

Nios II Flash Programmer

File Options Tools Help

Target hardware information

BSP Settings File name: D:\ALTERA\EBVstandard\software\EBVstd_bsp\settings.bsp

SOPC Information File name: D:\ALTERA\EBVstandard\standard.sopinfo

CPU to program flash: cpu

Hardware connection: Connection: USB-Blaster on localhost [USB-0] Device: EP3C40[EP4CE(30)40] Device ID: 1 CPU Instance ID: 0 CPU Name... Connections...

Flash: epcs_controller | Flash: cf_flash

Base address: 0xa05800 Memory span: 0x800

Master CPU: cpu :cp file system offset in BSP:

File Name	Conversion Type	Flash Offset	Add...	Remove
D:\ALTERA\EBVstandard\DBC3C40_standard_sof	SOF	0		

File generation command:

```
sof2flash --input="D:\ALTERA\EBVstandard\DBC3C40_standard_sof"
--output="D:\ALTERA\EBVstandard\software\EBVstd_bsp\Flash\DBC3C40_standard_epcs_controller.flash" --epcs
--verbose
```

File programming command:

```
--epcs --s1q=0xa06060 --id=0x0 --timestamp=1314102981 --device=1 --instance=0 --cable=USB-Blaster on
localhost [USB-0]! --program --verbose
```

Information | Problems | Processing

```
Info: *****
Info: Running Quartus II Convert_programming_file
Info: Command: quartus_cpf --no_banner --convert --device=EP3C128 --option=D:\ALTERA\EBVstandard\software\EBVstd_bsp\Flash\DBC3C40_standard_epcs_controller.opt D:\ALTERA\
Info: Quartus II Convert_programming_file was successful. 0 errors, 0 warnings
Info: Peak virtual memory: 115 megabytes
Info: Processing ended: Tue Aug 23 16:11:59 2011
Info: Elapsed time: 00:00:05
Info: Total CPU time (on all processors): 00:00:05
Info: *****
Info: Running Quartus II Convert_programming_file
Info: Command: quartus_cpf --no_banner --convert D:\ALTERA\EBVstandard\software\EBVstd_bsp\Flash\DBC3C40_standard_epcs_controller.pof D:\ALTERA\EBVstandard\software\EBV
Info: Quartus II Convert_programming_file was successful. 0 errors, 0 warnings
Info: Peak virtual memory: 109 megabytes
Info: Processing ended: Tue Aug 23 16:12:00 2011
Info: Elapsed time: 00:00:01
Info: Total CPU time (on all processors): 00:00:01
2011.08.23. 16:12:00 - (FINE) sof2flash: Done
Using cable "USB-Blaster [USB-0]", device 1, instance 0x00
Resetting and pausing target processor: OK
Reading System ID at address 0x00A06060: verified
Processor data bus width is 32 bits
Looking for EPCS registers at address 0x00A05800 (with 32bit alignment)
Initial values: 0001703A 04C00074 9801483A 9CFF804 983FFD1E 0000203A
Not here: reserved fields are non-zero
Looking for EPCS registers at address 0x00A05900 (with 32bit alignment)
Initial values: 92400237 4440100C 463FFD26 90000135 92400237 4440200C
Not here: reserved fields are non-zero
Looking for EPCS registers at address 0x00A05A00 (with 32bit alignment)
Initial values: 108001C4 10040DFA 002EE03A 003F9C06 002EE03A 003F9506
Not here: reserved fields are non-zero
Looking for EPCS registers at address 0x00A05B00 (with 32bit alignment)
Initial values: 00000000 00000000 00000000 00000000 00000000 00000000
Not here: SPI_SLAVE_SE has 0 valid bits (should be between 1 and 16)
Looking for EPCS registers at address 0x00A05C00 (with 32bit alignment)
Initial values: 00000000 00000000 00000260 00000000 00000000 00000001
Valid registers found
EPCS signature is 0x16
EPCS identifier is 0x202017
Using EPCS size information from section [EPCS-202017]
Device size is 8MByte (64Mbit)
Erase regions are:
offset 0: 128 x 64K
EPCS status is 0x00
: Checksumming existing contents
00000000 : Verifying existing contents
00000000 : Needs erase then program
00010000 : Verifying existing contents
00010000 : Needs erase then program
00020000 : Verifying existing contents
00020000 : Needs erase then program
00030000 : Verifying existing contents
00030000 : Needs erase then program
00040000 : Verifying existing contents
00040000 : Needs erase then program
00050000 : Verifying existing contents
00050000 : Needs erase then program
00060000 : Reading existing contents
00070000 : Reading existing contents
00080000 : Reading existing contents
00090000 : Reading existing contents
000A0000 : Reading existing contents
000B0000 : Reading existing contents
000C0000 : Reading existing contents
000D0000 : Reading existing contents
000E0000 : Reading existing contents
000F0000 : Reading existing contents
Checksummed/read 108B in 0.5s
00000000 ( 0%): Erasing
00010000 (16%): Erasing
00020000 (33%): Erasing
00030000 (50%): Erasing
00040000 (66%): Erasing
00050000 (83%): Erasing
Erased 384B in 2.9s (132.4kB/s)
00000000 ( 0%): Programming
00010000 (16%): Programming
00020000 (33%): Programming
00030000 (50%): Programming
00040000 (66%): Programming
00050000 (83%): Programming
Programmed 375KB +9KB in 8.6s (44.6KB/s)
Did not attempt to verify device contents
Leaving target processor paused
2011.08.23. 16:12:14 - (INFO) ef2flash: arg = --input=D:\ALTERA\EBVstandard\software\EBVstd\EBVstd.eif --output=D:\ALTERA\EBVstandard\software\EBVstd_bsp\Flash\EBVstd_cf_f
2011.08.23. 16:12:14 - (FINE) ef2flash: Starting
2011.08.23. 16:12:14 - (FINE) ef2flash: Done
Using cable "USB-Blaster [USB-0]", device 1, instance 0x00
Resetting and pausing target processor: OK
Reading System ID at address 0x00A06060: verified
Found CFI table in 16 bit mode
Raw CFI query table read from device:
0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
10: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
20: 51 00 52 00 59 00 02 00 00 40 00 00 00 00 00 Q,R,Y.....@....
30: 00 00 00 00 00 27 00 36 00 00 00 00 00 07 00 .....6.....
40: 07 00 0A 00 00 03 00 05 00 04 00 00 00 17 00 .....
CFI query table read from device:
10: 51 52 59 02 04 00 00 00 00 00 27 36 00 00 07 QR,Y,@.....6...
20: 07 0A 00 03 05 04 00 17 01 00 05 00 01 7F 00 .....
30: 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
CFI extended table read from device:
0: 50 52 49 31 33 08 02 04 01 04 00 00 01 85 C5 05 PR113.....
10: 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00 05 .....
Read autoselect code 0001-227E (in 16 bit mode)
No CFI override data for [FLASH-0001-227E]
Device size is 8MByte
Erase regions are:
offset 0: 128 x 64K
Device supports AMD style programming algorithm
Multi-byte programming with 32 byte buffer
Sector erase timeout is 16s
Word program timeout is 1ms
Buffer program timeout is 4ms
: Checksumming existing contents
00000000 : Checksum Failed - needs erase then program
00000000 : Reading existing contents
Checksummed/read 128B in 0.3s
00000000 ( 0%): Erasing
Erased 64B in 0.3s (213.3kB/s)
00000000 ( 0%): Programming
Programmed 53KB +11KB in 0.8s (80.0KB/s)
Device contents checksummed OK
Leaving target processor paused
```