Adesto_AT25SF081.txt file content:
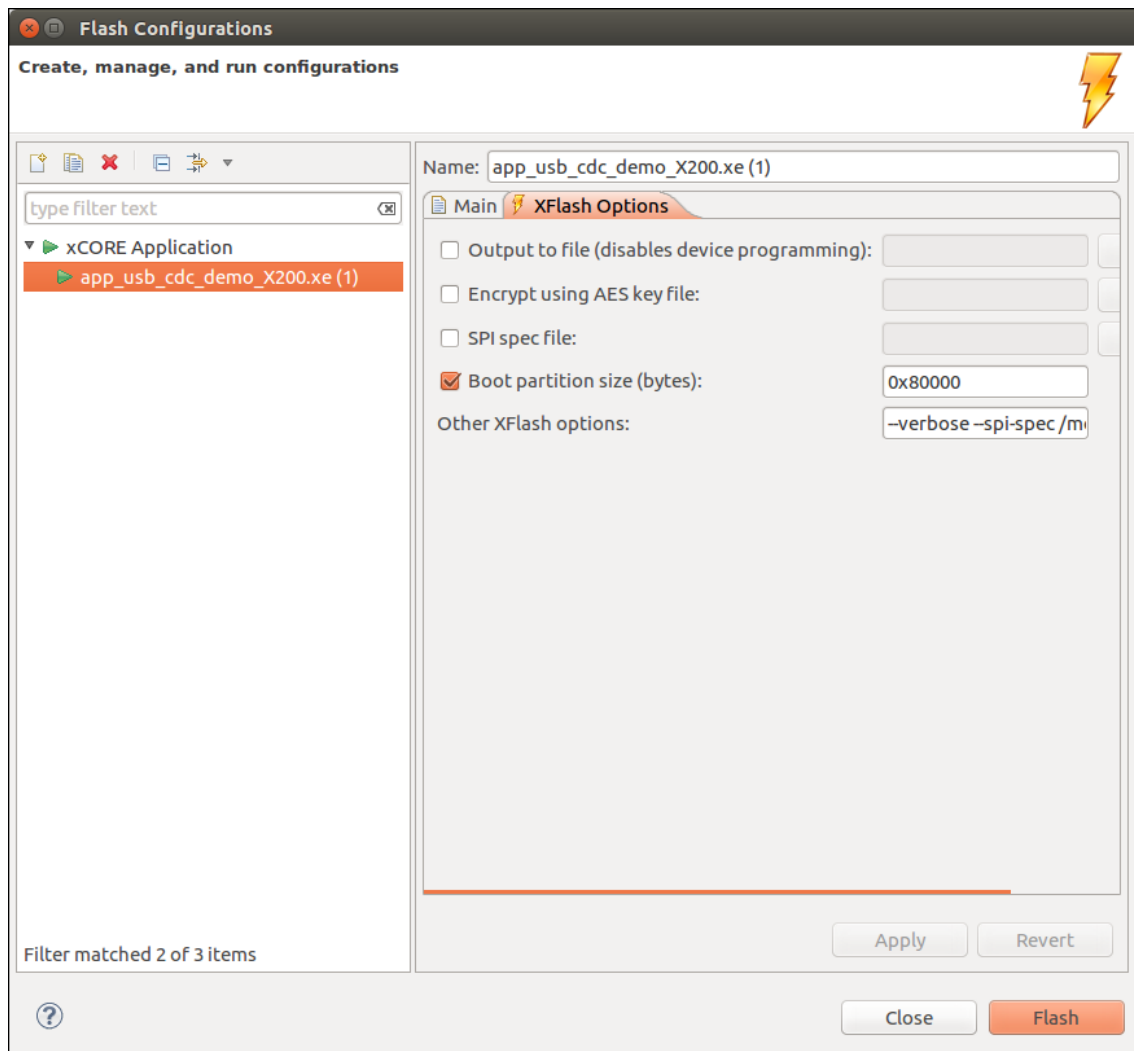
```
8,                          /* 1. libflash device ID */
256,                        /* 2. Page size */
2048,                       /* 3. Number of pages */
3,                          /* 4. Address size */
3,                          /* 5. Clock divider */
0x9f,                       /* 6. RDID cmd */
0,                          /* 7. RDID dummy bytes */
3,                          /* 8. RDID data size in bytes */
0x1F8501,                   /* 9. RDID manufacturer ID */
0x20,                       /* 10. SE cmd 0x20 */
4096,                       /* 11. SE full sector erase */
0x06,                       /* 12. WREN cmd 0x06 */
0x04,                       /* 13. WRDI cmd 0x04 */
PROT_TYPE_SR,               /* 14. Protection type */
{{0x0 ,0x0 },{0,0}},        /* 15. SR protect and unprotect cmds */
0x02,                       /* 16. PP cmd */
0xeb,                       /* 17. READ cmd */
1,                          /* 18. READ dummy bytes */
SECTOR_LAYOUT_REGULAR,      /* 19. Sector layout */
{4096,{0,{0}}},             /* 20. Sector sizes */
0x05,                       /* 21. RDSR cmd */
0x01,                       /* 22. WRSR cmd 0x01 */
0x01,                       /* 23. WIP bit mask */
```

Other Xflash options:

```
--verbose --spi-spec
/media/denis/SSD_256GB/BACKUP/EEZ/XMOS/Community_14.3.2/bin/Adesto_AT25SF081.txt
```

Flash operation results displayed in xTIMEcomposer console:

```
XFlash_Application found _start :40000 on Node 0
XFlash_Application found _DoSyscall :431c8 on Node 0
XFlash_Application found _DoException :400a4 on Node 0
XFlash_Application found _start :40000 on Node 0
XFlash_Application found _DoSyscall :40514 on Node 0
XFlash_Application found _DoException :400a4 on Node 0
XFlash_Application : Attempting to Compress Binary Data
libcompressor marker 1=186
libcompressor marker 2=83
libcompressor marker 3=158
libcompressor best marker length 3 2 2
libcompressor best marker length 3 2 3
libcompressor best marker length 3 2 4
libcompressor best marker length 4 2 4
libcompressor best marker length 5 2 4
libcompressor best marker length 6 2 4
libcompressor DoCompression_Compress took : 216ms
libcompressor compile command=xcc -nostartfiles -Xmapper --bootstyle=forsim -x
assembler-with-cpp "decompressor-3896629b" -x xn "target-xn-v0-3d1c5a34" -o
decompressor-7fe0cb76
```

```
libcompressor validating decompressor decompressor-7fe0cb76
libcompressor launching simulator decompressor-7fe0cb76 --disable-syscalls
--max-cycles 100000000
libcompressor simulator starting @0x40000
libcompressor simulator terminate @0x7ff58
libcompressor decompressor validated
XFlash_Application on Node : 0 compressed from : 14812 bytes to : 10432 bytes
(29.57%)
libcompressor marker 1=19
libcompressor marker 2=26
libcompressor marker 3=30
libcompressor best marker length 3 2 2
libcompressor best marker length 3 2 3
libcompressor best marker length 3 2 4
libcompressor best marker length 3 2 5
libcompressor best marker length 4 2 5
libcompressor DoCompression_Compress took : 5ms
libcompressor compile command=xcc -nostartfiles -Xmapper --bootstyle=forsim -x
assembler-with-cpp "decompressor-2804bf4d" -x xn "target-xn-v0-3d1c5a34" -o
decompressor-c6a96ed7
libcompressor validating decompressor decompressor-c6a96ed7
libcompressor launching simulator decompressor-c6a96ed7 --disable-syscalls
--max-cycles 100000000
libcompressor simulator starting @0x40000
libcompressor simulator terminate @0x7ff5a
libcompressor decompressor validated
XFlash_Application on Node : 0 compressed from : 1568 bytes to : 1308 bytes
(16.58%)
XFlash::DoXFlash
XFlash::DoImageProgramming
XFlash::GetDeviceInfo
XFlash_DeviceInfo::GetDeviceInfo_Hardware
XFlash_DeviceInfo::GetDeviceInfo_Hardware_IssueCompileCommand : xcc -Xmapper
--dontenablesodlinks -Xmapper --wnoXN -x xc "spiinfo-1a9eb841" -x xn "target-xn-
v0-3d1c5a34" -o "spiinfo-4bfe5879" -lquadflash -D xnPORT_SQI_CS0=PORT_SQI_CS -D
xnPORT_SQI_SCLK0=PORT_SQI_SCLK -D xnPORT_SQI_SIO0=PORT_SQI_SIO
XFlash_Utils::BuildRunCommand : xrun --io --adapter-id 45oxbX1B spiinfo-4bfe5879
Warning: F03098 XFlash::BuildFlashBinaryFile
XFlash_Builder_S2L::BuildStage2Loaders Factory
Stage2_Loader::Compile : xcc -Wno-bidirectional-buffered-port -Xmapper
--dontenablesodlinks -Xmapper --nochaninit -Xmapper --noinitialtidy -Xmapper
--image-base -Xmapper 0x40080 -Xmapper --image-size -Xmapper 0x3ff80 -Xmapper
--wno110 -Xmapper --wno226 -Xmapper --wnoXN -std=c99 -O2 -x xn "target-xn-v0-
3d1c5a34" -x xc s2l-n0-cfcfc795 -lstage2loader -lswitchsetup -lsqiaccess
-lquadspi -o s2l-n0-039e7cd5
Factory image and boot loader cannot be write-protected on flash device on node
0
xflash: Warning: F03148 --quad-spi-clock not given, using default 15.62MHz
Stage2Loader found _DoSyscall : 0x404c8 on Node 0
Stage2Loader found _DoException : 0x40124 on Node 0
Stage2_Loader : Attempting to Compress Binary Data
libcompressor marker 1=123
libcompressor marker 2=125
libcompressor marker 3=163
libcompressor best marker length 3 2 2
libcompressor best marker length 3 2 3
libcompressor best marker length 3 2 4
libcompressor best marker length 4 2 4
libcompressor best marker length 4 2 5
libcompressor DoCompression_Compress took : 26ms
```

```
libcompressor compile command=xcc -nostartfiles -Xmapper --bootstyle=forsim -x
assembler-with-cpp "decompressor-202ebb54" -x xn "target-xn-v0-3d1c5a34" -o
decompressor-45c8dd14
libcompressor validating decompressor decompressor-45c8dd14
libcompressor launching simulator decompressor-45c8dd14 --disable-syscalls
--max-cycles 100000000
libcompressor simulator starting @0x40000
libcompressor simulator terminate @0x7feda
libcompressor decompressor validated
Stage2_Loader on Node : 0 compressed from : 4872 bytes to : 3804 bytes (21.92%)
Stage2_SwitchSetup::Compile : xcc -c -march=xs2a -x assembler-with-cpp swstup-
n0v0-2e7eb038 -o swstup-n0v0-90eef87c
Stage2_SwitchSetup::Compile : xcc -nostartfiles -Wno-bidirectional-buffered-port
-Xmapper --first -Xmapper swstup-n0v0-90eef87c -Xmapper --dontenablesodlinks
-Xmapper --nochaninit -Xmapper --noinitialtidy -Xmapper --wno110 -Xmapper
--wno226 -Xmapper --wnoXN -std=c99 -O2 -x xn "target-xn-v0-3d1c5a34" -x xc
swstup-n0v0-6487ad4c -lswitchsetup -o swstup-n0v0-e168c184
XFlash_Builder_Image::BuildImages Factory
XFlash_Builder_Image::BuildImageTable
  master node = 0
    node = 0
XFlash_Builder_Image::BuildImageTable num cores for image table = 2
XFlash_Builder_Image::CalculateBufferSize Starting calculation
_total_image_size=0
XFlash_Builder_Image::CalculateBufferSize Add Image Header _total_image_size=34
XFlash_Builder_Image::CalculateBufferSize Add Switch Setup header
_total_image_size=3c
XFlash_Builder_Image::CalculateBufferSize Add Per Core header
_total_image_size=54
XFlash_Builder_Image::CalculateBufferSize_SwitchSetup _total_image_size=7ac
XFlash_Builder_Image::CalculateBufferSize_Application application size = 28c4
_total_image_size = 3070
XFlash_Builder_Image::CalculateBufferSize_Application application size = 520
_total_image_size = 3590
XFlash_Builder_Image::BuildImageTable allocated image buffer size = 3590
XFlash_Builder_Image::WriteBuffer_ImageHeader
XFlash_Builder_Image::WriteBuffer_SwitchSetup current switch setup table
offset : 34
XFlash_Builder_Image::WriteBuffer_SwitchSetup current application data offset :
54
XFlash_Builder_Image::WriteBuffer_SwitchSetup size : 754
XFlash_Builder_Image::WriteBuffer_SwitchSetup aligned_size : 758
XFlash_Builder_Image::WriteBuffer_SwitchSetup init_vec_shift : 0
XFlash_Builder_Image::WriteBuffer_Application
XFlash_Builder_Image::WriteBuffer_Application for node : 0
XFlash_Builder_Image::WriteBuffer_Application for core : 0
XFlash_Builder_Image::WriteBuffer_Application current core table offset : 3c
XFlash_Builder_Image::WriteBuffer_Application current application data offset :
7ac
XFlash_Builder_Image::WriteBuffer_Application size : 28c0
XFlash_Builder_Image::WriteBuffer_Application aligned_size : 28c4
XFlash_Builder_Image::WriteBuffer_Application init_vec_shift : 0
XFlash_Builder_Image::WriteBuffer_Application chan end : 80020002
XFlash_Builder_Image::WriteBuffer_Application for core : 1
XFlash_Builder_Image::WriteBuffer_Application current core table offset : 48
XFlash_Builder_Image::WriteBuffer_Application current application data offset :
3070
XFlash_Builder_Image::WriteBuffer_Application size : 51c
XFlash_Builder_Image::WriteBuffer_Application aligned_size : 520
XFlash_Builder_Image::WriteBuffer_Application init_vec_shift : 0
XFlash_Builder_Image::WriteBuffer_Application chan end : 80030002
XFlash_Builder_Image::WriteBuffer_CRC
```

```
XFlash_Builder_Binary::BuildBinary
XFlash_Builder_Binary::CalculateBufferSize_Factory
XFlash_Builder_Binary::CalculateBufferSize_Factory : Adding s2l size word (4)4
XFlash_Builder_Binary::CalculateBufferSize_Factory : Adding s2l app (f5c) f60
XFlash_Builder_Binary::CalculateBufferSize_Factory : Adding s2l crc (4)f64
XFlash_Builder_Binary::CalculateBufferSize_Factory : Adding factory app (3590)
44f4
XFlash_Builder_Binary::CalculateBufferSize_Factory : Adding sector padding (b0c)
5000
XFlash_Builder_Binary::CalculateBufferSize_Factory : First User Sector offset =
5000
XFlash_Builder_Binary::GetSearchLimitPadding : current size (5000) 0
XFlash_Builder_Binary::CalculateBufferSize_Data
XFlash_Builder_Binary::BuildBinary : Allocating buffer - 5000
XFlash_Builder_Binary::GetSearchLimitPadding : current size (5000) 0
XFlash_Builder_Binary::WriteBufferToBinary : flash_bin_node0
XFlash_Programmer_Program::DoProgram
XFlash_Programmer_Program::GenerateSource
XFlash_Programmer_Program::IssueCompileCommand :xcc -w -Xmapper
--dontenablesodlinks -O2 -lquadflash -x xc "fp-74d548f5" -x xn "target-xn-v0-
3d1c5a34" -D VERBOSE=1 -D MONITOR=1 -D ERASE_ALL_FIRST=1 -o "fp-b36c12d3"
XFlash_Utils::BuildRunCommand : xrun --io --adapter-id 45oxbX1B fp-b36c12d3
```


Site 0 has started.
Site 0 has type 008.
Site 0 write   0x00000000.
Site 0 verified 0x00000000.
Site 0 write   0x00000100.
Site 0 verified 0x00000100.
Site 0 write   0x00000200.
Site 0 verified 0x00000200.
Site 0 write   0x00000300.
Site 0 verified 0x00000300.
Site 0 write   0x00000400.
Site 0 verified 0x00000400.
Site 0 write   0x00000500.
Site 0 verified 0x00000500.
Site 0 write   0x00000600.
Site 0 verified 0x00000600.
Site 0 write   0x00000700.
Site 0 verified 0x00000700.
Site 0 write   0x00000800.
Site 0 verified 0x00000800.
Site 0 write   0x00000900.
Site 0 verified 0x00000900.
Site 0 write   0x00000a00.
Site 0 verified 0x00000a00.
Site 0 write   0x00000b00.
Site 0 verified 0x00000b00.
Site 0 write   0x00000c00.
Site 0 verified 0x00000c00.
Site 0 write   0x00000d00.
Site 0 verified 0x00000d00.
Site 0 write   0x00000e00.
Site 0 verified 0x00000e00.
Site 0 write   0x00000f00.
Site 0 verified 0x00000f00.
Site 0 write   0x00001000.
Site 0 verified 0x00001000.
Site 0 write   0x00001100.
Site 0 verified 0x00001100.
Site 0 write   0x00001200.


```
Site 0 verified 0x00001200.
Site 0 write    0x00001300.
Site 0 verified 0x00001300.
Site 0 write    0x00001400.
Site 0 verified 0x00001400.
Site 0 write    0x00001500.
Site 0 verified 0x00001500.
Site 0 write    0x00001600.
Site 0 verified 0x00001600.
Site 0 write    0x00001700.
Site 0 verified 0x00001700.
Site 0 write    0x00001800.
Site 0 verified 0x00001800.
Site 0 write    0x00001900.
Site 0 verified 0x00001900.
Site 0 write    0x00001a00.
Site 0 verified 0x00001a00.
Site 0 write    0x00001b00.
Site 0 verified 0x00001b00.
Site 0 write    0x00001c00.
Site 0 verified 0x00001c00.
Site 0 write    0x00001d00.
Site 0 verified 0x00001d00.
Site 0 write    0x00001e00.
Site 0 verified 0x00001e00.
Site 0 write    0x00001f00.
Site 0 verified 0x00001f00.
Site 0 write    0x00002000.
Site 0 verified 0x00002000.
Site 0 write    0x00002100.
Site 0 verified 0x00002100.
Site 0 write    0x00002200.
Site 0 verified 0x00002200.
Site 0 write    0x00002300.
Site 0 verified 0x00002300.
Site 0 write    0x00002400.
Site 0 verified 0x00002400.
Site 0 write    0x00002500.
Site 0 verified 0x00002500.
Site 0 write    0x00002600.
Site 0 verified 0x00002600.
Site 0 write    0x00002700.
Site 0 verified 0x00002700.
Site 0 write    0x00002800.
Site 0 verified 0x00002800.
Site 0 write    0x00002900.
Site 0 verified 0x00002900.
Site 0 write    0x00002a00.
Site 0 verified 0x00002a00.
Site 0 write    0x00002b00.
Site 0 verified 0x00002b00.
Site 0 write    0x00002c00.
Site 0 verified 0x00002c00.
Site 0 write    0x00002d00.
Site 0 verified 0x00002d00.
Site 0 write    0x00002e00.
Site 0 verified 0x00002e00.
Site 0 write    0x00002f00.
Site 0 verified 0x00002f00.
Site 0 write    0x00003000.
Site 0 verified 0x00003000.
Site 0 write    0x00003100.
```

```
Site 0 verified 0x00003100.
Site 0 write    0x00003200.
Site 0 verified 0x00003200.
Site 0 write    0x00003300.
Site 0 verified 0x00003300.
Site 0 write    0x00003400.
Site 0 verified 0x00003400.
Site 0 write    0x00003500.
Site 0 verified 0x00003500.
Site 0 write    0x00003600.
Site 0 verified 0x00003600.
Site 0 write    0x00003700.
Site 0 verified 0x00003700.
Site 0 write    0x00003800.
Site 0 verified 0x00003800.
Site 0 write    0x00003900.
Site 0 verified 0x00003900.
Site 0 write    0x00003a00.
Site 0 verified 0x00003a00.
Site 0 write    0x00003b00.
Site 0 verified 0x00003b00.
Site 0 write    0x00003c00.
Site 0 verified 0x00003c00.
Site 0 write    0x00003d00.
Site 0 verified 0x00003d00.
Site 0 write    0x00003e00.
Site 0 verified 0x00003e00.
Site 0 write    0x00003f00.
Site 0 verified 0x00003f00.
Site 0 write    0x00004000.
Site 0 verified 0x00004000.
Site 0 write    0x00004100.
Site 0 verified 0x00004100.
Site 0 write    0x00004200.
Site 0 verified 0x00004200.
Site 0 write    0x00004300.
Site 0 verified 0x00004300.
Site 0 write    0x00004400.
Site 0 verified 0x00004400.
Site 0 write    0x00004500.
Site 0 verified 0x00004500.
Site 0 write    0x00004600.
Site 0 verified 0x00004600.
Site 0 write    0x00004700.
Site 0 verified 0x00004700.
Site 0 write    0x00004800.
Site 0 verified 0x00004800.
Site 0 write    0x00004900.
Site 0 verified 0x00004900.
Site 0 write    0x00004a00.
Site 0 verified 0x00004a00.
Site 0 write    0x00004b00.
Site 0 verified 0x00004b00.
Site 0 write    0x00004c00.
Site 0 verified 0x00004c00.
Site 0 write    0x00004d00.
Site 0 verified 0x00004d00.
Site 0 write    0x00004e00.
Site 0 verified 0x00004e00.
Site 0 write    0x00004f00.
Site 0 verified 0x00004f00.
Site 0 has finished successfully.
```

```
XFlash_Programmer_Program::IssueResetCommand : xgdb --batch-silent --ex connect
--adapter-id 45oxbX1B --ex reset mode-pins nointerrupt --ex q
```