Fsimager Documentation

Files in directory

FILEDIR	Directory for files to be put in the image
FSIMAGER.EXE	Executable file
28F320J3.FFS	Intel flash file example
29LV800.FFS	AMD flash file example

Usage

FSIMAGER <flash file>

There are 2 example files in the directory that can be use for generating an image. Flash has to be defined according the flash spec. and also how SafeFLASH will be used.
Start creating an image, e.g.: FSIMAGER 29LV800.FFS

Flash file commands

Every line can contain an executable command, a comment, or an empty space.

Comment
: Use semicolon character to add a comment to the next command lines.

files <directory>
: Command to define the directory where files are

imagename <filename>
: What will be the flash image name

bigendian < 0 or 1 >
: Select Big-endian mode. True (1) or false (0).

split
: If this command is issued then the image will be split to blocks instead of creating one big image file. Blocks are written only when they which contain data that are different from 0xff-s.

flash <start block> <end block> <size>
: Define the flash physical parameters according to the flash's specification. Flash memories are divided into blocks. This command should define all the blocks with their sizes. This command may issue more than 1 times. See example in 29LV800.

EFFS definition commands

These commands have to be issued according to how SafeFLASH is set up on the target device. These parameters are the same as FS_FLASH structure on the low level flash driver. See more detailed description in SafeFLASH documentation. These parameters are:

f_maxblock <number of data blocks>
f_blocksize <size of data blocks>
f_sectorsize <used sector size>
f_sectorperblock <f_blocksize divided by f_sectorsize>
f_blockstart <where data blocks starts>
f_descsize <size of the descriptors>

f_cacheddescsize <used cache size from descriptor>
f_descblockstart <where descriptors starts>
f_descblockend <where descriptors are end>

Example of 29LV800.FFS

```
;Files and imagename definitions
files filedir
imagename timage.bin
bigendian 1

;no split into separates block
;split

;Setting up Flash memory physical
;29lv800BA
flash 0 0 0x4000
flash 1 1 0x2000
flash 2 2 0x2000
flash 3 3 0x8000
flash 4 18 0x10000

;Setting up SafeFLASH
f_maxblock 15
f_blocksize 0x10000
f_sectorsize 0x1000
f_sectorperblock 16
f_blockstart 4

f_descsize 8192
f_cacheddescsize 1024

f_descblockstart 1
f_descblockend 2
```