Using Impact in batch mode

1/Programming the FPGA volatile memory with a bit file

Launch the script with the command impact -batch script.txt

setmode -bscan setcable -p auto adddevice -p 1 -file main.bit program -p 1 quit

2/Programming the FPGA flash memory with a mcs file

Launch the script with the command impact -batch script.txt

setMode -bscan setCable -p auto addDevice -p 1 -file "./main.bit" attachflash -position 1 -spi "W25Q128FV" assignfiletoattachedflash -position 1 -file "./main.mcs" Program -p 1 -dataWidth 1 -spionly -e -v -loadfpga quit

note : -verify can be omitted to speed up the process.

3/Preparing the mcs file

Launch the script with the command impact -batch script.txt

setMode -pff setSubmode -pffbpi addPromDevice -p 1 -size 131072 -name 128M addDesign -version 0 -name 0 addDeviceChain -index 0 addDevice -p 1 -file main.bit

generate -format mcs -fillvalue FF -output main.mcs quit

4/Changing SPI bus width

In ISE in "Generate programming file" process properties.

| Category | Switch Name | Property Name | Value | ^ |
|---|-----------------------------|---------------------------------------|---------------|---|
| General Option Configuration Startup Option Readback Opti Encryption Op Suspend/Wake | -g ExtMasterCclk_divide: | Seture Excernar Master Clock Division | - V | |
| | -g SPI_buswidth: | Set SPI Configuration Bus Width | 1 🗸 | > |
| | -g TIMER_CFG: | Watenderg Timer Value | WAFFFF | |
| | | Place MultiBoot Settings into Bitst | | 4 |
| | Property display level: Adv | anced 🔽 🗹 Display switch names | Default | |

In Impact in flash properties or program batch.

Program -p 1 -dataWidth 1 -spionly -e -v -loadfpga quit