

AU200 の ROM 化

ROM 化のコマンドは AU50 と同様に .

```
write_cfgmem -force ¥
              -format mcs ¥
              -size 128 ¥
              -interface SPIx4 ¥
              -loadbit {up 0x01002000 "top.bit" } ¥
              -file "top.mcs"
```

で OK .

スクリプトで ROM に書き込む場合は , のように .

```
open_hw_manager
connect_hw_server -allow_non_jtag
open_hw_target
current_hw_device [get_hw_devices xcu200_0]
refresh_hw_device -update_hw_probes false [lindex [get_hw_devices xcu200_0] 0]

create_hw_cfgmem -hw_device [lindex [get_hw_devices xcu200_0] 0] [lindex [get_cfgmem_parts {mt25qu01
g-spi-x1_x2_x4}] 0]
set_property PROGRAM.BLANK_CHECK 0 [ get_property PROGRAM.HW_CFGMEM [lindex [get_hw_devices xcu200
_0] 0]]
set_property PROGRAM.ERASE 1 [ get_property PROGRAM.HW_CFGMEM [lindex [get_hw_devices xcu200_0] 0]]
set_property PROGRAM.CFG_PROGRAM 1 [ get_property PROGRAM.HW_CFGMEM [lindex [get_hw_devices xcu200
_0] 0]]
set_property PROGRAM.VERIFY 1 [ get_property PROGRAM.HW_CFGMEM [lindex [get_hw_devices xcu200_0] 0
]]
set_property PROGRAM.CHECKSUM 0 [ get_property PROGRAM.HW_CFGMEM [lindex [get_hw_devices xcu200_0]
0]]
refresh_hw_device [lindex [get_hw_devices xcu200_0] 0]

set_property PROGRAM.ADDRESS_RANGE {use_file} [ get_property PROGRAM.HW_CFGMEM [lindex
[get_hw_devices xcu200_0] 0]]
set_property PROGRAM.FILES [list "au200.mcs" ] [ get_property PROGRAM.HW_CFGMEM [lindex
[get_hw_devices xcu200_0] 0]]
set_property PROGRAM.PRM_FILE {} [ get_property PROGRAM.HW_CFGMEM [lindex [get_hw_devices xcu200_0]
0]]
set_property PROGRAM.UNUSED_PIN_TERMINATION {pull-none} [ get_property PROGRAM.HW_CFGMEM [lindex
[get_hw_devices xcu200_0] 0]]
set_property PROGRAM.BLANK_CHECK 0 [ get_property PROGRAM.HW_CFGMEM [lindex [get_hw_devices xcu200
_0] 0]]
set_property PROGRAM.ERASE 1 [ get_property PROGRAM.HW_CFGMEM [lindex [get_hw_devices xcu200_0] 0]]
set_property PROGRAM.CFG_PROGRAM 1 [ get_property PROGRAM.HW_CFGMEM [lindex [get_hw_devices xcu200
_0] 0]]
set_property PROGRAM.VERIFY 1 [ get_property PROGRAM.HW_CFGMEM [lindex [get_hw_devices xcu200_0] 0
]]
set_property PROGRAM.CHECKSUM 0 [ get_property PROGRAM.HW_CFGMEM [lindex [get_hw_devices xcu200_0]
0]]

startgroup
create_hw_bitstream -hw_device [lindex [get_hw_devices xcu200_0] 0] [get_property
PROGRAM.HW_CFGMEM_BITFILE [ lindex [get_hw_devices xcu200_0] 0]]
program_hw_devices [lindex [get_hw_devices xcu200_0] 0]
refresh_hw_device [lindex [get_hw_devices xcu200_0] 0]
program_hw_cfgmem -hw_cfgmem [ get_property PROGRAM.HW_CFGMEM [lindex [get_hw_devices xcu200_0] 0]]
endgroup

close_hw_target

quit
```

bit ファイル書くだけなら (環境変数 BITFILE でターゲットを指定するなら)

```
open_hw_manager
connect_hw_server -allow_non_jtag
open_hw_target
current_hw_device [get_hw_devices xcu200_0]
```

```
refresh_hw_device -update_hw_probes false [lindex [get_hw_devices xcu200_0] 0]  
set_property PROGRAM.FILE $::env(BITFILE) [get_hw_devices xcu200_0]  
program_hw_device [get_hw_devices xcu200_0]  
disconnect_hw_server localhost:3121  
close_hw_manager
```

とか .