Instructions for Sample Tcl Scripts

David Berrazueta & Byron Navas

March 6, 2025

1 IP-core Creation

1. Run *Vivado HLS Command Prompt*

2. Change the Command Prompt's current working directory to the directory in which the *Sample_Tcl_Scripts* folder is located: "`cd .../Sample_Tcl_Scripts`"

3. Execute the command: "`vivado_hls -f Vivado_HLS_script.tcl`" to run our sample Tcl script

4. Select Option 1 to replicate the *Matrixmul* design

5. Wait until the process ends. You will see the message "*The process has finished successfully*"

2 SoC Creation

1. Run *Vivado Design Suite GUI*

2. Change the Tcl Console's current working directory to the directory in which the *Matrixmul* folder is located: "`cd .../Sample_Tcl_Scripts/Matrixmul`"

3. Execute the command: "`source script_SoC_pre.tcl`" to run our sample Tcl script

4. Wait until this process ends. The custom SoC will be created automatically.