

Memo: Xilinx 10.1 EDK/ISE/SG Batch File Creation for use with CASPER DSP Libraries

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After installation of Xilinx EDK/ISE/SG 10.1 and a supported version of Matlab & Simulink there has been a certain amount of confusion creating a workable batch file that calls the the CASPER DSP libraries. Calling the toolflow as we have done in the past causes Matlab to crash with no errors when trying to simulate. This is remedied by explicitly instantiating System Generator at run time. If you installed 10.1 on your C drive in the default directory a file named startsg.bat is created in:

C:\10.1\DSP.Tools\common\bin

This file will open Matlab/Simulink and the Xilinx System Generator and tools specified by your global variables. To call the casper, bee, and xps libraries you can use the Matlab command 'addpath' in a startup.m file in this same directory. So for example, in my working directory I have the batch file MatXSG101.bat the looks something like this:

```
set XILINX=C:\10.1\ISE
set XILINX=C:\10.1\EDK
set MATLAB=C:\Matlab\R2007b
set XILINXD_LICENSE_FILE=xxxx@license_server.edu
set MGLS_LICENSE_FILE=yyyy@license_server.edu
set SYNPLICITY_LICENSE_FILE=zzzz@license_server.edu
set MLM_LICENSE_FILE=www@license_server.edu
set PATH=%XILINX%\bin\nt;%XILINX%\bin\;
%XILINX%\lib \nt;%XILINX_EDK%\bin\nt;%PATH%

set SHELLOPTS=igncr
set MLIB_ROOT=\some\working\directory\mlib.devel_x_x
set BEE_XPS_LIB_PATH=\someother\working\directory\xps.lib
C:
cd \xilinx\10.1\DSP.Tools\common\bin
startsg.bat simulink
```