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Export ASE_WORKDIR export variables ASE_WORKDIR = {Path to simulation mentioned in GREEN PRINT ASE} ./Application makes the following changes to the default simulation settings: * Turn off wave initials: Check rtl provider suggestions for turning off wave format results. In some cases, it is possible to create a wave for a specific modular hierarchy. * Turn off display notifications by ENABLE_CL_VIEW = 0 in ase.cfg. To create a random CCI-P transaction for each run, modify the ASE, \$ASE_SRCDIR/rtl/platform.vh latency model. Restriction * LATRANGE defines a minimum/maximum pair: 'defines X_LATRANGE minutes, maximum Minimum and maximum values the minimum and maximum number of cycles for AFU return responses. Simulation assigned to random latency transactions in range (minimum, maximum). The greater the difference between (minimum, maximum), the greater the standard deviation of latency for a given type of transaction. You can assign different values (minimum, maximum) to different types of transactions. Note Latency values are specified for simulation only for testing. They may not accurately represent the true lag of your system hardware. / * * Latency model * Encrypted as minimal, maximum drag * ----- * RDLINELATRANGE: ReadLine turnaround time * WRLINELATRANGE : WriteLine turnaround time * UMSG_LATRANGE UMSG_START2DATA_LATRANGE: Break turnaround time * LAT_UNDEFINED: 15 MMIO_LATENCY 'RDLINELATRANGE 20,118' identified RDLINELATRANGE 20,118' WRLINELATRANGE 20118' identified WRLINELATRANGE 20,118' identified UMSG_START2HINT_LATRANGE 39.41' UMSG_HINT2DATA_LATRANGE 41.45' 82.85' UMSG_START2DATA_LATRANGE definition INTR_LATRANGE 10.15' defines LAT_UNDEFINED 300' definition RDWR_VL_LATRANGE 20,118' RDWR_VH_LATRANGE The 140,180' definition ASE_MAX_LATENCY 300 ASE includes a CCI-P protocol inspector, \$ASE_SRCDIR/rtl/ccip_checker.sv. Use this module to verify CCI-P compliance. The checker sniffs out transactions, conditions and title settings and flags warnings or errors. Identify multiple layers of problems in hw/ccip_sniffer.sv. ASE records all alerts and \$ASE_WORKDIR/ccip_warnings_and_errors.txt. Memory error in transaction: Memory error of the highest severity. The simulation stops immediately. ASE records memory errors, including times stamps, \$ASE_WORKDIR/ase_memory_error.log. Protocol warning: The warning does not stop the simulation. ASE records the warning in \$ASE_WORKDIR/ccip_warning_and_errors.txt. ASE can also log memory hazards (RAW, WAR and WAW hazards). A guide to CCI-P systems is available in a separate Basic Building Block repository in the sample/tree guide. For the first example, 01_hello_world is afu_sim_setup flow described above. Get started with the guide's README file for configuration and implementation instructions. For example define a set of sources and go through the process of creating an ASE tree, running the simulation and connecting it to a host program. The ASE Makefile template includes multiple targets and switches. Build your own compilation script for more complex simulations. For a complete list of supported versions, see System requirements. Complete the following steps to compile ASE Simulator: Compile ase's software objects into a library file * First compile the software components located in the ase/sw/folder into a software library. Note SIM_SIDE as a compiled macro when compiling ASE simulation objects. The SIM_SIDE is for simulation software, not the OPAE ASE software library. Compile ASE SystemVerilog files that are in the ase/rtl/folder. * Compile ASE RTL platform components for integrated FPGA platform or Intel PAC into simulation database*. For PACs, compile the embedded memory interface (EMIF) memory controller* model into the ASE environment. If the simulation requires intel library FPGA Gate. compile * the model into the ASE environment. Compile AFU components into the ASE environment. * Use RTL simulation software tools to compile AFU components. Use synopsys or mentor utilities to compile VHDL or SystemVerilog components. Describe all goals default construction standards, build simulators in VCS-MX title printing version and opening environmental test sw. build build ase/sw/components into a software library. SIM_SIDE switch builds simulation software components to help Print help information vcs_build Summary VCS-MX model build flow questa_build Mentor Graphics Modelsim-SE / Qu estaSim template build flow sim Start the ASE Simulator wave Open selected RTL waveform viewer clean Clean build. simulation, and log file distclean clean distribution - remove the configuration file AFU Makefile target describes the default value VCS_HOME Synopsys VCS-MX install path Specific tool installation MTL_HOME Mentor installation path Install specific tool QUARTUS_HOME Intel Quartus Prime Pro install path specific tool installation ASE_PLATFORM Platform conversion selection : Specify either tight-couple d FPGA or FPGA programming to speed up cards using FPGA_PLATFORM_M_INTG_XEON and FPGA_PLATFORM_M_DISCRETE, respectively FPGA_PLATFORM_INTG_XEON SIMULATOR Simulator Key to the VCS or QUESTA VCS ASE_SRCDIR ASE source source current source path location ASE_WORKDIR The location where THE ASE runs, typically \$ASE_SRCDIR/Working Environment field-spec ific performs work path simulating library compilation work location "ASE_DISABLE_LOGGER" 'Switch to disable logger build 0"ASE_DISABLE_CHECKER" ' Switch to disable test build warning : Disable this checker can have side effects on the correct protocol 0 GLS_SIM Allows port simulation build 1 library GLS_VERILOG_OPT allows intel port simulation Quartus EDA simulates path library ASE_CONFIG ASE Run-time file configuration (description 'here <#ase-ru ntime-configuration ation-options> ; ') \$ASE_SRCDIR/ase.e.cfg ASE_SCRIPT ASE Receding Script Path ASE_SRCDIR/ase.e_regress.sh TIMESCALE Simulator timescale 1ps/1ps ASEHW_FILE_LIST ASE RTL File list Refer to ase/Makefile ASE_MEM_FILE_LIST ASE RTL file list for programmable FPGA acceleration card mode ASE memory Reference ase/Makefile ASE_INCDIR ASE Including ase/Makefile reference directory path ASE_TOP ASE top-level (unchanged) ase_top CC_OPT ASE Software Library compiler builder build option "-g -m64 -fPIC -D SIM_SIDE = 1 -l w / -D SIMULATOR= VCS -D \$(ASE_PLATFORM) -Wall -I \$(VCS_HOME)/include/" ASE_LD_SWITCHES ASE Software Linker switches "-lrt -lthread -lSNPS_VHDLAN_OPT Synopsys VCS-MX VHDL compile options (add extra options to ase_sources.mk) Reference ase/Makefile SNPS_VLOGAN_OPT Synopsys VCS-MX SystemVerilog compile options (add additional options to ase_sources.mk) Refer to the ase/Makefile SNPS_VCS_OPT Synopsys VCS-MX option to build simulation implementation (add additional options to ase_sources.mk) Refer to ase/Makefile SNPS_SIM_OPT Synopsys VCS-MX Simulation Options (more additional options are possible to mk) Refer to ase/Makefile MENT_VCOM_OPT Mentor Modelsim-SE/Qu estasim VHDL optional compilation (more more to ase_sources.mk) Refer to ase /Makefile MENT_VLOG_OPT Mentor Modelsim-SE/Qu estasim (System)Verilog g compile options (add extra options to ase_sources.mk) Refer to ase/Makefile MENT_VSIM_OPT Mentor Modelsim-SE/Qu estasim VHDL simulation options (add extra options to ase_sources.mk) Reference ase/Makefile DUT_VLOG_SRC_LIST Point to a text file listed AFU (System)Verilog file (usually vlog_files.list) User created DUT_VHDL_SRC_LIST Point to a Text files list VHDL AFU files (usually vhdl_files.list) Users create DUT_INCDIR AFU lists consist of folders spaced by a '+' (usually in ase_sources.mk) The user creates an ASE configuration file that configures simulated behavior. An example configuration scenario is available at ase/ase.cfg Default name conversion describes ASE_MODE 1 ASE mode with the following valid values: 1: Standard Server-Client Mode2: Simulation stopped after clock ASE_TIMEOUT 3: Software turns off simulation when client application releases session 4: Call mode receding> = 5 : Ignore (back "ASE_MODE = 1") ASE_TIMEOUT 50000 (only if ASE_MODE = 2) The watchdog timer turns off the simulation after the ASE_TIMEOUT clock of the CCI-P interface does not work. ASE_NUM_TESTS 500 (only ASE_MODE = 4) The number of tests in rehabilitation mode. If set incorrectly, the simulator may exit before maturity or delay waiting for the experiment to begin. ENABLE_REUSE_D 1 When set to 1, reuse the simulated seed, so that the CCI-P transaction is play back to the previous address. When set to 0, get a new seed. ASE_SEED 1234 (only if ENABLE_REUSE_SEED = 1) ase seeds set, activated when ENABLE_REUSE_SEED is set to 1, otherwise the simulator uses a different seed. At the end of the simulation, ASE scores the current seed \$ASE_WORKDIR/ase_seed.txt. ENABLE_CL_VIEW 1 ASE print all CCI-P transactions. When running a long simulation, setting ENABLE_CL_VIEW to 0 can reduce simulation time. PHYS_MEMORY_AVAILABLE_GB 32 Limit power generator to address ase specified memory range. ASE provides the following three levels to record verbosity messages. By default, these messages print into stdout: * ASE_INFO: Print the required information message needed to determine the activity. * ASE_ERR: Print the error message during operation. * ASE_MSG: Print the general message that says the checkpoint in ASE. Prevent these messages by setting the environment variable ASE_LOG to 0. The following command prevents category ASE_MSG: \$ASE_LOG = 0 LD_PRELOAD = libopae-c-ase.jhelo.fpga You cannot prevent warnings and errors. The following list of ase errors and warnings is not comprehensive: the problem observes the next step or all transactions are not seen or the simulation ends earlier than expected. ase simulation inactivity is too short for applications using simulated cases success in ASE. If using ASE_MODE = 2 (Daemon with timeout), in ase.cfg ase.cfg increase your ASE_TIMEOUT or disable ASE_TIMEOUT. ase simulation build errors - compiling, or linking GCC versions may not be too old. In the ase folder try the following command \$ sw_build ase build correctly with GCC 4.8.5 or higher. Use ase/scripts/env_check.sh to identify problems. VCS-MX summaries dump stacks while compiling or running possible corruption of compiled objects or problems with increased compilation. Clean the ASE environment using \$ cleaning If this command is unsuccessful, clean the distribution with \$/distclean.sh rebuild the simulation. ERROR: Too many files open Through the process of running the ASE simulation are not clean and may have left behind open IPC instances. Use \$ASE_SRCDIR/scripts/pc_clean.py to clean IPC versions. Check that system requirements have been met. If the problem continues, increase the resource limit for your Linux distribution. \$ASE_WORKDIR variable environment was not set up application could not find a valid simulation session Follow the print steps when the ASE simulation started. These instructions are in green text. .ase_timestamp can open at <#DIRECTOR> ; The simulator may not have started yet. Note that at the start, simulated prints: Ready for \$ASE_Workdir simulations may not be set up correctly. Check the ASE_WORKDIR variables. "\$ echo \$ASE_WORKDIR" Wait for the simulation to print: "Ready for simulation' ase_sources.mk: No file or ASE directory Environment has not been created. Create an AFU RTL list (vlog_files.list and ase_sources.mk). You can use ase/scripts/generate_ase_environment.pyt o create these files. An ASE case is probably still running in the current folder. The ASE simulation is running in the \$ASE_WORKDIR. If the simulation process is unusable or unconnectable, use ase/scripts/pc_clean.py scripts to clean up temporary simulated files using: \$ cleaning. Then rebuild the simulation. Change document version 2019.04.22 Update to list support for Intel FPGA PAC for Stratix 10 FPGA. 2018.04.16 Make the following changes: * Added etup script afu_sim_s read the file containing the list of RTL sources and built an ASE tree for compilation and simulation. * Add/platform s/script/rtl_src_conf ig script that maps a simple text file containing a list of RTL source files to an ASE configuration on. * Updated figures to show available hardware in Intel PAC with Arria® 10 GX FPGA. © copyright 2017 Intel Corporation. Built with Sy sing by using a theme provided by Read The Document. Docs. <#DIRECTOR> ;

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