

XT2000 Xtensa® Microprocessor Emulation Kit

Overview

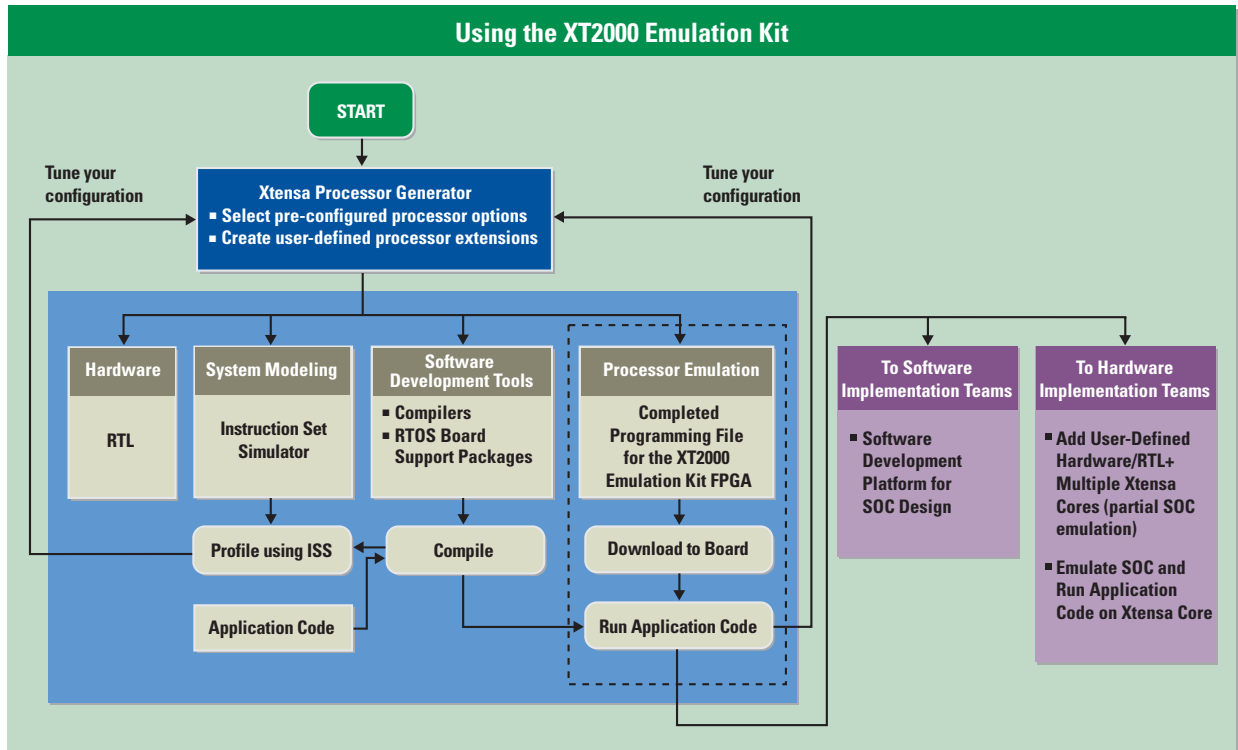
Tensilica®'s XT2000 Emulation Kit is a comprehensive development tool that uses a programmable logic device to emulate your Xtensa processor configuration. The emulation kit enables the developer to evaluate various processor configuration options and to initiate

software development and debug early in the SOC design cycle. System designers can specify, implement and debug a new processor configuration, including designer-defined instructions, in just a matter of hours.



XT2000 Emulation Kit Contents	Features	Metrics
<ul style="list-style-type: none"> ▪ XT2000 emulation board ▪ Power supply ▪ Macraigor Systems Wiggler interface connector ▪ CD-ROM with software ▪ User's Guide 	Processor Host Emulation Speed	XT2000-A: 15MHz - 20MHz XT2000-X: 20MHz - 33MHz
	SDRAM	256MB
	EPROM	4MB
	Flash	32MB
	Sync SRAM	2MB
	SRAM	1MB
	Instruction Cache/Data Cache + Instruction/Data RAM Emulation	Up to 54KB
	Ports	3 PCI slots, Compact PCI, 10 base T Ethernet, 2 UARTS, Expansion/daughter card connectors, LED Display
	On Board Bus	Xtensa generic bus (BIF)
	Debug Support	Xtensa OCD port and Trace port
Operating System Support	VxWorks, Nucleus-Plus	

XT2000 Xtensa® Microprocessor Emulation Kit



■ Tensilica supported. Fully automated XT2000 user model ■ User supported. Potential use of XT2000 Emulation Kit

Companion Tools Required

- Programming cable and programming software for the appropriate FPGA technology
- EPROM programmer to program the software boot image (optional)

Operating System Support

BootROM for WindRiver® System's VxWorks® or Accelerated Technology, Inc.'s Nucleus RTOS is available for the XT2000 Emulation Kit. (Use the Xtensa Processor Generator to download proper RTOS vendor licensing information).

Emulation versus Simulation Speed Comparison

Tools	Processor cycles/second
HDL Simulation*	2K to 10K
Instruction Set Simulation*	600K to 1M
XT2000 Emulation	15M to 33M

* HDL and ISS simulation speed is dependant on computer used

To order the XT2000 Emulation Kit, contact your local Tensilica sales office or authorized distributor. Tensilica offers two emulation kit versions. One is based on Altera technology and the other is based on Xilinx technology. Please specify product code XT2KA-V or XT2KX-V when ordering.



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