



SmartModel Library Supported Simulators and Platforms

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1

Supported Simulators and Platforms

Introduction

This document contains information about the simulators and platforms supported by the SmartModel Library, all shown in [Table 1 on page 4](#).

For general information about SmartModel Library documentation, or to navigate to a different online document, refer to the [Guide to SmartModel Documentation](#).

For more information on using VERA, including simulator and platform support, refer to the *VERA User Guide*.



Note

All support for Sun SunOS and DEC Alpha Digital UNIX ended on September 1, 2000

[Table 2 on page 8](#) provides a key for reading the support matrix table.

Table 1: Supported Simulators and Platforms

Platform Simulator	HP700 HP-UX 10.20 11.0/32-bit	Sun Solaris 2.6 2.7/32-bit 2.8/32-bit	IBMRS AIX 4.3.2/32-bit	Intel NT 4.0	Red Hat Linux 6.2
VHDL Simulators Key: Smart =SmartModels, Flex =FlexModels, N/A=Not Available					
Synopsys Scirocco (Supported versions of Scirocco are noted in each platform's column.)	Smart Flex All Modes (Scirocco 2000.12-1 and above)	Smart Flex All Modes (Scirocco 2000.12-1 and above)	N/A	N/A	Smart Flex All Modes (Scirocco 2000.12-1 and above)
Synopsys Cyclone 2000.02 and above	Smart Flex C Only	Smart Flex C Only	N/A	N/A	N/A
Synopsys VSS 3.5a and above	Smart Flex HDL Control	Smart Flex HDL Control	N/A	Smart Flex C Only	N/A
Cadence Leapfrog 2.3 and above	Smart Flex C Only	Smart Flex C Only	Smart	N/A	N/A
Cadence NC-VHDL 3.0 and above	Smart Flex All Modes	Smart Flex All Modes	N/A	Smart Flex HDL Control	N/A
Mentor Graphics QuickHDL B.3 and above	Smart Flex C Only	Smart Flex C Only	N/A	N/A	N/A
ViewLogic Fusion 2.3 and above/ Speedwave	Smart Flex C Only	Smart Flex C Only	N/A	Smart Flex C Only	N/A
VeriBest VHDL SysSim	N/A	N/A	N/A	Smart Flex C Only	N/A
MTI VHDL ^a (ModelSim) (If there is a limitation, supported versions of MTI VHDL are noted in a platform's column.)	Smart Flex All Modes	Smart Flex All Modes	Smart Flex All Modes	Smart Flex HDL Control	Smart Flex All Modes (MTI VHDL 5.4d and above)

Table 1: Supported Simulators and Platforms (Continued)

Platform Simulator	HP700 HP-UX 10.20 11.0/32-bit	Sun Solaris 2.6 2.7/32-bit 2.8/32-bit	IBMRS AIX 4.3.2/32-bit	Intel NT 4.0	Red Hat Linux 6.2
IKOS Voyager 2.32 and above	Smart Flex C Only	Smart Flex C Only	Smart	N/A	N/A
Verilog Simulators Key: Smart =SmartModels, Flex =FlexModels, N/A=Not Available					
Synopsys VCS 3.1.4 and above (Supported versions of VCS are noted in each platform's column.)	Smart Flex All Modes (VCS 3.1.4 and above) ^b	Smart Flex All Modes (VCS 3.1.4 and above)	Smart Flex All Modes (VCS 3.1.4 and above)	Smart Flex HDL Control (VCS 3.1.4 and above)	Smart Flex All Modes (VCS 5.2 and above)
Cadence Verilog-XL 2.3 and above (via LMTV) ^c	Smart Flex All Modes	Smart Flex All Modes	Smart	Smart Flex HDL Control	Smart Flex All Modes
Cadence NC-Verilog 1.1 and above (via LMTV)	Smart Flex All Modes	Smart Flex All Modes	Smart	Smart Flex HDL Control	N/A
MTI Verilog (ModelSim) 5.1b and above (via LMTV) (If there is a limitation, supported versions of MTI Verilog are noted in a platform's column.)	Smart Flex All Modes	Smart Flex All Modes	Smart Flex All Modes	Smart Flex HDL Control	Smart Flex All Modes (MTI Verilog 5.4d and above)
ViewLogic Fusion 2.3 and above/ VCS	Smart Flex C Only	Smart Flex C Only	N/A	Smart Flex C Only	N/A
Simucad Silos III (via LMTV)	N/A	N/A	N/A	Smart Flex C Only	N/A
VeriBest Verilog SysSim	N/A	N/A	N/A	Smart Flex C Only	N/A

Table 1: Supported Simulators and Platforms (Continued)

Platform Simulator	HP700 HP-UX 10.20 11.0/32-bit	Sun Solaris 2.6 2.7/32-bit 2.8/32-bit	IBMRS AIX 4.3.2/32-bit	Intel NT 4.0	Red Hat Linux 6.2
Summit Design Visual VerilogDrive	Smart Flex C Only	Smart Flex C Only	N/A	N/A	N/A
Avant! Polaris 2.0 and above	Smart Flex C Only	Smart Flex C Only	N/A	N/A	N/A
Other Simulators	Key: Smart =SmartModels, Flex =FlexModels, N/A=Not Available				
Analogy Saber/ModelSim Cosimulation Interface ^d	Smart Flex C Only	Smart Flex C Only	Smart	N/A	N/A
AT&T ATTSIM 2.0 and above	N/A	Smart Flex C Only	Smart	N/A	N/A
Cadence Affirma Coexecution Simulator	Smart Flex C Only	Smart Flex C Only	Smart	N/A	N/A
Cadence OpenModeler (Rapidsim) 1.1 and above	Smart Flex C Only	Smart Flex C Only	Smart	N/A	N/A
ViewLogic Fusion 2.3 and above/ ViewSim	Smart Flex C Only	Smart Flex C Only	N/A	Smart Flex C Only	N/A
IBM AUSSIM V1R1 and above	N/A	N/A	Smart	N/A	N/A
IKOS Voyager FS 2.0 and above ^e	Smart	N/A	N/A	N/A	N/A
IKOS Gemini ^f	Smart Flex C Only	Smart Flex C Only	N/A	N/A	N/A

Table 1: Supported Simulators and Platforms (Continued)

Platform Simulator	HP700 HP-UX 10.20 11.0/32-bit	Sun Solaris 2.6 2.7/32-bit 2.8/32-bit	IBMRS AIX 4.3.2/32-bit	Intel NT 4.0	Red Hat Linux 6.2
MGC QuickSim II B.3 and above	Smart Flex C Only	Smart Flex C Only	N/A	Smart Flex C Only	N/A
MGC QuickFault II B.1 with patch 301 and above	Smart	Smart	N/A	N/A	N/A
Summit Design Visual HDL 5.0 and above	Smart Flex C Only	Smart Flex C Only	N/A	N/A	N/A
Teradyne LASAR 6.6 and above ^g	Smart Flex C Only	Smart Flex C Only	Smart	N/A	N/A
VEDA Vulcan 2.1 and above	Smart Flex C Only	Smart Flex C Only	Smart	N/A	N/A
VEDA VerdictFault 4.0 and above	Smart	Smart	N/A	N/A	N/A
VEDA SysHILO 4.5 and above	Smart Flex C Only	Smart Flex C Only	Smart	N/A	N/A

- a. ModelSim VHDL PE (Personal Edition) does not have a SmartModel interface.
- b. Customers using VCS 5.2.1 or VCS 6.0 on HP-UX 11.0 should contact vc_support@synopsys.com, or call 1-800-VERILOG for assistance.
- c. LMTV stands for the Logic Modeling To Verilog interface.
- d. SmartModel access to the Analogy Saber/ModelSim cosimulation interface is through ModelSim.
- e. IKOS Voyager FS is a fault analysis simulator.
- f. IKOS Gemini connects to SmartModels via the Cadence Verilog-XL or Synopsys VCS simulators.
- g. Teradyne LASAR v6.60 and up supports logic simulation, fault analysis, and min-max timing analysis.

Table 2: Key for Supported Simulators and Platforms Table

Mode	Description
Flex All Modes	You can use FlexModels with C Command Mode, HDL Control, VERA Control, or some combination of these. C Command Mode applies only to simulators with custom FlexModel integration. For more information refer to the section “ FlexModel Command Modes ,” found in the <i>FlexModel User’s Manual</i> .
Flex HDL Control	You can use FlexModels with C Command Mode, HDL Control, or some combination of these.
Flex C Only	You can use FlexModels with C-only Command Mode. C-only Command Mode allows you to use a C testbench when you use FlexModels on SWIFT simulators with standard FlexModel integrations. For more information on using FlexModels with C-only Command Mode, refer to the section “ Instantiating FlexModels with C-only Command Mode ,” found in the <i>Simulator Configuration Guide for Synopsys Models</i> manual.