



SmartModel Library Supported Simulators and Platforms

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Printed in the U.S.A.

1

Supported Simulators and Platforms

Introduction

This document contains information about the simulators and platforms supported by the SmartModel Library, all shown in [Table 2 on page 6](#). To understand what model capabilities are available on any supported simulator and platform combination, see the key in [Table 1](#). For general information about SmartModel Library documentation, or to navigate to a different online document, see to the [Guide to SmartModel Documentation](#). For more information on using VERA, including simulator and platform support, see the *VERA User Guide*.

Table 1: Key for Supported Platforms and Simulators Table

Mode	Usage
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, see the section on “ FlexModel Command Modes ,” 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. Does not include Vera control.
Flex HDL Control From System C	You can use FlexModels with HDL control from a System C testbench.
Flex C Only	You can use FlexModels with C-only Command Mode, which 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, see the section on “ Instantiating FlexModels with C-only Command Mode ,” in the <i>Simulator Configuration Guide for Synopsys Models</i> manual.

Note the following:

- ModelSim VHDL PE (Personal Edition) does not have a SmartModel interface.
- LMTV stands for the Logic Models To Verilog interface.
- SmartModel access to the Analogy Saber/ModelSim cosimulation interface is through ModelSim.
- IKOS Voyager FS is a fault analysis simulator. IKOS Gemini connects to SmartModels via the Cadence Verilog-XL or Synopsys VCS simulators.

Critical Notes

- No models are supported on the Microsoft Windows NT operating system.
- No models are supported on the HP-UX 10.20 operating system.
- No models are supported on the Sun Solaris 2.6 operating system.
- Save and Restore for the NC-Verilog simulator is not supported on any platform.
- Vera control is not supported on IBM AIX platforms, or on any 64-bit simulator running on an HP-UX 64-bit system.
- All support has been dropped for the Verilog-XL simulator.
- Cadence's NC-VHDL simulator does not support on any platform C-Flex based FlexModels when the control language is Vera. Cadence is aware of the problem and plans a future fix.

Links to Simulator Vendor Support Pages

Following are links to various simulator vendor support pages.

Synopsys

http://www.synopsys.com/products/sw_platform.html

Cadence

http://www.cadence.com/support/supported_hardware_platforms_matrix32.html

http://www.cadence.com/support/supported_hardware_platforms_matrix64.html

Mentor Graphics

http://www.mentor.com/supportnet/spt_configs/

Model Technology

<http://www.model.com/products/default.asp>

http://www.model.com/products/pdf/se_start.pdf

Hewlett Packard (HP) Supported Simulators and Platforms

Table 2: HP Supported Simulators and Platforms

Platform Simulator	HP700 HP-UX 11.0/32-bit	HP64 HP-UX 11.0/64-bit
VHDL Simulators	Key: Smart =SmartModels, Flex =FlexModels, N/A=Not Available	
Synopsys Scirocco 2002.06 and above	Smart Flex All Modes	N/A
Cadence NC-VHDL 3.3 and above	Smart Flex All Modes No Vera support for C-Flex Based Models	Smart Flex HDL Control Requires NC-VHDL 4.1s014
Mentor Graphics QuickHDL B.3 and above	Smart Flex C Only	N/A
ViewLogic Fusion 2.3 and above/ Speedwave	Smart Flex C Only	N/A
MTI VHDL (ModelSim) Ver. 5.6d and above	Smart Flex All Modes	Smart Flex HDL Control
IKOS Voyager 2.32 and above.	Smart Flex C Only	N/A
Verilog Simulators	Key: Smart =SmartModels, Flex =FlexModels, N/A=Not Available	
Synopsys VCS 6.1 and above	Smart Flex All Modes	Smart Flex HDL Control

Table 2: HP Supported Simulators and Platforms (Continued)

Platform Simulator	HP700 HP-UX 11.0/32-bit	HP64 HP-UX 11.0/64-bit
Cadence NC-Verilog 3.3 and above (via LMTV)	Smart Flex All Modes	Smart Flex HDL Control Requires NC-Verilog 4.1s14
MTI Verilog (ModelSim) 5.6d and above (via LMTV)	Smart Flex All Modes	Smart Flex HDL Control
Summit Design Visual VerilogDrive	Smart Flex C Only	N/A
Avant! Polaris 2.0 and above	Smart Flex C Only	N/A
Other Simulators	Key: Smart =SmartModels, Flex =FlexModels, N/A=Not Available	
SystemC 2.0.1	N/A	Smart
Analogy Saber/ModelSim Cosimulation Interface	Smart Flex C Only	N/A
ViewLogic Fusion 2.3 and above/ ViewSim	Smart Flex C Only	N/A
IKOS Voyager FS 2.0 and above	Smart	N/A
IKOS Gemini	Smart Flex C Only	N/A
MGC QuickSim II B.3 and above	Smart Flex C Only	N/A
MGC QuickFault II B.1 with patch 301 and above	Smart	N/A

Table 2: HP Supported Simulators and Platforms (Continued)

Platform Simulator	HP700 HP-UX 11.0/32-bit	HP64 HP-UX 11.0/64-bit
Summit Design Visual HDL 5.0 and above	Smart Flex C Only	N/A
Teradyne LASAR 6.6 and above	Smart Flex C Only	N/A
VEDA Vulcan 2.1 and above	Smart Flex C Only	N/A
VEDA VerdictFault 4.0 and above	Smart	N/A
VEDA SysHILO 4.5 and above	Smart Flex C Only	N/A

Sun Supported Simulators and Platforms

Table 3: Sun Supported Simulators and Platforms

Platform Simulator	Solaris 7/32-bit Solaris 8/32-bit	Solaris 7/64-bit Solaris 8/64-bit
VHDL Simulators	Key: Smart =SmartModels, Flex =FlexModels, N/A=Not Available	
Synopsys Scirocco 2002.06 and above	Smart Flex All Modes	N/A
Cadence NC-VHDL 3.3 and above	Smart Flex All Modes except no Vera support for C-Flex based models.	Smart Flex Flex HDL Control Requires NC-VHDL 4.1s014.
Mentor Graphics QuickHDL B.3 and above	Smart Flex C Only	N/A
ViewLogic Fusion 2.3 and above/ Speedwave	Smart Flex C Only	N/A
MTI VHDL (ModelSim) 5.6d and above	Smart Flex All Modes	Smart Flex All modes Requires Vera 6.0.4
IKOS Voyager 2.32 and above	Smart Flex C Only	N/A
Verilog Simulators	Key: Smart =SmartModels, Flex =FlexModels, N/A=Not Available	
Synopsys VCS 6.1 and above	Smart Flex All Modes	Smart Flex All Modes
Cadence NC-Verilog 3.3 and above (via LMTV)	Smart Flex All Modes	Smart Flex Flex HDL Control. Requires NC-VHDL 4.1s14.

Table 3: Sun Supported Simulators and Platforms (Continued)

Platform Simulator	Solaris 7/32-bit Solaris 8/32-bit	Solaris 7/64-bit Solaris 8/64-bit
MTI Verilog (ModelSim) 5.6d and above (via LMTV)	Smart Flex All Modes	Smart Flex All modes but Requires Vera 6.0.4
ViewLogic Fusion 2.3 and above/ VCS	Smart Flex C Only	N/A
Summit Design Visual VerilogDrive.	Smart Flex C Only	N/A
Avant! Polaris 2.0 and above	Smart Flex C Only	N/A
Other Simulators	Key: Smart =SmartModels, Flex =FlexModels, N/A=Not Available	
SystemC 2.0.1	Smart No Solaris 8/32-bit	N/A
Analogy Saber/ModelSim Cosimulation Interface	Smart Flex C Only	N/A
AT&T ATTSIM 2.0 and above	Smart Flex C Only	N/A
ViewLogic Fusion 2.3 and above/ ViewSim	Smart Flex C Only	N/A
IKOS Gemini	Smart Flex C Only	N/A
MGC QuickSim II B.3 and above	Smart Flex C Only	N/A
MGC QuickFault II B.1 with patch 301 and above	Smart	N/A

Table 3: Sun Supported Simulators and Platforms (Continued)

Platform Simulator	Solaris 7/32-bit Solaris 8/32-bit	Solaris 7/64-bit Solaris 8/64-bit
Summit Design Visual HDL 5.0 and above	Smart Flex C Only	N/A
Teradyne LASAR 6.6 and above	Smart Flex C Only	N/A
VEDA Vulcan 2.1 and above	Smart Flex C Only	N/A
VEDA VerdictFault 4.0 and above	Smart	N/A
VEDA SysHILO 4.5 and above	Smart Flex C Only	N/A

IBM and Red Hat Linux Supported Simulators and Platforms

Table 4: IBM AIX and Red Hat Linux Simulators and Platforms

Platform Simulator	IBMRS AIX 4.3.3/32-bit	Red Hat Linux 6.2/7.2
VHDL Simulators	Key: Smart =SmartModels, Flex =FlexModels, N/A=Not Available	
Synopsys Scirocco 2002.06 and above	N/A	Smart Flex All Modes
Cadence NC-VHDL 3.3 and above	N/A	Smart Flex HDL mode Requires NC-VHDL 3.4s023 or 4.1s013
ViewLogic Fusion 2.3 and above/ Speedwave	N/A	N/A
VeriBest VHDL SysSim	N/A	N/A
MTI VHDL (ModelSim) Version 5.6d and above	Smart Flex Flex HDL Control .	Smart Flex All Modes
IKOS Voyager 2.32 and above	Smart Flex HDL Control	N/A
Verilog Simulators	Key: Smart =SmartModels, Flex =FlexModels, N/A=Not Available	
Synopsys VCS 6.1 and above	Smart Flex Flex HDL Control	Smart Flex All Modes
Cadence NC-Verilog 3.3 and above (via LMTV)	Smart Flex HDL Control	Smart Flex All Modes Requires NC-Verilog 3.4s021

Table 4: IBM AIX and Red Hat Linux Simulators and Platforms (Continued)

Platform Simulator	IBMRS AIX 4.3.3/32-bit	Red Hat Linux 6.2/7.2
MTI Verilog (ModelSim) 5.6d and above (via LMTV)	Smart Flex Flex HDL Control	Smart Flex All Modes
ViewLogic Fusion 2.3 and above/ VCS	N/A	N/A
Simucad Silos III (via LMTV)	N/A	N/A
VeriBest Verilog SysSim	N/A	N/A
Summit Design Visual VerilogDrive	N/A	N/A
Avant! Polaris 2.0 and above	N/A	N/A
Other Simulators	Key: Smart =SmartModels, Flex =FlexModels, N/A=Not Available	
SystemC 2.0.1	N/A	Smart
Analogy Saber/ModelSim Cosimulation Interface	Smart HDL Control	N/A
AT&T ATTSIM 2.0 and above	Smart HDL Control	N/A
Cadence Affirma Coexecution Simulator	Smart HDL Control	N/A
Cadence OpenModeler (Rapidsim) 1.1 and above	Smart HDL Control	N/A
ViewLogic Fusion 2.3 and above/ ViewSim	N/A	N/A

Table 4: IBM AIX and Red Hat Linux Simulators and Platforms (Continued)

Platform Simulator	IBMRS AIX 4.3.3/32-bit	Red Hat Linux 6.2/7.2
IBM AUSSIM V1R1 and above	Smart HDL Control	N/A
MGC QuickSim II B.3 and above	N/A	N/A
Teradyne LASAR 6.6 and above	Smart HDL Control	N/A
VEDA Vulcan 2.1 and above	Smart HDL Control	N/A
VEDA SysHILO 4.5 and above	Smart HDL Control	N/A

Vera Supported Simulators and Platforms

Table 5: Supported Simulators and Tools for Vera Control

Software	VERA 5.2.3	VERA 6.0.4	VERA 6.0.10
Synopsys Verilog Simulators			
VCS 6.2	Solaris 2.6 Solaris 8/32-bit HP-UX 11.0/32-bit* Red Hat Linux 6.2 Red Hat Linux 7.2 * HP-UX 11.0/32-bit requires “-lcl” switch added to VCS compile.	None.	None.
VCS 7.0	None.	Solaris 7/32 bit Solaris 8/32-bit Solaris 8/64-bit HP-UX 11.0/32-bit* Red Hat Linux 7.2 *HP-UX 11.0/32-bit requires “-lcl” switch added to VCS compile.	Solaris 7/32 bit Solaris 8/32-bit Solaris 8/64-bit HP-UX 11.0/32-bit* Red Hat Linux 7.2 *HP-UX 11.0/32-bit requires “-lcl” switch added to VCS compile.
MTI Verilog Simulators			
ModelSim 5.6d	Solaris 2.6 Solaris 8/32-bit HP-UX 11.0/32-bit Red Hat Linux 6.2 Red Hat Linux 7.2	Solaris 7/32 bit Solaris 8/32-bit Supported on 64-bit Solaris machines HP-UX 11.0/32-bit Red Hat Linux 6.2 Red Hat Linux 7.2	Solaris 7/32 bit Solaris 8/32-bit HP-UX 11.0/32-bit Red Hat Linux 6.2 Red Hat Linux 7.2
Cadence Verilog Simulators			
NC-Verilog 3.4	Solaris 8/32-bit HP-UX 11.0/32-bit Red Hat Linux 7.2	Solaris 7/32-bit Solaris 8/32-bit HP-UX 11.0/32-bit Red Hat Linux 7.2	Solaris 7/32-bit Solaris 8/32-bit HP-UX 11.0/32-bit Red Hat Linux 7.2

Table 5: Supported Simulators and Tools for Vera Control (Continued)

Software	VERA 5.2.3	VERA 6.0.4	VERA 6.0.10
Synopsys VHDL Simulators			
Scirocco 2002.06* * Not supported under VHDL control; supported under VERA control only.	Solaris 2.6 Solaris 8/32-bit HP-UX 11.0/32-bit Red Hat Linux 6.2 Red Hat Linux 7.2	None.	None.
Scirocco 2002.12* * Not supported under VHDL control; supported under VERA control only.	None.	Solaris 7/32-bit Solaris 8/32-bit HP-UX 11.0/32-bit Red Hat Linux 7.2	Solaris 7/32-bit Solaris 8/32-bit HP-UX 11.0/32-bit Red Hat Linux 7.2
MTI VHDL Simulators			
ModelSim 5.6d	Solaris 2.6 Solaris 8/32-bit HP-UX 11.0/32-bit Red Hat Linux 6.2* Red Hat Linux 7.2* * Linux is not supported under VHDL control; it is supported under VERA control only (STAR 157899).	Solaris 7/32-bit Solaris 8/32-bit Supported on 64-bit Solaris machines. HP-UX 11.0/32-bit Red Hat Linux 6.2 Red Hat Linux 7.2	Solaris 7/32-bit Solaris 8/32-bit HP-UX 11.0/32-bit Red Hat Linux 6.2 Red Hat Linux 7.2
Cadence VHDL Simulators			
NC-VHDL 3.4* * Requires Cadence patch 11. Requires “-access rw” switch added to ncelab command.	Solaris 8/32-bit HP-UX 11.0/32-bit Red Hat Linux 7.2	Solaris 7/32-bit Solaris 8/32-bit HP-UX 11.0/32-bit Red Hat Linux 7.2	Solaris 7/32-bit Solaris 8/32-bit HP-UX 11.0/32-bit Red Hat Linux 7.2