

Does EDA Need a Roadmap for OS Support?



DAC PAVILION PANEL

Moderator:

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Speakers:

Peter Denyer, Sun Microsystems

Michael Evans, Red Hat

Mark Toth, Cadence Design Systems

Aidan Kelly, IBM Microelectronics



Principles of the OS RoadMap

- **Defines the sweet-spot of platform OS support for EDA suppliers**
 - Answers the customer's questions:
 - If I want to run products from companies X, Y and Z on the same compute platform:*
 - » What operating system should I be running?
 - » When do I need to transition to the next operating system version?
- **Does not bind an EDA supplier to support a particular compute platform**
 - But if they do support it, they should follow this guideline for OS support
- **EDA suppliers may exceed the guideline**
 - Sooner support for a new OS
 - Longer support for an OS

Principles of the RoadMap

- **Formula-based OS support and migration**
 - **Start of Support: 6 months after OS version general availability**
 - **End of Support: At OS vendor's end-of-shipment date**
- **Other criteria may apply**
 - **The formula provides a starting point for OS recommendations**
 - **A sub-committee meets regularly to tune the guideline based upon other criteria**
 - » Emerging platforms may take longer to support than existing platforms
 - » Availability of development tools can impact support
 - » Vendors have different end-of-shipment / end-of-support policies
- **Only the per-platform ³ guideline is published**

Processes

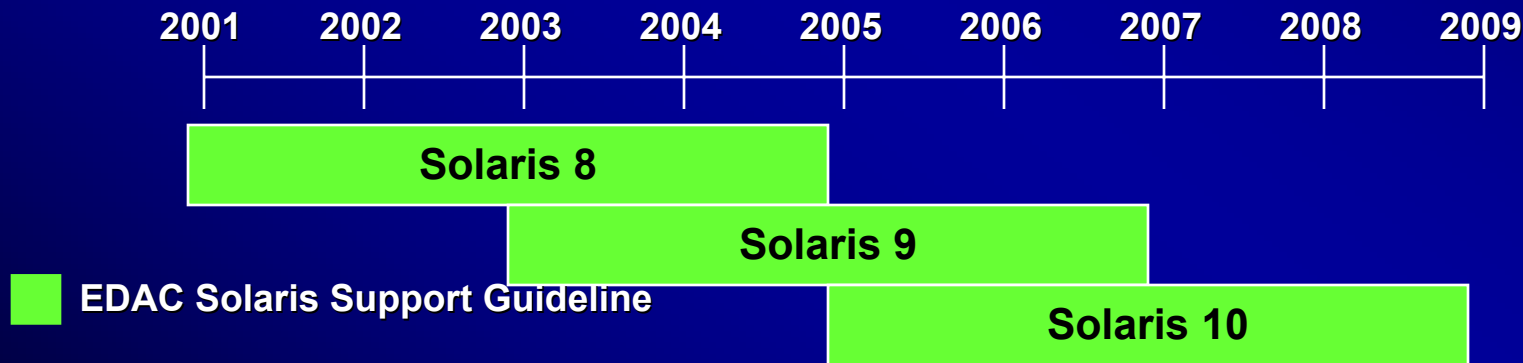
- **Communicating the Guideline**
 - **Guideline published on the EDA Consortium website**
 - » www.edac.org
 - **Links to Consortium member sites for specific roadmap support and exceptions**
- **Updating the Guideline**
 - **A standing responsibility of the EDA Consortium Quality & Interoperability Committee**
 - **Revisited and updated quarterly**

Compute Platforms & Operating Systems in the Roadmap

Compute Platform	Operating System
UltraSPARC	Solaris 8 Solaris 9 Solaris 10
PA-RISC 2.0 (32/64 bit)	HP-UX 11.0 HP-UX 11i Version 1 HP-UX 11i Version 3
X86 (32-bit Windows)	Windows 2000 Windows XP Professional Windows Server 2003
X86 (32-bit Linux)	Red Hat Enterprise Linux 3 Red Hat Enterprise Linux 4
Itanium 2 (64-bit)	Red Hat Enterprise Linux 2.1 Red Hat Enterprise Linux 3 Red Hat Enterprise Linux 4
AMD64 (32/64 bit)	Red Hat Enterprise Linux 3 Red Hat Enterprise Linux 4

Example: Guideline for UltraSPARC - Solaris

OS Version	OS Vendor GA	EDAC Guideline Start of Support	OS Vendor Planned EoS	EDAC Guideline End of Support
Solaris 8	May 2000	December 2000	December 2004	December 2004
Solaris 9	May 2002	December 2002	December 2006	December 2006
Solaris 10	May 2004	December 2004	December 2008	December 2008



Notes:

- EDA tool suppliers may exceed this baseline.
- Future dates are subject to change.
- Consult www.edac.org for specific OS support plans from participating consortium members

Example: Guideline for Itanium 2 64-bit – Linux

OS Version	OS Vendor GA	EDAC Guideline Start of Support	OS Vendor Planned EoS	EDAC Guideline End of Support
RHEL 2.1	March 2002	October 2002	November 2004	November 2004
RHEL 3	October 2003	April 2004	None Announced – est. May 2006	May 2006
RHEL 4	November 2004 (estimated)	May 2005	None Announced	None Announced



 EDAC Itanium 2 64-bit Linux Support Guideline

Notes:

- EDA tool suppliers may exceed this baseline.
- EDA tool introduction may be phased on this emerging platform. All EDA tool suppliers might not begin support with Red Hat Enterprise Linux 2.1
- Future dates are subject to change.
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Support Plans of Consortium Members

This initiative debuts with links to leading public and private EDA companies, representing over 80% of the industry's revenue.

[Aldec](#) [Interra Systems](#)

Baseline EDA Industry OS Roadmap

Note

- EDA tool suppliers may exceed the Roadmap baselines.
- Future dates are subject to change.

EDA Industry OS Roadmap includes a baseline of OS support timelines. Today the Roadmap covers EDA vendor support guidelines for the following OS versions:

Compute Platform	Operating System
Sun Ultra Sparc	Solaris 8 Solaris 9 Solaris 10
PA-RISC 2.0 (32/64 bit)	HP-UX 11.0 HP-UX 11i Version 1 HP-UX 11i Version 3
X86 (32-bit Windows)	Windows 2000 Windows XP Professional Windows Server 2003
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Guideline for UltraSPARC - Solaris

Guideline for PA-RISC 2.0 - HP-UX

Guideline for X86 32-bit - Windows

Guideline for X86 32-bit - Linux

Guideline for Itanium 2 64-bit - Linux

Guideline for AMD64 - Linux

OS Version	OS Vendor GA	EDAC Guideline Start of Support	OS Vendor Planned EoS	EDAC Guideline End of Support
RHEL 3	October 2003	April 2004	None Announced - estimate May 2006	May 2006
RHEL 4	November 2004 (estimate)	May 2005	None Announced	None Announced

2004 2005 2006 2007

Red Hat Enterprise Linux 3

Red Hat Enterprise Linux 4

EDAC AMD64 (32/64) Linux Support Guideline

- EDA tool suppliers may exceed the Roadmap baselines.
- Future dates are subject to change.
- EDA tool introduction may be phased on this emerging platform. All EDA tool suppliers may not begin support with Red Hat Enterprise Linux 2.1.

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EDA Industry OS Roadmap

Welcome to the EDA Consortium OS Roadmap webpage. As an ongoing initiative updated each quarter and more links will be added to showcase the support plan.

[Click here for the EDA Industry OS Roadmap](#)
[Click here for the Support Plans of Consortium Members](#)

Baseline EDA Industry OS Roadmap

- Note**
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PA-RISC 2.0 (3264 bit)	HP-UX 11.0 HP-UX 11i Version 1 HP-UX 11i Version 3

Support Plans of Consortium Members

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Aldec	Interra Systems
Amnucore Technology	Magma Design Automation
Apache Design Solutions	Mentor Graphics Corporation
Aptix Corporation	Monterey Design Systems
Atrinta	Nassda Corporation
BindKey Technologies	Prolific
Cadence	ReShape
ChipMD	Sagantec
Circuit Semantics	Silicon Dimensions
Concept Engineering GmbH	Synapps Software
Covare	Synopsys
Denali Software	Synplicity
Electronics Tools Company	Tension EDA
Engineering DataXpress	Tera Systems
Fintronic	Vensity
FTL Systems, Inc.	

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OS Support

Apache Design Solutions Platform Support Roadmap

Compute Platform	Operating System	Planned GA	Planned EoS
Sum Span			
AMC64 E			
686 (32-bit)			
86 (32-bit)			
GA (Gen)			

ATRENTA Platform Support Roadmap

Compute Platform	Operating System	Planned GA	Planned EoS
AMC64 E			
686 (32-bit)			
86 (32-bit)			
GA (Gen)			

BindKey Technologies

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ChipMD Platform Support Roadmap

Operating System	Planned General Availability (GA)	Planned End of Support (EoS)
Solaris 8	None	TBD
Solaris 9	None	TBD

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Tension VTC - Support Roadmap

The following tables shows current and planned **Compute** and **Operating** Systems support for Tension VTC.

Compute Platform	Operating System	Planned GA	Planned EoS
Sum Span			
AMC64 E			
686 (32-bit)			
86 (32-bit)			
GA (Gen)			

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Tera System Platform Support Roadmap

Compute Platform	Operating System	Planned GA	Planned EoS
Sum Span			
AMC64 E			
686 (32-bit)			
86 (32-bit)			
GA (Gen)			

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products

Product	Operating System	Planned GA	Planned EoS
Sum Span			
AMC64 E			
686 (32-bit)			
86 (32-bit)			
GA (Gen)			

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Concept Engineering GmbH Home Support Engineering Services Partners & Initiatives Company

Nassda Platform Support Roadmap On & Beyond Release 5.0

Compute Platform	Operating System	Planned GA	Planned EoS
Sum Span			
AMC64 E			
686 (32-bit)			
86 (32-bit)			
GA (Gen)			

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Tension VTC - Support Roadmap

The following tables shows current and planned **Compute** and **Operating** Systems support for Tension VTC.

Compute Platform	Operating System	Planned GA	Planned EoS
Sum Span			
AMC64 E			
686 (32-bit)			
86 (32-bit)			
GA (Gen)			

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MAGMA The Factory Path From PFC to Silicon

STS 700x Platform Support Roadmap

Compute Platform	Operating System	Planned GA	Planned EoS
Sum Span			
AMC64 E			
686 (32-bit)			
86 (32-bit)			
GA (Gen)			

Tera System Platform Support Roadmap

Compute Platform	Operating System	Planned GA	Planned EoS
Sum Span			
AMC64 E			
686 (32-bit)			
86 (32-bit)			
GA (Gen)			

OS Requirements

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