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## **Ansys Computing Platform Support: August 2024 for Intel & AMD 64-bit x86 processors**

Ansys is committed to providing timely releases of high-quality software products on current computing platforms that are well-suited for engineering simulations. We monitor industry trends and customer needs to select the most effective computing platforms to certify and support, periodically eliminating support for aging platforms and adding support for new platforms. This document provides a high-level summary of our current platform support strategy and near-term plans.

See [ansys.com](http://ansys.com)> Customer Center> Support> More Support> Platform Support (<https://www.ansys.com/it-solutions/platform-support>) for the most recent version of this document.

### **Ansys General Platform Support Strategy**

- We focus on support of Windows and Linux operating systems, running on x86 processors from Intel and AMD. These are the dominant platforms for engineering simulation today. A small number of products also support ARM 64 processors (aarch64 architecture) on select operating systems. See the ARM 64 processors support document in the Ansys Announcements section of the Platform Support webpage.
- We support Enterprise editions of Linux from Red Hat and SUSE. Enterprise Linux versions are chosen because they provide long-term operating system stability and product maintainability.
- As we increase our focus on virtual computing and pervasive engineering simulation, we aim to add platforms well-suited to these environments, including proven open-source options.

### **Ansys 2024 R2 Supported Platforms**

2024 R2 is the latest Ansys release. The specific operating system versions supported by each Ansys product can be found at [ansys.com](http://ansys.com)> Customer Center> Support> More Support> Platform Support (<https://www.ansys.com/it-solutions/platform-support>).

Ansys 2024 R2 includes support for the following:

- Windows 10 (64-bit Professional, Enterprise and Education editions, including FIPS mode support for most products)
- Windows 11 (64-bit Professional, Enterprise and Education editions, including FIPS mode support for most products)
- Windows Server 2019 Standard Edition (64-bit)
- Windows Server 2022 Standard Edition (64-bit) excluding HPC support
- Red Hat Enterprise Linux (RHEL) 8.5, 8.6, 8.7, 8.8, 8.9, 8.10, 9.3, and 9.4 (64-bit)
- SUSE Enterprise Linux Server & Desktop (SLES/SLED) 15 SP3, SP4, and SP5 (64-bit)
- Ubuntu 20.04 and 22.04
- Rocky Linux 8.9, 8.10, 9.3, and 9.4

The following Windows 10 versions, available via the Microsoft General Availability Channel, are supported at the time of release: 22H2.

The following Windows 11 versions, available via the Microsoft General Availability Channel, are supported at the time of release: 23H2. and 22H2.

Table 1 Ansys Roadmap	2021		2022		2023		2024		2025		2026
	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1
<b>Windows</b>											
<b>Windows 10</b> Professional, Enterprise & Education editions	✓	✓	✓	✓	✓	✓	✓	✓	✓		
<b>Windows 11</b>				✓	✓	✓	✓	✓	✓	✓	✓
<b>Windows 12</b>										✓	✓
<b>Windows Server 2016</b> Standard edition	✓	✓	✓	✓							
<b>Windows Server 2019</b> Standard edition	✓	✓	✓	✓	✓	✓	✓	✓	✓**		
<b>Windows Server 2022</b> Standard edition					✓ <sup>1</sup>	✓ <sup>1</sup>	✓ <sup>1</sup>	✓ <sup>1</sup>	✓*	✓*	✓*
<b>Windows Server 2025</b> Standard edition										✓*	✓*

✓ Ansys Applications and License Manager      \* If feasible, HPC pack will be supported      \*\* limited support

1 HPC Pack 2019 can be used for Server 2022 with the following limitation: "Windows Server 2022 is supported for head node role only with .Net Framework 4.8 cumulative update August 9, 2022-KB5015733 or later applied to all cluster nodes and clients that are on Windows Server 2022.

Ansys Student licensing is only available on Windows 10 and Windows 11 platform (64-bit, Professional, Enterprise and Educational editions). For more information, see [ansys.com> Students and Academic](https://www.ansys.com/Students and Academic) (<https://www.ansys.com/academic>)

Table 2 Ansys Roadmap	2021		2022		2023		2024		2025		2026
	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1
<b>Red Hat Enterprise Linux</b>											
<b>RHEL 6</b> Semiconductor applications only	✓										
<b>RHEL 7.6 Enterprise</b>	✓	✓									
<b>RHEL 7.7 Enterprise</b>	✓	✓	✓	✓							
<b>RHEL 7.8 Enterprise</b>	✓	✓	✓	✓	✓	✓	✓				
<b>RHEL 7.9 Enterprise</b>		✓	✓	✓	✓	✓	✓				
<b>RHEL 8.1 Enterprise</b>	✓	✓	✓	✓	✓						
<b>RHEL 8.2 Enterprise</b>		✓	✓	✓	✓						
<b>RHEL 8.3 Enterprise</b>		✓	✓	✓	✓	✓					
<b>RHEL 8.4 Enterprise</b>			✓	✓	✓	✓	✓				
<b>RHEL 8.5 Enterprise</b>				✓	✓	✓	✓	✓			
<b>RHEL 8.6 Enterprise</b>					✓	✓	✓	✓	✓*	✓*	✓*
<b>RHEL 8.7 Enterprise</b>					✓	✓	✓	✓			
<b>RHEL 8.8 Enterprise</b>						✓**	✓	✓	✓*	✓*	✓*
<b>RHEL 8.9 Enterprise</b>							✓**	✓			
<b>RHEL 8.10 Enterprise</b>								✓**	✓*	✓*	✓*
<b>RHEL 9.3 Enterprise</b>								✓			
<b>RHEL 9.4 Enterprise</b>								✓**	✓*	✓*	✓*
<b>RHEL 9.5 Enterprise</b>											
<b>RHEL 9.6 Enterprise</b>											✓*
<b>RHEL 9.7 Enterprise</b>											

✓ Ansys Applications and License Manager      \* If feasible      \*\* post-release

**Table 3 Ansys Roadmap**

SUSE Linux Enterprise Server SUSE Linux Enterprise Desktop	2021		2022		2023		2024		2025		2026
	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1
SLES 11 SP 3/4 Semiconductor applications only	✓										
SLES / SLED 12 SP 2											
SLES / SLED 12 SP 3	✓										
SLES / SLED 12 SP 4	✓	✓	✓	✓							
SLES / SLED 12 SP 5	✓	✓	✓	✓	✓	✓	✓				
SLES / SLED 15 SP 1	✓	✓	✓	✓	✓						
SLES / SLED 15 SP 2		✓	✓	✓	✓	✓	✓				
SLES / SLED 15 SP 3				✓	✓	✓	✓	✓	✓		
SLES / SLED 15 SP 4						✓	✓	✓	✓	✓	✓
SLES / SLED 15 SP 5								✓	✓*	✓*	✓*
SLES / SLED 15 SP 6										✓*	✓*
SLES / SLED 16 SP 0										✓*	✓*
SLES / SLED 16 SP 1											✓*

✓ Ansys Applications and License Manager

\* If feasible

**Table 4 Ansys Roadmap**

Linux: Community Enterprise OS	2020	2021		2022		2023		2024		2025	
	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2
CentOS 6 Semiconductor applications only	✓	✓									
CentOS 7.4	✓										
CentOS 7.5	✓										
CentOS 7.6	✓	✓	✓								
CentOS 7.7	✓	✓	✓	✓	✓						
CentOS 7.8		✓	✓	✓	✓	✓	✓	✓			
CentOS 7.9			✓	✓	✓	✓	✓	✓			
CentOS 8.1		✓	✓	✓	✓						
CentOS 8.2			✓	✓	✓						
CentOS 8.3			✓	✓	✓						

✓ Ansys Applications and License Manager

\* If feasible

## Replacement support for CentOS announcement

Starting with release 2022 R2, ANSYS, Inc. began supporting the long-term support releases of the Ubuntu Linux operating system.

Developed largely using free and open-source software, Ubuntu is supported as an alternative following the recently announced termination of CentOS (Community Enterprise Operating System). See <https://blog.centos.org/2020/12/future-is-centos-stream/>

CentOS 7 is no longer supported as of release 2024 R1. No newer versions of CentOS 7 will be supported by Ansys.

CentOS 8 is no longer supported as of release 2023 R1. No newer versions of CentOS 8 will be supported by Ansys.

**Table 5 Ansys Roadmap**

Linux: Ubuntu LTS Desktop / Server	2021		2022		2023		2024		2025		2026
	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1
18.04 "Bionic Beaver"											
20.04 "Focal Fossa"				✓	✓	✓	✓	✓	✓		
22.04 "Jammy Jellyfish"						✓	✓	✓	✓	✓	✓
24.04 "Noble Numbat"										✓	✓

✓ Ansys Applications and License Manager      \* If feasible

Starting with release 2024 R2, ANSYS, Inc. will begin supporting the Rocky Linux operating system.

The scope of support is contingent on the Rocky version policy that "when a new minor release arrives, all previous updates/versions are not carried over."

**Table 6 Ansys Roadmap**

Linux: Rocky Linux™	2024		2025		2026		2027		2028		2029
	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1
8.9 "Green Obsidian"		✓									
8.10 "Green Obsidian"		✓**	✓*	✓*	✓*						
9.3 "Blue Onyx"		✓									
9.4 "Blue Onyx"		✓**	✓*	✓*	✓*						
9.5 "Blue Onyx"											
9.6 "Blue Onyx"					✓*						
9.7 "Blue Onyx"											

✓ Ansys Applications and License Manager      \* If feasible      \*\* post-release

The information in the above six roadmap tables represents Ansys' current view of its product support platform and availability dates. It is intended for informational purposes only and subject to change at any time without prior notification. When available, updated versions of this document will be published on [ansys.com](https://www.ansys.com).

## **AMD Central Processing Unit Performance**

The performance of AMD 64-bit x86 processors is enhanced with AMD Optimizing CPU Libraries (AOCL). To date the direct matrix solver in the HFSS product supports the AMD Zen4 AVX512 CPU, resulting in enhanced performance. Ansys products pending support of the AVX512 CPU include those shown in the table below.

	<b>HFSS</b>	<b>Q3D</b>	<b>PSI</b>	<b>Slwave</b>	<b>Maxwell</b>
<b>AMD optimized</b>	yes*	no	no	no	no
<b>AVX512</b>	no*	no	no	no	no

\* Support vector instruction sizes of up to 256

## **Virtual Desktop Infrastructure**

Ansys 2024 R2 supports the following Virtual Desktop Infrastructure:

- **VMware Horizon View** (Windows 10 / 11, Server 2019 / 2022, Red Hat 8 / 9, SLES 15, and Ubuntu 20.02 / 22.04) with VMware vSphere ESXI (Hypervisor Layer)
- **Citrix Virtual Desktop** (Windows 10 and Server 2019 / 2022) with Citrix Hypervisor
- **NICE DCV** (Red Hat 8 / 9, SLES 15, Ubuntu 20.04 / 22.04) with VMware vSphere ESXI or Citrix Hypervisor GPU Pass-Through only

For more detailed support information and specific versions tested, see the *Ansys 2024 R2 – Remote Display and Virtual Desktop Support* table at [ansys.com> Customer Center> Support> More Support> Platform Support \(https://www.ansys.com/it-solutions/platform-support\)](https://www.ansys.com/customer-center/support/more-support/platform-support).

## **Compilers**

To take advantage of improving compiler technologies, Ansys updates supported compilers from time to time. The following compilers are supported for user-programmable features and functions at Ansys 2024 R2:

- Visual Studio 2019 version 16.0.22 (Windows)
- GCC 8.2 (Linux)
- Intel OneAPI 2023.1.0 Classic C/C++ compiler, version 2021.9.0 (Linux and Windows)
- Intel OneAPI 2023.1.0 Classic FORTRAN compiler, 2021.9.0 (Linux and Windows)

## **Ansys Quality Assurance Services**

Typically, QA Services and the associated Verification Testing Packages will be available for the same platforms as Ansys 2024 R2. Contact the ANSYS, Inc. Corporate Quality Group at [ansys-qa-services@ansys.com](mailto:ansys-qa-services@ansys.com) for information about ANSYS, Inc.'s QA Services.

## **Feedback**

For questions about this document, or if you have platforms that you would like us to consider supporting in the future, you can e-mail those requests to [platform-feedback@ansys.com](mailto:platform-feedback@ansys.com). Your feedback is important to us and will determine our future platform support plans.

Please do not use this address if you need technical support. Contact your technical support team directly.