Ansys Computing Platform Support: January 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> 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 R1 Supported Platforms

2024 R1 is the latest Ansys release. The specific operating system versions supported by each Ansys product can be found at ansys.com> Customer Center> Support> More Support> Platform Support (https://www.ansys.com/it-solutions/platform-support).

Ansys 2024 R1 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) 7.8, 7.9, 8.4, 8.5, 8.6, 8.7, and 8.8 (64-bit)
- SUSE Enterprise Linux Server & Desktop (SLES/SLED) 12 SP5 (64-bit)
- SUSE Enterprise Linux Server & Desktop (SLES/SLED) 15 SP2, SP3, and SP4 (64-bit)
- Community Enterprise OS (CentOS) 7.8 and 7.9 (64-bit)
- Ubuntu 20.04 and 22.04

The following Windows 10 versions, available via the Microsoft General Availability Channel, are supported at the time of release: 22H2, and 21H2.

The following Windows 11 versions, available via the Microsoft General Availability Channel, are supported at the time of release: 22H2 and 21H2.

Table 1 Ansys Roadmap — Windows

Windows	2021 R1	2021 R2	2022 R1	2022 R2	2023 R1	2023 R2	2024 R1	2024 R2	2025 R1	2025 R2	2026 R1
Windows 10 Professional, Enterprise & Education editions	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Windows 11				✓	✓	✓	✓	✓	✓	✓	✓
Windows 12										✓	✓
Windows Server 2016 Standard edition	✓	✓	✓	✓							
Windows Server 2019 Standard edition	✓	✓	✓	✓	✓	✓	✓	✓	✓**		
Windows Server 2022 Standard edition					✓[1]	✓[1]	✓[1]	✓*	✓*	✓*	✓*
Windows Server 2025 Standard edition										✓*	✓*

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

1 Microsoft HPC Pack (Scheduler and MPI) is not supported for Windows Server

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/academic)

Table 2 Ansys Roadmap — Red Hat Enterprise Linux

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

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

GSA Contract Holder

Table 3 Ansys Roadmap

SUSE Linux Enterprise Server / SUSE Linux Enterprise Desktop	2021 R1	2021 R2	2022 R1	2022 R2	2023 R1	2023 R2	2024 R1	2024 R2	2025 R1	2025 R2	2026 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 16 SP 0									✓*	✓*	✓*
SLES / SLED 16 SP 1											✓*

✓ Ansys Applications and License Manager   * If feasible

Table 4 Ansys Roadmap

Linux: Community Enterprise OS	2020 R2	2021 R1	2021 R2	2022 R1	2022 R2	2023 R1	2023 R2	2024 R1	2024 R2	2025 R1	2025 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/

Ansys is phasing out support for CentOS. The current strategy is to support the latest versions of CentOS 7 up to and including Ansys release 2024 R1.

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 "Naughty Nightingale"										✓	✓

✓ 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

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.

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.

	HFSS	Q3D	PSI	SIwave	Maxwell
AMD optimized	yes*	no	no	no	no
AVX512	no*	no	no	no	no

* Support vector instruction sizes of up to 256

Virtual Desktop Infrastructure

Ansys 2024 R1 supports the following Virtual Desktop Infrastructure:

- **VMware Horizon View** (Windows 10 / 11, Server 2019 / 2022, Red Hat 7 / 8, SLES 12 / 15, CentOS 7, 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 7 / 8, SLES 12 / 15, CentOS 7, and 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 R1 – 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).

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 R1:

- 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 R1. Contact the ANSYS, Inc. Corporate Quality Group at 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. 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.