Message Passing Interface Support for Parallel Computing

Release 2021 R1

		Ansys Products	Supported MPI	Interconnect	Notations
64-bit Windows	☑ Windows 10	DAnsys* **Mechanical**	Intel MPI 2018.3.210 (default) MS-MPI v10.0	Consult the MPI vendor for supported interconnect hardware.	* Distributed Ansys (including Autodyn and Explicit STR)
	☑ Windows 10	Ansys **Fluent**	Intel MPI 2018.3.210 (default) MS-MPI v10.0 **	Protocols are supported for GIGE and Infiniband interconnects.	** Limited to shared memory runs
	☑ Windows 10	Ansys **CFX**	Intel MPI 2018.3.210 (default)	Protocols are supported for GIGE and Infiniband interconnects.	
	☑ Windows 10	Ansys **Forte**	Intel MPI 2018.3.210	Consult the MPI vendor for supported interconnect hardware.	
	☑ Windows 10	**Lumerical**	Intel MPI 2018.4.274 Microsoft MPI v10.1	Consult the MPI vendor for supported interconnect hardware.	
	☑ Windows 10	Ansys **HFSS**, **Maxwell, Q3D Extractor** & **SIwave**	Intel MPI 2018.3.210 (default) MS-MPI v10.0	Consult the MPI vendor for supported interconnect hardware.	
	☑ Windows 10	Ansys **SPEOS** & **VRXPERIENCE**	MS-MPI v10.0 Intel MPI 2019.8.254	Consult the MPI vendor for supported interconnect hardware.	

		Ansys Products	Supported MPI	Interconnect	Notations
Windows Server 2016 & 2019 **	☑ Windows Server 2016 ☑ Windows Server 2019	DAnsys* **Mechanical**	Microsoft HPC Pack 2016 Microsoft HPC Pack 2019	Consult the MPI vendor for supported interconnect hardware.	* Distributed Ansys (including Autodyn and Explicit STR)
	☑ Windows Server 2016 ☑ Windows Server 2019	Ansys **Fluent**	Microsoft HPC Pack 2016 Microsoft HPC Pack 2019	Protocols are supported for GIGE and Infiniband interconnects.	
	☑ Windows Server 2016 ☑ Windows Server 2019	Ansys **CFX**	Microsoft HPC Pack 2016 Microsoft HPC Pack 2019	Protocols are supported for GIGE and Infiniband interconnects.	
	☑ Windows Server 2016 ☑ Windows Server 2019	Ansys **Forte**	Intel MPI 2018.3.210	Consult the MPI vendor for supported interconnect hardware.	
	☑ Windows Server 2016 ☑ Windows Server 2019	**Lumerical**	Intel MPI 2018.4.274 Microsoft MPI v10.1	Consult the MPI vendor for supported interconnect hardware.	
	☑ Windows Server 2016 ☑ Windows Server 2019	Ansys **HFSS**, **Maxwell, Q3D Extractor** & **SIwave**	Microsoft HPC Pack 2016 Microsoft HPC Pack 2019 Intel MPI 2018.3.210	Consult the MPI vendor for supported interconnect hardware.	
	☑ Windows Server 2016 ☑ Windows Server 2019	Ansys **SPEOS** & **VRXPERIENCE**	Microsoft HPC Pack 2016 Microsoft HPC Pack 2019 Intel MPI 2019.8.254	Consult the MPI vendor for supported interconnect hardware.	

** When using Microsoft HPC Pack:
Windows Server 2016 should be used with HPC Pack 2016 Update 3
Windows Server 2019 should be used with HPC Pack 2019

		ANSYS Products	Supported MPI	Interconnect	Notations
64-bit Linux	☑ Red Hat 7.6 / 7.7 / 7.8 / 8.1 ☑ SLES / SLED 12 (SP3, SP4, SP5) ☑ SLES / SLED 15 (SP1) ☑ CentOS 7.6 / 7.7 / 7.8 / 8.1	DAnsys* **Mechanical**	Intel MPI 2018.3.222 (default) OpenMPI 3.1.5	Consult the MPI vendor for supported interconnect hardware.	* Distributed Ansys (including Autodyn and Explicit STR)
	☑ Red Hat 7.6 / 7.7 / 7.8 / 8.1 ☑ SLES / SLED 12 (SP3, SP4, SP5) ☑ SLES / SLED 15 (SP1) ☑ CentOS 7.6 / 7.7 / 7.8 / 8.1	Ansys **Fluent**	Intel MPI 2018.3.222** OpenMPI 3.1.2 Cray MPI***	Protocols are supported for GIGE and Infiniband interconnects, including Omni-Path fabric.	** For Omni-Path architecture, Omni-Path software 10.2 or higher is recommended, and Intel MPI is preferred. *** Cray MPI is supported on all Cray XE and XC systems; Linux versions require a minimum of Cray Linux Environment 6.0 update 03 (based on SUSE Linux Enterprise Server 12); MPT versions require Cray MPT 7.x default for Fluent.
	☑ Red Hat 7.6 / 7.7 / 7.8 / 8.1 ☑ SLES / SLED 12 (SP3, SP4, SP5) ☑ SLES / SLED 15 (SP1) ☑ CentOS 7.6 / 7.7 / 7.8 / 8.1	Ansys **CFX**	Intel MPI 2018.3.222** (default) OpenMPI 3.1.2 Cray MPI***	Protocols are supported for GIGE and Infiniband interconnects, including Omni-Path fabric.	** For Omni-Path architecture, Omni-Path software 10.2 or higher is recommended, and Intel MPI is preferred. *** Cray MPI is supported on all Cray XE and Cray XC systems: Linux versions require a minimum of Cray Linux Environment 6.0 update 03 (based on SUSE Linux Enterprise Server 12); MPT versions require Cray MPT 7.x default for CFX.
	☑ Red Hat 7.6 / 7.7 / 7.8 / 8.1 ☑ SLES / SLED 12 (SP3, SP4, SP5) ☑ SLES / SLED 15 (SP1) ☑ CentOS 7.6 / 7.7 / 7.8 / 8.1	Ansys **Forte**	Intel MPI 2018.3.222	Consult the MPI vendor for supported interconnect hardware.	
	☑ Red Hat 6.10 / 7.6 / 7.7 / 7.8 / 8.1 ☑ SLES / SLED 12 (SP3, SP4, SP5) ☑ SLES / SLED 15 (SP1) ☑ CentOS 6.10 /7.6 / 7.7 / 7.8 / 8.1	**Lumerical**	Intel MPI 2019.3.199 OpenMPI 3.1.4	Consult the MPI vendor for supported interconnect hardware.	
	☑ Red Hat 7.6 / 7.7 / 7.8 / 8.1 ☑ SLES / SLED 12 (SP3, SP4, SP5) ☑ SLES / SLED 15 (SP1) ☑ CentOS 7.6 / 7.7 / 7.8 / 8.1	Ansys **HFSS**, **Maxwell**, **Q3D Extractor** & **SIwave**	Intel MPI 2018.3.222 (default)	Consult the MPI vendor for supported interconnect hardware.	
	☑ Red Hat 6.9 / 7.6 / 7.7 / 7.8 / 8.1 ☑ SLES / SLED 11 (SP3, SP4) ☑ SLES / SLED 12 (SP3, SP4, SP5) ☑ SLES / SLED 15 (SP1) ☑ CentOS 6.9 / 7.6 / 7.7 / 7.8 / 8.1	Ansys **RedHawk**	OpenMPI 1.6.4	Consult the MPI vendor for supported interconnect hardware.	
	☑ Red Hat 7.6 / 7.7 / 7.8 / 8.1 ☑ SLES / SLED 12 (SP3, SP4, SP5) ☑ SLES / SLED 15 (SP1) ☑ CentOS 7.6 / 7.7 / 7.8 / 8.1	Ansys **SPEOS** & **VRXPERIENCE**	Intel MPI 2018.4.274 OpenMPI 2018.3.1.2	Consult the MPI vendor for supported interconnect hardware.	