



Message Passing Interface Support for Parallel Computing

Release 2021 R1

Ansys Products		Supported MPI	Interconnect	Notations	
64-bit Windows	<input checked="" type="checkbox"/> 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)
	<input checked="" type="checkbox"/> 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
	<input checked="" type="checkbox"/> Windows 10	Ansys CFX	Intel MPI 2018.3.210 (default)	Protocols are supported for GIGE and Infiniband interconnects.	
	<input checked="" type="checkbox"/> Windows 10	Ansys Forte	Intel MPI 2018.3.210	Consult the MPI vendor for supported interconnect hardware.	
	<input checked="" type="checkbox"/> Windows 10	Lumerical	Intel MPI 2018.4.274 Microsoft MPI v10.1	Consult the MPI vendor for supported interconnect hardware.	
	<input checked="" type="checkbox"/> 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.	
	<input checked="" type="checkbox"/> 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 **	<input checked="" type="checkbox"/> Windows Server 2016 <input checked="" type="checkbox"/> 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)
	<input checked="" type="checkbox"/> Windows Server 2016 <input checked="" type="checkbox"/> Windows Server 2019	Ansys Fluent	Microsoft HPC Pack 2016 Microsoft HPC Pack 2019	Protocols are supported for GIGE and Infiniband interconnects.	
	<input checked="" type="checkbox"/> Windows Server 2016 <input checked="" type="checkbox"/> Windows Server 2019	Ansys CFX	Microsoft HPC Pack 2016 Microsoft HPC Pack 2019	Protocols are supported for GIGE and Infiniband interconnects.	
	<input checked="" type="checkbox"/> Windows Server 2016 <input checked="" type="checkbox"/> Windows Server 2019	Ansys Forte	Intel MPI 2018.3.210	Consult the MPI vendor for supported interconnect hardware.	
	<input checked="" type="checkbox"/> Windows Server 2016 <input checked="" type="checkbox"/> Windows Server 2019	Lumerical	Intel MPI 2018.4.274 Microsoft MPI v10.1	Consult the MPI vendor for supported interconnect hardware.	
	<input checked="" type="checkbox"/> Windows Server 2016 <input checked="" type="checkbox"/> Windows Server 2019	Ansys HFSS, Maxwell, Q3D Extractor & Slwave	Microsoft HPC Pack 2016 Microsoft HPC Pack 2019 Intel MPI 2018.3.210	Consult the MPI vendor for supported interconnect hardware.	
	<input checked="" type="checkbox"/> Windows Server 2016 <input checked="" type="checkbox"/> 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	<input checked="" type="checkbox"/> Red Hat 7.6 / 7.7 / 7.8 / 8.1 <input checked="" type="checkbox"/> SLES / SLED 12 (SP3, SP4, SP5) <input checked="" type="checkbox"/> SLES / SLED 15 (SP1) <input checked="" type="checkbox"/> 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)
	<input checked="" type="checkbox"/> Red Hat 7.6 / 7.7 / 7.8 / 8.1 <input checked="" type="checkbox"/> SLES / SLED 12 (SP3, SP4, SP5) <input checked="" type="checkbox"/> SLES / SLED 15 (SP1) <input checked="" type="checkbox"/> 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.
	<input checked="" type="checkbox"/> Red Hat 7.6 / 7.7 / 7.8 / 8.1 <input checked="" type="checkbox"/> SLES / SLED 12 (SP3, SP4, SP5) <input checked="" type="checkbox"/> SLES / SLED 15 (SP1) <input checked="" type="checkbox"/> 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.
	<input checked="" type="checkbox"/> Red Hat 7.6 / 7.7 / 7.8 / 8.1 <input checked="" type="checkbox"/> SLES / SLED 12 (SP3, SP4, SP5) <input checked="" type="checkbox"/> SLES / SLED 15 (SP1) <input checked="" type="checkbox"/> CentOS 7.6 / 7.7 / 7.8 / 8.1	Ansys Forte	Intel MPI 2018.3.222	Consult the MPI vendor for supported interconnect hardware.	
	<input checked="" type="checkbox"/> Red Hat 6.10 / 7.6 / 7.7 / 7.8 / 8.1 <input checked="" type="checkbox"/> SLES / SLED 12 (SP3, SP4, SP5) <input checked="" type="checkbox"/> SLES / SLED 15 (SP1) <input checked="" type="checkbox"/> 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.	
	<input checked="" type="checkbox"/> Red Hat 7.6 / 7.7 / 7.8 / 8.1 <input checked="" type="checkbox"/> SLES / SLED 12 (SP3, SP4, SP5) <input checked="" type="checkbox"/> SLES / SLED 15 (SP1) <input checked="" type="checkbox"/> 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.	
	<input checked="" type="checkbox"/> Red Hat 6.9 / 7.6 / 7.7 / 7.8 / 8.1 <input checked="" type="checkbox"/> SLES / SLED 11 (SP3, SP4) <input checked="" type="checkbox"/> SLES / SLED 12 (SP3, SP4, SP5) <input checked="" type="checkbox"/> SLES / SLED 15 (SP1) <input checked="" type="checkbox"/> 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.	
	<input checked="" type="checkbox"/> Red Hat 7.6 / 7.7 / 7.8 / 8.1 <input checked="" type="checkbox"/> SLES / SLED 12 (SP3, SP4, SP5) <input checked="" type="checkbox"/> SLES / SLED 15 (SP1) <input checked="" type="checkbox"/> CentOS 7.6 / 7.7 / 7.8 / 8.1	Ansys SPEOS & VRXPERIENCE	Intel MPI 2018.3.222 Intel MPI 2018.4.274 OpenMPI 3.1.2	Consult the MPI vendor for supported interconnect hardware.	