



# Message Passing Interface Support for Parallel Computing

Release 2020 R2

Ansys Products		Supported MPI	Interconnect	Notations	
64-bit Windows	<input checked="" type="checkbox"/> Windows 10	DAnsys* <b>Mechanical</b>	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)  ** Limited to shared memory runs
	<input checked="" type="checkbox"/> Windows 10	Ansys <b>Fluent</b>	Intel MPI 2018.3.210 (default) MS-MPI v9.0 **	Protocols are supported for GIGE and Infiniband interconnects.	
	<input checked="" type="checkbox"/> Windows 10	Ansys <b>CFX</b>	Intel MPI 2018.3.210 (default)	Protocols are supported for GIGE and Infiniband interconnects.	
	<input checked="" type="checkbox"/> Windows 10	Ansys <b>Forte</b>	Intel MPI 2018.3.210	Consult the MPI vendor for supported interconnect hardware.	
	<input checked="" type="checkbox"/> Windows 10	Ansys <b>HFSS, Maxwell &amp; Q3D Extractor</b>	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 <b>SPEOS &amp; VRXPERIENCE</b>	MS-MPI v10.0 Intel MPI 2019.3.203	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**	DAnsys* <b>Mechanical</b>	Microsoft HPC Pack 2016 (update 3)	Consult the MPI vendor for supported interconnect hardware.	* Distributed Ansys (including Autodyn and Explicit STR) Requires HPC Pack 2016 update 2 **
	<input checked="" type="checkbox"/> Windows Server 2016**	Ansys <b>Fluent</b>	Microsoft HPC Pack 2016 (update 3)	Protocols are supported for GIGE and Infiniband interconnects.	** Requires HPC Pack 2016 update 2
	<input checked="" type="checkbox"/> Windows Server 2016**	Ansys <b>CFX</b>	Microsoft HPC Pack 2016 (update 3)	Protocols are supported for GIGE and Infiniband interconnects.	** Requires HPC pack 2016 update 2
	<input checked="" type="checkbox"/> Windows Server 2016 <input checked="" type="checkbox"/> Windows Server 2019***	Ansys <b>Forte</b>	Intel MPI 2018.3.210 (update 3)	Consult the MPI vendor for supported interconnect hardware.	*** Support limited to Intel MPI
	<input checked="" type="checkbox"/> Windows Server 2016** <input checked="" type="checkbox"/> Windows Server 2019***	Ansys <b>HFSS, Maxwell &amp; Q3D Extractor</b>	Microsoft HPC Pack 2016 (update 3) Intel MPI 2018.3.210 (default)	Consult the MPI vendor for supported interconnect hardware.	** Requires HPC Pack 2016 update 2 *** Support limited to Intel MPI
	<input checked="" type="checkbox"/> Windows Server 2016** <input checked="" type="checkbox"/> Windows Server 2019***	Ansys <b>SPEOS &amp; VRXPERIENCE</b>	Microsoft HPC Pack 2016 (update 2 & 3) Intel MPI 2019.3.203	Consult the MPI vendor for supported interconnect hardware.	** Requires HPC Pack 2016 update 2 *** Support limited to Intel MPI

ANSYS Products		Supported MPI	Interconnect	Notations	
64-bit Linux	<input checked="" type="checkbox"/> Red Hat 7.4 / 7.5 / 7.6 / 7.7 <input checked="" type="checkbox"/> SLES / SLED 12 (SP3, SP4) <input checked="" type="checkbox"/> SLES / SLED 15 (SP1) <input checked="" type="checkbox"/> CentOS 7.4 / 7.5 / 7.6 / 7.7	DAnsys* <b>Mechanical</b>	Intel MPI 2018.3.222 (default) OpenMPI 3.1.5	Consult the MPI vendor for supported interconnect hardware.	<p>* Distributed Ansys (including Autodyn and Explicit STR)</p> <p>** For Omni-Path architecture, Omni-Path software 10.2 or higher is recommended, and Intel MPI is preferred.</p> <p>*** 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.</p> <p>** For Omni-Path architecture, Omni-Path software 10.2 or higher is recommended, and Intel MPI is preferred.</p> <p>*** 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.</p>
	<input checked="" type="checkbox"/> Red Hat 7.4 / 7.5 / 7.6 / 7.7 <input checked="" type="checkbox"/> SLES / SLED 12 (SP3, SP4) <input checked="" type="checkbox"/> SLES / SLED 15 (SP1) <input checked="" type="checkbox"/> CentOS 7.4 / 7.5 / 7.6 / 7.7	<b>Ansys Fluent</b>	Intel MPI 2018.3.222** OpenMPI 3.1.2 Cray MPI***	Protocols are supported for GIGE and Infiniband interconnects, including Omni-Path fabric.	
	<input checked="" type="checkbox"/> Red Hat 7.4 / 7.5 / 7.6 / 7.7 <input checked="" type="checkbox"/> SLES / SLED 12 (SP3, SP4) <input checked="" type="checkbox"/> SLES / SLED 15 (SP1) <input checked="" type="checkbox"/> CentOS 7.4 / 7.5 / 7.6 / 7.7	<b>Ansys CFX</b>	Intel MPI 2018.3.222** (default) Cray MPI***	Protocols are supported for GIGE and Infiniband interconnects, including Omni-Path fabric.	
	<input checked="" type="checkbox"/> Red Hat 7.4 / 7.5 / 7.6 / 7.7 <input checked="" type="checkbox"/> SLES / SLED 12 (SP3, SP4) <input checked="" type="checkbox"/> SLES / SLED 15 (SP1) <input checked="" type="checkbox"/> CentOS 7.4 / 7.5 / 7.6 / 7.7	<b>Ansys Forte</b>	Intel MPI 2018.3.222	Consult the MPI vendor for supported interconnect hardware.	
	<input checked="" type="checkbox"/> Red Hat 7.4 / 7.5 / 7.6 / 7.7 <input checked="" type="checkbox"/> SLES / SLED 12 (SP3, SP4) <input checked="" type="checkbox"/> SLES / SLED 15 (SP1) <input checked="" type="checkbox"/> CentOS 7.4 / 7.5 / 7.6 / 7.7	<b>Ansys HFSS, Maxwell &amp; Q3D Extractor</b>	Intel MPI 2018.3.222 (default)	Consult the MPI vendor for supported interconnect hardware.	
	<input checked="" type="checkbox"/> Red Hat 6.9 / 6.10 <input checked="" type="checkbox"/> Red Hat 7.4 / 7.5 / 7.6 / 7.7 <input checked="" type="checkbox"/> SLES / SLED 11 (SP3, SP4) <input checked="" type="checkbox"/> SLES / SLED 12 (SP2, SP3, SP4) <input checked="" type="checkbox"/> SLES / SLED 15 (SP1) <input checked="" type="checkbox"/> CentOS 6.9 / 7.4 / 7.5 / 7.6 / 7.7	<b>Ansys RedHawk</b>	OpenMPI 1.6.4	Consult the MPI vendor for supported interconnect hardware.	
	<input checked="" type="checkbox"/> Red Hat 7.4 / 7.5 / 7.6 / 7.7 <input checked="" type="checkbox"/> SLES / SLED 12 (SP2, SP3, SP4) <input checked="" type="checkbox"/> SLES / SLED 15 (SP1) <input checked="" type="checkbox"/> CentOS 7.4 / 7.5 / 7.6 / 7.7	<b>Ansys SPEOS &amp; VRXPERIENCE</b>	Intel MPI 2018.4.274 OpenMPI 2018.3.1.2	Consult the MPI vendor for supported interconnect hardware.	