

❖ SUPPORTED DISTRIBUTIONS AND PRE-REQUISITES

SALOME is a cross-platform solution that supports Linux and Windows. It is distributed as open-source software under the terms of the GNU LGPL license.

SALOME 8.4.0 comes with the same versions of pre-requisites on all supported platforms (with some minor exceptions). The table below lists the versions of the pre-requisite products used by SALOME platform. Other versions of the products can also work but it is not guaranteed.

Product	Version	KERNEL	GUI	GEOM	SMESH	MED	YACS	PARAVIS	HOMARD	HEXABLOCK	JOBMANAGER	NETGENPLUGIN	GHS3DPLUGIN	GHS3DPRPLPLUGIN	BLSURFPLUGIN	HexaticPLUGIN	HEXABLOCKPLUGIN	HYBRIDPLUGIN	GMSHPLUGIN
gcc*	4.4***	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GNU make*	3.81***	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Microsoft Visual C++**	2010	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CMake	3.3.0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Python	2.7.10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Qt	5.9.1		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sip	4.19.3		X																
PyQt	5.9.0	X	X		X	X		X											
Boost	1.52.0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Swig	2.0.8	X	X	X	X	X	X		X	X									
OCCT	7.2.0p1		X	X	X				X	X		X	X	X	X	X	X	X	X
Qwt	6.1.2		X		X														
OmniORB	4.1.6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
OmniORBpy	3.6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hdf5	1.8.14	X	X		X														
Med	3.3.1				X	X		X	X										
Vtk	8.1.0		X	X	X	X		X		X		X	X	X	X	X	X	X	X
Numpy	1.9.2		X		X	X		X	X										
Graphviz	2.38.0	X	X	X	X	X	X					X	X	X	X	X		X	X
Doxygen	1.8.3.1	X	X	X	X	X	X					X	X	X	X	X	X	X	X
Netgen	5.3.1											X							
Metis	5.1.0					X													
Scotch	5.1.11					X													
Libxml2	2.9.0	X	X			X	X												
Distene MeshGems	2.5-7												X	X	X	X		X	
Sphinx	1.2.3	X			X	X	X	X	X	X	X								
Libbatch	2.3.2	X																	
Cgns	3.3.1				X														
Paraview	5.4.0		X			X		X											
Homard	11.10								X										
Gmsh	3.0.5																		X

*) Linux only

**) Windows only

***) Minimal required version

The following products are not mandatory for SALOME directly; these products are either optional for SALOME or only required to build other pre-requisite products.

Product	Version	Required by	Comment
Babel	2.0	Sphinx	Not used directly by SALOME
Cppunit	1.12.1	KERNEL, MED, GEOM, YACS, HEXABLOCK	Optional
Cython	0.23.2	H5py, Mpi4py, Scipy	Not used directly by SALOME
Distribute	0.7.3	Matplotlib	Not used directly by SALOME
Docutils	0.12	Sphinx	Not used directly by SALOME
Freeimage	3.16.0	Open CASCADE Technology	Optional; not used directly by SALOME
FreeType	2.4.11	Open CASCADE Technology, ParaView	Optional; not used directly by SALOME
Gl2ps	1.3.9	Open CASCADE Technology, VTK, ParaView	Optional; not used directly by SALOME
H5py	2.5.0		Not used directly by SALOME
Intel TBB	4.2.4	Open CASCADE Technology, SMESH	Optional
Jinja2	2.7.3	Sphinx	Not used directly by SALOME
Lapack	3.5.0	Numpy	Not used directly by SALOME
Markupsafe	0.23	Shinx	Not used directly by SALOME
Matplotlib	1.4.3	ParaView	Optional; not used directly by SALOME
Mpi4py	1.3.1		Not used directly by SALOME
Nose	1.3.7	H5py	Not used directly by SALOME
Opencv	2.4.6.1	GEOM	Optional
Openmpi	1.8.5	ParaView, Hdf5, Med, KERNEL, MED	Optional
Paco++	0.5.5	KERNEL	Optional
Pkgconfig	1.1.0	H5py	Not used directly by SALOME
Pygments	2.0.2	Sphinx	Not used directly by SALOME
Pyparsing	2.0.3	Matplotlib	Not used directly by SALOME
Python-dateutil	2.4.2	Matplotlib	Not used directly by SALOME
Pytz	2015.4	Matplotlib	Not used directly by SALOME
Scipy	0.15.1	Matplotlib	Not used directly by SALOME
Setuptools	0.6c11	Sphinx, Matplotlib, Numpy, Scipy, ...	Not used directly by SALOME
Six	1.9.0	Matplotlib	Not used directly by SALOME
Tcl	8.6.0	Open CASCADE Technology, Python	Optional; not used directly by SALOME
Tk	8.6.0	Open CASCADE Technology, Python	Optional; not used directly by SALOME
Tclx	8.4.1	Open CASCADE Technology, Python	Optional; not used directly by SALOME

SALOME 8.4.0 depends on a number of products for run time execution, others are necessary only for compilation or generation of development documentation (like doxygen for example). Below there is a list of mandatory and optional products.

Software Requirements

Product	Compilation and Development		Execution		Remarks
	Mandatory	Optional	Mandatory	Optional	
Gcc	X		X		
GNU make	X				
Microsoft Visual C++	X		X		For execution, runtime libraries are only required
Boost	X		X		
Cgns		X		X	For SMESH only Required only if used at compilation step
CMake	X				
Cppunit		X			Used for unitary testing
Distene MeshGems suite	X	X	X		Compilation: mandatory for BLSURFPLUGIN only, optional for HEXOTICPLUGIN Runtime: mandatory for BLSURFPLUGIN, GHS3DPLUGIN, GHS3DPRLPLUGIN, HexoticPLUGIN, HYBRIDPLUGIN
Doxygen		X			Needed only for documentation generation
Freetype	X		X		
Freeimage		X		X	Required only if used when building OCCT
Gl2ps		X		X	Required only if used when building OCCT and/or Paraview
Gmsh	X		X		For GMSHPLUGIN only
Graphviz	X		X		In run-time required for YACS only
Hdf5	X		X		
Homard			X		For HOMARD module only
Intel TBB		X		X	Required if used when building OCCT and/or if used to build SMESH
Libbatch		X		X	Required only if used at compilation step for KERNEL
Libxml2	X		X		
Matplotib				X	Required only if used when building ParaView
Med	X		X		
Metis		X		X	Required only if used at compilation step for MED
Netgen	X		X		For NETGENPLUGIN only
Numpy (+ Lapack)		X		X	Required by MED
Omniorb	X		X		
Omniorbpy	X				
OCCT	X		X		
Opencv		X		X	Required only if used at compilation step for GEOM
Openmpi		X		X	Required only if used when building SALOME and/or pre-requisites
Paco++		X		X	Required only if used at compilation step for KERNEL
ParaView	X		X		Mandatory for PARAVIS module; optional for GUI module
Pyqt	X		X		
Python	X		X		
Qt	X		X		
Qwt	X		X		
Scotch		X		X	Required only if used at compilation step for MED
Sip	X				
Sphinx		X			Needed only for documentation generation
Swig	X				
Vtk	X		X		