

❖ 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 8.3.0 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	GUI (IAPP)	KERNEL	GEOM	SMESH	MED	YACS	PARAVIS	HOMARD	HEXABLOCK	NETGENPLUGIN	GHS3DPLUGIN	GHS3DPRPLUGIN	BLSURFPLUGIN	HexoticPLUGIN	HEXABLOCKPLUGIN	HYBRIDPLUGIN
gcc*	4.4***	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
Microsoft Visual C++**	2010	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
Python	2.7.10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Qt	5.6.1	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sip	4.18	X			X												
PyQt	5.6.0	X			X												
Boost	1.52.0	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	X	X	X	X	X	X
OCCT	7.1.0p1	X		X	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
OmniORBpy	3.6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hdf5	1.8.14	X	X	X	X	X		X	X		X	X	X	X	X	X	X
Med	3.2.1				X	X		X	X		X		X				
Vtk	7.1.0	X		X	X	X		X		X	X	X	X	X	X	X	X
numpy	1.9.2		X														
lapack	3.5.0		X														
graphviz	2.38.0	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
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	2.4-5											X	X	X	X		X
Sphinx	1.2.3		X	X	X		X		X	X							
libBatch	2.3.1		X														
Cgns	3.1.3				X												
ParaView	5.1.2	X						X									
Homard	11.8								X								

*) Linux only
 **) Windows only
 ***) Minimal required version

Product	Version	RANDOMIZER	SIERPINSKY	PYCALCULATOR	COMPONENT	CALCULATOR	HELLO	LIGHT	PYLIGHT	ATOMIC	ATOMGEN	ATOMSOLV	HXX2SALOME	YACSGEN	JOBMANAGER
gcc*	4.4**	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
Microsoft Visual C++**	2010	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
Qt	5.6.1		X		X	X	X	X		X	X	X	X		X
Sip	4.18				X						X				
PyQt	5.6.0				X				X		X				
Boost	1.52.0		X			X	X					X			X
Swig	2.0.8		X		X	X									
OCCT	7.1.0p1		X		X	X	X	X		X		X			
Qwt	6.1.2				X										
OmniORB	4.1.6	X	X	X	X	X	X				X	X			X
OmniORBpy	3.6	X	X	X	X	X	X				X	X			X
Hdf5	1.8.14		X		X	X		X		X					
Med	3.2.1		X	X	X	X									
Vtk	7.1.0		X		X			X	X	X		X			
graphviz	2.38.0	X	X	X	X		X			X					
Doxygen	1.8.3.1	X	X	X	X		X			X					
Sphinx	1.2.3														X

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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	
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	
Docutils	0.12	Sphinx	
Freeimage	3.16.0	Open CASCADE Technology	Optional
Freetype	2.4.11	Open CASCADE Technology, ParaView	
Gl2ps	1.3.9	Open CASCADE Technology, VTK, ParaView	Optional
H5py	2.5.0		Not used directly by SALOME
Intel TBB	4.2.4	Open CASCADE Technology, SMESH	Optional
Jinja2	2.7.3	Sphinx	
Markupsafe	0.23	Shinx	
Matplotlib	1.4.3	ParaView	Optional
Mpi4py	1.3.1		Not used directly by SALOME
Nose	1.3.7	H5py	
Opencv	2.4.6.1	GEOM	Optional

Product	Version	Required by	Comment
Openmpi	1.8.5	ParaView, Hdf5, Med, KERNEL, MED	Optional
Paco++	0.5.5	KERNEL	Optional
Pkgconfig	1.1.0	H5py	
Pygments	2.0.2	Sphinx	
Pyarsing	2.0.3	Matplotlib	
Python-dateutil	2.4.2	Matplotlib	
Pytz	2015.4	Matplotlib	
Scipy	0.15.1	Matplotlib	
Setuptools	0.6c11	Sphinx	
Six	1.9.0	Matplotlib	
Tcl	8.6.0	Open CASCADE Technology, Python	Optional
Tk	8.6.0	Open CASCADE Technology, Python	Optional
Tclx	8.4.1	Open CASCADE Technology, Python	Optional

SALOME 8.3.0 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
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		