

salome_meca 2019

Recommended installation procedure

for physical and virtual Linux systems
2019.0.3 LGPL universal edition

1 | ubuntu LTS 18.04

Physical system

1.1 | System prerequisites *(requires admin privileges)*

```
sudo -E apt update && sudo -E apt install -y --no-install-recommends \  
wget net-tools python python3 libbsd0 libbz2-1.0 libc6 libdbus-1-3 \  
libexpat1 libffi6 libfontconfig1 libfreeimage3 libfreetype6 \  
libgcc1 libgfortran3 libglib2.0-0 libglul-mesa libgomp1 libharfbuzz0b \  
libice6 libicu60 libilmbase12 libjbig0 libjpeg62 liblcms2-2 liblzma5 \  
libmng2 libmuparser2v5 libnlopt0 libnss-sss libopenblas-base \  
libopenexr22 libpcre3 libpng16-16 libquadmath0 libraw16 libreadline7 \  
libsm6 libssl1.0.0 libstdc++6 libtbb2 libtiff5 libtinfo5 libuuid1 \  
libx11-6 libx11-xcb1 libxau6 libxcb-glx0 libxcb1 libxcursor1 \  
libxdmcp6 libxext6 libxfixes3 libxi6 libxml2 libxmu6 libxrender1 \  
libxss1 libxt6 xterm x11-xkb-utils xkb-data zlib1g
```

1.2 | Download & install *(user home directory)*

```
# Choice of the version to install  
SMECA_VERSION=2019.0.3-1-universal  
  
# Automatically generate the archive filename and download link  
SMECA_TGZ=salome_meca- $\$SMECA\_VERSION$ .tgz  
SMECA_URL=https://code-aster.org/FICHIERS/ $\$SMECA\_TGZ$   
  
# Download the salome_meca installer archive and inflate the .tgz file  
INSTDIR=$(mktemp -d -t smeca-install-XXXXXXXXXX)  
cd  $\$INSTDIR$  && wget --no-check-certificate  $\$SMECA\_URL$  -O  $\$SMECA\_TGZ$   
tar xvf  $\$SMECA\_TGZ$   
  
# Install salome_meca in the default location ($HOME/salome_meca)  
sh  $\{\$SMECA\_TGZ/tgz/run\}$  -t  $\$HOME/salome_meca$  -l English -D -f  
  
# Cleanup  
rm -rf  $\$INSTDIR$ 
```

1.3 | Run

```
# Choice of the version to execute  
SMECA_VERSION=2019.0.3-1-universal  
cd  $\$HOME/salome_meca/appli\_V $\{\$SMECA\_VERSION\}$ /-1-univ/_univ$   
./salome
```

2 | ubuntu LTS 18.04 **Virtual system** (VirtualBox, VMWare, etc.)

2.1 | Prerequisites and installation

Apply steps 1.1 & 1.2 to configure the ubuntu 18.04 virtual system and install salome_meca.

2.2 | Patching graphical libs

```
# Choice of the version to patch
SMECA_VERSION=2019.0.3-1-universal

# Extra libraries and patched salome launcher download links
XTLIBS_URL=https://www.code-aster.org/FICHIERS/sm2019VM/sm19_ubuntu18_xtlibs.tgz
LAUNCHER_URL=https://www.code-aster.org/FICHIERS/sm2019VM/salome

# Patching the salome app directory (the previous launcher is backed up)
cd $HOME/salome_meca/appli_V${SMECA_VERSION}/-1-univ/_univ}

wget $XTLIBS_URL --no-check-certificate -O xtlibs.tgz
tar xvf xtlibs.tgz && rm -f xtlibs.tgz

mv salome salome_gpu
wget $LAUNCHER_URL --no-check-certificate -O salome_mesa && chmod ugo+x salome_mesa
ln -s salome_mesa salome
```

2.3 | Run

```
SMECA_VERSION=2019.0.3-1-universal
cd $HOME/salome_meca/appli_V${SMECA_VERSION}/-1-univ/_univ}
./salome
```