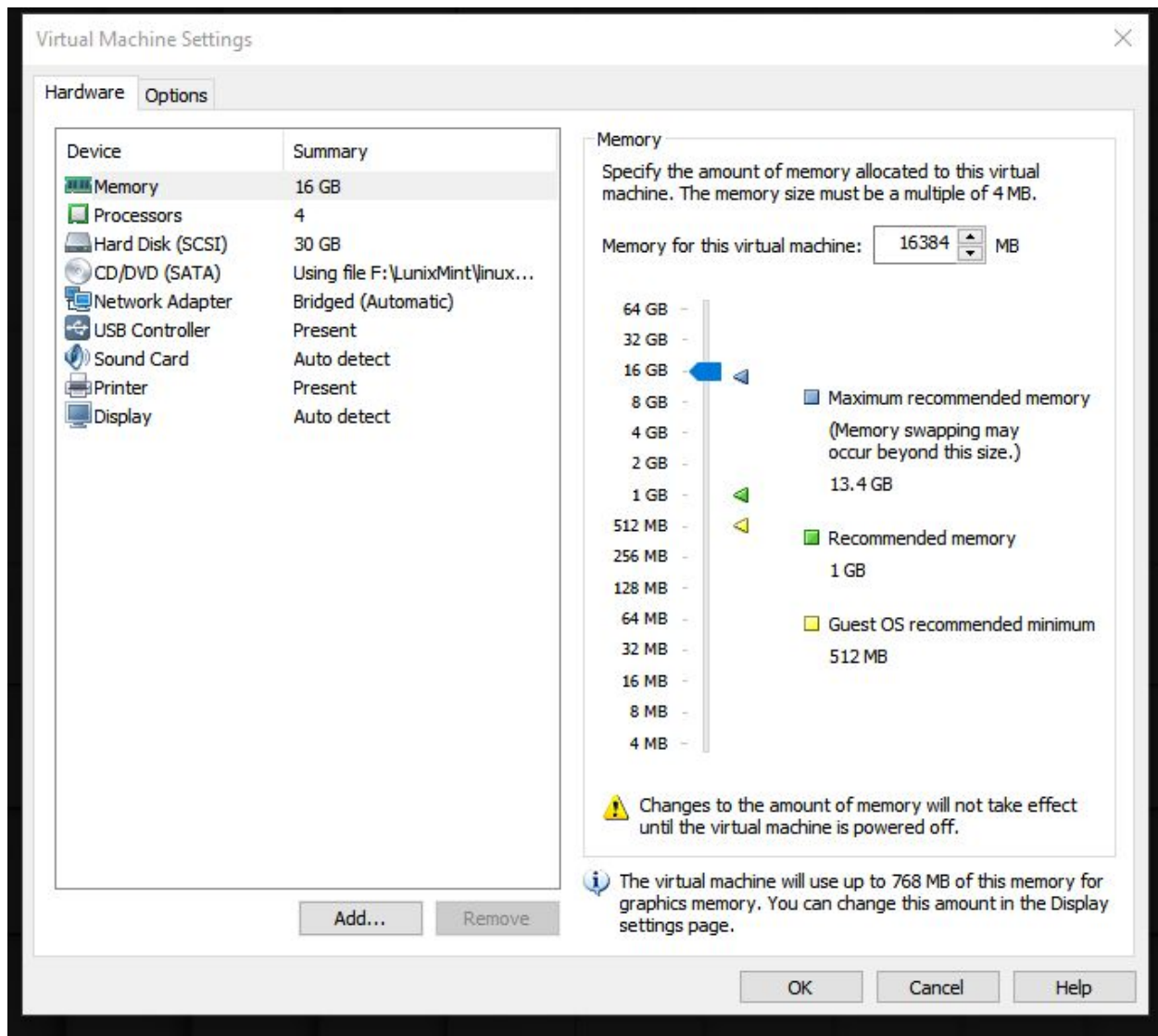
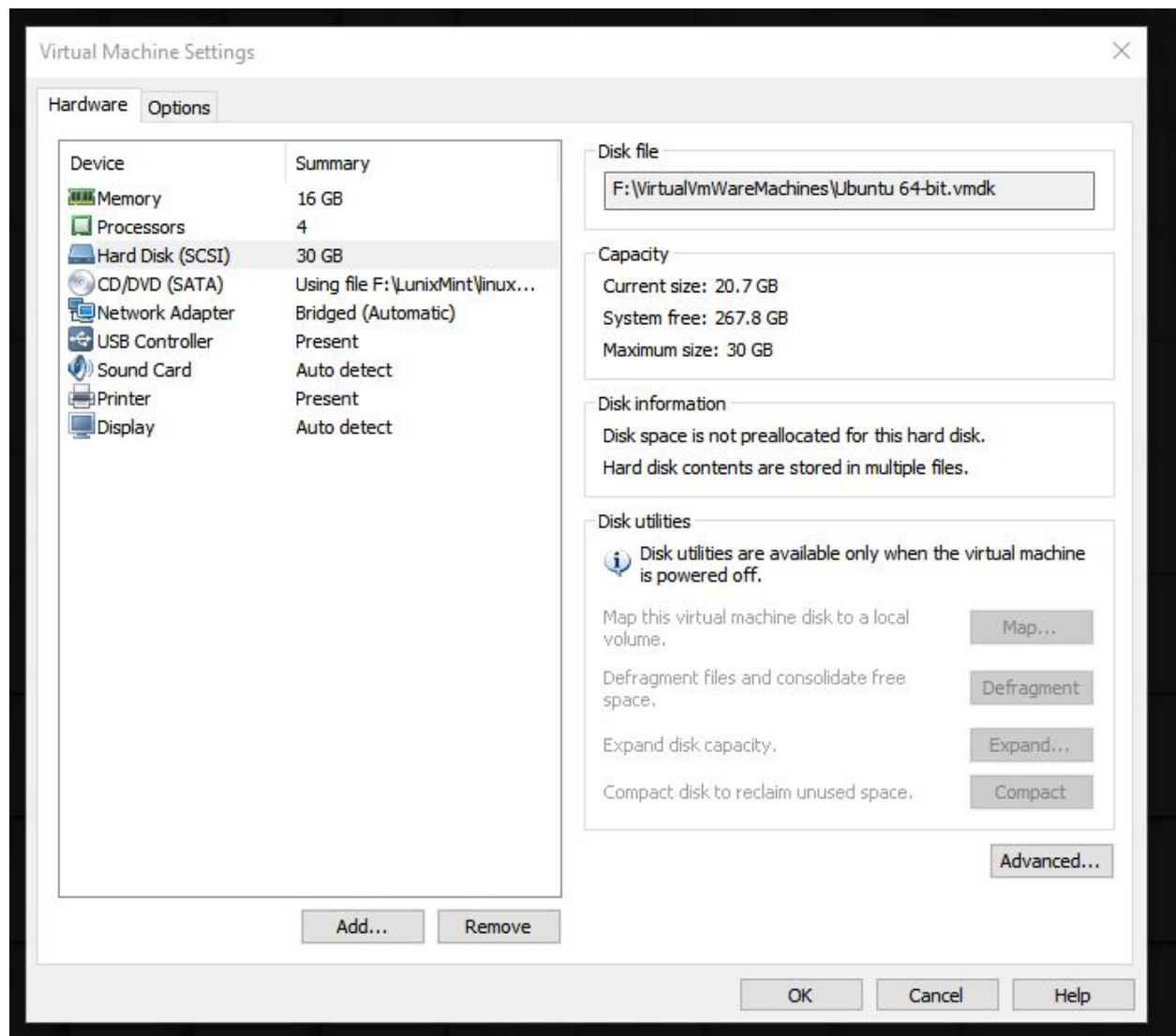


Build Paraview using QT Creator CMake

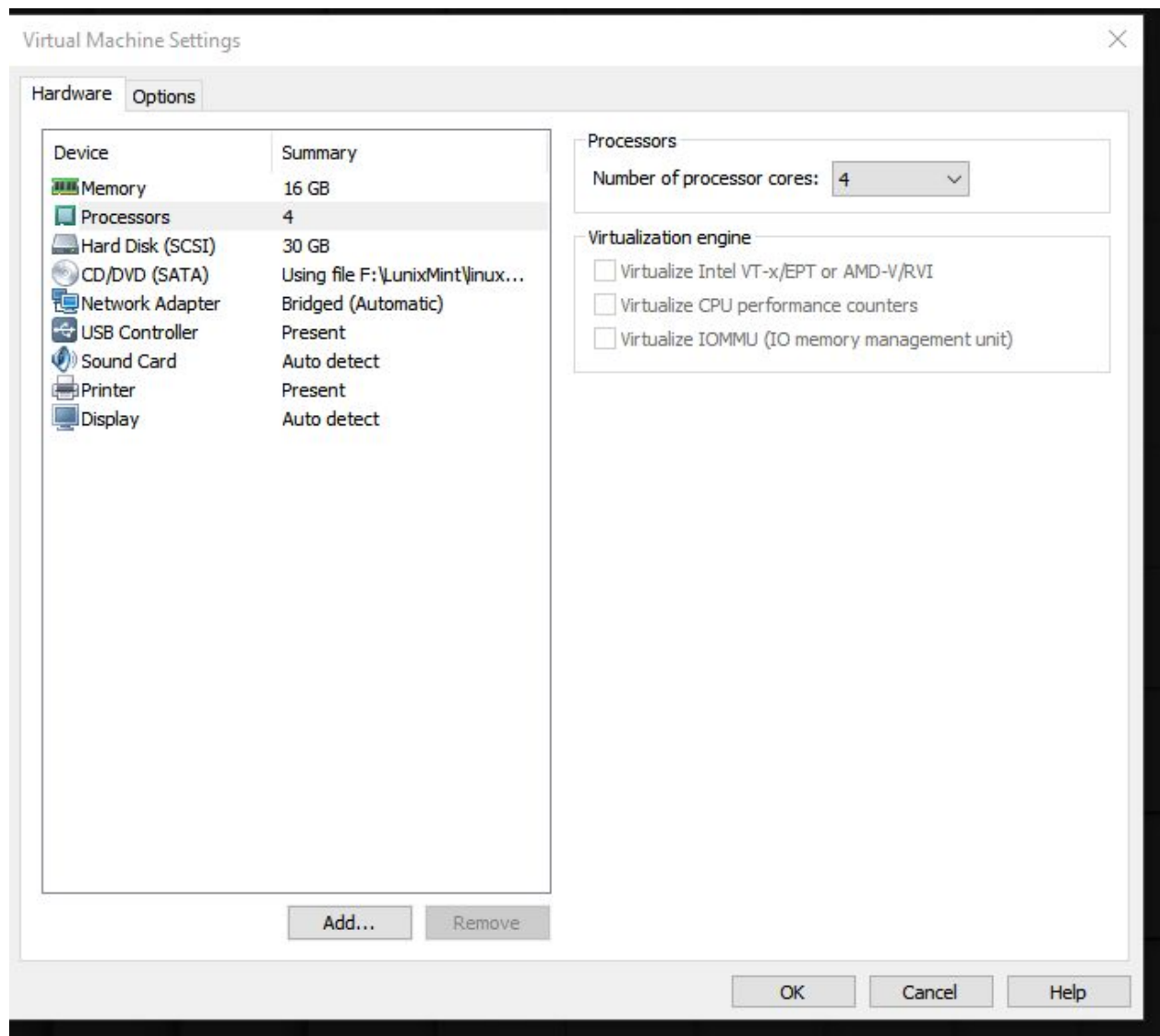
Build Paraview using QT Creator CMake #####
I will build it using VMWARE Linux Mint Ubuntu 64 #####
Paraview require large virtual Memory to build and run #####
Player -> Manage -> Virtual Machine Settings
Memory : 16 GB



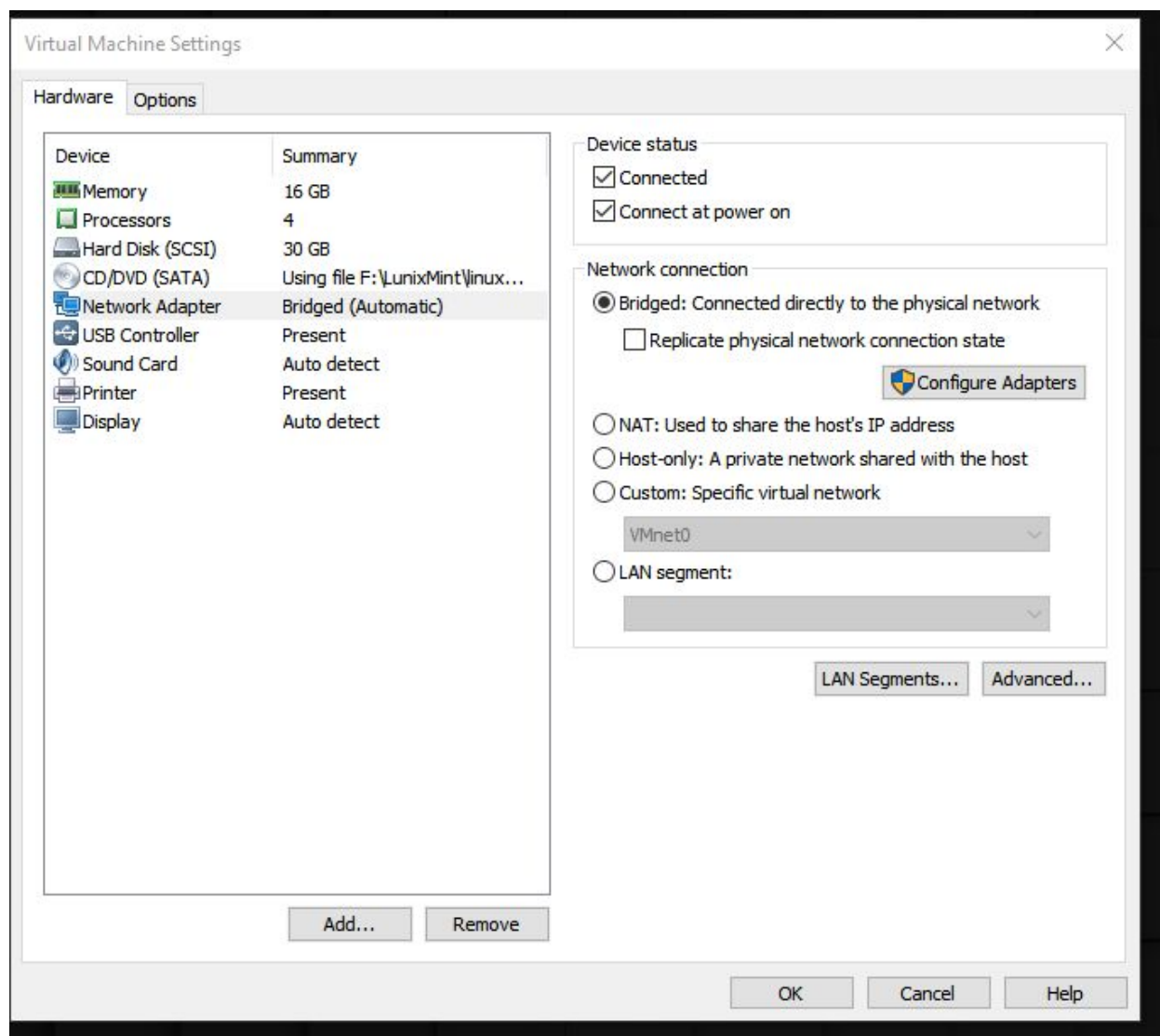
Hard Disk : 30 GB



Processors: 4



Network Adapter: Bridged



Run the following commands. Make sure there are no errors. If the errors happened they must be resolved.

```
#####  
sudo apt install g++-5  
sudo apt install gcc-5  
sudo apt-get install -y build-essential  
sudo apt-get install qtcreator  
sudo apt-get install qt5-default  
sudo apt-get install qt5-doc  
sudo apt-get install libfontconfig1
```

```
#####  
sudo apt-get update  
sudo apt-get upgrade  
sudo apt-get install cmake  
which cmake  
/usr/bin/cmake  
cmake --version  
cmake version 3.10.2
```

```
#####  
sudo apt-get install qt5-doc-html qtbase5-doc-html
```

```
sudo apt-get install qtbase5-dev  
sudo apt-get install qtbase5-examplesqt
```

```
sudo apt-get install qtdeclarative5-dev
```

```
sudo apt-get install python-qt5 qt5-designer  
sudo apt-get install python-qt4 qt4-designer
```

```
#####  
##### Download Paraview Source from #####
```

```
https://www.paraview.org/download/
```

```
ParaView-v5.8.0.tar.xz
```

```
create debug directory  
mkdir debug  
Open qt creator CMakeLists.txt project  
in qt creator set build directory to debug  
set working directory to debug
```

GUI for Paraview created Using QT Designer

```
##### install QT Designer #####
```

```
sudo apt-get install qttools5-dev-tools  
sudo apt-get install qttools5-dev  
cd /usr/lib/x86_64-linux-gnu/qt5/bin/  
./designer
```

install library required to build Paraview

```
sudo apt-get install libqt5x11extras5-dev  
sudo apt-get install libqt5svg5*  
sudo apt-get install libxt-dev
```

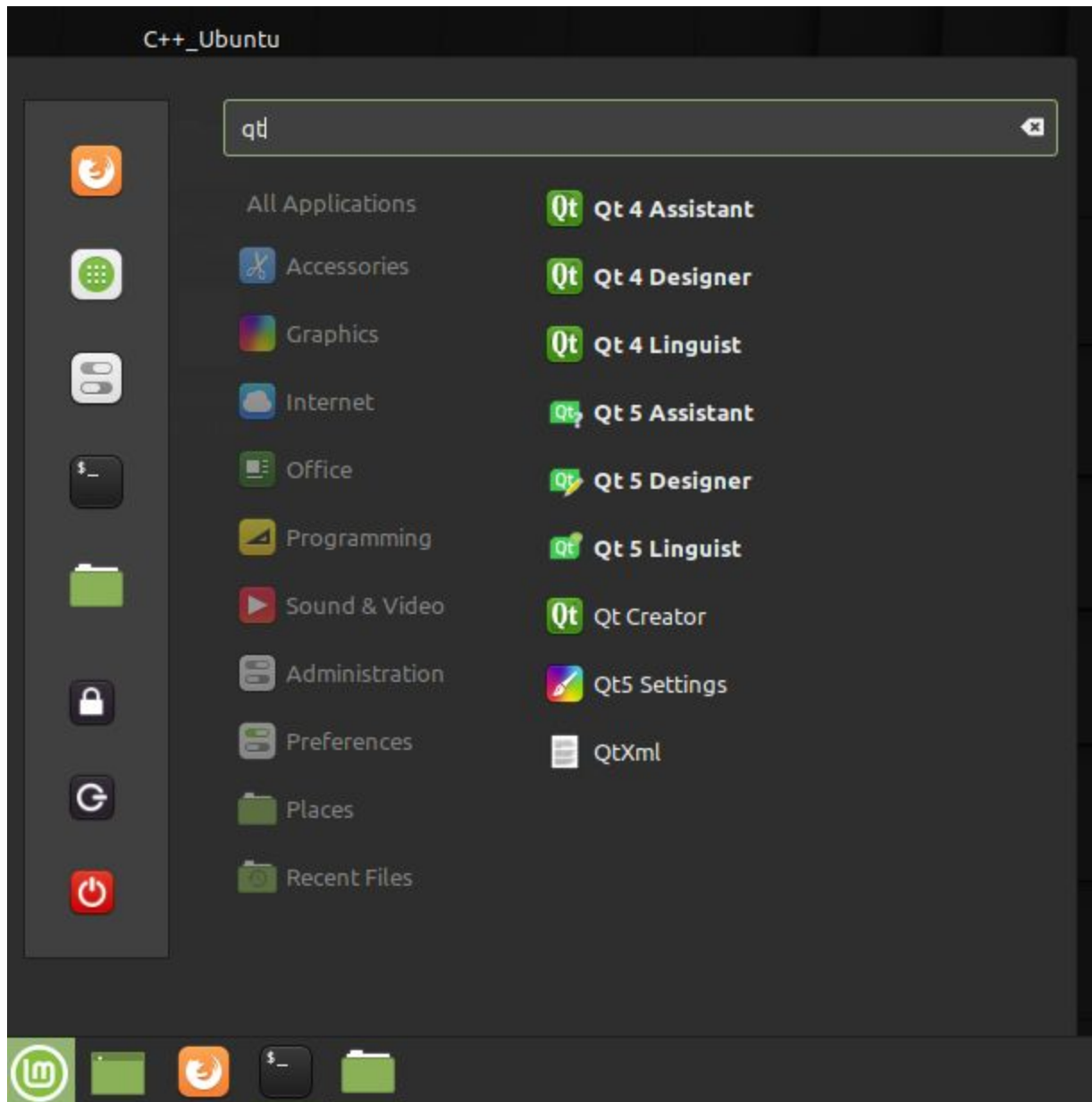
#####

If building gives error complaining about
xmllpatterns run the following command
run cmake and build again

```
sudo apt-get install qt4-dev-tools --no-install-recommends
```

#####

Start QT Creator

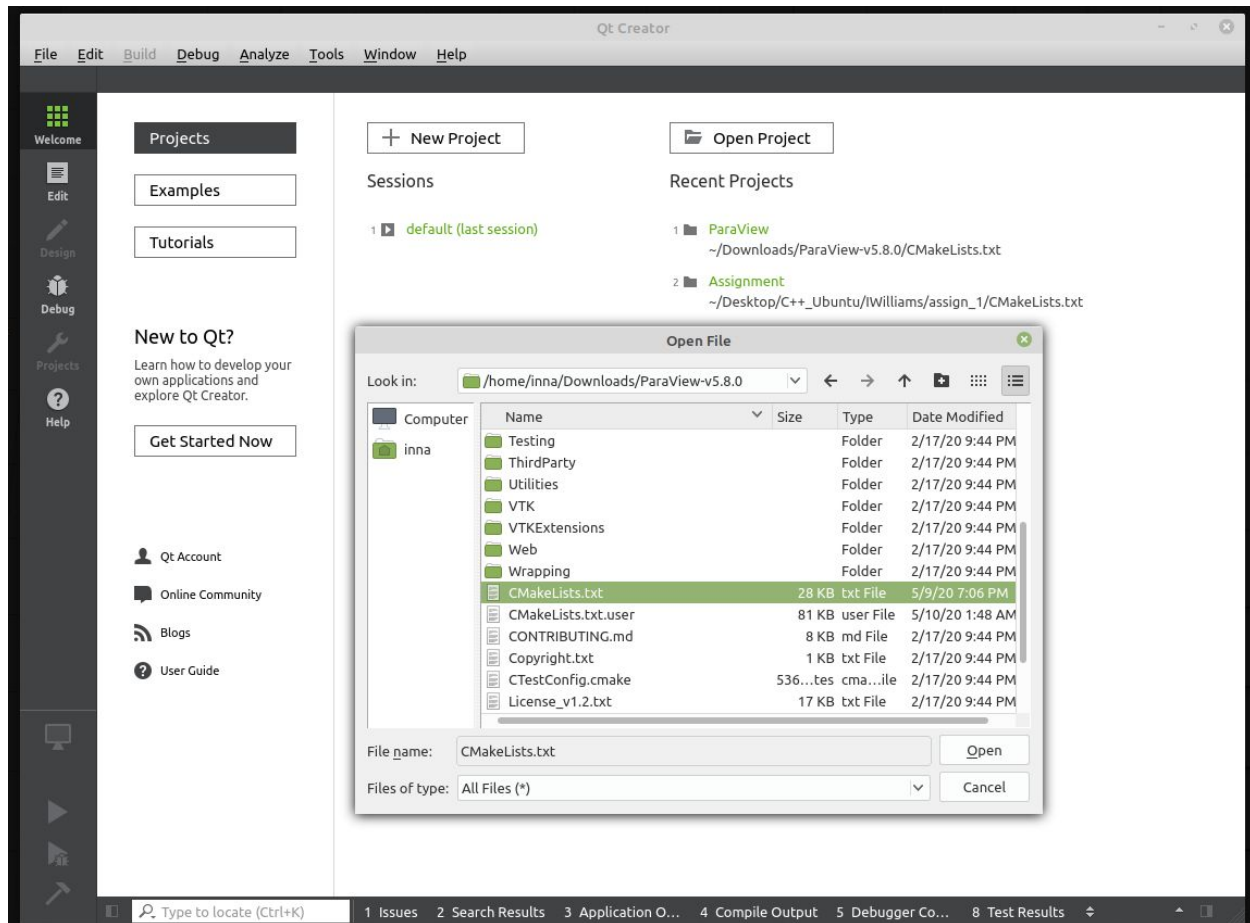


File -> Open File Or Project

Got to an unzipped directory.

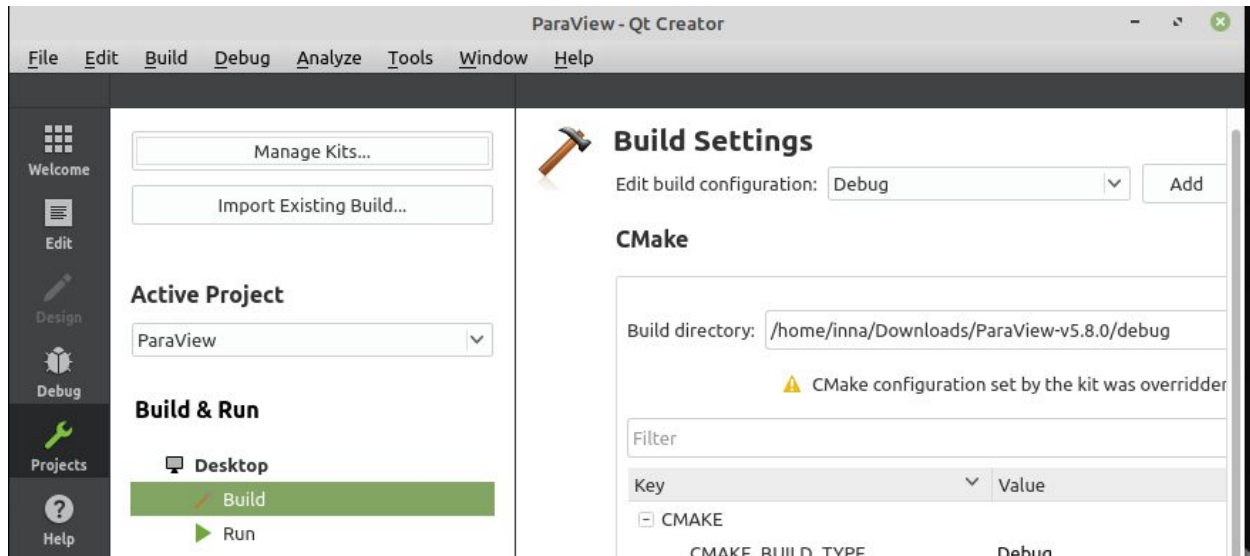
I unzipped into /home/inna/Downloads/Paraview-v5.8.0

Select CmakeLists.txt

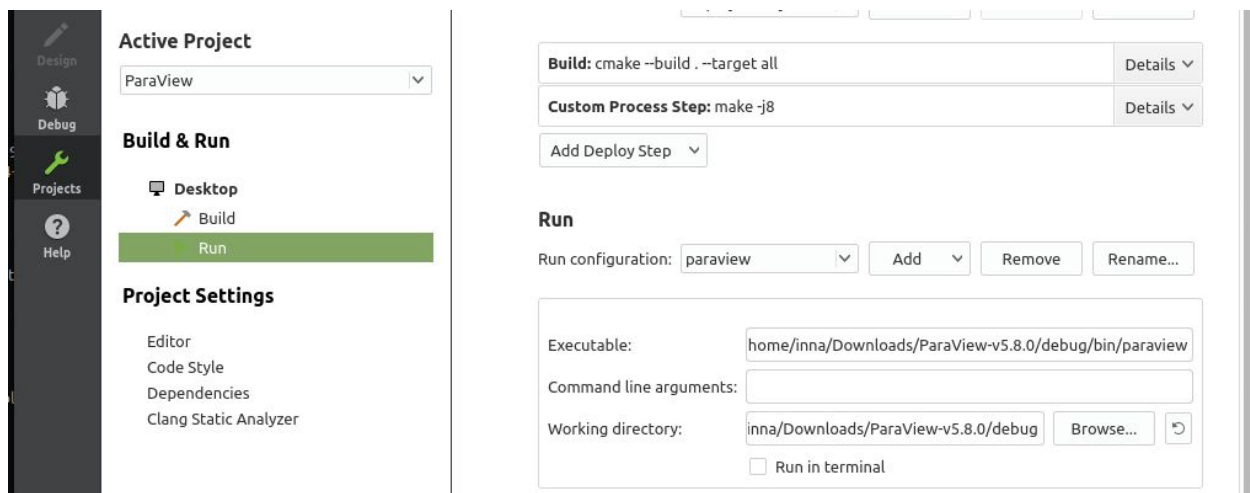


For the first time the project is open you will see configure screen where you can set Build and debug directory. I already created my debug directory and so I browse to this Directory to set it as a build directory.
Click configure

On the Left side of the QT creator IDE click Projects to check where the project will be build.



Click on Run
Browse to the working directory



First time when the project is not build

Under Run select building directory.

In my case it is debug

When the executable will be created it will automatically fill Executable directory.

This build created the additional directory under the debug : bin directory where it

Will put the paraview executable.

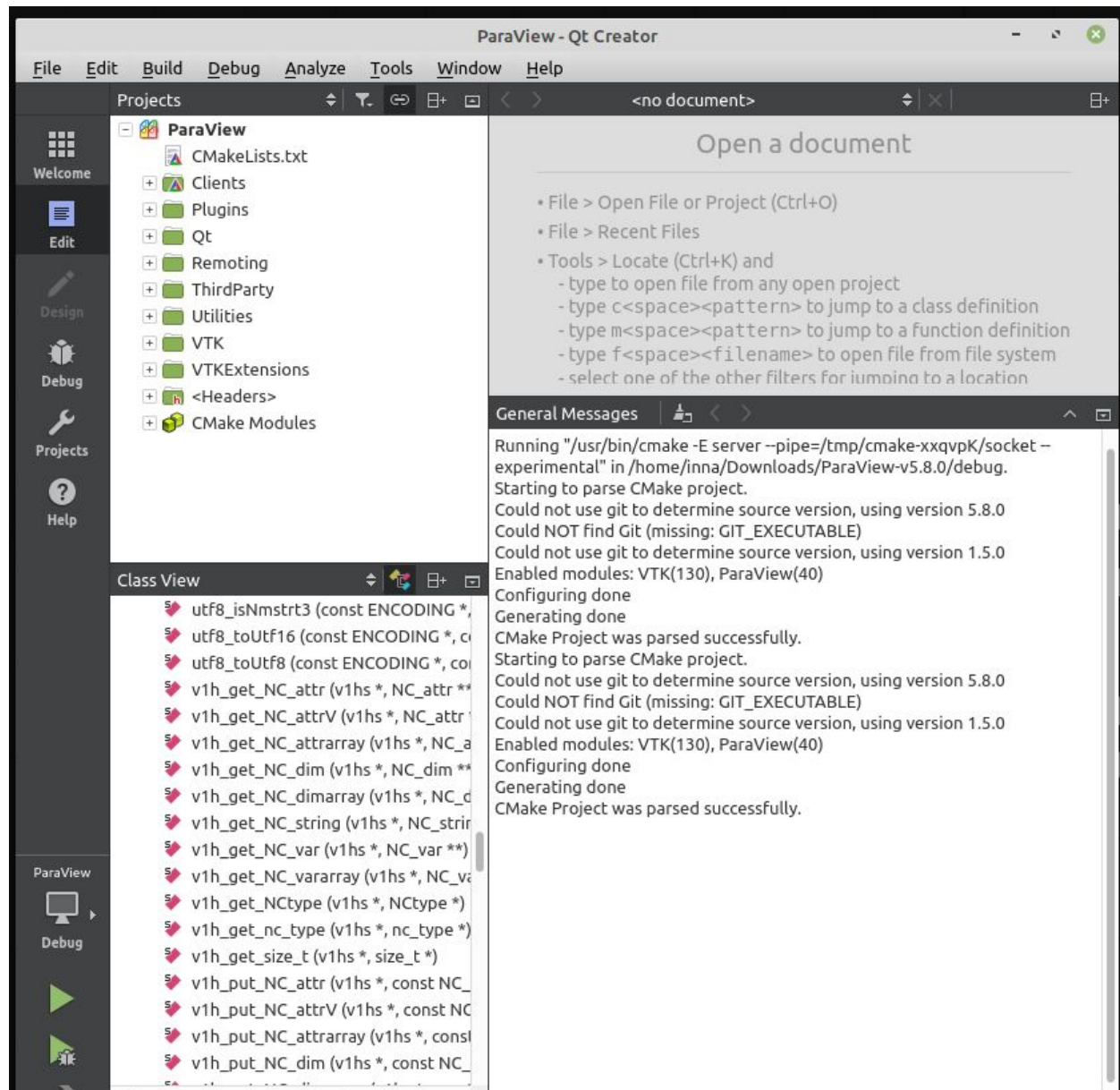
Make sure to set permissions that allow you to write and install in the debug directory.

Sudo chmod 777 debug/*.*

Click Open
Build -> Run CMake



Make sure that
CMake Project was parsed successfully

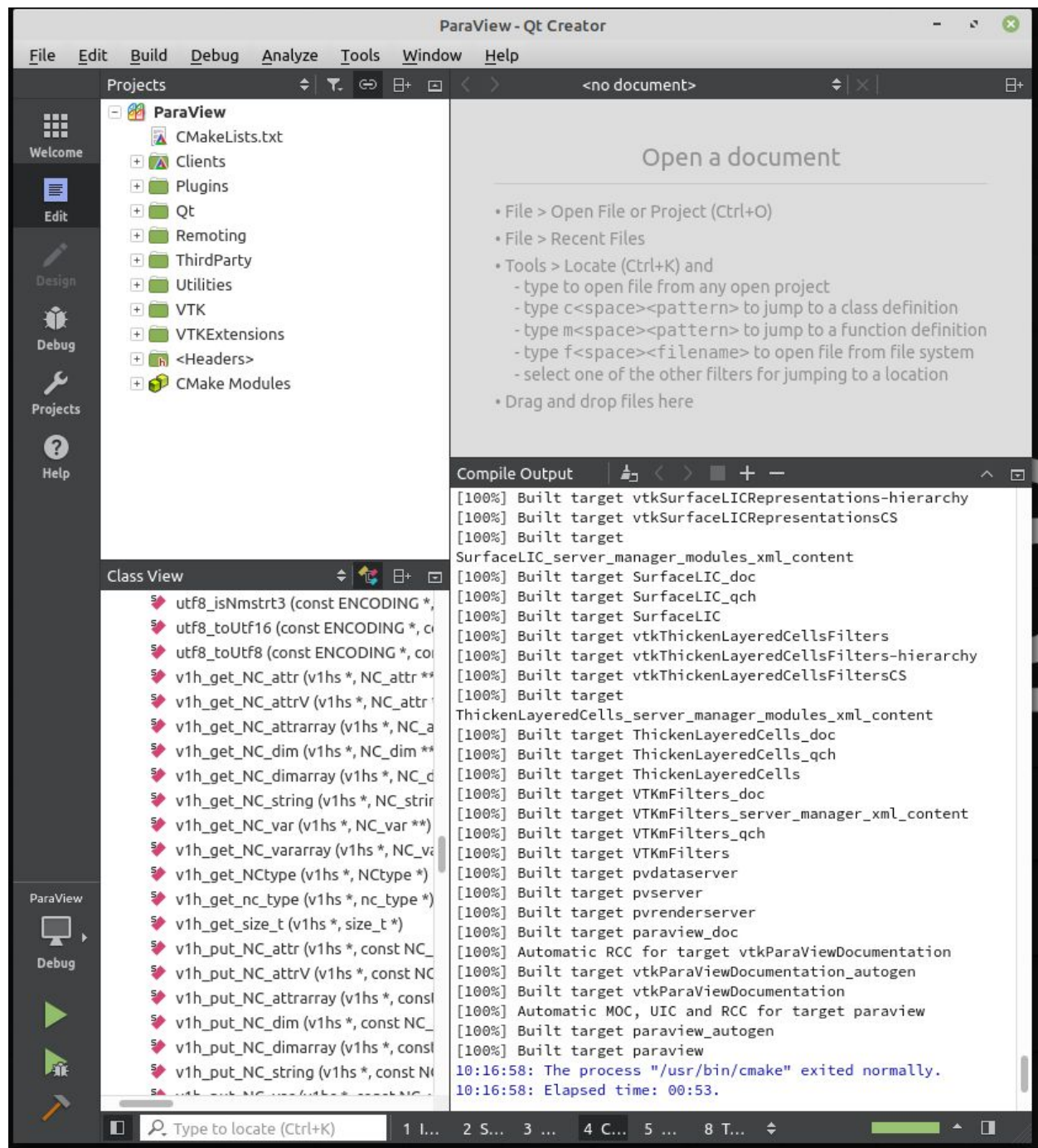


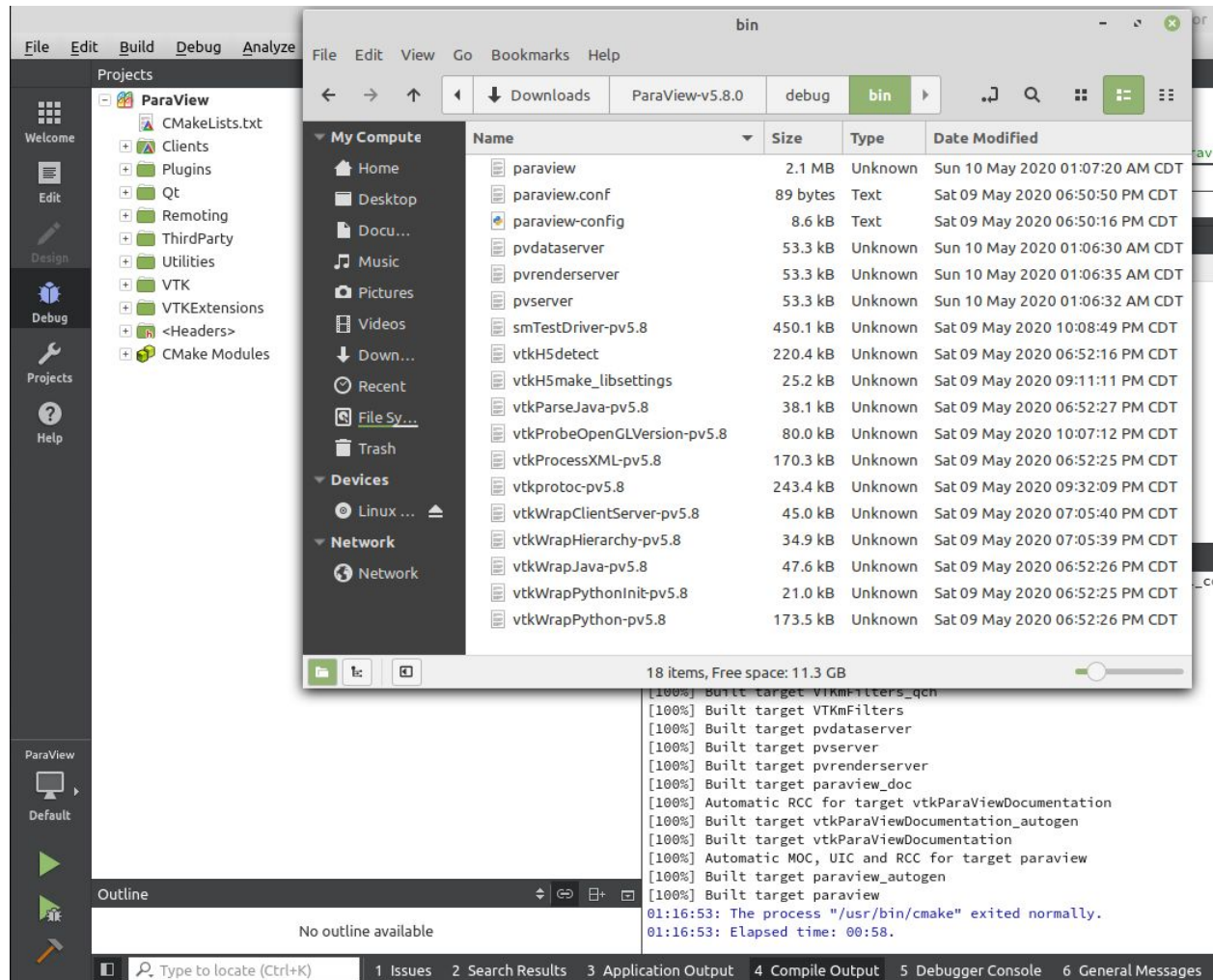
Build -> Build all

It take very long to build but after it builds ones with no errors

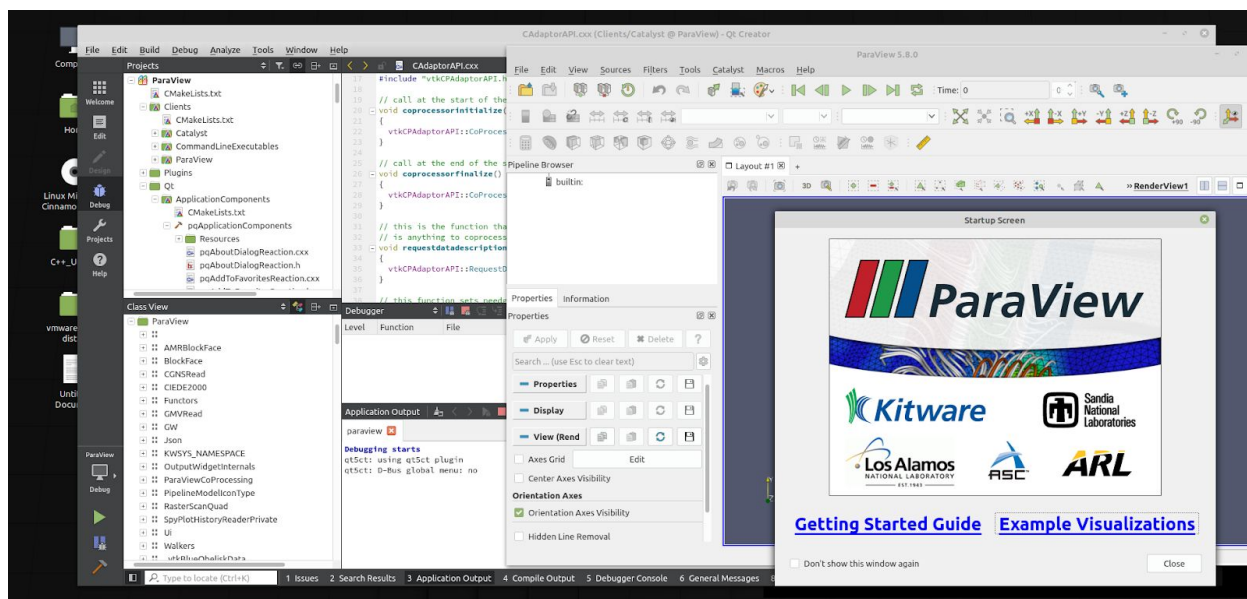
Then you can use

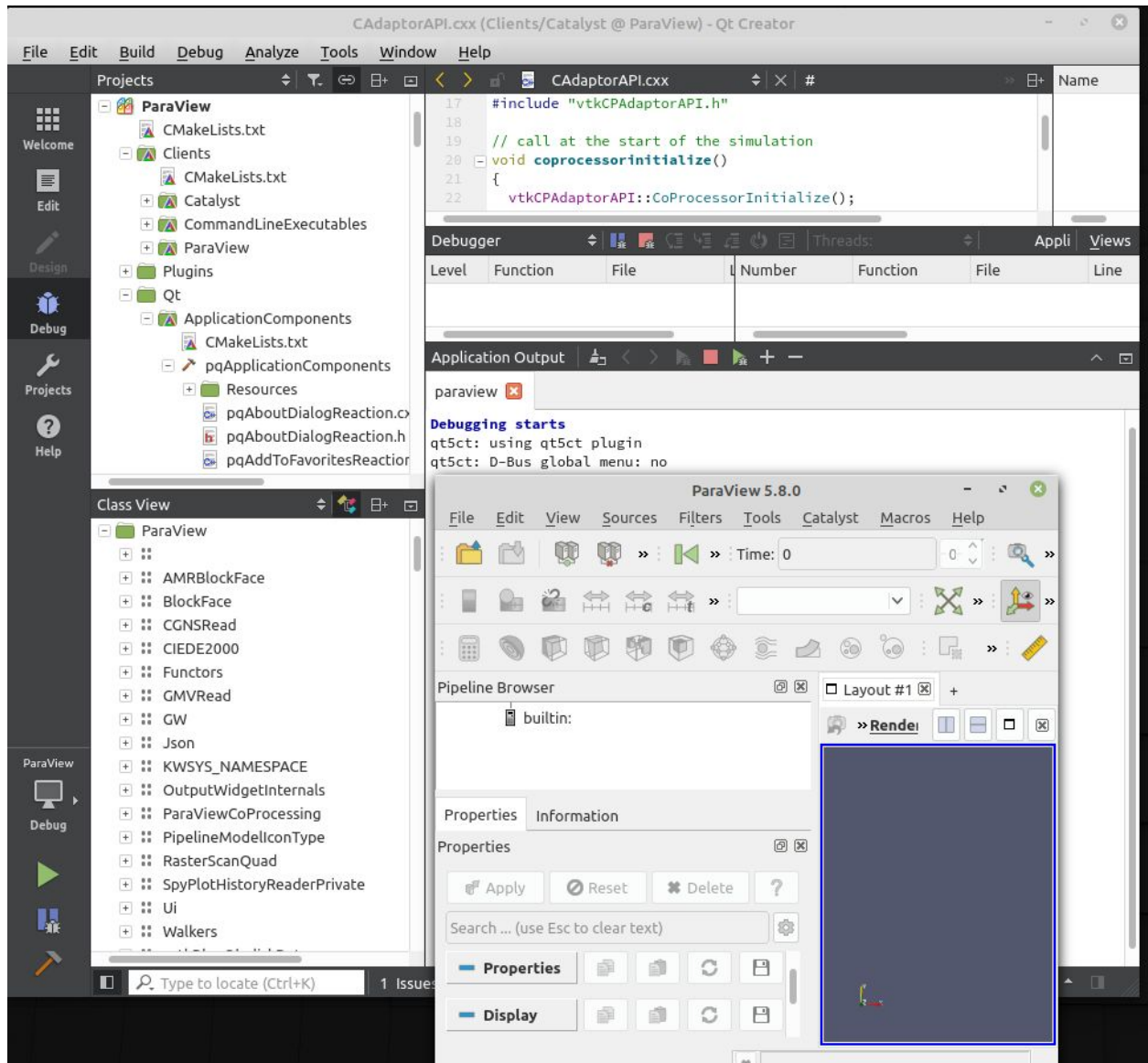
Build -> Build Project Paraview





Start Project in Debug Mode
:Debug -> Start Debugging





To run from command line

cd Downloads/ParaView-v5.8.0/debug/bin

```
inna@inna-virtual-machine: ~/Downloads/ParaView-v5.8.0/debug/bin
File Edit View Search Terminal Help
inna@inna-virtual-machine:~$ cd Downloads/ParaView-v5.8.0/debug/bin
inna@inna-virtual-machine:~/Downloads/ParaView-v5.8.0/debug/bin$ ls
paraview          smTestDriver-pv5.8      vtkprotoc-pv5.8
paraview.conf     vtkH5detect              vtkWrapClientServer-pv5.8
paraview-config   vtkH5make_libsettings    vtkWrapHierarchy-pv5.8
pvdataserver      vtkParseJava-pv5.8       vtkWrapJava-pv5.8
pvrenderserver    vtkProbeOpenGLVersion-pv5.8  vtkWrapPythonInit-pv5.8
pvserver          vtkProcessXML-pv5.8       vtkWrapPython-pv5.8
inna@inna-virtual-machine:~/Downloads/ParaView-v5.8.0/debug/bin$
```

Executable : paraview

Run

./paraview

```
File Edit View Search Terminal Help
inna@inna-virtual-machine:~$ cd Downloads/ParaView-v5.8.0/debug/bin
inna@inna-virtual-machine:~/Downloads/ParaView-v5.8.0/debug/bin$ ls
paraview          smTestDriver-pv5.8      vtkprotoc-pv5.8
paraview.conf     vtkH5detect              vtkWrapClientServer-pv5.8
paraview-config   vtkH5make_libsettings    vtkWrapHierarchy-pv5.8
pvdataserver      vtkParseJava-pv5.8       vtkWrapJava-pv5.8
pvrenderserver    vtkProbeOpenGLVersion-pv5.8  vtkWrapPythonInit-pv5.8
pvserver          vtkProcessXML-pv5.8       vtkWrapPython-pv5.8
inna@inna-virtual-machine:~/Downloads/ParaView-v5.8.0/debug/bin$ ./paraview
qt5ct: using qt5ct plugin
qt5ct: D-Bus global menu: no
```