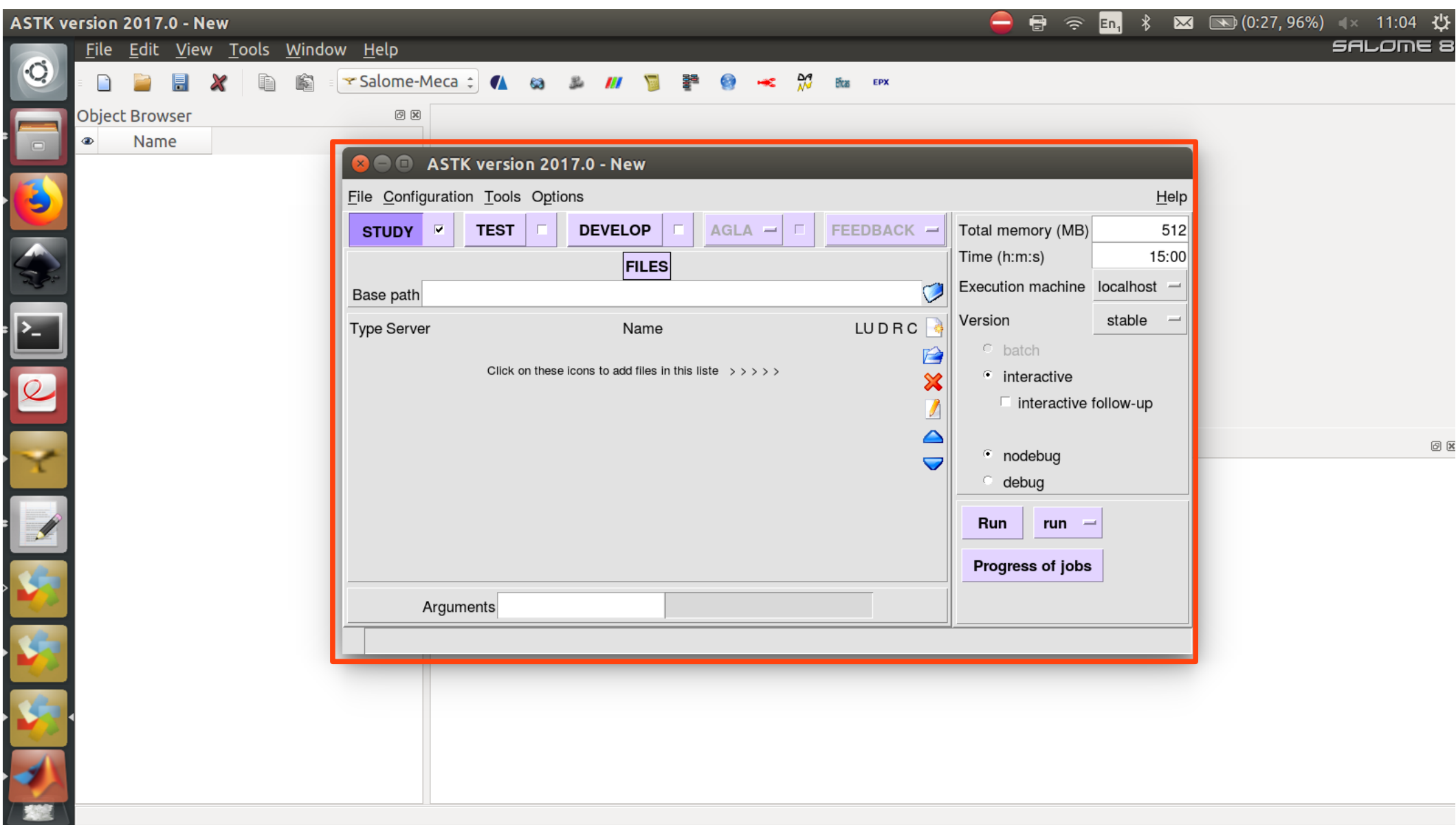


Step by step guide on how to run an astk job

From salome-meca with an empty job open go to:

Tools → plugins → Salome-meca → Run astk

you will see the window highlighted in red opening:



In the base path line, put the path to the folder with your files:

The screenshot shows the ASTK version 2017.0 - New (modified) window. The 'Base path' field is highlighted with a red box and contains the path `/home/av3116/Downloads/Cantilever_Quadratic_Manifold/astk`. The window also shows tabs for **STUDY**, **TEST**, **DEVELOP**, **AGLA**, and **FEEDBACK**. The 'Run' button is visible at the bottom right of the configuration panel.

in the base path you put the path to your astk folder

Input the relative location of your .comm file as unite=1 (LU) and put the extension (on the left) as comm:

ASTK version 2017.0 - New (modified)

File Configuration Tools Options

STUDY ☒ TEST ☐ DEVELOP ☐ AGLA ☐ FEEDBACK ☐

FILES

Base path /home/av3116/Downloads/Cantilever_Quadratic_Manifold/astk

Type	Server	Name	LU	D	R	C
comm	Local	./Modes_and_SMD.comm	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Arguments

Total memory (MB) 15012
Time (h:m:s) 250:00
Execution machine localhost
Version stable

☐ batch
☒ interactive
☐ interactive follow-up

☐ nodebug
☐ debug

Run run

Progress of jobs

Name of the file or directory absolute or relative from base path

Riepiloghi Uber La tua corsa con Uber di mercoledì sera - T...

ICU-BookClub [Book Club] The Most Important Book Club

Mayor of London Whatever the weather - Hello, If you're like

James Hayton PhD The PhD Academy: All Access Pass - Hello

e-Documents Low balance: A/C ending 0052 - Please add

Input the relative location of mesh file as unite=20 (LU) and put the extension (on the left) as mmed:

Beware that the number 20 has to match what you have in the comm file. You can choose any number but those beginning with 2 are referred to the mesh usually

ASTK version 2017.0 - New (modified)

Open ▾

import_results_from_code_aster_qm.m x import_results_from_code_aster_qm.m x Modes_and_SMD.astk x Modes_and_SMD.comm x

```
1 #####
2 ### CODE_ASTER INPUT FILE          ##
3 #####
4
5
6 import numpy as np
7 import scipy.io as sio
8
9 DEBUT(PAR_LOT='NON')
10
11 # ENTER THE ABSOLUTE PA
12 path='/home/av3116/Down
13
14
15 # The only parameters t
16 # The modal amplitude i
17 # The value of tip disp
18 # The mode number under
19
20
21 #####
22 ## SETUP THE MODEL
23 #####
24
25
26 mesh = LIRE_MALLAGE(FO
27 UN
28
29
30 model = AFFE_MODELE(AFFE=_F(MODELISATION=('3D', ),
31                               PHENOMENE='MECANIQUE',
32                               TOUT='OUI'),# DISTRIBUTION=_F(METHODE='GROUP_ELEM'),
33                               MAILLAGE=mesh);
34
35 mater = DEFI MATERIAU(ELAS= F(E=104e+09,
```

ASTK version 2017.0 - New (modified)

File Configuration Tools Options Help

STUDY ☒ TEST ☐ DEVELOP ☐ AGLA ☐ FEEDBACK ☐

FILES

Base path /home/av3116/Downloads/Cantilever_Quadratic_Manifold/astk

Type	Server	Name	LU	D	R	C
comm	Local	/Modes_and_SMD comm	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
mmed	Local	tilever_Quadratic_Manifold/Mesh/Mesh.mmed	20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Arguments

Total memory (MB) 15012
Time (h:m:s) 250:00
Execution machine localhost
Version stable

☐ batch
☒ interactive
☐ interactive follow-up

☐ nodebug
☐ debug

Run run

Progress of jobs

Matlab ▾ Tab Width: 8 ▾ Ln 27, Col 29 ▾ INS

Input the relative location of the log file (called mess in askt) as unite=6 (LU) and put the extension (on the left) as mess:

ASTK version 2017.0 - New (modified)

File Configuration Tools Options Help

STUDY ☒ **TEST** ☐ **DEVELOP** ☐ **AGLA** ☐ **FEEDBACK** ☐

FILES

Base path /home/av3116/Downloads/Cantilever_Quadratic_Manifold/askt

Type	Server	Name	LU	D	R	C
comm	Local	./Modes_and_SMD.comm	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
mmed	Local	./Cantilever_Quadratic_Manifold/Mesh/Mesh.mmed	20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
mess	Local	./Modes_and_SMD.mess	6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Arguments

Total memory (MB) 15012
Time (h:m:s) 250:00
Execution machine localhost
Version stable

☐ batch
☒ interactive
☐ interactive follow-up

☐ nodebug
☐ debug

Run **run**

Progress of jobs

If you have some output to be viewed in ParaVis, input the relative location of your output as unite=81 (LU) and put the extension (on the left) as resu:

Beware that the number 81 has to match what you have in the comm file. You can choose any number but those beginning with 8 are referred to the rmed output usually

The screenshot shows the ASTK version 2017.0 - New (modified) window. The 'FILES' tab is selected, and the 'Base path' is set to `/home/av3116/Downloads/Cantilever_Quadratic_Manifold/astk`. The table below lists the files:

Type	Server	Name	LU	D	R	C
comm	Local	./Modes_and_SMD.comm	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
mmed	Local	tilever_Quadratic_Manifold/Mesh/Mesh.med	20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
mess	Local	./Modes_and_SMD.mess	6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
resu	Local	./Modes_and_SMD.rmed	81	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

The 'resu' row is highlighted with a red rectangle. The 'Arguments' field is empty. The 'Run' button is visible, and the 'Progress of jobs' section is also shown.

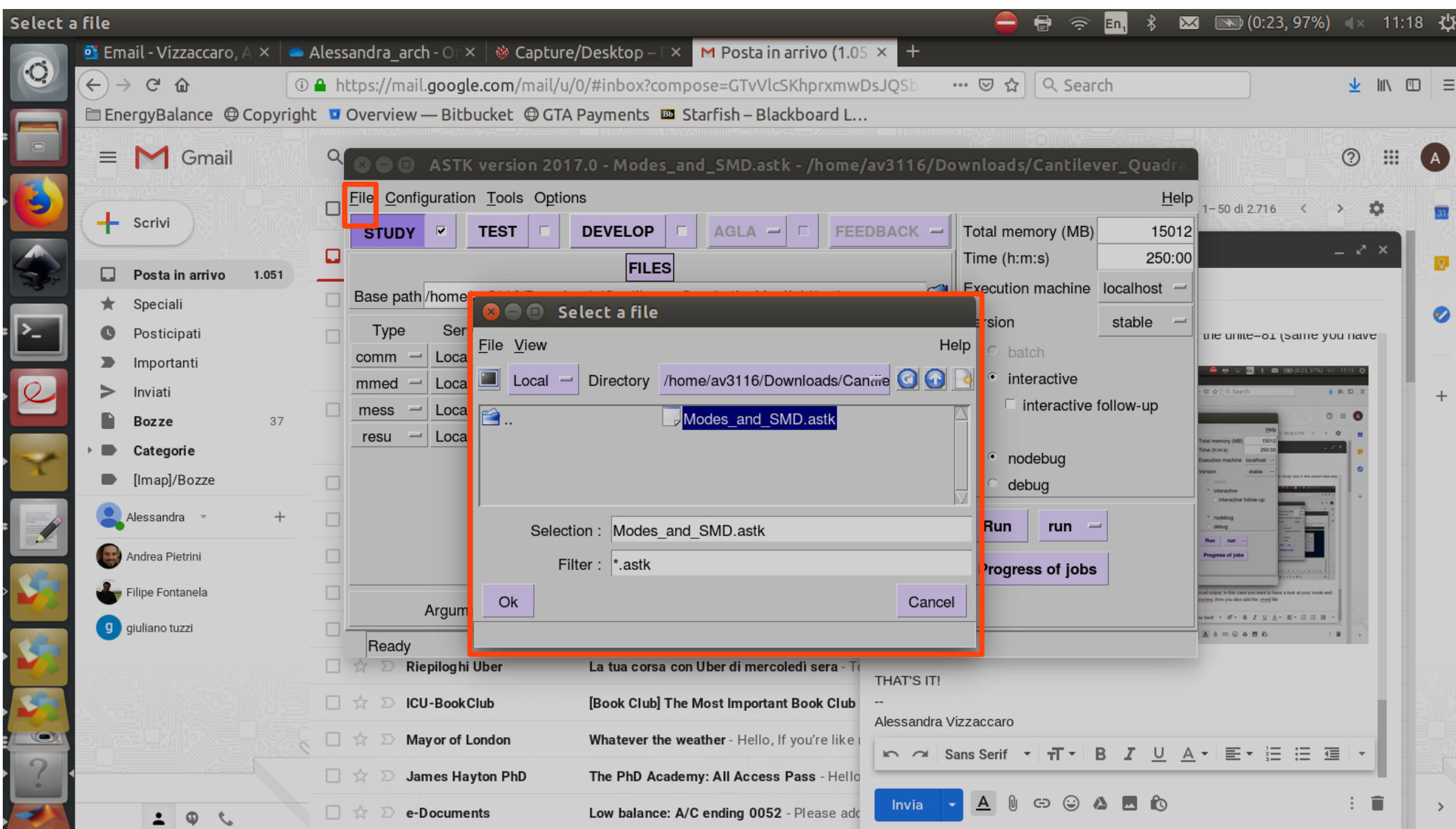
Below the table, there is a text area with the following text:

If you have a visual output, in this case you want to have a look at your mode and SMD inside ParaView, then you also add the .rmed file

If you don't want to do all these operations again, you can simply click on

File → Save as

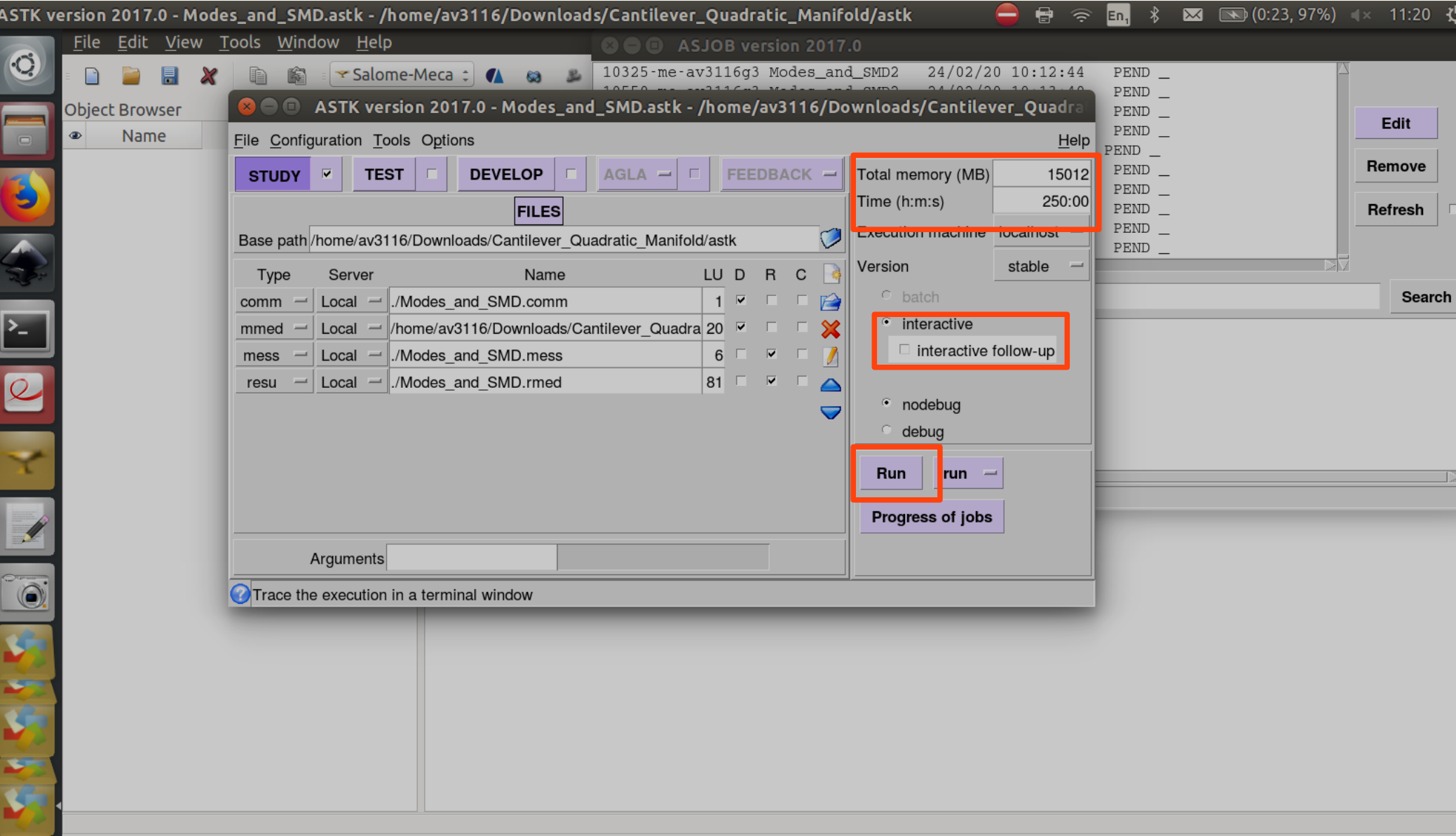
and the window highlighted in red will open. Save your askt configuration as a file .askt



Then you can click on Run.

Remember to tick the interactive follow-up box (not like in the pic...) to see the log window while running.

Also, be sure the time and memory are enough or it will stop. On my laptop the max MB is 15000 and I usually put 15 hours for the time.



Enjoy!