

CHECKING INSTALLATION

Geant4 CERN Tutorial

Monday, 15 January 2010



Geant 4

Test CernVM

1. Login into CernVM
2. Create workdir: `mkdir $G4WORKDIR`
3. Cd into it: `cd $G4WORKDIR`
4. Test G4:
 1. `cp -r $G4INSTALL/examples/novice/N01 .`
 2. `cd N01`
 3. `gmake`
 4. `exampleN01`

```
adotti@localhost:~/geant4/N01
20      890      0      289      1e+03      0      80.4      2.9e+03      caloLayer Transportation
21      910      0      291      1e+03      0      20.1      2.92e+03      caloBlock Transportation
22      990      0      299      1e+03      0      80.4      3e+03         caloLayer Transportation
23 1.01e+03  0      301      1e+03      0      20.1      3.03e+03      caloBlock Transportation
24 1.09e+03  0      309      1e+03      0      80.4      3.11e+03      caloLayer Transportation
25 1.11e+03  0      311      1e+03      0      20.1      3.13e+03      caloBlock Transportation
26 1.19e+03  0      319      1e+03      0      80.4      3.21e+03      caloLayer Transportation
27 1.21e+03  0      321      1e+03      0      20.1      3.23e+03      caloBlock Transportation
28 1.29e+03  0      329      1e+03      0      80.4      3.31e+03      caloLayer Transportation
29 1.31e+03  0      331      1e+03      0      20.1      3.33e+03      caloBlock Transportation
30 1.39e+03  0      339      1e+03      0      80.4      3.41e+03      caloLayer Transportation
31 1.41e+03  0      341      1e+03      0      20.1      3.43e+03      caloBlock Transportation
32 1.49e+03  0      349      1e+03      0      80.4      3.51e+03      caloLayer Transportation
33 1.51e+03  0      351      1e+03      0      20.1      3.53e+03      caloBlock Transportation
34 1.59e+03  0      359      1e+03      0      80.4      3.61e+03      caloLayer Transportation
35 1.61e+03  0      361      1e+03      0      20.1      3.63e+03      caloBlock Transportation
36 1.69e+03  0      369      1e+03      0      80.4      3.71e+03      caloLayer Transportation
37 1.71e+03  0      371      1e+03      0      20.1      3.73e+03      caloBlock Transportation
38 1.79e+03  0      379      1e+03      0      80.4      3.81e+03      caloLayer Transportation
39 1.81e+03  0      381      1e+03      0      20.1      3.83e+03      caloBlock Transportation
40 1.89e+03  0      389      1e+03      0      80.4      3.91e+03      caloLayer Transportation
41 1.91e+03  0      391      1e+03      0      20.1      3.93e+03      caloBlock Transportation
42      2e+03      0      400      1e+03      0      90.4      4.02e+03      expHall Transportation
43      3e+03      0      500      1e+03      0      1e+03      5.02e+03      OutOfWorld Transportation

Track (trackID 1, parentID 0) is processed with stopping code 2
NULL returned from G4StackManager.
Terminate current event processing.
Run terminated.
Run Summary
  Number of events processed : 3
  User=0.01s Real=0.11s Sys=0s
G4 kernel has come to Quit state.
+++++
Maximum number of tracks in the urgent stack : 1
+++++
```

Test OpenGL

1. `cd $WORKDIR`
2. `cp -r $G4INSTALL/examples/novice/N03 .`
3. `cd N03`
4. `gmake`
5. `exampleN03`
6. `Idle> /run/beamOn 1`
7. `Idle> exit`

1. `unset G4UI_USE_TCSH`
2. `unset G4UI_USE_XM`
3. Edit `vis.mac` and change `/vis/open OGLIX` to `/vis/open OGLIQt`
4. `touch exampleN03.cc`
5. `gmake`
6. `exampleN03`
7. `>/run/beamOn 1`
8. test mouse functionalities
9. `> exit`

