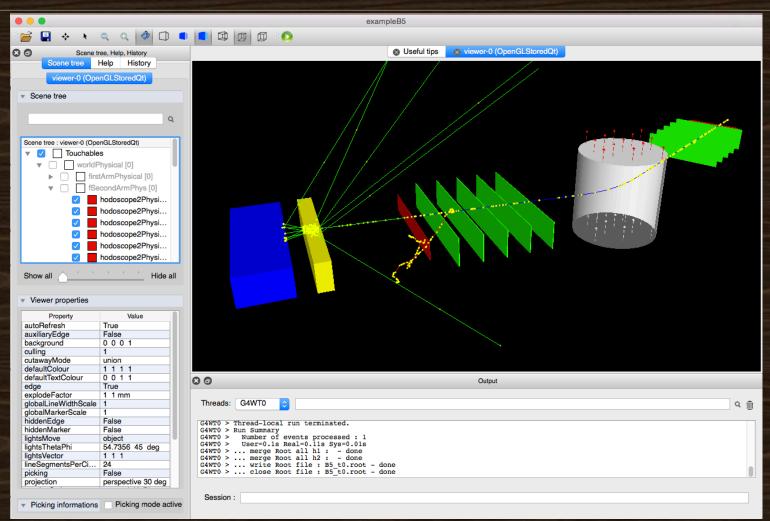# Report from parallel session 2B

Laurent Garnier OSUR / INSU / CNRS
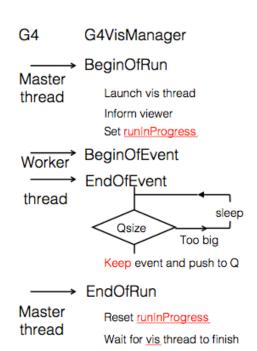
Geant4 Collaboration Meeting – Chicago – 2 Oct 2015
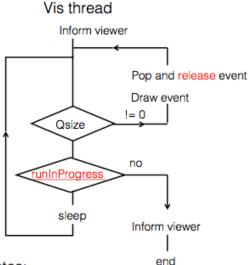
Update on G4UIQt

Vis thread

Vis flow diagram - multithreaded mode

Qt driver issues

- **Qt5 installation problem (on mac):**

  cmake -DCMAKE_PREFIX_PATH=/where_is_qt (libs, bin and includes source_dir

- **Crash at runtime on Linux+Qt5 (exampleB1 and other)**

  QWidget::setVisible(bool) () from /usr/lib/x86_64-linux-gnu/libQt5Widgets.so.5

  G4UIQt::SessionStart() () from /home/gate/Progs/Geant4/geant4.10.01.p02-install/lib/libG4interfaces.so

  ⇒Serious problem for Linux users

  ⇒Laurent will run Geant4 on Linux to try to solve this

  ⇒A solution has been found by users, but not tested

Testing vis

- **Testing vis by hand is painfull**

- **No much effort to do it with ctest**

  - **Should run without any graphic card (in batch mode-**

  ⇒ **Xvfb library need to ne installed.**

  ⇒ **Generalize this library for all tested platforms in Cdash ?**

  - **You should roduce « screenshot » of what you want**

  - **Compare them to references**

  - **A « test » example is provide with test202**

- **Generalize vis test for all examples ?**

Discussion

Lots of topics :

⇒ Save/restore viewpoints

⇒ Ability to fly-through the scene

⇒ Magnetic fields visualization, could be improve

⇒ Newer OpenGL version

⇒ Produce image files in batch jobs=> have to be documented

⇒ Making more video tutorials ? YouTube account ?