Running application on the Grid

Notes: The AFS directory with Geant4 installation:

`/afs/cern.ch/sw/arda/install/DIANE/Geant4`

It contains the tarball with the latest dirInstallations.tar.gz (see Geant4TarballGridInstallation).

You have to be a memebr of geant4 VO. Check `~/.gangarc` file to configure the VirtualOrganisation property accordingly.

How to run the demo for Vienna Tutorial?

- go to the demo directory:
  - ♦ `cd /afs/cern.ch/sw/arda/install/DIANE/Geant4/ViennaDEMO`
- setup DIANE and ganga:
  - ♦ `source env.csh`
- setup application environment for G4Brachy:
  - ♦ ``eval `diane.app.setup -a G4Analysis -e csh` ``
- run application:
  - ♦ `diane.startjob -j $DIANE_TOP/dev/applications/G4Brachy/macros/brachy-iridium-diane-100kevents-10tasks. -w20@LCG --wms $PWD/WNLIST-Geant4.txt --ganga`

Notes:

A list of GoodGeant4Sites.

If your terminal connection breaks, then the master will be killed by the shell. So if you are running over unreliable connection you may consider logging everything to a file and not to screen. You can do this in the following way:

`./diane.startjob2 ... >& /dev/null`

The master log will be a file like `masterThu_138_20_10_19.log` - the day of the week and time encoded in the file name.

How to check the status of the worker agents?

Run `ganga` and type `jobs`

You may select the jobs which belong to a given master like this: `jobs['DIANE_XXX']` - `XXX` is the master number you see in the log file

You only get the output of workers which are in `'completed'` status. You can get it doing something like:

```
for j in jobs['DIANE_XXX']:
 if j.status == 'completed':
    print '*'*80
    print '*'*80
    print j
    print 'STDOUT'+'*'*30
    !cat $j.outputdir/stdout
    print 'STDERR'+'*'*30
    !cat $j.outputdir/stdout
```

In case of problems send the output of the loop above and the output of the command `jobs['DIANE_XXX']` by email.

This topic: ArdaGrid > RunningGeant4OnTheGrid
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