### Applications Area News

- Releases and Configurations
- Source Code Indexing
- Platforms
- Python Modules

AA meeting, 20 January 2010
P. Mato/CERN (with the help from S. Roiser)

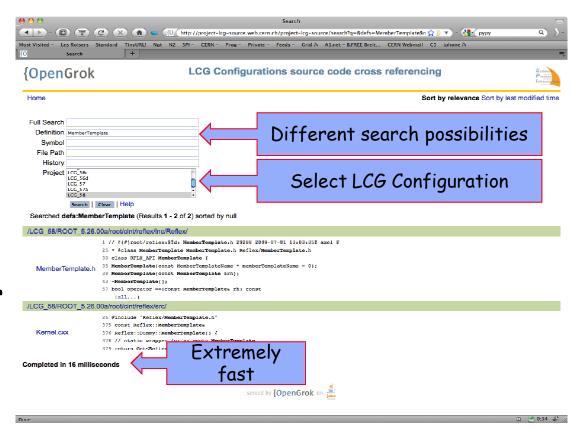


# Releases and Configurations

- End-of-the-year releases
  - Geant 4 9.3
    - » Several physics model improvements
    - » Decrease of memory footprint
  - ROOT 5.26.00
    - » Including major optimizations for I/O
- ◆ LCG Configuration 58
  - Based on ROOT 5.26.00a, CORAL 2\_3\_6, COOL\_2\_8\_5,
     POOL\_2\_9\_5, RELAX\_1\_2\_1
  - To be announced today or tomorrow

# Source Code Indexing (OpenGrok)

- New source code cross referencing page for AA software available at <a href="http://cern.ch/lcgsource">http://cern.ch/lcgsource</a>
  - » Provides information for the last 3 LCG release series (56, 57, 58)
  - » Easy to maintain
  - » Offline (java) application for browsing available



### Platforms

- New compilers installed in AFS
  - gcc 4.5\_20100112 (snapshot)
    - » Including support for "graphite" loop optimization and link time optimization (Ito)
  - IIvm 2.6 (with gcc frontend)
    - » Running also in the LCG nightly builds (dev2 slot)
- Port to Mac OSX 10.6 Snow Leopard
  - Finishing up on porting of external packages
  - Nightly builds to be started soon

## Re-organizing python modules

- Many Python add-ons requested by LHC community
- Partitioning the modules into bigger "chunks"
  - <u>pyanalysis</u>: numpy, scipy, matplotlib
  - pygraphics: pyqt(\_compat), sip, pydot, pyparsing
  - <u>pytools</u>: processing, ipython, pypy, mock, scons, 4suite, pyxml, cx\_oracle, mysql\_python

#### Advantages:

- Less changes in the user configuration
- Shortening PYTHONPATH, LD\_LIBRARY\_PATH, etc.
- Easier integration of new modules
- Available with next LCG Configuration
- Single modules (+ CMT Interfaces) will be deprecated and removed with next-next configuration (LCG 60)

