Internal Pool Release V0.2

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Release Platform

- POOL V0.2 has been released on November 15th
  - the cvs release tag are "POOL_0_2_0" and "v2r0"
  - Internal release for POOL developers
- Still a single supported platform so far
  - RedHat 7.2 using gcc 2.95.2
    - Code should also work on rh61 and (partially) on win32/VC6
    - First test with gcc 3.2 have been done
- Require several external packages hosted by SPI
  - see /afs/cern.ch/sw/lcg/external
  - MySQL (4.0.3-beta)
  - MySQL++ (1.7.9)
  - Root (3.03.8)
  - Xerces-C (1.6.0)
- Supported build systems
  - scram and cmt
    - achieved better support by simplifying the cvs structure
  - configure; make system was planned
    - but did not make it in time for V0.2
- This will be the last release supporting two build systems

Release Content – main changes wrt. V0.1

- Collections
  - implicit and explict collections
    - based on containment in root files or list of object references
  - provides coherent iterator access
- File Catalog
  - two implementation based on mysql and xml
  - added abstract iterator interface to allow catalog browsing
    - first GUI prototype underway (V0.3)
- Reflection & Conversion
  - Refactoring of the interface
    - separated writer interface (creation of new classes)
    - added support for namespaces and templates

Release Target

- Main Release Target:
  - Integrate object navigation (V0.1) with object collections
- Test Programs – eg /pool/test/Collection_1
  - register a new file with a file catalog
  - write a few interrelated objects into a root file
  - keep track of object references in two collections
  - read objects back based on collection iterators
- Integration is still rather shallow
  - Test/example programs need further cleanup
  - Changes the Ref<->Storage Manager protocol underway to achieve this goal (V0.3)

Next Steps

- Usual code review will start now
  - 2 half days, different pairs than last cycle
  - SPI provides one external person for the review
- Need to formalise the release procedure
  - assign ownership to all integration tests
  - define tagging and notification procedure for packages releases
- Integrate cpp_unit/oval based testing for integration tests
  - example code for the DataSvc component has been developed
  - need to integrated with the build system

Next release

- In only less than a month …
  - Aiming for V0.3 release at 13th December
- Integration between LCG and Cint dictionaries is top priority work item
  - Markus, Stefan & Rene have been working on a concrete proposal
    - hope to get the proposed changes into a ROOT release compatible to our release
- FileCatalog implementation based on the EDG/Globus components
  - Currently working on the glue code between POOL and EDG C++ interfaces
  - Expect repeat the scalability test which have been done for the native MySQL file catalog
- Meta Data access and query
  - Prototype code already in this release
  - Interface consolidation between the C++ and JDO based implementations

Summary

- The internal POOL V0.2 release took place
  - Planned new functionality is provided
  - Thanks to all pool developers
- All POOL work packages are now part of the release
  - Successful integration of several new externally developed packages
    - need more formal internal communication to make sure that's not all left until very late in the release cycle
- Accumulated 2 wk delay wrt to the initial project plan
  - but on time wrt our prediction given after the V0.1 release
- POOL project is on track and preparing for the next very tight release cycle towards a first public release