

From: [Pere Mato Vila](#)
To: [project-lcg-af \(LCG Architects Forum\)](#)
Cc: [Witold Pokorski](#)
Subject: Fwd: POOL meeting minutes
Date: Monday, October 19, 2009 5:08:55 PM

Dear Architects,

Please take note of following minutes from the recent POOL meeting. In particular, the conclusions that proposes a number of actions for the followup of the POOL project. I suggest that we discuss this in the next AF meeting.

Cheers,

Pere

Begin forwarded message:

From: Witek Pokorski <Witold.Pokorski@cern.ch>
Date: October 16, 2009 11:17:33 AM GMT+02:00
To: project-lcg-peb-persistency-internal <project-lcg-peb-persistency-internal@cern.ch>, project-lcg-peb-persistency-developers <project-lcg-peb-persistency-developers@cern.ch>
Cc: Pere Mato Vila <Pere.Mato@cern.ch>
Subject: POOL meeting minutes

Dear all,

please find attached the last month POOL meeting minutes.

Regards,
Witek

POOL meeting - 01 September 2007

Present:

W. Pokorski
A. Valassi
M. Frank
M. Clemencic
G. Govi
V. Innocente
M. Nowak
RD Schaffer
P. Calafiura

On the phone:

D. Dykstra

Purpose of the meeting: to discuss the status of the different packages, the new developments since the POOL review last year and the plans for the near future.

Status of packages:

StorageSvc and ROOTStorageSvc: the only changes were those driven by ROOT. A problem with the dictionary creation solved together with the ROOT team. The issue of fast merge has been raised - see discussion further.

RelationalStorageSvc (only used by CMS): adaptation for new Reflex, schema evolution improvements, support for custom types, support for multiple inheritance, support for sharing the session with CORAL
Note: CMS is not using or testing MySQL in POOL-ORA and will not provide bug fixes for MySQL use cases.

Collections (only used by ATLAS): number of fixes and small improvements. Relational collections now support parallel inserts.

FileCatalog: no changes for at least a year. Used by ATLAS. CMS only uses the interface to connect to its own catalogue. ATLAS could possibly adapt the LHCb solution of having the catalogue within Gaudi/Athena, so POOL file catalogue could be dropped.

DataSvc (used only by CMS): some minor improvements implemented by CMS

Plans for the development of the packages:

No plans for any specific development. Some minor fixes (error printing to be suppressed in some cases, etc) requested by ATLAS.

Usage by experiments:

No change since the last year review. LHCb uses only (ROOT)StorageSvc. ATLAS uses (ROOT)StorageSvc, PersistencySvc and Collections. CMS uses only the relational part of POOL for storing conditions data.

None of the experiments needs POOL as a common interface to different (ROOT and relational) storage technologies.

General conclusion:

POOL should stay in the maintenance mode and no effort should be invested in the development. CMS even discourages any development as this could require changes (adaptation) in the experiments code. If any effort is available it should rather be used to help the experiments to migrate away from POOL. CMS could use directly CORAL with just a layer on top. ATLAS and LHCb only need the ROOTStorageSvc part of POOL (and collections for ATLAS). There could possibly be a common, simple and efficient solution implemented in Athena/Gaudi.

The fast parallel merge of POOL files is the main issue now. ATLAS has a work-around for the moment, but this will not be sufficient in the future. It looks like POOL may become a blocker for the fast merge because of the way it was designed (currently we have to way to handle tokens during the fast merge). This issue clearly needs to be addressed further.

Pere Mato CERN, PH Department, CH 1211 Geneva 23, Switzerland
e-mail: pere.mato@cern.ch tel: +41 22 76 78696
fax: +41 22 76 68792 gsm: +41 76 48 70855