

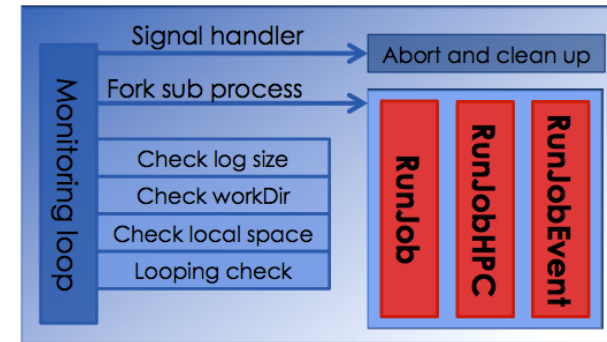
Paul Nilsson

HPC PILOT

Introduction

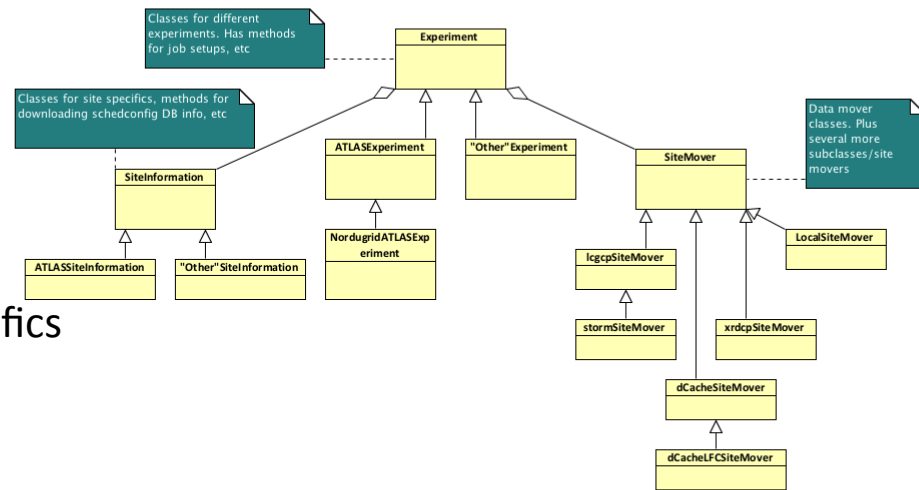
Pilot Plug-ins

- Pilot getting more and more plug-in based
 - Experiment and SiteInformation classes
 - ATLAS, Nordugrid (ATLAS sub class), CMS, LSST
 - <https://twiki.cern.ch/twiki/bin/view/PanDA/GenericPanDAPilot>
 - RunJob* classes
 - RunJob (base class; used for normal PanDA jobs)
 - RunJobEvent (event service jobs)
 - RunJobHPC* (sub classes for HPC:s; next slide)
 - In development:
<https://twiki.cern.ch/twiki/bin/view/PanDA/RunJob>



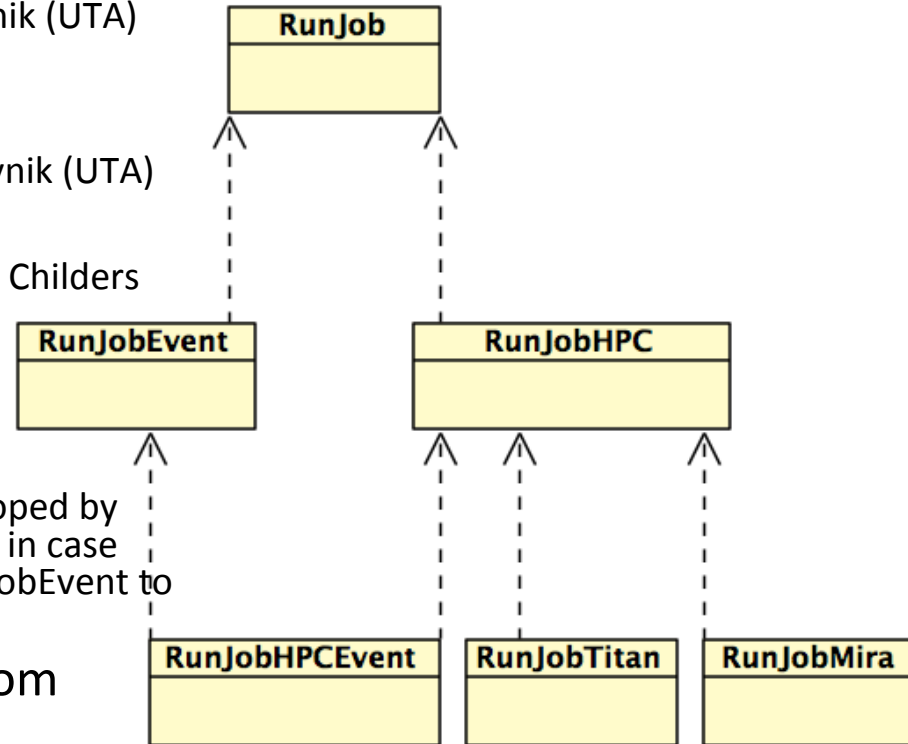
- Additional plug-in classes

- Site movers (since before)
 - LocalSiteMover, xrdcpSiteMover, S3ObjectstoreSiteMover, ..
- EventService
 - ATLASEventService for ATLAS specifics
- .. and possibly more in the future



Pilot HPC Classes

- HPC Classes
 - RunJobHPC
 - (Inherits from RunJob)
 - HPC base class in developed by Danila Oleynik (UTA)
 - Common code for all HPC classes
 - RunJobTitan
 - Sub class for Titan developed by Danila Oleynik (UTA)
 - RunJobMira
 - Sub class for Mira in development by Taylor Childers (Argonne)
 - RunJobHPCEvent
 - [Possible] sub class to both RunJobHPC and RunJobEvent
 - For event service jobs on HPC:s to be developed by Paul Nilsson (BNL)/Wen Guan (Wisconsin) – in case many changes are required for getting RunJobEvent to run on HPCs
- Selected module getting HPC specifics from dictionary in new schedconfig field
 - E.g. hpc = “{ .., “Name”: “Titan”, ..}” will select RunJobTitan module
 - (Exact name/format to be decided)



General recommendation: Keep experiment specific details in experiment classes