

Distribution Kit Status and Plans

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Overview

AtlasSetup package

Packaging tools

Distribution kit at Point 1

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AtlasSetup in distribution kit

- for release 16.0.0, helper scripts/configuration files revisited to make AtlasSetup usage more uniform with or without distribution kit
- added `cmtsite/asetup_defaults` along with `cmtsite/asetup.[c]sh` generated at kit installation time
- helper files contents

```
$ cat <path-to-kit>/cmtsite/asetup.sh
export AtlasSetup=<path-to-kit>/AtlasSetup
source <path-to-kit>/AtlasSetups/scripts/asetup.sh $*
alias asetup='source <path-to-kit>/AtlasSetups/scripts/asetup.sh'
```

```
$ cat <path-to-kit>/cmtsite/asetup_defaults
standalone = True
releasesarea = <path-to-kit> <path-to-kit>/..
```



Setup with distribution kit

- set up runtime environment for release 16.0.0 without test area

```
$ source <path-to-kit>/cmtsite/asetup.sh 16.0.0,notest
```

- for further details see <https://twiki.cern.ch/twiki/bin/view/Atlas/AtlasSetup>

Setup pitfall

- default AtlasLogin based setup via
`<path-to-kit>/cmtsite/setup.[c]sh` **does not set**
up test area
- default AtlasSetup based setup via
`<path-to-kit>/cmtsite/asetup.[c]sh` **does set up**
test area to current working directory
- defaults difference caused major problem for PanDA users
doing analyses for Heavy Ions paper, even though solution
was put in place rather quickly, also for Heavy Ions MC
production
- specifying explicitly what is needed via command line
options and/or configuration files always works
- what better default should be is under discussion

PackDist developments

- current version **PackDist-00-06-08**
- new versions since previous Software & Computing workshop provide iterations of helper scripts/configuration files for AtlasSetup in distribution kit

Ongoing work and future plans

- migration of PackDist to AtlasSetup attempted but not completed due to issue with latter (did not handle external projects `tdaq-common` and `dqm-common`)
- going to repeat as issue appears to be resolved
- merging Mac OS X specific modifications to PackDist into tagged version to use in Mac OS X nightly builds

Point 1 installation

- patch release, e.g., `AtlasP1HLT`, kits build and installation go smoothly, done by release shifters
- full release installation occasionally requires expert intervention, e.g., due to issues related to dependencies on projects under TDAQ responsibility
- problem with space available on file server
 - similar to GRID sites s/w area problem, some releases need to be uninstalled from time to time
 - not as sever, as all releases installations done in single root directory \Rightarrow no external s/w or DBRelease duplication

Summary

- AtlasSetup package configuration in distribution kit revisited to make it simpler and more consistent with its usage without distribution kit
- PackDist migration to AtlasSetup attempted but not finished due to issue with latter, to be repeated shortly
- building functional distribution kits for Mac OS X nightly builds planed for near future
- Point 1 Offline and HLT releases installation goes quite well