Installing new ATLAS releases at SLAC

- Originally from Peter Kim, now maintained by Andy Haas -

EXPERT only! ! ! Ask Andy Haas to install new releases for you!

0) HN/e-news announcement of new release pacman package
   https://groups.cern.ch/group/hn-atlas-releaseKitAnnounce/default.aspx

1) Before starting a new install, set up the environment variables:

RHEL5-32 bit:

```
export PATH=/bin:/usr/bin:/usr/etc:/usr/afsws/bin:/usr/afsws/etc:/usr/bin/X11:.
unset PYTHONPATH
. /afs/slac/g/atlas/packages/pacman/3.29/setup.sh
```

2) Go to the target release partitions:

```
cd /afs/slac/g/atlas/c (or d)
```

   Makes sure there is enough space with " fs lq * ".
   If more space is needed, send a request to unix-admin@slac.stanford.edu

3) Installing base release: x.x.x
   Issue the pacman command found in the HN/e-news announcement:

```
pacman -allow any-platform trust-all-caches tar-overwrite -get http://atlas-computing.web.cern.ch/atlas-
computing/links/kitsDirectory/projects/cache:AtlasProduction_16_6_6_i686_slc5_gcc43_opt
```

4) Installing AtlasProduction cache: x.x.x.x
   After steps 1-3, setup the release:

```
asetup 16.6.6
```

   Issue the pacman command found in the HN/e-news announcement, then setup the release for cmt:

```
pacman -get http://cern.ch/atlas-computing/links/kitsDirectory/Production/cache:
AtlasProduction_16_6_6_2_i686_slc5_gcc43_opt

cd AtlasProduction/16.6.6.2/AtlasProductionRunTime/cmt/ ; cmt config ; cd -
```

5) Problems with release install
   Check the postings in https://groups.cern.ch/group/hn-atlas-releaseKitProblem/default.aspx
   as others might have similar problems.
   Ask Peter or Zach. If all fails, start a new thread in that forum.

   pacman documentation : http://atlas.bu.edu/~youssef/pacman/

   If you ran out of disk space during an install, manually download the last missing tarball with a command like:

```
wget http://atlas-computing.web.cern.ch/atlas-computing/links/kitsDirectory/projects/kits
/AtlasAnalysis_16_5_0_i686_slc5_gcc43_opt.tar.gz
```

6) When there is an announcement of new AtlasLogin or AtlasSettings
   Go to the install area (/c/ in this example) and execute:

```
pacman -update AtlasLogin
pacman -update AtlasSettings
```

They are supposed to be backward compatible, unless stated otherwise.

7) Updating pacman:
   There are usually ATLAS announcements asking to install a new version.
   New version of pacman can be downloaded from BU:

```
wget http://physics.bu.edu/pacman/sample_cache/tarballs/pacman-latest.tar.gz
tar -xf pacman-latest.tar.gz
```

Move the pacman package to /afs/slac/g/atlas/packages/pacman/, go into the new
pacman directory and set up.

```
cd x.xx
source setup.sh
```

(Please note that any installs in /c/ or /d/ must stay with the pacman version
that was originally used. pacman does not get updated often, but when it does
it might be a good time to build a new install with it switching between
/c/ and /d/.)

8) Installing manually a DBrelease: check here for what's available

```
pacman -allow trust-all-caches -get http://atlas.web.cern.ch/Atlas/GROUPS/DATABASE/pacman4/DBRelease:
DBRelease-${DBRELEASE_VERSION
```

This page has more info

9) Removing a release: **(NEVER just use "rm -rf ..." - you'll confuse pacman!)**

```
pacman -remove AtlasProduction_16_0_2_3_i686_slc5_gcc43_opt
pacman -remove AtlasProduction_16_0_2_i686_slc5_gcc43_opt
```