

# ATLAS Environment at SLAC

## Basics (updated 11-May-2018)

Please refer to the items under User Information in the [U.S. ATLAS Center at SLAC](#) page.

### How to get up and running quick (This looks very old. Review and delete as appropriate.)

```
#Do this just once:
cd
cp ~ahaas/.bashrc .
cp ~ahaas/.profile .
mkdir .hepix; cp ~ahaas/.hepix/* .hepix/
echo "none" > ATLCURRENT
mkdir reldirs
cp -r ~ahaas/cmthome .
bash
cd cmthome
source /afs/slac.stanford.edu/g/atlas/c/CMT/v1r20p20090520/mgr/setup.sh
cmt config
```

The "cmthome" directory contains the all-important "requirements" file, which defines the CMT environment you're in, see it below in "Bonus material".

You may want to have an area with >500MB of storage space (the /afs home limit).

If you're in group "atlas" (check with "groups", otherwise mail [young@slac](mailto:young@slac) and he'll do "ypgroup adduser -group atlas -user username"):

```
mkdir /afs/slac.stanford.edu/g/atlas/work/<firstLetterOfUsername>/<username>
ln -s /afs/slac.stanford.edu/g/atlas/work/<firstLetterOfUsername>/<username> nfs
```

Otherwise you have to use /scratch areas on the machines...

```
mkdir /scratch/<username>
ln -s /scratch/<username> scratch
```

[More info on ATLAS disk space at SLAC is here.](#)

Everytime you log in and want to use an ATLAS release:

```
touch ~/.usecvmfs
bash #this is the supported shell for ATLAS work at SLAC
setupATLAS
asetup 17.2.7.4.1,64,AtlasPhysics,here,slc5 #to setup a particular release.
```

Now you can run athena, for example:

```
get_files -jo HelloWorldOptions.py
athena.py HelloWorldOptions.py > ~/scratch/hello.log

#Check out code for skeleton AOD analysis:
atladdpkg PhysicsAnalysis/AnalysisCommon/UserAnalysis

#To get a particular version of the package, other than what's in the current release:
#cmt co -r UserAnalysis-00-13-17 PhysicsAnalysis/AnalysisCommon/UserAnalysis

#If no ATLAS access yet:
#cp -r ~ahaas/reldirs/15.3.1/PhysicsAnalysis .

#build package
cd PhysicsAnalysis/AnalysisCommon/UserAnalysis/cmt; make; cd ../run
```

More (and possibly updated) details on setup with cvmfs can be found at the beginning of the [Software Basics](#) section of the [ATLAS Software tutorial](#).

You should be able to run anything from the [CERN computing workbook](#), [software workbook](#), and [physics workbook](#).

You also are also ready to use the GRID easily, see [instructions here](#).

Here are lots of [handy tricks for getting things done](#) (at SLAC) with ATLAS computing / analysis work.

Make use of the [US ATLAS Analysis Support Centers](#), including their [analysis tutorials](#).

Our old [static page](#) has some possibly still relevant but perhaps out of date info.

And there were many good talks at the [2009 WT2 users' forum workshop](#).

## Bonus material

The default "requirements" file:

```
set CMTSITE STANDALONE
set SITEROOT /afs/slac/g/atlas/b/
#set DBRELEASE_OVERRIDE 7.1.1

macro ATLAS_DIST_AREA ${SITEROOT}
macro ATLAS_TEST_AREA ${HOME}/reldirs
apply_tag setup
apply_tag simpleTest
use AtlasLogin AtlasLogin-* ${ATLAS_DIST_AREA}
```