

ASP Installation Instructions

Initially, these instructions will be for installing on rhel6-64 and using the LSF-based Pipeline-II infrastructure.

Instructions for rhel6-64

These instructions are also available in [this repo](#) in [users/jchiang](#) in [SLAC CVS](#).

- In tcsh, source the setup script containing

```
setenv BINDIR redhat6-x86_64-64bit-gcc44-Optimized
setenv INST_DIR /afs/slac/g/glast/ground/ASP/prod/ASP-07-00-00
setenv GLAST_EXT /afs/slac/g/glast/ground/GLAST_EXT/redhat6-x86_64-64bit-gcc44
astrotools

source ${INST_DIR}/bin/${BINDIR}/_setup.csh
setenv TNS_ADMIN /u/gl/glast/oracle/admin
setenv ORACLE_HOME /afs/slac.stanford.edu/package/oracle/f/11.1.0/amd64_linux26/11.1.0
setenv LD_LIBRARY_PATH ${ORACLE_HOME}/lib:${LD_LIBRARY_PATH}
setenv PYTHONPATH /afs/slac/g/glast/ground/PipelineConfig/ASP/python/lib/python2.6_x86_64/site-packages:
/afs/slac/g/glast/ground/PipelineConfig/GPLtools/prod/python:${PYTHONPATH}
setenv PATH ${INST_DIR}/bin/${BINDIR}:${PATH}
setenv PFILES ".;${BASE_DIR}/syspfiles:/dev/null"
setenv CALDB /afs/slac.stanford.edu/g/glast/ground/ASP/prod/fermitools_irfs/irfs/caldb/CALDB
setenv CALDBCONFIG ${CALDB}/software/tools/caldb.config
setenv CALDBALIAS ${CALDB}/software/tools/alias_config.fits

set prompt="[ASP]$ "
```

- Install the ASP distribution in the ASP/prod area on afs, where ASP-vv-rr-pp is the tag, e.g., ASP-07-00-00:

```
ssh rhel6-64
cd /afs/slac/g/glast/ground/ASP/prod
cvs co -r ASP-vv-rr-pp ASP-scons
mv ASP-scons ASP-vv-rr-pp
```

- Edit pyASP/python/databaseAccess.py to enable the asp_prod oracle wallet user, i.e., comment the relevant code block like this:

```
#try:
#    #
#    # Reset the default to prod if running in the PROD pipeline.
#    #
#    if os.environ['PIPELINESERVER'] == "PROD":
#        asp_default = asp_prod
#except KeyError:
#    #
#    # We may be running interactively (and did not set PIPELINESERVER),
#    # so keep "DEV" as the default.
#    #
#    print "Warning: Using dev db tables."
#    pass
```

- cd to the associated ScienceTools build in afs, edit the Makefile entry for ASP_prod to point to the ASP tag, build ASP_prod, and return to /afs/slac/g/glast/ground/ASP/prod:

```
pushd /afs/slac/g/glast/ground/releases/volume02/ScienceTools-09-32-05
<edit Makefile>
make ASP_prod
popd
```

- Move the ASP symlink in /afs/slac/g/glast/ground/ASP/prod to point to the tagged installation:

```
ln -sf ASP-vv-rr-pp ASP
```

- Ensure the location of aspLauncher.sh is correct (This is used by L1Proc to launch the ASP pipelines.):

```
cd /afs/slac/g/glast/ground/links/data/ASP
ln -sf /afs/slac/g/glast/ground/ASP/prod/ASP/bin/redhat6-x86_64-64bit-gcc44-Optimized/aspLauncher.sh
```

- Ensure the location of ingestNoticeQueue_rh6-64.sh is correct:

```
cd /afs/slac/g/glast/ground/ASP/GCN_Archive/
ln -sf /afs/slac/g/glast/ground/ASP/prod/ASP/bin/redhat6-x86_64-64bit-gcc44-Optimized/ingestNoticeQueue.sh ingestNoticeQueue_rh6-64.sh
```

- Check that the notices are being properly ingested by the cron job at 5 min intervals (See [Current Cronjobs](#) for chronjob locations.)

```
ssh fermilnx-v05
cd /scratch/ASP
ls -l
```

- Ensure the location of make_monitored_source_list.sh is correct. This is called by makeDrpLcTables.sh on rhel6-64 via trscrontab.:

```
cd /afs/slac/g/glast/ground/links/data/ASP
ln -sf /afs/slac/g/glast/ground/ASP/prod/ASP/bin/redhat6-x86_64-64bit-gcc44-Optimized/make_monitored_source_list.sh
```

- The preceding relocated .sh scripts need to be edited to set the INST_DIR environment variable internally:

```
export INST_DIR=/afs/slac/g/glast/ground/ASP/prod/ASP-vv-rr-pp
```

- Edit make_monitored_source_list.sh to define DRPMONITORINGROOT env var:

```
export DRPMONITORINGROOT=/afs/slac/g/glast/ground/ASP/prod/ASP-vv-rr-pp/drpMonitoring
```

- Copy the GCN_Notice_processor.py script for the procmail GCN ingest process:

```
cd /afs/slac/g/glast/ground/PipelineConfig/ASP/bin
cp /afs/slac/g/glast/ground/ASP/prod/ASP/grbASP/python/GCN/GCN_Notice_processor.py .
```

- Install any new xml task defs into P-II:

```
aspLauncher/xml/AspInsertIntervals.xml
aspLauncher/xml/AspLauncher.xml
asp_pgwave/xml/PGWAVE.xml
drpMonitoring/xml/DRP_monitoring.xml
grbASP/xml/GRB_afterglow.xml
grbASP/xml/GRB_afterglow_launcher.xml
grbASP/xml/GRB_blind_search.xml
grbASP/xml/GRB_refinement.xml
grbASP/xml/GRB_refinement_launcher.xml
```

- Update the relevant configs in the db tables:

```
GRB_ASP_CONFIG STARTDATE=456833103 456845884 ENDDATE=618796803 IRFS=P8R2_TRANSIENT020_V6
THRESHOLD=319
SOURCEMONITORINGCONFIG STARTDATE=456840000 ENDDATE=618796803 IRFS=P8R2_SOURCE_V6 ST_VERSION=10-01-01
ASP_VERSION=07-00-00 FT1_FILTER='(EVENT_CLASS & 0200) != 00'
```