Infrastructure needs for L1Proc migration

Pipeline needs: Brian Van Klaveren

- ☑ Add S3DF/S3DFDATA sites to DEV Pipeline, for L1 testing
- ☑ The PROD pipeline interface hangs when loading a task (example)
- ☐ Ability to delete tasks with runs from the pipeline admin (DEV and PROD)
- ☐ Can we pipe `slurm_pilot` into the standard `logfile.txt` for each task?
- ☐ Debugging DQM ingestion scripts#JAVA_HOME

SLURM questions:

- ☐ Document all SLURM options supported by the pipeline interface Brian Van Klaveren
- ☐ What are all the available SLURM configurations (queue, memory, etc.) for S3DF? Yang, Wei
- ☑ Do we need the analogous of a preempt queue in S3DF? What would that be? Richard Dubois
    - ☑ Current setting: `--account fermi:L1`

Data migration issues: Richard Dubois

- ☑ SCons symlinks were not migrated correctly: `/afs/slac/g/glast/applications/install/@sys/usr/bin/scons` was not copied to /sdf
    - ☑ RD: not sure the correct fix for the @sys, but it did get copied to /sdf/data/fermi/a/applications/SCons/2.1.0/bin/scons and can be used from there
    - ☑ MEM: this is an acceptable workaround for now. But really we should get rid of this whole SCons nightmare
- ☑ stag is also broken: `/afs/slac.stanford.edu/g/glast/applications/install/@sys/usr/bin/stag` was not installed correctly on /sdf
    - ☑ RD: stag is was linked to nfs and is here: /sdf/data/fermi/n/u05/stag/0.2.5/redhat6-x86_64-64bit/stag
    - ☑ MEM: this is also broken (just try calling it). The only working path is the afs one, but only works from rhel6-64
- ☑ xrootd stuff is also broken. See for example the PROD, DEV folders in here: `/sdf/group/fermi/a/applications/xrootd`(Wilko Kroeger)
    - ☑ MEM: this /sdf/group/fermi/a/applications/xrootd/dist/v3.1.1/i386_rhel60/bin/glast_wrapper.sh does not work (can't find fs)

Container needs: Yang, Wei

- ☑ Need a container where the architecture is set explicitly to rhel6 instead of centos6 (architecture name confuses SCons)
- ☑ While we are at it, can we add CVS and vim to the new container?
- ☑ We need a fortran compiler as well, specifically g77 and f2py. From the Makefile of IGRF: G77 = /usr/bin/g77 and F2PY = f2py2.6
- ☑ Singularity gets confused by symlinks. Solution: more bind mounts. Script start_rhel6.sh just added to L1Proc for compilation

The following sections are obsolete

CVS is broken: Moved to git (completed on 17 Jan 2024)

- Documentation about stag (only works on rhel6-64). Documentation from Joanne on making branch tags with cvs
    - `/afs/slac.stanford.edu/g/glast/applications/install/@sys/usr/bin/stag` disappeared from path

Plan forward: All done, as of 17 Jan 2024

Container quirks: predictably, that went away on its own (checked 25 Jan 2024)

- Surreal behavior with folder names: only difference is in the last line

This code works:

```
#!/sdf/group/fermi/a/isoc/flightOps/rhel6_gcc44/ISOC_PROD/bin/shisoc python2.6

import os
import sys

L1Name = os.environ.get('L1_TASK_NAME') or "L1Proc"
L1Version = os.environ.get('PIPELINE_TASKVERSION') or os.environ.get('L1_TASK_VERSION') or "5.9"

BuildVolume = '/sdf/group/fermi/a/ground/releases/volume11'
L1BuildBase = os.environ.get('L1_BUILD_DIR') or os.path.join(BuildVolume, 'L1Proc')
L1Build = os.path.join(L1BuildBase, '5.9')
```

This code does NOT work:

```
#!/sdf/group/fermi/a/isoc/flightOps/rhel6_gcc44/ISOC_PROD/bin/shisoc python2.6

import os
import sys

L1Name = os.environ.get('L1_TASK_NAME') or "L1Proc"
L1Version = os.environ.get('PIPELINE_TASKVERSION') or os.environ.get('L1_TASK_VERSION') or "5.9"

BuildVolume = '/sdf/group/fermi/a/ground/releases/volume11'
L1BuildBase = os.environ.get('L1_BUILD_DIR') or os.path.join(BuildVolume, 'L1Proc')
L1Build = os.path.join(L1BuildBase, L1Version)
```