09/05/2007 CERES Data Management Team Meeting

Upcoming Events:

Nov 14-16, 2007: Fall CERES **Science Team Meeting** in Victoria, BC, Canada

Notes from the previous meeting (08/08/2007)

ASDC:

Perl location: SCF and ASDC will link perl to the same location. E-mail will be sent to everyone stating the final location. This is an open issue from 2 weeks ago.

Disk space is now at 96%. Need to get it down further. Level 0/ephemeris/attitude files before 2005 can be removed from ASDC disk. SSF is the biggest problem.

3.4.3 compiler without Ada was built successfully for *magneto* several weeks ago. Still need toolkit on 2 of the 50x mag machines before Scott can do anything with CERESlib. To use new 3.4.3 compiler, need TK built. 4.2.0 also requires TK build. Karen Brown and Scott to try to build toolkit for 4.2.0. Work on 3.4.3 TK build only if 4.2.0 doesn't pan out.

StorNext archive robotic server had problems over the weekend and was replaced yesterday.

Last week disk cache increased to 66 TB. Data will now reside in cache longer.

Warlock had hardware issues that were causing reboots. *Warlock* is causing system problems when copying data using StorNext. ASDC is looking into it.

The database switch from Informix to PostgresSQL went as expected. ASDC ran both databases for several days to validate. If anyone experiences problems, send e-mail to Jimmy and copy Vertley.

SCF:

/QA went away when *thunder* and *lightning* disks were removed. Ed is looking for SCF area in which to put files. Dale has files to place there.

DMSS and DMSS1 are going away. Ed sent Lisa e-mail. These are old data mass storage systems. Kathy Bush has nothing on these systems – she replied to Ed. Alice's status is still unknown.

When processing on the Mac cluster, one should output to /scratch on the node on which one is running and, when the job completes, transfer that output to the SAN. This corrected Denise's problem of writing very odd output which Dale could not read AND it ran 3-4 times faster! Synoptic SARB only saw one failure when running in this manner and was able to rerun that job with no problem. Synoptic SARB had the entire cluster at its disposal. Will want to eventually try running a few instrument jobs at same time as synoptic SARB. The next step is to try staging input files which are open for an extended length of time to /scratch

before running on the node. ASDC uses a GPFS file system for *magneto*. They still need to look at the potential benefit(s) of using /scratch.

SCF maintenance will occur Tuesday or Thursday mornings, typically for 1 -2 hours. Redundant systems will be individually taken down for maintenance once a month, so user should experience little impact.

Backup plan is under development. Currently no backups. Plan is for 2 backed-up directories for each user group. Daily backups for source code/scripts in working area < 50 GB. Longterm files backed up monthly. To get a backup now, pull data out of working area and send a backup request.

SEC:
Meeting with automation folks immediately after DMT. Update of delivery directory organization to minimize problems is on the table. There are 3 proposed structures.

SUBSYSTEM STATUS:
CM – No SCCRs.
Instrument – Unknown whether Edition3 gains/SRF from covers open forward or Edition2 gains/SRF for Jan'07 forward will be available first. TRMM simulation comparison with earlier simulated data showed difference of ~0.0001.
ERBElike – Peter and Dale are looking at Grant's code.
Clouds - SPIE extended abstract submitted. Clouds is running with MERRA MOA (based on first set of Jan'06 MERRA data delivered) and a new emissivity map.
Inversion – Completed ValR13B evaluation and MERRA MOA runs
MOA - First set of MERRA MOA is on warlock!
SARB – CRS run with first set of MERRA MOA input run on SGI and half complete.
GGEO – Encountered conversion problem that corresponded with SGI 64 bit link warning.

Agenda:

ASDC Status
- SI&T
- Interfaces
- Operations
- User Services

SCF Status

SEC activities

DM System Issues and Status
- Processing Priorities
- Schedule
- SCCRs
- Instrument Special operations

Subsystem Reports

Other – MERRA update
- *magneto* status?
- Norman is pulling together justifications for Terra and Aqua budgets