10/17/2007 CERES Data Management Team Meeting

Upcoming Events:

Nov 6-8, 2007: HDF workshop in Landover, MD.
Nov 14-16, 2007: Fall CERES Science Team Meeting in Victoria, BC, Canada

Notes from the previous meeting (10/3/2007)

ASDC:
Today, disk space is estimated to be 92 – 93%.

LaTIS archive needs to be integrated with ANGe. This requires recabling and one day of archive downtime – possibly next week. Production will be able to continue even when the archive is down.

Karen Brown has finished building the toolkit for 4.2.0, except for AA tools in a separate tar file (though to include digital elevation map and ancillary stuff). Scott has never included this file in the Mac toolkit builds, so it probably is not needed by CERES. May be ready for Scott to recompile CERESlib. Work on 3.4.3 TK build will only be done if 4.2.0 doesn't pan out.

Warlock reboots continue at a rate of at least once a week. Problem has also occurred on the ingest server *tabitha*. StorNext is researching the problem the archive has with IRIX platforms.

At the last meeting, Walt stated that he was having problems getting small files out of the archive. (He used to be able to retrieve over a month of files (744+) overnight. Two weeks ago, files arrived at an average rate of 7.5 per hour.) Walt began using 5-6 parallel retrievals and the retrievals sped up to 2400 files in 30 hours, a rate of 80 per hour!

Due to an ANGe deadline on 11/1, ASDC will be unable to provide an informal Automation presentation to the group in October. Sue asked that it be postphoned until November 28.

Archive database has been moved to a new server and the activity is complete.

User from Princeton has picked up the first 2 orders. The 3rd order (2 TB) is staged. There will be a total of 10 orders. Staging jobs complete with each other and provide a challenge. While staging recently, it was found that StorNext did not react to the highwater mark properly and continued staging without removing older files from the cache. Although diskspace usage shot up close to 100%, enough space remained to keep from having to take down the system.

User Services forwarded question to Dave Doelling on 9/12 but haven't yet had a response. They will resend the question.

~~Updating READMEs but not archiving them until Tammy approves them.~~ Tammy will notify the ASDC folks when the new URLs ("asd-www.larc.nasa.gov" changing to "science.larc.nasa.gov") referenced in the READMEs are in place so the READMEs can be updated. Tom can't run the code in the way it's being sent out in the README. Script with package doesn't use makefile. Commands in script are too specific and don't work on *manila.*

SCF:

Walt has tested new daacget and daacls scripts on the SGIs. All tests were successful. (Tip: Drop the "-l" if you only need to know whether or not a file is there; the daacls will execute faster.) Walt to test scripts on Macs and workstation next. Jimmy couldn't get on *manila* earlier, so new version may not be there yet. After Walt successfully tests, Jimmy will send all daacls/daacget users an e-mail regarding the required user keys which must be submitted for every machine from which a users intends to daacget/daacls. Included should be information about how users can obtain such keys. If not, the SAs will provide that guidance. Users should send e-mail containing keys to Jimmy as soon as they can. Target date to switch daacls/daacget is October 17. If a reasonable number of folks have provided keys to Jimmy by that date, the switch will be made after the DMT meeting. Once the switch is made, anyone who hasn't yet submitted their keys will be unable to use the daacls/daacget commands.

If you ssh to *manila*, put in your name, and nothing happens, the maximum number of users are already on the machine. Use another computer. Do not send a help ticket.

For the instrument group "-san" will be removed from the directory names. At the next meeting, Denise will report how it's going. If all is well, "-san" will be removed from all directories unless an explicit request not to do so is made.

SEC:

The directory structure is starting to come together. Big changes are coming. Data Management personnel should expect to see a major paradigm shift due to automation. Denise took 3 days of fulltime effort to pull together a 39+ page spreadsheet that lists the logical ids, PGE number, spacecraft/instrument, production strategies ("all" is a reasonable response!), and filename for each and every Instrument PGE. This information is expected to be needed by the automation folks as part of the operations documentation. Every subsystem already has this information, but it's probably scattered.

During the DMT discussion of SEC activities, the ASDC agreed to provide a general, informal automation discussion for the entire group at the next DMT meeting so that everyone has a general idea of how the SEC reported items fit into the automation scheme.

SUBSYSTEM STATUS:

CM – Several specific delivery dates have been set. Instrument/ERBElike Edition3 gains/SRF have been slipped to March'08.

Instrument – Waiting on *magneto*. Upcoming delivery will include code for TRMM-sim, Terra, and Aqua. All PGEs will need to be run as ValRs. Placeholder Edition3 gains will be included for testing purposes only. Actual Edition3 values expected in March'08.

ERBE-like – Comparing 2 different Edition3 test versions. Only have seasonal months for latest version, so need to run remaining months.

Clouds – Walt hasn't heard the final science assessment of Test-MERRA2. There are changes in both directions.

Inversion – No update on SGI and Mac cluster files showing 10 – 20% differences in LW and WN TOA fluxes for select FOVs. Thought to be an ugly memory problem. Testing SOFA algorithms for eventual Terra processing.

Synoptic SARB – TSI found to have no data at South Pole – sun related. Running SYNI as requested by Fred. Hopefully near the end of refining SYNI.

TISA averaging – Need to rerun Test-MERRA2 SRBAVG because GEOS-9 was left off the original runs.

CERESlib – Lisa Coleman is generating a spreadsheet which lists all the CERESlib modules, who is responsible for each module, and who uses each modules. All inputs due to Lisa by Oct 12.

AWRS (registering websites):

Website registration of all "landing sites" is requested by the end of Oct'07. See previous meeting notes for general information about registration. Erika has registered the CERES Data Management and Configuration Management websites. Erika will be registering the Operations in Orbit, ERBElike, and TISA websites. If you are the curator of any CERES related websites, make sure someone is registering either your site or the "landing page" under which your site falls!

Embedded Survey results

There was a survey embedded in the notes from the previous DMT meeting. The final results of the survey are that NO ONE from the group that attends these meetings responded prior to the meeting. Based on the looks of surprise, the meeting notes were probably only read by one or possibly two people. (John Robbins knew of the survey and, therefore, doesn't count.) HOWEVER, there was an interesting response from someone outside of the group that relies on these notes for ASDC and SCF information. Therefore, everyone, ESPECIALLY ASDC and SCF meeting attendees are asked to read these notes to verify the information provided is accurate.

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?