10/03/2007 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 (9/19/2007)

ASDC:

Perl location: /usr/local/bin/perl is final destination of perl and has been implemented at the ASDC and SCF.

Today, disk space is at 91%.

Christian is working on the GCC compile. He was able to recompile it in 12 hours yesterday, but a switch for 32/64 bit was not included in configuration. Christian has 3 separate compiles running today, one of which succeeded in 2 hours. GCC has been scaled back to support only Ada, C, C++, and FORTRAN. Today or tomorrow, Christian will begin building the toolkit for 4.2.0. He will notify Scott when he finishes, and Scott will then recompile CERESlib. Work on 3.4.3 TK build will only be done if 4.2.0 doesn't pan out.

Archive access from *warlock* continues to be a problem. New disk server may be the culprit. *Warlock* requires reboot to fix the problem, but all processing running on system at the time is allowed to complete before the reboot. Activity between warlock and the archive system seems to determine how often reboots required.

User from Princeton requested complete Terra SSF data set. ASDC using disk array to rapidly stage data from archive to fill this order.

Walt has problems getting small files out of the archive. He used to be able to retrieve over a month of files overnight. Now files arrive at an average rate of 7.5 per hour. Walt plans to begin parallel retrievals. ASDC has noticed that some archive retrieval were faster under Informix than they are under PostgressSQL. ASDC is working this problem with the vendor.

ECS went down Sept. 13 to switch to StorNext.

In mid to late October, the automation folks will make a presentation after a DMTM to discuss what CERES has to look forward to, current status, and expected schedule. Sue will provide a date shortly.

Archive database is getting moved to a new server tomorrow. Plan on no archive writes while down, possibly through Friday. Read status during this time is unknown.

Test-MERRA2 processing for Jan'06 will complete today (SSF) and tomorrow (SFC).

If you read this, please send an e-mail to Erika B. Geier stating whether you find the meeting notes useful or not. Please do not mention this embedded message to others as it will skew the results.

SCF:

Shortly, daacget and daacls will no longer work from any machine due to security issues. Rsh has been turned off. SCF is working with Jimmy Rowe to implement new security compliant versions of daacget and daacls on the SGIs tomorrow. *Corregidor* and *nagacity* daacget and daacls access will come along a day later. To use daacls and daacget in the future, a key will be required from every user on every system. Jimmy will provide the information he needs from users in an e-mail to all known users. Everyone will need to work this individually with Jimmy. This is a security issue.

Thunder has had both internal disks replaced and a C-brick replaced. Hopefully, it will be stable for a while.

Items which people rely on and are located on *lightning* will eventually be mirrored elsewhere. This will keep people from having to wait for tape backups, which take days. SAs are looking at options for doing this.

Everyone that has a Mac and is offsite now has a mobile network domain account. PCs will be done later.

SGIs have resumed telling users how much time is left before the password expires.

Be patient with help tickets. SAs resources are currently maxed out dealing with a possible security audit in October.

No one was ready to discuss removing "san" from directory names now that SGI disks are gone. Discussion delayed until next meeting.

SEC:

No meeting was held after the last DMT, but the SEC plans to meet after this one. Big changes may be coming to the directory structures. They will be discussed with the entire DMT once the strawman is put together. Jeff provided a proposal from the automation point-of-view and the SEC is communicating with him.

SUBSYSTEM STATUS:

CM – No SCCRs. Waiting on TK resolution on *magneto* so folks can test.

Instrument – Waiting on *magneto*.

ERBE-like – Plans to convert FORTRAN code to C++ for NPP/NPOESS. Thought to be easier to read/write HDF5 files from C++. Time to revisit ERBE-like and perhaps reorganize the code.

Clouds – Aqua day 27 was not fully cached on disk and therefore not fully included in Test-MERRA2 processing. ASDC is rerunning that day. Data was originally staged for Clouds to run MERRA tests at SCF in August. Data disappeared from production disk after SCF run

of Fridays in Jan'06 and before ASDC run of Test-MERRA2. Images from Fridays in Jan'06 (processed with MERRA2 MOA input) to be posted on web shortly. S'COOL discovered problem in which data over school site retrieved even when no MODIS data available.

Inversion – SGI and Mac cluster files show 10 – 20% differences in LW and WN TOA fluxes for select FOVs. Current thought is that differences stem from one particular branch of code.

Synoptic SARB – July'02 is running with latest TSI input (SCF)

TISA grid – ASDC expects 7/04 Test-MERRA2 SFC to be complete by next Friday. ASDC to rerun failed Sep'02 CER6.2P1 job after the MERRA2 processing completes.

TISA averaging – Subsystem 10 delivery for Terra/Aqua ValR9, Aqua ValR10, Terra Edition2E, and Aqua Edition2B SRBAVG has been substantially delayed. This affects PRs 108-07 to 113-07. TSI delivery is of higher priority.

GGEO – Jan'06 GGEO finishing today. Problem encountered running GGEO was due to no overlap and is solved.

AWRS (registering websites):

Website registration of all "landing sites" is requested by the end of Oct'07. Erika's understanding at the time of the last meeting was that most Science Directorate sites would be registered by Katie, Jay, and, possibly, Ben, however that is NOT the case. Erika is willing to register CERES related "landing" sites, provided the curator provides her a completed checklist from which to enter the information. Before taking Erika up on this offer, check with the NASA official listed on the site. Some may prefer to register all their sites with one person. Louis, for example, is registering all of Pat's site, including Clouds. See John Robbins if you need a copy of the checklist or have questions. John and Joanne made the DM and CM sites compliant. Jay and Katie are also resources. John and Lisa Coleman have a list of sites that DM and CM pages link to and should, probably, be registered. Sites which are non-compliant can, and should, be registered, but you will need to provide a date by which they will be made compliant. "Landing site" is currently thought to be one for which all sites beneath it have same NASA official, possibly same curator, same look, and similar web address. Sites not registered may result in the server being taken off the network. Sites developed from now on should be done in the portal.

@LaRC e-mail

@larc e-mail will exist until the end of this year. After that, it's dicey. It could go away and come back later. If you would like to keep getting e-mail from your subsystem while it is in production and you are not using a one NASA address, you need to schedule a redelivery.

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?
- discuss removing "-san" from directories (delayed from 2 and 4 weeks ago)