02/20/2008 CERES Data Management Team Meeting

Upcoming Events:
May 6-8, 2008 CERES Science Team Meeting in Newport News City Center

Notes from the previous meeting (02/06/2008)

ANNOUNCEMENTS:
G5-CERES seasonal validation months are delayed another week.

ASDC:
On the average 94-97% of the disk space on *warlock* is full.

Working on TISA Averaging and Instantaneous SARB.

Have not yet received SynSARB (see related comment under SARB).

Regarding the "daacget" problem some testing has been done to gather statistics on attempts vs. successes and the (average) time to retrieve files. Though they had not completed evaluating the results, some preliminary findings are that of 12,000 attempts, there was a 99% success rate and the average retrieval time was 90 seconds per file; retrievals were from a combination of cache and disk.

Other problems related to "daacget" were that when retrieving Ephemeris and Attitude <u>using the backslash</u> did not work but without using it did. With other files it worked as it should – using the backslash. Another report was that the "daacget" works, but the banner warning that this is a Government computer pops up with each file.

Regarding StorNext they are still having an issue with backups running correctly.

mag502 is back online. It and *mag503* should replicate the way *mag501* works.

Regarding the status of tracking files that are missing from the order tool but are available on the archive, nothing has been done on that since the last meeting.

The 'initial' set of automation meetings is complete. Instrument was the last one. However, there may be a second round of these meetings.

SCF:
The maintenance-rotation period for *insanity* is going to change from the 7-8 weeks as originally planned to 4-5 weeks. *insanity* gets high i/o usage. This should resolve all issues they've seen. This routine maintenance event is a 3-hour process that begins either late Friday or early Saturday.

"Slowness" problems are still being reported on *thunder* and *lightning*.

Scott had several questions regarding the Emacs issues discussed in the previous two meetings. The bottom line is that there appear to be problems with "Emacs" and "nedit" when using any one of the SGIs but not with "vi".

SEC:
There were two topics at the recent SEC meeting.
1. How to handle CERESlib for Edition2 and Edition3?
   a) There will be two versions of CERESlib – one for Edition2 and one for Edition3.
   b) Code will link to required 'version' based on Edition number.
   c) Use different environment script to source required version of CERESlib.
2. How to handle CM in the automation era?
   a) CM will run test cases according to the subsystem's Test Plan as it's done now and then copy appropriate files to the new automation test area and run test cases again using the automation scripts.
   b) Will need to add tables to test cases in Test Plans with information for testing automation – this may look a lot like a PR.

Also, Denise said that she asked Jeff Walter to become an official member of the SEC.

Denise is going to be out of town next week for C++ training but said that the SEC meeting notes should be available by the next DMTM.

Tammy said that she was planning to deliver an OpsMan template to Victor this afternoon.

SUBSYSTEM STATUS:
CM
TISA Averaging Subsystem 8 delivery (SCCR 667) rescheduled from 2/8 to 2/22. TISA Averaging Subsystem 10 delivery (SCCR 650) rescheduled from 2/29 to 3/14.

Discussed SCCRs 667 and 668.

Instrument
The Instrument delivery is no closer due to NPP and fighting with *thunder* and *lightning* and the cluster. Denise and Dale will be in C++ class (Boulder) next week.

ERBE-like
Working on Edition2 unfiltering coefficients and using new directory structure – it's working fine.

Clouds
Most effort now is being spent on the delivery scheduled for this Friday. So far it looks good but may slip a day into next week.

Convolution
Wrapping up Beta1-Edition3 changes.

It was noted that both Norman Loeb and Dave Kratz each had a new parameter they want added to the SSF.

Inversion
Trying to get Beta1-Edition3 code working in new structure.

Sample Read Package inputs are nearly ready – they will be ready shortly.

SARB
Delivered MATCH data files.

SynSARB released. There was some question whether SynSARB had been released to the DAAC. Tammy said that it was released a week or so ago. It is not on the ASDC list of deliveries.

Working on changes to code for OMI format. The assumption is that OMI will be a backup for G5-CERES once it's been validated.

TISA Gridding
Regarding the new directory structure, Gridding is doing okay and GGEO is doing not so okay. Denise suggested that GGEO may be able to get a waiver on new directory structure.

TISA Averaging
Regarding the SS8 code delivery, everything has been tested on *thunder* and *lightning* – all is fine. Testing on *mag501* – not so good; core dumped. Also noticed when the code runs successfully on *manila*, it doesn't necessarily work on *magneto*. *magneto* doesn't appear to like DO loops that start at zero – this problem has been addressed. There have been a series of problems in merging PGEs 8.1P1 and 8.2P1 together.

Agenda:
ASDC Status
   SI&T
    Interfaces
    Operations
    User Services
   – daacget/daacls status?
   – Cases where CERES data are available in the archive but not via the ordering tool have been identified. Until ASDC reports measures taken to ensure this doesn't happen in the future and checks for additional, substantial data gaps have been made, this will remain a meeting topic.
   – StorNext status?
   – *mag502* and *mag503* status?

– From the last meeting, Lisa Coleman will be providing a list to the DAAC of PCF and log files that may be deleted from archive. What's the status on this?

SCF Status
– Open Directory status?
– Emacs on *thunder* status?
– In the CERES SCF Status report from the last meeting it said, "A Preventative Maintenance plan is being developed for implementation later this month" which is what it said in the previous report. What is the target implementation date?
– Verify plan is to have TK upgrade to v14… or v15 by March 31, 2008. Put specific date(s) in the "CERES SCF Status" table for "certain time", i.e., a mid-March start to be completed NLT March 31, 2008.
– Complete the "Magneto IBM 970" column in the "CERES SCF/ASDC Server Information" table.
– Renaming of LaRC Domain accounts in regard to Heather Callahan's "Wed 2/13/2008 5:01 PM" email (Renaming of LaRC Domain accounts).

SEC Activities

DM System Issues and Status
Processing Priorities
Schedule
SCCRs
Instrument Special operations
Subsystem Reports
– OMI status?

Other