8/6/2008 CERES Data Management Team Meeting

Upcoming Events:
Aug 26, 2008 NPP SDS SD3E, Land PEATE, CERES Delta Design Review at GSFC
Aug 27 – 28, 2008 NPP SDS MOR at GSFC
Oct 27–29, 2208 CERES Science Team Meeting at GISS in NYC. Hotel rooms are extremely
limited.

Notes from the previous meeting (7/23/2008)
ANNOUNCEMENTS
none

ASDC
X86 test platform has Intel FORTRAN and C++ compilers installed. Ada compiler received is
for PowerPC and not X86.

Majority of the IBM h/w has arrived. IBM coming on Aug 18 to do the install. What follows is
a whole series of events, of which the first one to affect CERES is probably when the system
in up and ready for the DMT to begin testing. Estimated time frame for that is Dec'08.

Power outage on July 18 – 19 did not result in any CERES related problems. Outage was to add
power needed for new machines. Some additional PDUs still need to be installed, but require
no downtime.

StorNext upgrade has, so far, lived up to Quantum's promises. Since upgrade, 75,000 files
written; 200,000 MODIS files staged; and 30,000 files retrieved to fill orders. System has
been busy but has not encountered failures.

IT Security certification process began last week and will finish this week. ASDC expects to
receive authority to operate.

Disk space is at 92%.

SCF
Ada compiler on Mac cluster is working. Instrument needed extra environment variables which
everyone may eventually also want. Ada does not work on the other Mac machines, they
keep dropping the SAN.

All SD web-servers to move to ASDC. Currently planned for Aug 14 – 20. Expected downtime
is estimated to be ~15 minutes.

All servers in B1250 will be to ASDC. Date is currently up in the air.

Keep using the current SCF help ticket system until notified otherwise.

Power outage last weekend did not cause any problems for CERES. Sunny reported problem of several SAN directories containing MODIS inputs coming up empty after the power outage, however this turned out to be a false alarm. As far as anyone knows, no files were lost from the SAN. If you should ever find a SAN directory that is supposed to contain files but is actually empty, please send in a help ticket immediately.

Last week there were problems with Insanity. SCF missed a PM cycle and the SAN had been up for 70 days. PM has taken place and everything should be fine. Expect next PM in 35- 40 days.

Leyte is coming! *Leyte* will be a 4 CPU intel Mac (2 dual core processors) with 8 GB of memory. It's purpose is to be an OpenDX server and code development area. It has double the capacity of *manila, corregidor*, and *nagacity*. It works the same as the other computers in terms of username/password, however, if you plan to use it, send Scott an e-mail requesting for home path.   Historical background: OpenDX on *manila, corregidor*, and *nagacity* takes lots of resources.   It's not always feasible to run OpenDX on a desktop as it requires 1 GB of the 2 GB of memory and degrades the OS performance.

Toolkit 5.2.15 and HDF. ERBElike normal compression calls within HDF-EOS don't work. Instrument also has compression problems which Ashley is looking into it. Subsystem 8 also has HDF compression problems, which may or may not be related to those instrument is experiencing. Ed suspects attributes are stored as Vdata but can't, and shouldn't, be compressed. Underlying HDF may have changed which in turn requires code changes. Cathy is using generic code developed by Ed years ago. That code needs to be updated and may be something the HDF guru maintains. Erika to send e-mail to Lisa, who is currently on vacation.

Ops Manuals may not be off Framemaker before the servers go away. Documentation will take a survey to help us get our arms around this and determine whether we need to request that the SCF extend the deadline, currently set for Oct 31 or sooner. Plan is for Tammy and Joanne to keep Framemaker on their PCs for several more years. EVERYONE that has Framemaker files should ensure that a pdf copy of each file also exists.   Without the pdf, you WILL be up a creek once Framemaker is gone.

SEC
Lisa Link is the new SEC chair.

As far as /QA is concerned, it was determined that a disk will be needed for non-archived Web files. Archived files can be ordered by push subscription or will be on cache in front of the archive and accessible by daacget. Presumably a disk will be available from the ones being ordered for ANGe. Sue Sorlie is working this, and it is no longer an open SEC item.

Open SEC item that has not yet been discussed is CERES policy when code on various production machines is forced to differ in order to execute properly. This hasn't yet happened, but could in the future.

Priorities
ASDC suggested that both a Feb with 28 and one with 29 days be included in Beta5 TSI
(SS7.1.1) processing request.

CM
Tammy was on vacation and we were running far behind schedule, so no SCCRs were reviewed
and there was no schedule discussion.

SUBSYSTEM STATUS:
Instrument
If a subsystem has a perl module it wishes to use, make sure ASDC is aware of it ahead of time.
The PERL5LIB environment variable must be manually passed into SGE on the command
line. DO NOT use environment scripts.

ERBE-like
Dale to talk to Joanne about Word conversion of "CERES Software Coding Guidelines."

Clouds
Sunny has converted the 5 Edition2 PGEs and scripts on the Mac (*nagacity*). She has
successfully run them and verified that the output created on the Mac is identical to that
created on the SGI.

Convolution
Working on NEWS.

Inversion
Victor still has the problem that some Edition2 parameter values computed on the Macs differ
considerably from those computed on the SGI. Victor is on vacation for next few weeks.

SARB
Edition2 conversion is on hold. Can run but results don't match.

Running G5-CERES comparisons for Tom Charlock. Expect to send Tom results tomorrow.

TISA Gridding
Raja was unable to attend. Liz had nothing to add.

TISA Averaging
Subsystem 8 delivery had difficulties in SSI&T but is now running on *magneto* and *warlock*.
There are still issues with the plotting.

Subsystem 7.1.1 delivery to correct the number of days expected each month was delivered in
the new directory structure.   There was a problem related to the directory in which it was
placed. (Tammy needs to talk to Tonya to get details.)