

1/11/06 CERES Data Management Team Meeting

Agenda and Notes from last (12/14/05) Meeting

Upcoming Events:

Happy New Year!

Spring CERES Science Team Meeting in Williamsburg, April 26 – 28, 2006 ?

Fall'06 CERES Science Team Meeting at GISS (NYC), early Nov'06

Priorities:

Near-term Processing:

- Terra Edition2D SRBAVG for 3/00 – 2/03
- Terra Beta4 SRBAVG for 3/03 – 12/04
- Edition1-CV/Ed1-NoSW-CV BDS/ERBELike
- Aqua Edition2A SSF/SFC/SRBAVG
- Aqua Edition2A CRS/FSW

Long-term Processing: Terra and Aqua Edition2 AVG

Data Management

- Code Conversion
 - Delivery process to IBM cluster
 - Mainstream SARB conversion
 - Synoptic SARB
- SCF
 - Zamboanga cluster configuration and testing
 - ceresarchive movement to new platform

Notes from last meeting:

Mike Little, Danny Mangosing, and Jim Donaldson joined us. Danny provided a handout of the items he discussed.

Notes from Mike's talk on SCF's Mac cluster (Zamboanga):

- In March 2007 thunder and lightning will be decommissioned. Lanina will remain for one year after that. (SGI maintenance too expensive)
- Subsystems must convert way jobs run. Submit jobs differently. Run multiple jobs on cluster.
- 3 main hurdles
 - convert code to run on power PC and SGI
 - submit jobs to run as many as possible
 - interact with cluster
- Cluster is compute appliance.
 - No interactive access available.
 - No editors.
 - No Multiuser logins.
 - Access head node indirectly; no access to compute nodes.
 - Must prestage data on sanfilipe

- Mac desktops to get CERESlib and toolkit so folks can run/compile. No tight configuration control
- manila and corregador to be used to verify code before submitting to zamboanga. These machines to have tight configuration control.
- Viewhdf already on mac.
- Scott has developed SARB template
 - help and resources available to other subsystems
 - Structure and format same for other subsystems
 - Fields differ between subsystems
- Science will be briefed on this information at a later time.
- CERESarchive not backed up; RAID50 highly reliable
- Sanfilipe backed up
- Don't worry about AMD cluster yet

Additional notes from Danny's talk:

- Jim Donaldson's code running on mac cluster
- S4P not to be used - Perl scripts to automate process to set up run
- 2 script options
 - convert current scripts so no IRIX commands in shell scripts
 - convert to perl (like SARB)

SA support may not be at normal levels during particularly busy times.

Warlock crashed Saturday and locked up Tuesday. TISA averaging jobs may be exceeding what system can handle – have scaled TISA back to no more than 10 jobs. SSI&T noticed TISA averaging problems when running smaller number of jobs.

IBM cluster IDL support can't be done at this time – no impact on CERES.

TISA averaging working on new PGE to produce ISCCP-like outputs. Needs to be added to delivery schedule. Get DPC pages to Tammy before making delivery.

Inversion discovered “- static” compiler option was left off most recent delivery. Will redeliver shortly.

Notes from discussion on using unique CC# based on platform

Goal is to determine which files run on given platform.

Can also be done by scanning metadata – ASDC agreed to do this for us if needed.

- Pros of using unique cc# for each platform
 - From filename identify platform used
- Cons of using unique cc# for each platform
 - Causes production confusion
 - May have no direct knowledge of where run
 - Adds CM complexity
 - Adds complexity to documenting CC#
 - Post processing of data more complicated

- Harder to determine files from PCF

Conclusion was to have single CC#. Sue Sorlie representing ASDC and Lisa Coleman representing SARB were very opposed to unique cc# based on platform.

Unless PR is for ValR files, CERES should not specify platform.

Items to be discussed this meeting:

- ASDC system (including cluster) and operation status
- User Services status
- SCF status
- Processing plans
- Subsystem Updates
- Interfaces
- Beta/Edition3 updates
- Updates on any CERES related proposals or projects (A-train NEWS, FLASHflux, etc.)
- /QA discussion

Date and location of DMT mtg:

10:00 in B 1250, rm 116

Next Meeting: 1/25/06 in B1250, rm 116