CERES SCF STATUS

Description	*July 31, 2002 Status*	*Problems*
1250 Network Upgrade	The SA Group has continued to work with Network Support during this reporting period and have come to an agreement on a modification that will shorten the network route between the offsite facility and Building 1250, therefore, providing better connection to the SCF. We are still working with Network Support to find a solution to the loss of connectivity between the old and the new networks in Building 1250. Recently there appears to be a decrease in the number of occurrences. Prior info: This upgrade will not include any of the buildings included in the first phase of the rehab. The rehab will incorporate the second phase of the CAT 5 upgrade.	
SUN Upgrades	The movement of file systems and the generation of a disk map for upgrading *asdsun* were all completed. The upgrade was delayed due to the unavailability of Carolyn Thomas. We have discovered a method for users to format the optical disks using the new Sony drives under Solaris 8. User data requirements are being assessed prior to Solaris 8 upgrade of systems requiring optical drives.	
SGI Upgrades	No additional updates at this time. Prior info: The systems *howler* and *whiteout* have been upgraded from IRIX 6.5.11m to IRIX 6.5.15m. The SGI compilers on these systems were upgraded from Version 7.3.1.2m to version 7.3.1.3m. Tim Murray is currently testing the new compilers prior to the upgrade of the remaining Calipso systems including *blizzard*. No problems have been reported at this time. The SCF is about to start the SGI upgrades to IRIX 6.5.15m to standardize with the OS being loaded at the ASDC. The current plan is to upgrade the Calipso workstations first. We are experiencing a slip in the schedule to upgrade *blizzard* and possibly *thunder* and *lightning*. We did not anticipate it would require a week to download the new OS, compilers and required subsystem software from the SGI site.	

Description	July 31, 2002 Status	Problems
Security	We are currently testing an SGI product called IPfilter which is a packet filtering product which will provide additional security for our systems located outside the NASA firewall. We are also testing a Solaris version of the product. At this time the results are preliminary; therefore, we have not determined the feasibility of incorporating this product into our standardization. The SA Group is continuing to monitor for undesired connections to the SCF systems. Any attempted connections are immediately reported to Network Security.	
SAM II Data Transfer	Two major problems occurred delaying the current recopying of requested images by the Sage group. These problems were corrected and the images are being copied.	

Toolkit	An attempt was made to compile the toolkit without HDF version 5-1.4.3 and HDF-EOS version 5.1.2. It was determined that this may be possible, but not without modification to the toolkit source code. It was decided not to modify the source code.
	
	Prior info:
	The latest version of the toolkit was downloaded from EOS. It has been compiled and installed on *thunder* and *lightning* for preliminary testing. As previously reported, the brand "sgi" has been eliminated from the toolkit. The SGI compilers do not support the ISA value of 32 or the ABI value of mips2. With effort we reinstalled the brand "sgi" and compiled it with the NAG 95 compiler. The associated parts of the toolkit and revisions are as follows:
	
	`Software        Version`
	`--------------  -------------`
	`HDF-EOS         2.8v1.00`
	`HDF-EOS         5.1.2`
	`HDF             4.1r5`
	`HDF             5-1.4.3`
	`SDPTK           5.2.8v1.00`
	
	`BRAND           COMPILER         ABI          ISA`
	`-----------     ----------------  -----        --------`
	`sgi             f95 (NAG)         64           mips4`
	`sgi32           f90 (SGI)         n32          mips3`
	`sgi64           f90 (SGI)         64           mips4`	

Description	July 31, 2002 Status	Problems
DMSS Transfer	Upon attempting to start archiving data to the tape archive from the /CERES/DMSS disk area on *lightning* (as per Walt Millers request), the tape archive was found to be down. Upon investigation it was discovered that the PC controlling the robot and the tape database, had a power supply failure. This was replaced, but due to the nature of the failure, it had also caused corruption of the data database on the host system. This was also corrected. The requested data is currently being archived and is approximately 80% complete.	
SAIC Offsite Network	We will begin phasing out old FDDI network hardware and replacing it with the new Cisco Gig-E hardware during this month.	

CERES SCF/DAAC Server Information

Server Name:	Asdsun	Blizzard	Thunder	Lightning	Darrin	Samantha	Warlock
System Type	Enterprise 5000	Power Challenge	Origin 3800	Origin 3800	Origin 2000	Origin 2000	Origin 3800
Operating System	Solaris 2.6	IRIX64 6.5.11m	IRIX64 6.5.11m	IRIX64 6.5.11m	IRIX64 6.5.15m	IRIX64 6.5.11m	IRIX64 6.5.15m
Fortran compilers	SUNWspro 4.0	7.3.1.2m	7.3.1.2m	7.3.1.2m	7.3.1.2m	7.3.1.2m	7.3.1.2m
Toolkit	TK5.2.7v1	TK5.2.7v1	TK5.2.7v1	TK5.2.7v1	TK5.2.7v1	TK5.2.7v1	TK5.2.7v1
Ada	N/A	1.3	1.3	1.3	1.3	1.3	1.3
IDL	5.1.1	5.4	5.1.1	5.1.1	5.2	5.2	
NAG fortran 95	1.0(428)	1.0(428)	1.0(428)	1.0(428)	1.0(428)	1.0(428)	1.0(428)
HDF	4.1.r3	4.1.r3	4.1r3	4.1r3	4.1.r3	4.1r3	4.1r3
Proposed upgrades	None	OS & Compilers	None	None	None	None	None
Problems	None	None	None	None	None	None	None