

## CERES SCF STATUS

<i>Description</i>	<i>August 14, 2002 Status</i>	<i>Problems</i>
<b>1250 Network Upgrade</b>	<p>The routing between the off-site facility and Building 1250 has been modified to facilitate improved connections. The SA team is currently monitoring this routing change.</p> <p>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.</p> <p>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.</p>	
<b>SUN Upgrades</b>	<p>The upgrade and moving of <i>asdsun</i> to the new Gig-E network has been contingent upon Carolyn Thomas obtaining a new license file for the T&amp;A software. The SA team has now learned that the maintenance on the T&amp;A software has lapsed; therefore, Ms. Thomas is unable to obtain an upgraded license. Since NASA will be moving to a new WebTADS system in September, the plan is to leave <i>asdsun</i> at Solaris 2.6 and on the old network until NASA migrates to its new system.</p> <p>Prior info: 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.</p>	

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<b>SGI Upgrades</b>	<p>After discussion with the ASDC and SGI it has been decided to standardize on IRIX 6.5.16m in lieu of IRIX 6.5.15m. IRIX 6.5.16m has been downloaded from the SGI website and installed on <i>whiteout</i> and <i>vento</i> including the matching compilers 7.3.1.3m. Upon completion of the standardization of the new <i>samantha</i> and testing of the new OS and compilers, the remaining systems will be upgraded to IRIX 6.5.16m. SGI's recommendation of going to IRIX 6.5.17m was rejected since it is not the latest officially released version of the OS and fear that there will be limited 3rd party support at this time.</p> <p>Prior info: The systems <i>howler</i> and <i>whiteout</i> 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 <i>blizzard</i>. No problems have been reported at this time.</p> <p>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 <i>blizzard</i> and possibly <i>thunder</i> and <i>lightning</i>. We did not anticipate it would require a week to download the new OS, compilers and required subsystem software from the SGI site.</p>	
<b>Security</b>	<p>No change from previous report. Testing of the firewall, IPfilter, continues.</p> <p>Prior Info: 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.</p> <p>The SA Group is continuing to monitor for undesired connections to the SCF systems. Any attempted connections are immediately reported to Network Security.</p>	
<b>SAM II Data Transfer</b>	No additional updates at this time.	

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<b>Toolkit</b>	<p>Testing is currently ongoing with the latest version of the toolkit. The SA department is currently investigating the possibility of compiling HDF version 5-1.4.3 without dynamic libraries. Pending this investigation the new toolkit, version 5.2.8v1, may be recompiled.</p> <p>Prior info: The latest version of the toolkit was downloaded from EOS. It has been compiled and installed on <i>thunder</i> and <i>lightning</i> 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:</p> <table><tr><td>Software</td><td>Version</td><td></td><td></td></tr><tr><td>-----</td><td>-----</td><td></td><td></td></tr><tr><td>HDF-EOS</td><td>2.8v1.00</td><td></td><td></td></tr><tr><td>HDF-EOS</td><td>5.1.2</td><td></td><td></td></tr><tr><td>HDF</td><td>4.1r5</td><td></td><td></td></tr><tr><td>HDF</td><td>5-1.4.3</td><td></td><td></td></tr><tr><td>SDPTK</td><td>5.2.8v1.00</td><td></td><td></td></tr></table> <table><tr><td>BRAND</td><td>COMPILER</td><td>ABI</td><td>ISA</td></tr><tr><td>-----</td><td>-----</td><td>----</td><td>-----</td></tr><tr><td>sgi</td><td>f95 (NAG)</td><td>64</td><td>mips4</td></tr><tr><td>sgi32</td><td>f90 (SGI)</td><td>n32</td><td>mips3</td></tr><tr><td>sgi64</td><td>f90 (SGI)</td><td>64</td><td>mips4</td></tr></table>	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	
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<b>DMSS Transfer</b>	The SA department is currently transferring identified data from the DMSS partitions on <i>thunder</i> to the tape archive.																																																	
<b>SAIC Offsite Network</b>	<p>The SA department is currently in contact with Cisco on the replacement of the FDDI backbone with a Gig-E backbone. We are working through the problems and this project is proceeding.</p> <p>Prior Info: We will begin phasing out old FDDI network hardware and replacing it with the new Cisco Gig-E hardware during this month.</p>																																																	

### CERES SCF/DAAC Server Information

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