CSAR Service - Management Report

May 2002

This report documents the quality of the CSAR service during the month of May 2002.

A more comprehensive report is provided quarterly, which additionally covers wider aspects of the Service such as information on Training, Application Support and Value-Added services.

This and other such reports are made available through the Web to staff within EPSRC and the other Research Councils, to CfS staff and CSAR Service users. The reports are indexed in a similar way to that which other useful information and news are listed for selection.

1. Introduction

This document gives information on Service Quality and on actual usage of the CSAR Service during the reporting period of May 2002. The information, in particular, covers the availability and usage of the following three main CSAR Service High Performance Computing (HPC) systems:

- Cray T3E-1200E/776 (Turing)
- SGI Origin2000/128 (Fermat)
- SGI Origin3000/512 (Green)

The information is provided in both textual and graphical form, so that it is easier to see trends and variances.

May has seen the workload of the three primary systems at variable levels.

The percentage of Turing CPU capacity used by jobs larger than 64 PEs was 78%.

May also saw the percentage of Green CPU capacity used by jobs larger than 64 PEs at 72%.

2. Service Quality

This section covers overall Customer Performance Assessment Ratings (CPARS), HPC System availability and usage, Service Quality Tokens and other information concerning issues, progress and plans for the CSAR Service.

2.1 CPARS

<u>Table 1</u> gives the measure by which the quality of the CSAR Service is judged. It identifies the metrics and performance targets, with colour coding so that different levels of achievement against targets can be readily identified. Unsatisfactory actual performance will trigger corrective action.

CSAR Service - Service Quality Report - Performance Targets

		Performance Targets							
Service Quality Measure	White	Blue	Green	Yellow	Orange	Red			
HPC Services Availability									
Availability in Core Time (% of time)	> 99.9%	> 99.5%	> 99.2%	> 98.5%	> 95%	95% or less			
Availability out of Core Time (% of time)	> 99.8%	> 99.5%	> 99.2%	> 98.5%	> 95%	95% or less			
Number of Failures in month	0	1	2 to 3	4	5	> 5			
Mean Time between failures in 52 week rolling period (hours)	>750	>500	>300	>200	>150	otherwise			
Fujitsu Service Availability									
Availability in Core Time (% of time)	> 99.9%	> 99.5%	> 99.2%	> 98.5%	> 95%	95% or less			
Availability out of Core Time (% of time)	> 99.8%	> 99.5%	> 99.2%	> 98.5%	> 95%	95% or less			
Help Desk									
Non In-depth Queries - Max Time to resolve 50% of all queries	< 1/4	< 1/2	< 1	< 2	< 4	4 or more			
Non In-depth Queries - Max Time to resolve 95% of all queries	< 1/2	< 1	< 2	< 3	< 5	5 or more			
Administrative Queries - Max Time to resolve 95% of all queries	< 1/2	< 1	< 2	< 3	< 5	5 or more			
Help Desk Telephone - % of calls answered within 2 minutes	>98%	> 95%	> 90%	> 85%	> 80%	80% or less			
Others									
Normal Media Exchange Requests - average response time	< 1/2	< 1	< 2	< 3	< 5	5 or more			
New User Registration Time (working days)	< 1/2	< 1	< 2	< 3	< 4	otherwise			
Management Report Delivery Times (working days)	< 1	< 5	< 10	< 12	< 15	otherwise			
System Maintenance - no. of sessions taken per system in the month	0	1	2	3	4	otherwise			

Table 1

<u>Table 2</u> gives actual performance information for the period of May 1^{st} to 31^{st} inclusive.

Overall, the CPARS Performance Achievement in May was satisfactory (see Table 3); i.e. Green measured against the CPARS performance targets. The Fujitsu availability figures are included in Table 2, but not Table 3 as they have zero weighting in CPARS terms.

CSAR Service - Service Quality Report - Actual Performance Achievement

										200	01/2	
Service Quality Measure	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	Мау
HPC Services Availability												
Availability in Core Time (% of time)	99.70%	98.49%	98.49%	98.49%	98.60%	98.60%	100.00%	99.86%	99.73%	99.70%	96.17%	96.08%
Availability out of Core Time (% of time)	99.40	98.49%	100%	99.40	99.50%	99.50%	98.49%	99.89%	99.85%	99.97%	97.75%	99.90%
Number of Failures in month	3	4	2	2	2	2	4	2	1	2	2	1
Mean Time between failures in 52 week rolling period (hours)	584	438	398	365	365	365	337	350	324	313	302	324
Fujitsu Service Availability												
Availability in Core Time (% of time)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	96.89%	100%
Availability out of Core Time (% of time)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	98.92%	100%
Help Desk												
Non In-depth Queries - Max Time to resolve 50% of all queries	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Non In-depth Queries - Max Time to resolve 95% of all queries	<2	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<2
Administrative Queries - Max Time to resolve 95% of all queries	<0.5	<1	<2	<1	<1	<0.5	<2	<0.5	<1	<2	<2	<3
Help Desk Telephone - % of calls answered within 2 minutes	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Others												
Normal Media Exchange Requests - average response time	<0.5	<0.5	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
New User Registration Time (working days)	0	0	0	0	0	0	0	0	0	0	0	0
Management Report Delivery Times (working days)	10	10	10	10	10	10	10	10	10	10	10	10
System Maintenance - no. of sessions taken per system in the mon	0	1	2	2	2	2	2	2	2	2	2	2

Table 2

Notes:

1. HPC Services Availability has been calculated using the following formulae, based on the relative NPB performance of Turing, Fermat and Green at installation:

Turing availability x 143/(143+40+233)] + [Fermat availability x 40/ (143+40+233) + Green availability x 233/(143+40+233)]

2 Mean Time between failures for Service Credits is formally calculated based on a rolling 12 month period.

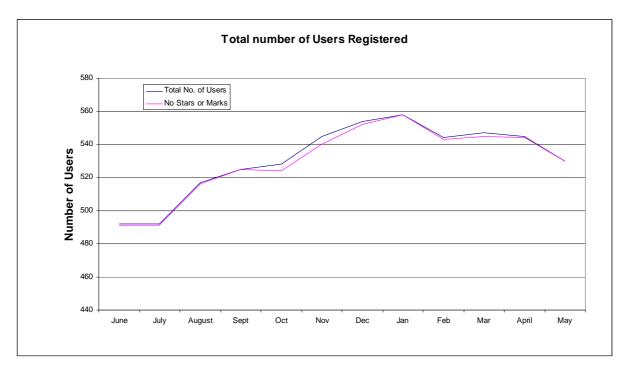
<u>Table 3</u> gives Service Credit values for the month of May. These will be accounted on a quarterly basis, formally from the Go-Live Date. The values are calculated according to agreed Service Credit Ratings and Weightings.

									200	01/2		
Service Quality Measure	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May
HPC Services Availability												
Availability in Core Time (% of time)	-0.083	0.083	0.083	0.083	0.083	0.083	-0.125	-0.083	-0.083	-0.083	0.167	0.167
Availability out of Core Time (% of time)	0	0	-0.1	0	-0.083	-0.083	0	-0.1	-0.1	-0.1	0.083	-0.1
Number of Failures in month	0	0.083	0	0	0	0	0.083	0	-0.083	0	0	-0.083
Mean Time between failures in 52 week rolling period (hours)	-0.083	0	0	0	0	0	0	0	0	0	0	0
Help Desk												
Non In-depth Queries - Max Time to resolve 50% of all queries	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Non In-depth Queries - Max Time to resolve 95% of all queries	0	-0.083	-0.083	-0.083	-0.083	-0.083	-0.083	-0.083	0	-0.083	-0.083	0
Administrative Queries - Max Time to resolve 95% of all queries	-0.1	-0.083	0	-0.083	-0.083	-0.1	0	-0.1	-0.083	0	0	0.083
Help Desk Telephone - % of calls answered within 2 minutes	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Others												
Normal Media Exchange Requests - average response time	-0.1	-0.1	0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
New User Registration Time (working days)	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Management Report Delivery Times (working days)	0	0	0	0	0	0	0	0	0	0	0	0
System Maintenance - no. of sessions taken per system in the mon	-0.1	-0.083	0	0	0	0	0	0	0	0	0	0

Table 3

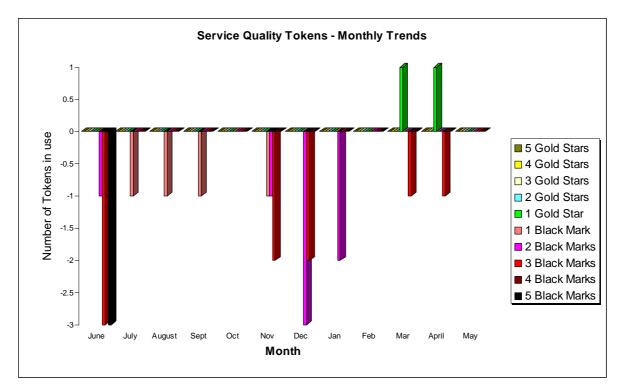
2.2 Service Quality Tokens

The position at the end of May 2002 is that none of the 530 users had awarded either black marks or gold stars to the service.



The graph above shows the total number of registered users on the CSAR Service and the number of users holding a neutral view of the service.

The graph below illustrates the monthly usage trend of quality tokens:



The current status of the Stendahl tokens is that there are no black marks or gold stars allocated to the service.

SUMMARY OF SERVICE QUALITY TOKEN USAGE						
No of Stars or Marks	Consortia	Date Allocated	Reason Given			

2.3 Throughput Target against Baseline

The baseline is shown in GFLOP-Years for consistency with the other information contained within this report.

The Baseline Target for throughput was fully achieved this month due to plenty of work over the period. The actual usage figure was 215% of Baseline capacity.

Job Throughput Against Baseline CSAR Service Provision

	Baseline Capacity for Period (GFLOP Years)	Actual Usage in Period (GFLOP Years)	Actual % Utilisation c/w Baseline during Period
1. Has CfS failed to deliver Baseline MPP Computing Capacity for EPSRC?	12.19	26.2	215.0%
	Baseline Capacity for Period (GFLOP Years)	Job Time Demands in Period	Job Demand above 110% of Baseline during Period (Yes/No)?
2. Have Users submitted work demanding > 110% of the Baseline during period?	12.19	22.6	Yes
		Number of Jobs at least 4 days old at end Period	Number of Jobs at least 4 days old at end Period is not zero (Yes/No)?
3. Are there User Jobs oustanding at the end of the period over 4 days old?		2	Yes
		Minimum Job Time Demands as % of Baseline during Period	Minimum Job Time Demand above 90% of Baseline during Period (Yes/No)?
4. Have Users submitted work demands above 90% of the Baseline during period?		78%	No
	Number of standard Job Queues (ignoring priorities)	Average % of time each queue contained jobs in the Period	Average % of time each queue contained jobs in the Period is > 97%?
5. Majority of Job Queues contained jobs from Users for more than 97% during period?	4	74%	No

Period: 1st to 31st May 2002

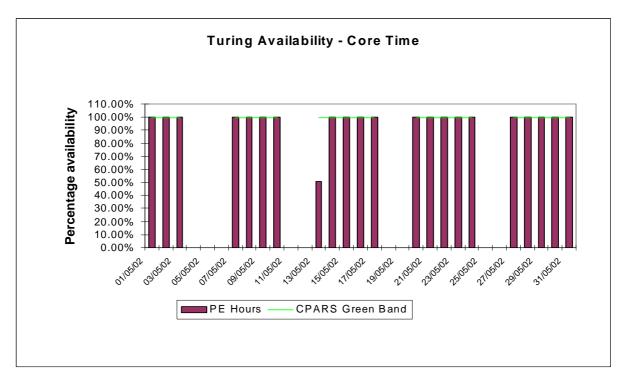
3. System Availability

Service availability each reporting period is calculated as a percentage of actual availability time over theoretical maximum time, after accounting for planned breaks in service for preventative maintenance.

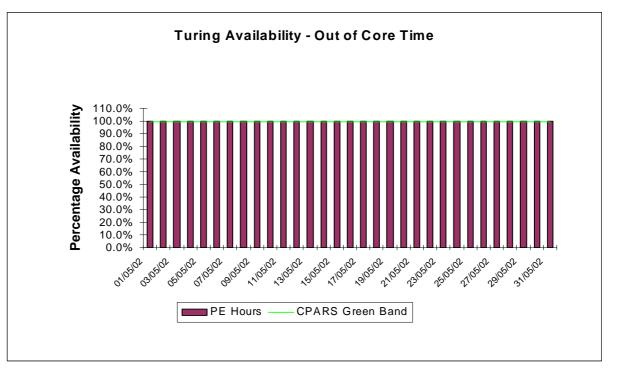
3.1 Cray T3E-1200E System (Turing)

The following graphs show the availability of Turing both in core time and out of core time respectively during the period of 1^{st} to 31^{st} May.

Turing availability for May:



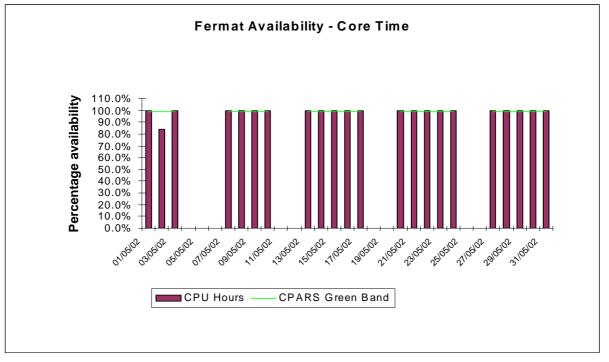
Availability of Turing in core time during May was very good, with the exception of one outage on the 13^{th.}



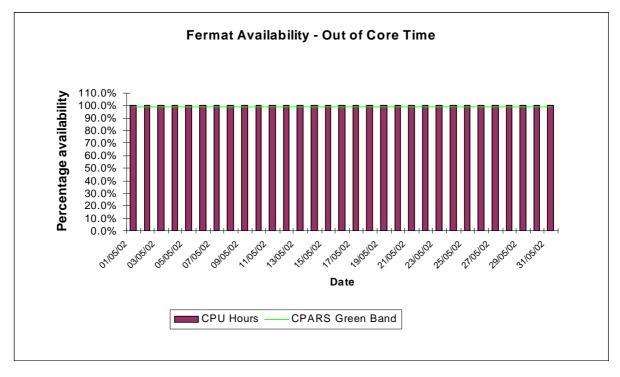
Availability of Turing out of core time during May was excellent.

3.2 SGI Origin2000 System (Fermat)

The following graphs show the availability of Fermat both in core time and out of core time respectively.



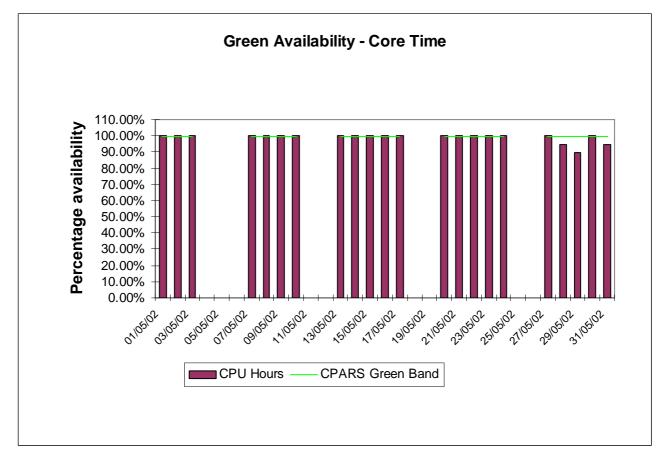
Availability of Fermat in core time during May was very good, with the exception of one outage on the 2^{nd} .



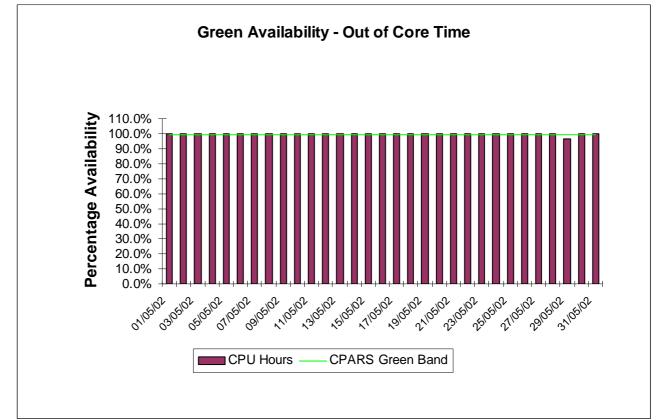
Availability of Fermat out of core time during May was excellent.

3.3 SGI Origin3000 System (Green)

The following graphs show the availability of Green both in core time and out of core time respectively.



Availability of Green in core time during May was good, with the exception of hardware problems causing short outages on the 28th, 29th and 31st.



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Availability of Green out of core time during May was very good, with the exception of one short outage on the 29^{th} caused by the previously-mentioned hardware issues.

HPC Services Usage 4.

Usage information is given in tabular form, in Appendices, and in graphical format. The system usage information for the period of May 1st to 31st, is provided by Project/User Group, totalled by Research Council and overall. This covers:

• CPU usage	Turing: 525,633 PE Hours	Fermat (Batch): 59,039 Hours
•	Fermat (Interactive): 757 CPU H	ours
•	Green: 214,595 Hours	
 Fujitsu CPU usage 	Fuji: 2,156 CPU Hours	
User Disk allocation	Turing: 81.77 GB Years	Fermat: 83.83 GB Years
• HSM/tape usage	2,694.5 GB Years	

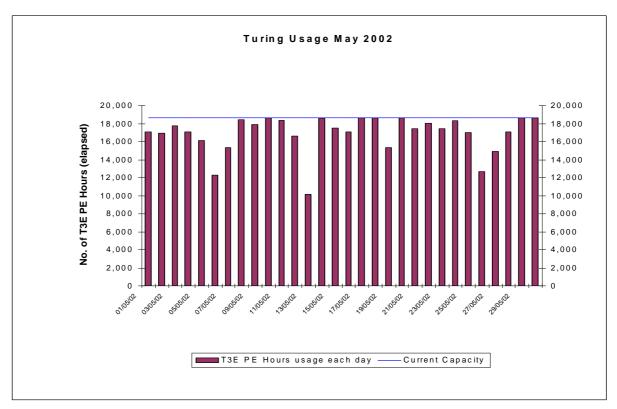
In addition, the following graphs are provided to illustrate usage per month, historically:

- MPP/SMP (T3E/Origin) Usage by month, showing usage each month of CPU (GFLOP-Years as per a) NPB), split by Research Council and by system. The Baseline and the overall Capacity are shown by overlaid horizontal lines.
- SMP (Origin) Usage by month, showing usage each month in CPU Hours, split by Research Council and b) giving the equivalent GFLOP-Years as per NPB. The Baseline Capacity is shown by an overlaid horizontal line.
- High Performance Disk (T3E) allocated for User Data by month, showing the allocated space each month c) in GBytes, split by Research Council. The Baseline Capacity (1 Terabyte) is shown by an overlaid horizontal line.
- d) Medium Performance Disk (Origin) allocated for User Data by month, showing the allocated space each month in GBytes, split by Research Council. The Baseline Capacity (1.5 Terabytes) is shown by an overlaid horizontal line.
- e) HSM/Tape Usage (T3E) by month, showing the volumes held each in GBytes, split by Research Council. The Baseline Capacity (16 Terabytes) available will be shown by an overlaid horizontal line.

4.1 Cray T3E-1200E System (Turing)

The following graph shows the usage of Turing during each day of May 2002. Note that there is some variance on a day-to-day basis as the accounts record job times, and thus CPU usage figures, at the time of job completion which could be the second actual day for large jobs. At present, there is a 24 hour limit on jobs so that they are check-pointed, and computational time lost due to any failure is well managed. Higher limits can be set for individual jobs on request.

Turing usage for May:



The above usage graph for the Turing system shows that the overall workload was variable.

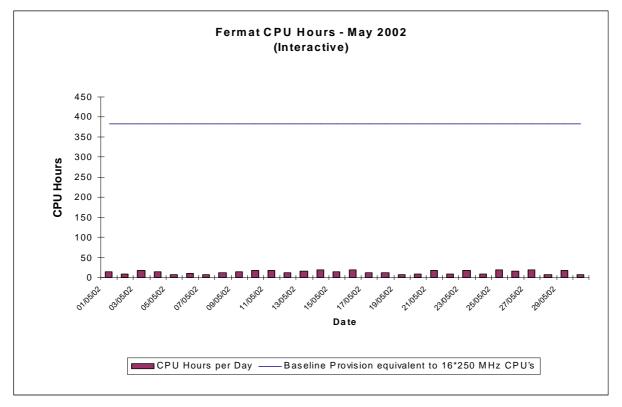
The graph also indicates the workload reached 100% of maximum theoretical capacity some parts of the month.

Fine tuning of the CfS scheduling system will continue to ensure minimal wasting of PE resource, in order to fit in a number of different sized jobs (e.g. 32, 64, 128, 256) thus facilitating maximised job throughput.

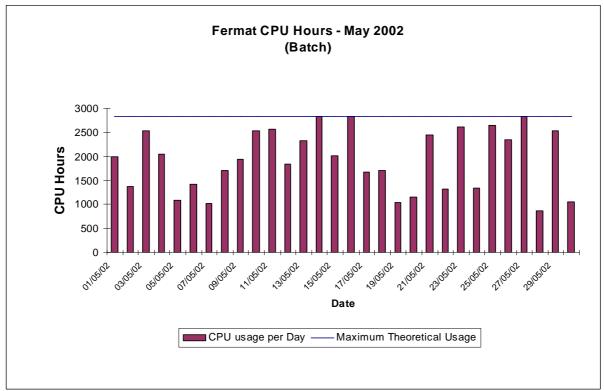
In particular, Turing will continue to start large jobs above 256 PEs, including 512 PEs, when they are queued subject to the overall workload.

4.2 SGI Origin2000 System (Fermat)

The usage of the Origin system was low. The groups most heavily using the Fermat system are CSE006 (Briddon), CSN006 (Price), CSN015 (Proctor) and HPCI Daresbury.

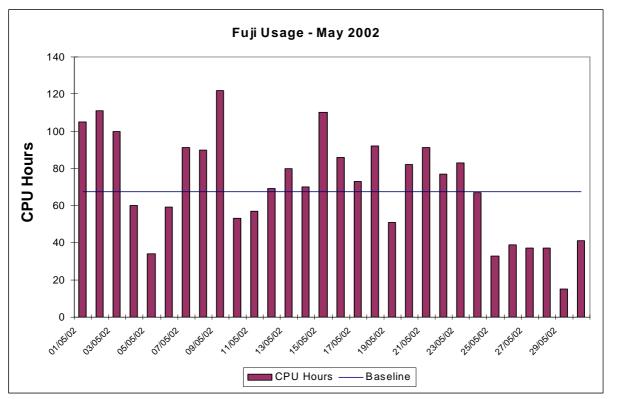


The graph above shows the interactive usage of the Origin 2000 (Fermat).

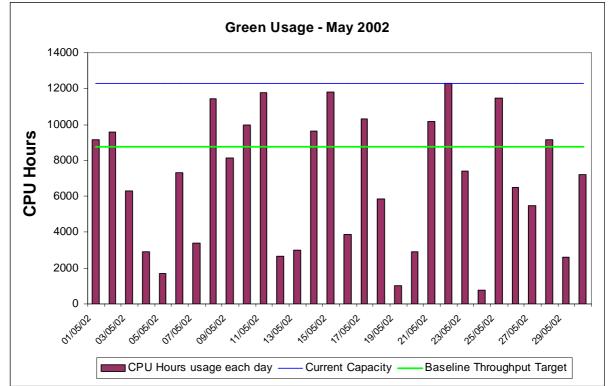


The above graph to a different scale shows the variable batch utilisation of the Origin 128.

4.3 Fujitsu VPP 300/8 System (Fuji)



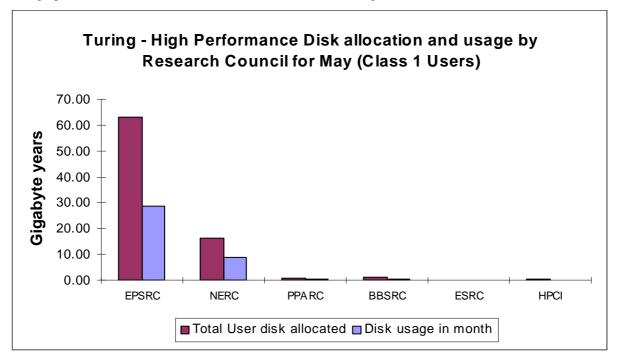
Fuji utilisation was again variable over the month with the overall position resulting in usage above baseline.



4.4 SGI Origin3000 System (Green)

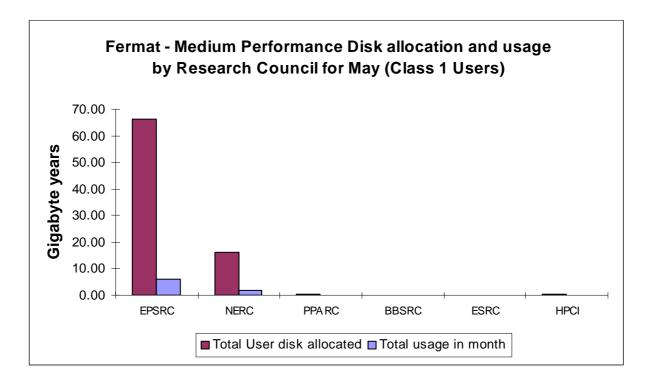
The above graph shows the utilisation of Green for the month of May, which saw the system running with a varied load.

4.5 Disk/HSM Usage Charts

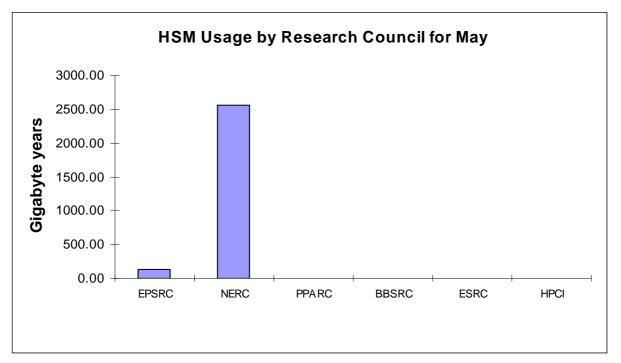


The graphs below show current disk and HSM allocations and usage.

The preceding graph shows actual usage on average against the current allocation of disk on the Turing system.

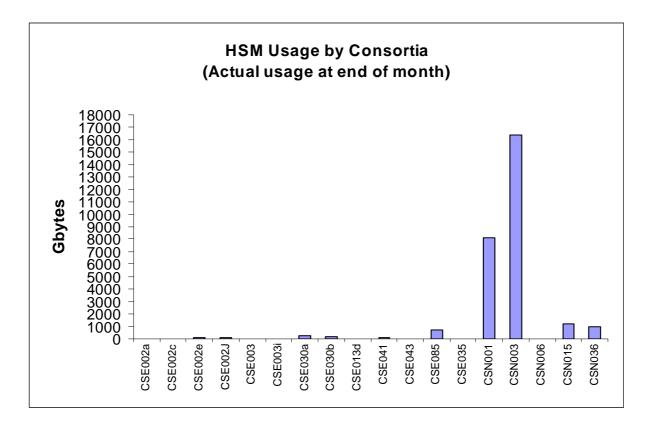


The above graph shows the disk allocations against usage on average of the disk on Fermat.

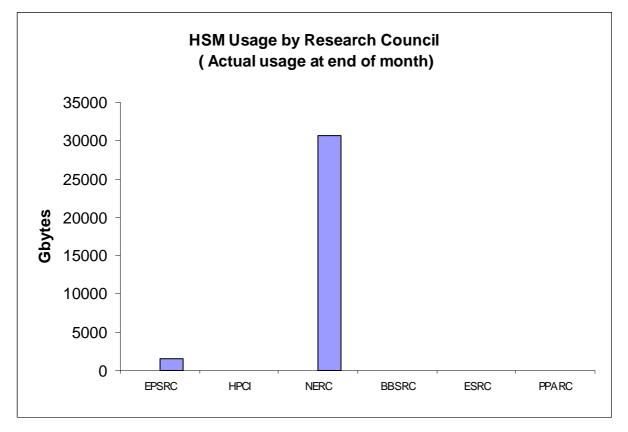


The above graph shows the total usage of the HSM facility by Research Council.

The next two graphs give actual usage of HSM by Consortia and by Research Council.

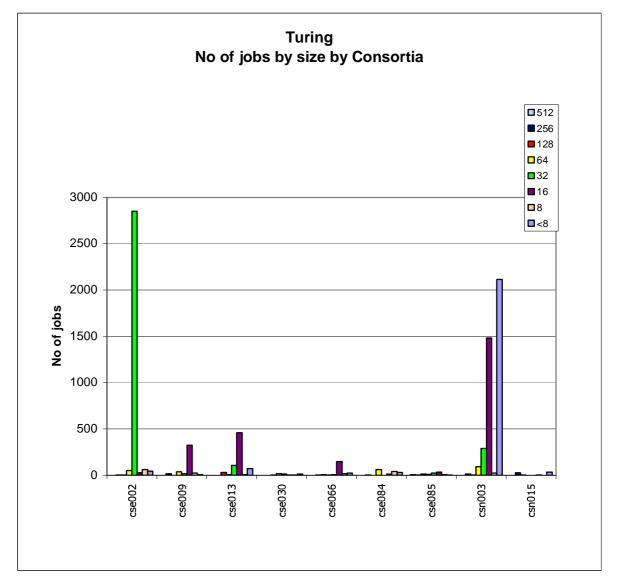


CSE085 (Sandham), CSN001 (Webb), CSN003 (O'Neill) & CSN015 (Proctor) were the major users of HSM resource.

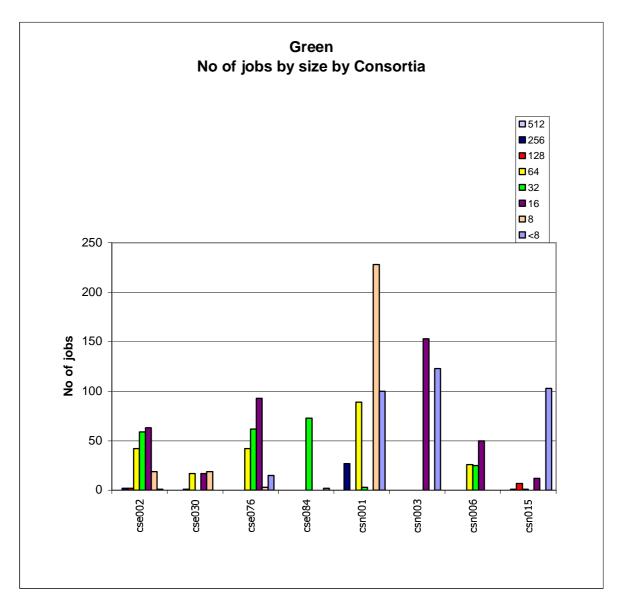


4.6 **Processor Usage and Job Statistics Charts**

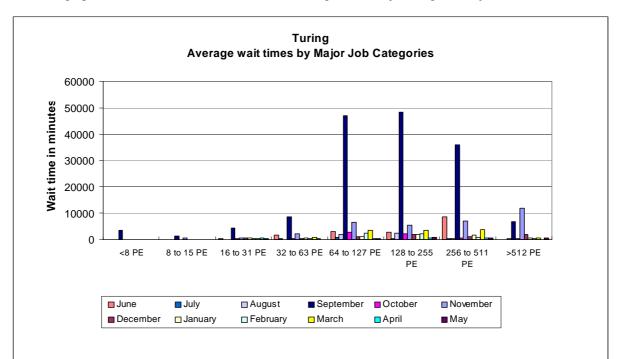
Job statistics for Turing:



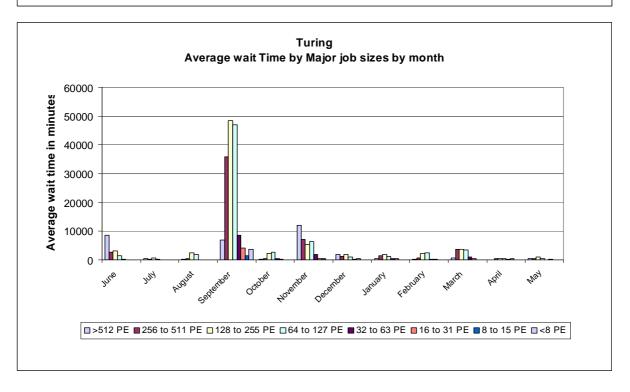
The above graph shows the number of jobs of the major sizes run in the period 1st to 31st May 2002.



The above graph shows the number of jobs of the major sizes run in the period 1st to 31st May 2002.

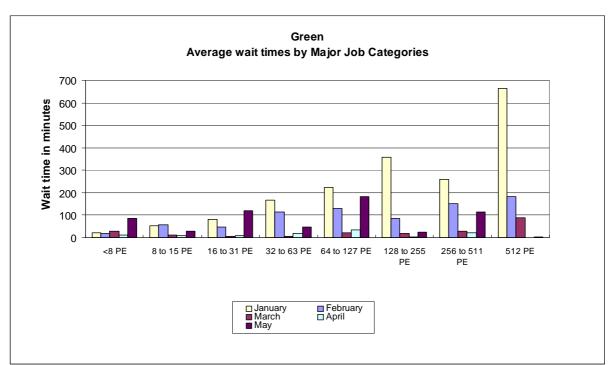


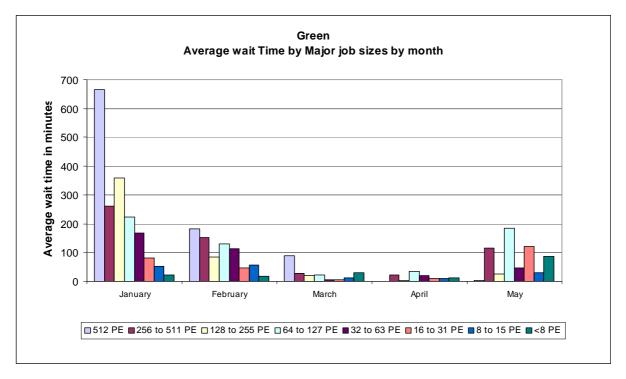
The next graph shows the wait times in minutes on Turing for the major categories of jobs.



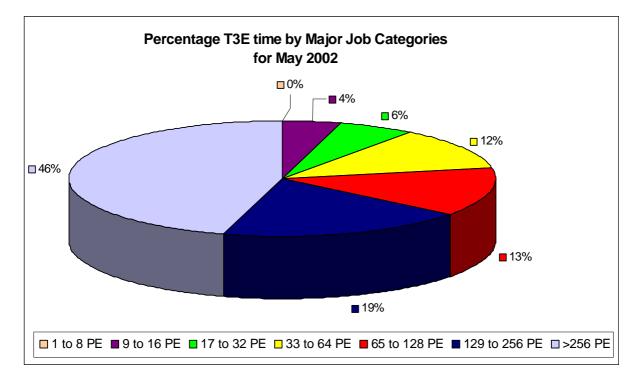
The chart above shows the average wait time trend on Turing over the last 12 months. Wait times for all jobs have continued to stay low now that Green is in full production usage as a 512 PE machine.

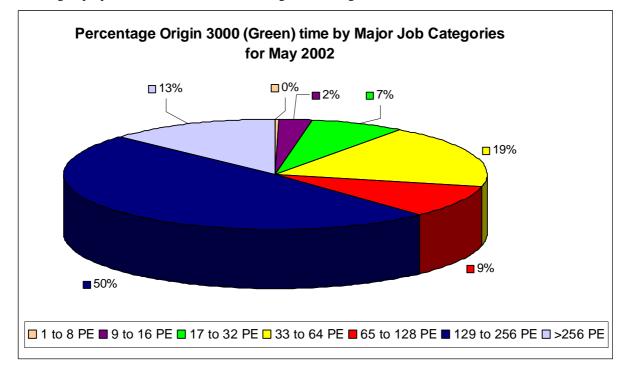
The next graph shows the wait times in minutes on Green for the major categories of jobs:





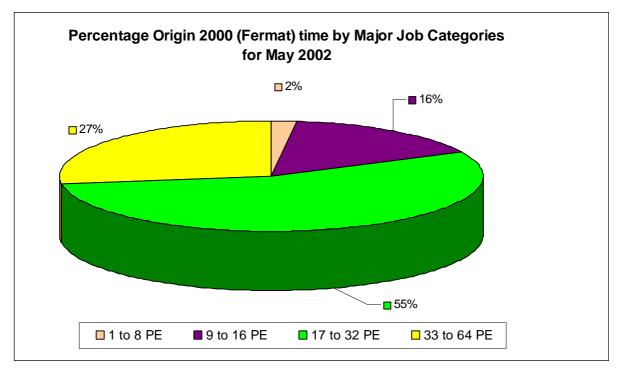
The chart above shows the average wait time trend on Green for May.



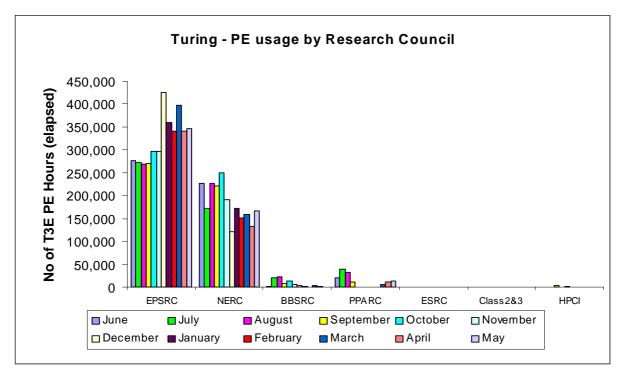


The largest proportion of the workload on Turing, 78%, was greater than 64 PEs in size.

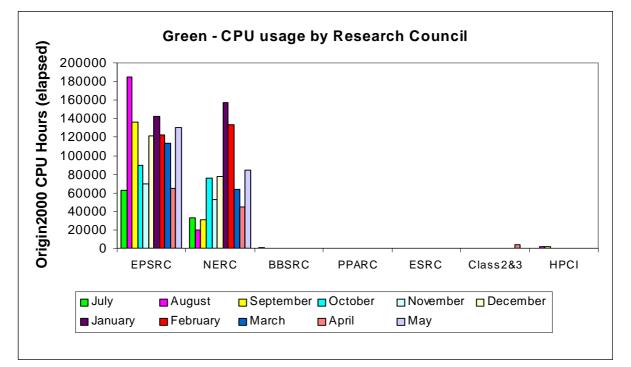
The major allocation of the workload on Green, 72%, was greater than 64 PEs in size.



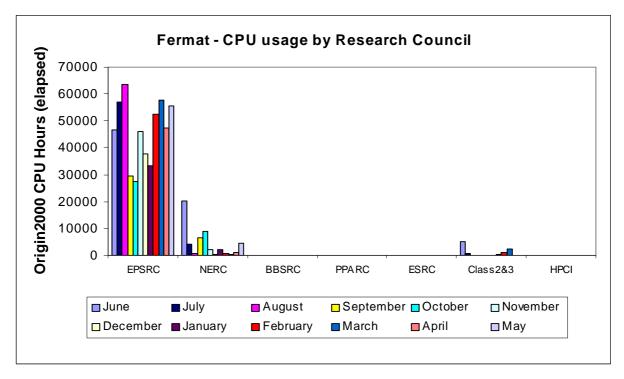
The spread of work across Fermat for May was reasonably varied



Turing PE usage is shown by Research Council during the past 12 months of service in the above chart.



The above chart shows Green CPU usage by Research Council during the past 11 months of service.

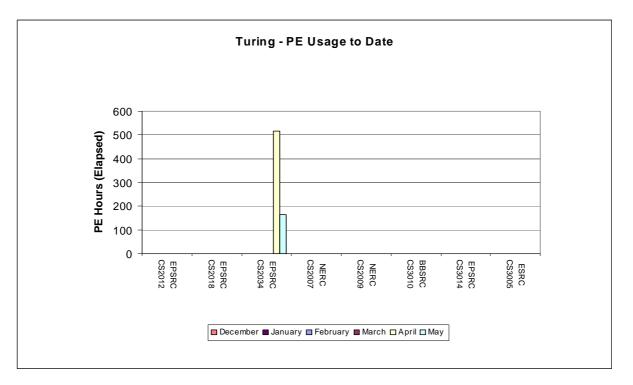


Origin 2000 CPU usage is shown by Research Council during the past 12 months of service in the above chart.

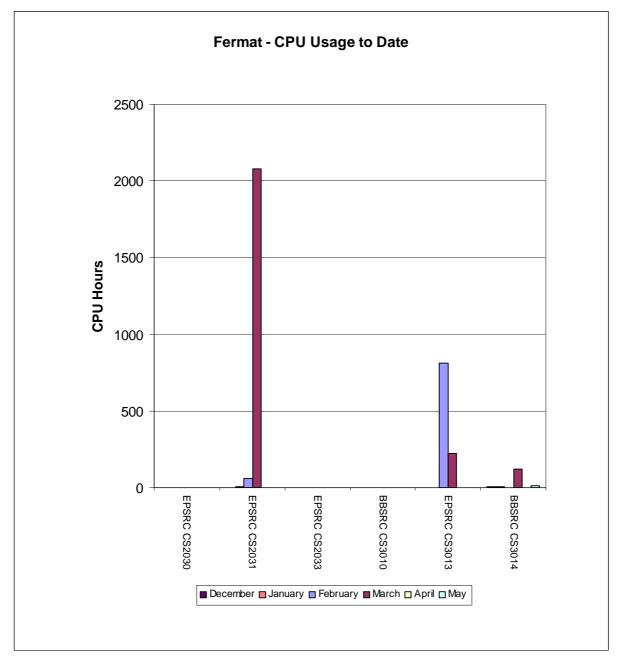
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4.7 Class 2 & 3 Usage Charts

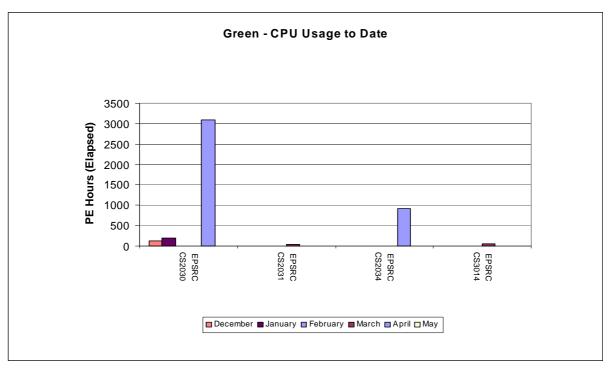
The next series of charts show the usage of the system by the class 2 & class 3 users. The usage is shown by project and identifies the Research Council of the individual projects.



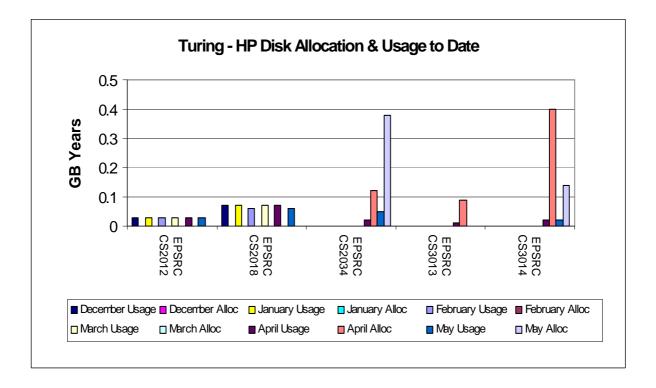
The above chart shows the most significant PE usage of the Turing system by class 2 and class 3 users.



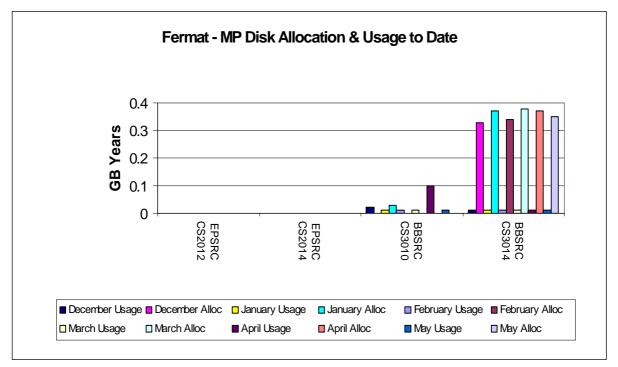
The above chart shows the CPU usage of the Fermat system by class 2 and class 3 users.



The above chart shows the CPU usage of Green by class 2 and class 3 users.



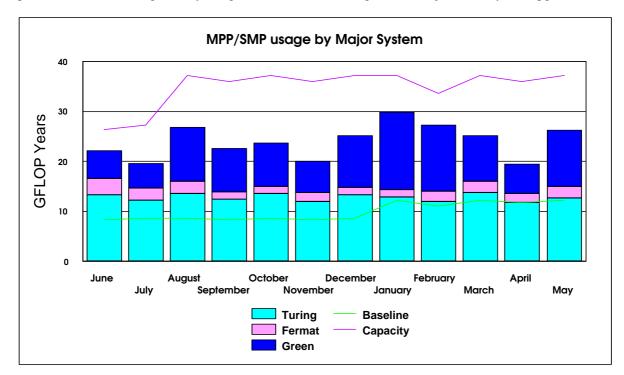
The above chart shows the most significant disk allocations on the Turing system for class 2 and class 3 users.



The above chart shows the most significant disk allocations on the Fermat system for class 2 and class 3 users. There is currently no HSM usage by class 2 and class 3 users.

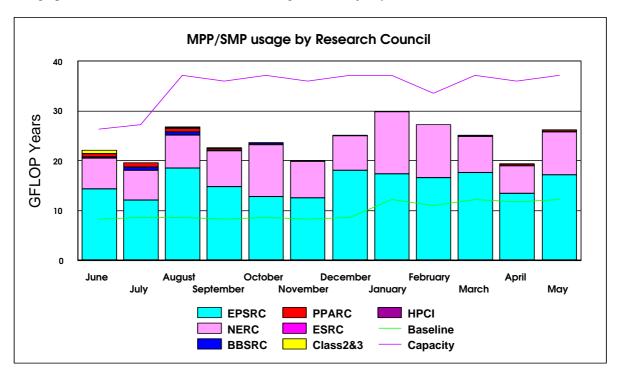
4.8 Charts of Historical Usage

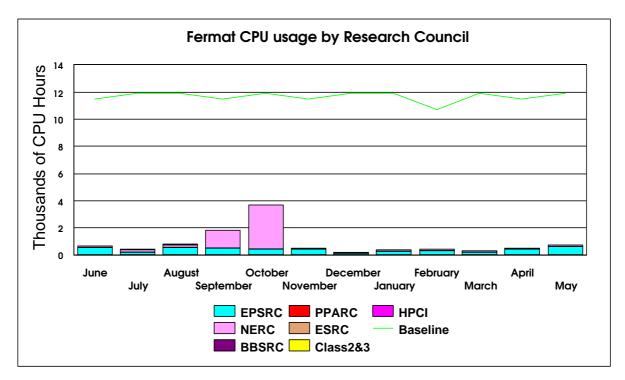
In all the Usage Charts, the baseline varies dependant on the number of days in each month, within a 365-day year.



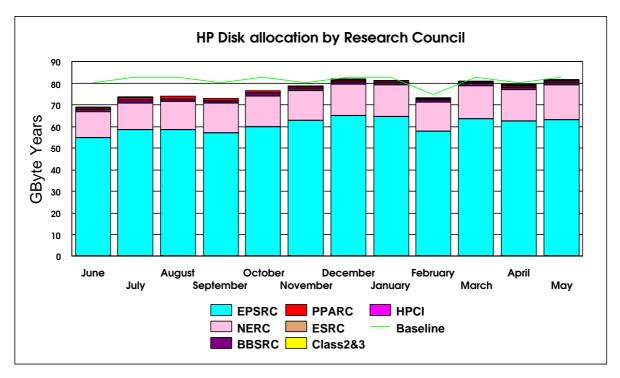
The graph below shows the GFLOP Year utilisation on Turing and Fermat by Research Council for the previous 12 months; usage in July being reduced due to the outage for the major Green system upgrade.

The graph below shows the historic SMP/MPP usage on the major systems.

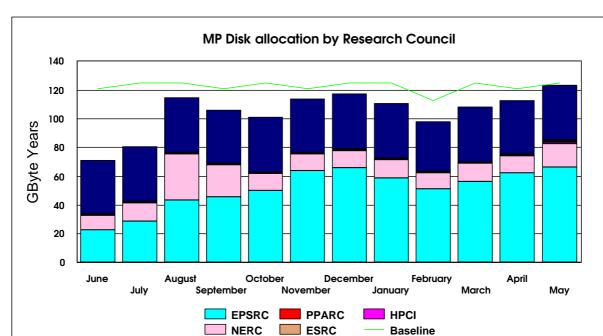




The above graph shows the historic interactive usage of the 'Baseline' Fermat system (equivalent to 16@250Mhz CPUs)



The next series of graphs illustrates the usage of the disk and HSM resources of the system.



Class2&3

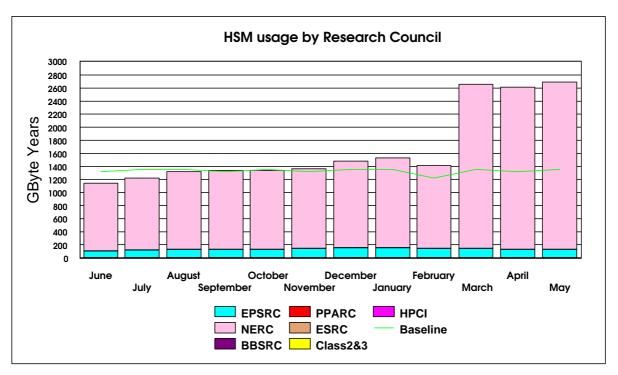
HSM Cache

The preceding graph illustrates the historic allocation of the High Performance Disk on Turing.

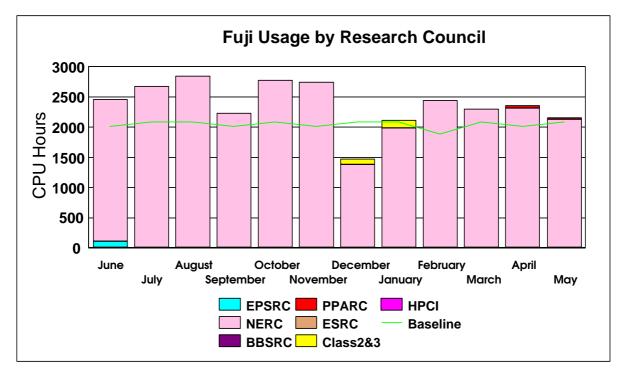
The graph above illustrates the historic allocation of the Medium Performance Disk on Fermat.

BBSRC

 The graph below shows the historic HSM usage by Research Council funded projects, now above Baseline. The primary usage is for NERC.



The next chart shows the historic usage of the Fuji system.



The Fujitsu system usage was above baseline this month.

4.8 Guest System Usage Charts

There is currently no Guest System usage.

5. Service Status, Issues and Plans

5.1 Status

The service was not fully utilised in May.

During the month, 78% of the jobs run on Turing were larger than 64 PEs in size, and 72% of the jobs run on Green were also larger than 64 PEs in size.

5.2 Issues

The migration of data from the Redwoods continues.

Green suffered minor hardware issues towards the latter end of the month, causing a series of brief outages.

5.3 Plans

The installation of the SAN is now underway. Periodic announcements will be made regarding progress. Plans are also underway to migrate from NQE, on the SGI machines, to LSF. Users will be kept informed as to the implementation date and the implication of this move if any.

6. Conclusion

May 2002 saw the overall CPARS rating at Green with the baseline being exceeded by 115%.

The largest proportion of the workload, on the major systems (Turing & Green), continues to be of the larger job sizes. The largest shift in this area was in the range of 128 and above, although the larger jobs were run on Turing.

Continued management attention will be given to maximise the throughput of the Service, whilst balancing as fairly as practicable the shares between Projects and jobs of the varying sizes.

Appendix 1 contains the accounts for May 2002

Appendix 2 contains the Percentage shares by Consortium for May 2002

Appendix 3 contains the Percentage shares by Research Council for May 2002

Appendix 4 contains the Training, Applications and Optimisation support figures to the end of May 2002

Appendix 5 contains a breakdown of resource usage by Consortia to the end of May 2002.

Appendix 6 contains a reference table of the Consortia name, the subject area and the PI name.

Appendix 1

The summary accounts for the month of May 2002 can be found at the URL below

http://www.csar.cfs.ac.uk/admin/accounts/summary.shtml

CfS

Issue 1.0 Appendix 2

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CSN036 0.00 CSN036 0.00 CSB001 0.00 CSB001 0.00 CSB002 0.16 CSB002 0.00	1
CSB001 0.00 CSB001 0.00 CSB002 0.16 CSB002 0.00	1
CS8002 0.16 CS8002 0.00	1
	1
	1
CS2018 0.00 CS2018 0.00	1
C\$2031 0.00 C\$2031 0.00	1
C\$2033 0.00 C\$2033 0.00	1
C\$2034 0.03 C\$2033 0.00	1
CS3001 0.00 CS3001 0.00	1
C\$3002 0.00 C\$3002 0.00	1
C33005 0.00 CS3005 0.00	1
CS3007 0.00 CS3007 0.00	1
Caston Ca	1
Costor Co	1
CGS012 0.00 CGS012 0.00	1
Coon1	1
Coso14 0.00 COSo14 0.02	1
	1

Consortia	<u>% Machine Time</u>
CSE002	14.89
CSE003	0.00
CSE030	2.84
CSE084	2.49
CSE086	7.24
CSE013	0.02
CSE053	0.00
CSE085	0.30
CSE009	8.45
CSE024	0.00
CSE066	0.01
CSE075	0.09
CSE076	24.32
CSN001	21.11
CSN003	5.72
CSN006	5.77
CSN015	6.71
CSN017	0.01
CS2030	0.00
CS2034	0.00
S3014	0.00

ercentage disc allocation by Consortia for Turing in May 2002		Percentage disc allocation	Appe
onsortia	%Allocation	Consortia	%Allocation
SE002	23.74	CSE002	8.28
SE003	3.71	CSE003	3.65
SE021	0.00	CSE021	0.00
E023	0.00	CSE023	0.00
E025	0.00	CSE025	0.00
E030	19.05	CSE030	38.03
055	0.11	CSE055	0.00
057	0.04	CSE057	0.00
E084	1.25	CSE084	1.33
086	4.21	CSE086	10.11
004		CSE004	
	0.00		0.00
013	1.22	CSE013	0.24
014	0.00	CSE014	0.00
016	0.05	CSE016	0.00
027	0.00	CSE027	0.00
E040	0.03	CSE040	0.47
5040		CSE040	
	0.05		0.11
043	0.05	CSE043	0.11
E052	0.31	CSE052	0.00
053	0.11	CSE053	0.11
056	0.00	CSE056	0.11
2063	1.04	CSE063	0.00
064	0.03	CSE064	0.00
E085	15.59	CSE085	11.13
E008	0.00	CSE008	0.00
E009	5.20	CSE009	2.02
024	0.00	CSE024	0.00
033	0.00	CSE033	0.00
035	0.73	CSE035	0.00
E019	0.00	CSE019	0.00
E020	0.00		0.00
		CSE020	
066	0.45	CSE066	0.79
075	0.07	CSE075	2.16
076	0.11	CSE076	0.55
034	0.00	CSE034	0.00
036	0.03	CSE036	0.01
I Southampton	0.00	HPCI Southampton	0.00
	0.11		
I Daresbury		HPCI Daresbury	0.05
Edinburgh	0.11	HPCI Edinburgh	0.11
EC	0.11	UKHEC	0.11
001	10.39	CSN001	13.91
003	3.01	CSN003	1.52
005	0.00	CSN005	0.00
006	5.20	CSN006	2.02
007	0.00	CSN007	0.00
010	0.00	CSN010	0.00
012	0.00	CSN012	0.00
015	0.15	CSN015	1.02
017	0.01	CSN017	0.11
036	0.83	CSN036	0.79
001			
	0.05	CSB001	0.00
002	1.35	CSB002	0.11
004	0.73	CSP004	0.50
018	0.00	CS2018	0.00
031	0.00	CS2031	0.05
034	0.51	C\$2034	0.00
001	0.00	CS3001	0.00
002	0.00	C\$3002	0.00
005	0.00	CS3005	0.00
010	0.00	CS3010	0.00
012	0.00	CS3012	0.00
	0.00	CS3013	0.07
3013			
3013 3014	0.19	CS3014	0.46

Percentage usage of	HSM by Consortium for May 2002
Consortium	% Usage
CSE002	0.39
CSE003	0.07
CSE030	1.55
CSE013	0.03
CSE027	0.00
CSE041	0.29
CSE043	0.00
CSE085	2.67
CSE024	0.00
CSE033	0.00
CSE035	0.02
CSN001	28.98
CSN003	58.21
CSN006	0.01
CSN015	4.25
CSN036	3.49

Issue 1.0 Appendix 3

Percentage PE usage	on Turing by Research Counci	for May 2002	Percentage CPU usa	cil for May 2002	
Research Council	<u>% Usage</u>		Research Council	<u>% Usage</u>	
EPSRC	65.93		EPSRC	93.37	
HPCI	0.00		HPCI	0.00	
NERC	31.62		NERC	6.60	
BBSRC	0.16		BBSRC	0.02	
ESRC	0.00		ESRC	0.00	
PPARC	2.25		PPARC	0.00	

Demonstration ODU		0
Percentage CPU usa	ge on Green by Research	Council for May 2002

Research Council	<u>% Usage</u>	
EPSRC	60.68	
HPCI	0.00	
NERC	39.32	
BBSRC	0.00	
ESRC	0.00	
PPARC	0.00	
1		

Percentage Disc alloc	cated on Turing by Research Co	uncil for May 2002	Percentage Disc allocated on Fermat by Research Council for May 2002					
Research Council	% Allocated		Research Council	% Allocated				
EPSRC	77.73		EPSRC	79.26				
HPCI	0.31		HPCI	0.25				
NERC	19.65		NERC	19.36				
BBSRC	1.60		BBSRC	0.57				
ESRC	0.00		ESRC	0.00				
PPARC	0.73		PPARC	0.50				

Percentage HSM usage by Research Council for May 2002										
Research Council	<u>% usage</u>									
EPSRC	5.02									
НРСІ	0									
NERC	94.94									
BBSRC	0									
ESRC	0									
PPARC	0									

The following tables show the training and support resource usage by the consortias in person days to the current month.

Code	PI	Subject	Liaison Officer	Support Bought	Application Support for May 2002	Total Application Support from July 2000	Optimisation Support for May 2002	Total Optimisation Support from July 2000	Total Support Used	Training Bought	Training Used
Cse002	Dr Phil Lindan	Support for the UKCP	Stephen Pickles	446.7		12.25			144.25	74	3
Cse003	Prof. Ken Taylor	HPC Consortiums 98- 2000	Martyn Foster	25.27		6		15.5	24.5	10	6
Cse004	Dr Neil Sandham	UK Turbulence	Keith Taylor							2	2
Cse006	Dr Patrick Briddon	Covalently Bonded Materials	Kevin Roy	4				4	4		
Cse007	Dr Matthew Foulkes	Quantum Many Body Theory	Martyn Foster	4					1	2	2
Cse008	Dr Mark Vincent (Hillier)	Model Chemical Reactivity	Robin Pinning								
Cse009	Dr Ben Slater (Catlow)	HPC in Materials Chemistry	Stephen Pickles	275.5		6		3	9	26.5	
Cse010	Dr John Williams	Free Surface Flows	Dan Kidger	15.95					15.95	0	
Cse011	Dr John Williams	Open Channel Flood Plains	Dan Kidger	2.18					2.18	1	
Cse013	Prof Michael Leschziner	Complex Engineering Flows	Keith Taylor	9						57.5	4
Cse014	Dr Cassiano de Oliverira (Goddard)	Probs in Nuclear Safety	Dan Kidger	3							
Cse016	Dr Stewart Cant	Turbulent Combustion	Keith Taylor								
Cse017	Dr Kai Luo	Large Eddy Simulation and Modelling of Buoyant Plumes and Smoke Spread in Enclosures	-	2.44						5	
Cse018	Dr Stewart Cant	Turbulent Flames	Keith Taylor								
Cse019	Dr Jason Lander (Berzins)	ROPA	Kevin Roy								
Cse020	Dr Marek Szularz	Symmetric Eigenproblem	Kevin Roy								
Cse021	Dr Julie Staunton	Magentisim	John Brooke	0.2						1.04	1
Cse022	Mr Niall Branley (Jones)	Turbulent Flames	Keith Taylor								
Cse023	Allen	Liquid Crystalline Materials	Robin Pinning								
Cse024	Dr Robert Allan (Tennyson)	ChemReact 98-2000	Ben Jesson	24						300	-
Cse025	Dr Niels Rene Walet(Bishop)	Nuclear Theory Progamme	Martyn Foster							2	1.5
Cse026	Dr Maureen Neal	Molecular Dynamics									
Cse027	Dr M Imregun	Excitation Mechanisims		-							
Cse028	Prof. P.W. Bearman	Bridge Design									
Cse029	Dr David	Validation of Turbulence Models	Keith Taylor								

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	(Leschziner)				1						
Cse030	Prof M Cates (VIPAR)	HPC for Complex Fluids	Robin Pinning	103		21		5	51	31	7
Cse033	Dr M Imregun	Turbomachinery core compressor		-							
Cse034	Dr Paul Durham	R&D of liner/non- linear systems	Kevin Roy								
Cse035	Dr Stephen Jenkins	Ab Initio Simulations									
Cse036	Prof Iain Duff	R&D of linear/non- linear systems									
Cse040	Dr Ken Badcock	-	Keith Taylor								
Cse041	Dr M Imregun	Flutter and Noise Generation	Keith Taylor	60						5	
Cse043	Dr J J R Williams	Numerical Simulation of flow over a rough bed	Kevin Roy	2				2	2	4	4
Cse051	Prof B. L. Gyorffy	Ab initio calculations of magnetic anisodropies in Fe	-	-						-	-
Cse052	Miss Francesca Di Mare (Heyes)	Heat Transfer in Gas Turbine Combustors	-	10						25	-
Cse053	Prof M. A. Leschziner	Coupling Rans Near-Wall Turbulence Models with Large Eddy Simulation Strategies	-	15						8	-
Cse055	Dr Julia Staunton	Ab-initio theory of magnetic antiotropy in transition metal ferromagnets	-	5						10	-
Cse056	Dr Mehmet Imregun	Aerothermoelasticity modelling of air riding seals for large gas turbines	-	5						10	-
Cse064	Dr Anne Dejoan									8	2
Cse066	Dr Keir Novik	Novel clay-polymer nanocomposites using diversity- discovery methods: synthesis, processing and testing	-	21						6	3
Cse076	Dr Patrick Briddon	Covalently bonded materials	Adrian Tate	20				11	11		
Cse085	Prof Neil Sandham									6	3
Csn001	Mrs Beverly de Cuevas (Webb)	HPCI Global Ocean Consortium	Dan Kidger	36.22		1	9	26	29	20	3
Csn002	Dr Mark Vincent (Hillier)	Pollutant Sorption on Mineral Surf	Robin Pinning								
Csn003	Dr Lois Steenman- Clark (O'Neill)	UGAMP	Dan Kidger							4	4
Csn005	Dr Huw Davies	Constraining Earth Mantle	Fumie Costen	27					27	6	6
Csn006	Dr John Brodholt (Price)	Density Functional Methods	Stephen Pickles								
Csn007	Dr John Brodholt (Price)	Density Functional Methods	Stephen Pickles								
Csn008	Hulton	Sub-Glacial Process	Michael Bane								
Csn009	Dr Roger Proctor		Michael Bane								
Csn010	Dr Jason	Flow over Complex terrain	Kevin Roy	2					-	5	-

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	(Mobbs)				1	1				
Csn011	Dr Ed Dicks (Thorpe)	Exchange of Polluted Air								
Csn012	Prof	fuji user	Ben Jesson							
	Tennyson									
Csn013	Dr L Steenman- Clark (Voke)	Large-Eddy Simulation Extended by Extreme Value Theory for the Prediction of Dispersion, Concentration Threshold Boundaries and Field Connectivity	-							
Csn014	Prof Llewellyn- Jones	A new Data Assimilation Scheme to optimise the information on the surface- atmosphere interface from satellite observations of Top- of-the Atmosphere Brightness Temperature	-	-					-	
Csn015	Dr Roger Proctor	Atlantic Margin Metocean Project	-	20		2		2	10	3
Csn017	Dr Antony Payne	Stability of the Antarctic Ice Sheet	-	16					18	2
Csn036	Prof Keith Haines	Assimilation of Altimeter, Radiometer and in situ data into the OCCAM Model. Analysis of water properties and transports.	-	2					5	-
Csb001	Dr David Houldershaw (Goodfellow)	Macromolecular Interactions	Robin/Fum ie	6		1.5		3.5	4	2
Csb002	Dr Adrian Mulholland (Danson)	Stability of Enzymes at high temp	Robin Pinning							
Csb003	Dr John Carling (Williams)	Anguilliform Swimming							3	-
Csp002	Dr Sandra Chapman	Nonlinear process in solar system and astrophysical plasmas	-	2					8	4
Csp003	Prof Andrew Lyne	Computing Resources for Precision timing of Millisecond Pulsars	Stephen Pickles	11.79		10		11	12	12
Csp004	Prof K L Bell	A Programme for Atomic Physics for Astrophysics at Queen's University, Belfast (2001 - 2005)		7					8	
Css001	Dr I J Turton	Human Systems Modelling	John Brooke						20	
Css002	Dr Robert Crouchley	Dropout in panel surveys	John Brooke						2.5	2
Hpcid	Dr Robert Allan		Keith Taylor						1	1
Hpcie	Dr David Henty		Stephen Pickles							
Hpcis	Dr Denis Nicole		Dan Kidger							
ukhec	Ms K Jaffri		-						2	2
Cs2001	Dr Sudhir Jain	3D Ising Spin Glass	Stephen Pickles						10	-
Cs2002	Dr Ingrid	Millisecond Pulsars	John	0.25				0.25	0	-

									Issue I
	Stairs (Lyne)		Brooke						
Cs2004	Dr A. Paul Watkins	Internal Combustion Engine	Keith Taylor						
Cs2006	Prof. Walter Temmerman	Superconductivity & Magmetisim	Mike Pettipher						
Cs2007	Choularton	Precipitation in the Mountains						1	1
Cs2008	Dr Matthew Genge	Extraterrestrial Mineral Surfaces	Robin Pinning	7.91			7.91		
Cs2009	Dr Roger Proctor	Atlantic Margin Metocean Project	Michael Bane						
Cs2010	Dr Christopher Dempsey	Helical membrane- lytic peptides							
Cs2011	Dr D Drikakis	Transition & Turbulence in Physiological Flows						-	
Cs2012	Prof Ning Qin	Monotone Integrated Large Eddy Simulation						1.5	1.5
Cs2014	Dr Vladimir Karlin	Dynamics of intrinsically unstable premixed flames						2	2
Cs2015	Mr Pablo Tejera-Cuesta	Nonlinear Methods in Aerodynamics	Keith Taylor					3	1.5
Cs2016	Dr Jim Miles	Investigation of Scaline Properties of Hierarchical Micromagnetic Models	-	2				-	-
Cs2017	Mr Markus Eisenbach	Ab initio calculations of magnetic anisotropies in Fe inclusions in Cu	-	-				-	-
Cs2018	Mr Maxim Chichkine	Study of defect clusters in silicon for sub-micron technologies	-	-				-	-
Cs2019	Dr Guy H Grant	Theoretical studies of flavoproteins	-	-				-	-
Cs2020	Prof John Barker	Predicting the applicability of Aquifer Storage Recovery (ASR) in the UK	-	1				-	-
Cs2021	Dr A R Mount	A Computational Study of the Luminescence of Substituted Indoles	-	-				6	1
Cs2022	Dr Philippa Browning	Numerical simulation of forced magnetic reconnection	-	-				3	2
Cs2023	Prof W Ewen Smith	The use of DFT methods for the accurate prediction of the Ramen spectrum of large molecules	-	-				-	-
Cs2024	Prof J G Doyle	Modelling of late- type stellar chromospheres	-	-				-	-
Cs2026	Dr R J Greenall	Molecular dynamics simlulations of AT- tract DNA	-	-				1	-
Cs2027	Dr Anthony Kay	Mathematical Model of the Circulation of Lake Baikal	-	6				4	-
Cs2028	Dr James F Annett	Numerical Tests of Disorder Effects in D-Wave Superconductors	-	2				2	-
Cs2029	Prof B L Gyorffy	Ab-initio calculations of unconventional electronic, magnetic and lattice properties of magnitudes	-	-				-	-
Cs2030	n 191	a i 1510a i i	-	-				1	1

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	Morgan	Magnetic Multilayers							
Cs3001	Mr John Andrew Staveley	Helical Coherent Structures		6.8			0	10.45	3
Cs3002	Dr Keir Novik	Simulations of DNA oligomers						2	2
Cs3003	Dr Eric Chambers	Band III peptide fragments							
Cs3004	Prof Nick Avis	Computational Steering and Interactive Virtual Environments	Jo Leng	19				12	1
Cs3005	Mr Behrouz Zarei	Simulation of Queuing Networks	John Brooke	10				5	3
Cs3006	Mr F Li	Quantifying Room Acoustic Quality	-	4				5	1
Cs3007	Emma Finch	Development ofa 3D Crustal Lattice Solid Model	-	37	7	5	12	5	-
Cs3008	Dr B J Alsberg	Development of a 3D QSAR method based on quantum topological descriptors	-	3			-	13	-
Cs3009	Dr D Flower	Epitope Prediction Methods based on molecular dynamics simulation	-	2			-	3	-
Cs3010	Dr K Kemsley	Investigation of electromyographic recordings of muscle activity during chewing, and of relationships with perceived flavour and texture, in model and real food systems	-	4			-	8	1
Cs3012	Prof Jim Austin	Evaluation of binary neural networks on a vector parallel processor	-	5		3	3	3	2
Cs3013	Prof Rasmita Raval	Structure and function of Chiral Bioarrays: A fundamental approach to proteomic devices	-	2			-	-	-
Cs3014	Dr John Brooke	Enabling UK Academic Grid Application Development and Testing	-	2			-	-	-
Cs3015	Dr Damian Hampshire	Flux-Pinning in High-Field Superconductors	-	2			-	5	-
Cs3016	Dr Owne Petchey	Functional Diversity for ecosystem processes	-	2			-	-	-

The following table shows resource utilisation by Consortia to the end of May 2002.

cs2034 De Souza Last Trade: Thu Apr 18 09:01:15 2002 Usage: 680.0 of 1264.9 PEHour MPP PE CPU (16.4 of 30.6 G.S.T), 53.8% 0.5 of 0.1 GByteYear HP Disk (4.2 of 0.9 G.S.T), 487.1% 0.0 of 0.1 Hour SMP CPU (0.0 of 0.0 G.S.T), 5.1% 0.0 of 4.8 GByteYear MP Disk (0.0 of 20.6 G.S.T), 0.0% 916.9 of 916.9 Hour Green CPU (47.9 of 47.9 G.S.T), 100.0% Total usage for project cs2034 68.5 of 100.0 Generic Service Tokens, 68.5%	
cs3015 Hampshire Last Trade: Wed May 8 10:52:22 2002 Usage: 0.0 of 2.0 GByteYear MP Disk (0.0 of 8.6 G.S.T), 0.0% 0.0 of 7301.1 Hour Green CPU (0.0 of 381.5 G.S.T), 0.0% 0.0 of 2.0 PersonDay Support (0.0 of 55.6 G.S.T), 0.0% 0.0 of 5.0 Day Training (0.0 of 53.8 G.S.T), 0.0% Total usage for project cs3015 0.0 of 499.4 Generic Service Tokens, 0.0%	
cs3016 Petchey Last Trade: Fri May 10 15:21:41 2002 Usage: 0.0 of 10020.1 Hour SMP CPU (0.0 of 389.3 G.S.T), 0.0% 0.0 of 0.5 GByteYear MP Disk (0.0 of 2.1 G.S.T), 0.0% 0.0 of 2.0 PersonDay Support (0.0 of 55.6 G.S.T), 0.0% Total usage for project cs3016 0.0 of 447.0 Generic Service Tokens, 0.0%	
csb001 27/B13508 Goodfellow Last Trade: re-enabled Usage: 148619.6 of 250989.4 PEHour MPP PE CPU (3593.4 of 6068.6 G.S.T), 59.2% 7.7 of 48.1 GByteYear HP Disk (59.9 of 372.5 G.S.T), 16.1% 0.4 of 1.2 Hour SMP CPU (0.0 of 0.0 G.S.T), 28.3% 6.1 of 13.7 GByteYear MP Disk (26.3 of 58.9 G.S.T), 44.7% 0.0 of 115.0 GByteYear HSM/Tape (0.0 of 71.7 G.S.T), 0.0% 2454.8 of 12444.9 Hour Green CPU (128.3 of 650.3 G.S.T), 19.7% 3.5 of 6.0 PersonDay Support (97.2 of 166.7 G.S.T), 58.3% 2.0 of 4.0 Day Training (21.5 of 43.2 G.S.T), 49.8% Total usage for project csb001 3926.7 of 7431.8 Generic Service Tokens, 52.8%	
csb002 86/B10059 Danson Last Trade: Wed Mar 13 14:05:19 2002 Usage: 85031.3 of 89670.6 PEHour MPP PE CPU (2055.9 of 2168.1 G.S.T), 94.8% 37.1 of 40.9 GByteYear HP Disk (287.3 of 316.5 G.S.T), 90.8% 0.0 of 0.0 Hour SMP CPU (0.0 of 0.0 G.S.T) 2.8 of 2.9 GByteYear MP Disk (12.0 of 12.3 G.S.T), 97.6% Total usage for project csb002 2355.3 of 2496.8 Generic Service Tokens, 94.3%	

CSE001 - Admin users Last Trade: Fri Oct 8 15:16:30 1999 Usage: 0.0 of 12.4 PEHour MPP PE CPU (0.0 of 0.3 G.S.T), 0.0% 0.1 of 0.1 GByteYear HP Disk (0.5 of 0.7 G.S.T), 66.6% Total usage for project cse001 0.5 of 1.0 Generic Service Tokens, 46.6% cse002 GR/N02337 Bird Last Trade: Wed May 15 09:38:35 2002 Usade: 2620961.2 of 3288375.1 PEHour MPP PE CPU (63371.5 of 79508.7 G.S.T), 79.7% 593.6 of 1322.0 GByteYear HP Disk (4595.9 of 10235.4 G.S.T), 44.9% 76110.0 of 99774.9 Hour SMP CPU (2957.0 of 3876.4 G.S.T), 76.3% 224.2 of 1222.0 GByteYear MP Disk (961.6 of 5242.0 G.S.T), 18.3% 285.7 of 414.5 GByteYear HSM/Tape (178.1 of 258.4 G.S.T), 68.9% 138552.2 of 200164.6 Hour Green CPU (7239.6 of 10459.0 G.S.T), 69.2% 144.2 of 152.8 PersonDay Support (4006.9 of 4243.1 G.S.T), 94.4% 3.0 of 9.0 Day Training (32.3 of 96.8 G.S.T), 33.3% Total usage for project cse002 83342.9 of 113919.7 Generic Service Tokens, 73.2% cse002 Daresbury Last Trade: never Usage: 347018.0 of 586480.0 PEHour MPP PE CPU (8390.4 of 14180.3 G.S.T), 59.2% 111.2 of 200.0 GByteYear HP Disk (861.1 of 1548.5 G.S.T), 55.6% 8422.9 of 8550.0 Hour SMP CPU (327.2 of 332.2 G.S.T), 98.5% 28.3 of 48.9 GByteYear MP Disk (121.6 of 209.8 G.S.T), 58.0% 66.8 of 106.0 GByteYear HSM/Tape (41.7 of 66.1 G.S.T), 63.0% 1947.7 of 2000.0 Hour Green CPU (101.8 of 104.5 G.S.T), 97.4% Total usage for subproject cse002a 9843.8 of 16441.3 Generic Service Tokens, 59.9% cse002 Belfast Last Trade: never Usage: 300479.0 of 343170.0 PEHour MPP PE CPU (7265.2 of 8297.4 G.S.T), 87.6% 65.3 of 75.0 GByteYear HP Disk (505.4 of 580.7 G.S.T), 87.0% 17642.8 of 20446.0 Hour SMP CPU (685.4 of 794.4 G.S.T), 86.3% 5.0 of 44.9 GByteYear MP Disk (21.6 of 192.6 G.S.T), 11.2% 0.0 of 3.0 GByteYear HSM/Tape (0.0 of 1.8 G.S.T), 0.0% Total usage for subproject cse002b 8477.6 of 9866.9 Generic Service Tokens, 85.9% cse002 Cambridge - Matsci Last Trade: never Usage: 292892.6 of 331396.0 PEHour MPP PE CPU (7081.8 of 8012.7 G.S.T), 88.4% 41.9 of 54.4 GByteYear HP Disk (324.1 of 421.2 G.S.T), 77.0% 0.0 of 2500.0 Hour SMP CPU (0.0 of 97.1 G.S.T), 0.0% 20.5 of 50.4 GByteYear MP Disk (88.0 of 216.2 G.S.T), 40.7% 8.8 of 52.0 GByteYear HSM/Tape (5.5 of 32.4 G.S.T), 17.0% Total usage for subproject cse002c 7499.4 of 8779.6 Generic Service Tokens, 85.4%

cse002 Cambridge - Physics Last Trade: never Usage: 66865.0 of 93085.0 PEHour MPP PE CPU (1616.7 of 2250.7 G.S.T), 71.8% 7.5 of 26.7 GByteYear HP Disk (58.1 of 206.7 G.S.T), 28.1% 7425.5 of 10919.0 Hour SMP CPU (288.5 of 424.2 G.S.T), 68.0% 12.8 of 27.7 GByteYear MP Disk (55.0 of 118.8 G.S.T), 46.3% 0.0 of 27.0 GByteYear HSM/Tape (0.0 of 16.8 G.S.T), 0.0% 0.0 of 0.5 Hour Green CPU (0.0 of 0.0 G.S.T), 0.0% Total usage for subproject cse002d 2018.4 of 3017.3 Generic Service Tokens, 66.9%
cse002 Bath Last Trade: never Usage: 455233.5 of 462619.0 PEHour MPP PE CPU (11007.0 of 11185.5 G.S.T), 98.4% 116.9 of 145.0 GByteYear HP Disk (905.3 of 1122.6 G.S.T), 80.6% 0.0 of 2500.0 Hour SMP CPU (0.0 of 97.1 G.S.T), 0.0% 28.2 of 50.5 GByteYear MP Disk (120.9 of 216.6 G.S.T), 55.8% 70.9 of 75.0 GByteYear HSM/Tape (44.2 of 46.8 G.S.T), 94.5% Total usage for subproject cse002e 12077.4 of 12668.7 Generic Service Tokens, 95.3%
cse002 UCL Last Trade: never Usage: 84029.4 of 229733.0 PEHour MPP PE CPU (2031.7 of 5554.6 G.S.T), 36.6% 21.0 of 59.1 GByteYear HP Disk (162.9 of 457.6 G.S.T), 35.6% 2671.3 of 3450.0 Hour SMP CPU (103.8 of 134.0 G.S.T), 77.4% 19.7 of 54.6 GByteYear MP Disk (84.6 of 234.2 G.S.T), 36.1% 0.0 of 3.3 GByteYear HSM/Tape (0.0 of 2.0 G.S.T), 0.0% 32187.3 of 29998.0 Hour Green CPU (1681.9 of 1567.5 G.S.T), 107.3% Total usage for subproject cse002f 4065.0 of 7950.0 Generic Service Tokens, 51.1%
cse002 Oxford - pcl Last Trade: never Usage: 119644.0 of 157112.0 PEHour MPP PE CPU (2892.8 of 3798.8 G.S.T), 76.2% 9.1 of 32.8 GByteYear HP Disk (70.5 of 253.9 G.S.T), 27.8% 1472.2 of 1875.0 Hour SMP CPU (57.2 of 72.8 G.S.T), 78.5% 18.4 of 30.8 GByteYear MP Disk (79.1 of 132.1 G.S.T), 59.9% 0.0 of 2.2 GByteYear HSM/Tape (0.0 of 1.4 G.S.T), 0.0% 4576.3 of 16195.0 Hour Green CPU (239.1 of 846.2 G.S.T), 28.3% Total usage for subproject cse002g 3338.8 of 5105.3 Generic Service Tokens, 65.4%
cse002 Edinburgh Last Trade: never Usage: 312282.8 of 304793.0 PEHour MPP PE CPU (7550.6 of 7369.5 G.S.T), 102.5% 36.9 of 51.0 GByteYear HP Disk (285.5 of 394.9 G.S.T), 72.3% 0.0 of 2800.0 Hour SMP CPU (0.0 of 108.8 G.S.T), 0.0% 10.7 of 46.5 GByteYear MP Disk (45.9 of 199.5 G.S.T), 23.0% 0.0 of 2.8 GByteYear HSM/Tape (0.0 of 1.8 G.S.T), 0.0% Total usage for subproject cse002i 7881.9 of 8074.4 Generic Service Tokens, 97.6%

cse002 Kent (UKC) Last Trade: never Usage: 221395.2 of 219888.0 PEHour MPP PE CPU (5353.1 of 5316.6 G.S.T), 100.7% 60.1 of 100.0 GByteYear HP Disk (465.7 of 774.2 G.S.T), 60.1% 0.0 of 2350.0 Hour SMP CPU (0.0 of 91.3 G.S.T), 0.0% 9.1 of 33.6 GByteYear MP Disk (39.1 of 144.1 G.S.T), 27.2% 18.8 of 100.0 GByteYear HSM/Tape (11.7 of 62.3 G.S.T), 18.8% 75663.0 of 127604.0 Hour Green CPU (3953.5 of 6667.6 G.S.T), 59.3% Total usage for subproject cse002j 9823.1 of 13056.2 Generic Service Tokens, 75.2%
cse002 Durham Last Trade: never Usage: 50680.3 of 90000.0 PEHour MPP PE CPU (1225.4 of 2176.1 G.S.T), 56.3% 12.9 of 45.0 GByteYear HP Disk (99.6 of 348.4 G.S.T), 28.6% 0.0 of 3000.0 Hour SMP CPU (0.0 of 116.6 G.S.T), 0.0% 8.1 of 45.0 GByteYear MP Disk (34.7 of 193.0 G.S.T), 18.0% Total usage for subproject cse002k 1359.6 of 2834.1 Generic Service Tokens, 48.0%
cse002 York Last Trade: never Usage: 0.0 of 50000.0 PEHour MPP PE CPU (0.0 of 1208.9 G.S.T), 0.0% 1.6 of 5.0 GByteYear HP Disk (12.3 of 38.7 G.S.T), 31.9% 0.0 of 2500.0 Hour SMP CPU (0.0 of 97.1 G.S.T), 0.0% 12.8 of 30.0 GByteYear MP Disk (54.9 of 128.7 G.S.T), 42.7% Total usage for subproject cse002l 67.3 of 1473.5 Generic Service Tokens, 4.6%
cse009 GR/20607 Catlow Last Trade: re-enabled Usage: 1250642.7 of 1846749.2 PEHour MPP PE CPU (30238.9 of 44652.0 G.S.T), 67.7% 154.4 of 712.2 GByteYear HP Disk (1195.7 of 5514.0 G.S.T), 21.7% 23595.1 of 49491.7 Hour SMP CPU (916.7 of 1922.8 G.S.T), 47.7% 17.6 of 646.7 GByteYear MP Disk (75.5 of 2774.2 G.S.T), 2.7% 0.0 of 714.9 GByteYear MSM/Tape (0.0 of 445.7 G.S.T), 0.0% 67300.9 of 191719.6 Hour Green CPU (3516.6 of 10017.7 G.S.T), 35.1% 9.0 of 25.5 PersonDay Support (250.0 of 708.3 G.S.T), 35.3% 0.0 of 10.0 Day Training (0.0 of 107.5 G.S.T), 0.0% Total usage for project cse009 36193.4 of 66142.4 Generic Service Tokens, 54.7%
cse013 GR/M50539 Leschziner Last Trade: re-enabled Usage: 1123727.0 of 4737760.0 PEHour MPP PE CPU (27170.3 of 114553.0 G.S.T), 23.7% 25.6 of 195.8 GByteYear HP Disk (198.2 of 1516.3 G.S.T), 13.1% 13296.3 of 29364.5 Hour SMP CPU (516.6 of 1140.9 G.S.T), 45.3% 10.3 of 308.0 GByteYear MP Disk (44.3 of 1321.2 G.S.T), 3.4% 24.3 of 504.0 GByteYear HSM/Tape (15.1 of 314.2 G.S.T), 4.8% 6589.4 of 27763.9 Hour Green CPU (344.3 of 1450.7 G.S.T), 23.7% 0.0 of 9.0 PersonDay Support (0.0 of 250.0 G.S.T), 0.0%

ese013 - ICL .ast Trade: never Jsage: 65387.2 of 70000.0 PEHour MPP PE CPU (1581.0 of 1692.5 G.S.T), 93.4% 1.2 of 2.0 GByteYear HP Disk (8.9 of 15.5 G.S.T), 57.6% 359 8 of 500 0 Hour SMP CPU (14.0 of 19.4 G.S.T), 72.0%
Jsage: 65387.2 of 70000.0 PEHour MPP PE CPU (1581.0 of 1692.5 G.S.T), 93.4% 1.2 of 2.0 GByteYear HP Disk (8.9 of 15.5 G.S.T), 57.6%
65387.2 of 70000.0 PEHour MPP PE CPU (1581.0 of 1692.5 G.S.T), 93.4% 1.2 of 2.0 GByteYear HP Disk (8.9 of 15.5 G.S.T), 57.6%
1.2 of 2.0 GByteYear HP Disk (8.9 of 15.5 G.S.T), 57.6%
359.8 of 500.0 Hour SMP CPU (14.0 of 19.4 G.S.T), 72.0%
0.1 of 5.0 GByteYear MP Disk (0.4 of 21.4 G.S.T), 1.7%
0.0 of 2.0 GByteYear HSM/Tape (0.0 of 1.2 G.S.T), 0.0%
otal usage for subproject cse013a 1604.2 of 1750.1 Generic Service Tokens, 91.7%
se013 - Loughborough
.ast Trade: never Jsage:
503692.5 of 600000.0 PEHour MPP PE CPU (12178.6 of 14507.2 G.S.T), 83.9%
5.5 of 8.0 GByteYear HP Disk (42.8 of 61.9 G.S.T), 69.1%
7445.9 of 8000.0 Hour SMP CPU (289.3 of 310.8 G.S.T), 93.1%
1.7 of 15.0 GByteYear MP Disk (7.3 of 64.3 G.S.T), 11.4%
0.0 of 5.0 GByteYear HSM/Tape (0.0 of 3.1 G.S.T), 0.0%
31.2 of 1000.0 Hour Green CPU (1.6 of 52.3 G.S.T), 3.1%
otal usage for subproject cse013b 12519.7 of 14999.7 Generic Service Tokens, 83.5%
se013 - Surrey .ast Trade: never Jsage:
39618.8 of 80000.0 PEHour MPP PE CPU (957.9 of 1934.3 G.S.T), 49.5%
4.7 of 8.0 GByteYear HP Disk (36.5 of 61.9 G.S.T), 58.9%
13.1 of 1800.0 Hour SMP CPU (0.5 of 69.9 G.S.T), 0.7%
0.8 of 15.0 GByteYear MP Disk (3.3 of 64.3 G.S.T), 5.1%
0.0 of 5.0 GByteYear HSM/Tape (0.0 of 3.1 G.S.T), 0.0%
0.1 of 1000.0 Hour Green CPU (0.0 of 52.3 G.S.T), 0.0%
otal usage for subproject cse013c 998.2 of 2185.9 Generic Service Tokens, 45.7%
se013 - QMW
ast Trade: never
Jsage:
515028.4 of 600000.0 PEHour MPP PE CPU (12452.7 of 14507.2 G.S.T), 85.8%
8.4 of 10.0 GByteYear HP Disk (64.9 of 77.4 G.S.T), 83.8%
1144.0 of 1800.0 Hour SMP CPU (44.4 of 69.9 G.S.T), 63.6%
2.6 of 15.0 GByteYear MP Disk (11.2 of 64.3 G.S.T), 17.4%
24.3 of 30.0 GByteYear HSM/Tape (15.1 of 18.7 G.S.T), 80.9%
otal usage for subproject cse013d 12588.4 of 14737.6 Generic Service Tokens, 85.4%
se030 GR/M56234 Cates
ast Trade: Tue May 7 19:37:11 2002
Jsage:
261027.8 of 320712.8 PEHour MPP PE CPU (6311.3 of 7754.4 G.S.T), 81.4%
352.6 of 490.2 GByteYear HP Disk (2730.0 of 3795.4 G.S.T), 71.9%
12517.3 of 27563.1 Hour SMP CPU (486.3 of 1070.9 G.S.T), 45.4%
411.3 of 682.7 GByteYear MP Disk (1764.4 of 2928.6 G.S.T), 60.2%
492.1 of 636.2 GByteYear HSM/Tape (306.8 of 396.6 G.S.T), 77.4%
24874.0 of 88851.1 Hour Green CPU (1299.7 of 4642.7 G.S.T), 28.0%

51.0 of 66.0 PersonDay Support (1416.7 of 1833.3 G.S.T), 77.3% 7.0 of 9.0 Day Training (75.3 of 96.8 G.S.T), 77.8% Total usage for project cse030 14390.4 of 22518.7 Generic Service Tokens, 63.9%
Total usage for project cseuso 14330.4 of 22318.7 Generic Service Tokens, 03.3 %
cse030 Edinburgh
Last Trade: never
Usage:
69049.9 of 97480.0 PEHour MPP PE CPU (1669.5 of 2356.9 G.S.T), 70.8%
177.1 of 230.0 GByteYear HP Disk (1371.1 of 1780.7 G.S.T), 77.0%
2920.1 of 6000.0 Hour SMP CPU (113.5 of 233.1 G.S.T), 48.7%
82.8 of 120.0 GByteYear MP Disk (355.1 of 514.8 G.S.T), 69.0% 345.2 of 382.9 GByteYear HSM/Tape (215.2 of 238.7 G.S.T), 90.1%
0.0 of 20000.0 Hour Green CPU (0.0 of 1045.0 G.S.T), 0.0%
Total usage for subproject cse030a 3724.5 of 6169.3 Generic Service Tokens, 60.4%
cse030 QMW
Last Trade: never
Usage:
171225.5 of 191480.0 PEHour MPP PE CPU (4140.0 of 4629.7 G.S.T), 89.4%
153.6 of 215.0 GByteYear HP Disk (1189.4 of 1664.6 G.S.T), 71.5% 917.6 of 8700.0 Hour SMP CPU (35.6 of 338.0 G.S.T), 10.5%
306.5 of 486.0 GByteYear MP Disk (1314.7 of 2084.8 G.S.T), 63.1%
99.7 of 206.0 GByteYear HSM/Tape (62.2 of 128.4 G.S.T), 48.4%
0.0 of 32000.0 Hour Green CPU (0.0 of 1672.1 G.S.T), 0.0%
Total usage for subproject cse030b 6742.0 of 10517.6 Generic Service Tokens, 64.1%
cse030 Oxford
Last Trade: never
Usage: 18310.7 of 18310.7 PEHour MPP PE CPU (442.7 of 442.7 G.S.T), 100.0%
1.1 of 5.0 GByteYear HP Disk (8.6 of 38.7 G.S.T), 22.2%
0.0 of 1000.0 Hour SMP CPU (0.0 of 38.9 G.S.T), 0.0%
6.0 of 15.0 GByteYear MP Disk (25.7 of 64.3 G.S.T), 39.9%
0.0 of 0.0 GByteYear HSM/Tape (0.0 of 0.0 G.S.T)
0.0 of 5000.0 Hour Green CPU (0.0 of 261.3 G.S.T), 0.0%
Total usage for subproject cse030c 477.0 of 845.9 Generic Service Tokens, 56.4%
cse030 Bristol
Last Trade: never
Usage:
0.0 of 1000.0 PEHour MPP PE CPU (0.0 of 24.2 G.S.T), 0.0%
10.1 of 12.0 GByteYear HP Disk (77.9 of 92.9 G.S.T), 83.8%
0.0 of 500.0 Hour SMP CPU (0.0 of 19.4 G.S.T), 0.0%
11.2 of 20.0 GByteYear MP Disk (47.9 of 85.8 G.S.T), 55.8%
0.0 of 0.0 GByteYear HSM/Tape (0.0 of 0.0 G.S.T)
Total usage for subproject cse030d 125.8 of 222.3 Generic Service Tokens, 56.6%
cse030 Leeds
Last Trade: never
Usage:
0.0 of 0.0 PEHour MPP PE CPU (0.0 of 0.0 G.S.T)
0.0 of 0.0 GByteYear HP Disk (0.0 of 0.0 G.S.T)
0.0 of 0.0 Hour SMP CPU (0.0 of 0.0 G.S.T)
0.0 of 0.0 GByteYear MP Disk (0.0 of 0.0 G.S.T)

0.0 010.0 GByteYear HSM/Tape (0.0 of 0.0 G.S.T) Total usage for subproject cse030e 0.0 of 0.0 Generic Service Tokens, 0.0% cse030 Cambridge Last Trade: never Usage: 0.0 of 0.0 PEHour MPP PE CPU (0.0 of 0.0 G.S.T) 0.0 of 0.0 OByteYear HP Disk (0.0 of 0.0 G.S.T) 0.0 of 0.0 Hour SMP CPU (0.0 of 3.8 G.S.T), 0.0% 0.0 of 0.0 GByteYear HP Disk (0.0 of 0.0 G.S.T) 0.0 of 1.0 GByteYear HSM/Tape (0.0 of 0.0 G.S.T) 0.0 of 5000.0 Hour Green CPU (0.0 of 241.3 G.S.T), 0.0% 0.0 of 5000.0 Hour Green CPU (0.0 of 241.3 G.S.T), 0.0% 0.0 of 10000.0 PEHour MPP PE CPU (0.0 of 241.8 G.S.T), 0.0% 0.0 of 10000.0 PEHour MPP PE CPU (0.0 of 241.8 G.S.T), 0.0% 0.0 of 10000.0 Hour SMP CPU (0.0 of 64.3 G.S.T), 0.0% 0.0 of 15.0 GByteYear HP Disk (0.0 of 0.0 G.S.T) 0.0 of 15.0 GByteYear MP Disk (0.0 of 0.0 G.S.T) 0.0 of 15.0 GByteYear MP Disk (0.0 of 0.0 G.S.T) 0.0 of 15.0 GByteYear MP Disk (0.0 of 0.0 G.S.T) 0.0 of 15.0 GByteYear MP Disk (0.0 of 0.0 G.S.T) 0.0 of 0.0 GByteYear MP Disk (0.0 of 0.0 G.S.T) 0.0 of 0.0 GByteYear MP Disk (0.0 of 0.0 G.S.T) 0.0 of 0.0 GByteYear MP Disk (0.0 of 0.0 G.S.T) 0.0 of 0.0 GByteYear MP Disk (0.0 of 0.0 G.S.T) 0.0 of 0.0 GByteYear MP Disk	
Last Trade: never Usage: 0. of 0.0 PEHour MPP PE CPU (0.0 of 0.0 G.S.T) 0. of 0.0 GPUetVear HP Disk (0.0 of 0.0 G.S.T) 0. of 10.0 Hour SMP CPU (0.0 of 38.0 G.S.T), 0.0% 0. of 0.0 GByteYear MP Disk (0.0 of 34.3 G.S.T), 0.0% 10. of 5000.0 Hour Green CPU (0.0 of 21.3 G.S.T), 0.0% Total usage for subproject cse030f 0.0 of 334.4 Generic Service Tokens, 0.0% Cse030 Sheffield Hallam Last Trade: never Usage: 0. of 10000.0 PEHour MPP PE CPU (0.0 of 241.8 G.S.T), 0.0% 0. of 10000.0 PEHour MPP PE CPU (0.0 of 241.8 G.S.T), 0.0% 0. of 15.0 GByteYear MP Disk (0.0 of 98.8 G.S.T), 0.0% 0. of 15.0 GByteYear MP Disk (0.0 of 64.3 G.S.T), 0.0% 0. of 15.0 GByteYear MP Disk (0.0 of 64.3 G.S.T), 0.0% 1. of 68000.0 Hour Green CPU (0.0 of 241.8 G.S.T), 0.0% 1. of 68000.0 Hour Green CPU (0.0 of 241.8 G.S.T), 0.0% 1. of 68000.0 Hour Green CPU (0.0 of 241.8 G.S.T), 0.0% 1. of 68000.0 Hour Green CPU (0.0 of 241.8 G.S.T), 0.0% 1. of 68000.0 Hour Green CPU (0.0 of 48.0 G.S.T), 0.0% 1. of 68000.0 Hour Green CPU (0.0 of 48.0 G.S.T), 0.0% 1. of 68000.0 Hour Green CPU (0.0 of 48.0 G.S.T), 0.0% 1. of 68000.0 Hour Green CPU (0.0 of 480.9 Generic Service Tokens, 0.0% 1. of 0.1 Hour SPM CPU (0.0 of 0.0 G.S.T), 80.% 0. of 0.6 GByteYear HP Disk (0.0 of 2.4 G.S.T), 92.8% 0. of 0.6 GByteYear MP Disk (0.0 of 2.4 G.S.T), 92.8% 0. of 0.6 GByteYear MP Disk (0.0 of 2.4 G.S.T), 92.8% 1. of 2.6 0 GByteYear MP Disk (1.0 of 2.4 G.S.T), 50.7% 1. Total usage for project cse035 10172.5 of 10450.6 Generic Service Tokens, 97.3% 1. 2 of 617.1 PEHour MPP PE CPU (0.3 of 14.9 G.S.T), 1.8% 0. of 3.0 GByteYear HP Disk (1.1 of 12.9 G.S.T), 1.8% 0. of 3.0 GByteYear HP Disk (1.1 of 12.9 G.S.T), 1.8% 0. of 3.0 GByteYear HP Disk (1.1 of 12.9 G.S.T), 1.8% 0. of 3.0 GByteYear HP Disk (1.1 of 12.9 G.S.T), 0.0% 0. of 6.0 GByteYear HP Disk (2.0 of 6.5 G.S.T), 0.0% 0. of 6.0 GByteYear HP Disk (2.0 of 6.5 G.S.T), 0.3% 0. of 6.0 GByteYear HP Disk (1.7 of 23.3 G.S.T), 0.0% 0. of 6.0 GByteYear HP Disk (1.7 of 23.9 G.S.T), 0.0%	
Last Trade: never Usage: 0.0 of 10000.0 PEHour MPP PE CPU (0.0 of 241.8 G.S.T), 0.0% 0.0 of 12.5 GByteYear HP Disk (0.0 of 96.8 G.S.T), 0.0% 0.0 of 15.0 GByteYear MP Disk (0.0 of 64.3 G.S.T), 0.0% 0.0 of 15.0 GByteYear MSWTape (0.0 of 0.0 G.S.T) 0.0 of 8000.0 Hour Green CPU (0.0 of 418.0 G.S.T), 0.0% Total usage for subproject cse030g 0.0 of 890.9 Generic Service Tokens, 0.0% Total usage for subproject cse030g 0.0 of 890.9 Generic Service Tokens, 0.0% Cse035 GR/M76720 King Last Trade: Fri Feb 2 16:20:49 2001 Usage: 415031.9 of 425689.3 PEHour MPP PE CPU (10034.9 of 10292.6 G.S.T), 97.5% 16.7 of 18.0 GByteYear HP Disk (129.3 of 139.4 G.S.T), 92.8% 0.0 of 0.3 Hour SMP CPU (0.0 of 0.0 G.S.T), 6.0% 0.0 of 0.6 GByteYear MP Disk (0.0 of 2.4 G.S.T), 2.0% 13.2 of 26.0 GByteYear MSMTape (8.2 of 16.2 G.S.T), 50.7% Total usage for project cse035 10172.5 of 10450.6 Generic Service Tokens, 97.3% Cse036 GR/M78502 Duff Last Trade: re-enabled Usage: 11.2 of 617.1 PEHour MPP PE CPU (0.3 of 14.9 G.S.T), 1.8% 0.5 of 3.0 GByteYear MP Disk (1.3 of 12.9 G.S.T), 10.3% Total usage for project cse036 8.9 of 66.6 Generic Service Tokens, 13.4% Cse040 GR/M84350 Badcock Last Trade: re-enabled Usage: 0.3 of 500.0 PEHour MPP PE CPU (0.0 of 120.9 G.S.T), 0.0% 0.0 of 0.6 GByteYear MP Disk (1.7 of 29.3 G.S.T), 0.0% 0.0 of 0.2 FPersonDay Support (0.0 of 8.2 G.S.T), 0.0%	Last Trade: never Usage: 0.0 of 0.0 PEHour MPP PE CPU (0.0 of 0.0 G.S.T) 0.0 of 0.0 GByteYear HP Disk (0.0 of 0.0 G.S.T) 0.0 of 1000.0 Hour SMP CPU (0.0 of 38.9 G.S.T), 0.0% 0.0 of 8.0 GByteYear MP Disk (0.0 of 34.3 G.S.T), 0.0% 0.0 of 0.0 GByteYear HSM/Tape (0.0 of 0.0 G.S.T) 0.0 of 5000.0 Hour Green CPU (0.0 of 261.3 G.S.T), 0.0%
Last Trade: Fri Feb 2 16:20:49 2001 Usage: 415031.9 of 425689.3 PEHour MPP PE CPU (10034.9 of 10292.6 G.S.T), 97.5% 16.7 of 18.0 GByteYear HP Disk (129.3 of 139.4 G.S.T), 92.8% 0.0 of 0.3 Hour SMP CPU (0.0 of 0.0 G.S.T), 6.0% 0.0 of 0.6 GByteYear MP Disk (0.0 of 2.4 G.S.T), 20.0% 13.2 of 26.0 GByteYear HSM/Tape (8.2 of 16.2 G.S.T), 50.7% Total usage for project cse035 10172.5 of 10450.6 Generic Service Tokens, 97.3% 	Last Trade: never Usage: 0.0 of 10000.0 PEHour MPP PE CPU (0.0 of 241.8 G.S.T), 0.0% 0.0 of 12.5 GByteYear HP Disk (0.0 of 96.8 G.S.T), 0.0% 0.0 of 1800.0 Hour SMP CPU (0.0 of 69.9 G.S.T), 0.0% 0.0 of 15.0 GByteYear MP Disk (0.0 of 64.3 G.S.T), 0.0% 0.0 of 0.0 GByteYear HSM/Tape (0.0 of 0.0 G.S.T) 0.0 of 8000.0 Hour Green CPU (0.0 of 418.0 G.S.T), 0.0%
Last Trade: re-enabled Usage: 11.2 of 617.1 PEHour MPP PE CPU (0.3 of 14.9 G.S.T), 1.8% 0.5 of 3.0 GByteYear HP Disk (4.1 of 23.2 G.S.T), 17.5% 84.4 of 399.9 Hour SMP CPU (3.3 of 15.5 G.S.T), 21.1% 0.3 of 3.0 GByteYear MP Disk (1.3 of 12.9 G.S.T), 10.3% Total usage for project cse036 8.9 of 66.6 Generic Service Tokens, 13.4% 	Last Trade: Fri Feb 2 16:20:49 2001 Usage: 415031.9 of 425689.3 PEHour MPP PE CPU (10034.9 of 10292.6 G.S.T), 97.5% 16.7 of 18.0 GByteYear HP Disk (129.3 of 139.4 G.S.T), 92.8% 0.0 of 0.3 Hour SMP CPU (0.0 of 0.0 G.S.T), 6.0% 0.0 of 0.6 GByteYear MP Disk (0.0 of 2.4 G.S.T), 2.0% 13.2 of 26.0 GByteYear HSM/Tape (8.2 of 16.2 G.S.T), 50.7%
Last Trade: re-enabled Usage: 0.3 of 5000.0 PEHour MPP PE CPU (0.0 of 120.9 G.S.T), 0.0% 0.0 of 6.0 GByteYear HP Disk (0.2 of 46.5 G.S.T), 0.3% 0.4 of 6.8 GByteYear MP Disk (1.7 of 29.3 G.S.T), 5.8% 0.0 of 2.5 PersonDay Support (0.0 of 68.2 G.S.T), 0.0%	Last Trade: re-enabled Usage: 11.2 of 617.1 PEHour MPP PE CPU (0.3 of 14.9 G.S.T), 1.8% 0.5 of 3.0 GByteYear HP Disk (4.1 of 23.2 G.S.T), 17.5% 84.4 of 399.9 Hour SMP CPU (3.3 of 15.5 G.S.T), 21.1% 0.3 of 3.0 GByteYear MP Disk (1.3 of 12.9 G.S.T), 10.3%
	Last Trade: re-enabled Usage: 0.3 of 5000.0 PEHour MPP PE CPU (0.0 of 120.9 G.S.T), 0.0% 0.0 of 6.0 GByteYear HP Disk (0.2 of 46.5 G.S.T), 0.3% 0.4 of 6.8 GByteYear MP Disk (1.7 of 29.3 G.S.T), 5.8% 0.0 of 2.5 PersonDay Support (0.0 of 68.2 G.S.T), 0.0%

Total usage for project cse040 1.9 of 333.0 Generic Service Tokens, 0.6%

cse041 GR/M84879 Imregun Last Trade: re-enabled Usage: 588.6 of 12981.4 PEHour MPP PE CPU (14.2 of 313.9 G.S.T), 4.5% 1.0 of 119.7 GByteYear HP Disk (7.4 of 926.6 G.S.T), 0.8% 1176.4 of 4531.4 Hour SMP CPU (45.7 of 176.1 G.S.T), 26.0% 0.5 of 123.5 GByteYear MP Disk (2.2 of 529.6 G.S.T), 0.4% 59.5 of 230.3 GByteYear HSM/Tape (37.1 of 143.6 G.S.T), 25.8% 0.0 of 60.0 PersonDay Support (0.0 of 1666.7 G.S.T), 0.0% 0.0 of 5.0 Day Training (0.0 of 53.8 G.S.T), 0.0% Total usage for project cse041 106.6 of 3810.1 Generic Service Tokens, 2.8% cse043 GR/M85241 Williams Last Trade: Thu Oct 18 15:49:55 2001 Usage: 51915.0 of 149987.2 PEHour MPP PE CPU (1255.2 of 3626.5 G.S.T), 34.6% 1.2 of 10.0 GByteYear HP Disk (9.6 of 77.4 G.S.T), 12.4% 0.0 of 6.2 Hour SMP CPU (0.0 of 0.2 G.S.T), 0.2% 1.7 of 4.8 GByteYear MP Disk (7.4 of 20.8 G.S.T), 35.8% 0.0 of 28.8 GByteYear HSM/Tape (0.0 of 17.9 G.S.T), 0.0% 2.0 of 2.0 PersonDay Support (55.6 of 55.6 G.S.T), 100.0% 4.0 of 4.0 Day Training (43.0 of 43.0 G.S.T), 100.1% Total usage for project cse043 1370.9 of 3841.4 Generic Service Tokens, 35.7% cse050 GR/N/38152 Bradley Last Trade: Fri Jul 27 09:18:59 2001 Usage: 0.0 of 104742.3 PEHour MPP PE CPU (0.0 of 2532.5 G.S.T), 0.0% 0.0 of 11.0 GByteYear HP Disk (0.0 of 85.2 G.S.T), 0.0% 0.0 of 1300.0 Hour SMP CPU (0.0 of 50.5 G.S.T), 0.0% 0.0 of 4.5 GByteYear HSM/Tape (0.0 of 2.8 G.S.T), 0.0% 0.0 of 20.0 PersonDay Support (0.0 of 555.6 G.S.T), 0.0% 0.0 of 10.0 Day Training (0.0 of 107.5 G.S.T), 0.0% Total usage for project cse050 0.0 of 3334.1 Generic Service Tokens, 0.0% cse052 GR/N17683 Hayes Last Trade: re-enabled Usage: 200747.4 of 280199.7 PEHour MPP PE CPU (4853.8 of 6774.9 G.S.T), 71.6% 2.7 of 9.1 GByteYear HP Disk (20.7 of 70.8 G.S.T), 29.2% 0.0 of 600.0 Hour SMP CPU (0.0 of 23.3 G.S.T), 0.0% 0.0 of 8.5 GByteYear MP Disk (0.0 of 36.5 G.S.T), 0.0% 0.0 of 3.0 GByteYear HSM/Tape (0.0 of 1.9 G.S.T), 0.0% 0.0 of 10.0 PersonDay Support (0.0 of 277.8 G.S.T), 0.0% 0.0 of 25.0 Day Training (0.0 of 268.8 G.S.T), 0.0% Total usage for project cse052 4874.5 of 7453.9 Generic Service Tokens, 65.4% cse053 GR/R04225 Leschziner

Last Trade: Mon Oct 15 12:52:06 2001 Usage: 17247.7 of 319557.6 PEHour MPP PE CPU (417.0 of 7726.5 G.S.T), 5.4% 0.9 of 115.0 GByteYear HP Disk (7.0 of 890.4 G.S.T), 0.8% 73.9 of 14000.0 Hour SMP CPU (2.9 of 543.9 G.S.T), 0.5% 0.5 of 85.0 GByteYear MP Disk (2.2 of 364.6 G.S.T), 0.6% 0.0 of 100.0 GByteYear HSM/Tape (0.0 of 62.3 G.S.T), 0.0% 608.9 of 1850.9 Hour Green CPU (31.8 of 96.7 G.S.T), 32.9% 0.0 of 15.0 PersonDay Support (0.0 of 416.7 G.S.T), 0.0% 0.0 of 8.0 Day Training (0.0 of 86.0 G.S.T), 0.0%	
Total usage for project cse053 460.9 of 10187.1 Generic Service Tokens, 4.5%	
cse055 GR/N66810 Staunton Last Trade: Mon Aug 6 09:05:54 2001 Usage: 939.4 of 24604.0 PEHour MPP PE CPU (22.7 of 594.9 G.S.T), 3.8% 0.9 of 2.5 GByteYear HP Disk (6.9 of 19.4 G.S.T), 35.7% 0.0 of 3.1 Hour SMP CPU (0.0 of 0.1 G.S.T), 0.0% 0.0 of 5.0 PersonDay Support (0.0 of 138.9 G.S.T), 0.0% 0.0 of 10.0 Day Training (0.0 of 107.5 G.S.T), 0.0% Total usage for project cse055 29.6 of 860.8 Generic Service Tokens, 3.4%	
cse056 GR/N24773 Imregun Last Trade: Thu May 23 16:11:57 2002 Usage: 0.0 of 100.2 PEHour MPP PE CPU (0.0 of 2.4 G.S.T), 0.0% 0.0 of 40.0 GByteYear HP Disk (0.0 of 309.6 G.S.T), 0.0% 162.8 of 33774.1 Hour SMP CPU (6.3 of 1312.2 G.S.T), 0.5% 0.1 of 2.7 GByteYear MP Disk (0.6 of 11.7 G.S.T), 4.7% 0.0 of 5.0 PersonDay Support (0.0 of 138.9 G.S.T), 0.0% 0.0 of 10.0 Day Training (0.0 of 107.5 G.S.T), 0.0% Total usage for project cse056 6.9 of 1882.4 Generic Service Tokens, 0.4%	
cse057 GR/R23909 Krushelnick Last Trade: Fri Sep 7 11:39:20 2001 Usage: 2310.0 of 86751.6 PEHour MPP PE CPU (55.9 of 2097.5 G.S.T), 2.7% 0.3 of 30.0 GByteYear HP Disk (2.5 of 232.3 G.S.T), 1.1% 1.7 of 62.2 Hour SMP CPU (0.1 of 2.4 G.S.T), 2.7% 0.5 of 462.7 Hour Green CPU (0.0 of 24.2 G.S.T), 0.1% 0.0 of 20.0 PersonDay Support (0.0 of 555.6 G.S.T), 0.0% 0.0 of 10.0 Day Training (0.0 of 107.5 G.S.T), 0.0% Total usage for project cse057 58.4 of 3019.5 Generic Service Tokens, 1.9%	
cse063 GR/R46151 Sandham Last Trade: Tue Dec 11 09:17:13 2001 Usage: 497.3 of 404163.7 PEHour MPP PE CPU (12.0 of 9772.2 G.S.T), 0.1% 5.3 of 100.0 GByteYear HP Disk (40.7 of 774.2 G.S.T), 5.3% 0.0 of 0.6 Hour SMP CPU (0.0 of 0.0 G.S.T), 0.1% 0.0 of 50.0 GByteYear MP Disk (0.0 of 214.5 G.S.T), 0.0% 0.0 of 525.0 GByteYear HSM/Tape (0.0 of 327.3 G.S.T), 0.0% 0.0 of 30.0 PersonDay Support (0.0 of 833.3 G.S.T), 0.0% 0.0 of 10.0 Day Training (0.0 of 107.5 G.S.T), 0.0% Total usage for project cse063 52.7 of 12029.1 Generic Service Tokens, 0.4%	

cse064 GR/R43570 Leschziner Last Trade: Mon Jan 21 16:36:28 2002 Usage: 995.5 of 165039.1 PEHour MPP PE CPU (24.1 of 3990.4 G.S.T), 0.6% 0.1 of 35.0 GByteYear HP Disk (0.7 of 271.0 G.S.T), 0.3% 5.6 of 22000.0 Hour SMP CPU (0.2 of 854.7 G.S.T), 0.0% 0.0 of 33.0 GByteYear MP Disk (0.0 of 141.6 G.S.T), 0.0% 0.0 of 4.0 GByteYear MSM/Tape (0.0 of 2.5 G.S.T), 0.0% 0.0 of 10.0 PersonDay Support (0.0 of 277.8 G.S.T), 0.0% 2.0 of 8.0 Day Training (21.5 of 86.0 G.S.T), 25.0% Total usage for project cse064 46.5 of 5624.0 Generic Service Tokens, 0.8%
cse066 GR/R30907 Coveney Last Trade: Mon Sep 3 10:18:08 2001 Usage: 47029.6 of 87981.1 PEHour MPP PE CPU (1137.1 of 2127.3 G.S.T), 53.5% 6.0 of 90.0 GByteYear HP Disk (46.7 of 696.8 G.S.T), 6.7% 2329.5 of 15000.0 Hour SMP CPU (90.5 of 582.8 G.S.T), 15.5% 7.6 of 18.0 GByteYear MP Disk (32.5 of 77.4 G.S.T), 42.0% 10557.3 of 64652.8 Hour Green CPU (551.6 of 3378.2 G.S.T), 16.3% 0.0 of 21.0 PersonDay Support (0.0 of 583.3 G.S.T), 0.0% 3.0 of 6.0 Day Training (32.3 of 64.5 G.S.T), 50.0% Total usage for project cse066 1890.7 of 7510.4 Generic Service Tokens, 25.2%
cse071 GR/R23657 lacovides Last Trade: Fri Oct 5 16:21:54 2001 Usage: 0.0 of 3729.7 Hour VPP_CPU (0.0 of 4094.1 G.S.T), 0.0% 0.0 of 20.0 GByteYear Fuji Disk (0.0 of 85.8 G.S.T), 0.0% 0.0 of 5.0 PersonDay Support (0.0 of 138.9 G.S.T), 0.0% 0.0 of 6.0 Day Training (0.0 of 64.5 G.S.T), 0.0% Total usage for project cse071 0.0 of 4383.3 Generic Service Tokens, 0.0%
cse072 GR/R66692 Karlin Last Trade: Fri Feb 8 16:42:38 2002 Usage: 0.0 of 160329.2 PEHour MPP PE CPU (0.0 of 3876.6 G.S.T), 0.0% 0.0 of 3.0 GByteYear HP Disk (0.0 of 23.2 G.S.T), 0.0% 0.0 of 183.0 Hour SMP CPU (0.0 of 7.1 G.S.T), 0.0% 0.0 of 24.0 GByteYear MP Disk (0.0 of 103.0 G.S.T), 0.0% 0.0 of 84.0 GByteYear HSM/Tape (0.0 of 52.4 G.S.T), 0.0% 0.0 of 120.0 Hour VPP_CPU (0.0 of 131.7 G.S.T), 0.0% 0.0 of 1.0 GByteYear Fuji Disk (0.0 of 4.3 G.S.T), 0.0% 0.0 of 18.0 PersonDay Support (0.0 of 500.0 G.S.T), 0.0% 0.0 of 9.0 Day Training (0.0 of 96.8 G.S.T), 0.0% Total usage for project cse072 0.0 of 4795.0 Generic Service Tokens, 0.0%
cse074 GR/R66197 Luo Last Trade: Wed Jan 2 15:22:45 2002 Usage: 0.0 of 15370.1 PEHour MPP PE CPU (0.0 of 371.6 G.S.T), 0.0% 0.0 of 6.0 GByteYear HP Disk (0.0 of 46.5 G.S.T), 0.0% 0.0 of 600.0 Hour SMP CPU (0.0 of 23.3 G.S.T), 0.0%

0.0 of 9.0 GByteYear MP Disk (0.0 of 38.6 G.S.T), 0.0%	
Total usage for project cse074 0.0 of 480.0 Generic Service Tokens, 0.0%	
cse075 GR/R59540 Coveney	
Last Trade: Tue May 21 10:59:31 2002 Usage:	
0.0 of 421953.5 PEHour MPP PE CPU (0.0 of 10202.3 G.S.T), 0.0% 0.1 of 217.0 GByteYear HP Disk (0.9 of 1679.9 G.S.T), 0.1%	
22.4 of 9999.8 Hour SMP CPU (0.9 of 388.5 G.S.T), 0.2%	
1.7 of 150.0 GByteYear MP Disk (7.4 of 643.4 G.S.T), 1.2% 177.0 of 300000.0 Hour Green CPU (9.2 of 15675.6 G.S.T), 0.1%	
0.0 of 34.0 PersonDay Support (0.0 of 944.4 G.S.T), 0.0% 0.0 of 14.0 Day Training (0.0 of 150.5 G.S.T), 0.0%	
Total usage for project cse075 18.4 of 29684.7 Generic Service Tokens, 0.1%	
cse076 GR/R66975 Briddon	
Last Trade: Mon Apr 29 08:38:04 2002 Usage:	
2439.7 of 4161.1 PEHour MPP PE CPU (59.0 of 100.6 G.S.T), 58.6%	
0.3 of 1.3 GByteYear HP Disk (2.3 of 10.5 G.S.T), 21.9% 185043.9 of 257593.3 Hour SMP CPU (7189.2 of 10007.9 G.S.T), 71.8%	
2.0 of 27.2 GByteYear MP Disk (8.4 of 116.6 G.S.T), 7.2%	
127190.7 of 260197.5 Hour Green CPU (6646.0 of 13595.9 G.S.T), 48.9% 11.0 of 20.0 PersonDay Support (305.6 of 555.6 G.S.T), 55.0%	
Total usage for project cse076 14210.5 of 24387.0 Generic Service Tokens, 58.3%	
cse084 GR/R47066 Needs	
Last Trade: Mon May 20 12:41:44 2002 Usage:	
133304.5 of 306225.8 PEHour MPP PE CPU (3223.1 of 7404.1 G.S.T), 43.5%	
7.9 of 270.0 GByteYear HP Disk (61.1 of 2090.4 G.S.T), 2.9% 3452.7 of 14484.3 Hour SMP CPU (134.1 of 562.7 G.S.T), 23.8%	
6.1 of 75.6 GByteYear MP Disk (26.3 of 324.4 G.S.T), 8.1%	
60433.9 of 78955.4 Hour Green CPU (3157.8 of 4125.6 G.S.T), 76.5% 0.0 of 19.0 PersonDay Support (0.0 of 527.8 G.S.T), 0.0%	
0.0 of 10.0 Day Training (0.0 of 107.5 G.S.T), 0.0%	
Total usage for project cse084 6602.4 of 15142.6 Generic Service Tokens, 43.6%	
cse085 GR/R64957 Sandham	
Last Trade: Tue Dec 11 09:51:37 2001 Usage:	
114177.2 of 1388400.0 PEHour MPP PE CPU (2760.7 of 33569.7 G.S.T), 8.2%	
90.0 of 650.0 GByteYear HP Disk (697.0 of 5032.5 G.S.T), 13.9%	
1821.9 of 4045.2 Hour SMP CPU (70.8 of 157.2 G.S.T), 45.0% 64.8 of 750.0 GByteYear MP Disk (277.9 of 3217.2 G.S.T), 8.6%	
506.4 of 1375.0 GByteYear HSM/Tape (315.7 of 857.2 G.S.T), 36.8%	
95253.3 of 655628.0 Hour Green CPU (4977.2 of 34257.9 G.S.T), 14.5%	
0.0 of 257.1 Hour VPP_CPU (0.0 of 282.3 G.S.T), 0.0%	
0.0 of 0.6 GByteYear Fuji Disk (0.0 of 2.4 G.S.T), 0.0% 0.0 of 15.0 PersonDay Support (0.0 of 416.7 G.S.T), 0.0%	
3.0 of 6.0 Day Training (32.3 of 64.5 G.S.T), 50.0%	
Total usage for project cse085 9131.6 of 77857.7 Generic Service Tokens, 11.7%	

cse086 GR/R83118 Taylor

Last Trade: re	enabled
Usage:	
54583.1 of 21	6107.7 PEHour MPP PE CPU (1319.7 of 5225.2 G.S.T), 25.3%
5.4 of 34.4 G	ByteYear HP Disk (42.1 of 266.5 G.S.T), 15.8%
1279.1 of 672	4.6 Hour SMP CPU (49.7 of 261.3 G.S.T), 19.0%
15.1 of 497.0	GByteYear MP Disk (64.8 of 2132.0 G.S.T), 3.0%
	GByteYear HSM/Tape (0.1 of 2337.9 G.S.T), 0.0%
	9900.0 Hour Green CPU (817.6 of 47544.2 G.S.T), 1.7%
	rsonDay Support (0.0 of 972.2 G.S.T), 0.0%
	ay Training (0.0 of 1247.3 G.S.T), 0.0%
	project cse086 2294.1 of 59986.5 Generic Service Tokens, 3.8%
cse086a MP1	
Last Trade: ne	/er
Usage:	
U	PEHour MPP PE CPU (0.0 of 483.6 G.S.T), 0.0%
	teYear HP Disk (3.8 of 31.0 G.S.T), 12.4%
	r SMP CPU (0.0 of 0.0 G.S.T), 1.4%
	rteYear MP Disk (7.2 of 21.4 G.S.T), 33.4%
	subproject cse086a 11.0 of 536.0 Generic Service Tokens, 2.1%
cse086b MP2	
Last Trade: ne	ver
Usage:	
	0 PEHour MPP PE CPU (1.1 of 483.6 G.S.T), 0.2%
	rteYear HP Disk (12.4 of 38.7 G.S.T), 32.1%
	ur SMP CPU (0.2 of 0.9 G.S.T), 26.6%
	rteYear MP Disk (3.1 of 21.4 G.S.T), 14.5%
	000.0 Hour Green CPU (769.4 of 1045.0 G.S.T), 73.6%
	subproject cse086b 786.3 of 1589.7 Generic Service Tokens, 49.5%
cse086d MP4	
Last Trade: ne	ver
Usage:	
-	rteYear HP Disk (0.1 of 0.8 G.S.T), 8.0%
	teYear MP Disk (0.0 of 0.4 G.S.T), 7.4%
	subproject cse086d 0.1 of 1.2 Generic Service Tokens, 7.8%
cse086e MP5	
Last Trade: ne	ver
Usage:	
	0 PEHour MPP PE CPU (1.2 of 483.6 G.S.T), 0.2%
	rteYear HP Disk (1.3 of 38.7 G.S.T), 3.2%
	0 Hour SMP CPU (14.2 of 77.7 G.S.T), 18.3%
	rteYear MP Disk (7.2 of 21.4 G.S.T), 33.4%
	0.0 Hour Green CPU (28.5 of 522.5 G.S.T), 5.4%
I otal usage fo	subproject cse086e 52.3 of 1144.0 Generic Service Tokens, 4.6%
cse086f EC1	
Last Trade: ne	ver
Usage:	
1.1 of 20000.	PEHour MPP PE CPU (0.0 of 483.6 G.S.T), 0.0% rteYear HP Disk (1.9 of 38.7 G.S.T), 5.0%

0.1 of 40.0 GByteYear HSM/Tape (0.1 of 24.9 G.S.T), 0.2%
0.0 of 10000.0 Hour Green CPU (0.0 of 522.5 G.S.T), 0.0%
Total usage for subproject cse086f 8.5 of 1118.4 Generic Service Tokens, 0.8%
cse086g EC2
Last Trade: never
Usage:
8.4 of 20000.0 PEHour MPP PE CPU (0.2 of 483.6 G.S.T), 0.0%
0.3 of 5.0 GByteYear HP Disk (2.5 of 38.7 G.S.T), 6.5% 1.2 of 2000.0 Hour SMP CPU (0.0 of 77.7 G.S.T), 0.1%
4.6 of 5.0 GByteYear MP Disk (19.7 of 21.4 G.S.T), 92.1%
377.2 of 10000.0 Hour Green CPU (19.7 of 522.5 G.S.T), 3.8%
Total usage for subproject cse086g 42.2 of 1144.0 Generic Service Tokens, 3.7%
cse086h EC3
Last Trade: never
Usage: 46323.8 of 16000.0 PEHour MPP PE CPU (1120.1 of 386.9 G.S.T), 289.5%
0.6 of 5.0 GByteYear HP Disk (4.4 of 38.7 G.S.T), 11.4%
51.7 of 0.1 Hour SMP CPU (2.0 of 0.0 G.S.T), 51739.4%
3.1 of 5.0 GByteYear MP Disk (13.2 of 21.4 G.S.T), 61.4%
0.0 of 10000.0 Hour Green CPU (0.0 of 522.5 G.S.T), 0.0% Total usage for subproject cse086h 1139.6 of 969.5 Generic Service Tokens, 117.5%
cse086i EC4
Last Trade: never
Usage:
0.0 of 0.1 GByteYear HP Disk (0.1 of 0.8 G.S.T), 7.4%
0.0 of 0.1 GByteYear MP Disk (0.0 of 0.4 G.S.T), 7.4% Total usage for subproject cse086i 0.1 of 1.2 Generic Service Tokens, 7.4%
cse086j BEC1
Last Trade: never
Usage:
8155.9 of 10000.0 PEHour MPP PE CPU (197.2 of 241.8 G.S.T), 81.6%
0.1 of 3.0 GByteYear HP Disk (0.4 of 23.2 G.S.T), 1.8% 0.0 of 0.1 Hour SMP CPU (0.0 of 0.0 G.S.T), 0.2%
0.0 of 5.0 GByteYear MP Disk (0.1 of 21.4 G.S.T), 0.3%
0.0 of 1000.0 Hour Green CPU (0.0 of 52.3 G.S.T), 0.0%
Total usage for subproject cse086j 197.7 of 338.7 Generic Service Tokens, 58.4%
cse086k BEC2
Last Trade: never Usage:
0.0 of 0.1 GByteYear HP Disk (0.1 of 0.8 G.S.T), 7.4%
850.2 of 2000.0 Hour SMP CPU (33.0 of 77.7 G.S.T), 42.5%
1.5 of 5.0 GByteYear MP Disk (6.3 of 21.4 G.S.T), 29.6%
Total usage for subproject cse086k 39.4 of 99.9 Generic Service Tokens, 39.5%
csobocy_bonchmarking
csehpcx - benchmarking Last Trade: Thu May 16 10:53:45 2002
Usage:

0.0 of 206793.4 PEHour MPP PE CPU (0.0 of 5000.0 G.S.T), 0.0%
Total usage for project csehpcx 0.0 of 5000.0 Generic Service Tokens, 0.0%
csn001 Webb & GST/02/2846 Killworth & T/S/2001/00187 New
Last Trade: Thu May 9 08:54:08 2002
Usage:
403650.3 of 460058.5 PEHour MPP PE CPU (9759.7 of 11123.6 G.S.T), 87.7%
247.0 of 420.3 GByteYear HP Disk (1912.5 of 3253.8 G.S.T), 58.8%
35020.8 of 39308.9 Hour SMP CPU (1360.6 of 1527.2 G.S.T), 89.1%
237.2 of 702.2 GByteYear MP Disk (1017.6 of 3012.0 G.S.T), 33.8% 8023.0 of 15221.7 GByteYear HSM/Tape (5001.8 of 9489.8 G.S.T), 52.7%
455881.7 of 768681.3 Hour Green CPU (23820.8 of 40165.2 G.S.T), 59.3%
621.6 of 838.8 Hour VPP_CPU (682.3 of 920.8 G.S.T), 74.1%
2.4 of 6.3 GByteYear Fuji Disk (10.2 of 27.1 G.S.T), 37.7%
20.0 of 36.2 PersonDay Support (555.6 of 1006.1 G.S.T), 55.2%
3.0 of 35.3 Day Training (32.3 of 379.5 G.S.T), 8.5%
Total usage for project csn001 44153.4 of 70905.2 Generic Service Tokens, 62.3%
csn003 UGAMP O'Neill
Last Trade: Wed May 22 10:19:47 2002
Usage:
3218014.4 of 3860564.3 PEHour MPP PE CPU (77807.5 of 93343.5 G.S.T), 83.4%
65.0 of 113.9 GByteYear HP Disk (503.2 of 881.6 G.S.T), 57.1%
18089.4 of 23508.7 Hour SMP CPU (702.8 of 913.3 G.S.T), 76.9%
58.5 of 93.8 GByteYear MP Disk (250.9 of 402.3 G.S.T), 62.4%
26750.9 of 31555.2 GByteYear HSM/Tape (16677.6 of 19672.8 G.S.T), 84.8% 64373.6 of 262133.3 Hour Green CPU (3363.7 of 13697.0 G.S.T), 24.6%
64016.9 of 88908.6 Hour VPP_CPU (70271.1 of 97594.5 G.S.T), 72.0%
321.3 of 442.9 GByteYear Fuji Disk (1378.5 of 1900.0 G.S.T), 72.6%
0.0 of 3.0 Hour Compaq EV67 CPU (0.0 of 1.1 G.S.T), 0.0%
0.0 of 1.7 GByteYear Compaq Disk (0.0 of 7.1 G.S.T), 0.0%
0.0 of 0.0 PersonDay Support (0.0 of 0.0 G.S.T)
4.0 of 4.0 Day Training (43.0 of 43.0 G.S.T), 100.0%
Total usage for project csn003 170998.2 of 228456.2 Generic Service Tokens, 74.8%
csn006 GR9/3550 Price
Last Trade: Wed May 15 10:02:01 2002
Usage: 1483192.2 of 1674524.0 PEHour MPP PE CPU (35861.7 of 40487.8 G.S.T), 88.6%
1483192.2 0F1674524.0 PEHOUR MPP PE CPU (35861.7 0F40487.8 G.S.T), 88.6% 111.1 of 192.2 GByteYear HP Disk (860.3 of 1488.4 G.S.T), 57.8%
70301.6 of 72226.1 Hour SMP CPU (2731.3 of 2806.1 G.S.T), 97.3%
20.6 of 85.5 GByteYear MP Disk (88.3 of 366.8 G.S.T), 24.1%
1.2 of 20.3 GByteYear HSM/Tape (0.8 of 12.6 G.S.T), 6.1%
167578.0 of 369394.9 Hour Green CPU (8756.3 of 19301.6 G.S.T), 45.4%
Total usage for project csn006 48298.7 of 64463.4 Generic Service Tokens, 74.9%
csn012 NER/A/S/2000/01315 Tennyson
Last Trade: re-enabled
Usage:
0.0 of 1.2 GByteYear MP Disk (0.0 of 5.0 G.S.T), 0.2%
4395.6 of 4850.7 Hour VPP_CPU (4825.0 of 5324.6 G.S.T), 90.6%
8.3 of 9.3 GByteYear Fuji Disk (35.5 of 40.0 G.S.T), 88.7% Total usage for project csn012 4860.5 of 5369.6 Generic Service Tokens, 90.5%

csn013 GR3/12954 Voke Last Trade: re-enabled Usage: 925.3 of 1711.2 Hour VPP_CPU (1015.7 of 1878.4 G.S.T), 54.1% 0.0 of 2.3 GByteYear Fuji Disk (0.0 of 9.9 G.S.T), 0.0% Total usage for project csn013 1015.7 of 1888.3 Generic Service Tokens, 53.8%
csn014 GST/02/2785 Llewellyn-Jones Last Trade: re-enabled Usage: 0.0 of 658.3 PEHour MPP PE CPU (0.0 of 15.9 G.S.T), 0.0% 0.0 of 15.0 GByteYear HP Disk (0.0 of 116.1 G.S.T), 0.0% 0.0 of 12.9 Hour SMP CPU (0.0 of 0.5 G.S.T), 0.0% 0.0 of 5.0 GByteYear MP Disk (0.0 of 21.4 G.S.T), 0.0% Total usage for project csn014 0.0 of 154.0 Generic Service Tokens, 0.0%
csn015 Proctor Last Trade: Fri May 17 12:17:47 2002 Usage: 226535.6 of 472776.0 PEHour MPP PE CPU (5477.3 of 11431.1 G.S.T), 47.9% 3.0 of 5.0 GByteYear HP Disk (23.4 of 38.7 G.S.T), 60.6% 684.0 of 1662.0 Hour SMP CPU (26.6 of 64.6 G.S.T), 41.2% 42.0 of 99.3 GByteYear MP Disk (180.0 of 425.8 G.S.T), 42.3% 1717.7 of 2450.1 GByteYear HSM/Tape (1070.9 of 1527.5 G.S.T), 70.1% 90386.9 of 240788.5 Hour Green CPU (4722.9 of 12581.7 G.S.T), 37.5% 0.0 of 3451.8 Hour VPP_CPU (0.0 of 3789.0 G.S.T), 0.0% 0.0 of 4.9 GByteYear Fuji Disk (0.0 of 21.0 G.S.T), 0.0% 2.0 of 10.0 PersonDay Support (55.6 of 277.8 G.S.T), 20.0% 3.0 of 7.0 Day Training (32.3 of 75.3 G.S.T), 42.9% Total usage for project csn015 11588.9 of 30232.5 Generic Service Tokens, 38.3%
csn017 Payne GR3/12917 Last Trade: re-enabled Usage: 435.9 of 435.9 PEHour MPP PE CPU (10.5 of 10.5 G.S.T), 100.0% 0.2 of 0.2 GByteYear HP Disk (1.9 of 1.8 G.S.T), 104.1% 1393.5 of 2237.4 Hour SMP CPU (54.1 of 86.9 G.S.T), 62.3% 1.5 of 13.6 GByteYear MP Disk (6.5 of 58.4 G.S.T), 11.2% 16.4 of 2126.6 Hour Green CPU (0.9 of 111.1 G.S.T), 0.8% 0.0 of 16.0 PersonDay Support (0.0 of 444.4 G.S.T), 0.0% 2.0 of 18.0 Day Training (21.5 of 193.5 G.S.T), 11.1% Total usage for project csn017 95.4 of 906.7 Generic Service Tokens, 10.5%
csn036 NER/T/S/1999/00110 Haines Last Trade: Mon Jun 11 15:58:18 2001 Usage: 0.1 of 128237.1 PEHour MPP PE CPU (0.0 of 3100.6 G.S.T), 0.0% 1.1 of 60.0 GByteYear HP Disk (8.4 of 464.5 G.S.T), 1.8% 90.4 of 400.0 Hour SMP CPU (3.5 of 15.5 G.S.T), 22.6% 0.7 of 60.0 GByteYear MP Disk (2.9 of 257.4 G.S.T), 1.1% 95.2 of 700.0 GByteYear HSM/Tape (59.4 of 436.4 G.S.T), 13.6% 0.0 of 2.0 PersonDay Support (0.0 of 55.6 G.S.T), 0.0% 0.0 of 5.0 Day Training (0.0 of 53.8 G.S.T), 0.0% Total usage for project csn036 74.2 of 4383.8 Generic Service Tokens, 1.7%

csn044 Earth Observation Last Trade: Fri May 17 14:41:41 2002 Usage: 0.0 of 8271.7 PEHour MPP PE CPU (0.0 of 200.0 G.S.T), 0.0% 0.0 of 5.0 GByteYear HP Disk (0.0 of 39.0 G.S.T), 0.0% 0.0 of 2173.9 Hour SMP CPU (0.0 of 84.5 G.S.T), 0.0% 0.0 of 5.0 GByteYear MP Disk (0.0 of 21.5 G.S.T), 0.0% 0.0 of 53.8 GByteYear HSM/Tape (0.0 of 33.5 G.S.T), 0.0% 0.0 of 91.1 Hour VPP_CPU (0.0 of 100.0 G.S.T), 0.0% 0.0 of 5.0 GByteYear Fuji Disk (0.0 of 21.5 G.S.T), 0.0% Total usage for project csn044 0.0 of 500.0 Generic Service Tokens, 0.0%
csp004 PPA/G/0/2000/00024 Bell Last Trade: Thu Mar 29 12:49:04 2001 Usage: 36158.0 of 86221.7 PEHour MPP PE CPU (874.3 of 2084.7 G.S.T), 41.9% 6.9 of 47.0 GByteYear HP Disk (53.1 of 363.9 G.S.T), 14.6% 35.9 of 4274.0 Hour SMP CPU (1.4 of 166.1 G.S.T), 0.8% 4.9 of 24.0 GByteYear MP Disk (21.0 of 103.0 G.S.T), 20.4% 0.0 of 7.0 PersonDay Support (0.0 of 194.4 G.S.T), 0.0% 0.0 of 8.0 Day Training (0.0 of 86.0 G.S.T), 0.0% Total usage for project csp004 949.7 of 2998.1 Generic Service Tokens, 31.7%
csp006 PPA/G/S/2001/00050 Browning Last Trade: Fri Feb 15 17:02:18 2002 Usage: 65.8 of 800.0 Hour VPP_CPU (72.2 of 878.2 G.S.T), 8.2% 0.0 of 20.0 GByteYear Fuji Disk (0.0 of 85.8 G.S.T), 0.0% 0.0 of 12.0 Day Training (0.0 of 129.0 G.S.T), 0.0% Total usage for project csp006 72.2 of 1093.0 Generic Service Tokens, 6.6%
HPCI Daresbury Last Trade: re-enabled Usage: 34672.7 of 34482.9 PEHour MPP PE CPU (838.3 of 833.8 G.S.T), 100.6% 3.5 of 3.8 GByteYear HP Disk (27.1 of 29.6 G.S.T), 91.5% 4061.8 of 4120.4 Hour SMP CPU (157.8 of 160.1 G.S.T), 98.6% 1.7 of 1.7 GByteYear MP Disk (7.2 of 7.2 G.S.T), 99.5% 10817.5 of 10497.3 Hour Green CPU (565.2 of 548.5 G.S.T), 103.1% 1.0 of 1.0 Day Training (10.8 of 10.8 G.S.T), 99.7% Total usage for project hpcid 1606.4 of 1589.9 Generic Service Tokens, 101.0%
HPCI Edinburgh Last Trade: Wed Jul 11 12:09:29 2001 Usage: 1480.9 of 4070.6 PEHour MPP PE CPU (35.8 of 98.4 G.S.T), 36.4% 3.5 of 4.7 GByteYear HP Disk (26.9 of 36.6 G.S.T), 73.6% 698.4 of 770.8 Hour SMP CPU (27.1 of 29.9 G.S.T), 90.6% 2.4 of 2.8 GByteYear MP Disk (10.2 of 12.0 G.S.T), 84.9% 1728.7 of 1739.8 Hour Green CPU (90.3 of 90.9 G.S.T), 99.4% Total usage for project hpcie 190.4 of 267.9 Generic Service Tokens, 71.1%

HPCI Southampton

Last Trade: re-enabled
Usage:
737.9 of 5825.0 PEHour MPP PE CPU (17.8 of 140.8 G.S.T), 12.7%
31.7 of 31.6 GByteYear HP Disk (245.7 of 244.8 G.S.T), 100.4%
37.8 of 1074.0 Hour SMP CPU (1.5 of 41.7 G.S.T), 3.5%
3.1 of 3.0 GByteYear MP Disk (13.4 of 12.8 G.S.T), 104.6%
Total usage for project hpcis 278.4 of 440.2 Generic Service Tokens, 63.2%

ukhec

Last Trade: Thu Oct 18 17:45:15 2001 Usage:

69.5 of 10000.0 PEHour MPP PE CPU (1.7 of 241.8 G.S.T), 0.7%

0.2 of 10.0 GByteYear HP Disk (1.4 of 77.4 G.S.T), 1.8%

0.0 of 10000.0 Hour SMP CPU (0.0 of 388.5 G.S.T), 0.0%

0.2 of 10.0 GByteYear MP Disk (0.8 of 42.9 G.S.T), 1.8%

0.0 of 5302.4 Hour Green CPU (0.0 of 277.1 G.S.T), 0.0%

0.0 of 750.0 Hour VPP_CPU (0.0 of 823.3 G.S.T), 0.0%

0.2 of 3.0 GByteYear Fuji Disk (0.8 of 12.9 G.S.T), 6.1%

2.0 of 2.0 Day Training (21.5 of 21.6 G.S.T), 99.7%

Total usage for project ukhec 26.2 of 1885.4 Generic Service Tokens, 1.4%

Appendix 6

Code	PI	Subject	Subject Area
Caa000	Dr Nicolog Horrigon (Cillog)	Support for the LWOD	Dhypios
	Dr Nicolas Harrison (Gillan)	Support for the UKCP	Physics
	Prof. Ken Taylor Dr Neil Sandham	HPC Consortiums 98- 2000	Physics
		UK Turbulence	Engineering
	Dr Patrick Briddon	Covalently Bonded Materials	Materials
	Dr Matthew Foulkes	Quantum Many Body Theory	Physics
	Dr Mark Vincent (Hillier)	Model Chemical Reactivity	Chemistry
	Dr Ben Slater (Catlow) Dr John Williams	HPC in Materials Chemistry Free Surface Flows	Chemistry
	Dr John Williams		Engineering
		Open Channel Flood Plains	Engineering
	Dr David Aspley (Leschziner)	Complex Engineering Flows	Engineering
	Dr Cassiano de Oliverira (Goddard)	Probs in Nuclear Safety	Engineering
	Dr Stewart Cant	Turbulent Combustion	Engineering
	Dr Stewart Cant	Turbulent Flames	Engineering
	Dr Jason Lander (Berzins)	ROPA	Information Technology
Cse020	Dr Marek Szularz	Symmetric Eigenproblem	Information Technology
	Dr Julie Staunton	Magentisim	Physics
Cse022	Mr Niall Branley (Jones)	Turbulent Flames	Engineering
Cse023	Allen	Liquid Crystalline Materials	Robin Pinning
Cse024	Dr Robert Allan (Tennyson)	ChemReact 98-2000	Chemistry
Cse025	Dr Niels Rene Walet (Bishop)	Nuclear Theory Progamme	Physics
Cse026	Dr Maureen Neal	J90 move	
Cse027	Dr M Imregun	J90 move	
Cse028	Prof. P.W. Bearman	J90 move	
Cse029	Dr David Aspley (Leschziner)	J90 move	Engineering
Cse030	Prof M Cates	HPC for Complex Fluids	Physics
Cse031	Brebbia	J90 move	
Cse033	Dr M Imregun	Tubomachinery core compressor	Chemistry
Cse034	Dr Paul Durham	R&D of liner/non-linear systems	Mathematics
Csn001	Mrs Beverly de Cuevas (Webb)	HPCI Global Ocean Consortium	
Csn002	Dr Mark Vincent (Hillier)	Pollutant Sorption on Mineral Surf	
Csn003	Dr Lois Steenman-Clark (O'Neill)	UGAMP	
Csn005	Dr Huw Davies	Constraining Earth Mantle	
Csn006	Dr John Brodholt (Price)	Density Functional Methods	
Csn007	Dr John Brodholt (Price)	Density Functional Methods	
Csn008	Hulton	Sub-Glacial Process	
Csn009	Dr Roger Proctor		
Csn010	Dr Jason Lander (Mobbs)	Flow over Complex terrain	
Csn011	Dr Ed Dicks (Thorpe)	J90 move	
Csb001	Dr David Houldershaw (Goodfellow)	Macromolecular Interactions	
Csb002	Dr Adrian Mulholland (Danson)	Stability of Enzymes at high temp	
Csb003	Dr John Carling (Williams)	J90 move	
Css001	Dr Stan Openhaw	Human Systems Modelling	1
Css002	Dr Robert Crouchley	Dropout in panel surveys	
Hpcid	Dr Robert Allan		
Hpcie	Dr David Henty		
Hpcis	Dr Denis Nicole		
Cs2001	Dr Sudhir Jain	3D Ising Spin Glass	1
	Dr Ingrid Stairs (Lyne)	Millisecond Pulsars	
	Mr Tom Coulthard	Holocene Sediment Fluxes	
Cs2000	Dr A. Paul Watkins	Internal Combustion Engine	
	Mr Sean Walsh	Arabidopsis Genome	1
	Prof. Walter Temmerman	Superconductivity & Magmetisim	
Cs2000	Choularton	Precipitation in the Mountains	
	onouluiton	i resipitation in the mountains	
	Dr Matthew Genge	Extraterrestrial Mineral Surfaces	