CSAR Service - Management Report

June 2002

This report documents the quality of the CSAR service during the month of June 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 June 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.

June 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 86%.

June also saw the percentage of Green CPU capacity used by jobs larger than 64 PEs at 73%.

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

Table 1 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

Service Quality Measure	Performance Targets					
	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

Table 2 gives actual performance information for the period of June 1st to 30th inclusive.
Overall, the CPARS Performance Achievement in June 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

Service Quality Measure	2001/2											
	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June
HPC Services Availability												
Availability in Core Time (% of time)	98.49%	98.49%	98.49%	98.60%	98.60%	100.00%	99.86%	99.73%	99.70%	96.17%	96.08%	97.66%
Availability out of Core Time (% of time)	98.49%	100%	99.40	99.50%	99.50%	98.49%	99.89%	99.85%	99.97%	97.75%	99.90%	99%
Number of Failures in month	4	2	2	2	2	4	2	1	2	2	1	4
Mean Time between failures in 52 week rolling period (hours)	438	398	365	365	365	337	350	324	313	302	324	313
Fujitsu Service Availability												
Availability in Core Time (% of time)	100%	100%	100%	100%	100%	100%	100%	100%	100%	96.89%	100%	100%
Availability out of Core Time (% of time)	100%	100%	100%	100%	100%	100%	100%	100%	100%	98.92%	100%	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	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<2	<5
Administrative Queries - Max Time to resolve 95% of all queries	<1	<2	<1	<1	<0.5	<2	<0.5	<1	<2	<2	<3	<5
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	<0.5	<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 mont	1	2	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.

Table 3 gives Service Credit values for the month of June. 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.

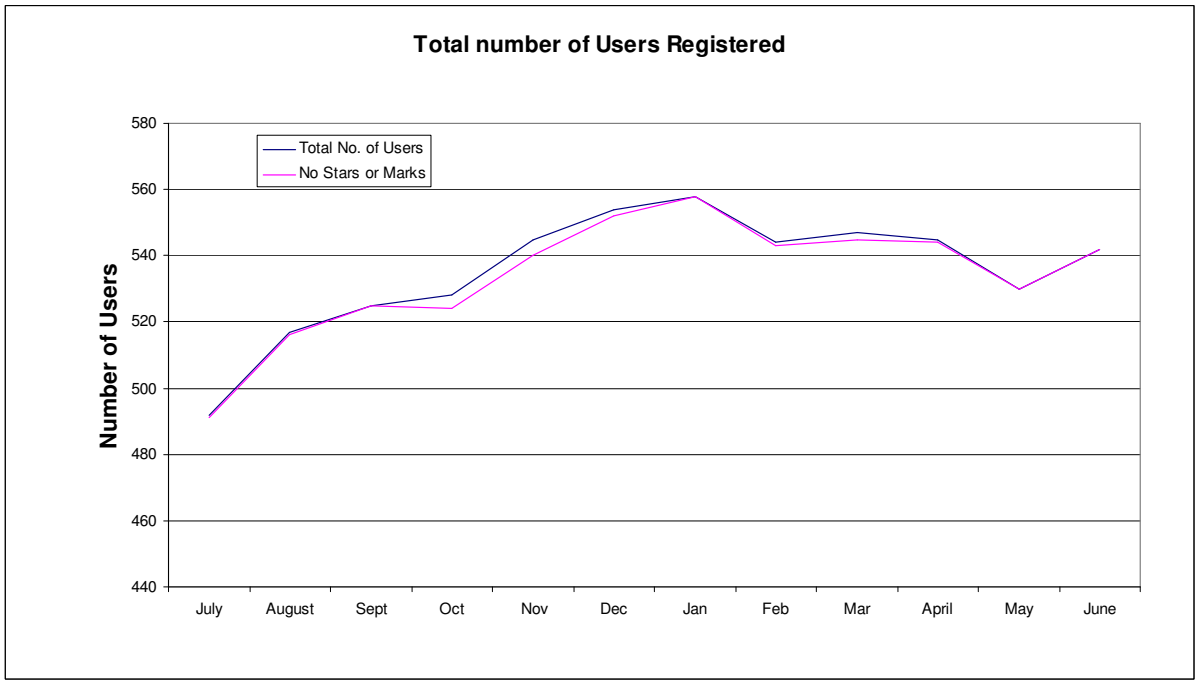
CSAR Service - Service Quality Report - Service Credits

Service Quality Measure	2001/2											
	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June
HPC Services Availability												
Availability in Core Time (% of time)	0.039	0.039	0.039	0.039	0.039	-0.058	-0.039	-0.039	-0.039	0.078	0.078	0.078
Availability out of Core Time (% of time)	0.000	-0.047	0	-0.039	-0.039	0.000	-0.047	-0.047	-0.047	0.039	-0.047	0.000
Number of Failures in month	0.008	0	0	0	0	0.008	0	-0.008	0	0	-0.008	0.000
Mean Time between failures in 52 week rolling period (hours)	0	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	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019
Non In-depth Queries - Max Time to resolve 95% of all queries	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	0	-0.016	-0.016	0	0.031
Administrative Queries - Max Time to resolve 95% of all queries	-0.016	0	-0.016	-0.016	-0.019	0	-0.019	-0.016	0	0	0.016	0.031
Help Desk Telephone - % of calls answered within 2 minutes	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
Others												
Normal Media Exchange Requests - average response time	-0.002	0	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
New User Registration Time (working days)	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019	-0.019
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 mont	-0.003	0	0	0	0	0	0	0	0	0	0	0

Table 3

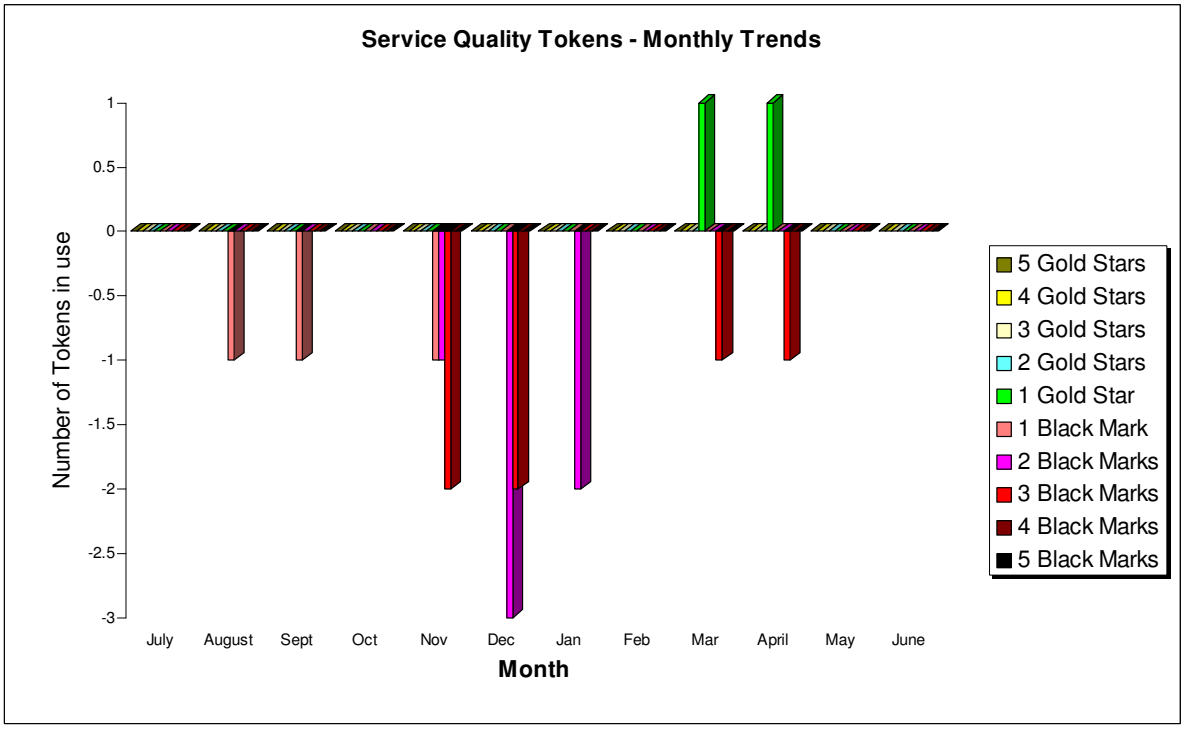
2.2 Service Quality Tokens

The position at the end of June 2002 is that none of the 542 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 204% of Baseline capacity.

Job Throughput Against Baseline CSAR Service Provision

Period: 1st to 30th June 2002

	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?	11.80	24.1	**204.4%**
	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?	11.80	24.1	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?		3	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?		77%	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	75%	No

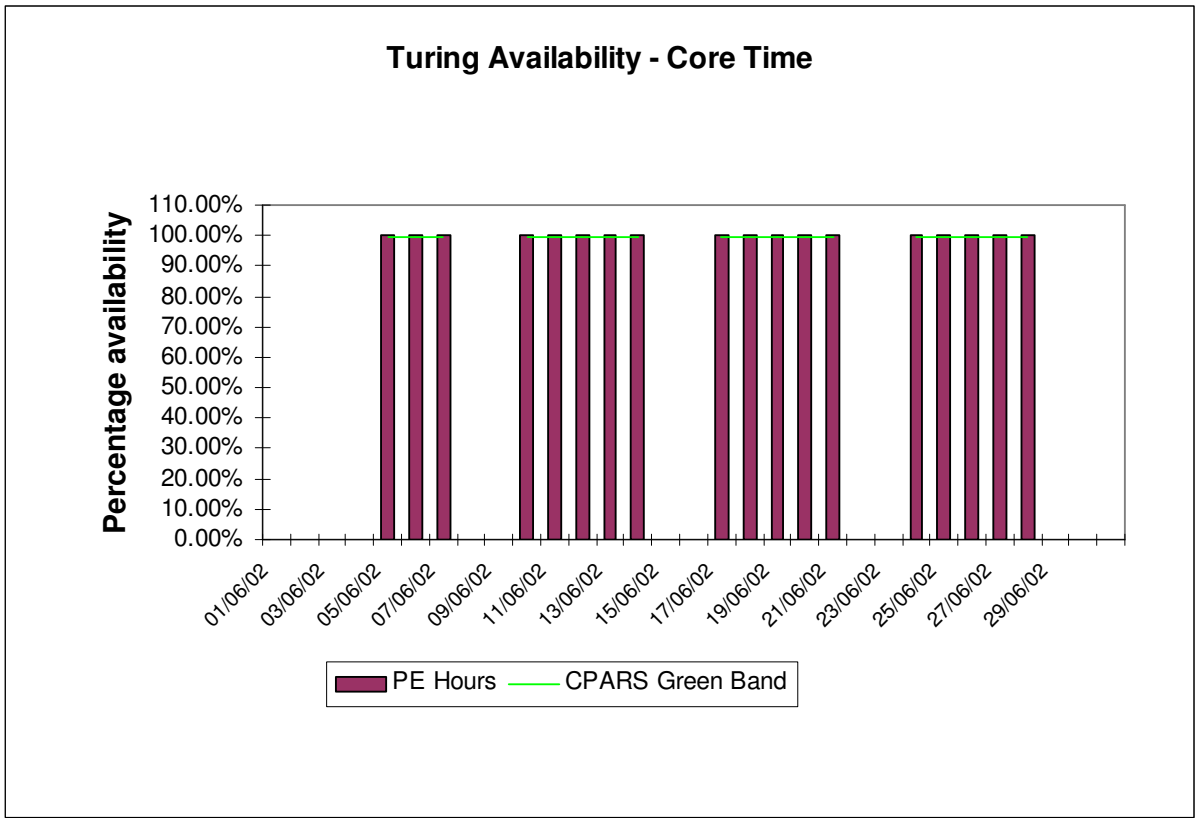
3. System Availability

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.

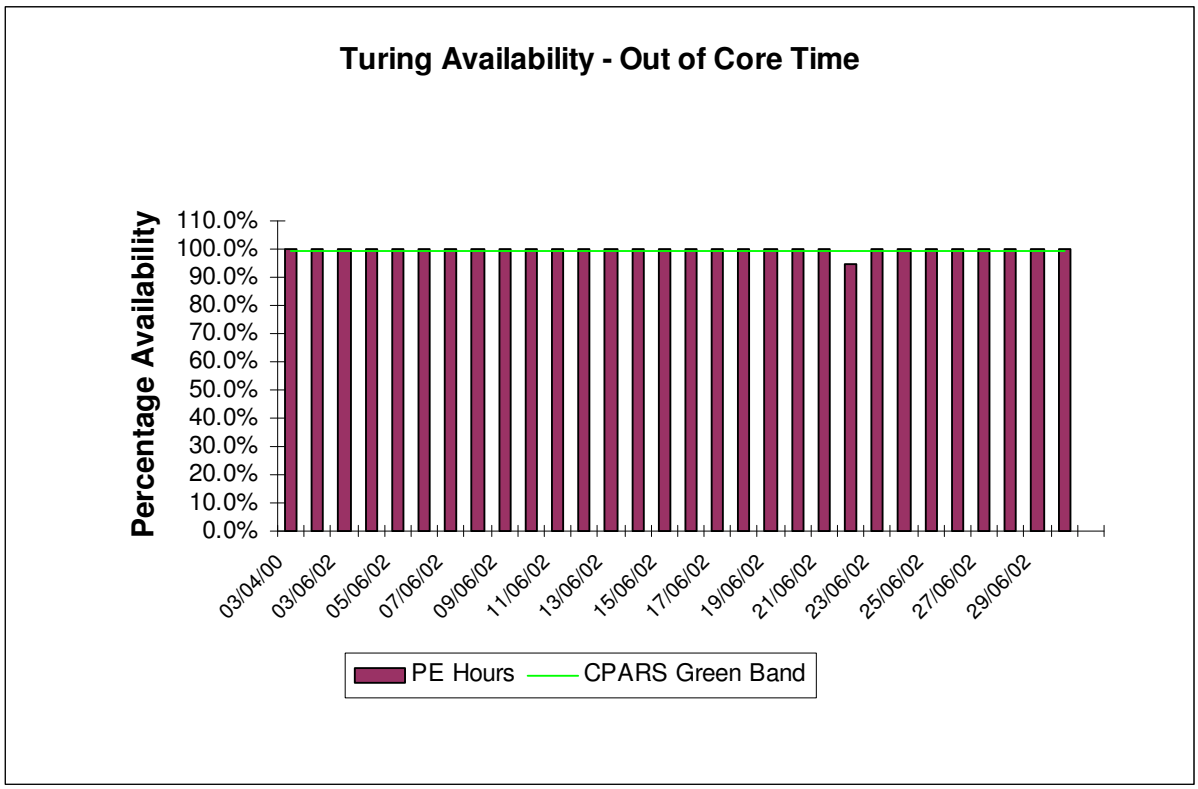
3.1 Cray T3E-1200E System (Turing)

The following graphs show the availability of Turing both in core time and out of core time respectively during the period of 1st to 30th June.

Turing availability for June:



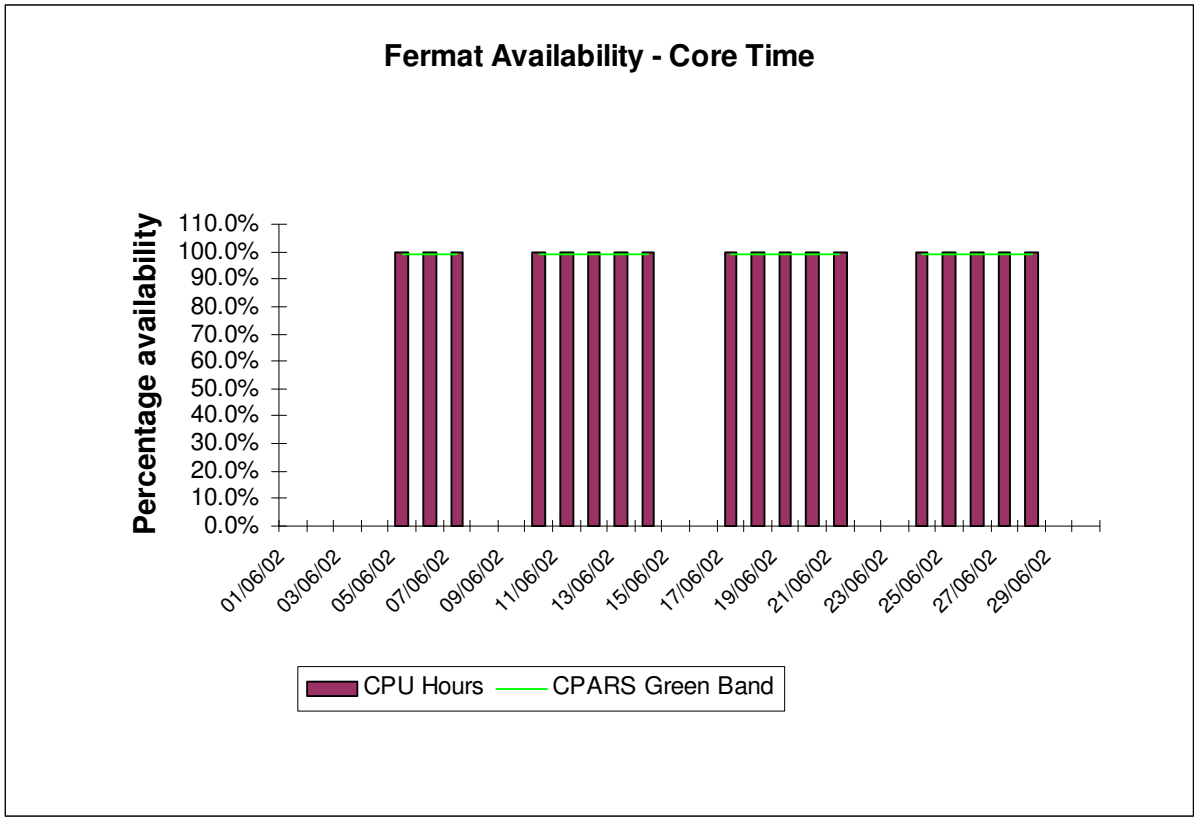
Availability of Turing in core time during June was excellent with no outages.



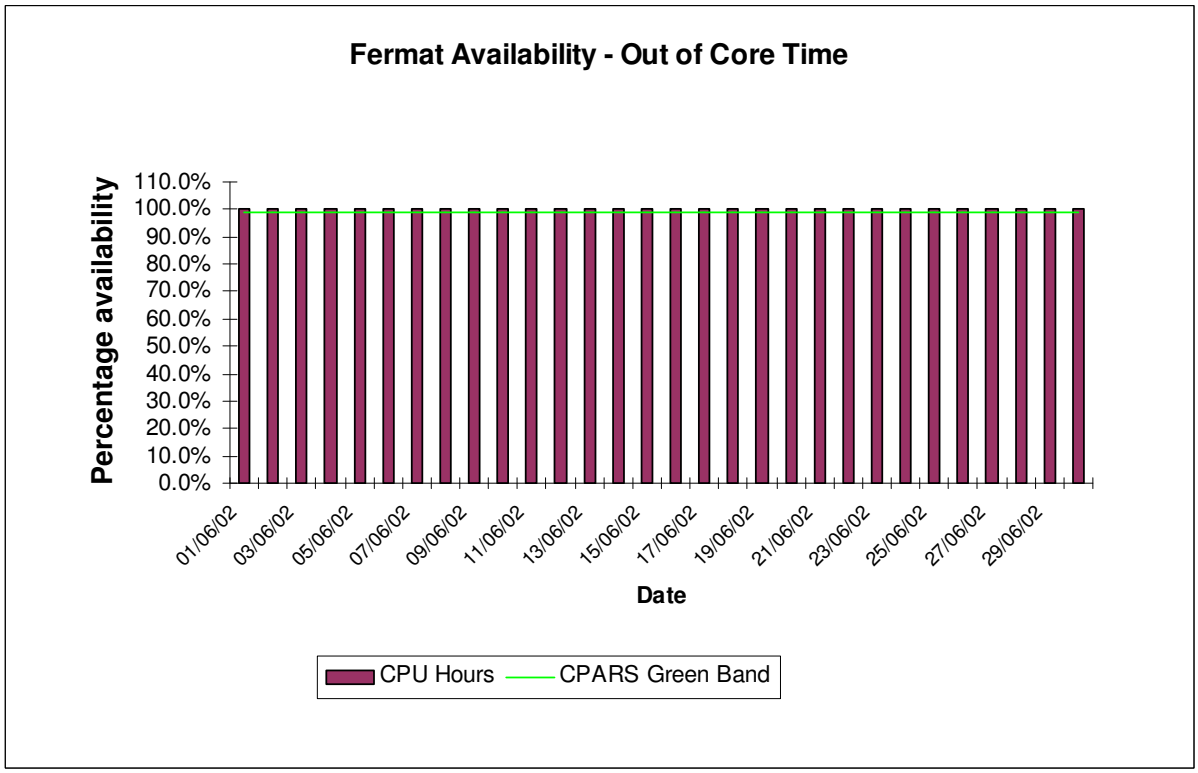
Availability of Turing out of core time during June was very good with one short break in service on the 22nd.

3.2 SGI Origin2000 System (Fermat)

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



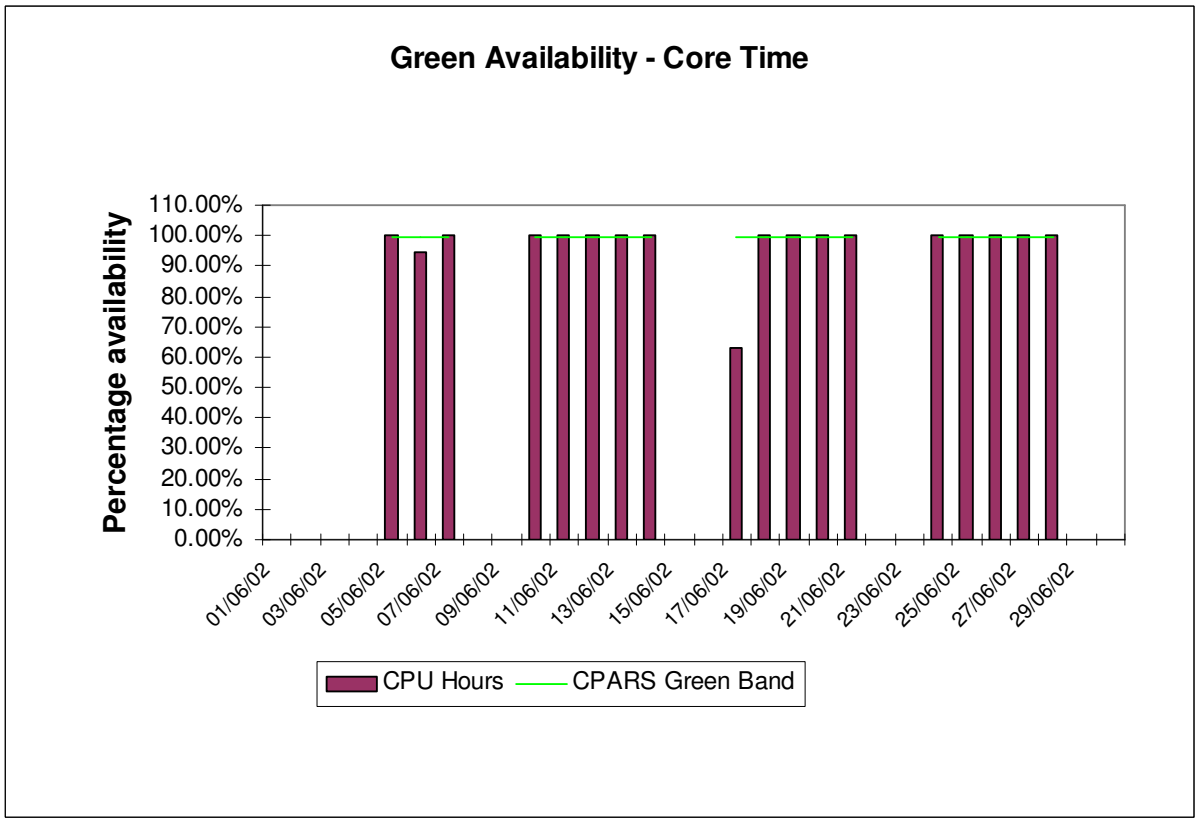
Availability of Fermat in core time during June was excellent, with no outages .



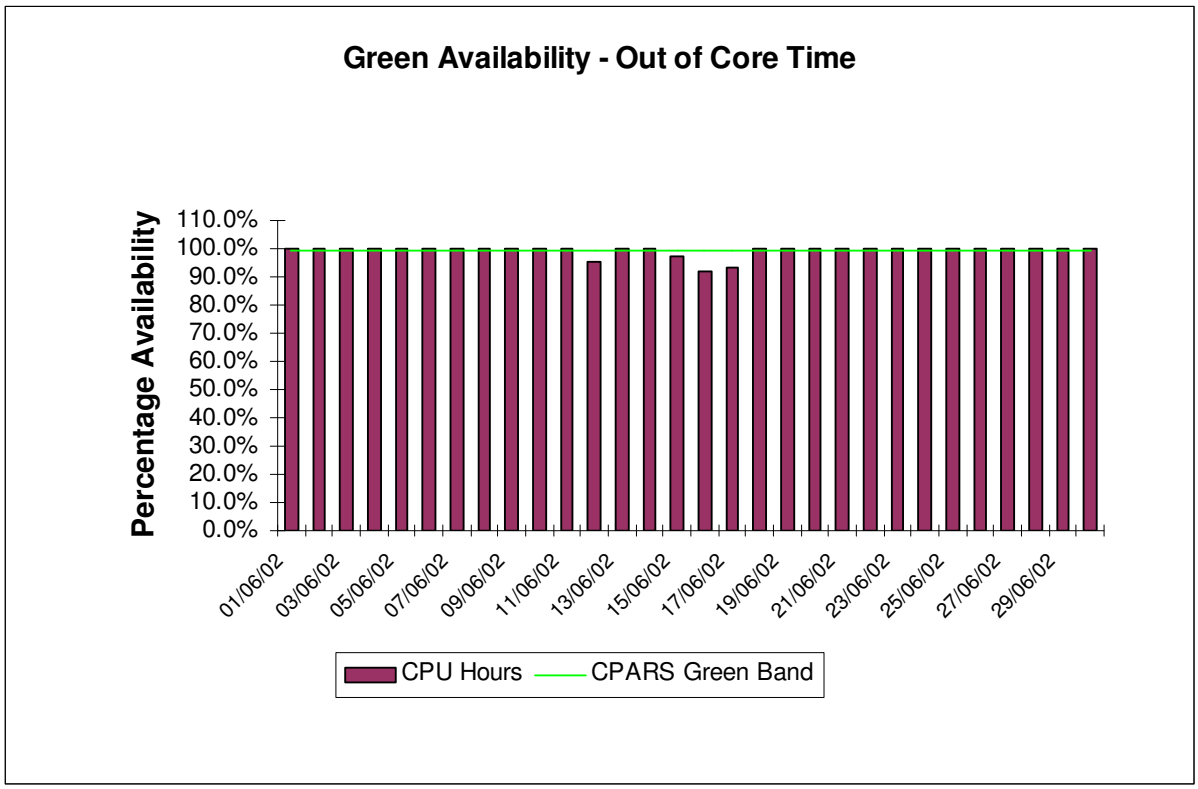
Availability of Fermat out of core time during June was excellent, with no outages.

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 June was good, with the exception of two hardware failures causing outages on the 6th and 17th. The two hardware components affected have both now been isolated from the rest of the system while undergoing diagnostic tests.



Availability of Green out of core time during June was good with the exception of four short outages as shown, caused by the previously-mentioned hardware issues.

4. HPC Services Usage

Usage information is given in tabular form, in Appendices, and in graphical format. The system usage information for the period of June 1st to 30th, is provided by Project/User Group, totalled by Research Council and overall. This covers:

• CPU usage	Turing: 508,468 PE Hours	Fermat (Batch): 45,824 Hours
•	Fermat (Interactive): 533 CPU Hours	
•	Green: 192,382 Hours	
• Fujitsu CPU usage	Fuji: 1,497 CPU Hours	
• User Disk allocation	Turing: 80.28 GB Years	Fermat: 80.63 GB Years
• HSM/tape usage	2,698.83 GB Years	

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

a) MPP/SMP (T3E/Origin) Usage by month, showing usage each month of CPU (GFLOP-Years as per NPB), split by Research Council and by system. The Baseline and the overall Capacity are shown by overlaid horizontal lines.

b) SMP (Origin) Usage by month, showing usage each month in CPU Hours, split by Research Council and giving the equivalent GFLOP-Years as per NPB. The Baseline Capacity is shown by an overlaid horizontal line.

c) High Performance Disk (T3E) allocated for User Data by month, showing the allocated space each month in GBytes, split by Research Council. The Baseline Capacity (1 Terabyte) is shown by an overlaid horizontal line.

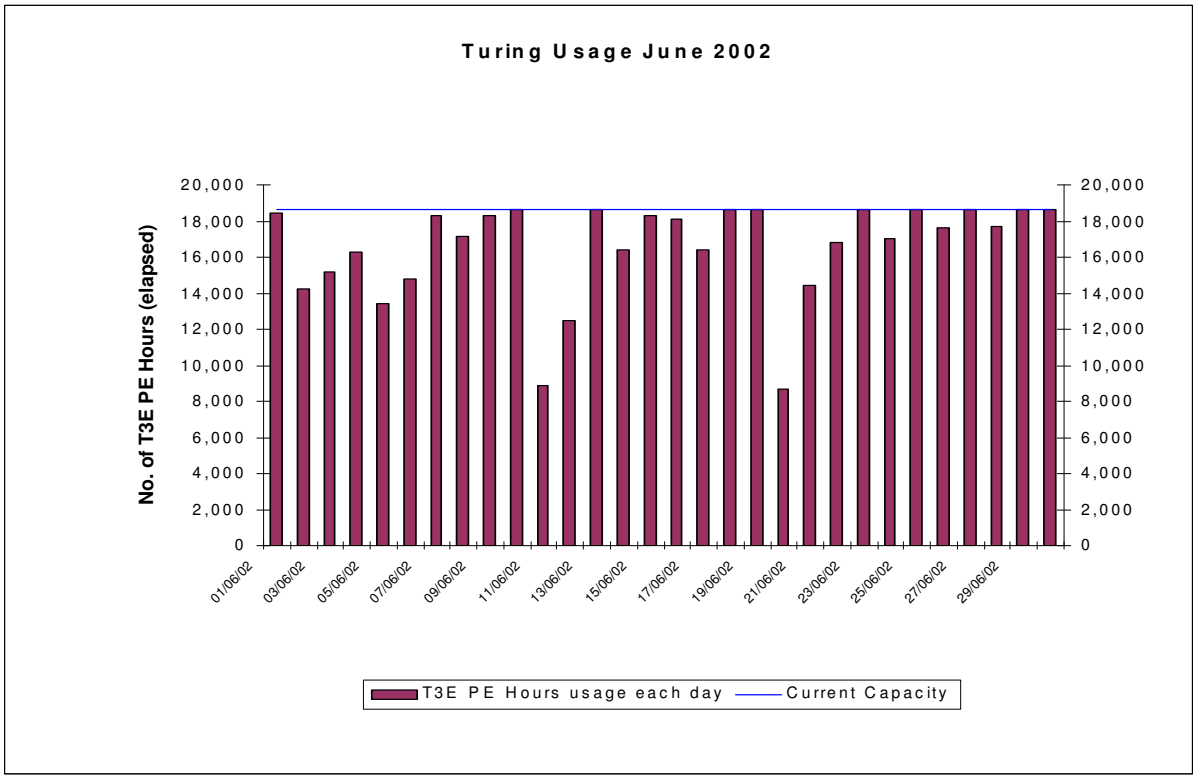
d) Medium Performance Disk (Origin) allocated for User Data by month, showing the allocated space each month in GBytes, split by Research Council. The Baseline Capacity (1.5 Terabytes) is shown by an overlaid horizontal line.

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 June 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 June:



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

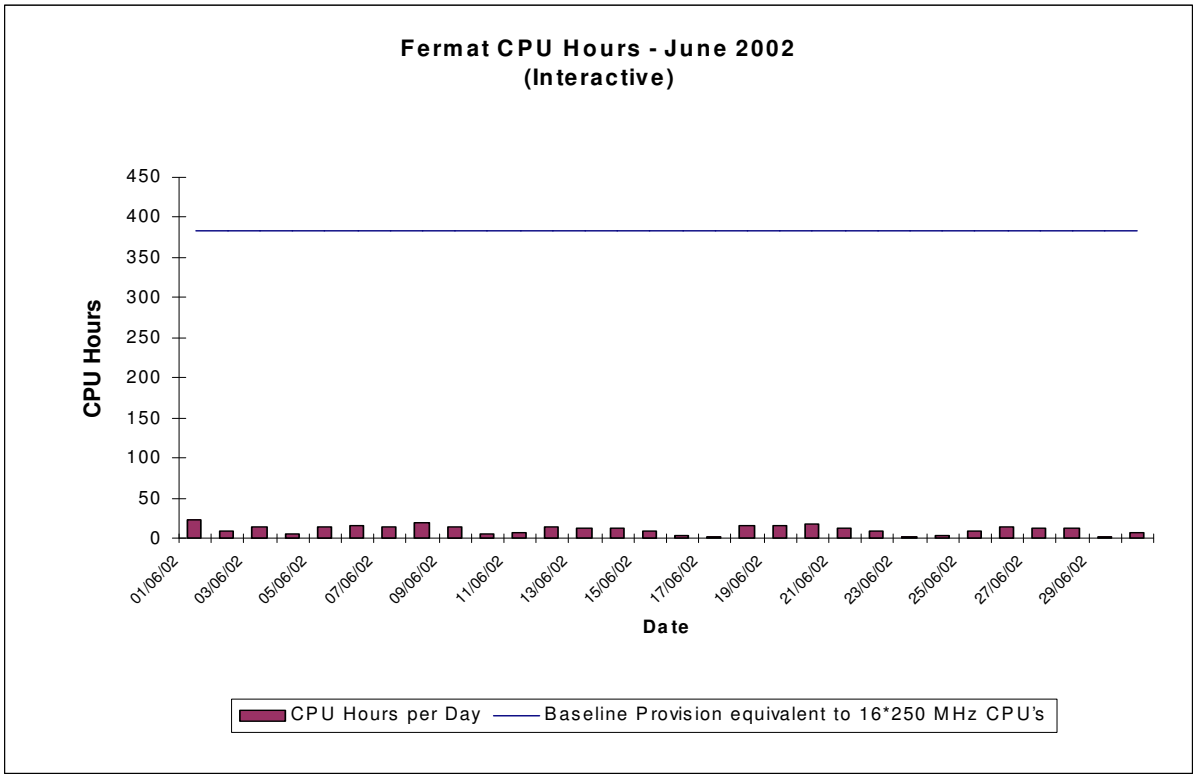
The graph also indicates the workload reached 100% of maximum theoretical capacity some parts of the month.

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.

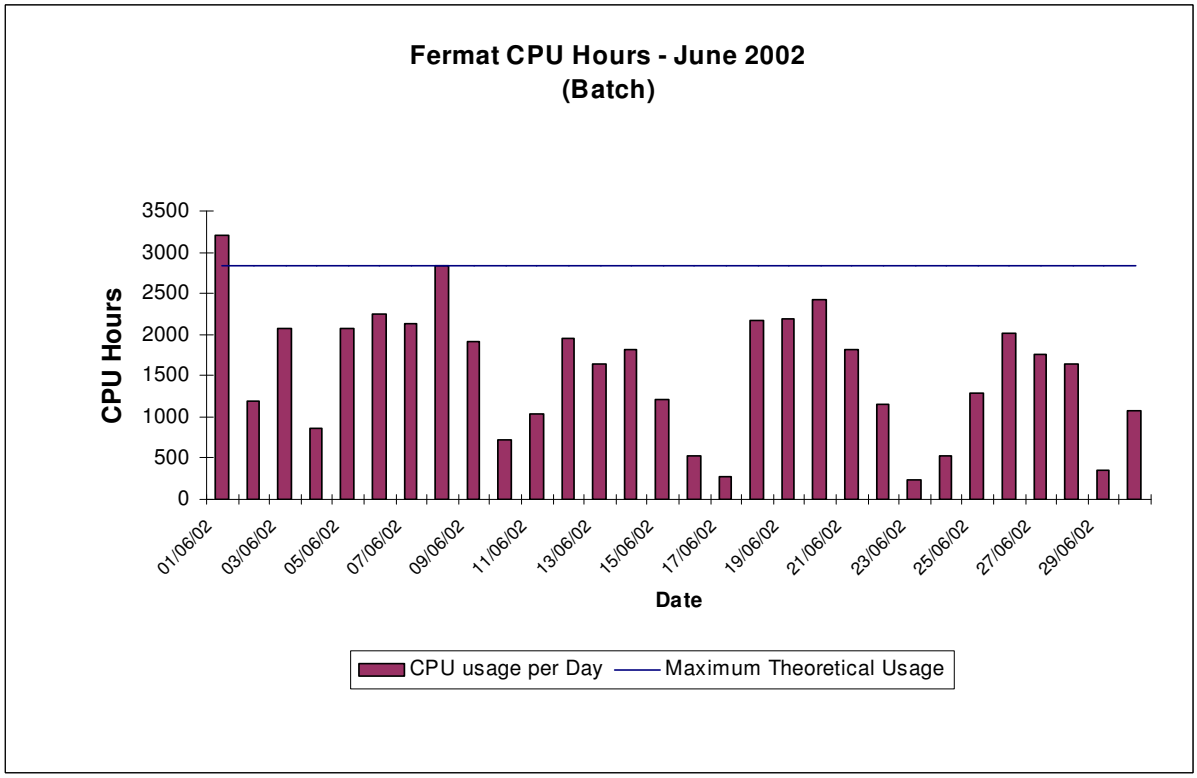
In particular, Turing will continue to start large jobs above 256 PEs, including 512 PEs, when they are queued subject to the overall workload.

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.

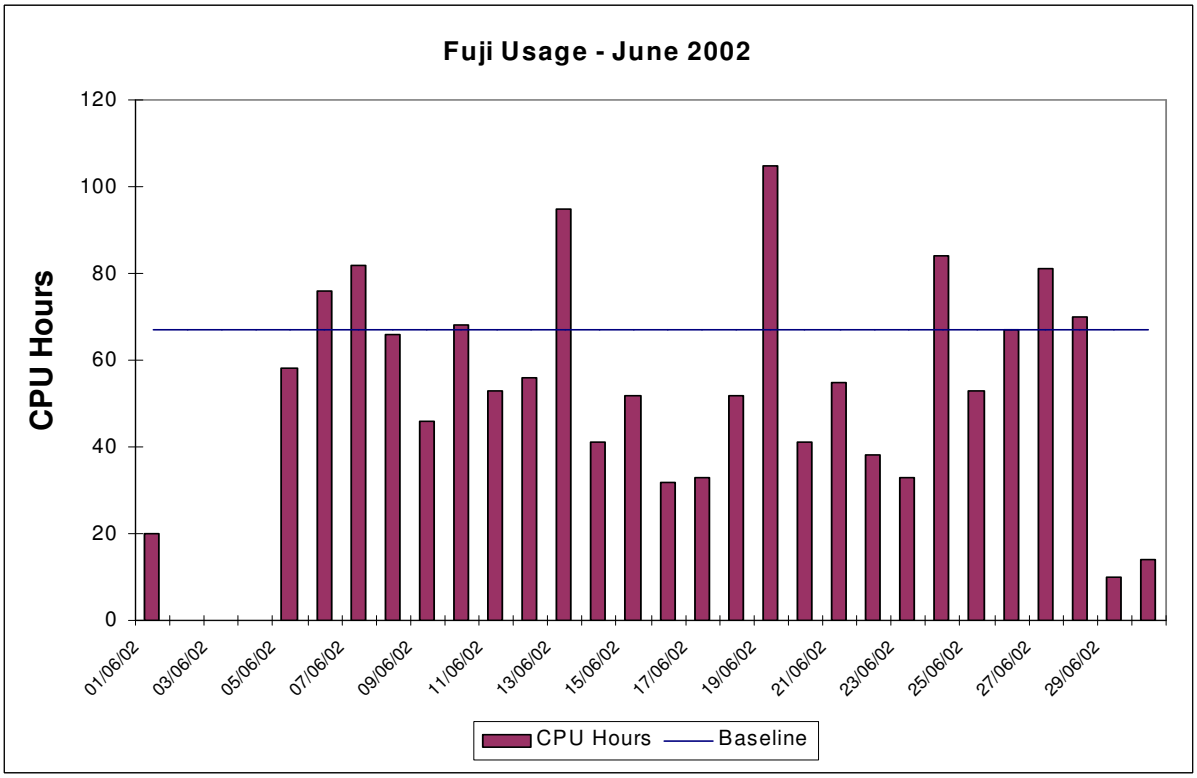


The graph above shows the interactive usage of the Origin 2000 (Fermat).



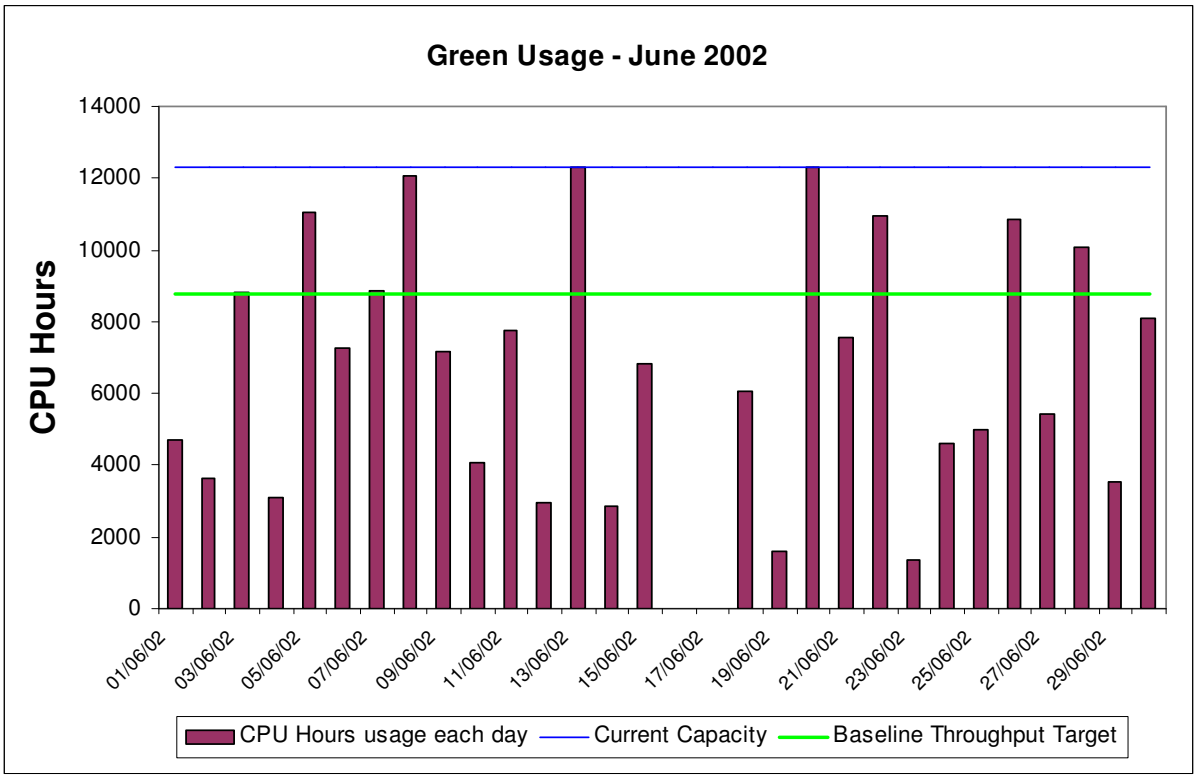
The above graph to a different scale shows the variable batch utilisation of the Origin 128.

4.3 Fujitsu VPP 300/8 System (Fuji)



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

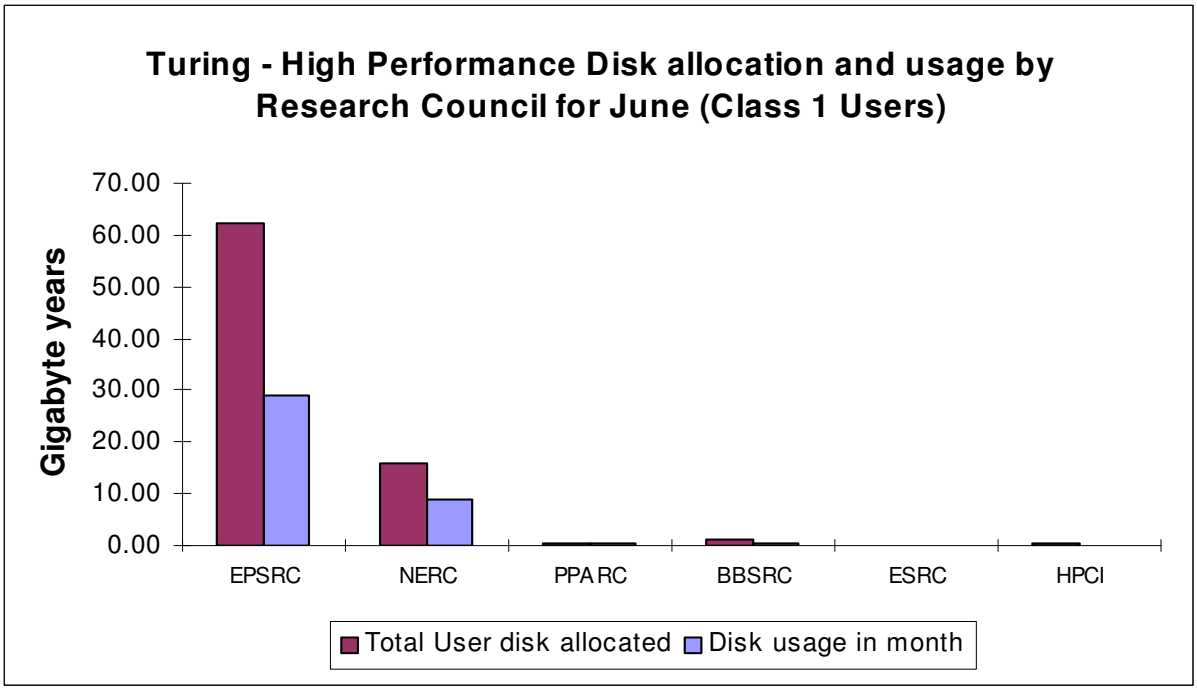
4.4 SGI Origin3000 System (Green)



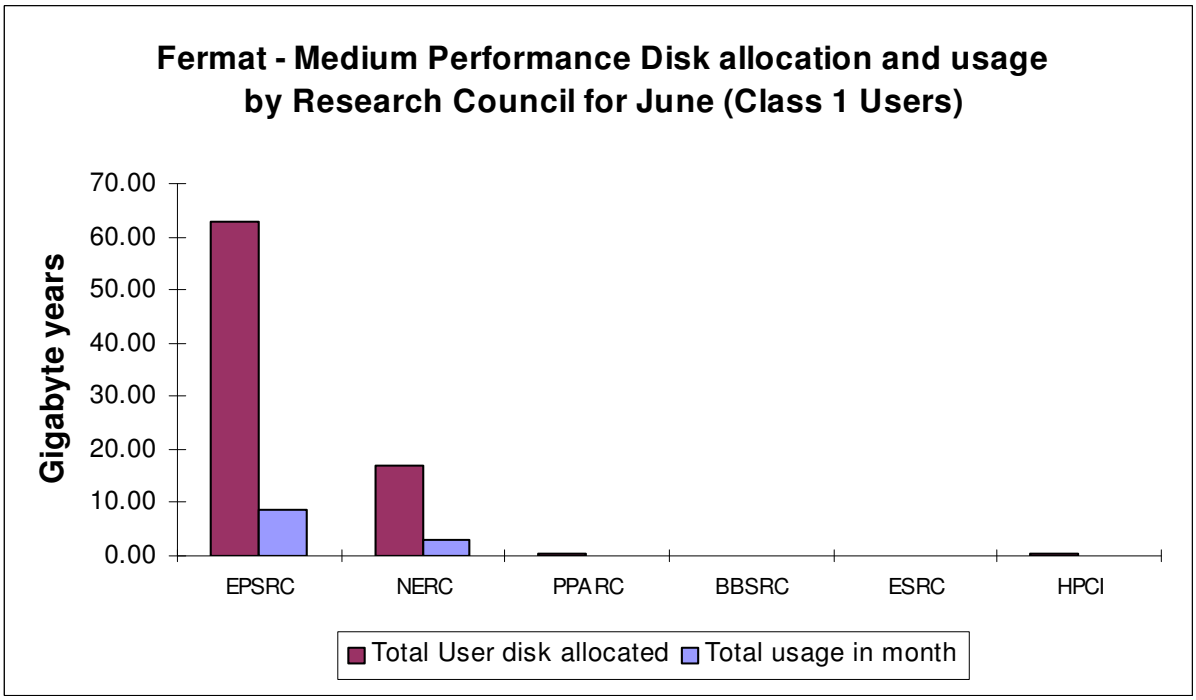
The above graph shows the utilisation of Green for the month of June, which saw the system running with a varied load.

4.5 Disk/HSM Usage Charts

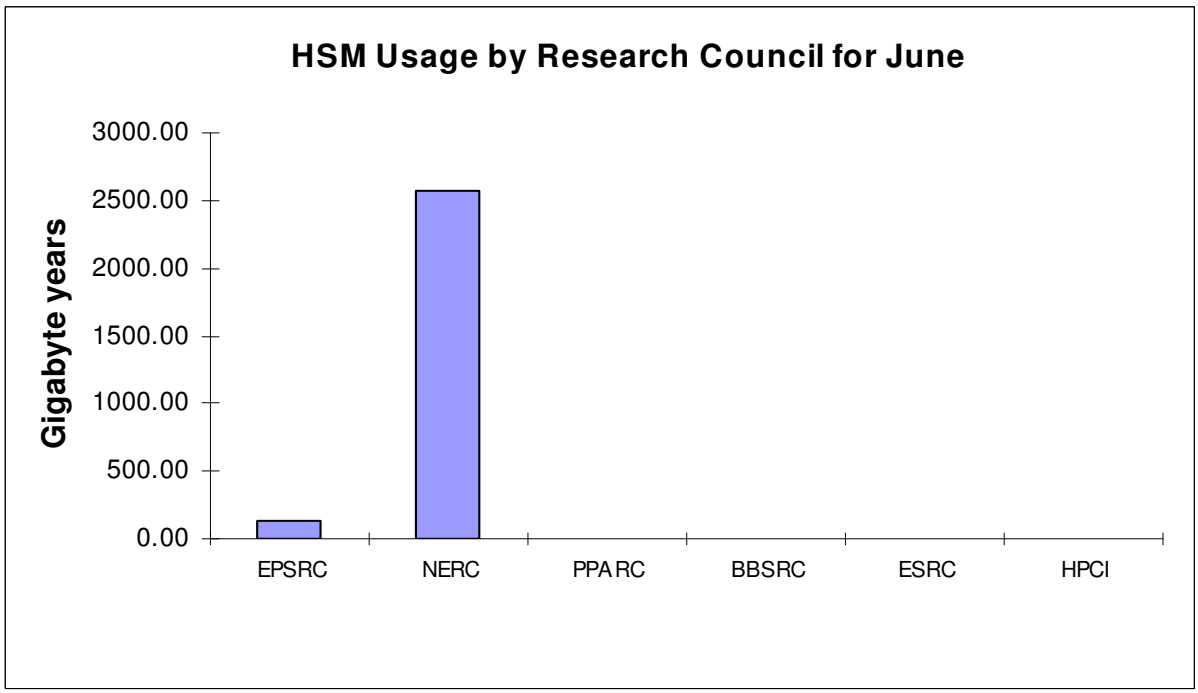
The graphs below show current disk and HSM allocations and usage.



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

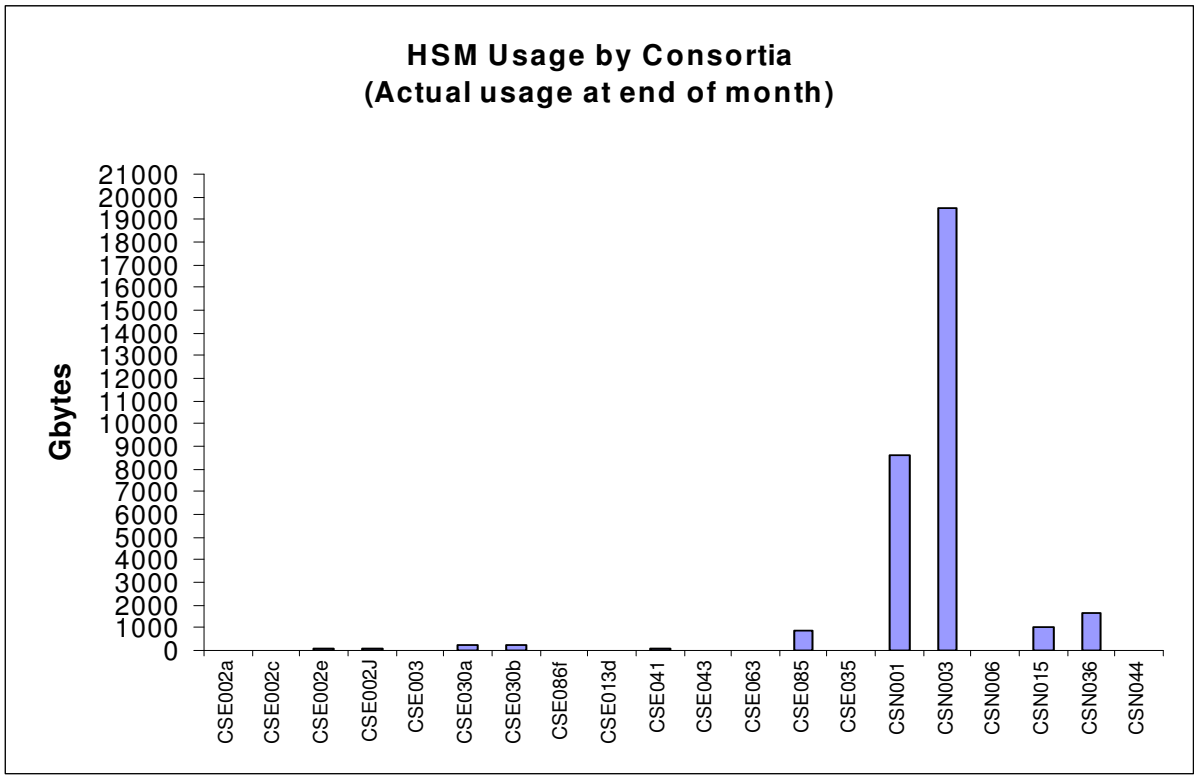


The above graph shows the disk allocations against usage on average of the disk on Fermat.

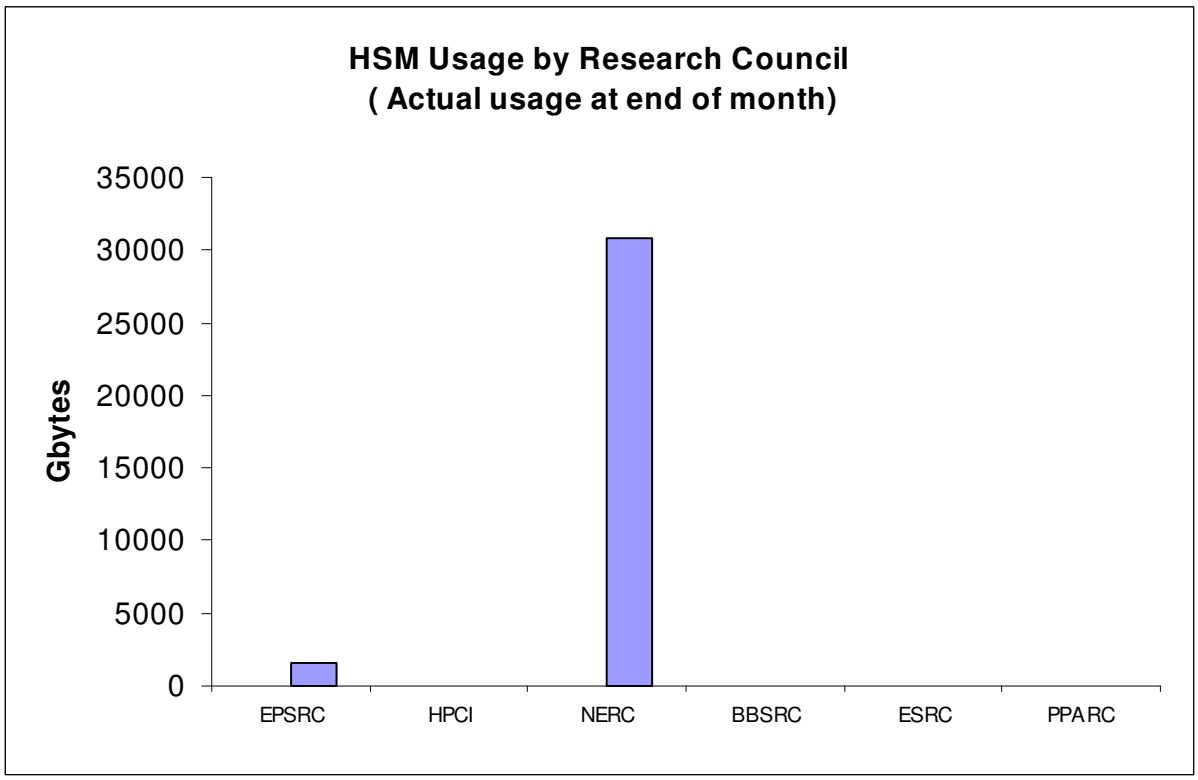


The above graph shows the total usage of the HSM facility by Research Council.

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

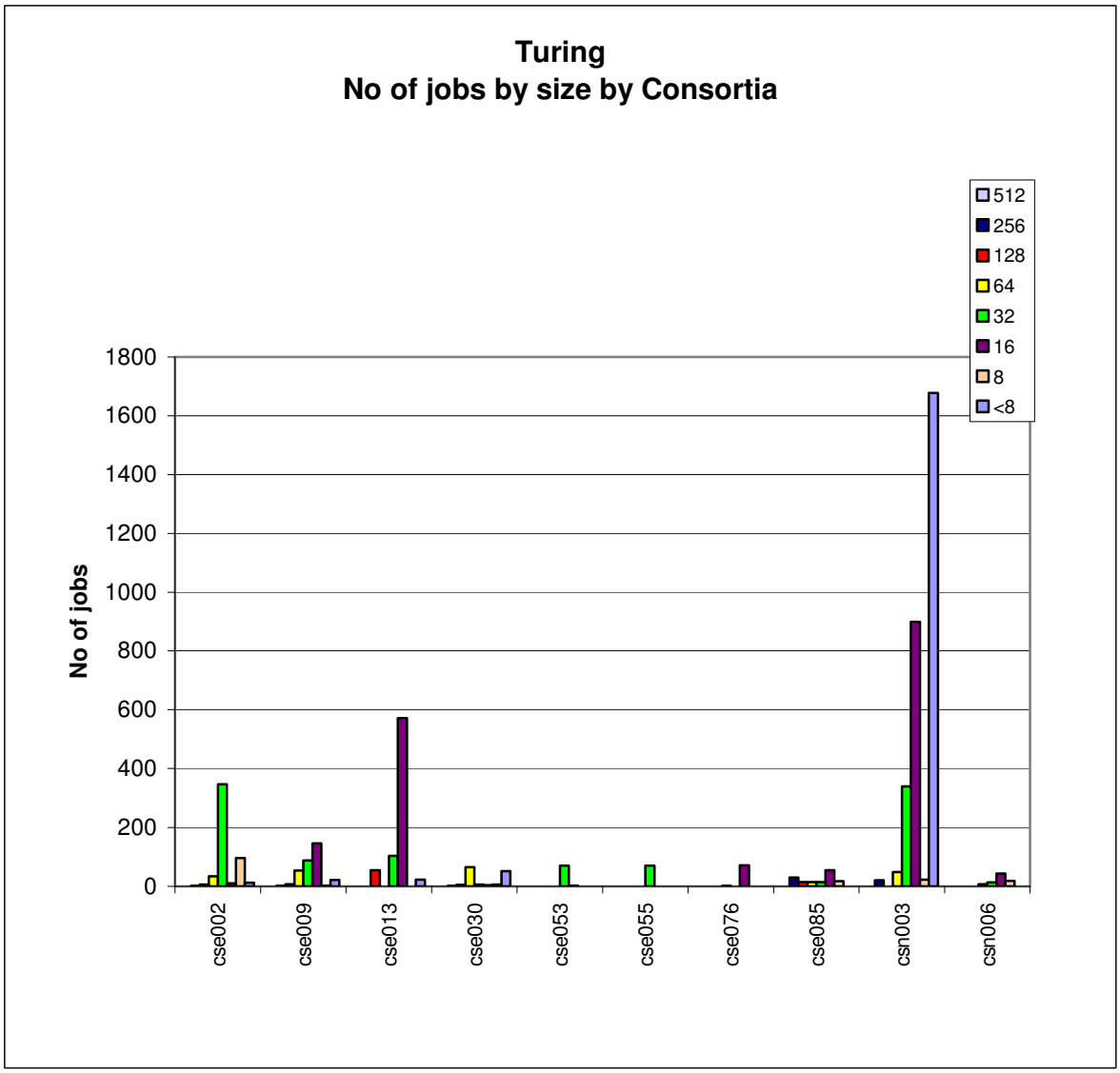


CSE085 (Sandham), CSN001 (Webb), CSN003 (O'Neill), CSN015 (Proctor) & CSN036 were the major users of HSM resource.


HSM Usage by Research Council
(Actual usage at end of month)
Gbytes
35000
30000
25000
20000
15000
10000
5000
0
EPSRC
HPCI
NERC
BBSRC
ESRC
PPARC

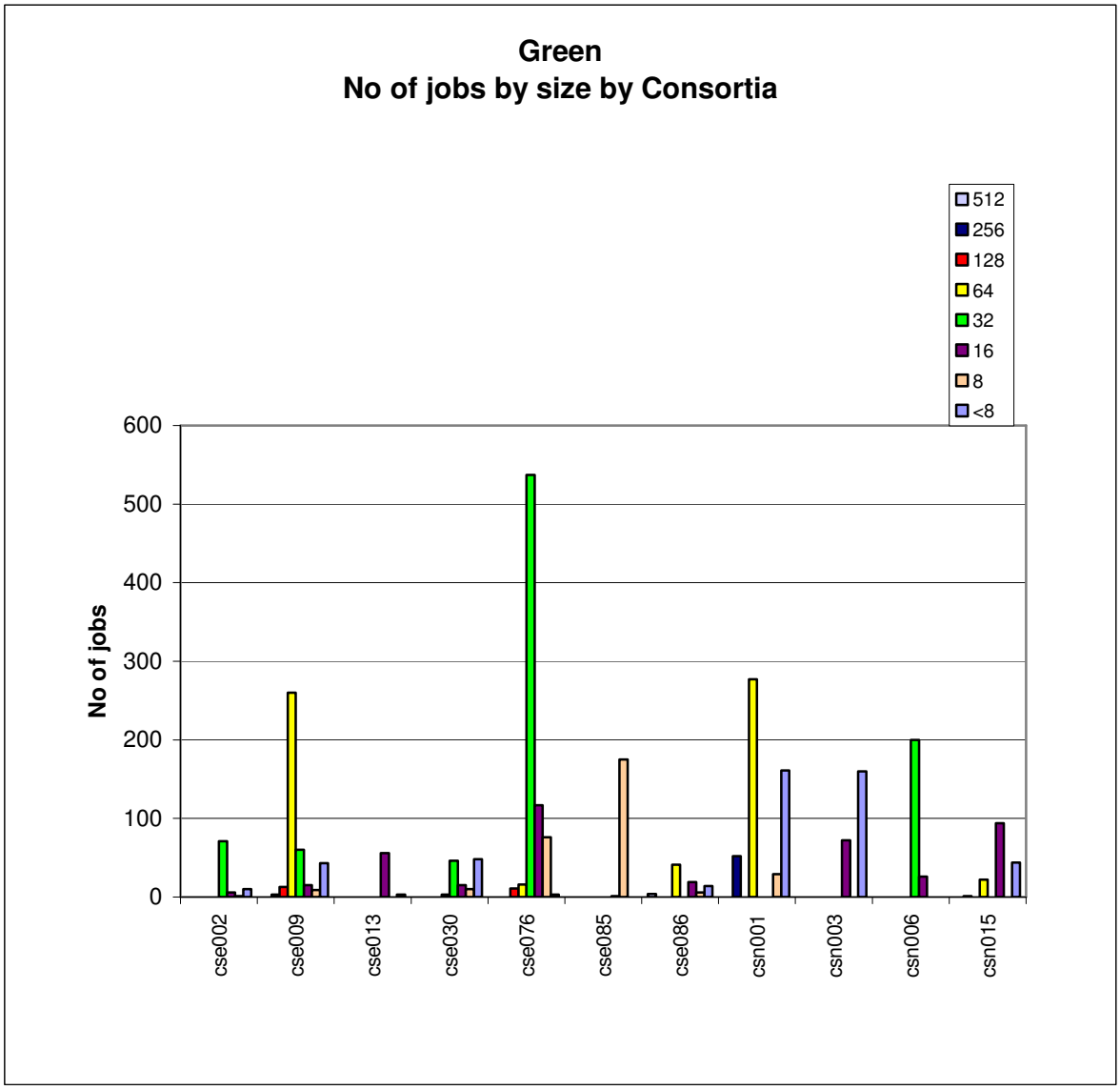
4.6 Processor Usage and Job Statistics Charts

Job statistics for Turing:



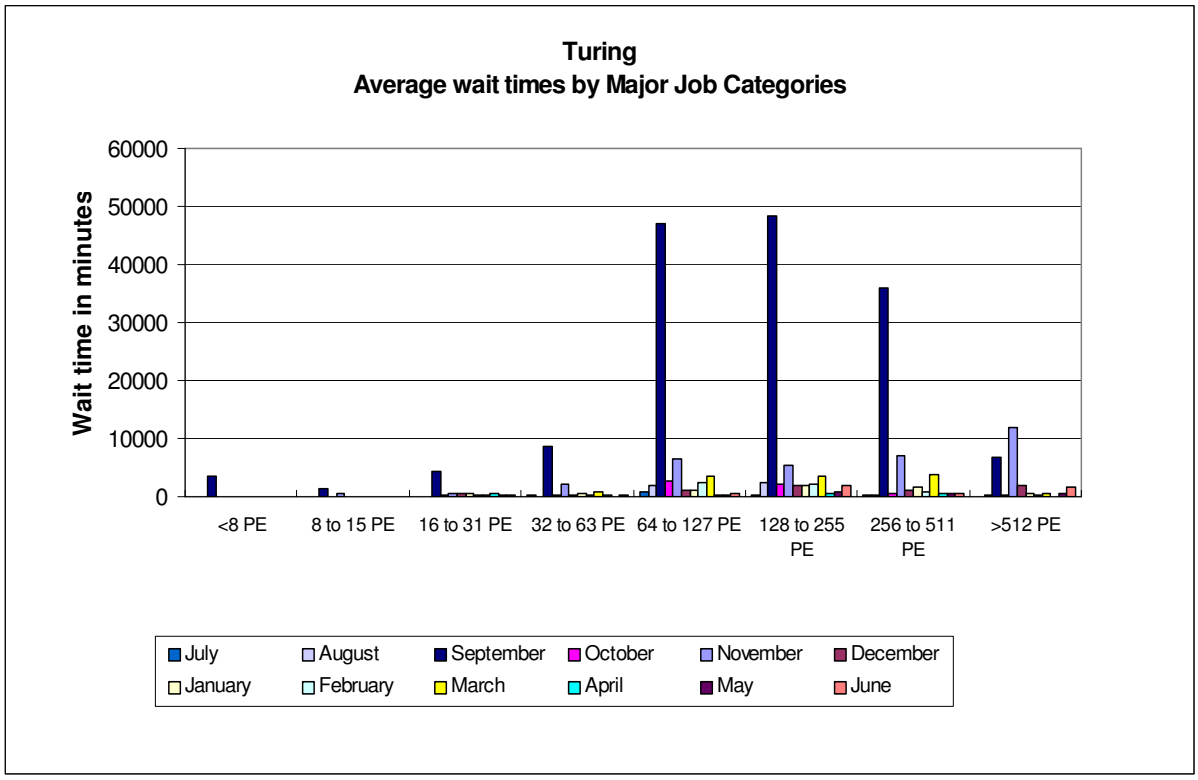
The above graph shows the number of jobs of the major sizes run in the period 1st to 30th June 2002.

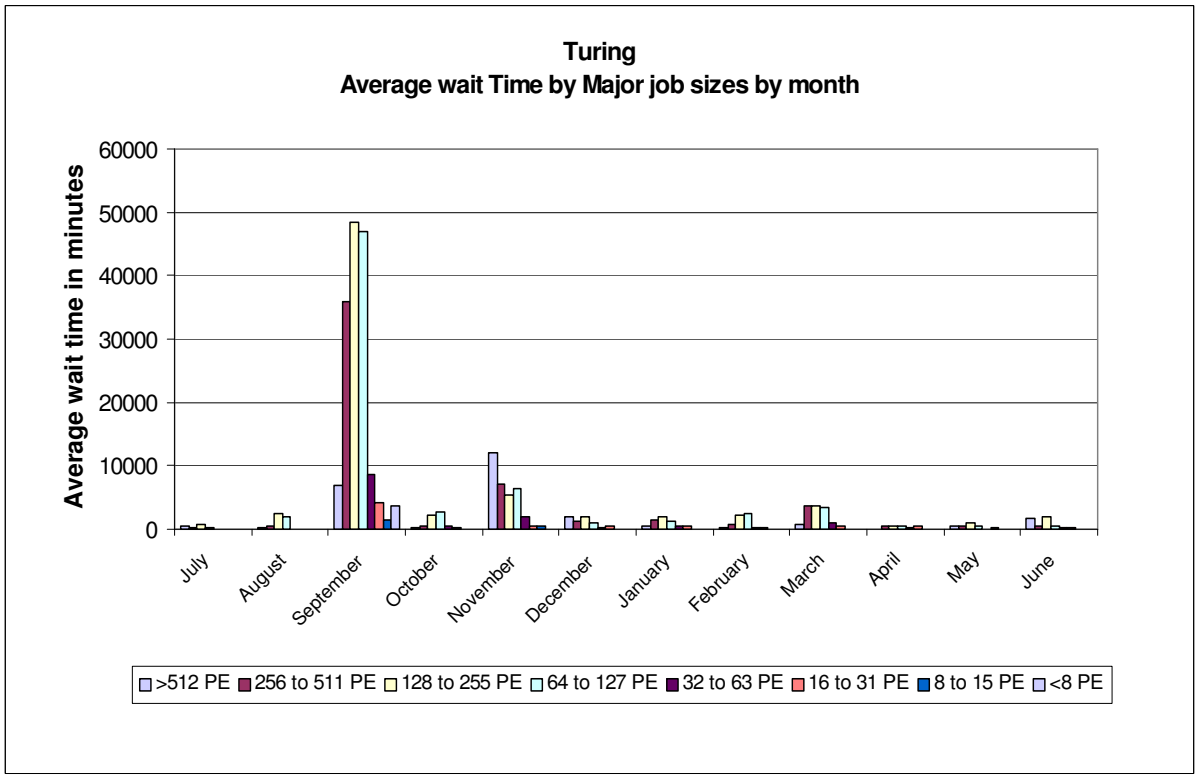
Job statistics for Green:



The above graph shows the number of jobs of the major sizes run in the period 1st to 30th June 2002.

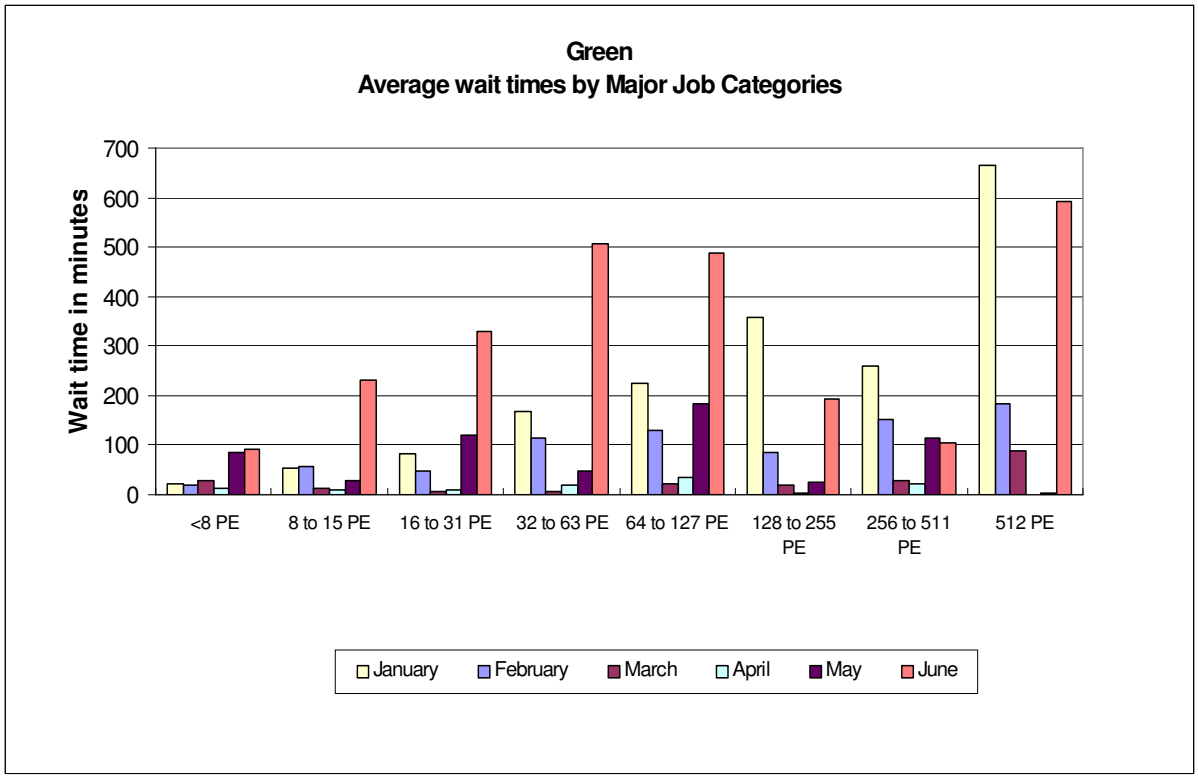
The next graph shows the wait times in minutes on Turing for the major categories of jobs.

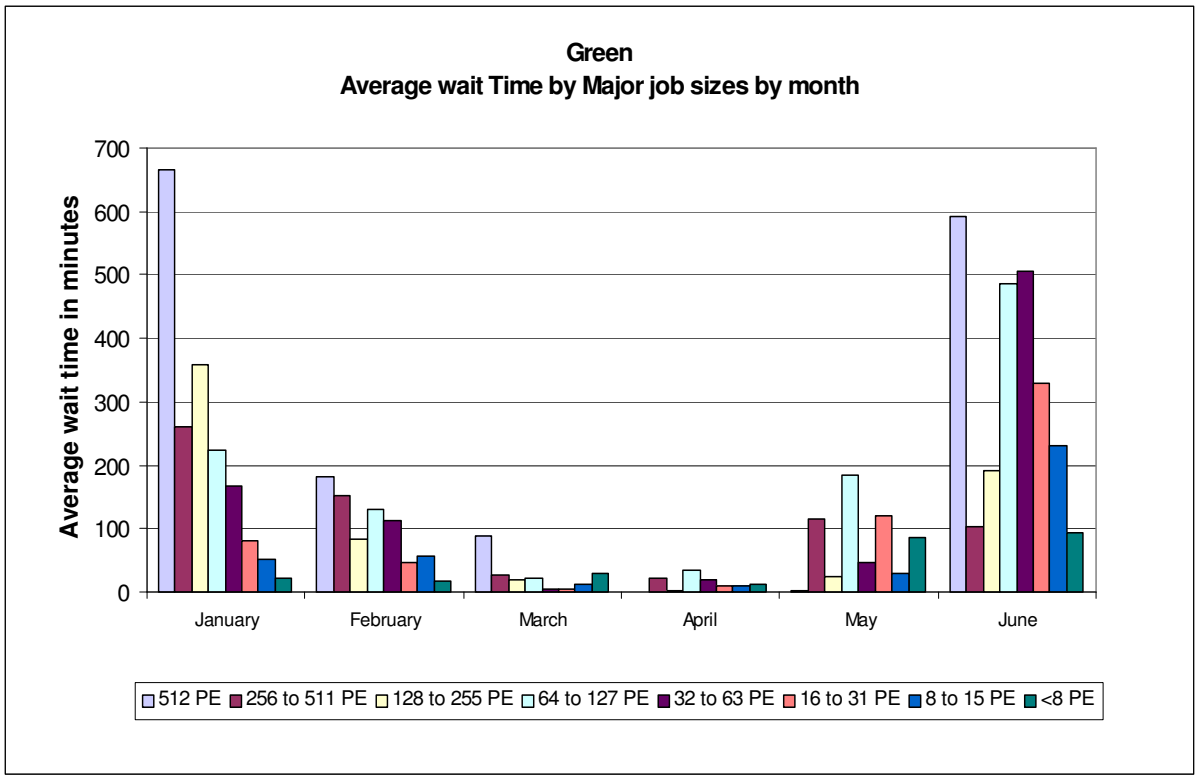




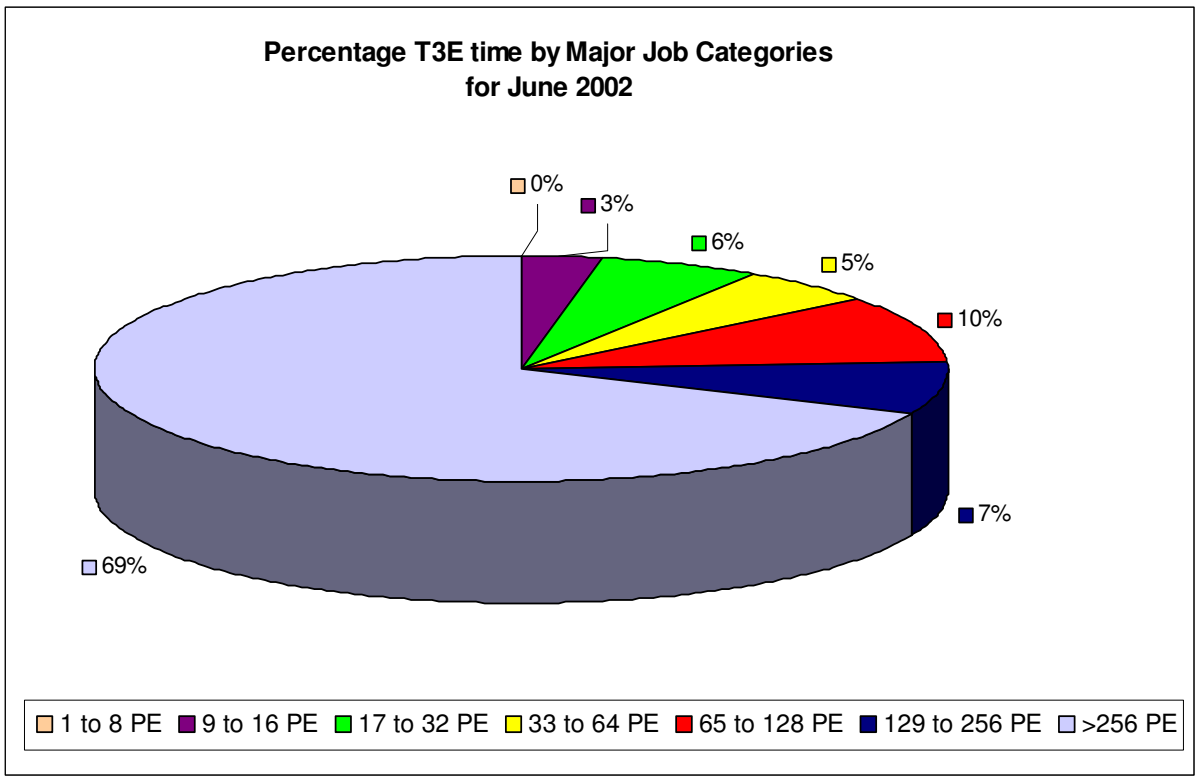
The chart above shows the average wait time trend on Turing over the last 12 months. Wait times for all jobs have continued to stay low now that Green is in full production usage as a 512 PE machine.

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

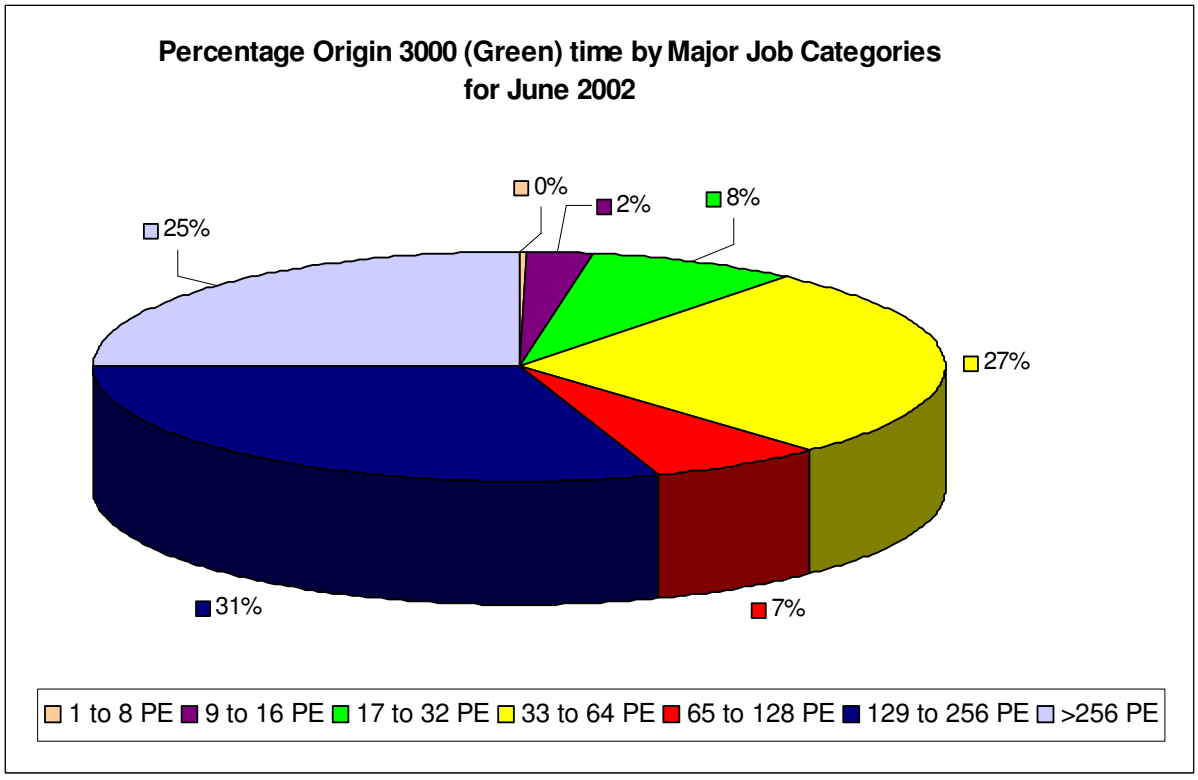




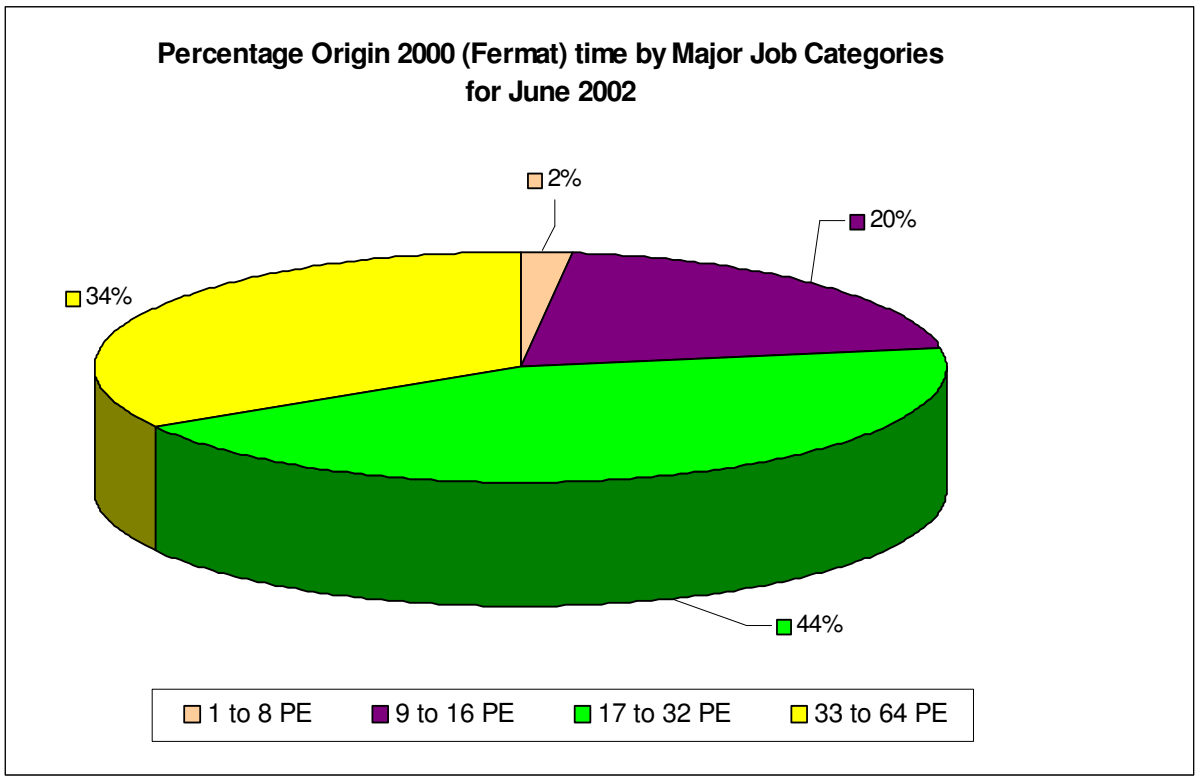
The chart above shows the average wait time trend on Green for June.



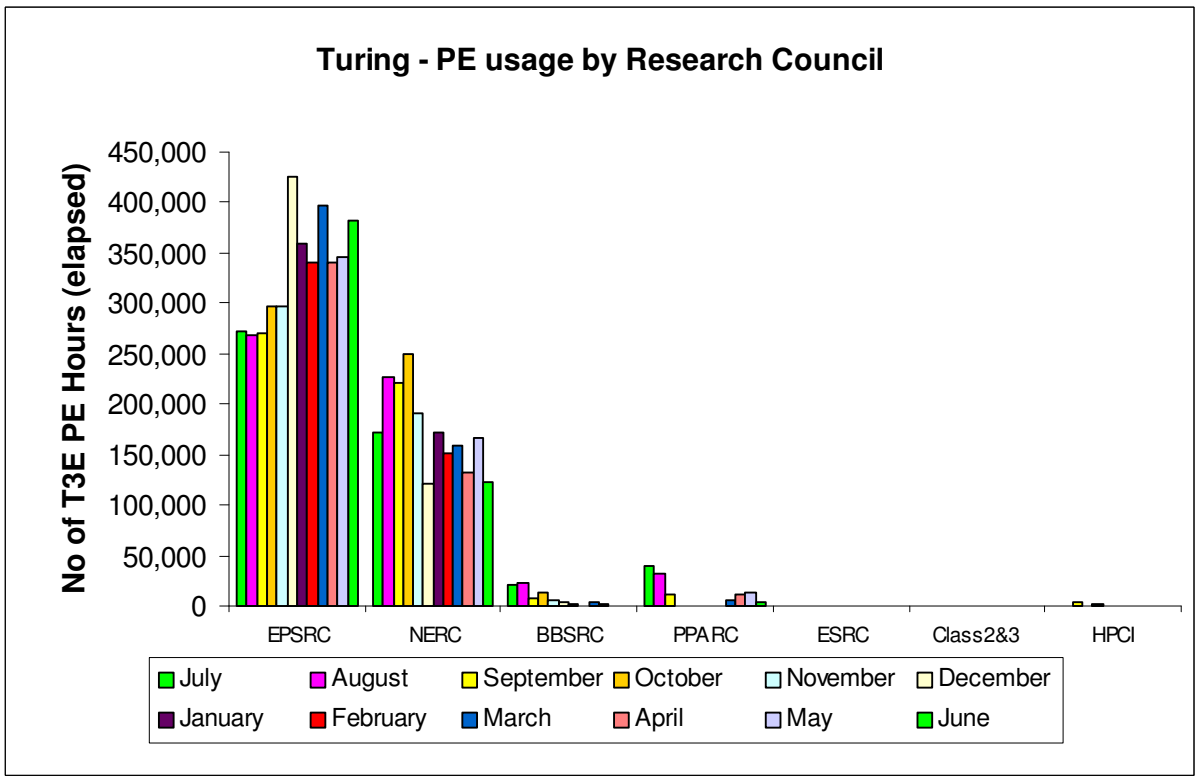
The largest proportion of the workload on Turing, 86%, was greater than 64 PEs in size.



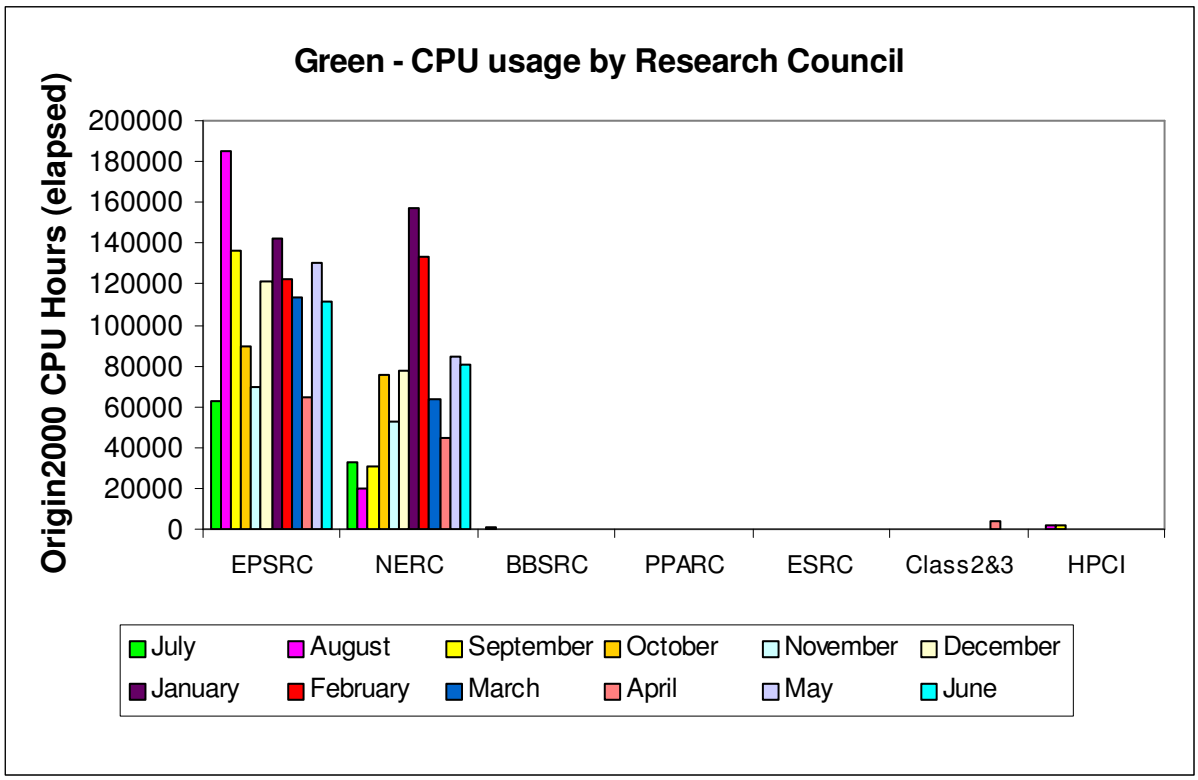
The major allocation of the workload on Green, 73%, was greater than 64 PEs in size.



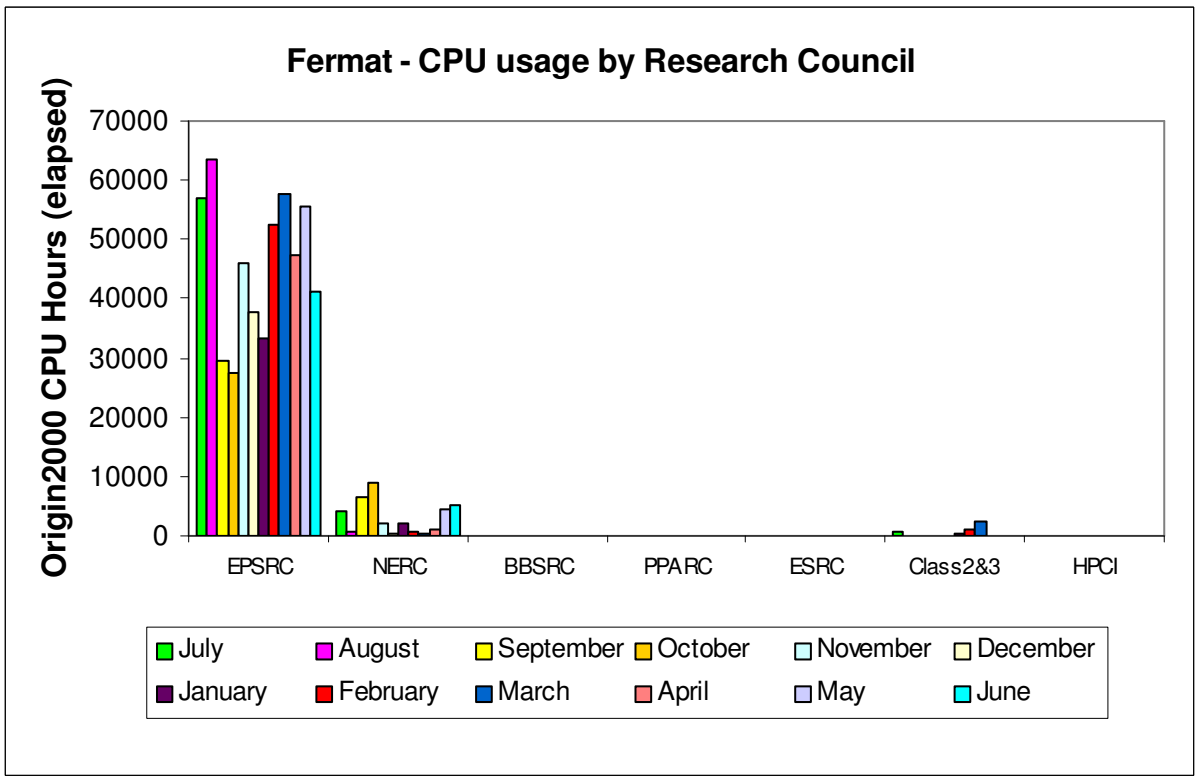
The spread of work across Fermat for June was reasonably varied



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



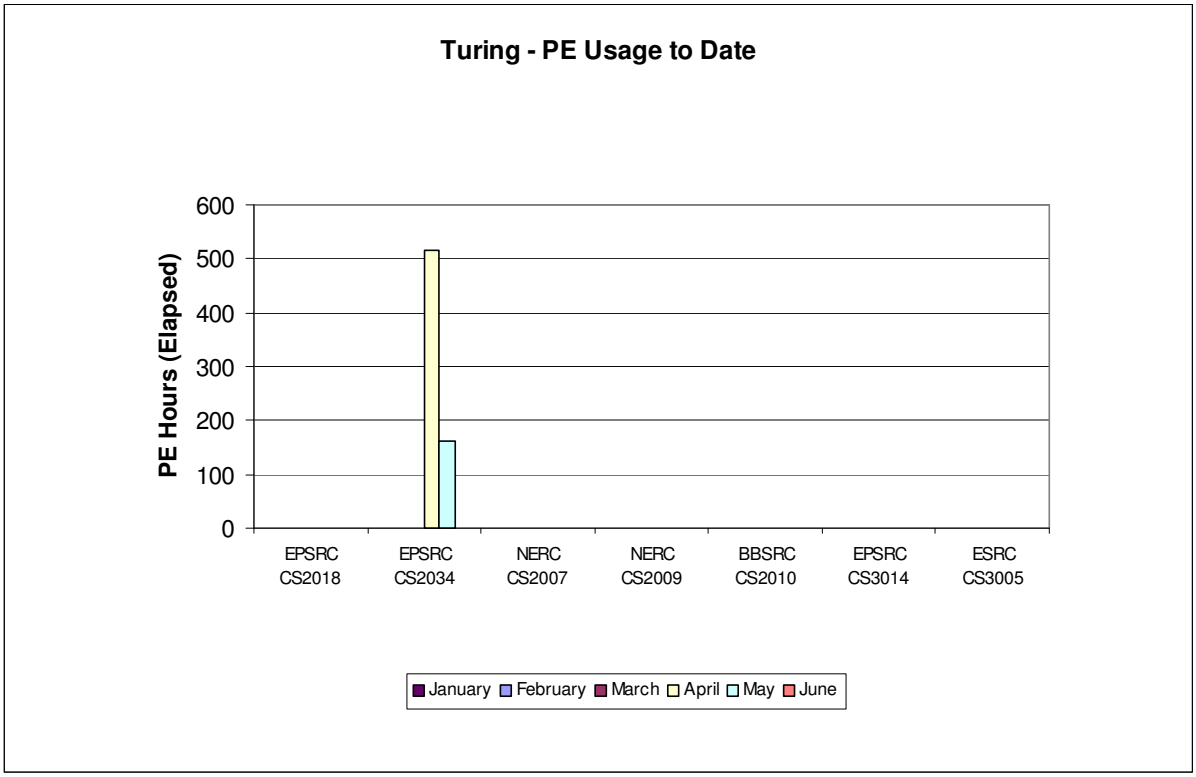
The above chart shows Green CPU usage by Research Council during the past 12 months of service.



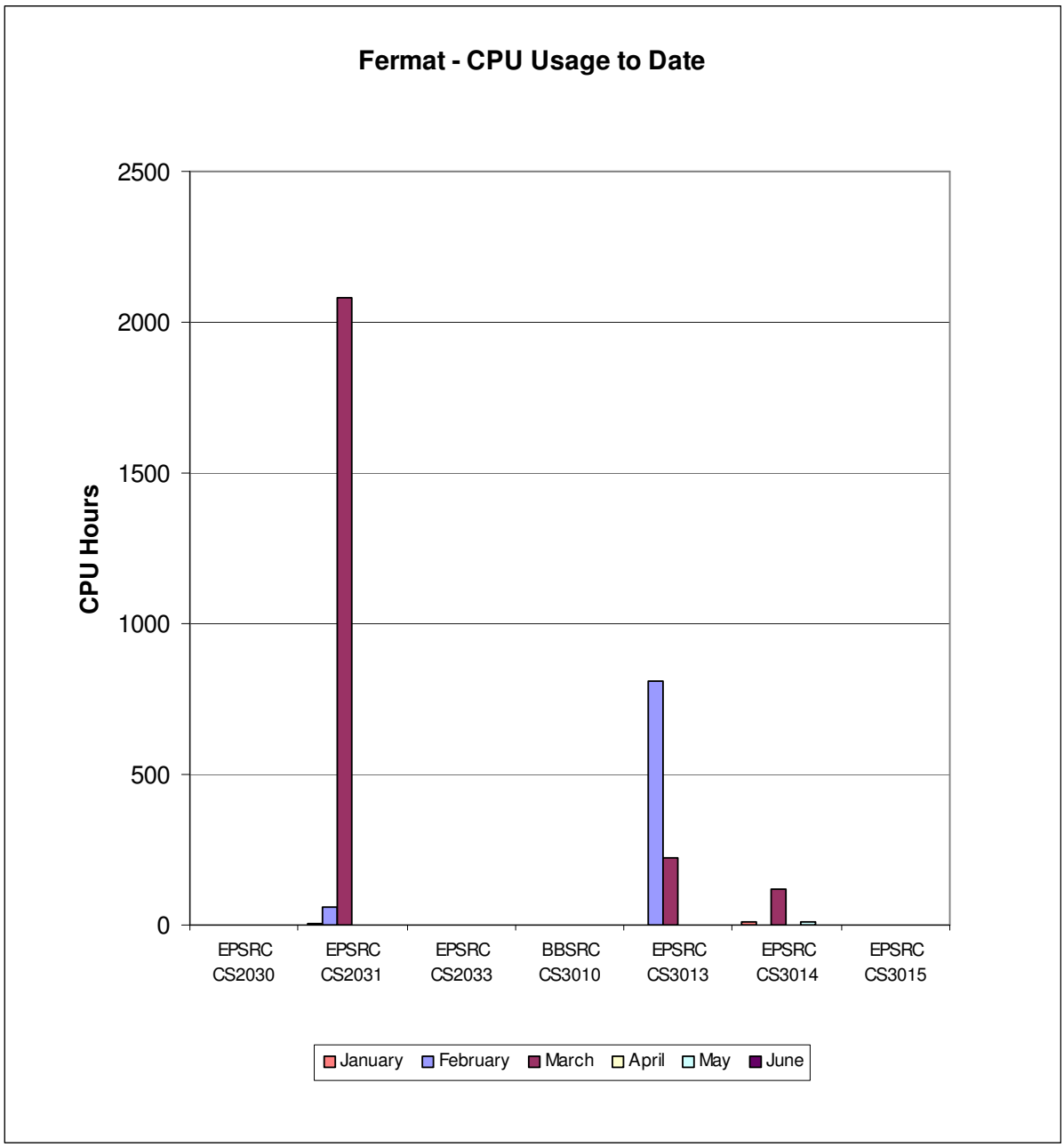
Origin 2000 CPU usage is shown by Research Council during the past 12 months of service in the above chart.

4.7 Class 2 & 3 Usage Charts

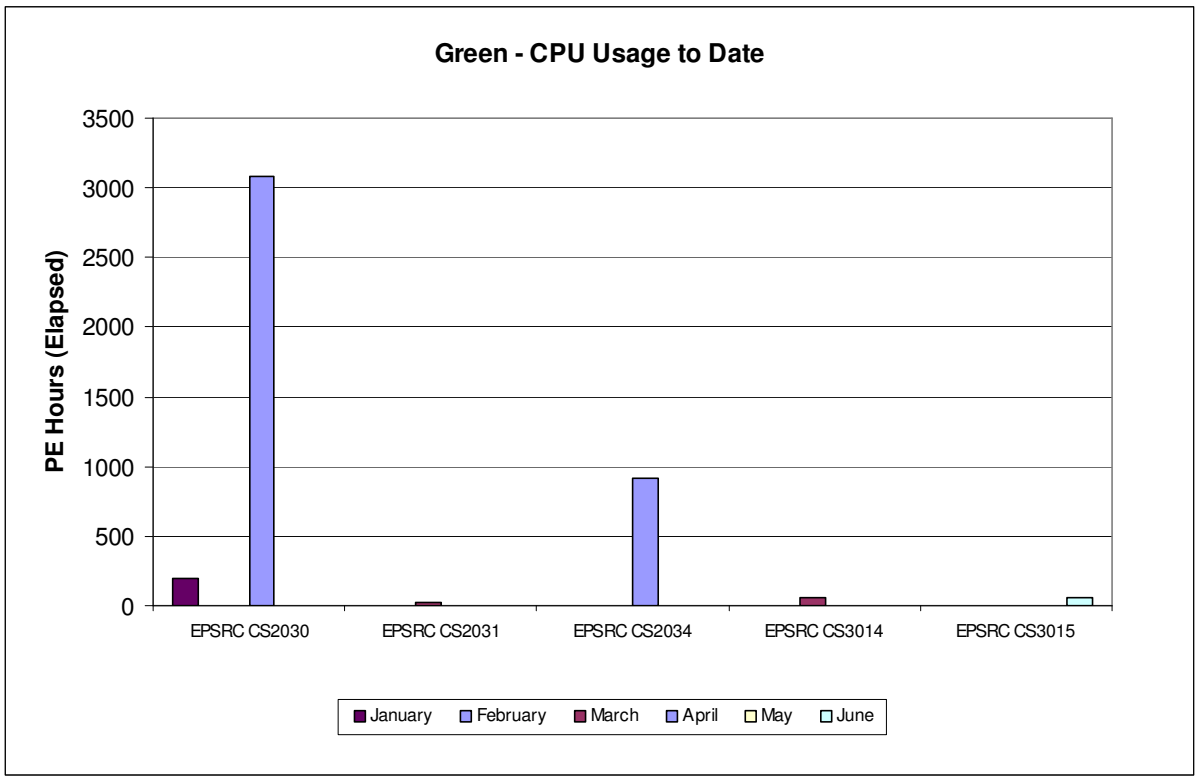
The next series of charts show the usage of the system by the class 2 & class 3 users. The usage is shown by project and identifies the Research Council of the individual projects.



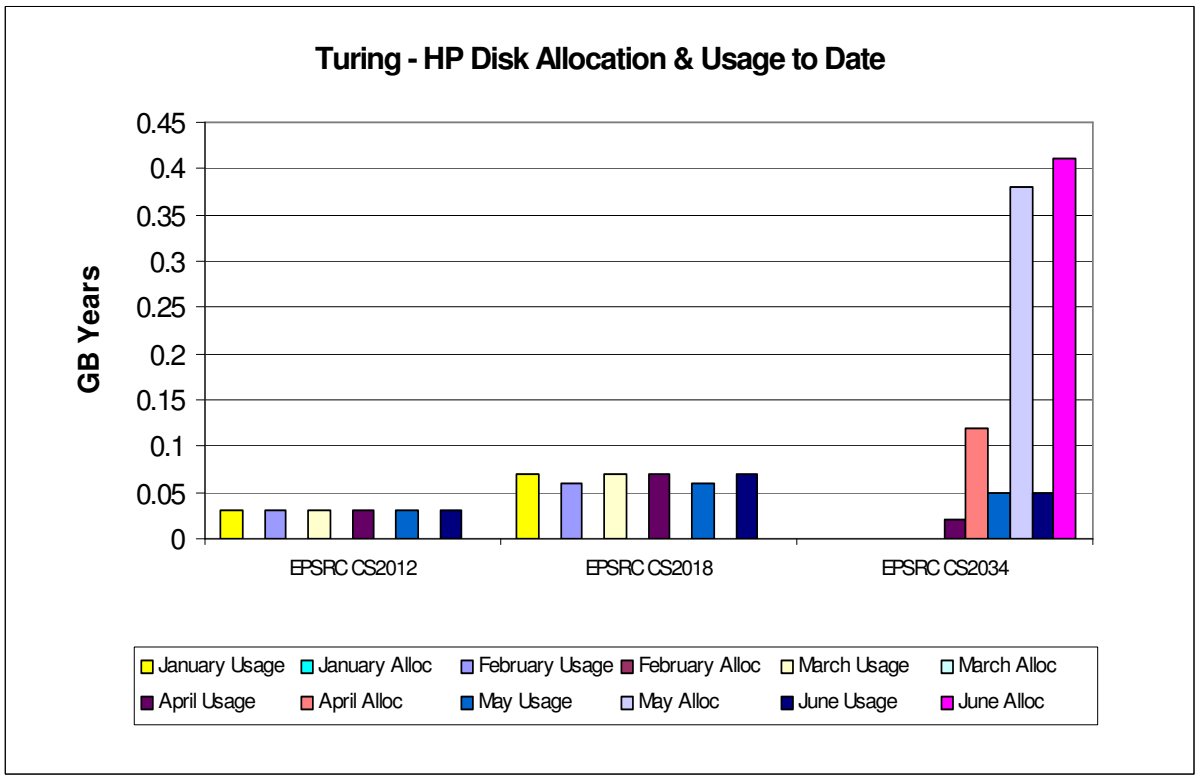
The above chart shows the most significant PE usage of the Turing system by class 2 and class 3 users.



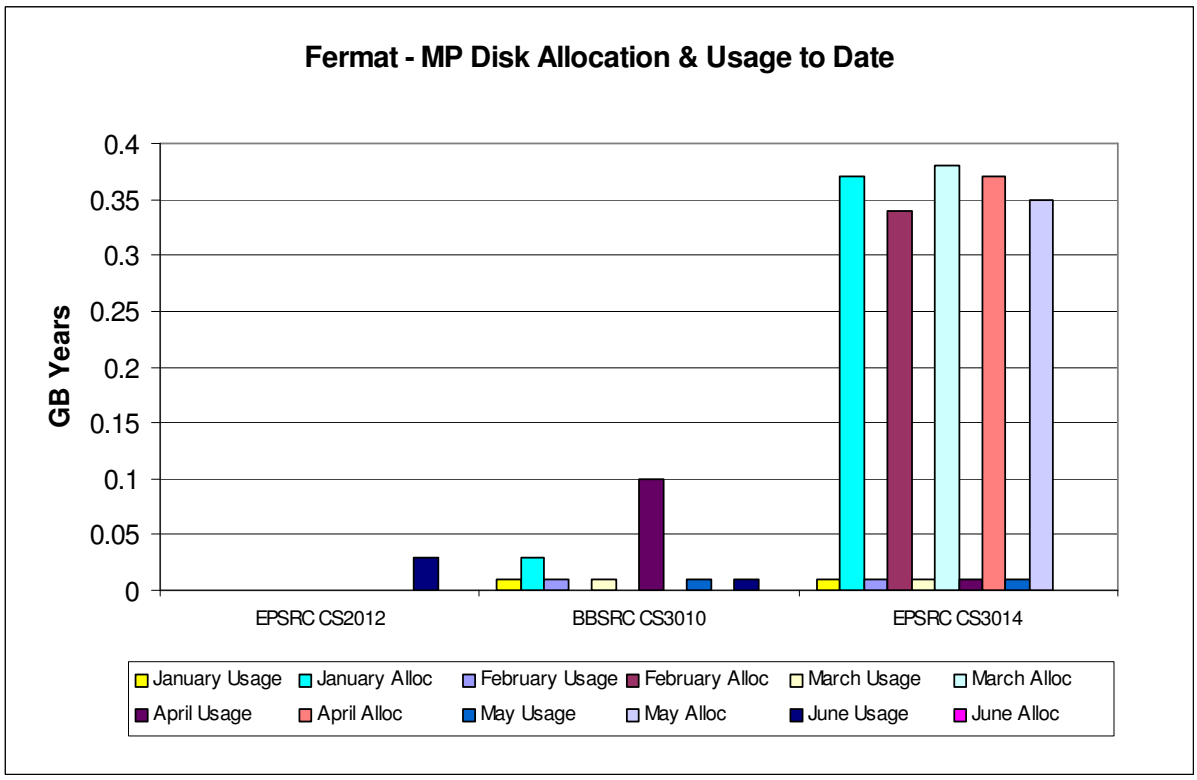
The above chart shows the CPU usage of the Fermat system by class 2 and class 3 users.



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.

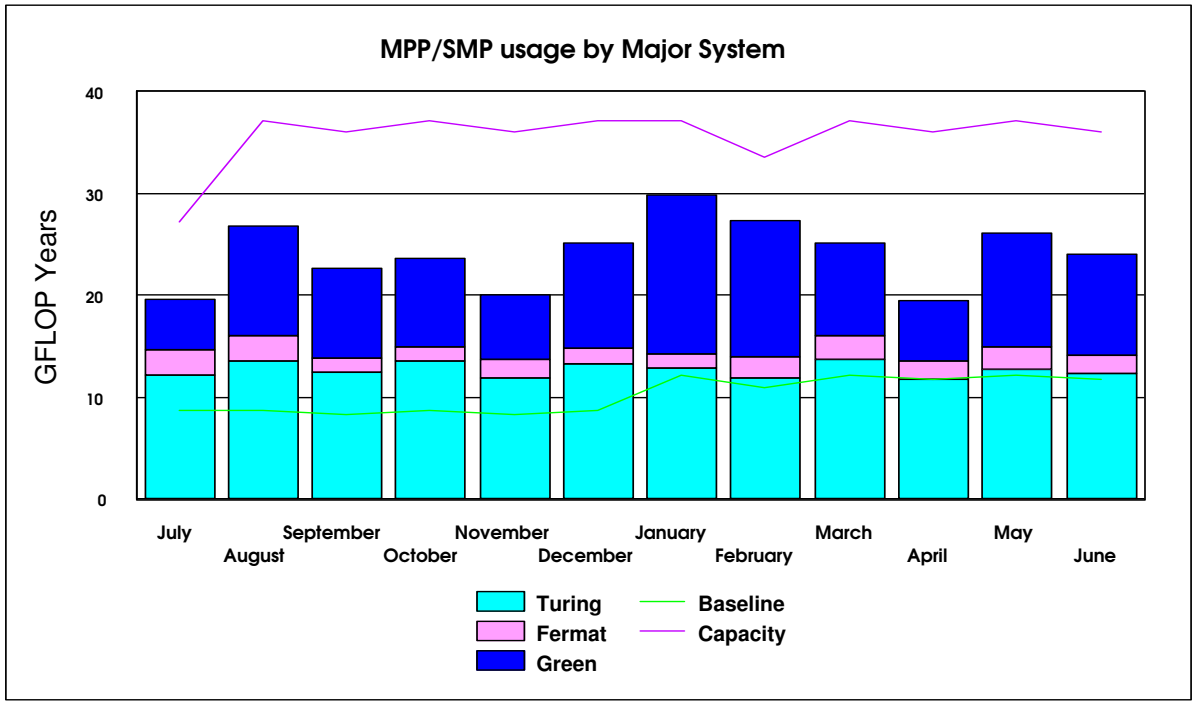


The above chart shows the most significant disk allocations on the Fermat system for class 2 and class 3 users. There is currently no HSM usage by class 2 and class 3 users.

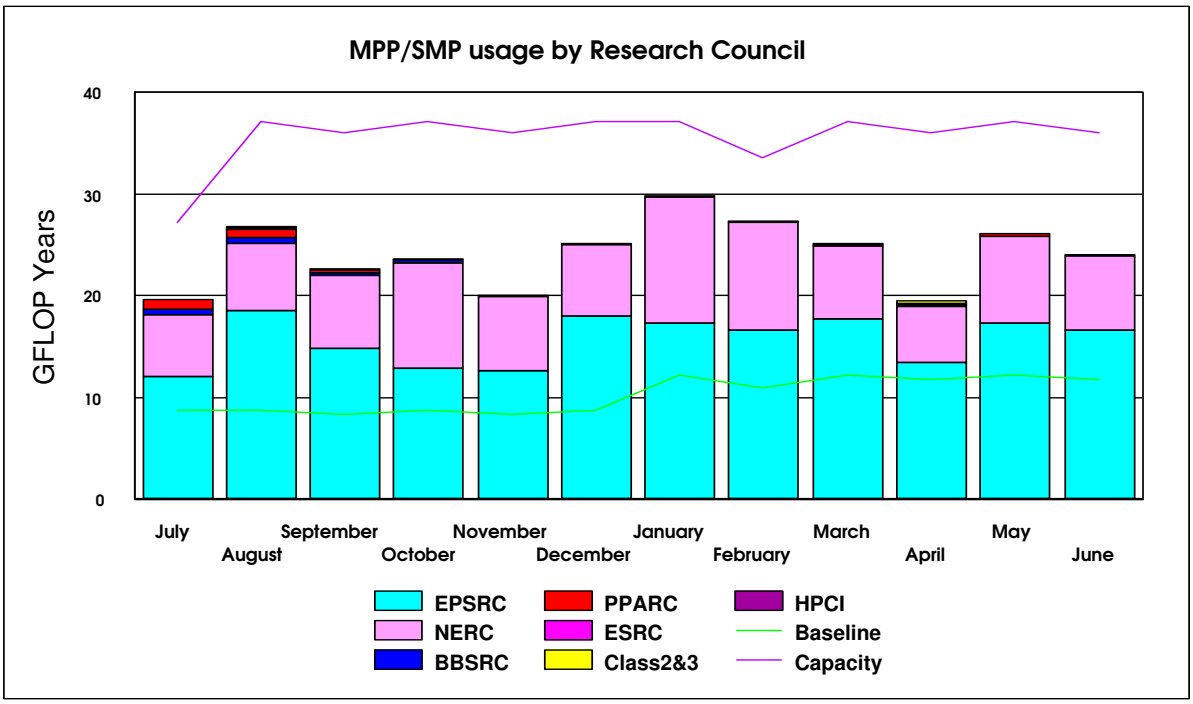
4.8 Charts of Historical Usage

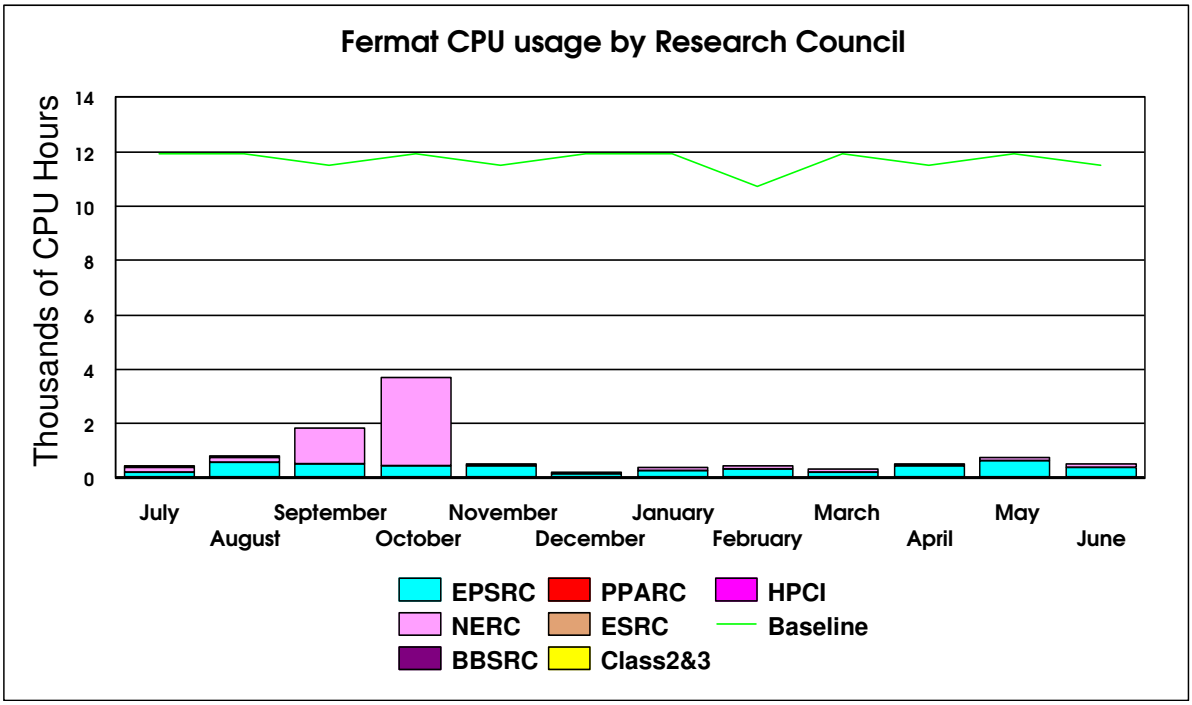
In all the Usage Charts, the baseline varies dependant on the number of days in each month, within a 365-day year.

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.



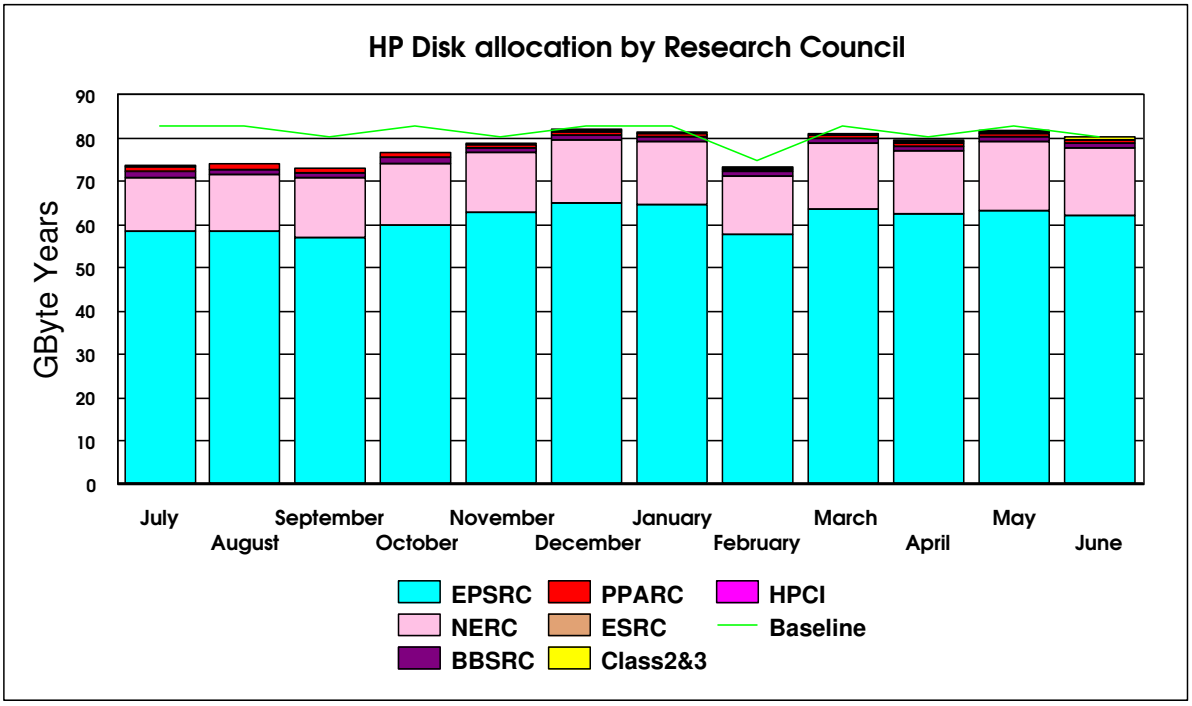
The graph below shows the historic SMP/MPP usage on the major systems.



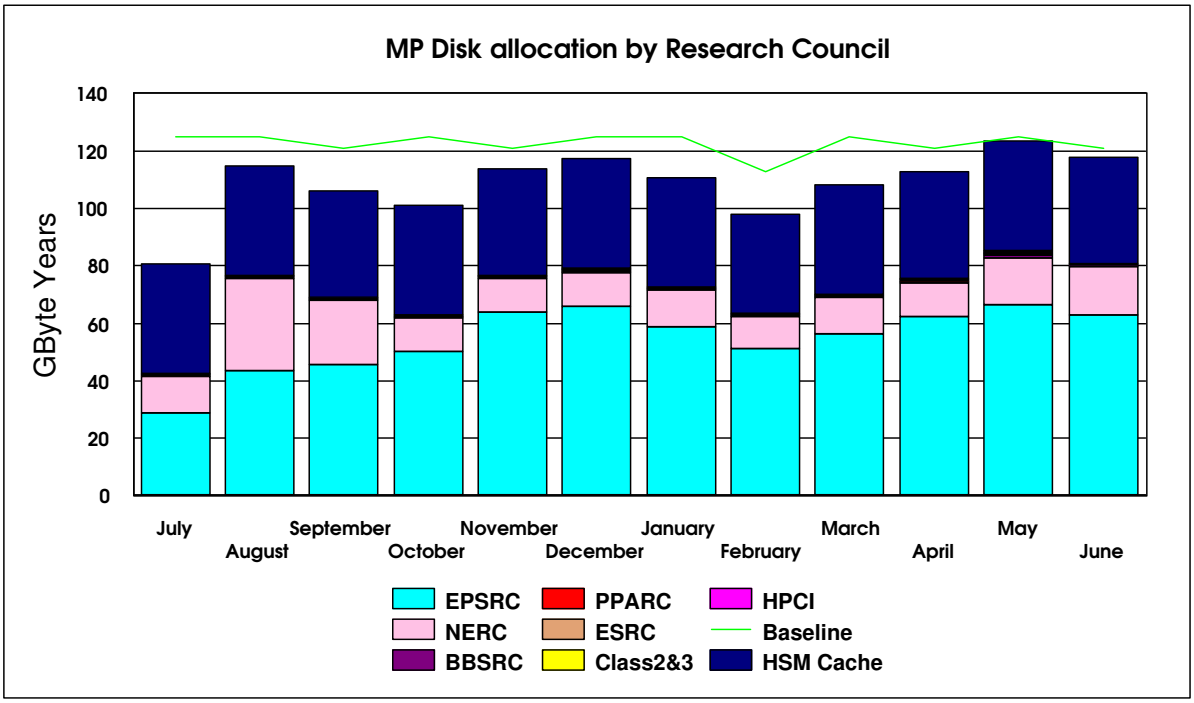


The above graph shows the historic interactive usage of the ‘Baseline’ Fermat system (equivalent to 16@250Mhz CPUs)

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

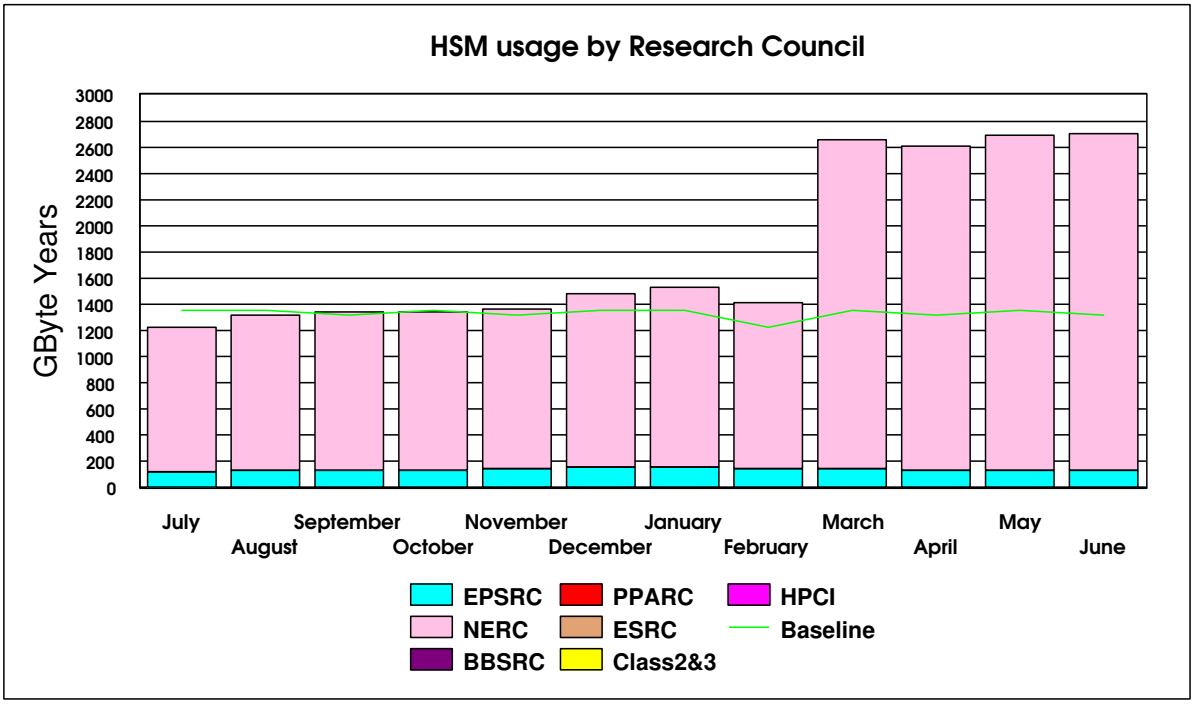


The preceding graph illustrates the historic allocation of the High Performance Disk on Turing.

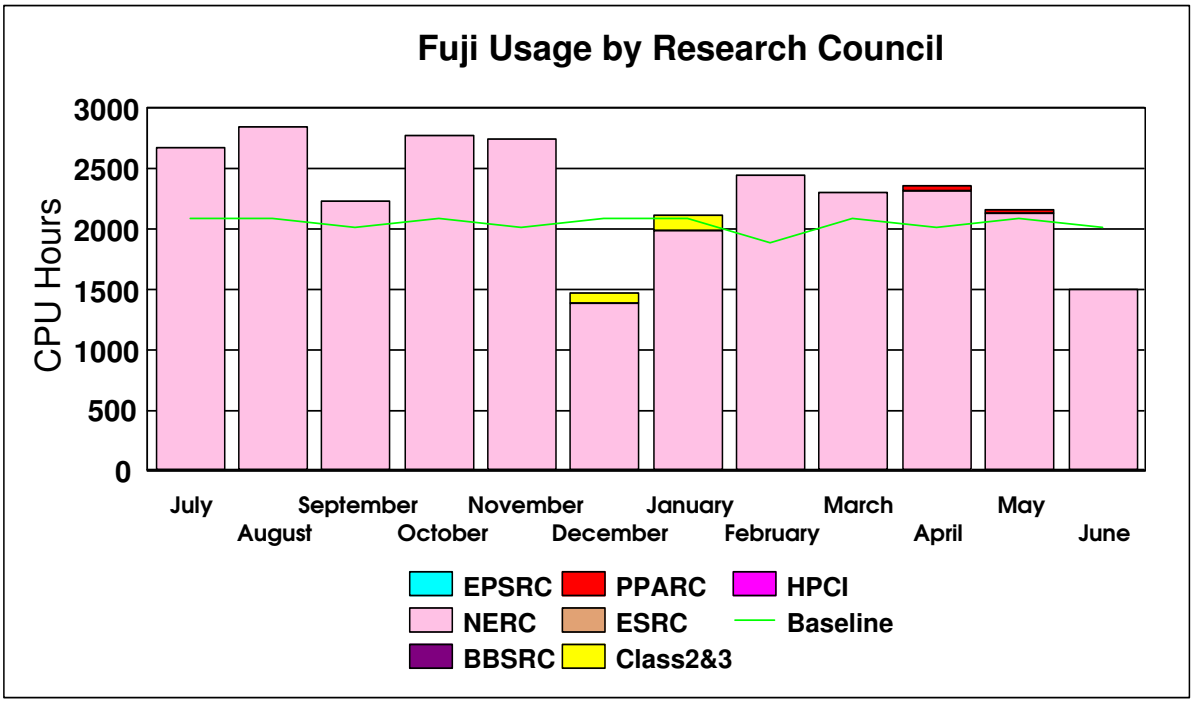


The graph above illustrates the historic allocation of the Medium Performance Disk on Fermat.

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 below 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 June.

During the month, 86% of the jobs run on Turing were larger than 64 PEs in size, and 73% 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 hardware issues during June, causing a series of brief outages. Two hardware components have been isolated from the system and are now undergoing thorough diagnostic tests.

5.3 Plans

The installation of the SAN is now within its stabilising period, with the plan to go live at the end of the month well within sight.

6. Conclusion

June 2002 saw the overall CPARS rating at Green with the baseline being exceeded by 104%.

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 June 2002

Appendix 2 contains the Percentage shares by Consortium for June 2002

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

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

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

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

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

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

Appendix 2

Percentage PE time per consortia for Turing in June 2002

Consortia	% Machine Time
CSE002	9.22
CSE003	0.00
CSE021	0.00
CSE023	0.00
CSE025	0.00
CSE030	2.82
CSE055	1.34
CSE057	0.00
CSE084	0.00
CSE086	16.93
CSE004	0.00
CSE013	15.38
CSE014	0.00
CSE016	0.00
CSE027	0.00
CSE040	0.00
CSE041	0.00
CSE043	8.12
CSE052	1.49
CSE053	0.23
CSE056	0.00
CSE063	1.61
CSE064	0.22
CSE085	6.01
CSE008	0.00
CSE009	10.29
CSE024	0.00
CSE033	0.00
CSE035	0.00
CSE020	0.00
CSE066	0.26
CSE075	0.00
CSE076	1.12
CSE034	0.00
CSE036	0.00
HPCI Southampton	0.00
HPCI Daresbury	0.00
HPCI Edinburgh	0.00
UKHEC	0.00
CSN001	0.00
CSN003	22.24
CSN005	0.00
CSN006	1.77
CSN007	0.00
CSN010	0.00
CSN012	0.00
CSN015	0.02
CSN017	0.00
CSN036	0.00
CSN044	0.00
CSB001	0.00
CSB002	0.04
CSP004	0.88
CS2018	0.00
CS2033	0.00
CS2034	0.00
CS3001	0.00
CS3002	0.00
CS3005	0.00
CS3010	0.00

Percentage CPU time per consortia for Fermat in June 2002

Consortia	% Machine Time
CSE002	29.16
CSE003	0.00
CSE021	0.00
CSE023	0.00
CSE025	0.00
CSE030	0.46
CSE055	0.00
CSE057	0.00
CSE084	2.89
CSE086	2.09
CSE004	0.00
CSE013	8.52
CSE014	0.00
CSE016	0.00
CSE027	0.00
CSE040	0.00
CSE041	0.00
CSE043	0.00
CSE052	0.00
CSE053	0.00
CSE056	0.01
CSE063	0.00
CSE064	0.00
CSE085	0.06
CSE008	0.00
CSE009	1.99
CSE024	0.00
CSE033	0.00
CSE035	0.00
CSE020	0.00
CSE066	0.00
CSE075	0.05
CSE076	63.37
CSE034	0.00
CSE036	0.00
HPCI Southampton	0.00
HPCI Daresbury	0.00
HPCI Edinburgh	0.00
UKHEC	0.00
CSN001	5.67
CSN003	0.44
CSN005	0.00
CSN006	0.00
CSN007	0.00
CSN010	0.00
CSN012	0.00
CSN015	0.01
CSN017	0.00
CSN036	0.00
CSN044	0.00
CSB001	0.00
CSB002	0.00
CSP004	0.00
CS2018	0.00
CS2033	0.00
CS2033	0.00
CS3001	0.00
CS3002	0.00
CS3005	0.00
CS3010	0.00

Appendix 2

Percentage CPU time per consortia for Green in June 2002

Consortia	% Machine Time
CSE002	4.77
CSE003	0.00
CSE030	4.48
CSE084	0.00
CSE086	11.71
CSE013	2.02
CSE085	0.98
CSE009	6.66
CSE075	0.06
CSE076	27.26
CSN001	33.60
CSN003	4.71
CSN006	1.98
CSN015	1.55
CSN017	0.10
CS3015	0.03

Appendix 2

Percentage disc allocation by Consortia for Turing in June 2002

Consortia	%Allocation
CSE002	22.51
CSE003	1.49
CSE021	0.00
CSE023	0.00
CSE025	0.00
CSE030	20.37
CSE055	0.10
CSE057	0.04
CSE084	1.23
CSE086	5.08
CSE004	0.00
CSE013	1.28
CSE014	0.00
CSE016	0.00
CSE027	0.00
CSE040	0.02
CSE041	0.05
CSE043	0.05
CSE052	0.31
CSE053	0.10
CSE056	0.10
CSE063	1.02
CSE064	0.02
CSE085	15.36
CSE008	0.00
CSE009	5.43
CSE024	0.00
CSE033	0.00
CSE035	0.72
CSE019	0.00
CSE020	0.00
CSE066	0.27
CSE075	0.00
CSE076	0.10
CSE034	0.00
CSE036	0.02
HPCI Southampton	0.00
HPCI Daresbury	0.10
HPCI Edinburgh	0.10
UKHEC	0.10
CSN001	10.24
CSN003	2.96
CSN005	0.00
CSN006	5.12
CSN007	0.00
CSN010	0.00
CSN012	0.00
CSN015	0.20
CSN017	0.01
CSN036	1.02
CSB001	0.05
CSB002	1.33
CSP004	0.72
CS2018	0.00
CS2031	0.00
CS2034	0.51
CS3001	0.00
CS3002	0.00
CS3005	0.00
CS3010	0.00
CS3015	0.00

Percentage disc allocation by Consortia for Fermat in June 2002

Consortia	%Allocation
CSE002	8.37
CSE003	0.32
CSE021	0.00
CSE023	0.00
CSE025	0.00
CSE030	40.70
CSE055	0.00
CSE057	0.00
CSE084	2.03
CSE086	10.18
CSE004	0.00
CSE013	0.38
CSE014	0.00
CSE016	0.00
CSE027	0.00
CSE040	0.51
CSE041	0.10
CSE043	0.10
CSE052	0.00
CSE053	0.10
CSE056	0.10
CSE063	0.00
CSE064	0.00
CSE085	11.21
CSE008	0.00
CSE009	2.03
CSE024	0.00
CSE033	0.00
CSE035	0.00
CSE019	0.00
CSE020	0.00
CSE066	0.14
CSE075	1.02
CSE076	0.56
CSE034	0.00
CSE036	0.01
HPCI Southampton	0.00
HPCI Daresbury	0.05
HPCI Edinburgh	0.10
UKHEC	0.10
CSN001	15.29
CSN003	1.53
CSN005	0.00
CSN006	2.03
CSN007	0.00
CSN010	0.00
CSN012	0.00
CSN015	1.02
CSN017	0.10
CSN036	1.02
CSB001	0.00
CSB002	0.10
CSP004	0.51
CS2018	0.00
CS2031	0.00
CS2034	0.00
CS3001	0.00
CS3002	0.00
CS3005	0.00
CS3010	0.00
CS3015	0.21

Percentage usage of HSM by Consortium for June 2002

Consortium	% Usage
CSE002	0.37
CSE003	0.00
CSE030	1.54
CSE086	0.05
CSE013	0.03
CSE041	0.28
CSE043	0.00
CSE063	0.00
CSE085	2.61
CSE035	0.02
CSN001	26.56
CSN003	60.15
CSN006	0.01
CSN015	3.26
CSN036	5.03
CSN044	0.03

Appendix 3

Percentage PE usage on Turing by Research Council for June 2002	
Research Council	**% Usage**
EPSRC	75.05
HPCI	0.00
NERC	24.04
BBSRC	0.04
ESRC	0.00
PPARC	0.88

Percentage CPU usage on Fermat by Research Council for June 2002	
Research Council	**% Usage**
EPSRC	88.58
HPCI	0.00
NERC	11.41
BBSRC	0.00
ESRC	0.00
PPARC	0.00

Percentage CPU usage on Green by Research Council for June 2002	
Research Council	**% Usage**
EPSRC	58.06
HPCI	0.00
NERC	41.93
BBSRC	0.00
ESRC	0.00
PPARC	0.00

Percentage Disc allocated on Turing by Research Council for June 2002	
Research Council	**% Allocated**
EPSRC	78.03
HPCI	0.31
NERC	19.57
BBSRC	1.38
ESRC	0.00
PPARC	0.72

Percentage Disc allocated on Fermat by Research Council for June 2002	
Research Council	**% Allocated**
EPSRC	78.13
HPCI	0.26
NERC	21.00
BBSRC	0.10
ESRC	0.00
PPARC	0.51

Percentage HSM usage by Research Council for June 2002	
Research Council	**% usage**
EPSRC	4.93
HPCI	0
NERC	95.04
BBSRC	0
ESRC	0
PPARC	0

Appendix 4

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 June 2002	Total Application Support from July 2000	Optimisation Support for June 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 Aspley (Leschziner)	Validation of Turbulence Models	Keith Taylor								

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	12	38	41	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 Lander (Mobbs)	Flow over Complex terrain	Kevin Roy	2					-	5	-
Csn011	Dr Ed Dicks (Thorpe)	Exchange of Polluted Air									
Csn012	Prof Tennyson	fuji user	Ben Jesson								

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/Fumie	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 Stairs (Lyne)	Millisecond Pulsars	John Brooke	0.25					0.25	0	-
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	Prof G J Morgan	Spin Diffusion in Magnetic Multilayers	-	-						1	1
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 June 2002.

cs2034 De Souza
Last Trade: Thu Apr 18 09:01:15 2002
680.0 of 1264.9 PEHour MPP PE CPU (16.4 of 30.6 G.S.T), 53.8%
1.0 of 0.1 GByteYear HP Disk (7.4 of 0.9 G.S.T), 858.0%
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%
project cs2034 has used 71.7 of 100.0 Generic Service Tokens, 71.7%

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cs2036 Hayhurst
Last Trade: Mon Jun 24 11:12:45 2002
0.0 of 2463.2 Hour SMP CPU (0.0 of 95.7 G.S.T), 0.0%
0.0 of 1.0 GByteYear MP Disk (0.0 of 4.3 G.S.T), 0.0%
project cs2036 has used 0.0 of 100.0 Generic Service Tokens, 0.0%

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cs3015 Hampshire
Last Trade: Thu Jun 13 16:23:25 2002
0.7 of 7.4 Hour SMP CPU (0.0 of 0.3 G.S.T), 9.8%
0.2 of 2.0 GByteYear MP Disk (1.0 of 8.6 G.S.T), 11.8%
55.5 of 7296.1 Hour Green CPU (2.9 of 381.2 G.S.T), 0.8%
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%
project cs3015 has used 3.9 of 499.4 Generic Service Tokens, 0.8%

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cs3016 Petchey
Last Trade: Fri May 10 15:21:41 2002
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%
project cs3016 has used 0.0 of 447.0 Generic Service Tokens, 0.0%

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csb001 27/B13508 Goodfellow
Last Trade: re-enabled
148619.6 of 250989.4 PEHour MPP PE CPU (3593.4 of 6068.6 G.S.T), 59.2%
7.8 of 48.1 GByteYear HP Disk (60.2 of 372.5 G.S.T), 16.2%
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%
project csb001 has used 3927.0 of 7431.8 Generic Service Tokens, 52.8%

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csb002 86/B10059 Danson
Last Trade: Wed Mar 13 14:05:19 2002
85241.4 of 89670.6 PEHour MPP PE CPU (2061.0 of 2168.1 G.S.T), 95.1%
38.2 of 40.9 GByteYear HP Disk (295.6 of 316.5 G.S.T), 93.4%
0.0 of 0.0 Hour SMP CPU (0.0 of 0.0 G.S.T)
2.9 of 2.9 GByteYear MP Disk (12.3 of 12.3 G.S.T), 100.5%
project csb002 has used 2369.0 of 2496.8 Generic Service Tokens, 94.9%

CSE001 - Admin users
Last Trade: Fri Oct 8 15:16:30 1999
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), 66.9%
project cse001 has used 0.5 of 1.0 Generic Service Tokens, 46.8%

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cse002 GR/N02337 Bird
Last Trade: Wed May 15 09:38:35 2002
2667832.0 of 3288375.1 PEHour MPP PE CPU (64504.8 of 79508.7 G.S.T), 81.1%
612.4 of 1322.0 GByteYear HP Disk (4741.3 of 10235.4 G.S.T), 46.3%
81287.4 of 99774.9 Hour SMP CPU (3158.1 of 3876.4 G.S.T), 81.5%
230.9 of 1222.0 GByteYear MP Disk (990.5 of 5242.0 G.S.T), 18.9%
296.1 of 414.5 GByteYear HSM/Tape (184.6 of 258.4 G.S.T), 71.4%
145232.9 of 200164.6 Hour Green CPU (7588.7 of 10459.0 G.S.T), 72.6%
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%
project cse002 has used 85207.2 of 113919.7 Generic Service Tokens, 74.8%

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cse002 Daresbury
Last Trade: never
351983.9 of 586480.0 PEHour MPP PE CPU (8510.5 of 14180.3 G.S.T), 60.0%
113.2 of 200.0 GByteYear HP Disk (876.7 of 1548.5 G.S.T), 56.6%
8422.9 of 8550.0 Hour SMP CPU (327.2 of 332.2 G.S.T), 98.5%
28.8 of 48.9 GByteYear MP Disk (123.4 of 209.8 G.S.T), 58.8%
67.2 of 106.0 GByteYear HSM/Tape (41.9 of 66.1 G.S.T), 63.4%
1947.7 of 2000.0 Hour Green CPU (101.8 of 104.5 G.S.T), 97.4%
subproject cse002a has used 9981.5 of 16441.3 Generic Service Tokens, 60.7%

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cse002 Belfast
Last Trade: never
304818.0 of 343170.0 PEHour MPP PE CPU (7370.1 of 8297.4 G.S.T), 88.8%
68.9 of 75.0 GByteYear HP Disk (533.4 of 580.7 G.S.T), 91.9%
19555.1 of 20446.0 Hour SMP CPU (759.7 of 794.4 G.S.T), 95.6%
5.7 of 44.9 GByteYear MP Disk (24.4 of 192.6 G.S.T), 12.7%
0.0 of 3.0 GByteYear HSM/Tape (0.0 of 1.8 G.S.T), 0.0%
subproject cse002b has used 8687.6 of 9866.9 Generic Service Tokens, 88.0%

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cse002 Cambridge - Matsci
Last Trade: never
330042.9 of 331396.0 PEHour MPP PE CPU (7980.0 of 8012.7 G.S.T), 99.6%
42.6 of 54.4 GByteYear HP Disk (329.8 of 421.2 G.S.T), 78.3%
0.0 of 2500.0 Hour SMP CPU (0.0 of 97.1 G.S.T), 0.0%
21.1 of 50.4 GByteYear MP Disk (90.4 of 216.2 G.S.T), 41.8%
9.1 of 52.0 GByteYear HSM/Tape (5.7 of 32.4 G.S.T), 17.5%
subproject cse002c has used 8405.9 of 8779.6 Generic Service Tokens, 95.7%

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cse002 Cambridge - Physics
Last Trade: never
66868.3 of 93085.0 PEHour MPP PE CPU (1616.8 of 2250.7 G.S.T), 71.8%
8.2 of 26.7 GByteYear HP Disk (63.5 of 206.7 G.S.T), 30.7%
10357.4 of 10919.0 Hour SMP CPU (402.4 of 424.2 G.S.T), 94.9%
13.3 of 27.7 GByteYear MP Disk (57.0 of 118.8 G.S.T), 48.0%
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%
subproject cse002d has used 2139.7 of 3017.3 Generic Service Tokens, 70.9%

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cse002 Bath
Last Trade: never
455233.5 of 462619.0 PEHour MPP PE CPU (11007.0 of 11185.5 G.S.T), 98.4%
122.0 of 145.0 GByteYear HP Disk (944.5 of 1122.6 G.S.T), 84.1%
0.0 of 2500.0 Hour SMP CPU (0.0 of 97.1 G.S.T), 0.0%
29.0 of 50.5 GByteYear MP Disk (124.5 of 216.6 G.S.T), 57.5%
76.1 of 75.0 GByteYear HSM/Tape (47.4 of 46.8 G.S.T), 101.5%
subproject cse002e has used 12123.3 of 12668.7 Generic Service Tokens, 95.7%

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cse002 UCL
Last Trade: never
84029.4 of 229733.0 PEHour MPP PE CPU (2031.7 of 5554.6 G.S.T), 36.6%
21.6 of 59.1 GByteYear HP Disk (167.4 of 457.6 G.S.T), 36.6%
2671.4 of 3450.0 Hour SMP CPU (103.8 of 134.0 G.S.T), 77.4%
20.3 of 54.6 GByteYear MP Disk (87.1 of 234.2 G.S.T), 37.2%
0.0 of 3.3 GByteYear HSM/Tape (0.0 of 2.0 G.S.T), 0.0%
32052.4 of 29998.0 Hour Green CPU (1674.8 of 1567.5 G.S.T), 106.8%
subproject cse002f has used 4064.8 of 7950.0 Generic Service Tokens, 51.1%

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cse002 Oxford - pcl
Last Trade: never
119644.0 of 157112.0 PEHour MPP PE CPU (2892.8 of 3798.8 G.S.T), 76.2%
9.8 of 32.8 GByteYear HP Disk (75.9 of 253.9 G.S.T), 29.9%
1472.3 of 1875.0 Hour SMP CPU (57.2 of 72.8 G.S.T), 78.5%
19.4 of 30.8 GByteYear MP Disk (83.0 of 132.1 G.S.T), 62.8%
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%
subproject cse002g has used 3348.1 of 5105.3 Generic Service Tokens, 65.6%

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cse002 Edinburgh
Last Trade: never
312282.8 of 304793.0 PEHour MPP PE CPU (7550.6 of 7369.5 G.S.T), 102.5%
37.7 of 51.0 GByteYear HP Disk (291.8 of 394.9 G.S.T), 73.9%
0.0 of 2800.0 Hour SMP CPU (0.0 of 108.8 G.S.T), 0.0%
10.9 of 46.5 GByteYear MP Disk (46.9 of 199.5 G.S.T), 23.5%
0.0 of 2.8 GByteYear HSM/Tape (0.0 of 1.8 G.S.T), 0.0%
subproject cse002i has used 7889.3 of 8074.4 Generic Service Tokens, 97.7%

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cse002 Kent (UKC)
Last Trade: never
221395.4 of 219888.0 PEHour MPP PE CPU (5353.1 of 5316.6 G.S.T), 100.7%
62.4 of 100.0 GByteYear HP Disk (483.5 of 774.2 G.S.T), 62.4%
0.0 of 2350.0 Hour SMP CPU (0.0 of 91.3 G.S.T), 0.0%
10.1 of 33.6 GByteYear MP Disk (43.4 of 144.1 G.S.T), 30.1%
23.3 of 100.0 GByteYear HSM/Tape (14.5 of 62.3 G.S.T), 23.3%
82478.8 of 127604.0 Hour Green CPU (4309.7 of 6667.6 G.S.T), 64.6%
subproject cse002j has used 10204.2 of 13056.2 Generic Service Tokens, 78.2%

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cse002 Durham
Last Trade: never
51092.5 of 90000.0 PEHour MPP PE CPU (1235.4 of 2176.1 G.S.T), 56.8%
14.3 of 45.0 GByteYear HP Disk (111.0 of 348.4 G.S.T), 31.9%
0.0 of 3000.0 Hour SMP CPU (0.0 of 116.6 G.S.T), 0.0%
8.5 of 45.0 GByteYear MP Disk (36.4 of 193.0 G.S.T), 18.9%
subproject cse002k has used 1382.8 of 2834.1 Generic Service Tokens, 48.8%

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cse002 York
Last Trade: never
0.0 of 50000.0 PEHour MPP PE CPU (0.0 of 1208.9 G.S.T), 0.0%
1.7 of 5.0 GByteYear HP Disk (13.0 of 38.7 G.S.T), 33.5%
0.0 of 2500.0 Hour SMP CPU (0.0 of 97.1 G.S.T), 0.0%
13.5 of 30.0 GByteYear MP Disk (57.7 of 128.7 G.S.T), 44.9%
subproject cse002l has used 70.7 of 1473.5 Generic Service Tokens, 4.8%

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cse009 GR/20607 Catlow
Last Trade: re-enabled
1302953.7 of 1846749.2 PEHour MPP PE CPU (31503.7 of 44652.0 G.S.T), 70.6%
158.8 of 712.2 GByteYear HP Disk (1229.5 of 5514.0 G.S.T), 22.3%
25231.5 of 49491.7 Hour SMP CPU (980.3 of 1922.8 G.S.T), 51.0%
19.2 of 646.7 GByteYear MP Disk (82.5 of 2774.2 G.S.T), 3.0%
0.0 of 714.9 GByteYear HSM/Tape (0.0 of 445.7 G.S.T), 0.0%
79973.2 of 191719.6 Hour Green CPU (4178.8 of 10017.7 G.S.T), 41.7%

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%
project cse009 has used 38224.8 of 66142.4 Generic Service Tokens, 57.8%

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cse013 GR/M50539 Leschziner
Last Trade: re-enabled
1201939.6 of 4737760.0 PEHour MPP PE CPU (29061.4 of 114553.0 G.S.T), 25.4%
26.6 of 195.8 GByteYear HP Disk (206.1 of 1516.3 G.S.T), 13.6%
13684.6 of 29364.5 Hour SMP CPU (531.7 of 1140.9 G.S.T), 46.6%
10.6 of 308.0 GByteYear MP Disk (45.6 of 1321.2 G.S.T), 3.5%
25.1 of 504.0 GByteYear HSM/Tape (15.7 of 314.2 G.S.T), 5.0%
10466.2 of 27763.9 Hour Green CPU (546.9 of 1450.7 G.S.T), 37.7%
0.0 of 9.0 PersonDay Support (0.0 of 250.0 G.S.T), 0.0%
4.0 of 57.5 Day Training (43.0 of 618.3 G.S.T), 7.0%
project cse013 has used 30450.3 of 121164.6 Generic Service Tokens, 25.1%

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cse013 - ICL
Last Trade: never
81667.4 of 100000.0 PEHour MPP PE CPU (1974.6 of 2417.9 G.S.T), 81.7%
1.3 of 2.0 GByteYear HP Disk (10.3 of 15.5 G.S.T), 66.2%
366.3 of 500.0 Hour SMP CPU (14.2 of 19.4 G.S.T), 73.3%
0.1 of 5.0 GByteYear MP Disk (0.4 of 21.4 G.S.T), 1.8%
0.0 of 2.0 GByteYear HSM/Tape (0.0 of 1.2 G.S.T), 0.0%
subproject cse013a has used 1999.5 of 2475.5 Generic Service Tokens, 80.8%

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cse013 - Loughborough
Last Trade: never
559593.9 of 600000.0 PEHour MPP PE CPU (13530.3 of 14507.2 G.S.T), 93.3%
5.9 of 8.0 GByteYear HP Disk (45.5 of 61.9 G.S.T), 73.4%
7818.4 of 8000.0 Hour SMP CPU (303.8 of 310.8 G.S.T), 97.7%
1.8 of 15.0 GByteYear MP Disk (7.6 of 64.3 G.S.T), 11.9%
0.0 of 5.0 GByteYear HSM/Tape (0.0 of 3.1 G.S.T), 0.0%
3324.5 of 4000.0 Hour Green CPU (173.7 of 209.0 G.S.T), 83.1%
subproject cse013b has used 14060.8 of 15156.5 Generic Service Tokens, 92.8%

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cse013 - Surrey
Last Trade: never
39619.0 of 80000.0 PEHour MPP PE CPU (957.9 of 1934.3 G.S.T), 49.5%
4.9 of 8.0 GByteYear HP Disk (37.9 of 61.9 G.S.T), 61.2%
22.5 of 1800.0 Hour SMP CPU (0.9 of 69.9 G.S.T), 1.2%
0.9 of 15.0 GByteYear MP Disk (3.7 of 64.3 G.S.T), 5.7%
0.0 of 5.0 GByteYear HSM/Tape (0.0 of 3.1 G.S.T), 0.0%
583.1 of 1000.0 Hour Green CPU (30.5 of 52.3 G.S.T), 58.3%
subproject cse013c has used 1030.8 of 2185.9 Generic Service Tokens, 47.2%

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cse013 - QMW
Last Trade: never
521059.3 of 600000.0 PEHour MPP PE CPU (12598.5 of 14507.2 G.S.T), 86.8%
8.7 of 10.0 GByteYear HP Disk (67.0 of 77.4 G.S.T), 86.5%
1144.0 of 1800.0 Hour SMP CPU (44.4 of 69.9 G.S.T), 63.6%
2.7 of 15.0 GByteYear MP Disk (11.7 of 64.3 G.S.T), 18.1%
25.1 of 30.0 GByteYear HSM/Tape (15.7 of 18.7 G.S.T), 83.8%
subproject cse013d has used 12737.3 of 14737.6 Generic Service Tokens, 86.4%

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cse030 GR/M56234 Cates
Last Trade: Tue May 7 19:37:11 2002
275342.9 of 320712.8 PEHour MPP PE CPU (6657.4 of 7754.4 G.S.T), 85.9%
368.9 of 490.2 GByteYear HP Disk (2856.5 of 3795.4 G.S.T), 75.3%
14152.9 of 27563.1 Hour SMP CPU (549.9 of 1070.9 G.S.T), 51.3%
444.1 of 682.7 GByteYear MP Disk (1905.2 of 2928.6 G.S.T), 65.1%
535.2 of 636.2 GByteYear HSM/Tape (333.6 of 396.6 G.S.T), 84.1%
32887.2 of 88851.1 Hour Green CPU (1718.4 of 4642.7 G.S.T), 37.0%
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%

project cse030 has used 15513.0 of 22518.7 Generic Service Tokens, 68.9%

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cse030 Edinburgh
Last Trade: never
78971.0 of 97480.0 PEHour MPP PE CPU (1909.4 of 2356.9 G.S.T), 81.0%
183.7 of 230.0 GByteYear HP Disk (1422.1 of 1780.7 G.S.T), 79.9%
2920.1 of 6000.0 Hour SMP CPU (113.5 of 233.1 G.S.T), 48.7%
87.1 of 120.0 GByteYear MP Disk (373.7 of 514.8 G.S.T), 72.6%
368.9 of 382.9 GByteYear HSM/Tape (230.0 of 238.7 G.S.T), 96.3%
0.0 of 20000.0 Hour Green CPU (0.0 of 1045.0 G.S.T), 0.0%
subproject cse030a has used 4048.5 of 6169.3 Generic Service Tokens, 65.6%

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cse030 QMW
Last Trade: never
171431.1 of 191480.0 PEHour MPP PE CPU (4145.0 of 4629.7 G.S.T), 89.5%
161.4 of 215.0 GByteYear HP Disk (1249.9 of 1664.6 G.S.T), 75.1%
1649.8 of 8700.0 Hour SMP CPU (64.1 of 338.0 G.S.T), 19.0%
333.2 of 486.0 GByteYear MP Disk (1429.3 of 2084.8 G.S.T), 68.6%
119.1 of 206.0 GByteYear HSM/Tape (74.2 of 128.4 G.S.T), 57.8%
0.0 of 32000.0 Hour Green CPU (0.0 of 1672.1 G.S.T), 0.0%
subproject cse030b has used 6962.5 of 10517.6 Generic Service Tokens, 66.2%

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cse030 Oxford
Last Trade: never
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%
6.4 of 15.0 GByteYear MP Disk (27.4 of 64.3 G.S.T), 42.7%
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%
subproject cse030c has used 478.8 of 845.9 Generic Service Tokens, 56.6%

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cse030 Bristol
Last Trade: never
0.0 of 1000.0 PEHour MPP PE CPU (0.0 of 24.2 G.S.T), 0.0%
10.2 of 12.0 GByteYear HP Disk (79.1 of 92.9 G.S.T), 85.2%
0.0 of 500.0 Hour SMP CPU (0.0 of 19.4 G.S.T), 0.0%
11.3 of 20.0 GByteYear MP Disk (48.6 of 85.8 G.S.T), 56.6%
0.0 of 0.0 GByteYear HSM/Tape (0.0 of 0.0 G.S.T)
subproject cse030d has used 127.7 of 222.3 Generic Service Tokens, 57.5%

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cse030 Leeds
Last Trade: never
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 of 0.0 GByteYear HSM/Tape (0.0 of 0.0 G.S.T)
subproject cse030e has used 0.0 of 0.0 Generic Service Tokens

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cse030 Cambridge
Last Trade: never
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%
subproject cse030f has used 0.0 of 334.4 Generic Service Tokens, 0.0%

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cse030 Sheffield Hallam
Last Trade: never
4188.6 of 10000.0 PEHour MPP PE CPU (101.3 of 241.8 G.S.T), 41.9%
1.5 of 12.5 GByteYear HP Disk (11.5 of 96.8 G.S.T), 11.8%
0.0 of 1800.0 Hour SMP CPU (0.0 of 69.9 G.S.T), 0.0%
1.2 of 15.0 GByteYear MP Disk (5.3 of 64.3 G.S.T), 8.2%
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%
subproject cse030g has used 118.0 of 890.9 Generic Service Tokens, 13.2%

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cse035 GR/M76720 King
Last Trade: Fri Feb 2 16:20:49 2001
415031.9 of 425689.3 PEHour MPP PE CPU (10034.9 of 10292.6 G.S.T), 97.5%
17.3 of 18.0 GByteYear HP Disk (133.7 of 139.4 G.S.T), 96.0%
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 (0.1 of 2.4 G.S.T), 2.1%
13.8 of 26.0 GByteYear HSM/Tape (8.6 of 16.2 G.S.T), 53.0%
project cse035 has used 10177.3 of 10450.6 Generic Service Tokens, 97.4%

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cse036 GR/M78502 Duff
Last Trade: re-enabled
11.6 of 617.1 PEHour MPP PE CPU (0.3 of 14.9 G.S.T), 1.9%
0.5 of 3.0 GByteYear HP Disk (4.2 of 23.2 G.S.T), 18.2%
84.5 of 399.9 Hour SMP CPU (3.3 of 15.5 G.S.T), 21.1%
0.3 of 3.0 GByteYear MP Disk (1.4 of 12.9 G.S.T), 10.7%
project cse036 has used 9.2 of 66.6 Generic Service Tokens, 13.8%

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cse040 GR/M84350 Badcock
Last Trade: re-enabled S
12.7 of 5000.0 PEHour MPP PE CPU (0.3 of 120.9 G.S.T), 0.3%
0.0 of 6.0 GByteYear HP Disk (0.3 of 46.5 G.S.T), 0.7%
0.8 of 6.8 GByteYear MP Disk (3.5 of 29.3 G.S.T), 11.8%
0.0 of 2.5 PersonDay Support (0.0 of 68.2 G.S.T), 0.0%
used 0.0 of 6.3 Day Training (0.0 of 68.1 G.S.T), 0.0%
project cse040 has used 4.1 of 333.0 Generic Service Tokens, 1.2%

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cse041 GR/M84879 Imregun
Last Trade: re-enabled
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 (7.7 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%
0.6 of 123.5 GByteYear MP Disk (2.5 of 529.6 G.S.T), 0.5%
67.4 of 230.3 GByteYear HSM/Tape (42.0 of 143.6 G.S.T), 29.3%
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%
project cse041 has used 112.2 of 3810.1 Generic Service Tokens, 2.9%

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cse043 GR/M85241 Williams
Last Trade: Thu Oct 18 15:49:55 2001
93193.5 of 149987.2 PEHour MPP PE CPU (2253.3 of 3626.5 G.S.T), 62.1%
1.3 of 10.0 GByteYear HP Disk (9.9 of 77.4 G.S.T), 12.8%
0.0 of 6.2 Hour SMP CPU (0.0 of 0.2 G.S.T), 0.2%
1.8 of 4.8 GByteYear MP Disk (7.8 of 20.8 G.S.T), 37.5%
0.1 of 28.8 GByteYear HSM/Tape (0.0 of 17.9 G.S.T), 0.2%
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%
project cse043 has used 2369.6 of 3841.4 Generic Service Tokens, 61.7%

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cse050 GR/N/38152 Bradley
Last Trade: Fri Jul 27 09:18:59 2001
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%
project cse050 has used 0.0 of 3334.1 Generic Service Tokens, 0.0%

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cse052 GR/N17683 Hayes
Last Trade: re-enabled
208348.1 of 280199.7 PEHour MPP PE CPU (5037.6 of 6774.9 G.S.T), 74.4%
2.9 of 9.1 GByteYear HP Disk (22.6 of 70.8 G.S.T), 31.9%
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%
project cse052 has used 5060.2 of 7453.9 Generic Service Tokens, 67.9%

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cse053 GR/R04225 Leschziner
Last Trade: Mon Oct 15 12:52:06 2001
18422.1 of 319557.6 PEHour MPP PE CPU (445.4 of 7726.5 G.S.T), 5.8%
1.0 of 115.0 GByteYear HP Disk (7.6 of 890.4 G.S.T), 0.9%
73.9 of 14000.0 Hour SMP CPU (2.9 of 543.9 G.S.T), 0.5%
0.6 of 85.0 GByteYear MP Disk (2.5 of 364.6 G.S.T), 0.7%
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%
project cse053 has used 490.3 of 10187.1 Generic Service Tokens, 4.8%

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cse055 GR/N66810 Staunton
Last Trade: Mon Aug 6 09:05:54 2001
7772.7 of 24604.0 PEHour MPP PE CPU (187.9 of 594.9 G.S.T), 31.6%
1.0 of 2.5 GByteYear HP Disk (7.6 of 19.4 G.S.T), 39.0%
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%
project cse055 has used 195.5 of 860.8 Generic Service Tokens, 22.7%

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cse056 GR/N24773 Imregun
Last Trade: Thu May 23 16:11:57 2002
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%
346.7 of 33774.1 Hour SMP CPU (13.5 of 1312.2 G.S.T), 1.0%
0.2 of 2.7 GByteYear MP Disk (0.9 of 11.7 G.S.T), 7.7%
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%
project cse056 has used 14.4 of 1882.4 Generic Service Tokens, 0.8%

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cse057 GR/R23909 Krushelnick
Last Trade: Fri Sep 7 11:39:20 2001
2310.0 of 86751.6 PEHour MPP PE CPU (55.9 of 2097.5 G.S.T), 2.7%
0.4 of 30.0 GByteYear HP Disk (2.7 of 232.3 G.S.T), 1.2%
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%
project cse057 has used 58.7 of 3019.5 Generic Service Tokens, 1.9%

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cse063 GR/R46151 Sandham
Last Trade: Tue Dec 11 09:17:13 2001
8673.4 of 404163.7 PEHour MPP PE CPU (209.7 of 9772.2 G.S.T), 2.1%
6.1 of 100.0 GByteYear HP Disk (47.1 of 774.2 G.S.T), 6.1%
0.2 of 0.6 Hour SMP CPU (0.0 of 0.0 G.S.T), 29.8%
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%
project cse063 has used 256.8 of 12029.1 Generic Service Tokens, 2.1%

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cse064 GR/R43570 Leschziner
Last Trade: Mon Jan 21 16:36:28 2002
2123.8 of 165039.1 PEHour MPP PE CPU (51.4 of 3990.4 G.S.T), 1.3%
0.1 of 35.0 GByteYear HP Disk (0.9 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 HSM/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%
project cse064 has used 74.0 of 5624.0 Generic Service Tokens, 1.3%

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cse066 GR/R30907 Coveney
Last Trade: Mon Sep 3 10:18:08 2001
48350.3 of 87981.1 PEHour MPP PE CPU (1169.0 of 2127.3 G.S.T), 55.0%
6.2 of 90.0 GByteYear HP Disk (48.4 of 696.8 G.S.T), 6.9%
2329.5 of 15000.0 Hour SMP CPU (90.5 of 582.8 G.S.T), 15.5%
7.7 of 18.0 GByteYear MP Disk (33.0 of 77.4 G.S.T), 42.6%
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%
project cse066 has used 1924.8 of 7510.4 Generic Service Tokens, 25.6%

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cse071 GR/R23657 Iacovides
Last Trade: Fri Oct 5 16:21:54 2001
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%
project cse071 has used 0.0 of 4383.3 Generic Service Tokens, 0.0%

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cse072 GR/R66692 Karlin
Last Trade: Fri Feb 8 16:42:38 2002
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%
project cse072 has used 0.0 of 4795.0 Generic Service Tokens, 0.0%

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cse074 GR/R66197 Luo
Last Trade: Wed Jan 2 15:22:45 2002
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%
project cse074 has used 0.0 of 480.0 Generic Service Tokens, 0.0%

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cse075 GR/R59540 Coveney
Last Trade: Tue May 21 10:59:31 2002
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%
2.5 of 150.0 GByteYear MP Disk (10.9 of 643.4 G.S.T), 1.7%
287.2 of 300000.0 Hour Green CPU (15.0 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%

project cse075 has used 27.7 of 29684.7 Generic Service Tokens, 0.1%

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cse076 GR/R66975 Briddon
Last Trade: re-enabled
8146.7 of 4161.1 PEHour MPP PE CPU (197.0 of 100.6 G.S.T), 195.8%
0.4 of 1.3 GByteYear HP Disk (2.9 of 10.5 G.S.T), 28.0%
216729.7 of 257593.3 Hour SMP CPU (8420.3 of 10007.9 G.S.T), 84.1%
2.4 of 27.2 GByteYear MP Disk (10.4 of 116.6 G.S.T), 8.9%
175958.8 of 260197.5 Hour Green CPU (9194.2 of 13595.9 G.S.T), 67.6%
11.0 of 20.0 PersonDay Support (305.6 of 555.6 G.S.T), 55.0%
project cse076 has used 18130.3 of 24387.0 Generic Service Tokens, 74.3%

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cse084 GR/R47066 Needs
Last Trade: Mon May 20 12:41:44 2002
133312.7 of 306225.8 PEHour MPP PE CPU (3223.3 of 7404.1 G.S.T), 43.5%
8.9 of 270.0 GByteYear HP Disk (68.7 of 2090.4 G.S.T), 3.3%
3453.0 of 14484.3 Hour SMP CPU (134.2 of 562.7 G.S.T), 23.8%
7.8 of 75.6 GByteYear MP Disk (33.3 of 324.4 G.S.T), 10.3%
60419.0 of 78955.4 Hour Green CPU (3157.0 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%
project cse084 has used 6616.5 of 15142.6 Generic Service Tokens, 43.7%

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cse085 GR/R64957 Sandham
Last Trade: Tue Dec 11 09:51:37 2001
144711.9 of 1388400.0 PEHour MPP PE CPU (3498.9 of 33569.7 G.S.T), 10.4%
102.4 of 650.0 GByteYear HP Disk (792.5 of 5032.5 G.S.T), 15.7%
1962.8 of 4045.2 Hour SMP CPU (76.3 of 157.2 G.S.T), 48.5%
73.8 of 750.0 GByteYear MP Disk (316.7 of 3217.2 G.S.T), 9.8%
579.1 of 1375.0 GByteYear HSM/Tape (361.1 of 857.2 G.S.T), 42.1%
97102.9 of 655628.0 Hour Green CPU (5073.8 of 34257.9 G.S.T), 14.8%
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%
project cse085 has used 10151.5 of 77857.7 Generic Service Tokens, 13.0%

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cse086 GR/R83118 Taylor
Last Trade: Fri Jun 21 11:58:33 2002
140671.4 of 330317.8 PEHour MPP PE CPU (3401.3 of 7986.7 G.S.T), 42.6%
9.5 of 34.4 GByteYear HP Disk (73.9 of 266.5 G.S.T), 27.7%
1495.4 of 6724.6 Hour SMP CPU (58.1 of 261.3 G.S.T), 22.2%
23.3 of 497.0 GByteYear MP Disk (100.1 of 2132.0 G.S.T), 4.7%
1.5 of 3750.0 GByteYear HSM/Tape (1.0 of 2337.9 G.S.T), 0.0%
38084.9 of 859900.0 Hour Green CPU (1990.0 of 44931.5 G.S.T), 4.4%
0.0 of 35.0 PersonDay Support (0.0 of 972.2 G.S.T), 0.0%
0.0 of 116.0 Day Training (0.0 of 1247.3 G.S.T), 0.0%
project cse086 has used 5624.3 of 60135.4 Generic Service Tokens, 9.4%

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cse086a MP1
Last Trade: never
84030.5 of 175000.0 PEHour MPP PE CPU (2031.7 of 4231.3 G.S.T), 48.0%
0.9 of 4.0 GByteYear HP Disk (7.0 of 31.0 G.S.T), 22.7%
0.0 of 100.0 Hour SMP CPU (0.0 of 3.9 G.S.T), 0.0%
2.4 of 5.0 GByteYear MP Disk (10.1 of 21.4 G.S.T), 47.1%
0.0 of 10000.0 Hour Green CPU (0.0 of 522.5 G.S.T), 0.0%
subproject cse086a has used 2048.9 of 4810.1 Generic Service Tokens, 42.6%

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cse086b MP2
Last Trade: never
45.1 of 20000.0 PEHour MPP PE CPU (1.1 of 483.6 G.S.T), 0.2%
2.4 of 5.0 GByteYear HP Disk (18.8 of 38.7 G.S.T), 48.5%
18.6 of 24.0 Hour SMP CPU (0.7 of 0.9 G.S.T), 77.6%
1.3 of 5.0 GByteYear MP Disk (5.5 of 21.4 G.S.T), 25.5%

37187.8 of 50000.0 Hour Green CPU (1943.1 of 2612.6 G.S.T), 74.4%
subproject cse086b has used 1969.2 of 3157.3 Generic Service Tokens, 62.4%

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cse086d MP4
Last Trade: never
0.0 of 0.1 GByteYear HP Disk (0.1 of 0.8 G.S.T), 12.1%
0.0 of 0.1 GByteYear MP Disk (0.0 of 0.4 G.S.T), 11.5%
subproject cse086d has used 0.1 of 1.2 Generic Service Tokens, 11.9%

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cse086e MP5
Last Trade: never
48.8 of 20000.0 PEHour MPP PE CPU (1.2 of 483.6 G.S.T), 0.2%
0.2 of 5.0 GByteYear HP Disk (1.9 of 38.7 G.S.T), 4.9%
366.7 of 1500.0 Hour SMP CPU (14.2 of 58.3 G.S.T), 24.4%
2.5 of 5.0 GByteYear MP Disk (10.7 of 21.4 G.S.T), 49.9%
520.4 of 10000.0 Hour Green CPU (27.2 of 522.5 G.S.T), 5.2%
subproject cse086e has used 55.2 of 1124.5 Generic Service Tokens, 4.9%

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cse086f EC1
Last Trade: never
1.1 of 20000.0 PEHour MPP PE CPU (0.0 of 483.6 G.S.T), 0.0%
0.4 of 5.0 GByteYear HP Disk (3.2 of 38.7 G.S.T), 8.3%
3.4 of 700.0 Hour SMP CPU (0.1 of 27.2 G.S.T), 0.5%
2.5 of 5.0 GByteYear MP Disk (10.6 of 21.4 G.S.T), 49.3%
1.5 of 40.0 GByteYear HSM/Tape (1.0 of 24.9 G.S.T), 3.8%
0.0 of 10000.0 Hour Green CPU (0.0 of 522.5 G.S.T), 0.0%
subproject cse086f has used 14.9 of 1118.4 Generic Service Tokens, 1.3%

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cse086g EC2
Last Trade: never
8.4 of 15000.0 PEHour MPP PE CPU (0.2 of 362.7 G.S.T), 0.1%
0.5 of 5.0 GByteYear HP Disk (3.8 of 38.7 G.S.T), 9.8%
3.8 of 2000.0 Hour SMP CPU (0.1 of 77.7 G.S.T), 0.2%
7.1 of 10.0 GByteYear MP Disk (30.3 of 42.9 G.S.T), 70.7%
376.7 of 10000.0 Hour Green CPU (19.7 of 522.5 G.S.T), 3.8%
subproject cse086g has used 54.1 of 1044.5 Generic Service Tokens, 5.2%

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cse086h EC3
Last Trade: never
46335.1 of 50000.0 PEHour MPP PE CPU (1120.3 of 1208.9 G.S.T), 92.7%
0.9 of 5.0 GByteYear HP Disk (7.0 of 38.7 G.S.T), 18.0%
219.9 of 250.0 Hour SMP CPU (8.5 of 9.7 G.S.T), 87.9%
4.9 of 5.0 GByteYear MP Disk (20.9 of 21.4 G.S.T), 97.5%
0.0 of 10000.0 Hour Green CPU (0.0 of 522.5 G.S.T), 0.0%
subproject cse086h has used 1156.7 of 1801.3 Generic Service Tokens, 64.2%

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cse086i EC4
Last Trade: never
0.0 of 0.1 GByteYear HP Disk (0.1 of 0.8 G.S.T), 11.5%
0.0 of 0.1 GByteYear MP Disk (0.0 of 0.4 G.S.T), 11.5%
subproject cse086i has used 0.1 of 1.2 Generic Service Tokens, 11.5%

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cse086j BEC1
Last Trade: never
10202.5 of 15000.0 PEHour MPP PE CPU (246.7 of 362.7 G.S.T), 68.0%
0.1 of 3.0 GByteYear HP Disk (1.1 of 23.2 G.S.T), 4.5%
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), 0.6%
0.0 of 1000.0 Hour Green CPU (0.0 of 52.3 G.S.T), 0.0%
subproject cse086j has used 247.9 of 459.6 Generic Service Tokens, 53.9%

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cse086k BEC2
Last Trade: never
0.0 of 0.1 GByteYear HP Disk (0.1 of 0.8 G.S.T), 11.5%
883.0 of 2000.0 Hour SMP CPU (34.3 of 77.7 G.S.T), 44.1%
2.3 of 5.0 GByteYear MP Disk (9.9 of 21.4 G.S.T), 46.0%
subproject cse086k has used 44.3 of 99.9 Generic Service Tokens, 44.3%

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csehpcx - benchmarking
Last Trade: Fri Jun 7 14:46:11 2002
358.5 of 200743.4 PEHour MPP PE CPU (8.7 of 4853.7 G.S.T), 0.2%
used 0.9 of 18.9 GByteYear HP Disk (7.2 of 146.3 G.S.T), 4.9%
project csehpcx has used 15.9 of 5000.0 Generic Service Tokens, 0.3%

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csn001 Webb & GST/02/2846 Killworth & T/S/2001/00187 New
Last Trade: Fri Jun 21 10:06:46 2002
403650.3 of 450058.5 PEHour MPP PE CPU (9759.7 of 10881.8 G.S.T), 89.7%
255.2 of 420.3 GByteYear HP Disk (1976.1 of 3253.8 G.S.T), 60.7%
40083.1 of 65706.0 Hour SMP CPU (1557.3 of 2552.8 G.S.T), 61.0%
249.5 of 702.2 GByteYear MP Disk (1070.5 of 3012.0 G.S.T), 35.5%
8771.7 of 15221.7 GByteYear HSM/Tape (5468.6 of 9489.8 G.S.T), 57.6%
520216.9 of 753681.3 Hour Green CPU (27182.4 of 39381.4 G.S.T), 69.0%
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 (10.4 of 27.1 G.S.T), 38.2%
29.0 of 44.0 PersonDay Support (805.6 of 1221.2 G.S.T), 66.0%
3.0 of 15.3 Day Training (32.3 of 164.4 G.S.T), 19.6%
project csn001 has used 48545.1 of 70905.2 Generic Service Tokens, 68.5%

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csn003 UGAMP O'Neill
Last Trade: Wed May 22 10:19:47 2002
3331109.6 of 3860564.3 PEHour MPP PE CPU (80542.0 of 93343.5 G.S.T), 86.3%
67.4 of 113.9 GByteYear HP Disk (521.7 of 881.6 G.S.T), 59.2%
18235.1 of 23508.7 Hour SMP CPU (708.5 of 913.3 G.S.T), 77.6%
59.7 of 93.8 GByteYear MP Disk (256.2 of 402.3 G.S.T), 63.7%
28423.3 of 31555.2 GByteYear HSM/Tape (17720.3 of 19672.8 G.S.T), 90.1%
71961.9 of 262133.3 Hour Green CPU (3760.2 of 13697.0 G.S.T), 27.5%
65513.8 of 88908.6 Hour VPP_CPU (71914.1 of 97594.5 G.S.T), 73.7%
331.2 of 442.9 GByteYear Fuji Disk (1420.8 of 1900.0 G.S.T), 74.8%
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%
project csn003 has used 176886.6 of 228456.2 Generic Service Tokens, 77.4%

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csn006 GR9/3550 Price
Last Trade: Wed May 15 10:02:01 2002
1492200.1 of 1674524.0 PEHour MPP PE CPU (36079.5 of 40487.8 G.S.T), 89.1%
115.2 of 192.2 GByteYear HP Disk (892.2 of 1488.4 G.S.T), 59.9%
70301.6 of 72226.1 Hour SMP CPU (2731.3 of 2806.1 G.S.T), 97.3%
22.2 of 85.5 GByteYear MP Disk (95.3 of 366.8 G.S.T), 26.0%
1.6 of 20.3 GByteYear HSM/Tape (1.0 of 12.6 G.S.T), 8.1%
171243.7 of 369394.9 Hour Green CPU (8947.8 of 19301.6 G.S.T), 46.4%
project csn006 has used 48747.2 of 64463.4 Generic Service Tokens, 75.6%

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csn012 NER/A/S/2000/01315 Tennyson
Last Trade: re-enabled
0.0 of 1.2 GByteYear MP Disk (0.0 of 5.0 G.S.T), 0.3%
4395.6 of 4850.7 Hour VPP_CPU (4825.0 of 5324.6 G.S.T), 90.6%
8.4 of 9.3 GByteYear Fuji Disk (36.0 of 40.0 G.S.T), 90.0%
project csn012 has used 4861.0 of 5369.6 Generic Service Tokens, 90.5%

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csn013 GR3/12954 Voke
Last Trade: re-enabled
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%
project csn013 has used 1015.7 of 1888.3 Generic Service Tokens, 53.8%

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csn014 GST/02/2785 Llewellyn-Jones
Last Trade: re-enabled
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%
project csn014 has used 0.0 of 154.0 Generic Service Tokens, 0.0%

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csn015 Proctor
Last Trade: Fri May 17 12:17:47 2002
226646.6 of 472776.0 PEHour MPP PE CPU (5480.0 of 11431.1 G.S.T), 47.9%
3.2 of 5.0 GByteYear HP Disk (24.7 of 38.7 G.S.T), 63.9%
692.3 of 1662.0 Hour SMP CPU (26.9 of 64.6 G.S.T), 41.7%
42.8 of 99.3 GByteYear MP Disk (183.5 of 425.8 G.S.T), 43.1%
1809.2 of 2450.1 GByteYear HSM/Tape (1127.9 of 1527.5 G.S.T), 73.8%
92743.3 of 240788.5 Hour Green CPU (4846.0 of 12581.7 G.S.T), 38.5%
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%
project csn015 has used 11776.9 of 30232.5 Generic Service Tokens, 39.0%

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csn017 Payne GR3/12917
Last Trade: re-enabled
435.9 of 435.9 PEHour MPP PE CPU (10.5 of 10.5 G.S.T), 100.0%
0.3 of 0.2 GByteYear HP Disk (2.0 of 1.8 G.S.T), 109.4%
1468.3 of 2237.4 Hour SMP CPU (57.0 of 86.9 G.S.T), 65.6%
1.6 of 13.6 GByteYear MP Disk (6.9 of 58.4 G.S.T), 11.8%
201.7 of 2126.6 Hour Green CPU (10.5 of 111.1 G.S.T), 9.5%
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%
project csn017 has used 108.5 of 906.7 Generic Service Tokens, 12.0%

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csn036 NER/T/S/1999/00110 Haines
Last Trade: Mon Jun 11 15:58:18 2001
0.2 of 128237.1 PEHour MPP PE CPU (0.0 of 3100.6 G.S.T), 0.0%
1.9 of 60.0 GByteYear HP Disk (14.8 of 464.5 G.S.T), 3.2%
90.4 of 400.0 Hour SMP CPU (3.5 of 15.5 G.S.T), 22.6%
1.5 of 60.0 GByteYear MP Disk (6.5 of 257.4 G.S.T), 2.5%
230.9 of 700.0 GByteYear HSM/Tape (144.0 of 436.4 G.S.T), 33.0%
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%
project csn036 has used 168.7 of 4383.8 Generic Service Tokens, 3.8%

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csn044 Earth Observation
Last Trade: Fri May 17 14:41:41 2002
8.5 of 8271.7 PEHour MPP PE CPU (0.2 of 200.0 G.S.T), 0.1%
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%
1.0 of 53.8 GByteYear HSM/Tape (0.6 of 33.5 G.S.T), 1.9%
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%
project csn044 has used 0.9 of 500.0 Generic Service Tokens, 0.2%

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csp004 PPA/G/0/2000/00024 Bell
Last Trade: Thu Mar 29 12:49:04 2001 Start: 0 End 0
40612.8 of 86221.7 PEHour MPP PE CPU (982.0 of 2084.7 G.S.T), 47.1%
7.4 of 47.0 GByteYear HP Disk (57.5 of 363.9 G.S.T), 15.8%
36.7 of 4274.0 Hour SMP CPU (1.4 of 166.1 G.S.T), 0.9%
5.3 of 24.0 GByteYear MP Disk (22.7 of 103.0 G.S.T), 22.1%

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%
project csp004 has used 1063.7 of 2998.1 Generic Service Tokens, 35.5%

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csp006 PPA/G/S/2001/00050 Browning
Last Trade: Fri Feb 15 17:02:18 2002
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%
project csp006 has used 72.2 of 1093.0 Generic Service Tokens, 6.6%

HPCI Daresbury
Last Trade: re-enabled
34673.0 of 34482.9 PEHour MPP PE CPU (838.3 of 833.8 G.S.T), 100.6%
3.6 of 3.8 GByteYear HP Disk (27.7 of 29.6 G.S.T), 93.7%
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 (7.4 of 7.2 G.S.T), 101.9%
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%
project hpcid has used 1607.2 of 1589.9 Generic Service Tokens, 101.1%

HPCI Edinburgh
Last Trade: Wed Jul 11 12:09:29 2001
1480.9 of 4070.6 PEHour MPP PE CPU (35.8 of 98.4 G.S.T), 36.4%
3.6 of 4.7 GByteYear HP Disk (27.6 of 36.6 G.S.T), 75.3%
698.4 of 770.8 Hour SMP CPU (27.1 of 29.9 G.S.T), 90.6%
2.5 of 2.8 GByteYear MP Disk (10.6 of 12.0 G.S.T), 87.8%
1728.7 of 1739.8 Hour Green CPU (90.3 of 90.9 G.S.T), 99.4%
project hpcie has used 191.4 of 267.9 Generic Service Tokens, 71.4%

HPCI Southampton
Last Trade: re-enabled
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%
project hpcis has used 278.4 of 440.2 Generic Service Tokens, 63.2%

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ukhec
Last Trade: Thu Oct 18 17:45:15 2001
69.5 of 10000.0 PEHour MPP PE CPU (1.7 of 241.8 G.S.T), 0.7%
0.3 of 10.0 GByteYear HP Disk (2.1 of 77.4 G.S.T), 2.7%
0.0 of 10000.0 Hour SMP CPU (0.0 of 388.5 G.S.T), 0.0%
0.3 of 10.0 GByteYear MP Disk (1.1 of 42.9 G.S.T), 2.7%
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%
0.3 of 3.0 GByteYear Fuji Disk (1.1 of 12.9 G.S.T), 8.9%
2.0 of 2.0 Day Training (21.5 of 21.6 G.S.T), 99.7%
project ukhec has used 27.5 of 1885.4 Generic Service Tokens, 1.5%

Appendix 6

Code	PI	Subject	Subject Area
Cse002	Dr Nicolas Harrison (Gillan)	Support for the UKCP	Physics
Cse003	Prof. Ken Taylor	HPC Consortiums 98- 2000	Physics
Cse004	Dr Neil Sandham	UK Turbulence	Engineering
Cse006	Dr Patrick Briddon	Covalently Bonded Materials	Materials
Cse007	Dr Matthew Foulkes	Quantum Many Body Theory	Physics
Cse008	Dr Mark Vincent (Hillier)	Model Chemical Reactivity	Chemistry
Cse009	Dr Ben Slater (Catlow)	HPC in Materials Chemistry	Chemistry
Cse010	Dr John Williams	Free Surface Flows	Engineering
Cse011	Dr John Williams	Open Channel Flood Plains	Engineering
Cse013	Dr David Aspley (Leschziner)	Complex Engineering Flows	Engineering
Cse014	Dr Cassiano de Oliverira (Goddard)	Probs in Nuclear Safety	Engineering
Cse016	Dr Stewart Cant	Turbulent Combustion	Engineering
Cse018	Dr Stewart Cant	Turbulent Flames	Engineering
Cse019	Dr Jason Lander (Berzins)	ROPA	Information Technology
Cse020	Dr Marek Szularz	Symmetric Eigenproblem	Information Technology
Cse021	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	
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	
Cs2002	Dr Ingrid Stairs (Lyne)	Millisecond Pulsars	
Cs2003	Mr Tom Coulthard	Holocene Sediment Fluxes	
Cs2004	Dr A. Paul Watkins	Internal Combustion Engine	
Cs2005	Mr Sean Walsh	Arabidopsis Genome	
Cs2006	Prof. Walter Temmerman	Superconductivity & Magmetisim	
Cs2007	Choularton	Precipitation in the Mountains	
Cs2008	Dr Matthew Genge	Extraterrestrial Mineral Surfaces	
Cs3001	Mr John Andrew Staveley	Helical Coherent Structures	