

Monthly Reporting

Report from 01 September 2020 to 30 September 2020

Report for Resource Pool XC on ARCHER

A total of 1,275,263.997 kAU were available during this period.

Use and Allocations (by Project)

In the following table, Charged refers to usage which was charged against the project Allocation; whereas Used refers to usage including uncharged time. Uncharged time can arise from use of the Low Priority queue and/or during times when charging is disabled on the service.

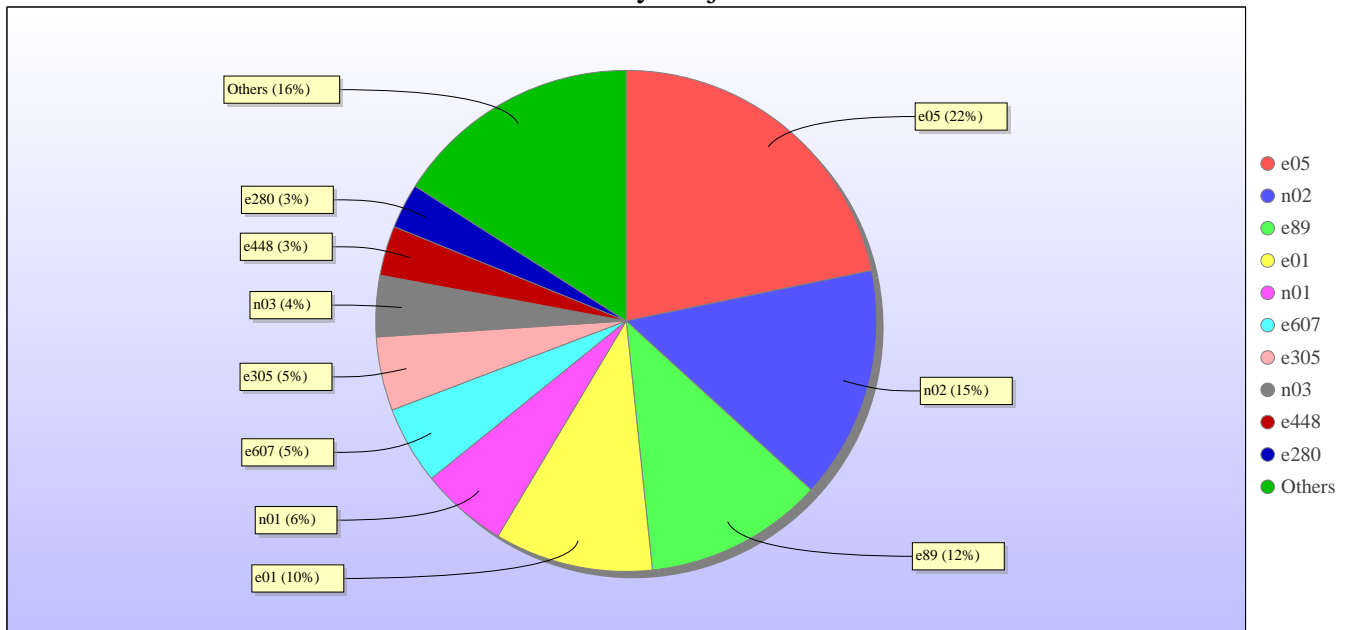
The (Allocation) column is the time allocated to the project, scaled according to the reporting period and shown as a fraction of the available resources. If this report period is a sub-period of the Allocation period then the SAFE calculates the Allocation for this sub-period based on a linear spend profile of the total Allocation. If the usage for a project is not linear across the full Allocation period the the Use can be larger than the extrapolated Allocation.

Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
E635	Class1a	149	1,864.4	0.15%	1,864.4	0.15%	3,277.9	0.26%
c01	Class1a	438	8,184.9	0.64%	8,199.3	0.64%	17,034.2	1.34%
e432	Class1a	45	511.2	0.04%	511.2	0.04%	7,614.0	0.60%
e448	Class1a	2,572	38,095.6	2.99%	38,095.6	2.99%	34,026.0	2.67%
e530	Class1a	0	0.0	0.00%	0.0	0.00%	1,093.4	0.09%
e537	Class1a	0	0.0	0.00%	0.0	0.00%	1,828.4	0.14%
e572	Class1a	252	1,389.1	0.11%	1,389.1	0.11%	3,470.9	0.27%
e575	Class1a	371	11,599.0	0.91%	11,599.3	0.91%	2,817.0	0.22%
e584	Class1a	12	5,543.9	0.43%	5,543.9	0.43%	1,339.0	0.10%
e588	Class1a	3	207.9	0.02%	207.9	0.02%	2,950.1	0.23%
e606	Class1a	332	477.3	0.04%	477.3	0.04%	7,891.8	0.62%
e607	Class1a	675	59,623.5	4.68%	59,690.6	4.68%	15,573.8	1.22%
e608	Class1a	60	3,459.5	0.27%	6,248.2	0.49%	3,277.9	0.26%
e609	Class1a	77	1,348.5	0.11%	1,348.5	0.11%	11,639.3	0.91%
e610	Class1a	33	7,705.4	0.60%	7,706.2	0.60%	7,335.3	0.58%
e613	Class1a	4	420.9	0.03%	420.9	0.03%	655.6	0.05%
e627	Class1a	886	17,764.6	1.39%	17,772.3	1.39%	7,251.9	0.57%
e630	Class1a	24	1,405.4	0.11%	1,405.4	0.11%	16,300.7	1.28%
e637	Class1a	0	0.0	0.00%	0.0	0.00%	2,458.5	0.19%
e642	Class1a	0	0.0	0.00%	0.0	0.00%	7,093.7	0.56%
e643	Class1a	16	1.2	0.00%	1.2	0.00%	7,335.3	0.58%
e645	Class1a	0	0.0	0.00%	0.0	0.00%	3,947.0	0.31%
e647	Class1a	174	253.3	0.02%	253.3	0.02%	5,194.3	0.41%
e648	Class1a	5	813.2	0.06%	813.2	0.06%	4,694.6	0.37%
e649	Class1a	0	0.0	0.00%	0.0	0.00%	4,098.4	0.32%
e651	Class1a	393	3,662.6	0.29%	3,662.6	0.29%	1,971.7	0.15%
e655	Class1a	88	911.2	0.07%	911.2	0.07%	2,445.1	0.19%
e663	Class1a	149	1,917.6	0.15%	1,917.6	0.15%	1,639.0	0.13%
e667	Class1a	6	51.2	0.00%	51.2	0.00%	1,546.1	0.12%
e668	Class1a	0	0.0	0.00%	0.0	0.00%	2,037.6	0.16%
e01	Consortia	1,623	107,693.3	8.44%	121,230.2	9.51%	82,011.9	6.43%
e05	Consortia	9,943	196,053.2	15.37%	258,128.0	20.24%	229,532.5	18.00%
e89	Consortia	2,985	135,110.5	10.59%	136,973.5	10.74%	117,326.4	9.20%
e280	Consortia	516	30,923.8	2.42%	34,397.6	2.70%	48,897.2	3.83%
e281	Consortia	375	15,758.5	1.24%	17,882.9	1.40%	17,476.8	1.37%
e283	Consortia	919	16,162.7	1.27%	16,462.0	1.29%	18,307.1	1.44%
e305	Consortia	980	55,227.7	4.33%	56,493.1	4.43%	56,771.6	4.45%
e585	Consortia	225	9,021.6	0.71%	11,012.6	0.86%	28,688.5	2.25%
e658	Consortia	851	21,449.4	1.68%	21,449.4	1.68%	25,089.0	1.97%
e348	Direct Access: ARCHER RAP	34	8,973.5	0.70%	8,973.5	0.70%	0.0	0.00%

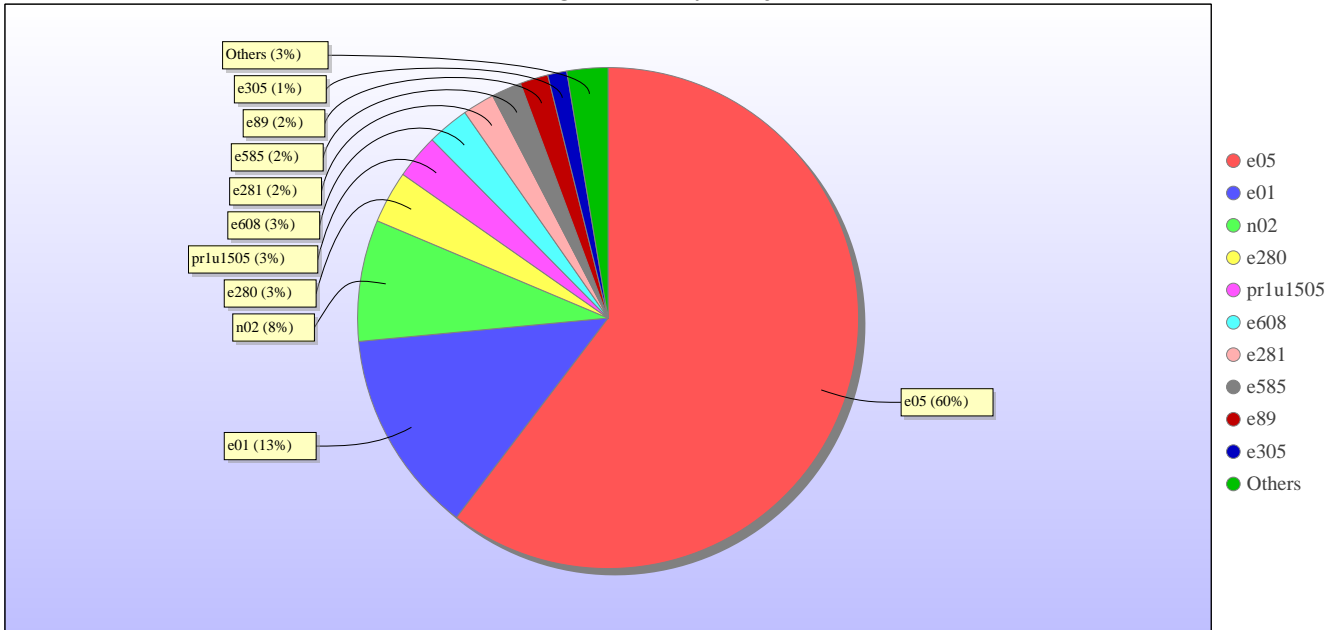
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e664	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	1,232.5	0.10%
e632	Instant Access	27	5.0	0.00%	5.0	0.00%	904.8	0.07%
e650	Instant Access	11	474.9	0.04%	834.6	0.07%	131.4	0.01%
e653	Instant Access	0	0.0	0.00%	0.0	0.00%	131.9	0.01%
e657	Instant Access	0	0.0	0.00%	0.0	0.00%	149.1	0.01%
e659	Instant Access	0	0.0	0.00%	0.0	0.00%	195.9	0.02%
e660	Instant Access	0	0.0	0.00%	0.0	0.00%	195.6	0.02%
e661	Instant Access	0	0.0	0.00%	0.0	0.00%	195.6	0.02%
e662	Instant Access	0	0.0	0.00%	0.0	0.00%	196.7	0.02%
e665	Instant Access	2	0.0	0.00%	0.0	0.00%	196.7	0.02%
e644	Training	3	405.3	0.03%	405.3	0.03%	2,212.9	0.17%
e654	Training	69	988.9	0.08%	988.9	0.08%	3,223.9	0.25%
e666	COVID-19 HPC Consortium	0	0.0	0.00%	0.0	0.00%	17,282.6	1.36%
EPSRC Total		25,327	765,459.9	60.02%	855,327.1	67.07%	840,189.1	65.88%
n01	Consortia	1,319	67,306.4	5.28%	66,588.3	5.22%	126,589.6	9.93%
n02	Consortia	13,475	169,762.0	13.31%	177,818.5	13.94%	182,686.6	14.33%
n03	Consortia	3,521	46,469.0	3.64%	46,798.3	3.67%	82,388.1	6.46%
NERC Total		18,315	283,537.5	22.23%	291,205.0	22.83%	391,664.2	30.71%
e621	Leadership Awards	8	60.5	0.00%	60.5	0.00%	2,771.1	0.22%
e568	Research	0	0.0	0.00%	0.0	0.00%	3,745.9	0.29%
BBSRC Total		8	60.5	0.00%	60.5	0.00%	6,517.0	0.51%
pr1u0001	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	2.7	0.00%
pr1u1551	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	488.5	0.04%
pr1u1552	DECI: EXEC	305	9,970.6	0.78%	9,970.6	0.78%	2,883.6	0.23%
pr1u1553	DECI: EXEC	1	75.1	0.01%	75.1	0.01%	0.0	0.00%
pr1u1554	DECI: EXEC	363	1,067.3	0.08%	1,287.2	0.10%	571.9	0.04%
pr1u1651	DECI: EXEC	4	348.4	0.03%	348.4	0.03%	196.9	0.02%
pr1u1652	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	1,687.4	0.13%
pr1u1653	DECI: EXEC	20	628.1	0.05%	628.1	0.05%	2,142.7	0.17%
pr1u1654	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	359.4	0.03%
pr1u1655	DECI: EXEC	47	8.9	0.00%	8.9	0.00%	905.9	0.07%
pr1u1656	DECI: EXEC	170	417.9	0.03%	417.9	0.03%	1,083.7	0.08%
pr1u1657	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	333.2	0.03%
pr1u1658	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	1,518.9	0.12%
pr1u1501	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1502	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1503	DECI: HOME	0	0.0	0.00%	0.0	0.00%	530.5	0.04%
pr1u1504	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1505	DECI: HOME	7	0.0	0.00%	2,960.9	0.23%	0.1	0.00%
pr1u1506	DECI: HOME	0	0.0	0.00%	0.0	0.00%	1,572.3	0.12%
pr1u1507	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1601	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1602	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1603	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1604	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1605	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1606	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1607	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1608	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1609	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1610	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1611	DECI: HOME	61	1,801.4	0.14%	1,801.4	0.14%	161.5	0.01%
pr1uco79	DECI: HOME	61	8,433.8	0.66%	8,433.8	0.66%	8,618.6	0.68%
PRACE Total		1,039	22,751.4	1.78%	25,932.1	2.03%	23,058.8	1.81%
d35	Research	0	0.0	0.00%	0.0	0.00%	163.0	0.01%
d56	Research	89	652.3	0.05%	652.3	0.05%	4,918.0	0.39%
d88	Research	0	0.0	0.00%	0.0	0.00%	0.5	0.00%
d114	Research	301	1,844.9	0.14%	1,846.7	0.14%	10,385.0	0.81%
d118	Research	138	105.1	0.01%	105.1	0.01%	327.9	0.03%
d137	Research	54	5,690.0	0.45%	5,690.0	0.45%	2,471.4	0.19%

Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
d142	Research	9	6.1	0.00%	6.1	0.00%	532.8	0.04%
d143	Research	24	795.8	0.06%	795.8	0.06%	1,229.5	0.10%
d155	Research	27	850.2	0.07%	850.2	0.07%	2,049.2	0.16%
d170	Research	15	0.0	0.00%	0.0	0.00%	0.8	0.00%
d428	Research	0	0.0	0.00%	0.0	0.00%	343.5	0.03%
d429	Research	0	0.0	0.00%	0.0	0.00%	600.0	0.05%
d430	Research	0	0.0	0.00%	0.0	0.00%	13,125.0	1.03%
W22	Industrial	0	0.0	0.00%	0.0	0.00%	491.7	0.04%
d153	Industrial	234	435.0	0.03%	435.2	0.03%	163.9	0.01%
i01	Industrial	0	0.0	0.00%	0.0	0.00%	602.3	0.05%
i21	Industrial	4	362.9	0.03%	241.9	0.02%	16,393.4	1.29%
i236	Industrial	5	171.4	0.01%	171.4	0.01%	127.6	0.01%
w21	Industrial	7	852.4	0.07%	1,591.2	0.12%	491.7	0.04%
w23	Industrial	0	0.0	0.00%	0.0	0.00%	491.7	0.04%
w24	Industrial	2	346.4	0.03%	346.4	0.03%	491.7	0.04%
d171	Training	0	0.0	0.00%	0.0	0.00%	1,095.1	0.09%
DirectorsTime Total		909	12,112.5	0.95%	12,732.4	1.00%	56,495.7	4.43%
y14	Training	1	0.0	0.00%	0.0	0.00%	163.9	0.01%
y02	Service	0	0.0	0.00%	0.0	0.00%	41.0	0.00%
y07	Service	0	0.0	0.00%	0.0	0.00%	89.3	0.01%
z01	Service	5	0.0	0.00%	0.0	0.00%	12.2	0.00%
z02	Service	0	0.0	0.00%	0.0	0.00%	4.1	0.00%
z19	Service	47	104.7	0.01%	104.7	0.01%	2,142.9	0.17%
CSE Total		53	104.7	0.01%	104.7	0.01%	2,453.4	0.19%
Total		45,651	1,084,026.5	85.00%	1,185,361.9	92.95%	1,320,378.1	103.54%

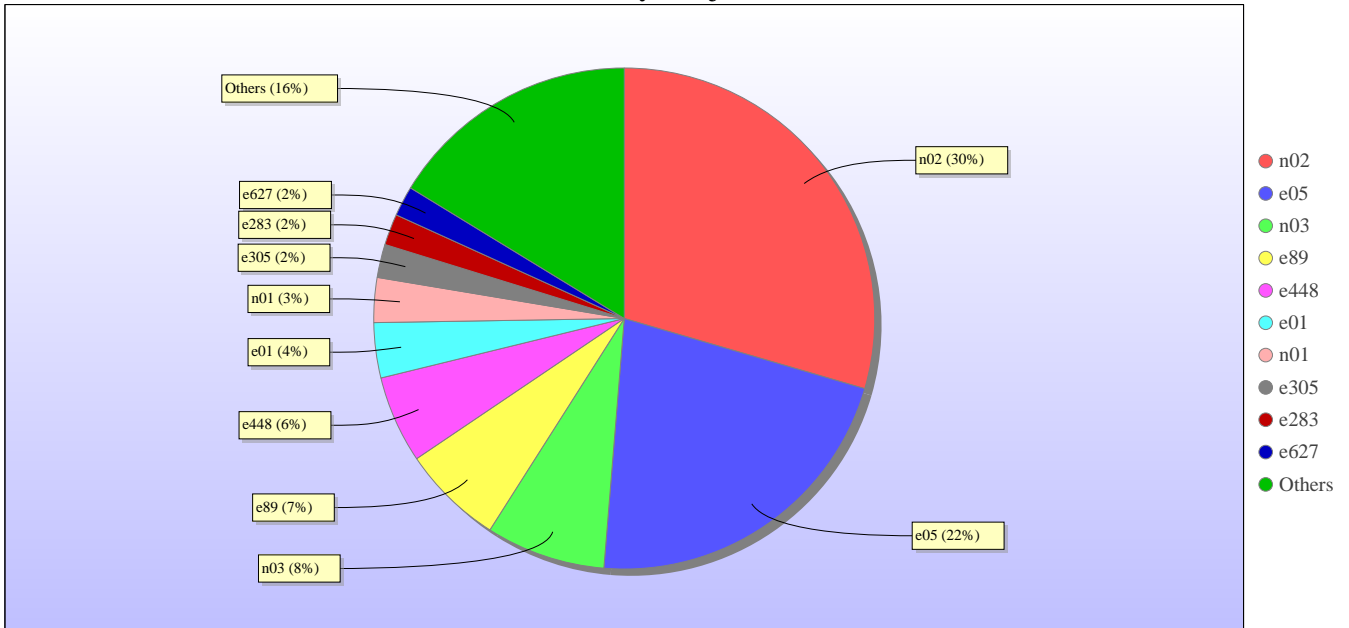
Use by Project



Uncharged Use by Project



Jobs by Project

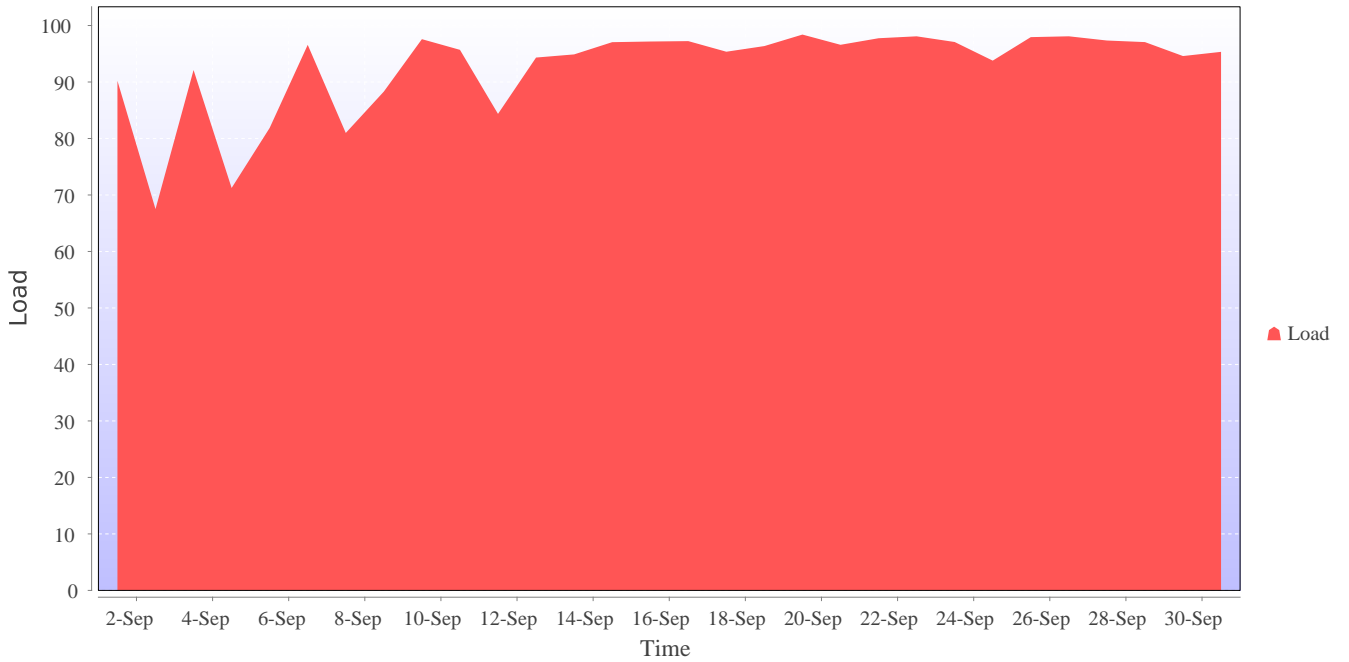


kAUs (by Size)

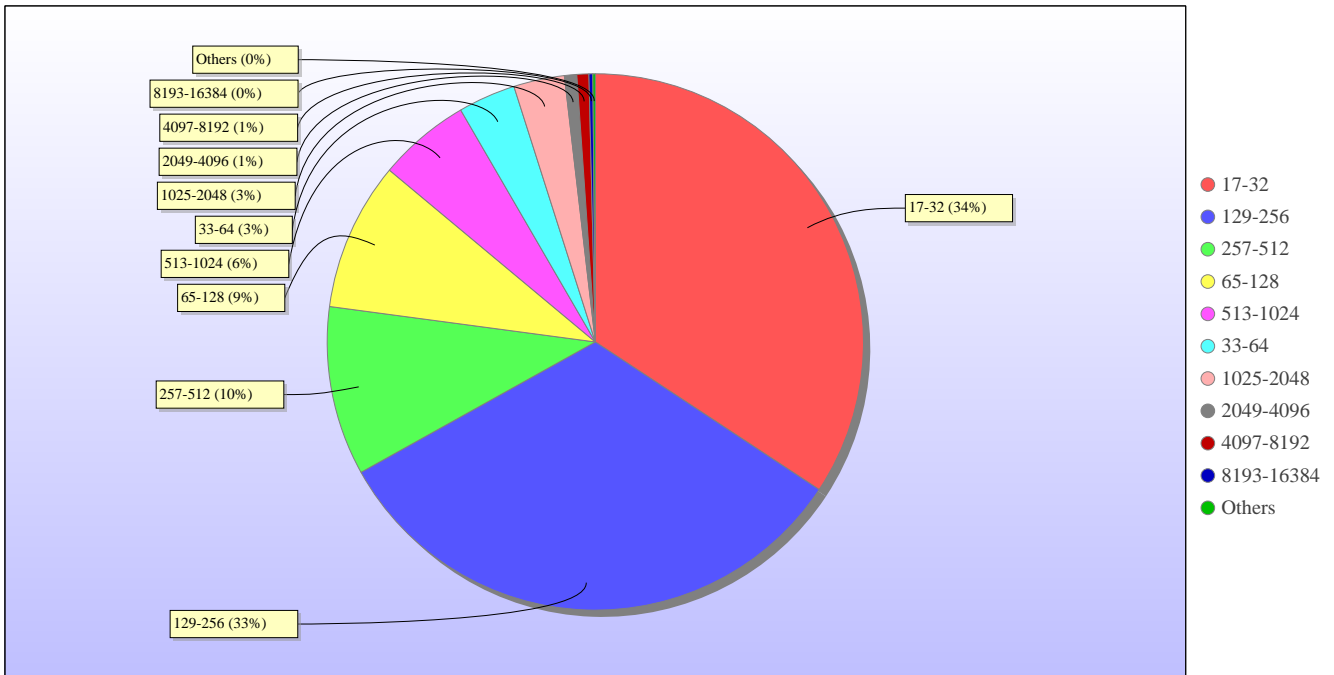
Size	kAUs	Number of Jobs
17-32	5,697.65	15,648
33-64	6,019.261	1,580
65-128	46,233.054	4,088
129-256	143,738.214	14,899
257-512	167,965.142	4,653
513-1024	215,329.876	2,539
1025-2048	190,327.019	1,399
2049-4096	107,160.642	339
4097-8192	90,748.493	329
8193-16384	27,207.355	106
16385-32768	63,024.361	55

Size	kAUs	Number of Jobs
32769-65536	3,597.69	9
65537-131072	12,415.795	4

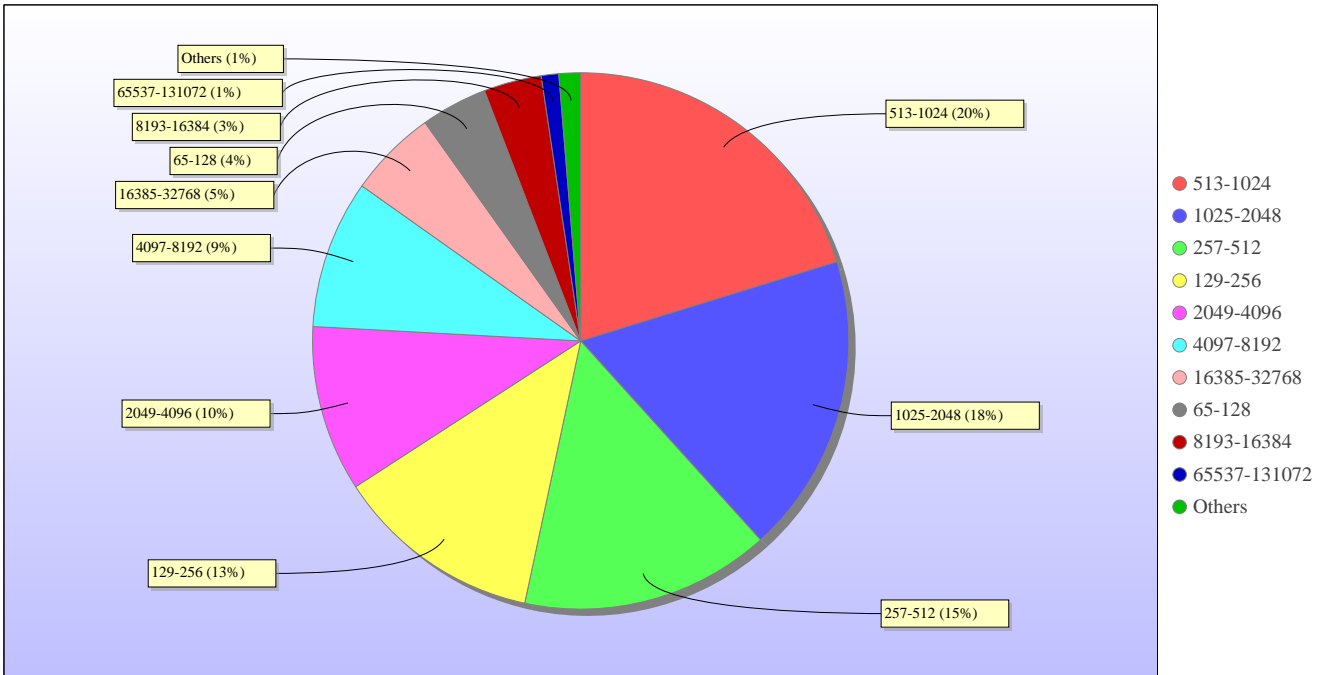
Load plots



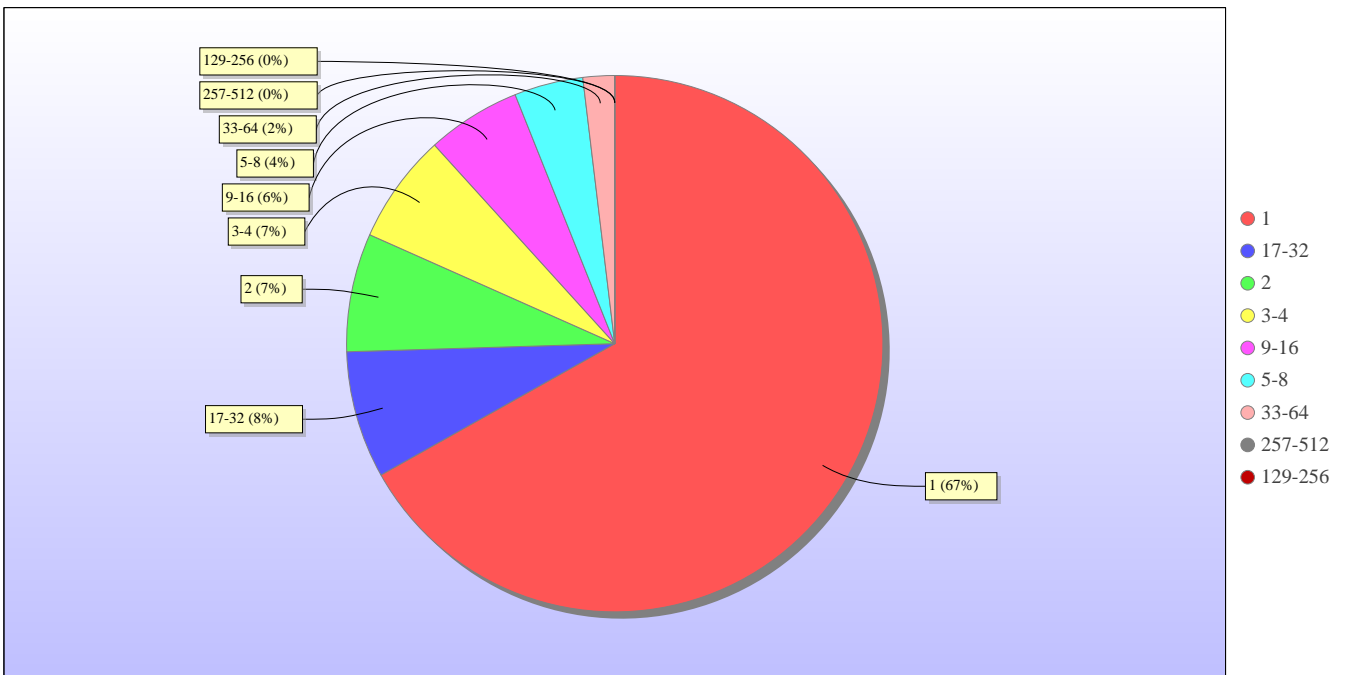
Percentage load on machine



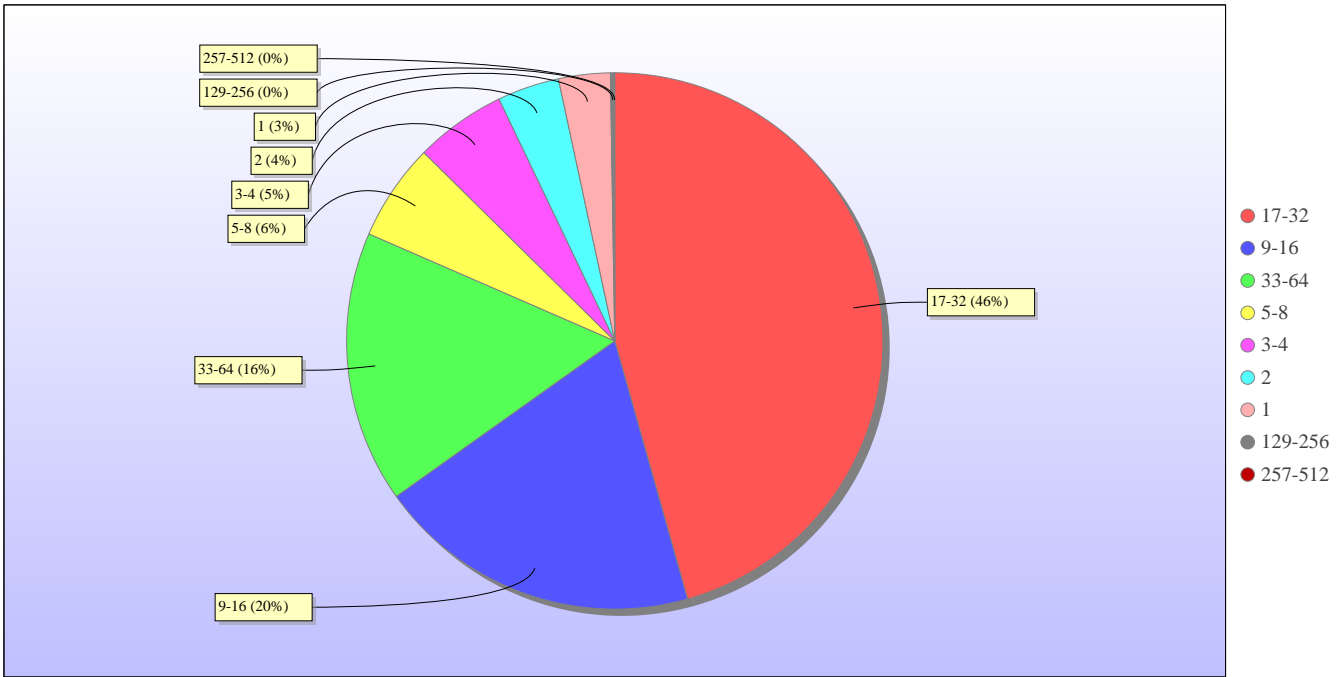
Jobs by Size



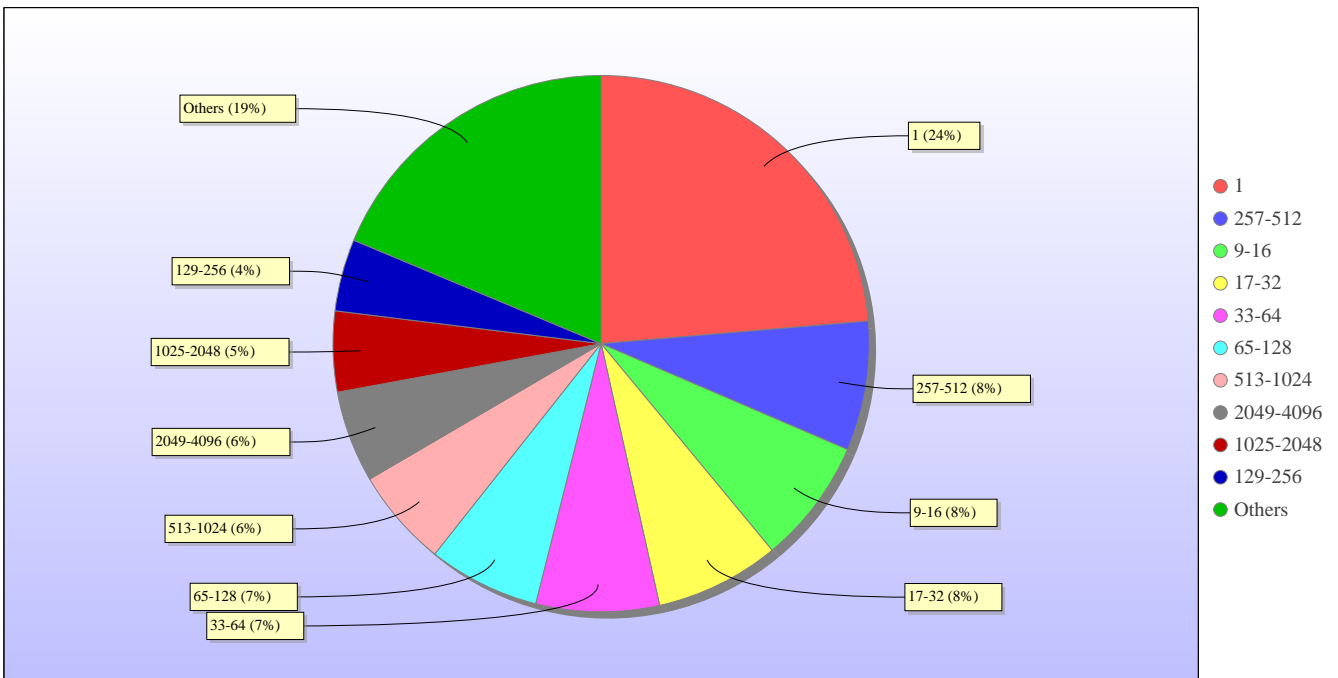
kAUs used by Size



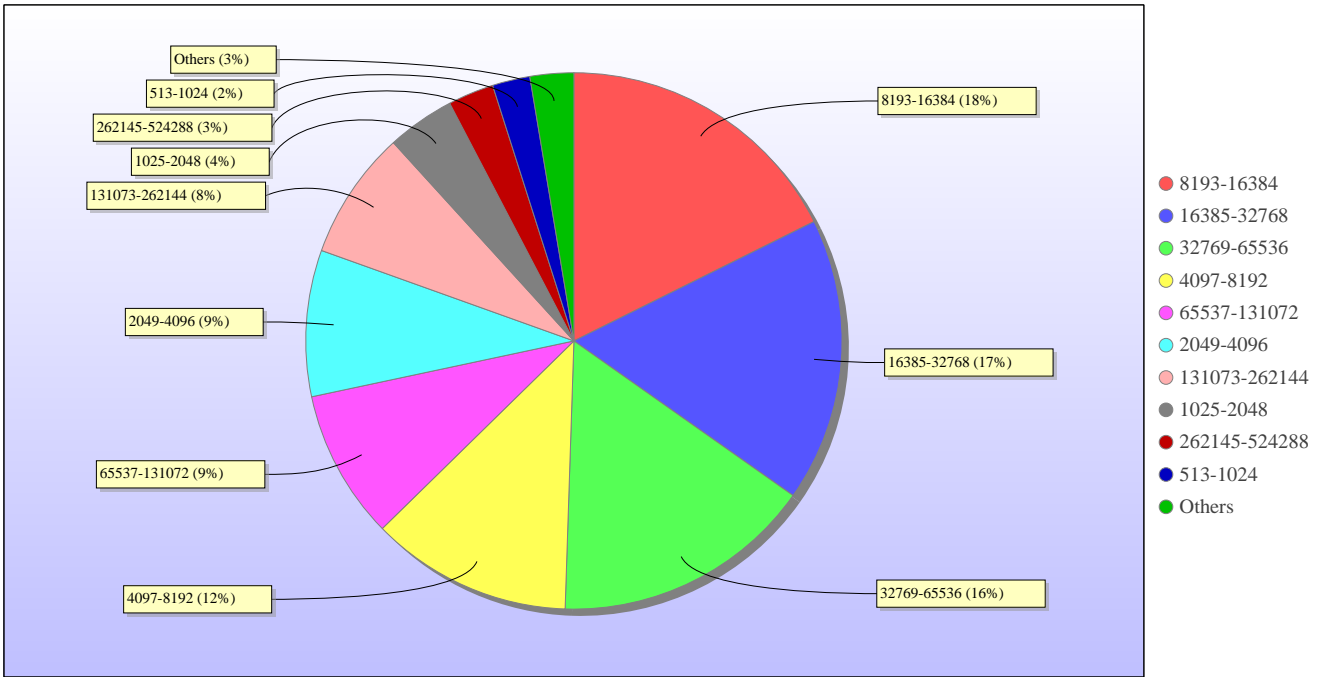
Jobs grouped by wall-clock-hours



kAUs used grouped by wall-clock-hours



Jobs grouped by core-hours

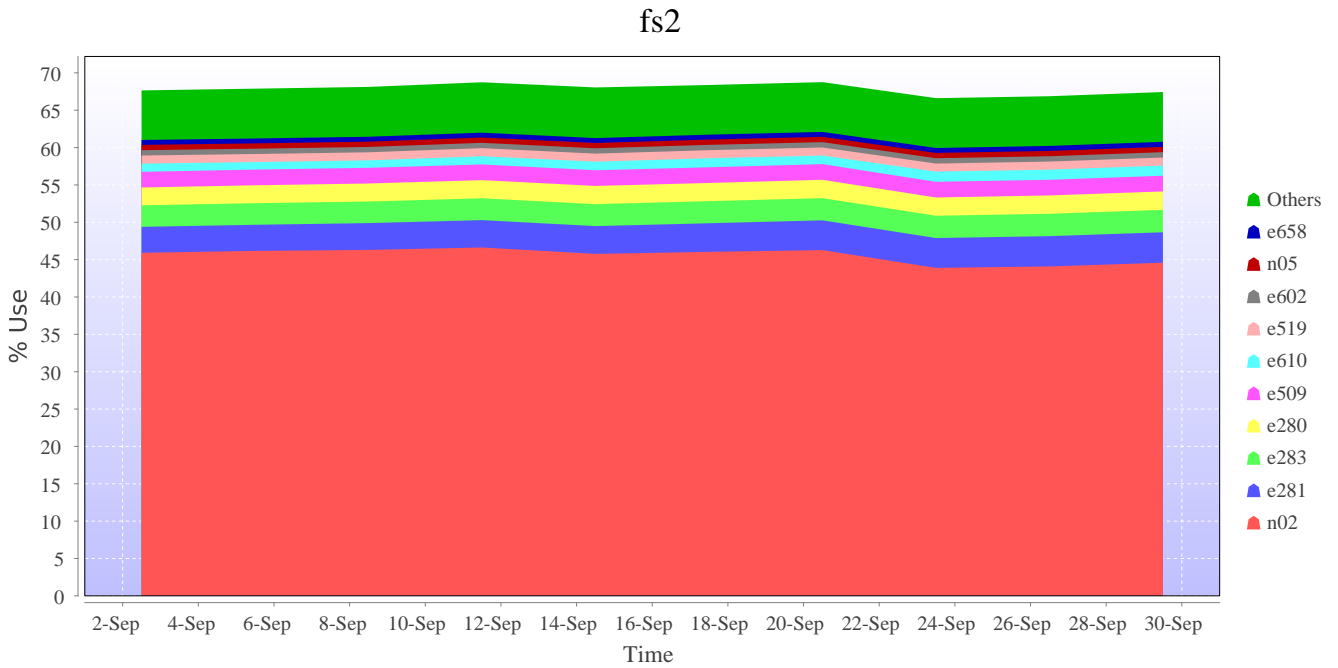


kAUs used grouped by core-hours

Disk usage

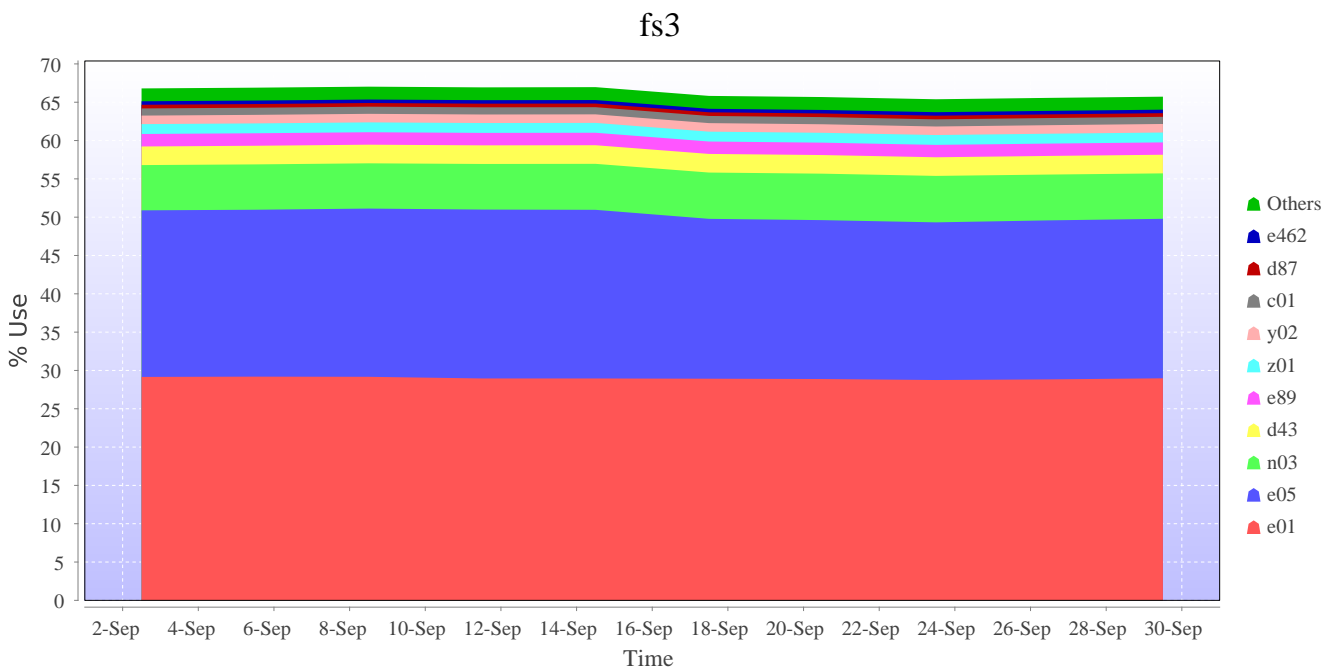
Disk usage for work (fs2)

This is a plot of Disk Use on fs2 against time. The plot is divided into a number of classes according to Project. This is a stacked plot so the top of the plot represents the total usage at a given time.



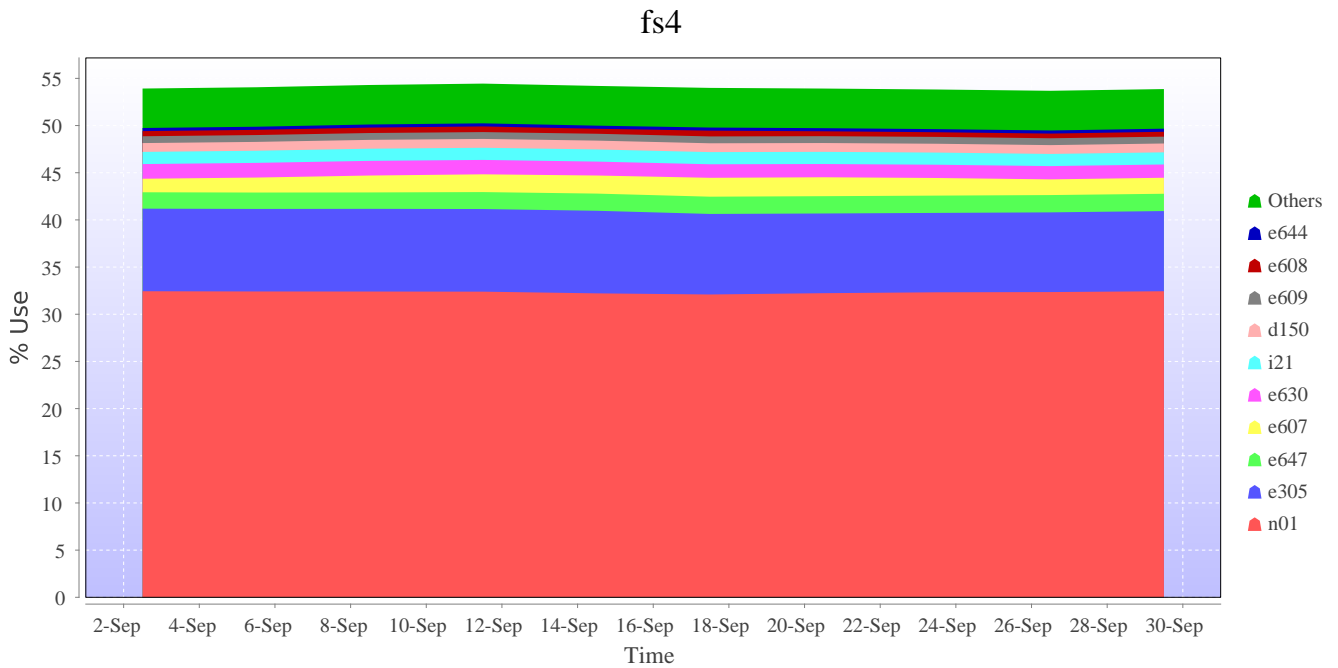
Disk usage for work (fs3)

This is a plot of Disk Use on fs3 against time. The plot is divided into a number of classes according to Project. This is a stacked plot so the top of the plot represents the total usage at a given time.



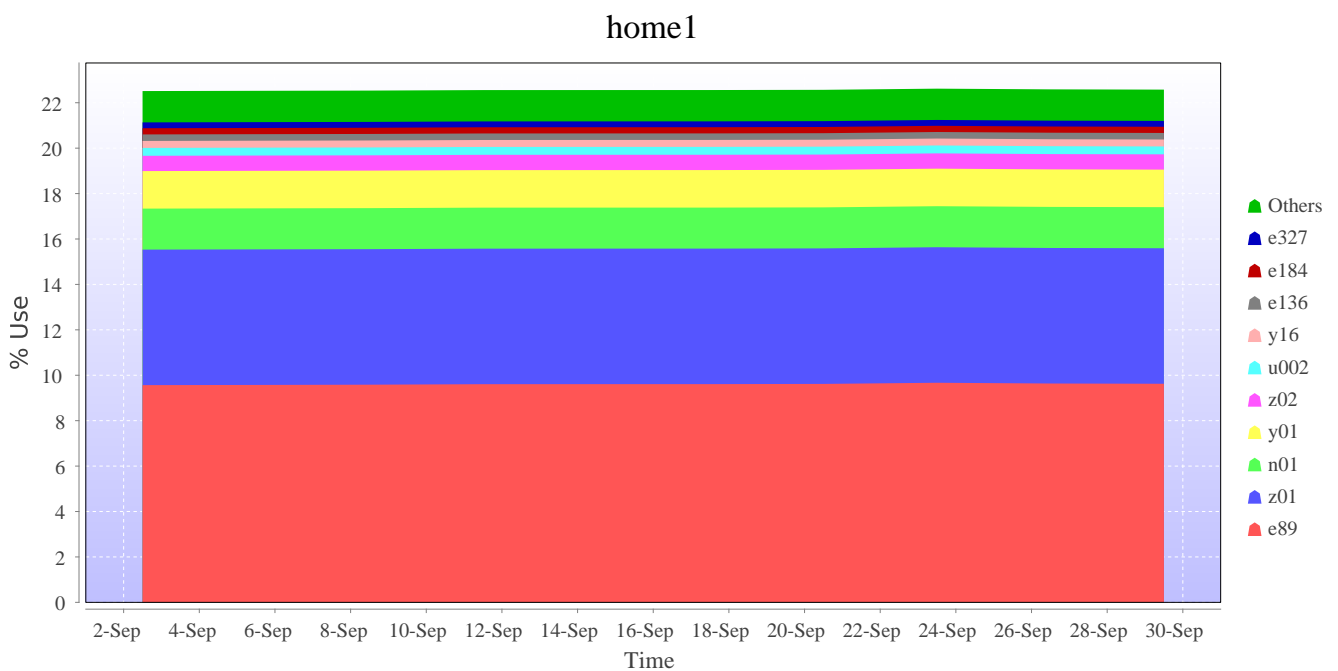
Disk usage for work (fs4)

This is a plot of Disk Use on fs4 against time. The plot is divided into a number of classes according to Project. This is a stacked plot so the top of the plot represents the total usage at a given time.



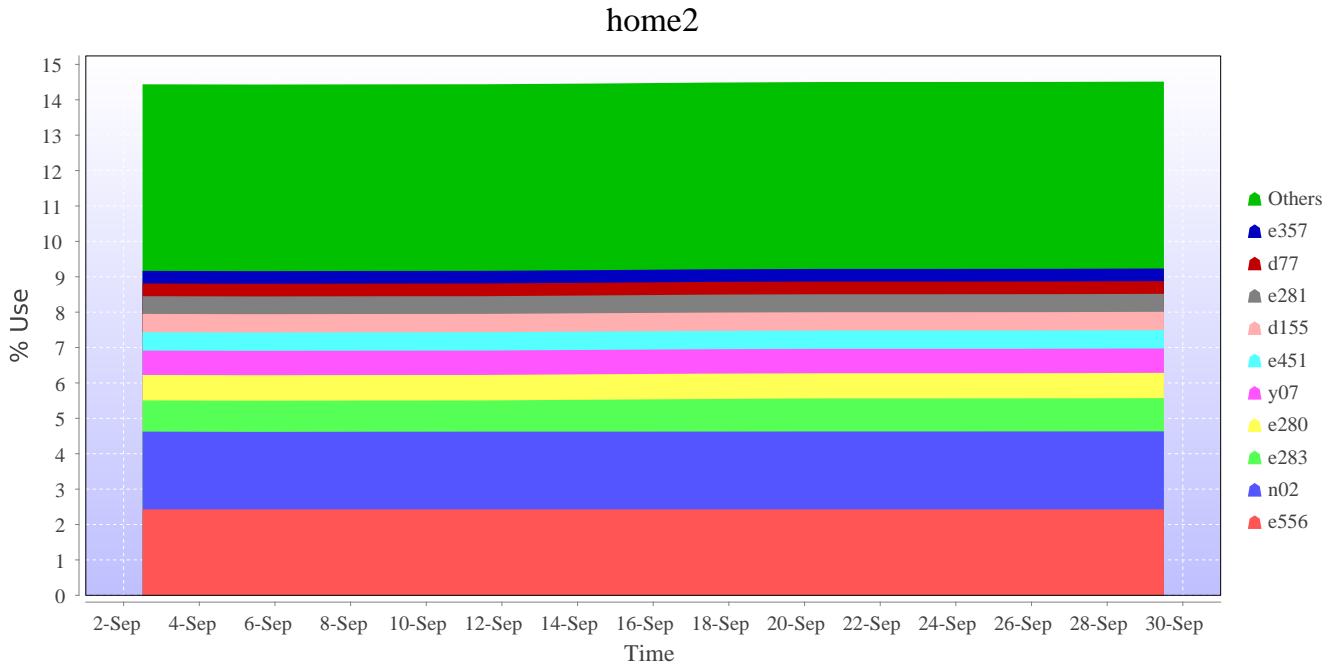
Disk usage for home (home1)

This is a plot of Disk Use on home1 against time. The plot is divided into a number of classes according to Project. This is a stacked plot so the top of the plot represents the total usage at a given time.



Disk usage for home (home2)

This is a plot of Disk Use on home2 against time. The plot is divided into a number of classes according to Project. This is a stacked plot so the top of the plot represents the total usage at a given time.



Disk usage for home (home3)

This is a plot of Disk Use on home3 against time. The plot is divided into a number of classes according to Project. This is a stacked plot so the top of the plot represents the total usage at a given time.

