

Monthly Reporting

Report from 01 September 2017 to 30 September 2017

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.

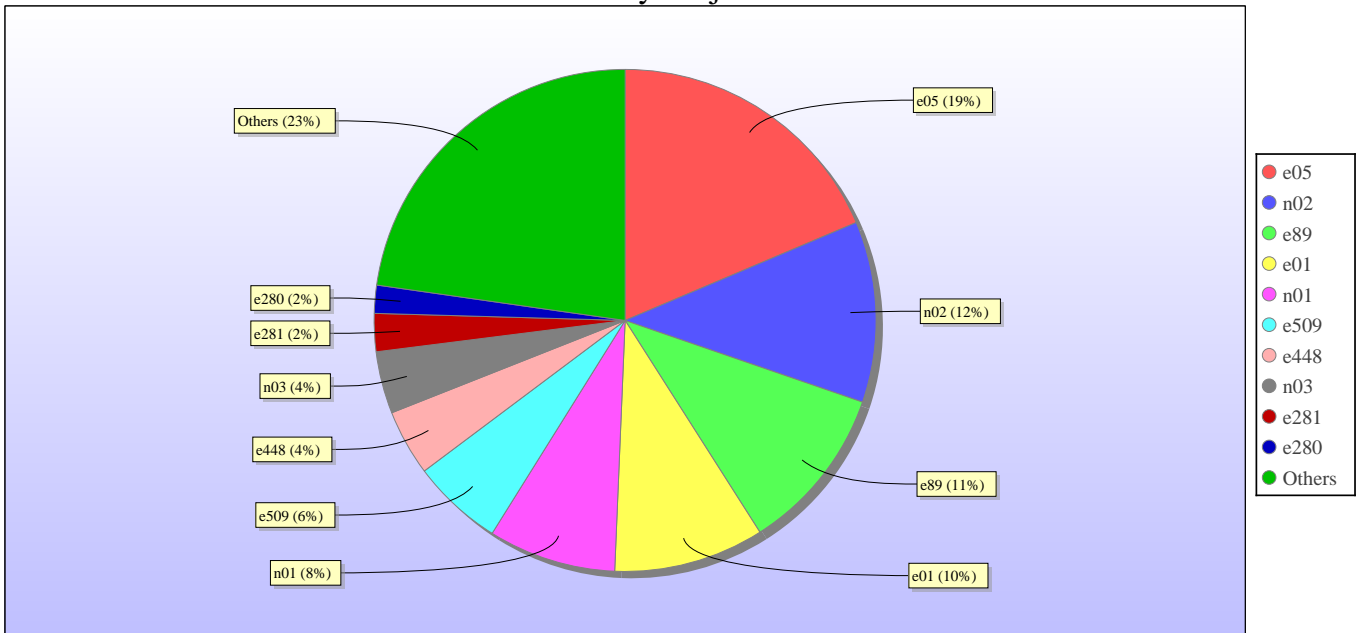
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e01	Consortia	1,720	104,240.5	8.17%	104,240.9	8.17%	75,095.0	5.89%
e05	Consortia	10,155	189,445.7	14.86%	200,422.6	15.72%	210,857.5	16.53%
e89	Consortia	4,723	114,848.8	9.01%	115,217.4	9.03%	117,716.1	9.23%
e280	Consortia	369	19,319.6	1.51%	19,425.4	1.52%	38,777.1	3.04%
e281	Consortia	1,325	26,331.7	2.06%	26,337.7	2.07%	20,686.1	1.62%
e283	Consortia	668	5,331.4	0.42%	5,331.4	0.42%	16,420.8	1.29%
e305	Consortia	849	15,992.5	1.25%	15,993.8	1.25%	21,379.7	1.68%
e529	Consortia	215	11,320.5	0.89%	11,321.2	0.89%	9,942.5	0.78%
e453	Leadership Awards	0	0.0	0.00%	0.0	0.00%	5,542.2	0.43%
e461	Leadership Awards	57	1,043.8	0.08%	1,062.3	0.08%	7,998.1	0.63%
e462	Leadership Awards	154	3,847.0	0.30%	3,847.0	0.30%	4,357.6	0.34%
e464	Leadership Awards	44	3,577.4	0.28%	3,816.3	0.30%	9,595.0	0.75%
e465	Leadership Awards	36	221.0	0.02%	221.0	0.02%	10,198.5	0.80%
e466	Leadership Awards	43	7,282.3	0.57%	11,898.9	0.93%	8,639.3	0.68%
e507	Leadership Awards	92	5,528.6	0.43%	5,528.6	0.43%	9,780.4	0.77%
e509	Leadership Awards	49	63,231.9	4.96%	63,232.3	4.96%	18,196.7	1.43%
e510	Leadership Awards	5	11.7	0.00%	11.7	0.00%	8,150.3	0.64%
e526	Leadership Awards	0	0.0	0.00%	0.0	0.00%	4,971.7	0.39%
n07	Leadership Awards	0	0.0	0.00%	0.0	0.00%	4,932.8	0.39%
n08	Leadership Awards	63	1,701.7	0.13%	1,701.7	0.13%	11,914.6	0.93%
c01	Class1a	206	42.8	0.00%	47.4	0.00%	6,266.5	0.49%
e229	Class1a	0	0.0	0.00%	0.0	0.00%	448.6	0.04%
e272	Class1a	189	2,635.1	0.21%	2,635.1	0.21%	3,278.7	0.26%
e291	Class1a	0	0.0	0.00%	0.0	0.00%	194.8	0.02%
e304	Class1a	160	1,630.1	0.13%	1,630.1	0.13%	5,087.2	0.40%
e332	Class1a	0	0.0	0.00%	0.0	0.00%	318.3	0.02%
e341	Class1a	279	6,615.5	0.52%	6,617.7	0.52%	5,857.5	0.46%
e358	Class1a	498	590.7	0.05%	590.9	0.05%	636.9	0.05%
e365	Class1a	32	711.5	0.06%	711.5	0.06%	4,647.6	0.36%
e375	Class1a	59	662.4	0.05%	662.4	0.05%	2,982.7	0.23%
e378	Class1a	39	535.4	0.04%	535.4	0.04%	4,774.1	0.37%
e403	Class1a	0	0.0	0.00%	0.0	0.00%	8,344.3	0.65%

Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e429	Class1a	39	511.9	0.04%	511.9	0.04%	1,002.3	0.08%
e431	Class1a	154	3,024.7	0.24%	3,024.7	0.24%	918.4	0.07%
e432	Class1a	51	1,704.5	0.13%	1,704.5	0.13%	4,808.7	0.38%
e446	Class1a	248	6,919.2	0.54%	6,919.2	0.54%	16,731.5	1.31%
e448	Class1a	1,658	45,670.6	3.58%	45,670.6	3.58%	40,707.2	3.19%
e451	Class1a	35	4,184.1	0.33%	4,184.1	0.33%	4,772.5	0.37%
e452	Class1a	2	461.9	0.04%	461.9	0.04%	498.1	0.04%
e475	Class1a	66	336.2	0.03%	336.2	0.03%	3,355.3	0.26%
e477	Class1a	88	4,381.4	0.34%	4,381.4	0.34%	4,172.4	0.33%
e480	Class1a	23	853.2	0.07%	853.2	0.07%	3,824.3	0.30%
e499	Class1a	27	2.6	0.00%	2.6	0.00%	10,216.9	0.80%
e513	Class1a	7	19.1	0.00%	19.1	0.00%	130.4	0.01%
e514	Class1a	0	0.0	0.00%	0.0	0.00%	165.7	0.01%
e515	Class1a	15	385.2	0.03%	385.2	0.03%	815.0	0.06%
e516	Class1a	308	10,950.2	0.86%	10,950.2	0.86%	12,183.0	0.96%
e517	Class1a	0	0.0	0.00%	0.0	0.00%	0.0	0.00%
e518	Class1a	17	574.1	0.05%	574.1	0.05%	491.8	0.04%
e519	Class1a	319	13,457.8	1.06%	13,457.8	1.06%	8,196.7	0.64%
e520	Class1a	0	0.0	0.00%	0.0	0.00%	2,445.1	0.19%
e523	Class1a	0	0.0	0.00%	0.0	0.00%	4,890.2	0.38%
e527	Class1a	0	0.0	0.00%	0.0	0.00%	1,141.0	0.09%
e530	Class1a	3	205.4	0.02%	205.4	0.02%	491.8	0.04%
e537	Class1a	54	67.1	0.01%	67.1	0.01%	6,341.0	0.50%
e558	Class1a	0	0.0	0.00%	0.0	0.00%	97.6	0.01%
e554	Class1b	28	21.8	0.00%	21.8	0.00%	81.5	0.01%
e348	Direct Access: ARCHER RAP	83	4,068.0	0.32%	4,068.0	0.32%	3,552.5	0.28%
e484	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	1,496.7	0.12%
e541	Direct Access: ARCHER RAP	28	36.8	0.00%	36.8	0.00%	2,627.5	0.21%
e542	Direct Access: ARCHER RAP	7	133.8	0.01%	133.8	0.01%	1,590.7	0.12%
e543	Direct Access: ARCHER RAP	1	247.4	0.02%	247.4	0.02%	2,073.6	0.16%
e545	Direct Access: ARCHER RAP	4	0.1	0.00%	0.1	0.00%	796.8	0.06%
e546	Direct Access: ARCHER RAP	65	3,148.8	0.25%	3,148.8	0.25%	2,394.2	0.19%
e547	Direct Access: ARCHER RAP	88	2,680.0	0.21%	2,680.0	0.21%	2,445.1	0.19%
e548	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	2,272.4	0.18%
e549	Direct Access: ARCHER RAP	64	3,992.1	0.31%	3,992.1	0.31%	1,610.6	0.13%
e550	Direct Access: ARCHER RAP	61	425.3	0.03%	425.3	0.03%	2,465.8	0.19%
e552	Direct Access: ARCHER RAP	7	3,969.4	0.31%	3,973.7	0.31%	3,035.0	0.24%
e553	Direct Access: ARCHER RAP	130	7,658.7	0.60%	7,658.7	0.60%	3,002.8	0.24%
e531	Instant Access	0	0.0	0.00%	0.0	0.00%	104.4	0.01%
e532	Instant Access	0	0.0	0.00%	0.0	0.00%	188.9	0.01%
e533	Instant Access	0	0.0	0.00%	0.0	0.00%	196.7	0.02%
e534	Instant Access	0	0.0	0.00%	0.0	0.00%	196.7	0.02%
e535	Instant Access	0	0.0	0.00%	0.0	0.00%	196.7	0.02%
e536	Instant Access	0	0.0	0.00%	0.0	0.00%	195.6	0.02%
e544	Instant Access	0	0.0	0.00%	0.0	0.00%	188.4	0.01%
e555	Instant Access	0	0.0	0.00%	0.0	0.00%	185.6	0.01%
e557	Instant Access	0	0.0	0.00%	0.0	0.00%	8.2	0.00%
e508	Training	24	0.2	0.00%	3.6	0.00%	1,995.7	0.16%
e521	Training	55	621.8	0.05%	621.8	0.05%	1,707.4	0.13%
e538	Training	623	2,902.4	0.23%	2,902.5	0.23%	2,803.3	0.22%
e556	Training	608	4,624.9	0.36%	4,624.9	0.36%	1,108.7	0.09%

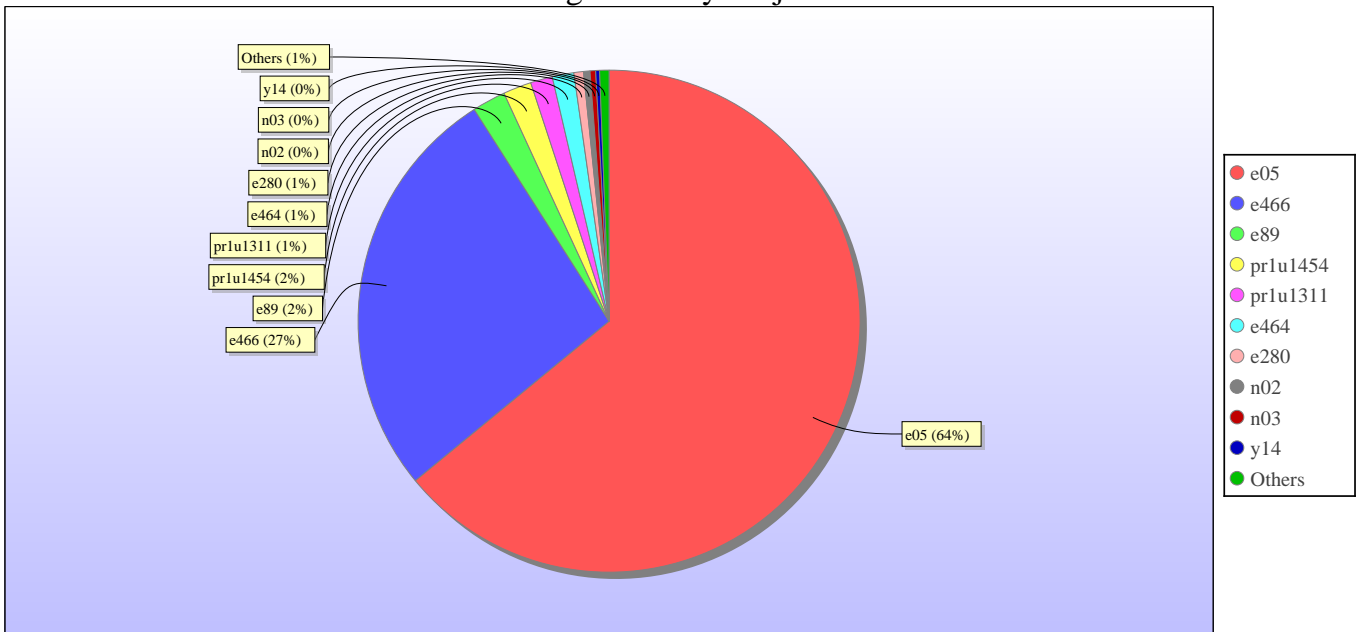
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
EPSRC Total		27,019	714,940.0	56.06%	731,289.0	57.34%	824,908.1	64.69%
n01	Consortia	3,408	89,041.4	6.98%	88,518.6	6.94%	49,315.1	3.87%
n02	Consortia	13,558	126,838.3	9.95%	125,401.6	9.83%	156,164.4	12.25%
n03	Consortia	2,091	42,957.5	3.37%	43,019.4	3.37%	63,534.2	4.98%
NERC Total		19,057	258,837.2	20.30%	256,939.6	20.15%	269,013.7	21.09%
pr1u1360	DECI: EXEC	105	1,272.8	0.10%	1,272.8	0.10%	3,378.8	0.26%
pr1u1362	DECI: EXEC	187	495.4	0.04%	495.4	0.04%	797.9	0.06%
pr1u1363	DECI: EXEC	4	0.0	0.00%	0.0	0.00%	2,604.6	0.20%
pr1u1451	DECI: EXEC	88	5,901.1	0.46%	5,901.1	0.46%	5,471.1	0.43%
pr1u1452	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	5,471.1	0.43%
pr1u1453	DECI: EXEC	17	148.7	0.01%	148.7	0.01%	13,677.8	1.07%
pr1u1454	DECI: EXEC	82	12,607.0	0.99%	12,919.7	1.01%	6,105.8	0.48%
pr1u1455	DECI: EXEC	18	1.4	0.00%	1.4	0.00%	1,555.9	0.12%
pr1u1456	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	5,161.6	0.40%
pr1u1457	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	242.4	0.02%
pr1utd01	DECI: EXEC	4	14.8	0.00%	14.8	0.00%	189.1	0.01%
pr1u1304	DECI: HOME	273	4,542.2	0.36%	4,542.2	0.36%	4,350.0	0.34%
pr1u1311	DECI: HOME	383	3,298.1	0.26%	3,540.0	0.28%	656.4	0.05%
pr1u1364	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1401	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1402	DECI: HOME	11	93.1	0.01%	93.1	0.01%	829.6	0.07%
pr1u1403	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1404	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1405	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1406	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1407	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1408	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1409	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1410	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1411	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
PRACE Total		1,172	28,374.7	2.23%	28,929.4	2.27%	50,492.8	3.96%
ecse0103	eCSE	0	0.0	0.00%	0.0	0.00%	25.7	0.00%
ecse0706	eCSE	0	0.0	0.00%	0.0	0.00%	130.6	0.01%
ecse0715	eCSE	0	0.0	0.00%	0.0	0.00%	39.3	0.00%
ecse0716	eCSE	0	0.0	0.00%	0.0	0.00%	88.2	0.01%
ecse0803	eCSE	0	0.0	0.00%	0.0	0.00%	44.9	0.00%
ecse0804	eCSE	1	0.0	0.00%	0.0	0.00%	36.9	0.00%
ecse0807	eCSE	0	0.0	0.00%	0.0	0.00%	37.7	0.00%
ecse0809	eCSE	0	0.0	0.00%	0.0	0.00%	67.2	0.01%
ecse0814	eCSE	42	0.1	0.00%	0.1	0.00%	44.0	0.00%
ecse0815	eCSE	0	0.0	0.00%	0.0	0.00%	39.7	0.00%
ecse0820	eCSE	77	5.0	0.00%	5.0	0.00%	45.6	0.00%
ecse0904	eCSE	0	0.0	0.00%	0.0	0.00%	41.2	0.00%
ecse0910	eCSE	6	3.9	0.00%	3.9	0.00%	39.1	0.00%
ecse0919	eCSE	113	31.2	0.00%	31.2	0.00%	35.2	0.00%
eCSE Total		239	40.1	0.00%	40.1	0.00%	715.4	0.06%
d43	ECDF	6	2,234.0	0.18%	2,234.0	0.18%	5,753.4	0.45%
d25	Research	112	739.9	0.06%	739.9	0.06%	784.1	0.06%
d35	Research	113	42.4	0.00%	42.4	0.00%	411.0	0.03%
d56	Research	279	4,761.5	0.37%	4,789.2	0.38%	4,890.2	0.38%
d60	Research	0	0.0	0.00%	0.0	0.00%	197.4	0.02%
d67	Research	0	0.0	0.00%	0.0	0.00%	411.0	0.03%
d71	Research	261	1,824.8	0.14%	1,825.0	0.14%	559.3	0.04%
d88	Research	13	4.7	0.00%	4.7	0.00%	13.0	0.00%
d96	Research	30	5,504.2	0.43%	5,504.2	0.43%	1,643.8	0.13%
d100	Research	0	0.0	0.00%	0.0	0.00%	352.1	0.03%
d101	Research	24	84.6	0.01%	84.6	0.01%	411.0	0.03%
d107	Research	11	0.4	0.00%	0.4	0.00%	411.0	0.03%
d114	Research	202	11,272.1	0.88%	11,272.4	0.88%	9,716.3	0.76%
d121	Research	0	0.0	0.00%	0.0	0.00%	0.0	0.00%
d137	Research	7	1,680.7	0.13%	1,680.7	0.13%	2,465.8	0.19%
d141	Research	0	0.0	0.00%	0.0	0.00%	246.6	0.02%
d142	Research	33	2,800.0	0.22%	2,800.0	0.22%	5,705.2	0.45%

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d143	Research	58	310.2	0.02%	310.2	0.02%	4,075.2	0.32%
d145	Research	16	9,745.2	0.76%	9,745.2	0.76%	2,465.8	0.19%
d146	Research	2	0.0	0.00%	0.0	0.00%	510.2	0.04%
d149	Research	0	0.0	0.00%	0.0	0.00%	4,109.6	0.32%
d150	Research	50	1,487.5	0.12%	1,487.5	0.12%	9,454.4	0.74%
d152	Research	0	0.0	0.00%	0.0	0.00%	295.1	0.02%
d132	Industrial	0	0.0	0.00%	0.0	0.00%	104.9	0.01%
d153	Industrial	0	0.0	0.00%	0.0	0.00%	1,212.3	0.10%
e540	Industrial	0	0.0	0.00%	0.0	0.00%	1,587.0	0.12%
i01	Industrial	0	0.0	0.00%	0.0	0.00%	76.7	0.01%
i07	Industrial	0	0.0	0.00%	0.0	0.00%	1,082.5	0.08%
i22	Industrial	0	0.0	0.00%	0.0	0.00%	25.8	0.00%
i200	Industrial	0	0.0	0.00%	0.0	0.00%	218.2	0.02%
i219	Industrial	0	0.0	0.00%	0.0	0.00%	163.0	0.01%
x06	Industrial	0	0.0	0.00%	0.0	0.00%	2.6	0.00%
x08	Industrial	99	302.9	0.02%	302.9	0.02%	1,315.1	0.10%
d74	Training	0	0.0	0.00%	0.0	0.00%	53.4	0.00%
d133	Training	0	0.0	0.00%	0.0	0.00%	41.1	0.00%
d154	Training	19	0.2	0.00%	0.2	0.00%	163.5	0.01%
e482	Training	0	0.0	0.00%	0.0	0.00%	493.2	0.04%
d131	Service	24	63.7	0.00%	63.7	0.00%	824.2	0.06%
d134	Service	0	0.0	0.00%	0.0	0.00%	195.6	0.02%
w12	Service	6	197.3	0.02%	197.3	0.02%	81.5	0.01%
w13	Service	33	462.0	0.04%	462.0	0.04%	195.7	0.02%
w14	Service	0	0.0	0.00%	0.0	0.00%	32.6	0.00%
w15	Service	0	0.0	0.00%	0.0	0.00%	491.8	0.04%
y01	Service	0	0.0	0.00%	0.0	0.00%	8.2	0.00%
y02	Service	23	2.2	0.00%	2.8	0.00%	164.4	0.01%
y07	Service	12	0.1	0.00%	0.1	0.00%	82.2	0.01%
z02	Service	0	0.0	0.00%	0.0	0.00%	411.0	0.03%
z17	Service	28	1,782.3	0.14%	1,782.3	0.14%	326.0	0.03%
z99	Service	34	0.2	0.00%	0.2	0.00%	8.2	0.00%
d84	UoE Seedcorn	0	0.0	0.00%	0.0	0.00%	411.0	0.03%
d147	UoE Seedcorn	0	0.0	0.00%	0.0	0.00%	125.0	0.01%
d148	UoE Seedcorn	0	0.0	0.00%	0.0	0.00%	196.7	0.02%
d108	UoE Supercomputing	23	1.1	0.00%	1.1	0.00%	287.6	0.02%
DirectorsTime Total		1,518	45,304.0	3.55%	45,332.8	3.55%	65,262.2	5.12%
y14	Training	2,444	1,067.7	0.08%	760.9	0.06%	575.3	0.05%
y21	Service	0	0.0	0.00%	0.0	0.00%	75.8	0.01%
z01	Service	0	0.0	0.00%	0.0	0.00%	41.1	0.00%
z19	Service	213	4,863.9	0.38%	4,864.2	0.38%	5,342.5	0.42%
CSE Total		2,657	5,931.5	0.47%	5,625.2	0.44%	6,034.7	0.47%
i18	Industrial	25	8,134.8	0.64%	8,134.8	0.64%	1,554.7	0.12%
i21	Industrial	0	0.0	0.00%	0.0	0.00%	187.5	0.01%
Industrial Total		25	8,134.8	0.64%	8,134.8	0.64%	1,742.2	0.14%
w03	Service	0	0.0	0.00%	0.0	0.00%	93.9	0.01%
Internal Total		0	0.0	0.00%	0.0	0.00%	93.9	0.01%
Total		51,687	1,061,562.5	83.24%	1,076,290.9	84.40%	1,218,262.9	95.53%

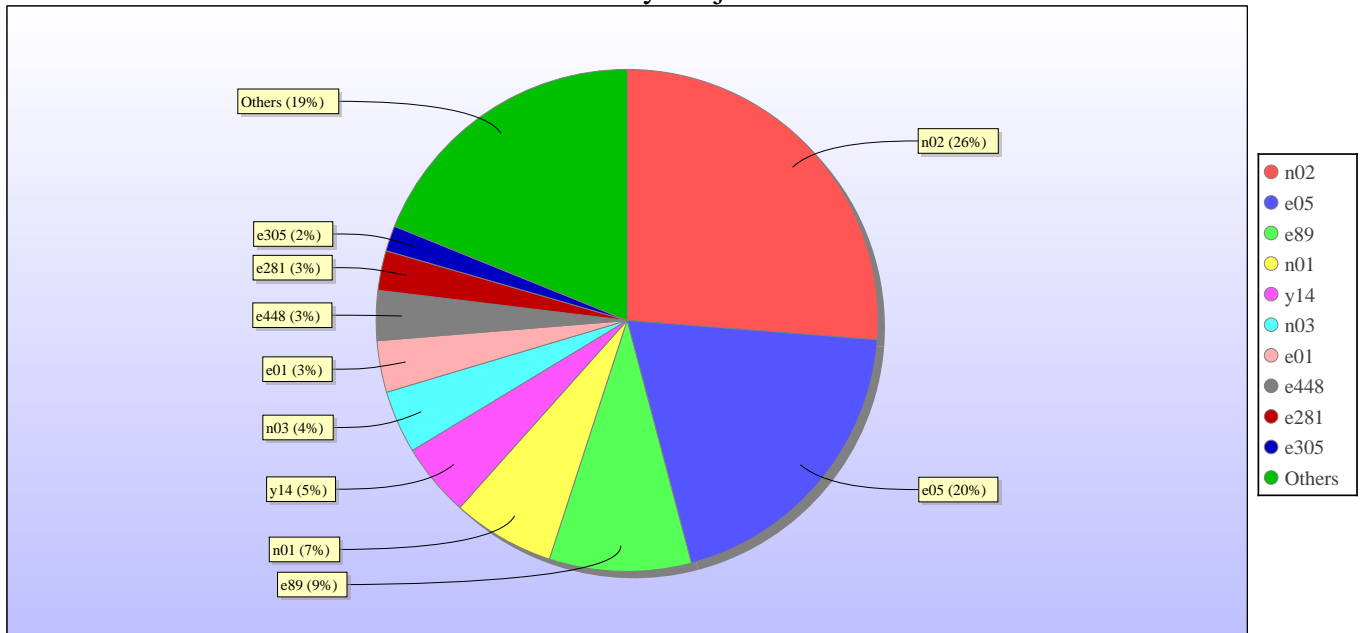
Use by Project



Uncharged Use by Project



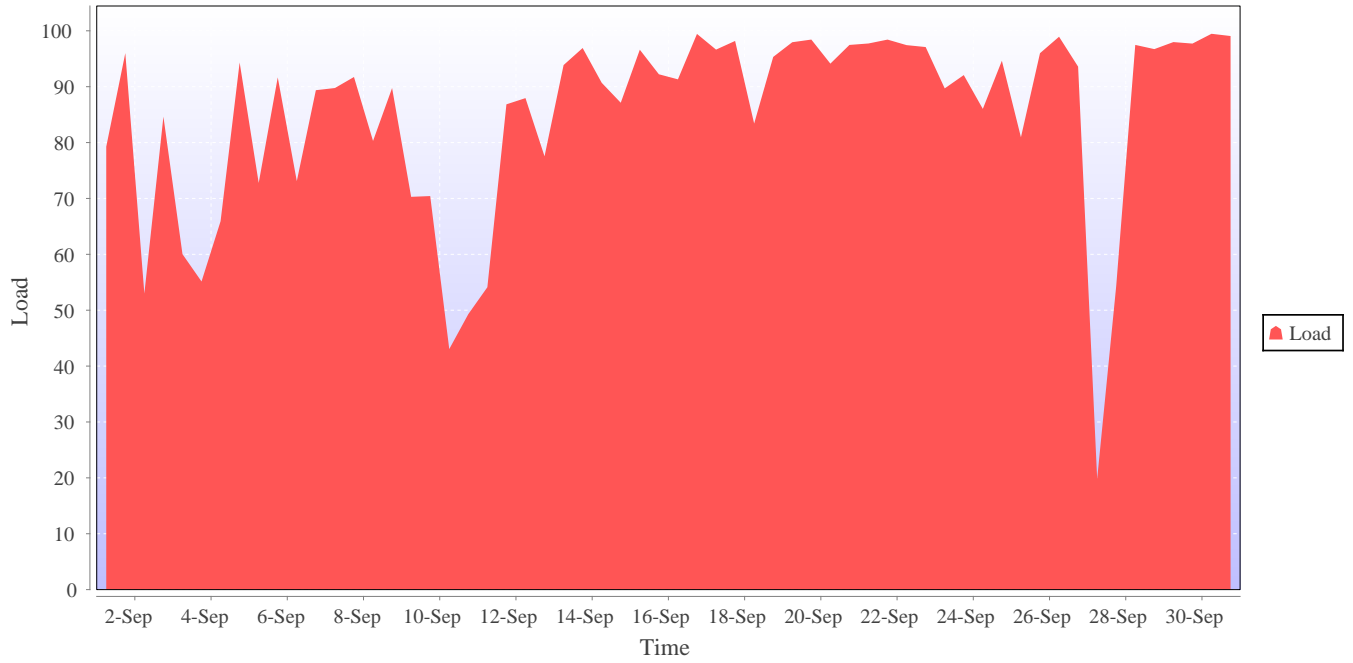
Jobs by Project



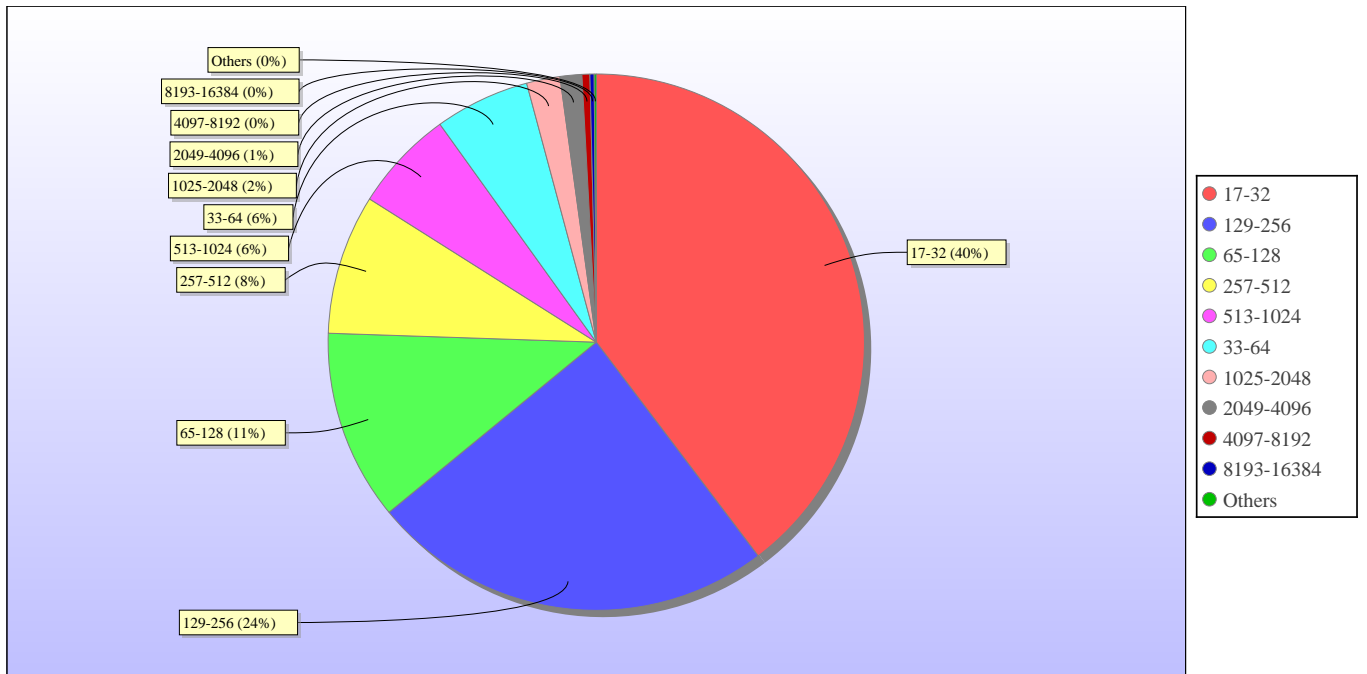
kAUs (by Size)

Size	kAUs	Number of Jobs
17-32	12,654.531	20,507
33-64	9,447.33	2,958
65-128	49,329.414	5,928
129-256	171,510.381	12,597
257-512	157,738.369	4,359
513-1024	166,464.516	3,166
1025-2048	137,541.257	1,042
2049-4096	92,207.796	677
4097-8192	93,710.696	246
8193-16384	57,155.553	131
16385-32768	90,617.325	50
32769-65536	15,600.289	14
65537-131072	348.996	1

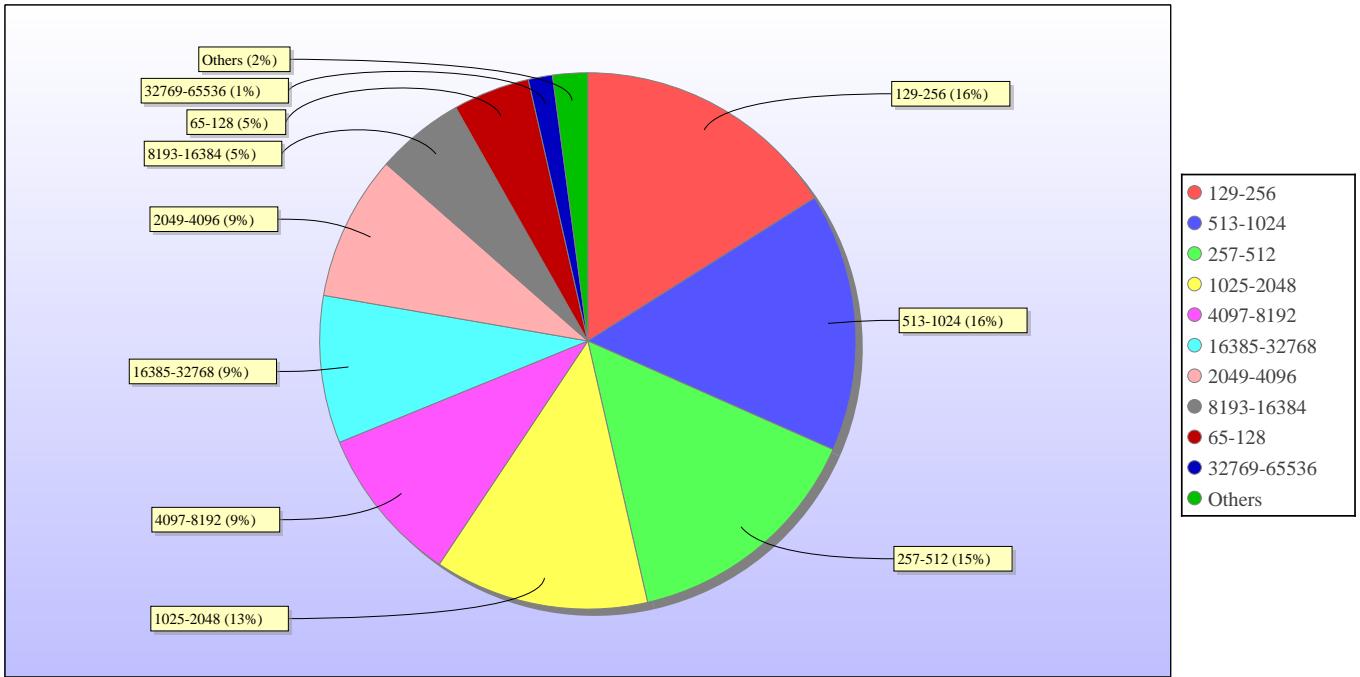
Load plots



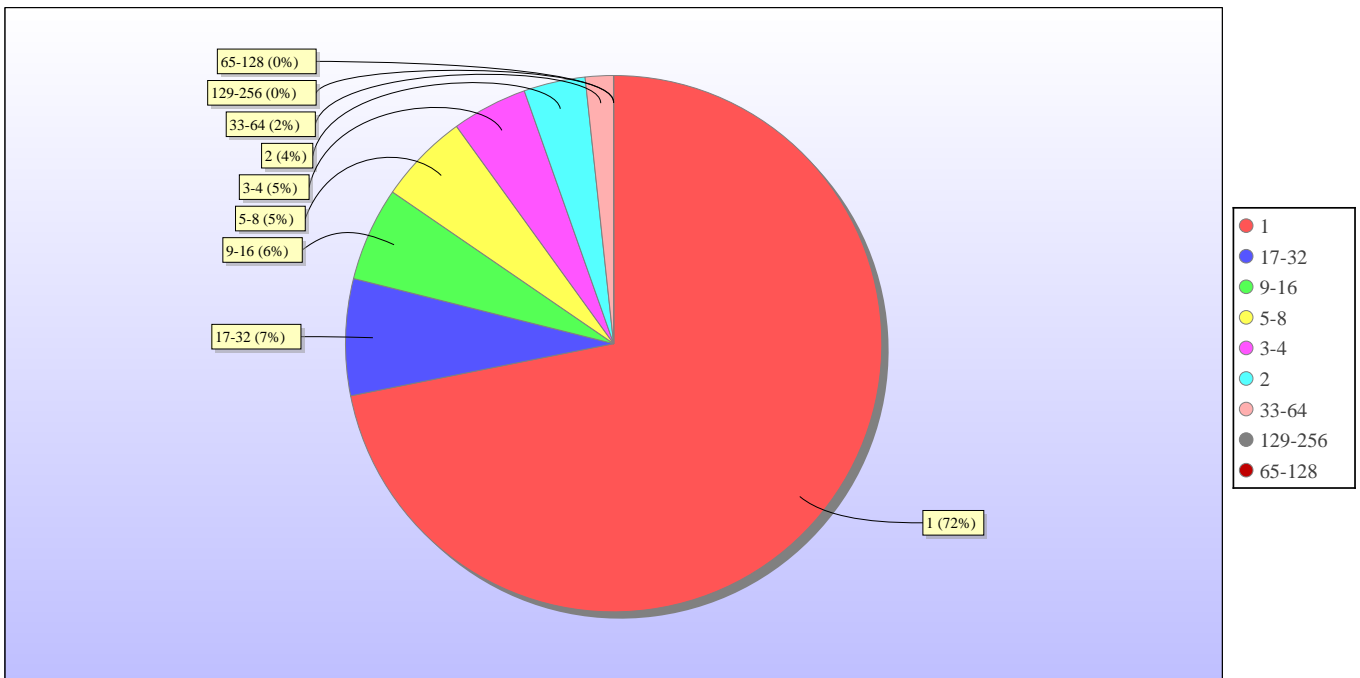
Percentage load on machine



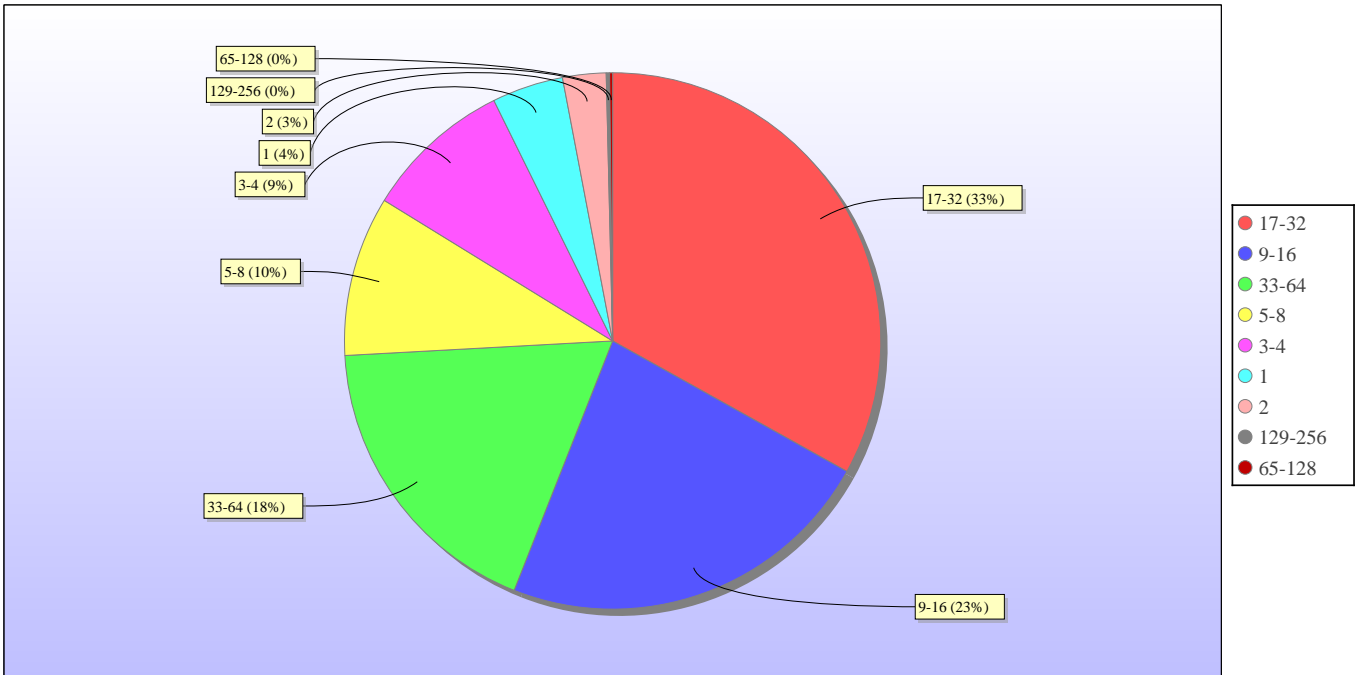
Jobs by Size



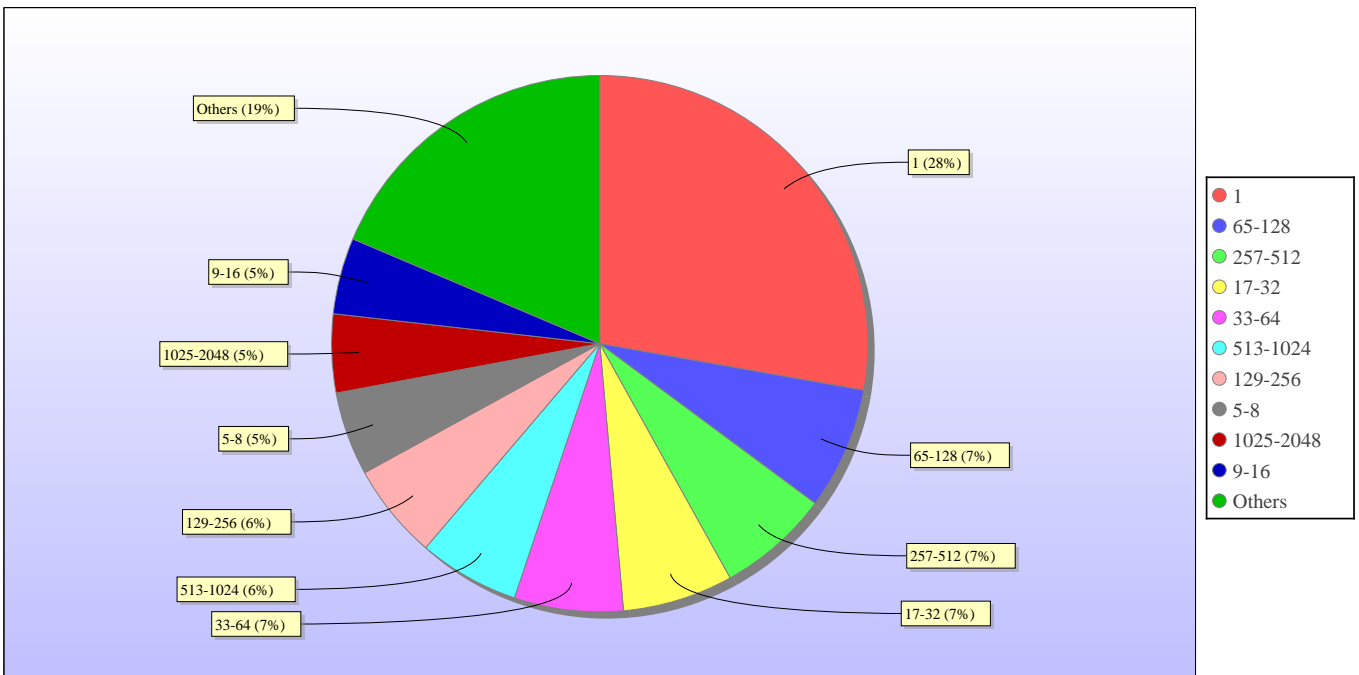
kAUs used by Size



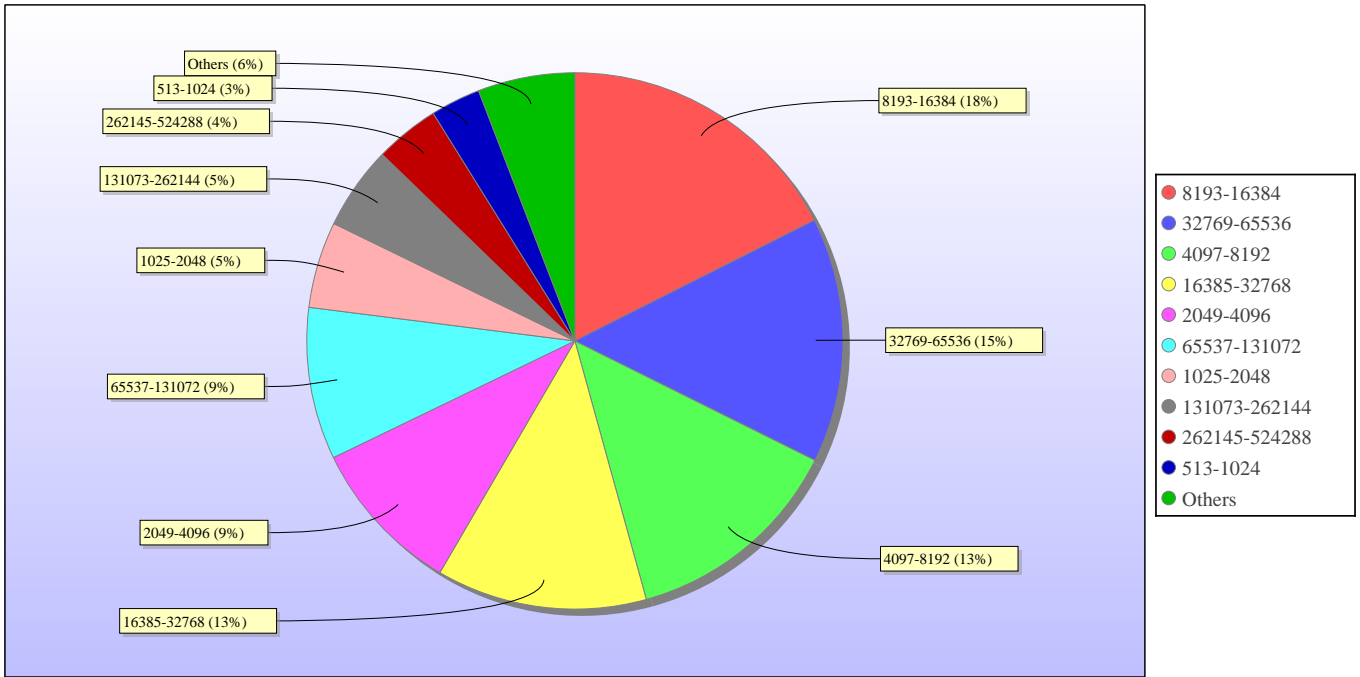
Jobs grouped by wall-clock-hours



kAUs used grouped by wall-clock-hours



Jobs grouped by core-hours

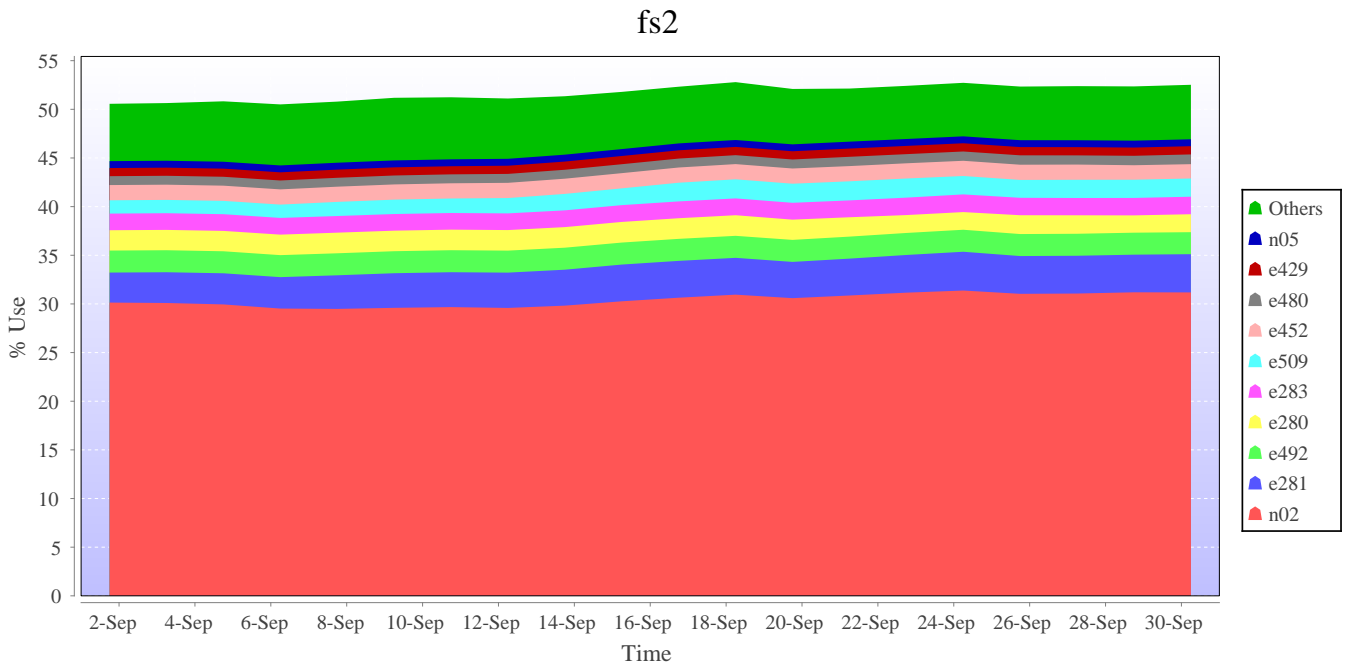


kAUs used grouped by core-hours

Disk usage

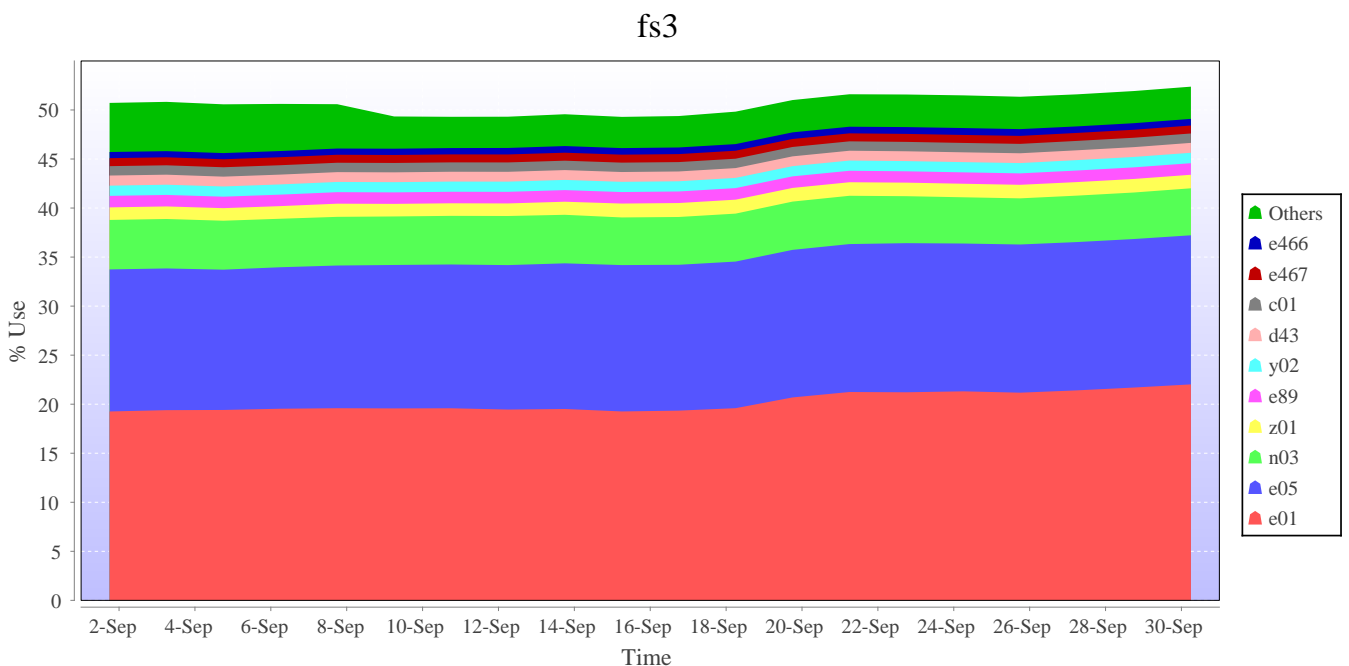
Disk usage for work (fs2)

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.



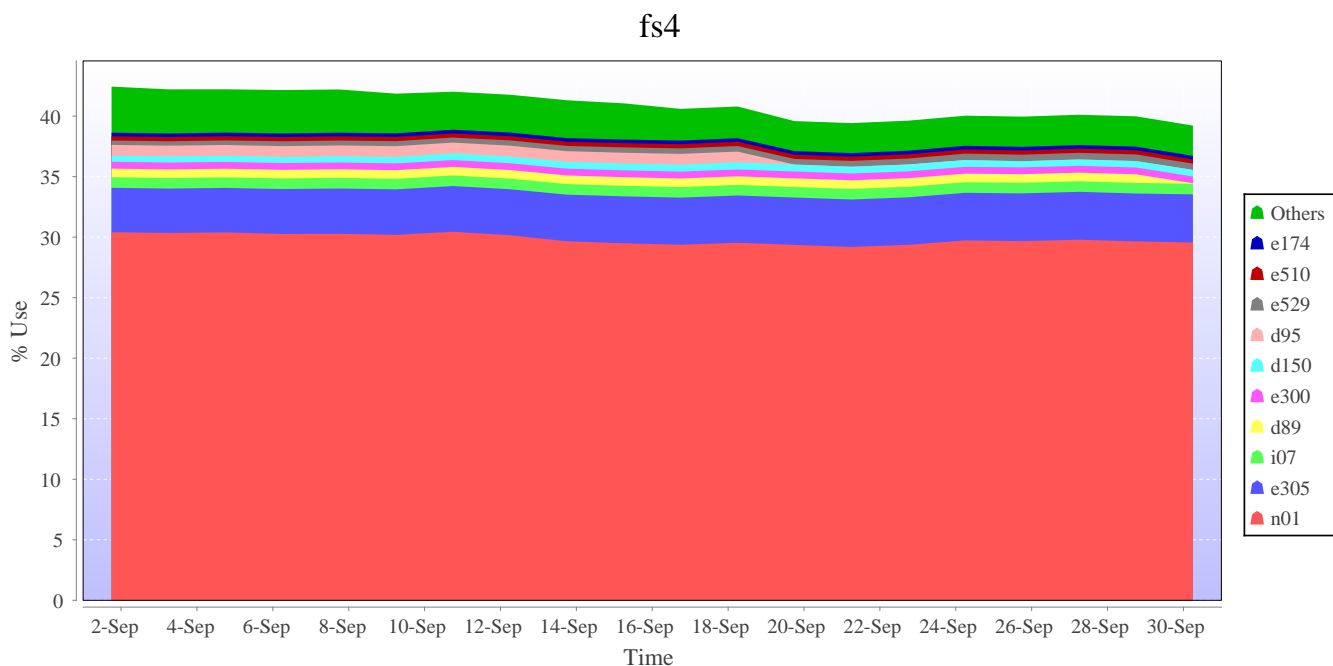
Disk usage for work (fs3)

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.



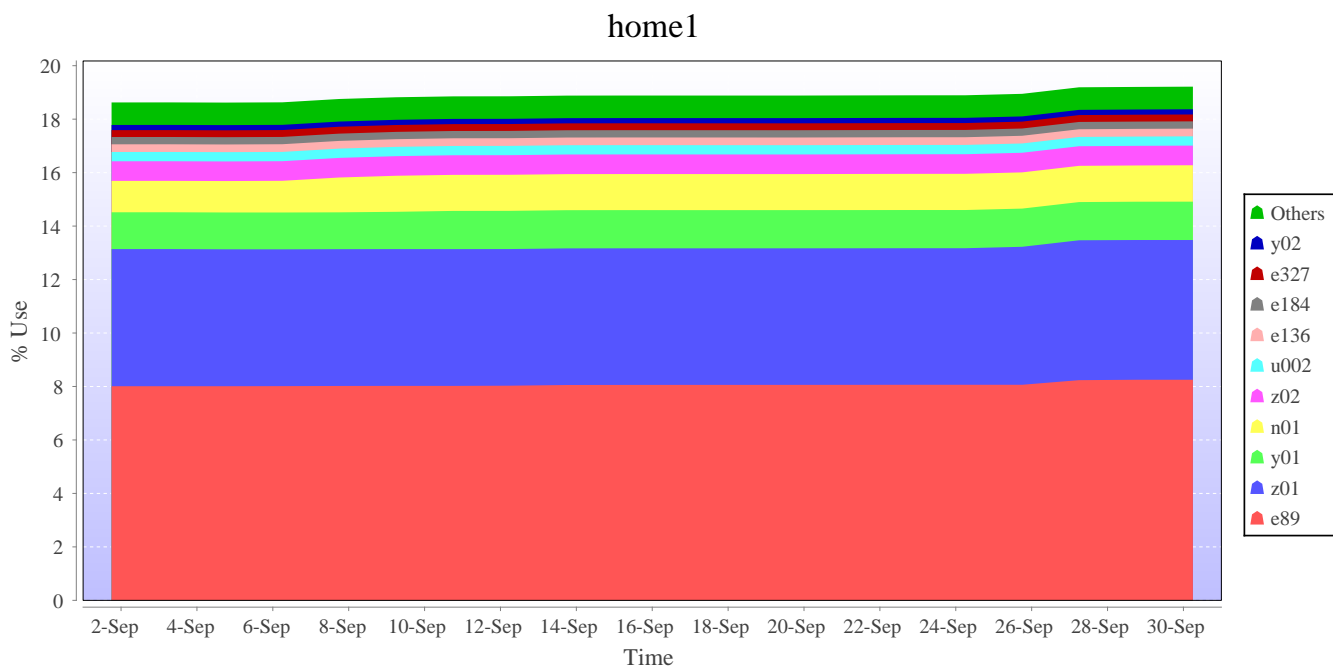
Disk usage for work (fs4)

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.



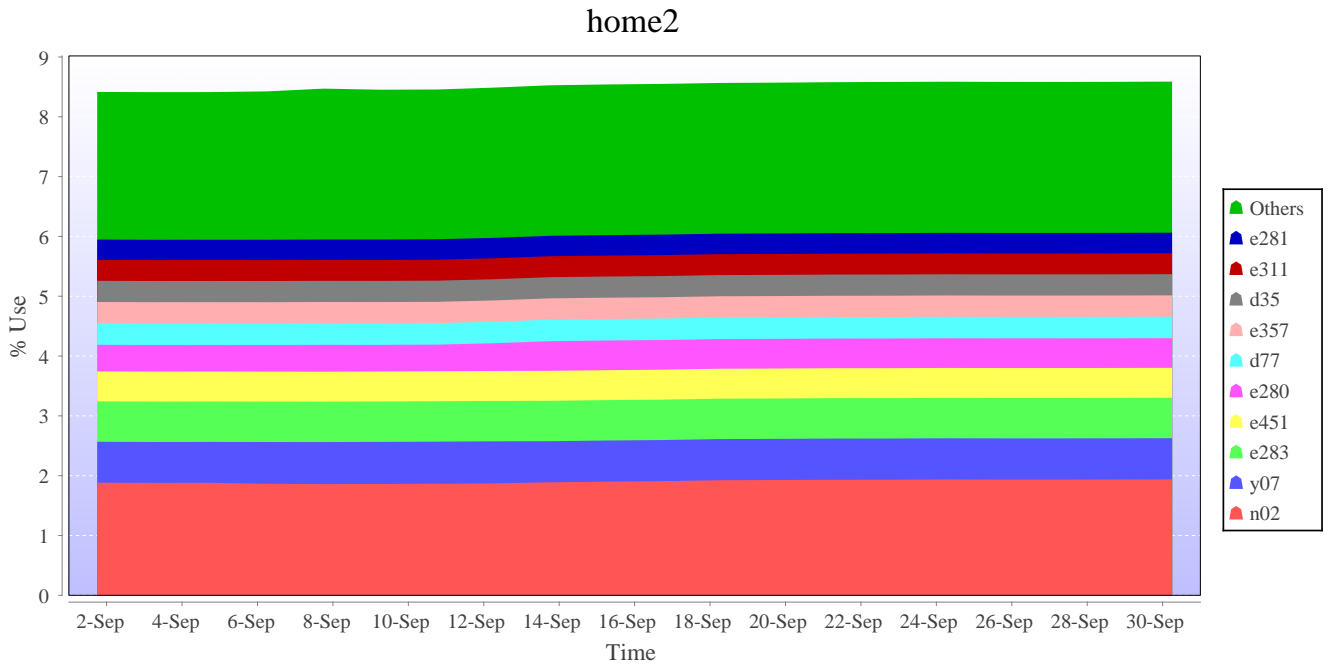
Disk usage for home (home1)

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.



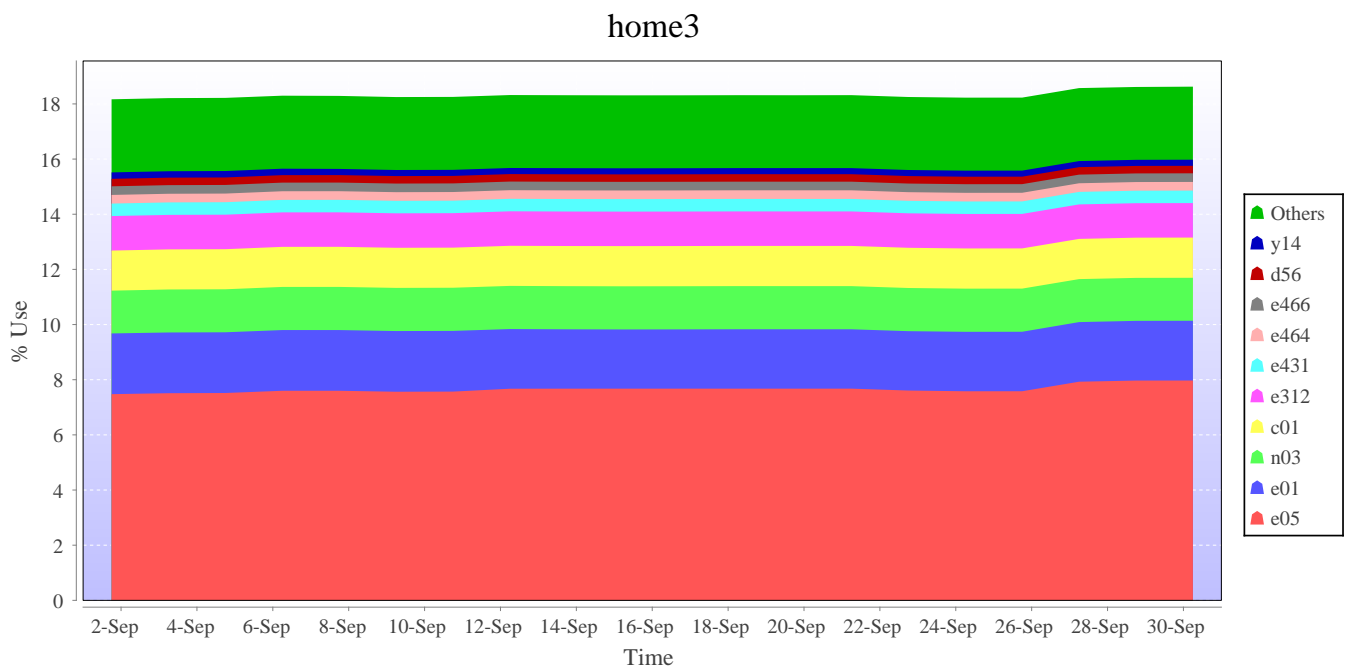
Disk usage for home (home2)

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.



Disk usage for home (home4)

This is a plot of Disk Use on home4 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.

