

Quarterly Reporting

Report from 01 July 2018 to 30 September 2018

Report for Resource Pool XC on ARCHER

A total of 3,910,809.59 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.

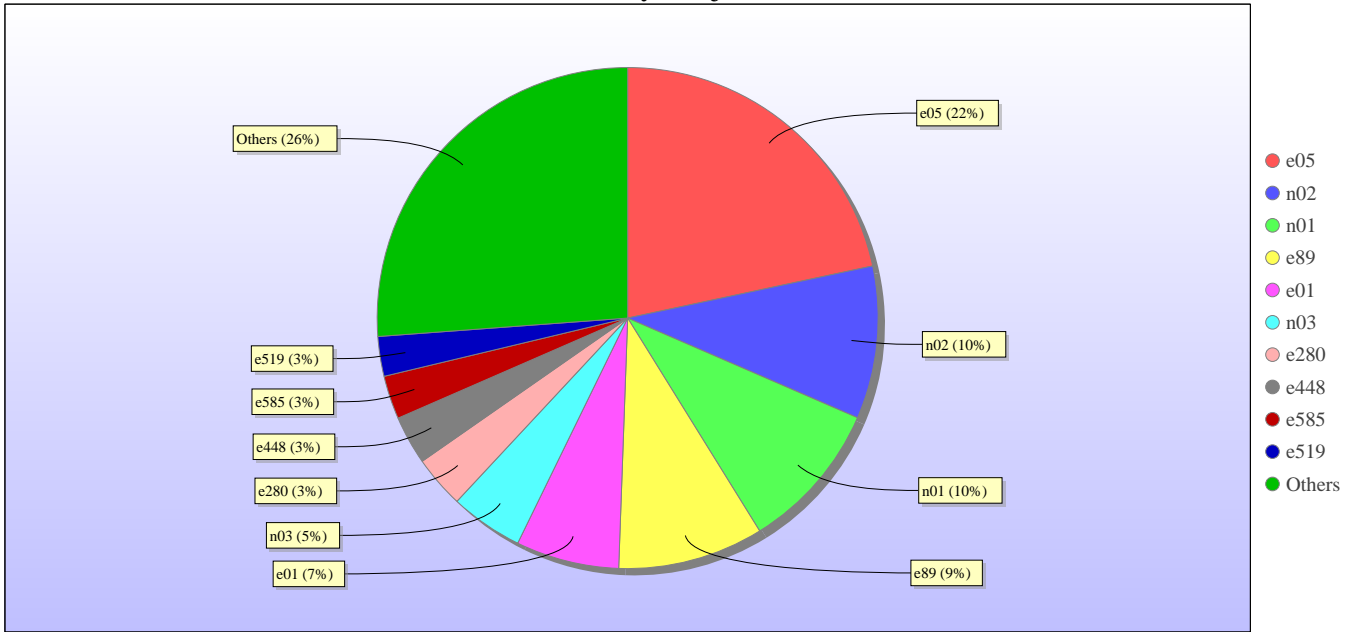
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e462	Leadership Awards	1,629	18,049.0	0.46%	18,075.1	0.46%	20,597.9	0.53%
e464	Leadership Awards	184	3,113.7	0.08%	3,113.7	0.08%	15,099.1	0.39%
e507	Leadership Awards	1,102	28,725.3	0.73%	28,747.4	0.74%	22,546.8	0.58%
e510	Leadership Awards	71	1,396.5	0.04%	1,396.5	0.04%	24,994.3	0.64%
e526	Leadership Awards	125	46,733.4	1.19%	46,733.4	1.19%	25,161.0	0.64%
e572	Leadership Awards	1,359	6,059.2	0.15%	6,059.2	0.15%	7,539.3	0.19%
c01	Class1a	3,685	41,372.8	1.06%	41,372.8	1.06%	18,809.2	0.48%
e291	Class1a	0	0.0	0.00%	0.0	0.00%	489.4	0.01%
e332	Class1a	89	1,446.5	0.04%	1,446.5	0.04%	842.4	0.02%
e341	Class1a	13	9.3	0.00%	9.3	0.00%	6,318.7	0.16%
e365	Class1a	218	10,570.6	0.27%	10,570.6	0.27%	7,055.9	0.18%
e375	Class1a	22	2,990.5	0.08%	2,990.5	0.08%	4,157.4	0.11%
e403	Class1a	28	1,425.9	0.04%	1,425.9	0.04%	25,589.3	0.65%
e429	Class1a	0	0.0	0.00%	0.0	0.00%	747.6	0.02%
e431	Class1a	326	253.9	0.01%	253.9	0.01%	1,040.9	0.03%
e432	Class1a	461	24,963.7	0.64%	24,963.7	0.64%	29,028.4	0.74%
e448	Class1a	3,494	103,419.5	2.64%	103,419.5	2.64%	94,050.6	2.40%
e480	Class1a	17	2,306.7	0.06%	2,479.9	0.06%	4,038.8	0.10%
e514	Class1a	0	0.0	0.00%	0.0	0.00%	1,457.3	0.04%
e515	Class1a	1,505	11,450.4	0.29%	11,450.5	0.29%	6,193.5	0.16%
e516	Class1a	593	27,257.8	0.70%	27,673.5	0.71%	19,434.2	0.50%
e517	Class1a	0	0.0	0.00%	0.0	0.00%	402.2	0.01%
e518	Class1a	56	3,185.9	0.08%	3,186.0	0.08%	2,513.7	0.06%
e519	Class1a	751	83,557.1	2.14%	84,251.0	2.15%	50,273.2	1.29%
e520	Class1a	12	5,570.0	0.14%	5,570.0	0.14%	5,384.7	0.14%
e523	Class1a	217	13,028.6	0.33%	13,028.6	0.33%	24,994.3	0.64%
e527	Class1a	155	7,543.9	0.19%	7,543.9	0.19%	5,536.4	0.14%
e530	Class1a	21	648.5	0.02%	648.5	0.02%	3,016.4	0.08%
e537	Class1a	300	68.8	0.00%	68.8	0.00%	11,040.0	0.28%
e558	Class1a	155	2,191.0	0.06%	2,194.4	0.06%	2,243.9	0.06%
e569	Class1a	195	10,453.8	0.27%	10,453.8	0.27%	5,837.8	0.15%
e571	Class1a	0	0.0	0.00%	0.0	0.00%	502.6	0.01%
e575	Class1a	143	2,340.5	0.06%	2,340.5	0.06%	4,967.6	0.13%
e580	Class1a	0	0.0	0.00%	0.0	0.00%	7,389.6	0.19%
e584	Class1a	100	6,661.2	0.17%	6,661.2	0.17%	4,079.7	0.10%
e588	Class1a	90	7,070.0	0.18%	7,070.0	0.18%	5,060.9	0.13%

Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e605	Class1a	0	0.0	0.00%	0.0	0.00%	1,442.3	0.04%
e606	Class1a	62	1,338.4	0.03%	1,338.4	0.03%	3,226.1	0.08%
e608	Class1a	0	0.0	0.00%	0.0	0.00%	0.0	0.00%
e554	Class1b	0	0.0	0.00%	0.0	0.00%	504.0	0.01%
e01	Consortia	3,313	211,167.9	5.40%	219,010.8	5.60%	253,844.5	6.49%
e05	Consortia	35,005	620,531.3	15.87%	712,286.0	18.21%	680,664.1	17.40%
e89	Consortia	9,694	307,637.2	7.87%	309,227.7	7.91%	331,959.2	8.49%
e280	Consortia	3,306	110,655.2	2.83%	110,967.8	2.84%	125,581.9	3.21%
e281	Consortia	1,689	81,407.3	2.08%	81,478.9	2.08%	69,955.9	1.79%
e283	Consortia	2,508	40,047.9	1.02%	40,063.3	1.02%	41,954.0	1.07%
e305	Consortia	2,578	81,404.2	2.08%	81,413.3	2.08%	72,426.4	1.85%
e529	Consortia	16	2,634.0	0.07%	2,634.0	0.07%	10,234.3	0.26%
e585	Consortia	2,863	92,182.0	2.36%	92,193.6	2.36%	50,273.2	1.29%
e348	Direct Access: ARCHER RAP	182	4,315.8	0.11%	4,315.8	0.11%	15,641.5	0.40%
e484	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	1,946.2	0.05%
e541	Direct Access: ARCHER RAP	188	7,833.7	0.20%	7,833.7	0.20%	2,715.1	0.07%
e542	Direct Access: ARCHER RAP	39	815.7	0.02%	815.7	0.02%	477.2	0.01%
e543	Direct Access: ARCHER RAP	7	1,700.2	0.04%	1,700.2	0.04%	622.1	0.02%
e545	Direct Access: ARCHER RAP	3,267	7,152.2	0.18%	7,152.2	0.18%	1,943.2	0.05%
e546	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	974.0	0.02%
e547	Direct Access: ARCHER RAP	11	175.3	0.00%	175.3	0.00%	1,469.0	0.04%
e548	Direct Access: ARCHER RAP	2	127.2	0.00%	127.2	0.00%	909.0	0.02%
e549	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	644.3	0.02%
e550	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	2,137.0	0.05%
e552	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	2,250.9	0.06%
e553	Direct Access: ARCHER RAP	166	16,783.6	0.43%	16,783.6	0.43%	3,203.0	0.08%
e564	Direct Access: ARCHER RAP	168	23,122.3	0.59%	23,122.3	0.59%	13,475.4	0.34%
e565	Direct Access: ARCHER RAP	1,704	1,118.5	0.03%	1,118.5	0.03%	14,496.7	0.37%
e566	Direct Access: ARCHER RAP	433	19,767.0	0.51%	19,767.1	0.51%	20,390.5	0.52%
e567	Direct Access: ARCHER RAP	79	1,778.6	0.05%	1,778.6	0.05%	15,206.5	0.39%
e590	Direct Access: ARCHER RAP	135	10,720.8	0.27%	10,720.8	0.27%	4,942.3	0.13%
e593	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	22,500.0	0.58%
e595	Direct Access: ARCHER RAP	41	6,506.3	0.17%	6,506.3	0.17%	10,005.4	0.26%
e596	Direct Access: ARCHER RAP	44	1,944.3	0.05%	1,944.3	0.05%	3,618.8	0.09%
e597	Direct Access: ARCHER RAP	54	4,450.0	0.11%	4,450.0	0.11%	30,016.2	0.77%
e599	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	9,476.9	0.24%
e601	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	7,982.8	0.20%
e602	Direct Access: ARCHER RAP	33	3,161.2	0.08%	3,161.2	0.08%	3,151.1	0.08%
e603	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	5,251.9	0.13%

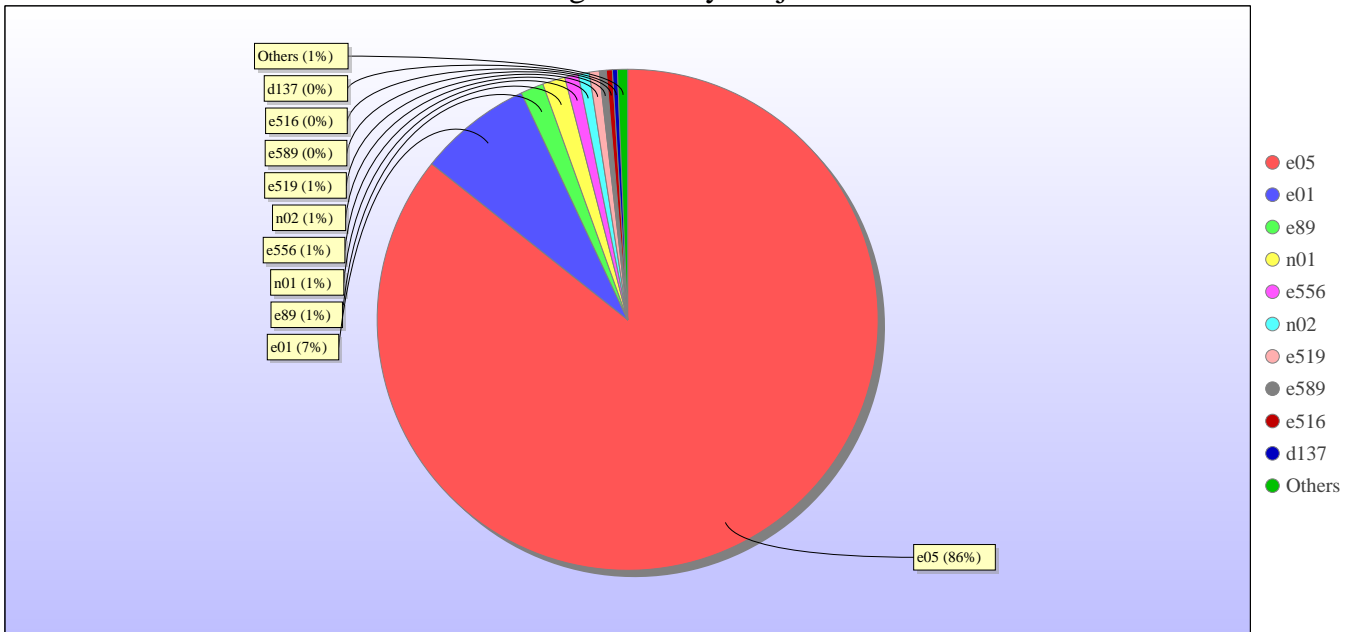
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e574	Instant Access	0	0.0	0.00%	0.0	0.00%	99.5	0.00%
e576	Instant Access	124	368.4	0.01%	368.6	0.01%	125.5	0.00%
e577	Instant Access	2	0.0	0.00%	0.0	0.00%	43.7	0.00%
e578	Instant Access	4	0.3	0.00%	0.3	0.00%	298.4	0.01%
e581	Instant Access	6	510.2	0.01%	510.2	0.01%	334.3	0.01%
e582	Instant Access	39	17.1	0.00%	17.1	0.00%	601.3	0.02%
e583	Instant Access	22	43.7	0.00%	43.7	0.00%	454.3	0.01%
e586	Instant Access	0	0.0	0.00%	0.0	0.00%	601.8	0.02%
e587	Instant Access	0	0.0	0.00%	0.0	0.00%	599.9	0.02%
e591	Instant Access	17	410.1	0.01%	410.1	0.01%	599.9	0.02%
e592	Instant Access	0	0.0	0.00%	0.0	0.00%	284.8	0.01%
e594	Instant Access	33	2,183.1	0.06%	2,183.1	0.06%	1,123.4	0.03%
e598	Instant Access	5	338.2	0.01%	338.2	0.01%	541.2	0.01%
e600	Instant Access	59	124.8	0.00%	124.8	0.00%	313.0	0.01%
e538	Training	165	292.1	0.01%	292.2	0.01%	5,793.4	0.15%
e556	Training	29	0.0	0.00%	940.0	0.02%	7,706.9	0.20%
e573	Training	602	2,361.4	0.06%	2,383.2	0.06%	5,691.2	0.15%
e589	Training	1,568	8,606.1	0.22%	9,085.1	0.23%	9,049.2	0.23%
e604	Training	20	109.6	0.00%	109.6	0.00%	1,847.9	0.05%
y16	Service	0	0.0	0.00%	0.0	0.00%	420.1	0.01%
z17	Service	67	5,707.0	0.15%	5,707.0	0.15%	9,997.7	0.26%
EPSRC Total		87,465	2,155,414.7	55.11%	2,259,798.8	57.78%	2,352,475.3	60.15%
n01	Consortia	10,216	318,715.7	8.15%	317,403.3	8.12%	323,890.4	8.28%
n02	Consortia	58,280	323,825.3	8.28%	323,754.4	8.28%	509,150.7	13.02%
n03	Consortia	6,681	154,707.4	3.96%	154,711.3	3.96%	267,178.1	6.83%
NERC Total		75,177	797,248.4	20.39%	795,869.0	20.35%	1,100,219.2	28.13%
e568	Research	173	6,621.0	0.17%	6,621.0	0.17%	12,492.6	0.32%
BBSRC Total		173	6,621.0	0.17%	6,621.0	0.17%	12,492.6	0.32%
pr1u0002	Class1a	0	0.0	0.00%	0.0	0.00%	302.5	0.01%
pr1u0001	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	1.3	0.00%
pr1u1452	DECI: EXEC	261	12,289.5	0.31%	12,289.5	0.31%	8,519.8	0.22%
pr1u1453	DECI: EXEC	494	71,041.4	1.82%	71,041.4	1.82%	25,395.2	0.65%
pr1u1455	DECI: EXEC	88	926.8	0.02%	926.8	0.02%	2,888.7	0.07%
pr1u1456	DECI: EXEC	2	1,224.2	0.03%	1,224.2	0.03%	0.0	0.00%
pr1u1457	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	290.9	0.01%
pr1utd01	DECI: EXEC	41	779.9	0.02%	779.9	0.02%	405.8	0.01%
pr1utd02	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	559.4	0.01%
pr1u1364	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.2	0.00%
pr1u1402	DECI: HOME	0	0.0	0.00%	0.0	0.00%	55.3	0.00%
pr1u1403	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.0	0.00%
pr1u1404	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.0	0.00%
pr1u1405	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.0	0.00%
pr1u1406	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.2	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%	0.0	0.00%
pr1u1409	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.0	0.00%
pr1u1410	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.0	0.00%
pr1u1411	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.0	0.00%
PRACE Total		886	86,261.7	2.21%	86,261.7	2.21%	38,419.4	0.98%
ecse1001	Consortia	296	626.6	0.02%	631.0	0.02%	1,249.6	0.03%
ecse0910	eCSE	0	0.0	0.00%	0.0	0.00%	151.5	0.00%
ecse0919	eCSE	192	571.3	0.01%	571.3	0.01%	108.0	0.00%
ecse1002	eCSE	0	0.0	0.00%	0.0	0.00%	202.6	0.01%
ecse1008	eCSE	0	0.0	0.00%	0.0	0.00%	238.3	0.01%
ecse1012	eCSE	27	28.2	0.00%	28.2	0.00%	182.3	0.00%
ecse1101	eCSE	225	1,684.7	0.04%	1,684.7	0.04%	580.7	0.01%
ecse1109	eCSE	0	0.0	0.00%	0.0	0.00%	121.8	0.00%
ecse1112	eCSE	0	0.0	0.00%	0.0	0.00%	102.4	0.00%
ecse1204	eCSE	0	0.0	0.00%	0.0	0.00%	65.5	0.00%
ecse1208	eCSE	64	55.0	0.00%	55.0	0.00%	134.0	0.00%
ecse1209	eCSE	606	515.6	0.01%	515.6	0.01%	264.7	0.01%
ecse1210	eCSE	32	25.7	0.00%	25.7	0.00%	2,202.3	0.06%
ecse1217	eCSE	4	0.2	0.00%	0.2	0.00%	51.3	0.00%

Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
ecse1220	eCSE	0	0.0	0.00%	0.0	0.00%	117.3	0.00%
eCSE Total		1,446	3,507.2	0.09%	3,511.7	0.09%	5,772.4	0.15%
d43	ECDF	88	3,774.6	0.10%	3,774.6	0.10%	7,561.6	0.19%
d25	Research	0	0.0	0.00%	0.0	0.00%	1,260.3	0.03%
d35	Research	432	6.3	0.00%	6.3	0.00%	1,260.3	0.03%
d56	Research	225	1,044.8	0.03%	1,044.8	0.03%	19,995.5	0.51%
d60	Research	0	0.0	0.00%	0.0	0.00%	252.1	0.01%
d67	Research	143	107.6	0.00%	107.6	0.00%	882.2	0.02%
d71	Research	0	0.0	0.00%	0.0	0.00%	3,276.7	0.08%
d87	Research	0	0.0	0.00%	0.0	0.00%	0.2	0.00%
d88	Research	63	12.3	0.00%	12.3	0.00%	39.8	0.00%
d100	Research	193	1,267.9	0.03%	1,267.9	0.03%	1,406.7	0.04%
d101	Research	166	732.5	0.02%	732.5	0.02%	1,638.4	0.04%
d107	Research	1,334	1,968.2	0.05%	1,935.8	0.05%	1,260.3	0.03%
d114	Research	1,266	16,472.8	0.42%	16,473.1	0.42%	28,048.7	0.72%
d118	Research	0	0.0	0.00%	0.0	0.00%	312.9	0.01%
d137	Research	1,328	16,433.0	0.42%	16,776.0	0.43%	7,561.6	0.19%
d142	Research	197	6,191.0	0.16%	6,191.0	0.16%	12,602.7	0.32%
d143	Research	209	3,917.9	0.10%	3,917.9	0.10%	15,032.7	0.38%
d145	Research	0	0.0	0.00%	0.0	0.00%	756.2	0.02%
d149	Research	1	0.0	0.00%	0.0	0.00%	1,884.9	0.05%
d150	Research	149	15,436.1	0.39%	15,436.1	0.39%	23,994.6	0.61%
d155	Research	5,623	6,113.7	0.16%	6,113.7	0.16%	10,586.3	0.27%
d166	Research	485	7,670.6	0.20%	7,670.6	0.20%	6,025.0	0.15%
d421	Research	9	1,315.5	0.03%	1,315.5	0.03%	4,874.0	0.12%
d426	Research	0	0.0	0.00%	0.0	0.00%	82.2	0.00%
d153	Industrial	6,675	3,435.1	0.09%	3,441.0	0.09%	1,666.0	0.04%
d156	Industrial	0	0.0	0.00%	0.0	0.00%	254.0	0.01%
d165	Industrial	0	0.0	0.00%	0.0	0.00%	126.0	0.00%
i18	Industrial	182	9,405.8	0.24%	9,405.8	0.24%	8,703.4	0.22%
i20	Industrial	15	0.0	0.00%	0.4	0.00%	303.6	0.01%
i200	Industrial	0	0.0	0.00%	0.0	0.00%	126.0	0.00%
i219	Industrial	0	0.0	0.00%	0.0	0.00%	126.0	0.00%
i225	Industrial	0	0.0	0.00%	0.0	0.00%	252.1	0.01%
i228	Industrial	0	0.0	0.00%	0.0	0.00%	207.7	0.01%
x08	Industrial	0	0.0	0.00%	0.0	0.00%	3,024.7	0.08%
d74	Training	0	0.0	0.00%	0.0	0.00%	504.1	0.01%
d104	Training	0	0.0	0.00%	0.0	0.00%	2,359.3	0.06%
d133	Training	50	53.3	0.00%	53.3	0.00%	126.2	0.00%
d154	Training	3,181	1,093.3	0.03%	1,105.2	0.03%	675.7	0.02%
d167	Training	0	0.0	0.00%	0.0	0.00%	164.4	0.00%
d131	Service	532	3,186.9	0.08%	3,187.1	0.08%	2,676.9	0.07%
d134	Service	18	0.5	0.00%	0.5	0.00%	126.0	0.00%
d425	Service	0	0.0	0.00%	0.0	0.00%	4.2	0.00%
w16	Service	28	452.5	0.01%	452.5	0.01%	1,499.7	0.04%
y01	Service	0	0.0	0.00%	0.0	0.00%	48.4	0.00%
y02	Service	10	0.1	0.00%	0.1	0.00%	252.1	0.01%
y07	Service	117	0.0	0.00%	1.8	0.00%	25.2	0.00%
z02	Service	6	0.0	0.00%	0.0	0.00%	126.0	0.00%
z99	Service	47	0.5	0.00%	0.5	0.00%	25.2	0.00%
d84	UoE Seedcorn	0	0.0	0.00%	0.0	0.00%	252.1	0.01%
e579	UoE Supercomputing	0	0.0	0.00%	0.0	0.00%	138.8	0.00%
DirectorsTime Total		22,772	100,093.0	2.56%	100,424.0	2.57%	174,389.4	4.46%
y14	Training	3,864	2,284.4	0.06%	1,530.6	0.04%	1,764.4	0.05%
y21	Service	0	0.0	0.00%	0.0	0.00%	1,260.3	0.03%
z19	Service	1,023	33,764.7	0.86%	33,767.0	0.86%	17,643.8	0.45%
CSE Total		4,887	36,049.1	0.92%	35,297.6	0.90%	20,668.5	0.53%
Total		192,806	3,185,195.0	81.45%	3,287,783.8	84.07%	3,704,436.8	94.72%

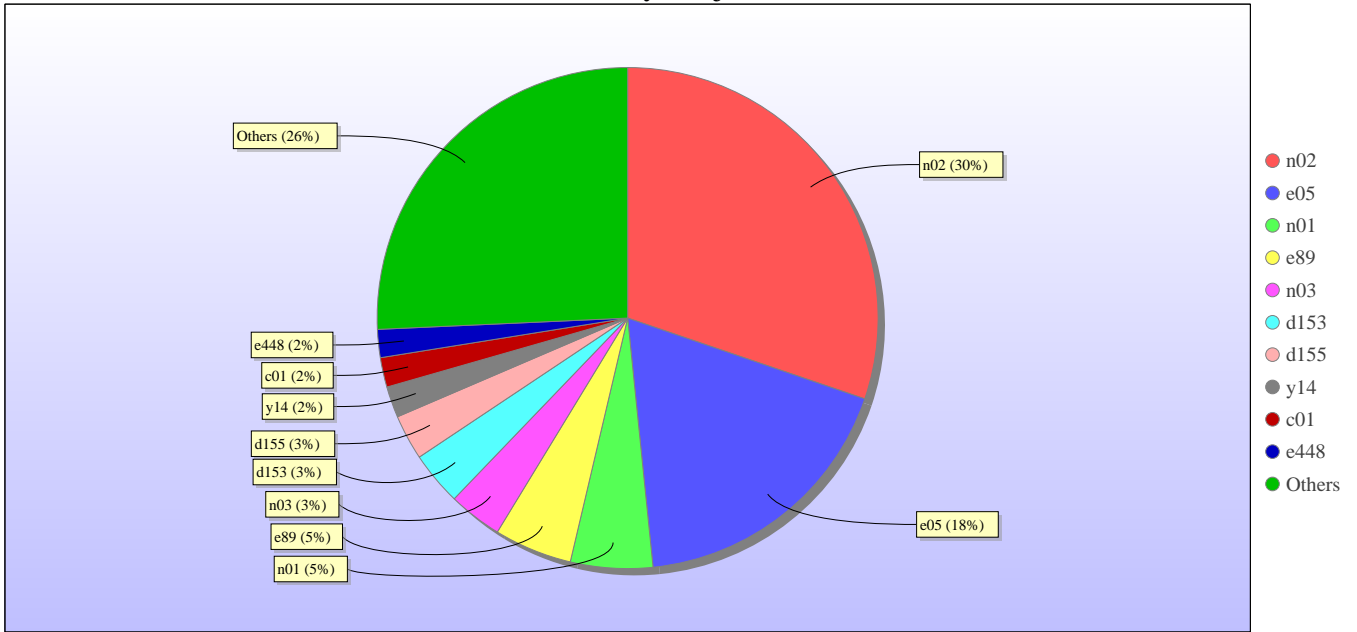
Use by Project



Uncharged Use by Project



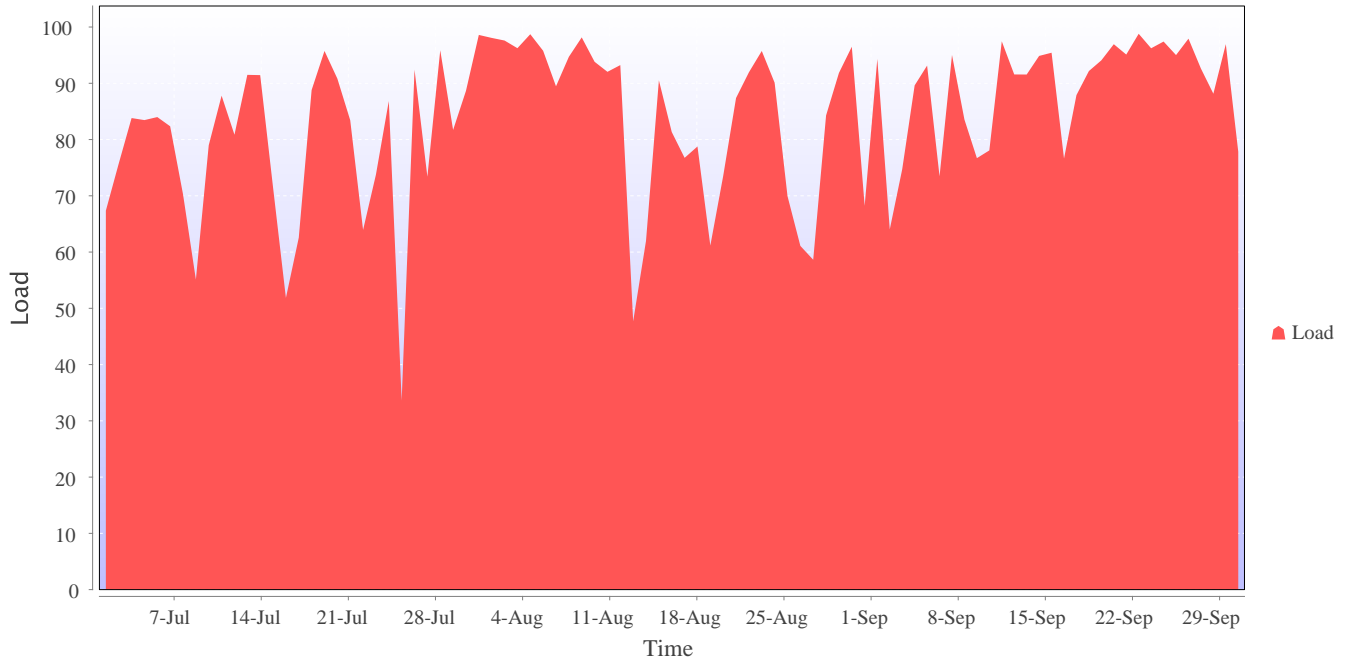
Jobs by Project



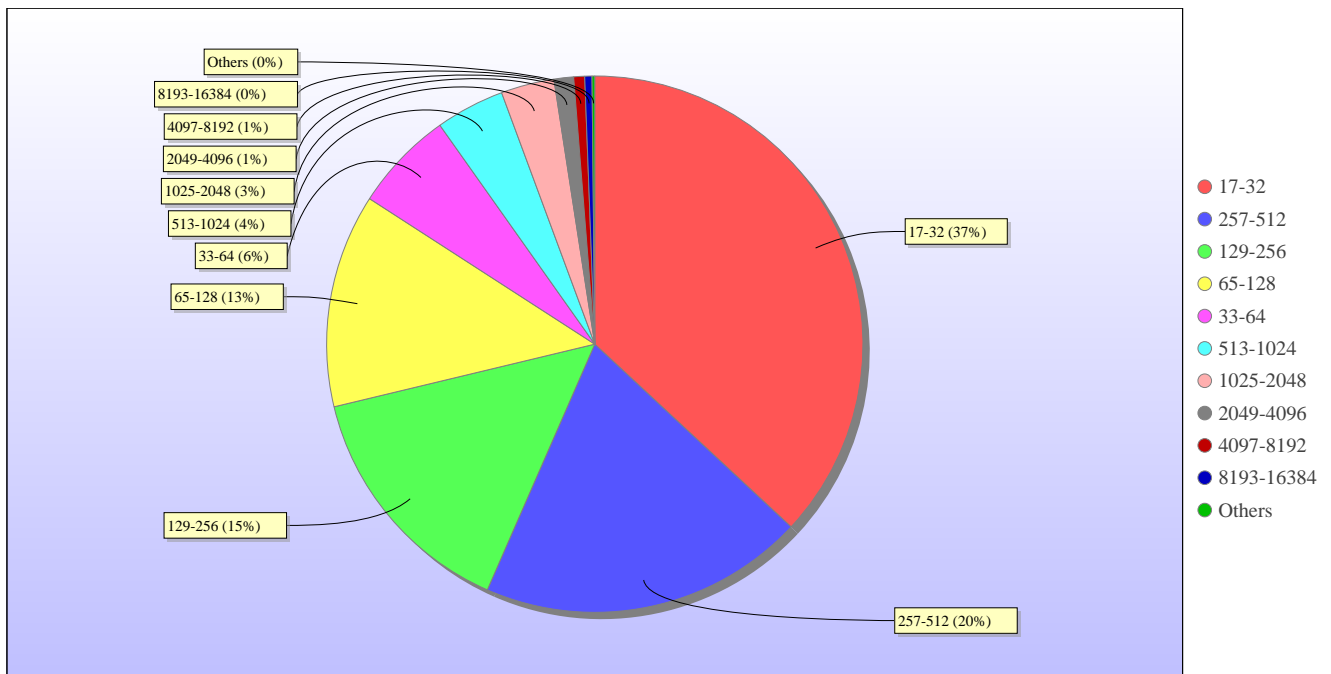
kAUs (by Size)

Size	kAUs	Number of Jobs
17-32	26,136.415	71,194
33-64	38,131.368	11,704
65-128	169,431.388	24,835
129-256	425,535.839	28,308
257-512	560,593.02	37,847
513-1024	484,660.098	8,007
1025-2048	424,161.263	6,185
2049-4096	330,425.873	2,276
4097-8192	349,252.629	1,271
8193-16384	265,809.7	837
16385-32768	67,196.328	193
32769-65536	20,677.055	70
65537-131072	9,737.344	54

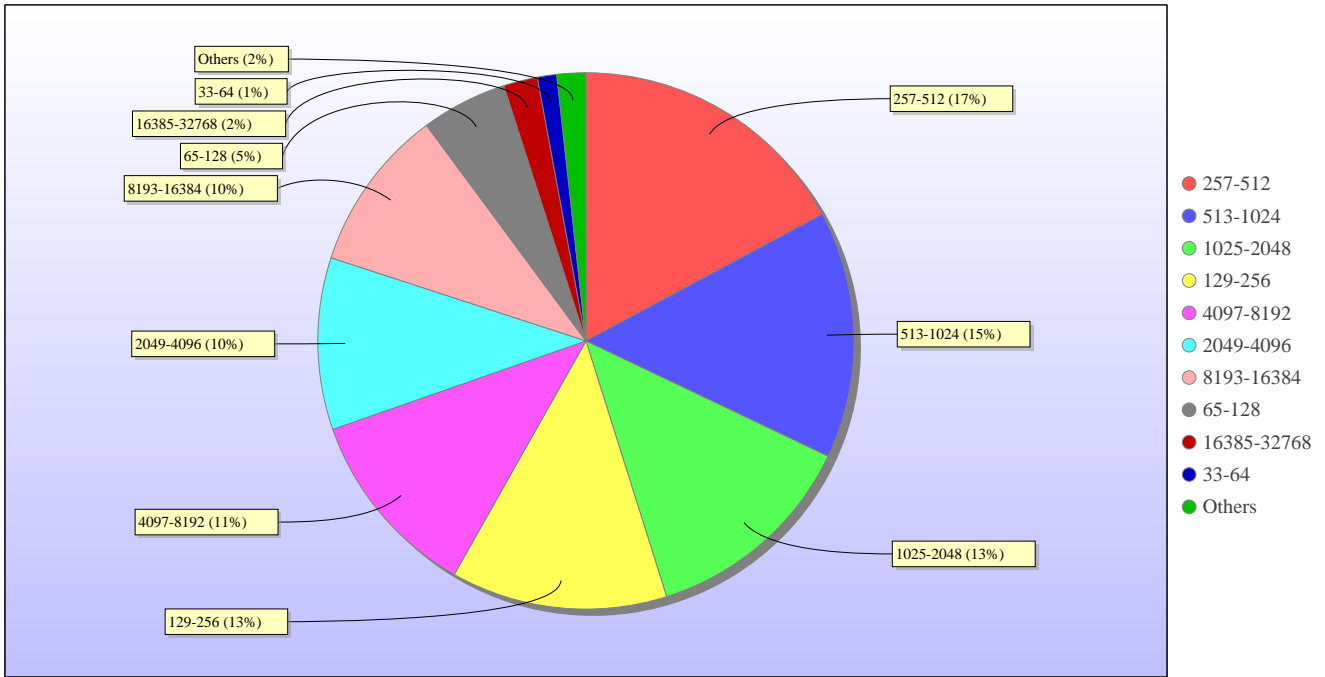
Load plots



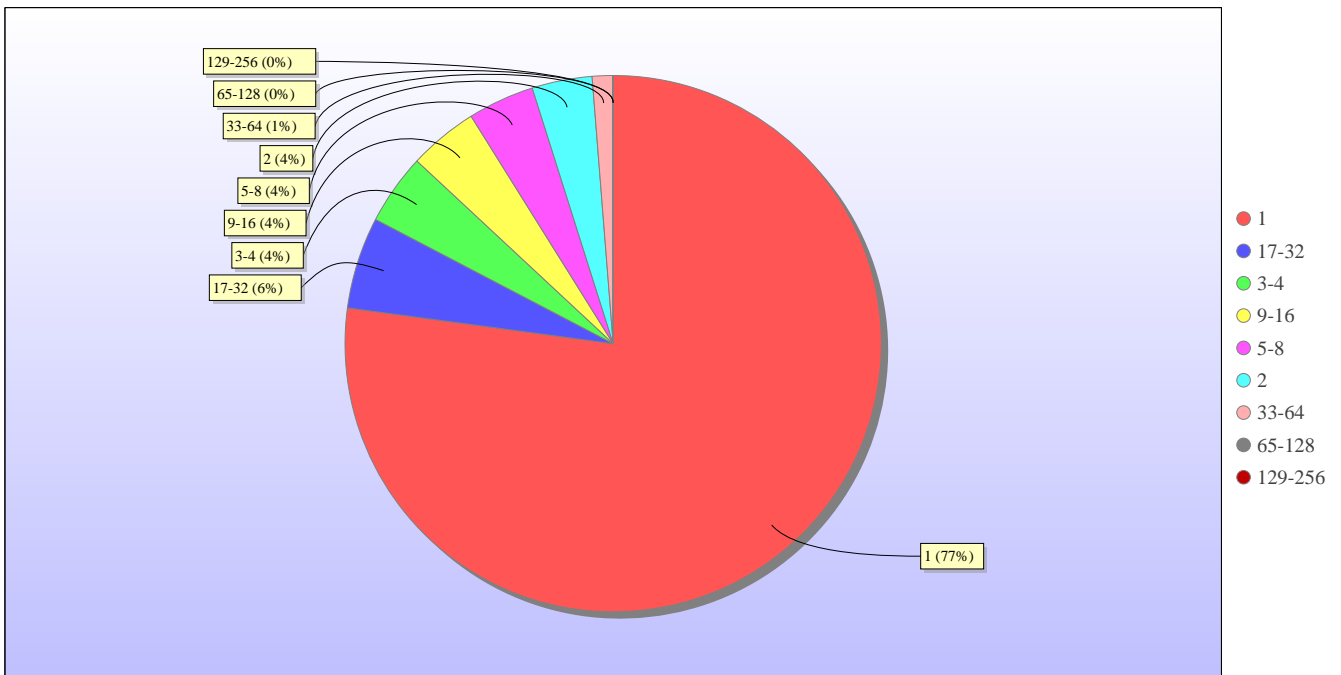
Percentage load on machine



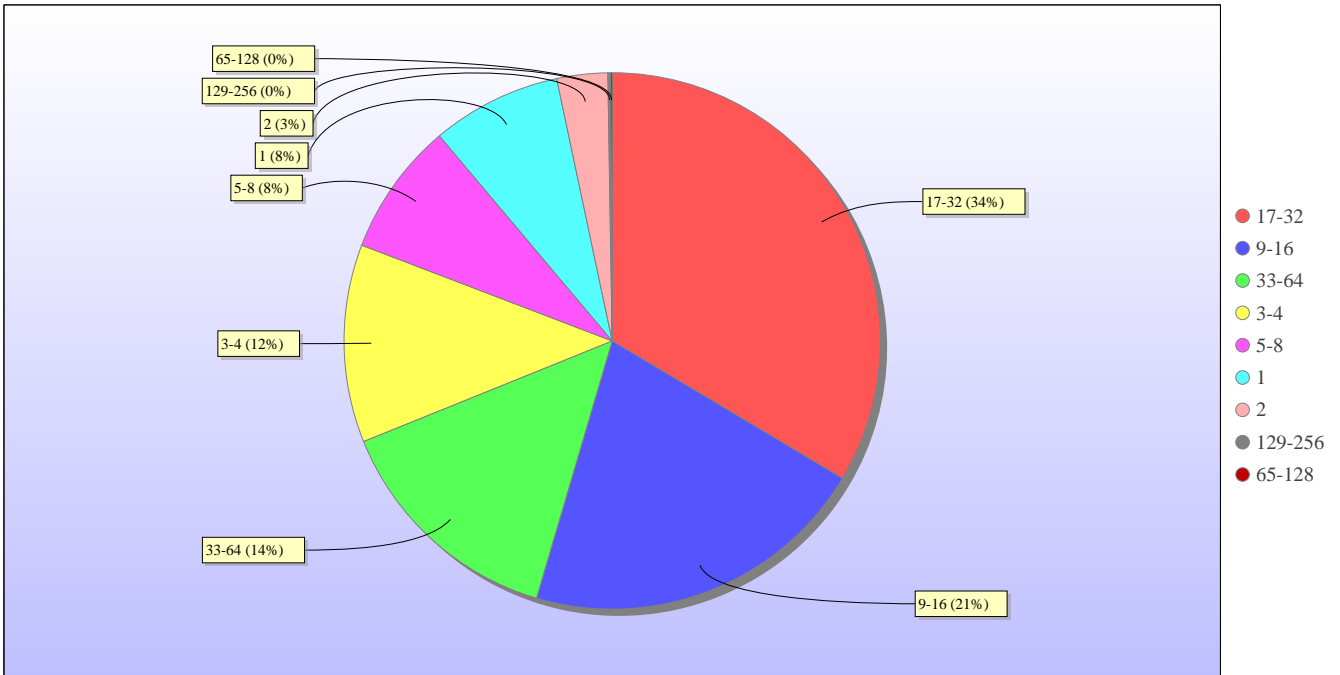
Jobs by Size



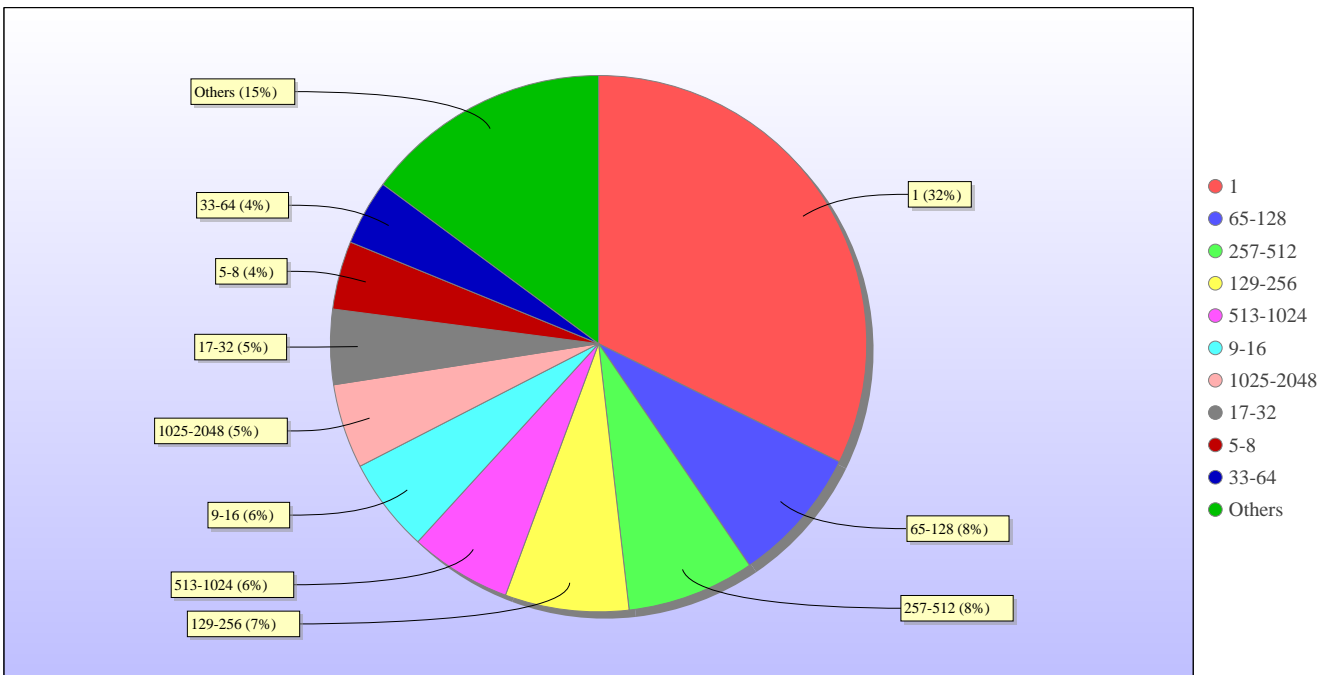
kAUs used by Size



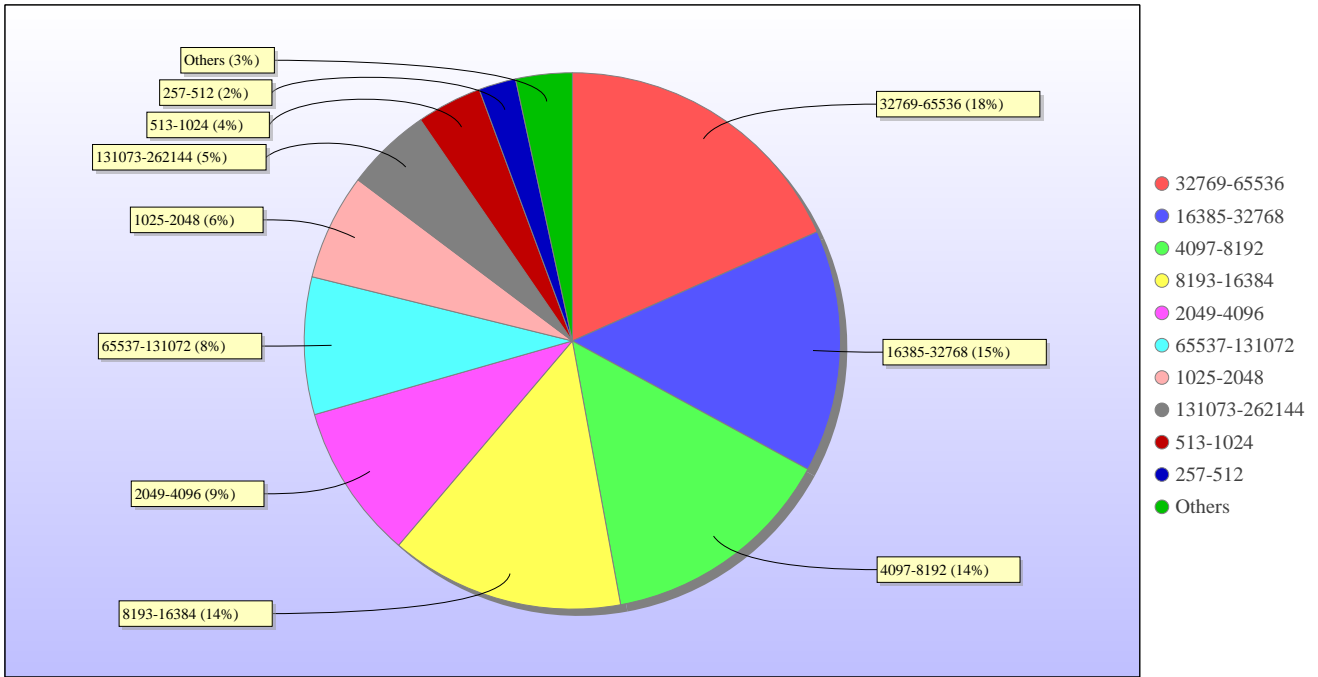
Jobs grouped by wall-clock-hours



kAUs used grouped by wall-clock-hours



Jobs grouped by core-hours

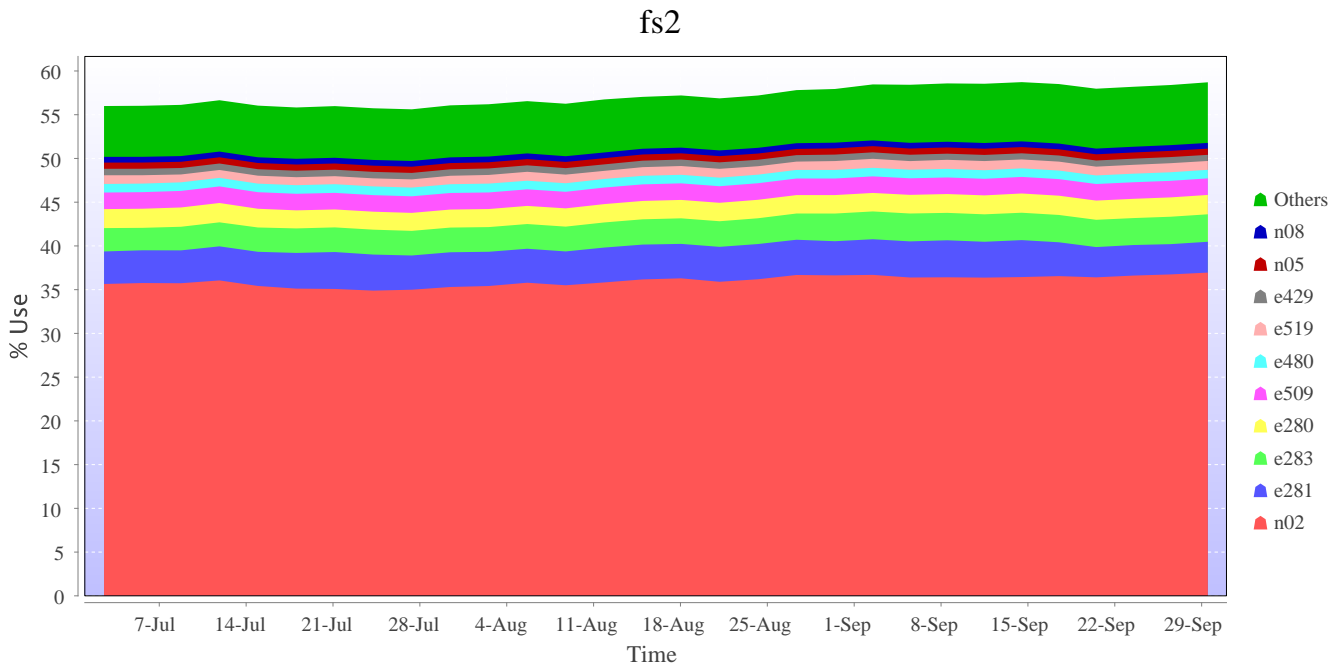


kAUs used grouped by core-hours

Disk usage

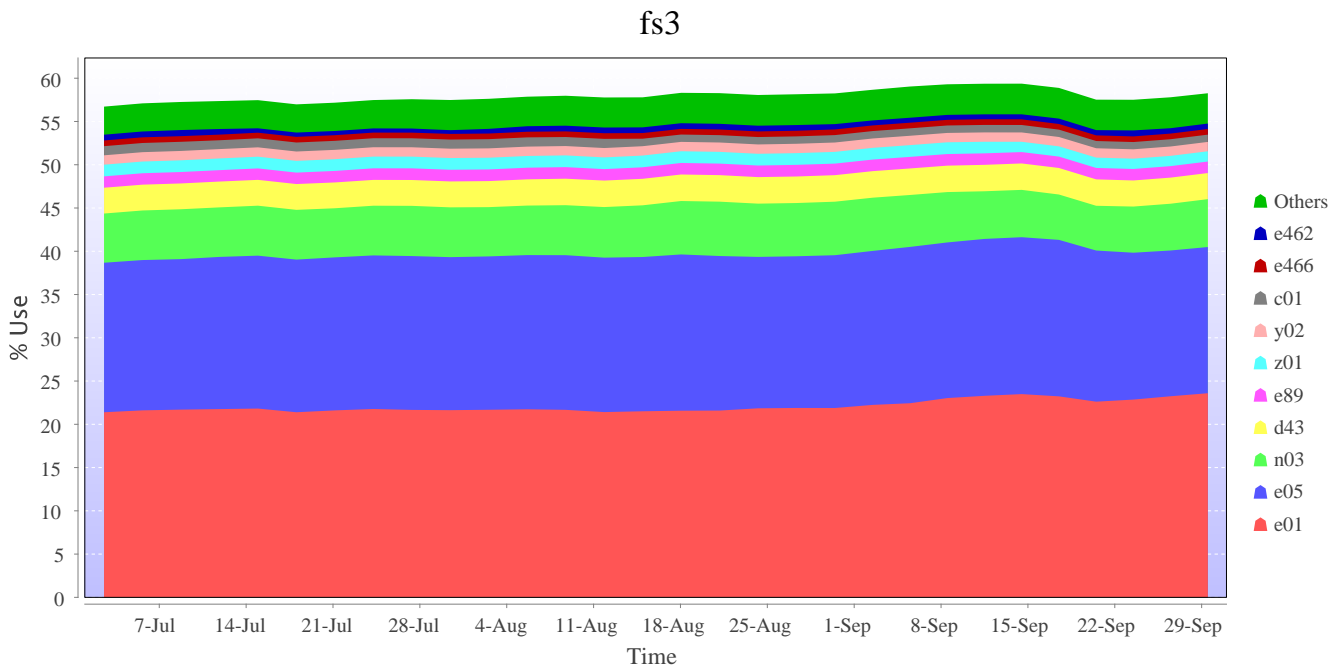
Disk usage for work (fs2)

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.



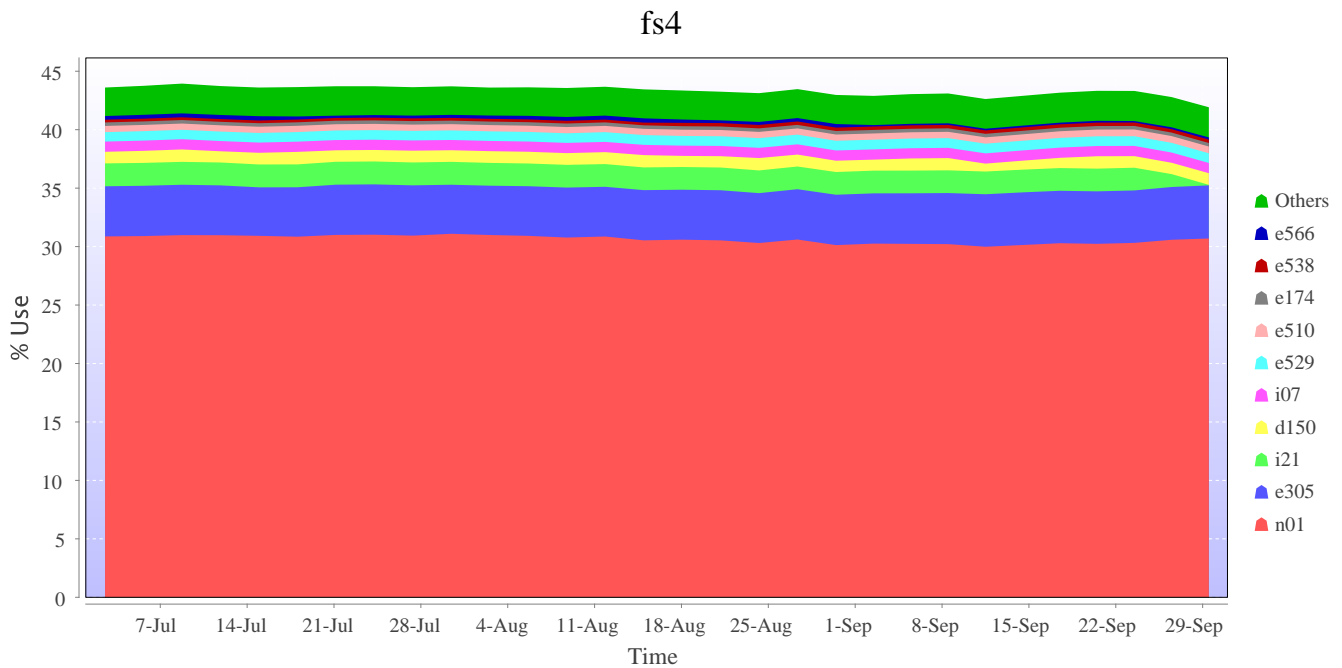
Disk usage for work (fs3)

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.



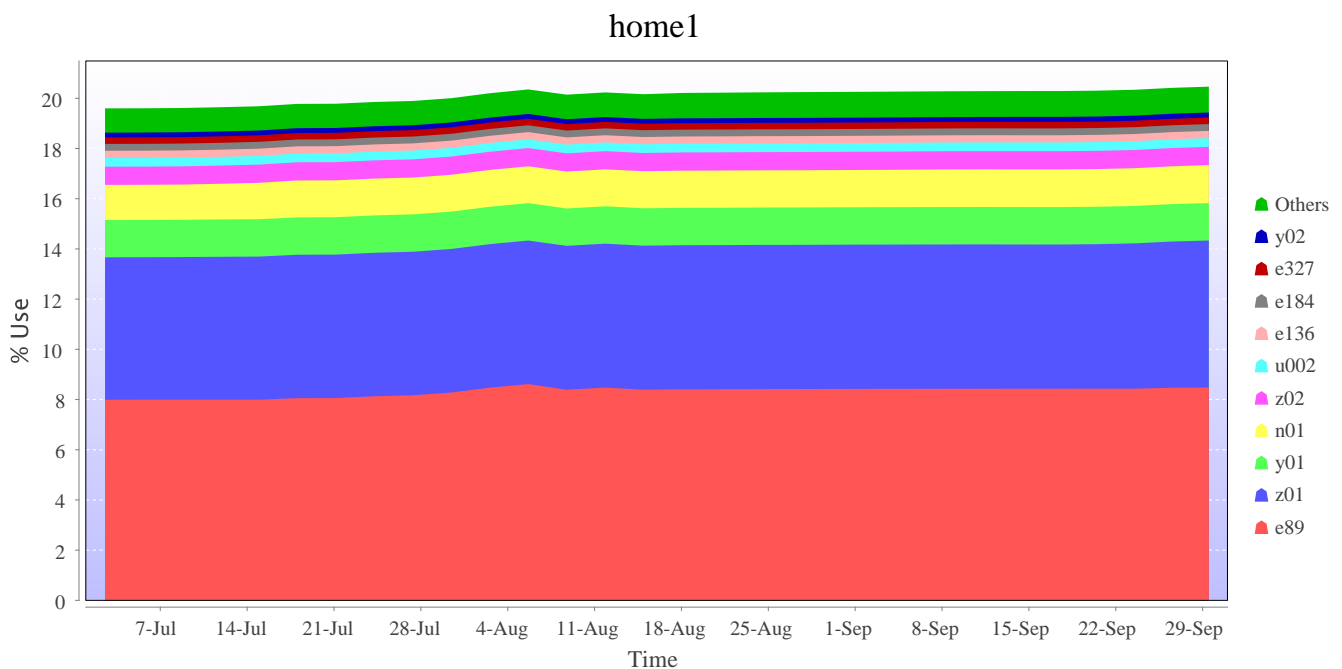
Disk usage for work (fs4)

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.



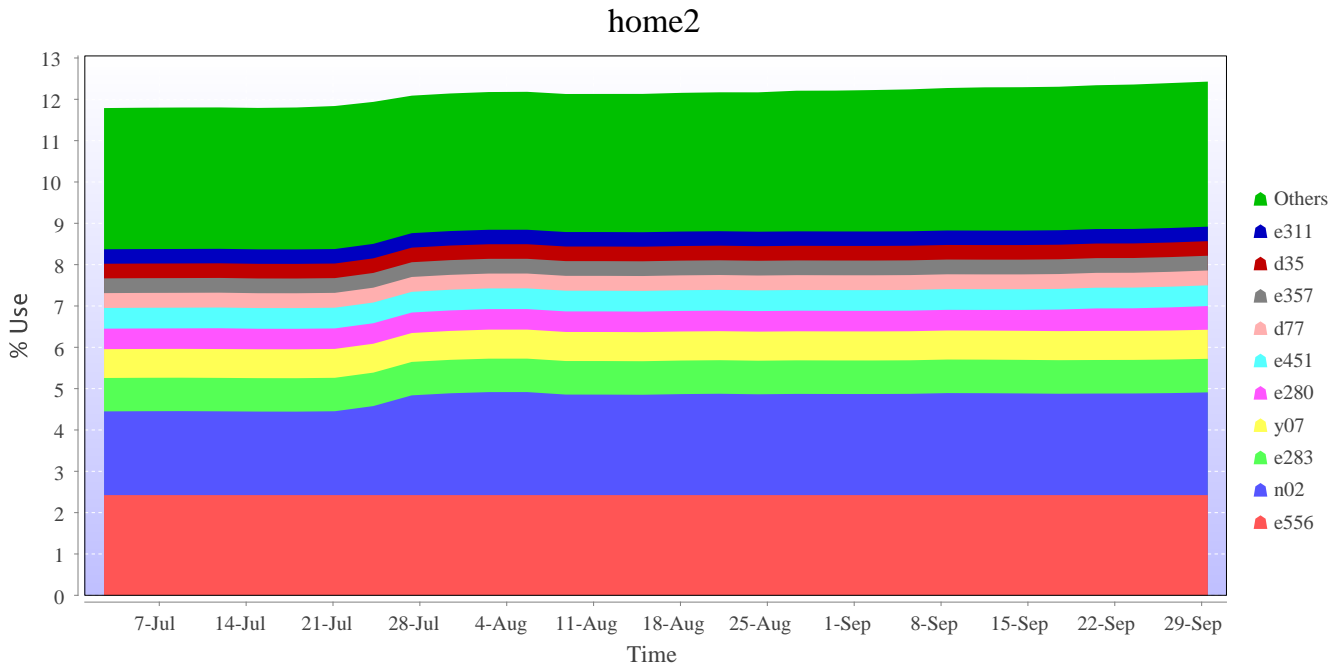
Disk usage for home (home1)

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.



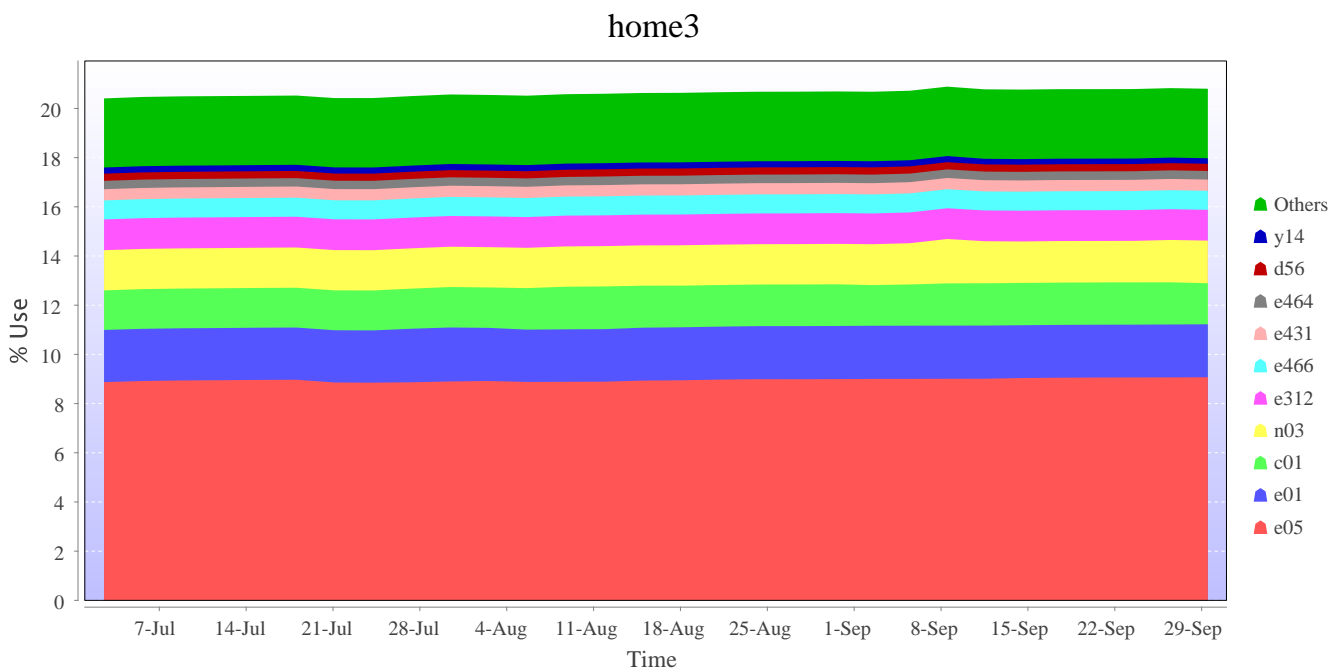
Disk usage for home (home2)

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.

