

Monthly Reporting

Report from 01 March 2018 to 31 March 2018

Report for Resource Pool XC on ARCHER

A total of 1,316,001.597 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.

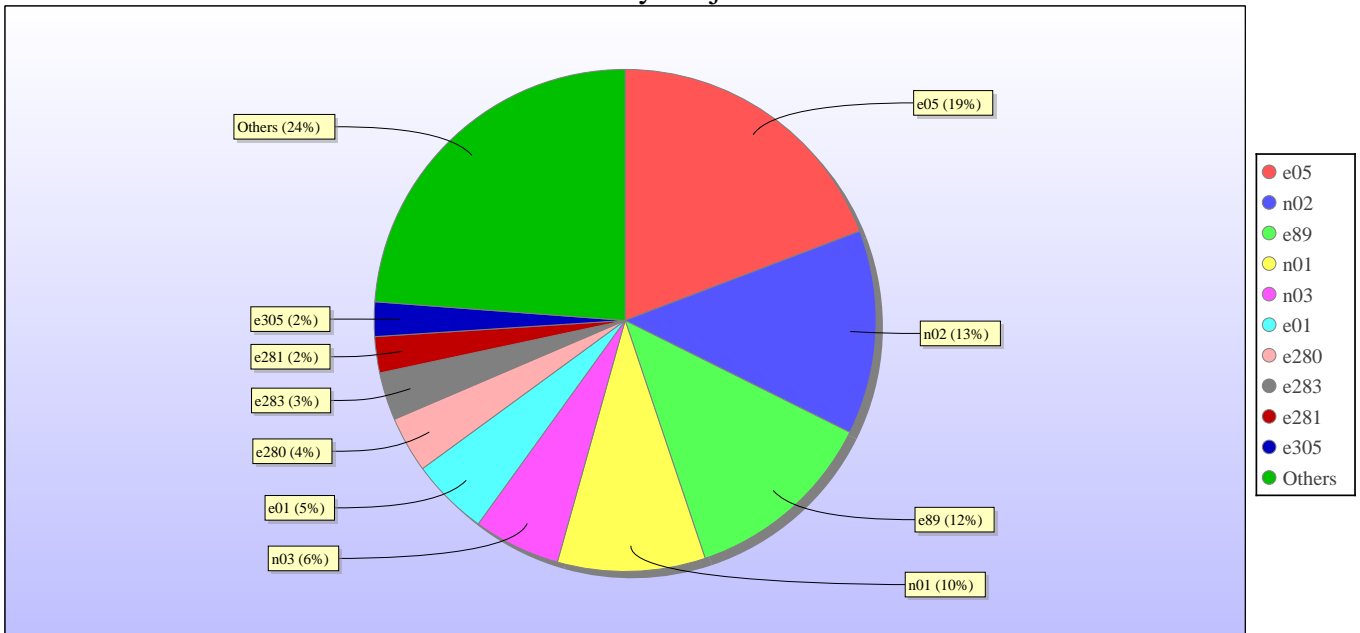
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e01	Consortia	1,915	61,555.6	4.68%	61,666.2	4.69%	72,621.7	5.52%
e05	Consortia	11,604	211,823.8	16.10%	237,033.5	18.01%	221,793.7	16.85%
e89	Consortia	8,616	153,196.0	11.64%	153,979.2	11.70%	95,323.7	7.24%
e280	Consortia	932	44,568.4	3.39%	44,568.5	3.39%	40,254.0	3.06%
e281	Consortia	1,826	28,736.5	2.18%	28,739.5	2.18%	21,474.0	1.63%
e283	Consortia	978	37,992.3	2.89%	37,993.7	2.89%	17,247.1	1.31%
e305	Consortia	1,187	27,345.4	2.08%	27,345.8	2.08%	22,194.0	1.69%
e529	Consortia	52	15,505.3	1.18%	15,505.3	1.18%	5,110.3	0.39%
e462	Leadership Awards	104	857.6	0.07%	867.1	0.07%	6,931.3	0.53%
e464	Leadership Awards	217	3,234.9	0.25%	3,234.9	0.25%	5,080.9	0.39%
e507	Leadership Awards	70	6,272.7	0.48%	6,272.7	0.48%	11,949.2	0.91%
e509	Leadership Awards	15	9,477.4	0.72%	9,477.4	0.72%	18,711.1	1.42%
e510	Leadership Awards	20	2,534.0	0.19%	2,534.0	0.19%	8,554.0	0.65%
e526	Leadership Awards	35	1,214.3	0.09%	1,214.3	0.09%	8,554.0	0.65%
e572	Leadership Awards	40	0.9	0.00%	0.9	0.00%	1,701.4	0.13%
c01	Class1a	967	2,193.0	0.17%	2,193.0	0.17%	6,466.7	0.49%
e229	Class1a	0	0.0	0.00%	0.0	0.00%	448.0	0.03%
e291	Class1a	0	0.0	0.00%	0.0	0.00%	164.7	0.01%
e304	Class1a	50	1,482.7	0.11%	1,482.7	0.11%	5,278.6	0.40%
e341	Class1a	0	0.0	0.00%	0.0	0.00%	4,277.0	0.32%
e358	Class1a	234	1,788.5	0.14%	1,793.8	0.14%	636.0	0.05%
e365	Class1a	53	4,835.3	0.37%	4,835.3	0.37%	4,851.0	0.37%
e375	Class1a	3	1,178.3	0.09%	1,178.3	0.09%	1,414.3	0.11%
e378	Class1a	234	521.1	0.04%	521.1	0.04%	4,767.5	0.36%
e403	Class1a	2	0.3	0.00%	0.3	0.00%	8,610.9	0.65%
e429	Class1a	4	0.8	0.00%	0.8	0.00%	1,052.0	0.08%
e431	Class1a	2	344.4	0.03%	344.4	0.03%	947.8	0.07%
e432	Class1a	33	3,578.4	0.27%	3,578.4	0.27%	7,016.9	0.53%
e448	Class1a	320	10,035.3	0.76%	10,035.3	0.76%	35,224.3	2.68%
e475	Class1a	2	20.8	0.00%	20.8	0.00%	0.0	0.00%
e480	Class1a	37	3,612.0	0.27%	3,612.0	0.27%	3,968.1	0.30%
e499	Class1a	276	2,226.2	0.17%	2,238.2	0.17%	10,612.9	0.81%
e513	Class1a	77	363.1	0.03%	363.1	0.03%	177.9	0.01%
e514	Class1a	0	0.0	0.00%	0.0	0.00%	479.5	0.04%
e515	Class1a	253	1,268.3	0.10%	1,268.3	0.10%	2,875.2	0.22%
e516	Class1a	194	3,209.1	0.24%	3,209.1	0.24%	13,157.4	1.00%
e517	Class1a	0	0.0	0.00%	0.0	0.00%	134.6	0.01%

Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e518	Class1a	0	0.0	0.00%	0.0	0.00%	510.3	0.04%
e519	Class1a	119	16,651.2	1.27%	16,651.9	1.27%	17,010.1	1.29%
e520	Class1a	25	1,377.0	0.10%	1,377.0	0.10%	4,312.6	0.33%
e523	Class1a	23	15,653.3	1.19%	15,653.8	1.19%	6,843.2	0.52%
e527	Class1a	1,100	7,391.6	0.56%	7,391.6	0.56%	1,881.9	0.14%
e530	Class1a	0	0.0	0.00%	0.0	0.00%	1,020.6	0.08%
e537	Class1a	0	0.0	0.00%	0.0	0.00%	1,136.3	0.09%
e558	Class1a	124	636.2	0.05%	636.2	0.05%	755.1	0.06%
e569	Class1a	0	0.0	0.00%	0.0	0.00%	1,954.2	0.15%
e570	Class1a	110	7,486.9	0.57%	7,486.9	0.57%	3,743.3	0.28%
e571	Class1a	0	0.0	0.00%	0.0	0.00%	85.1	0.01%
e575	Class1a	0	0.0	0.00%	0.0	0.00%	1,322.1	0.10%
e580	Class1a	0	0.0	0.00%	0.0	0.00%	2,507.6	0.19%
e584	Class1a	107	21.7	0.00%	21.7	0.00%	838.1	0.06%
e554	Class1b	4	0.2	0.00%	0.2	0.00%	171.1	0.01%
e348	Direct Access: ARCHER RAP	277	699.5	0.05%	699.5	0.05%	2,793.7	0.21%
e484	Direct Access: ARCHER RAP	80	2,560.0	0.19%	2,560.1	0.19%	1,544.5	0.12%
e541	Direct Access: ARCHER RAP	86	5,491.5	0.42%	5,491.5	0.42%	2,711.4	0.21%
e542	Direct Access: ARCHER RAP	69	2,209.8	0.17%	2,209.8	0.17%	1,641.6	0.12%
e543	Direct Access: ARCHER RAP	72	2,782.5	0.21%	2,782.5	0.21%	2,139.9	0.16%
e545	Direct Access: ARCHER RAP	74	448.6	0.03%	448.6	0.03%	822.3	0.06%
e546	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	2,512.8	0.19%
e547	Direct Access: ARCHER RAP	61	3,450.0	0.26%	3,450.0	0.26%	3,789.8	0.29%
e548	Direct Access: ARCHER RAP	448	6,348.6	0.48%	6,348.6	0.48%	2,345.0	0.18%
e549	Direct Access: ARCHER RAP	194	6,594.8	0.50%	6,594.8	0.50%	1,662.1	0.13%
e550	Direct Access: ARCHER RAP	2,346	5,616.8	0.43%	5,616.8	0.43%	2,544.5	0.19%
e552	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	1,514.8	0.12%
e553	Direct Access: ARCHER RAP	81	1,391.6	0.11%	1,391.6	0.11%	3,098.7	0.24%
e564	Direct Access: ARCHER RAP	24	4,274.2	0.32%	4,274.2	0.32%	4,586.5	0.35%
e565	Direct Access: ARCHER RAP	344	14,052.0	1.07%	14,052.0	1.07%	5,132.4	0.39%
e566	Direct Access: ARCHER RAP	145	14,676.5	1.12%	14,676.5	1.12%	6,861.5	0.52%
e567	Direct Access: ARCHER RAP	34	6,030.7	0.46%	6,030.8	0.46%	5,117.0	0.39%
e555	Instant Access	0	0.0	0.00%	0.0	0.00%	143.3	0.01%
e557	Instant Access	0	0.0	0.00%	0.0	0.00%	7.2	0.00%
e559	Instant Access	59	426.7	0.03%	426.7	0.03%	200.7	0.02%
e560	Instant Access	21	101.3	0.01%	101.3	0.01%	204.1	0.02%
e561	Instant Access	0	0.0	0.00%	0.0	0.00%	189.5	0.01%
e562	Instant Access	0	0.0	0.00%	0.0	0.00%	205.3	0.02%
e563	Instant Access	11	170.9	0.01%	170.9	0.01%	207.0	0.02%
e574	Instant Access	0	0.0	0.00%	0.0	0.00%	205.3	0.02%
e576	Instant Access	11	42.3	0.00%	42.3	0.00%	204.4	0.02%
e577	Instant Access	0	0.0	0.00%	0.0	0.00%	33.8	0.00%
e578	Instant Access	59	259.6	0.02%	259.6	0.02%	205.3	0.02%
e581	Instant Access	8	432.5	0.03%	432.5	0.03%	207.0	0.02%
e582	Instant Access	7	0.2	0.00%	0.2	0.00%	201.9	0.02%
e583	Instant Access	129	1,148.9	0.09%	1,148.9	0.09%	149.0	0.01%
e521	Training	54	915.5	0.07%	915.5	0.07%	1,761.9	0.13%

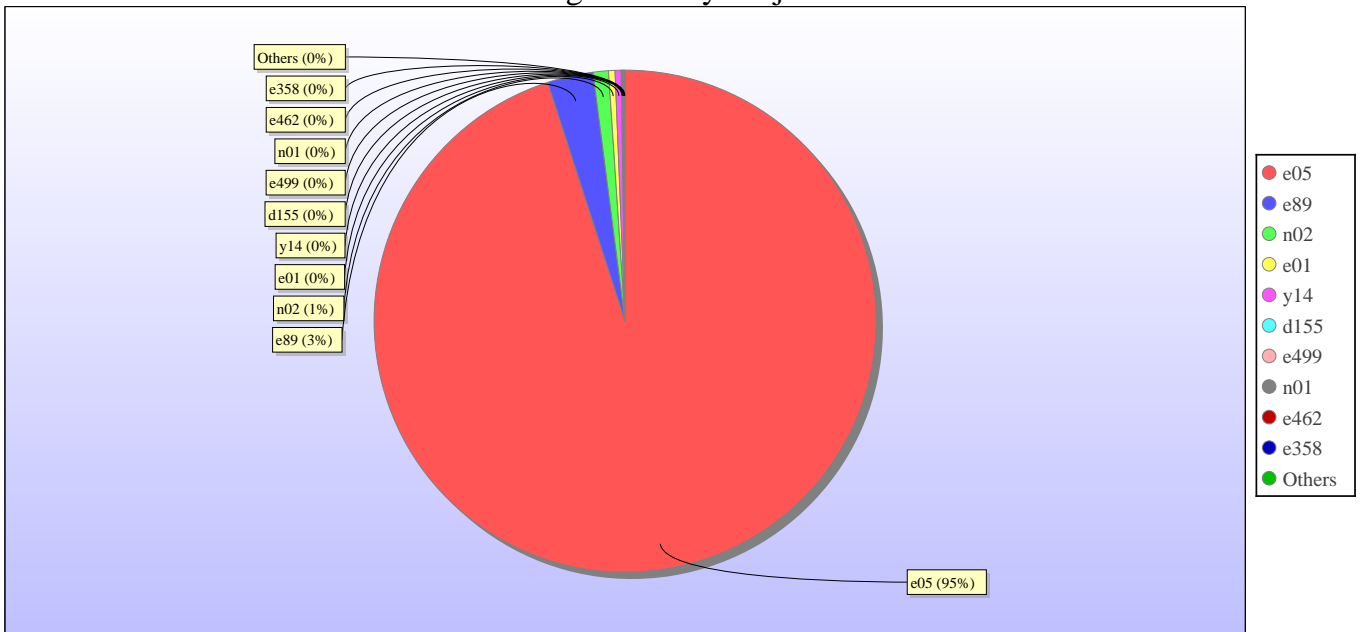
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e538	Training	28	997.7	0.08%	997.7	0.08%	2,892.8	0.22%
e556	Training	277	2,340.7	0.18%	2,340.7	0.18%	2,593.4	0.20%
e573	Training	143	1,675.9	0.13%	1,675.9	0.13%	1,149.1	0.09%
z17	Service	58	1,389.5	0.11%	1,389.5	0.11%	1,710.8	0.13%
EPSRC Total		37,164	776,720.1	59.02%	802,856.5	61.01%	777,443.6	59.08%
n01	Consortia	3,359	120,215.1	9.13%	117,494.8	8.93%	96,098.1	7.30%
n02	Consortia	17,824	162,034.3	12.31%	162,145.9	12.32%	169,465.1	12.88%
n03	Consortia	3,141	69,054.9	5.25%	69,059.2	5.25%	75,148.2	5.71%
NERC Total		24,324	351,304.3	26.69%	348,699.9	26.50%	340,711.3	25.89%
e568	Research	0	0.0	0.00%	0.0	0.00%	3,888.5	0.30%
BBSRC Total		0	0.0	0.00%	0.0	0.00%	3,888.5	0.30%
pr1u0002	Class1a	0	0.0	0.00%	0.0	0.00%	101.8	0.01%
pr1u0001	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	0.4	0.00%
pr1u1363	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	2,687.8	0.20%
pr1u1451	DECI: EXEC	75	4,148.4	0.32%	4,148.4	0.32%	5,645.9	0.43%
pr1u1452	DECI: EXEC	78	3,378.1	0.26%	3,378.1	0.26%	5,645.9	0.43%
pr1u1453	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	14,114.8	1.07%
pr1u1454	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	6,300.8	0.48%
pr1u1455	DECI: EXEC	22	299.7	0.02%	299.7	0.02%	972.1	0.07%
pr1u1456	DECI: EXEC	26	13,641.9	1.04%	13,641.9	1.04%	4,583.0	0.35%
pr1u1457	DECI: EXEC	19	2,666.6	0.20%	2,666.6	0.20%	250.2	0.02%
pr1utd01	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	195.1	0.01%
pr1utd02	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	188.2	0.01%
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	0	0.0	0.00%	0.0	0.00%	856.1	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		220	24,134.8	1.83%	24,134.8	1.83%	41,542.8	3.16%
ecse0803	eCSE	79	434.1	0.03%	434.1	0.03%	40.2	0.00%
ecse0809	eCSE	0	0.0	0.00%	0.0	0.00%	2.2	0.00%
ecse0820	eCSE	122	2.6	0.00%	2.6	0.00%	45.5	0.00%
ecse0904	eCSE	26	188.5	0.01%	188.5	0.01%	42.5	0.00%
ecse0910	eCSE	22	8.0	0.00%	8.0	0.00%	40.3	0.00%
ecse0919	eCSE	0	0.0	0.00%	0.0	0.00%	36.3	0.00%
ecse1002	eCSE	0	0.0	0.00%	0.0	0.00%	78.4	0.01%
ecse1101	eCSE	0	0.0	0.00%	0.0	0.00%	208.8	0.02%
ecse1109	eCSE	0	0.0	0.00%	0.0	0.00%	41.0	0.00%
ecse1112	eCSE	0	0.0	0.00%	0.0	0.00%	52.0	0.00%
ecse1204	eCSE	0	0.0	0.00%	0.0	0.00%	22.1	0.00%
ecse1208	eCSE	0	0.0	0.00%	0.0	0.00%	7.3	0.00%
ecse1209	eCSE	0	0.0	0.00%	0.0	0.00%	4.3	0.00%
ecse1210	eCSE	0	0.0	0.00%	0.0	0.00%	741.1	0.06%
ecse1217	eCSE	0	0.0	0.00%	0.0	0.00%	13.9	0.00%
ecse1220	eCSE	0	0.0	0.00%	0.0	0.00%	39.5	0.00%
eCSE Total		249	633.2	0.05%	633.2	0.05%	1,415.5	0.11%
d43	ECDF	63	1,574.0	0.12%	1,574.0	0.12%	2,544.5	0.19%
d25	Research	0	0.0	0.00%	0.0	0.00%	424.1	0.03%
d35	Research	53	0.5	0.00%	0.5	0.00%	424.1	0.03%
d56	Research	500	4,688.6	0.36%	4,688.6	0.36%	6,843.2	0.52%
d60	Research	0	0.0	0.00%	0.0	0.00%	84.8	0.01%
d67	Research	110	66.5	0.01%	66.5	0.01%	169.6	0.01%
d71	Research	0	0.0	0.00%	0.0	0.00%	84.8	0.01%
d87	Research	6	0.0	0.00%	0.4	0.00%	0.1	0.00%
d88	Research	69	1.6	0.00%	1.6	0.00%	13.4	0.00%
d100	Research	64	230.0	0.02%	230.0	0.02%	171.1	0.01%

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d101	Research	92	1,145.2	0.09%	1,145.2	0.09%	508.9	0.04%
d107	Research	0	0.0	0.00%	0.0	0.00%	42.4	0.00%
d114	Research	176	3,307.9	0.25%	3,308.1	0.25%	9,014.4	0.68%
d118	Research	0	0.0	0.00%	0.0	0.00%	105.3	0.01%
d137	Research	309	3,338.2	0.25%	3,338.2	0.25%	2,544.5	0.19%
d142	Research	8	26.7	0.00%	26.7	0.00%	8,554.0	0.65%
d143	Research	1	1.8	0.00%	1.8	0.00%	4,277.0	0.32%
d145	Research	0	0.0	0.00%	0.0	0.00%	254.5	0.02%
d146	Research	0	0.0	0.00%	0.0	0.00%	344.1	0.03%
d149	Research	523	14,323.3	1.09%	14,323.4	1.09%	4,620.6	0.35%
d150	Research	94	3,102.4	0.24%	3,102.4	0.24%	8,211.8	0.62%
d155	Research	10,204	2,315.6	0.18%	2,331.0	0.18%	1,696.3	0.13%
d166	Research	209	1,603.6	0.12%	1,603.8	0.12%	2,027.4	0.15%
d421	Research	0	0.0	0.00%	0.0	0.00%	1,640.1	0.12%
d153	Industrial	347	264.1	0.02%	265.0	0.02%	1,251.1	0.10%
d156	Industrial	0	0.0	0.00%	0.0	0.00%	85.5	0.01%
d165	Industrial	0	0.0	0.00%	0.0	0.00%	42.4	0.00%
e540	Industrial	0	0.0	0.00%	0.0	0.00%	1,759.4	0.13%
i01	Industrial	5	0.9	0.00%	0.9	0.00%	79.2	0.01%
i18	Industrial	508	17,708.8	1.35%	17,709.6	1.35%	2,928.7	0.22%
i20	Industrial	0	0.0	0.00%	0.0	0.00%	102.2	0.01%
i22	Industrial	0	0.0	0.00%	0.0	0.00%	199.7	0.02%
i200	Industrial	0	0.0	0.00%	0.0	0.00%	42.4	0.00%
i219	Industrial	0	0.0	0.00%	0.0	0.00%	42.4	0.00%
i225	Industrial	0	0.0	0.00%	0.0	0.00%	84.8	0.01%
i228	Industrial	0	0.0	0.00%	0.0	0.00%	397.1	0.03%
i229	Industrial	0	0.0	0.00%	0.0	0.00%	65.9	0.01%
x06	Industrial	0	0.0	0.00%	0.0	0.00%	2.7	0.00%
x08	Industrial	0	0.0	0.00%	0.0	0.00%	1,366.0	0.10%
d74	Training	2,099	367.3	0.03%	367.3	0.03%	101.8	0.01%
d104	Training	11	2.1	0.00%	2.1	0.00%	793.9	0.06%
d133	Training	0	0.0	0.00%	0.0	0.00%	42.5	0.00%
d154	Training	1,986	484.8	0.04%	484.8	0.04%	253.1	0.02%
e482	Training	0	0.0	0.00%	0.0	0.00%	25.4	0.00%
d131	Service	269	491.0	0.04%	491.0	0.04%	910.7	0.07%
d134	Service	0	0.0	0.00%	0.0	0.00%	42.4	0.00%
y01	Service	0	0.0	0.00%	0.0	0.00%	8.5	0.00%
y02	Service	11	1.3	0.00%	1.3	0.00%	84.8	0.01%
y07	Service	5	0.0	0.00%	0.2	0.00%	8.5	0.00%
z02	Service	0	0.0	0.00%	0.0	0.00%	42.4	0.00%
z99	Service	23	0.6	0.00%	0.6	0.00%	8.5	0.00%
d84	UoE Seedcorn	0	0.0	0.00%	0.0	0.00%	84.8	0.01%
e579	UoE Supercomputing	0	0.0	0.00%	0.0	0.00%	95.5	0.01%
DirectorsTime Total		17,745	55,047.0	4.18%	55,065.3	4.18%	65,553.4	4.98%
y14	Training	1,532	1,173.3	0.09%	890.7	0.07%	593.7	0.05%
y21	Service	21	23.9	0.00%	23.9	0.00%	424.1	0.03%
z19	Service	219	1,519.8	0.12%	1,519.8	0.12%	1,696.3	0.13%
CSE Total		1,772	2,716.9	0.21%	2,434.3	0.18%	2,714.2	0.21%
Total		81,474	1,210,556.3	91.99%	1,233,823.9	93.76%	1,233,269.3	93.71%

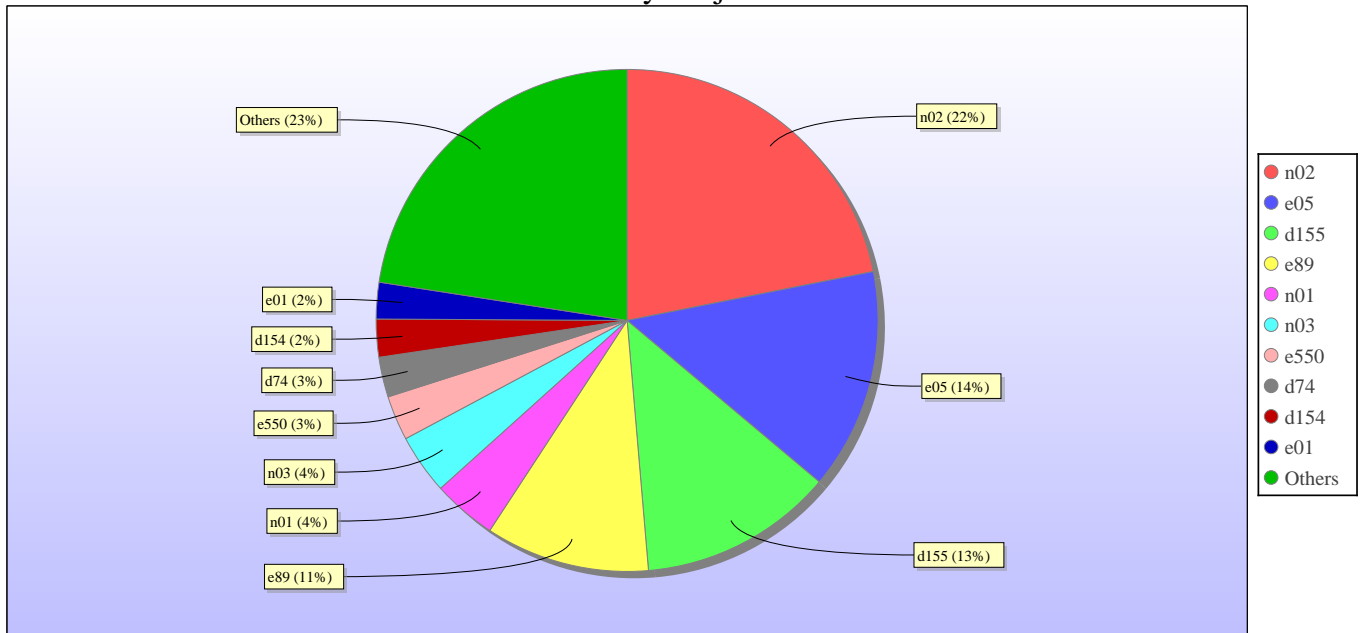
Use by Project



Uncharged Use by Project



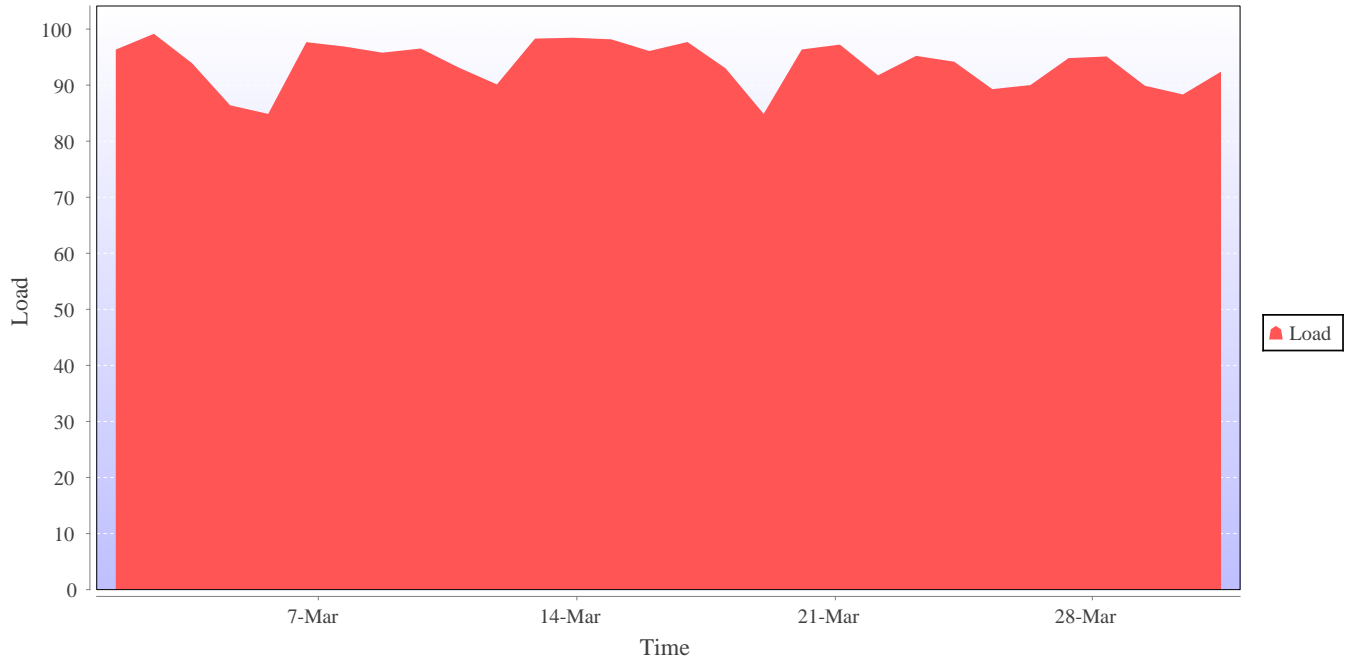
Jobs by Project



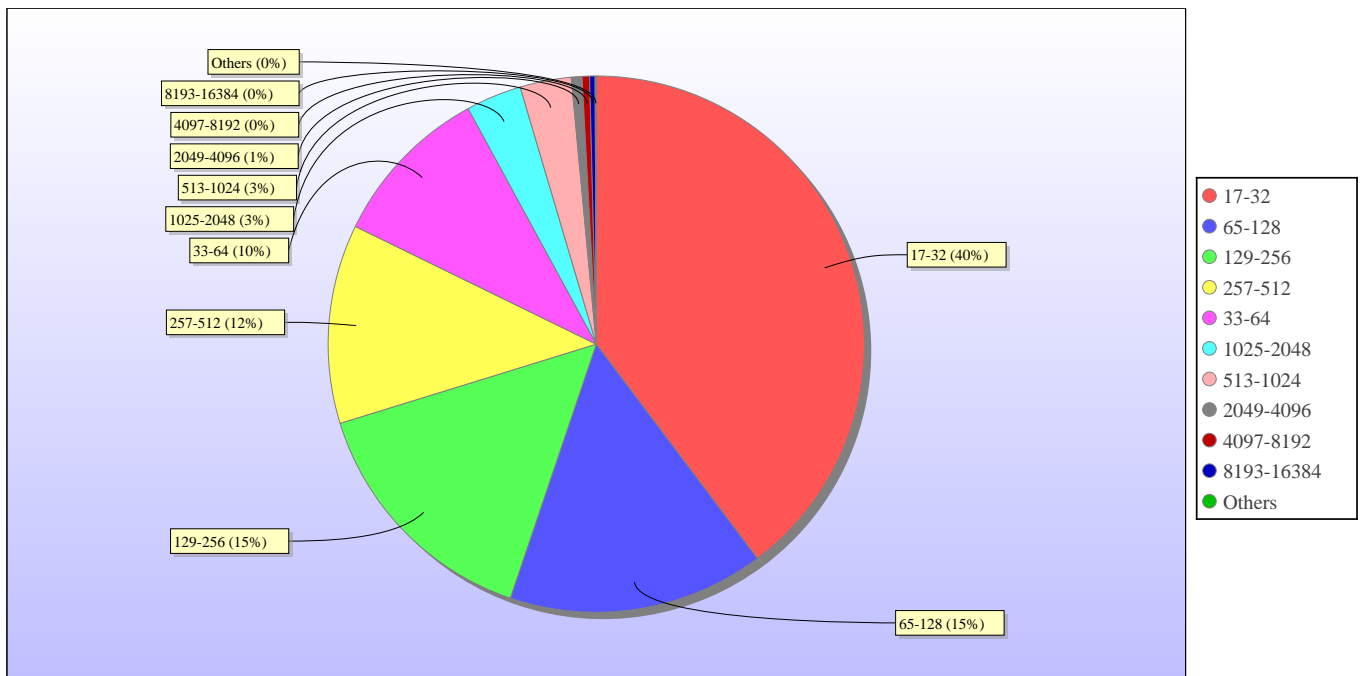
kAUs (by Size)

Size	kAUs	Number of Jobs
17-32	12,997.157	32,372
33-64	15,648.432	8,013
65-128	84,765.878	12,586
129-256	183,204.513	12,248
257-512	258,281.228	9,778
513-1024	211,419.698	2,517
1025-2048	179,968.529	2,728
2049-4096	94,470.337	524
4097-8192	72,767.238	368
8193-16384	73,459.961	264
16385-32768	12,633.539	50
32769-65536	951.959	8

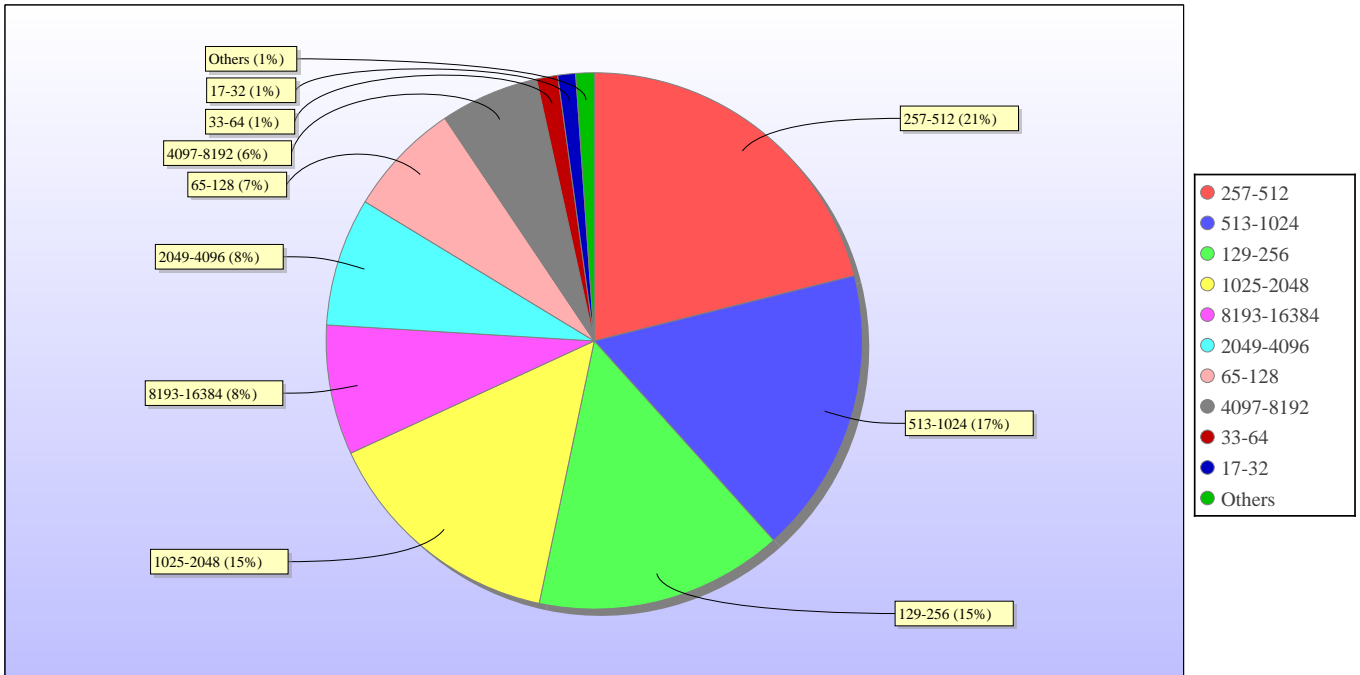
Load plots



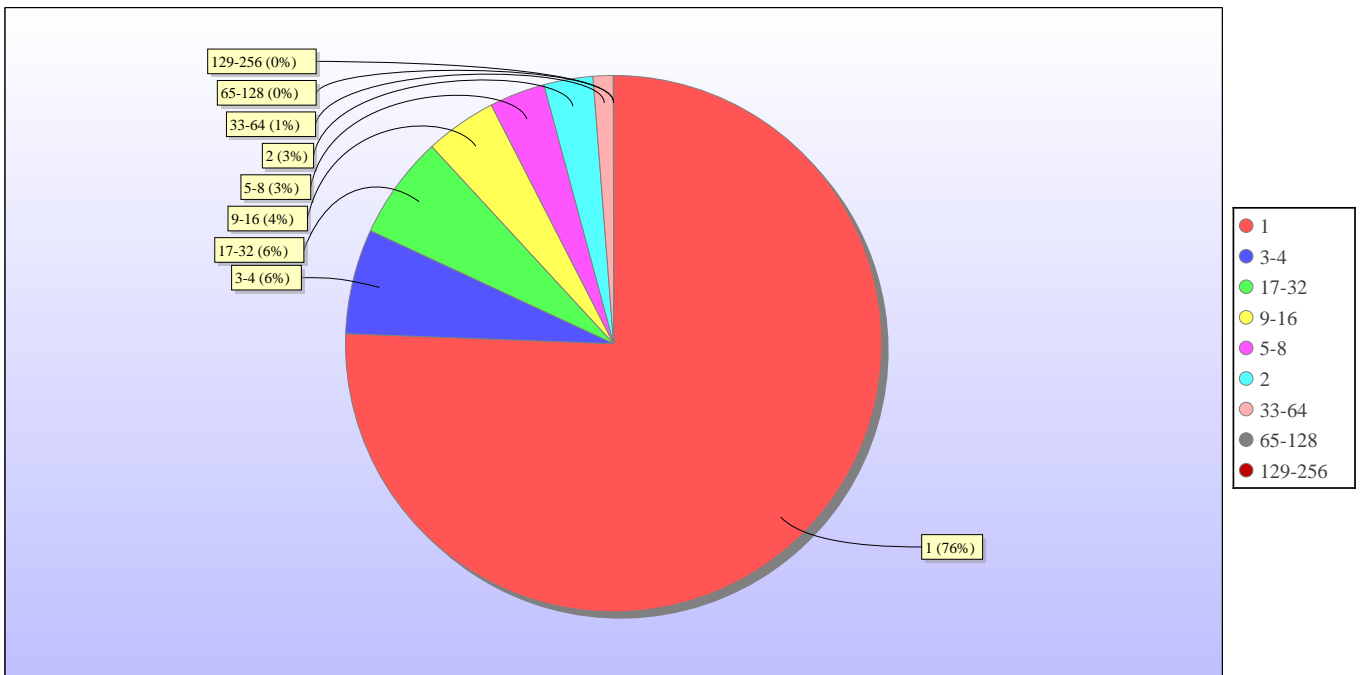
Percentage load on machine



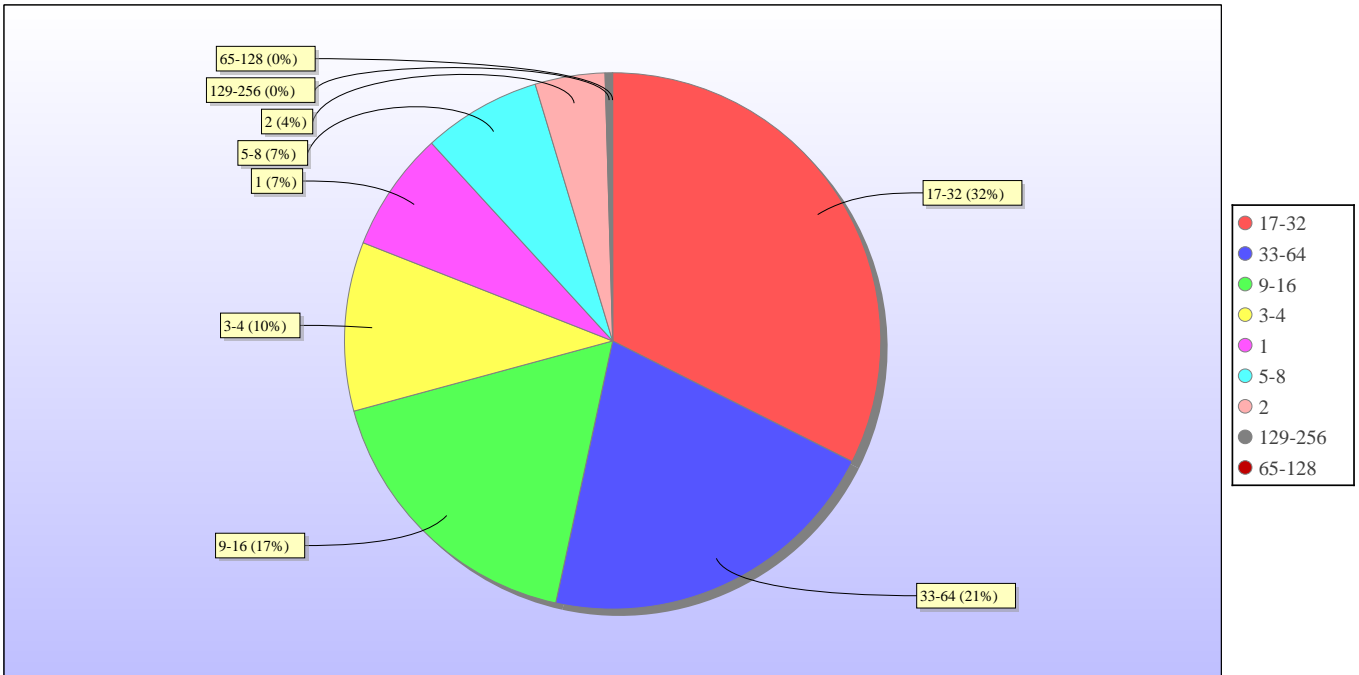
Jobs by Size



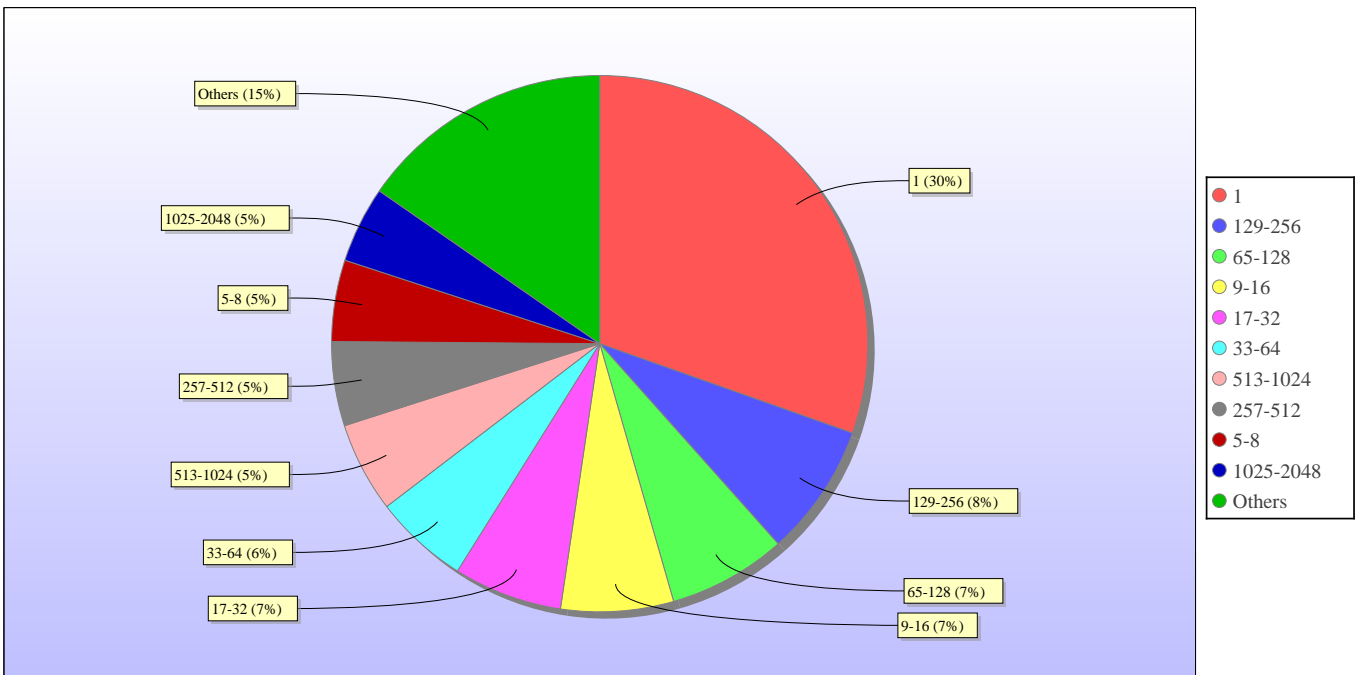
kAUs used by Size



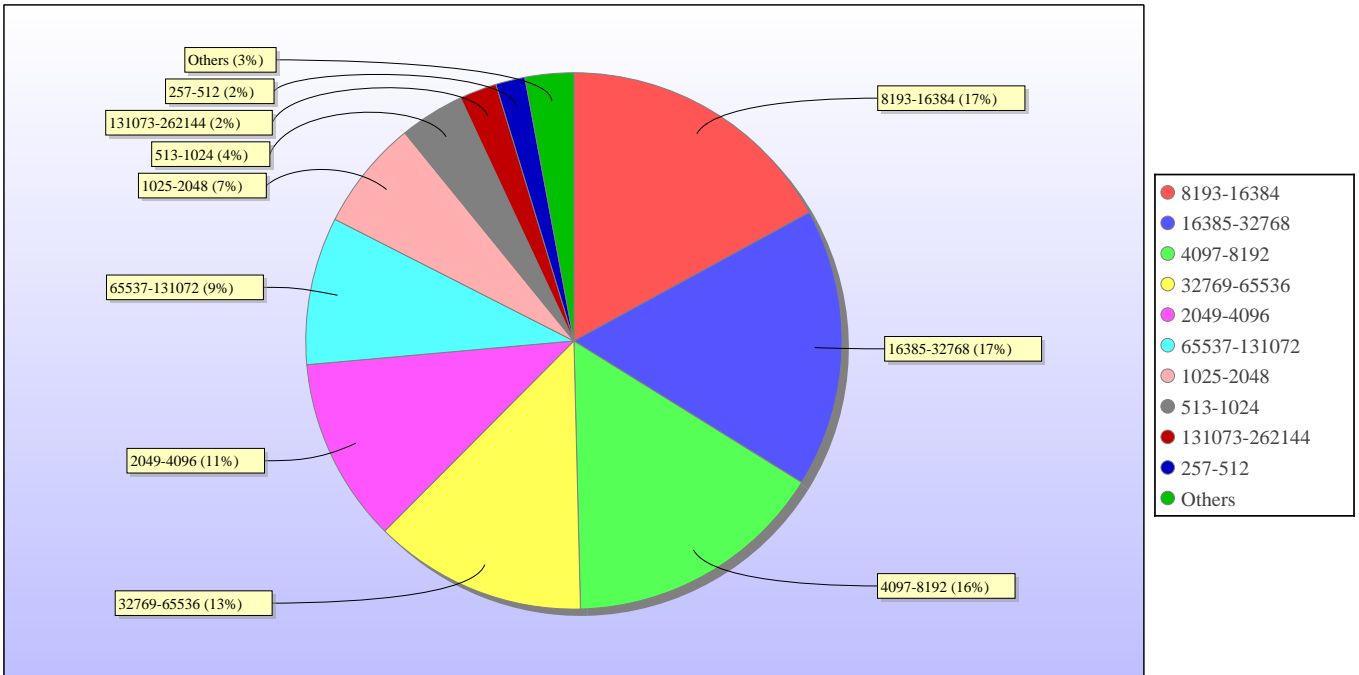
Jobs grouped by wall-clock-hours



kAUs used grouped by wall-clock-hours



Jobs grouped by core-hours

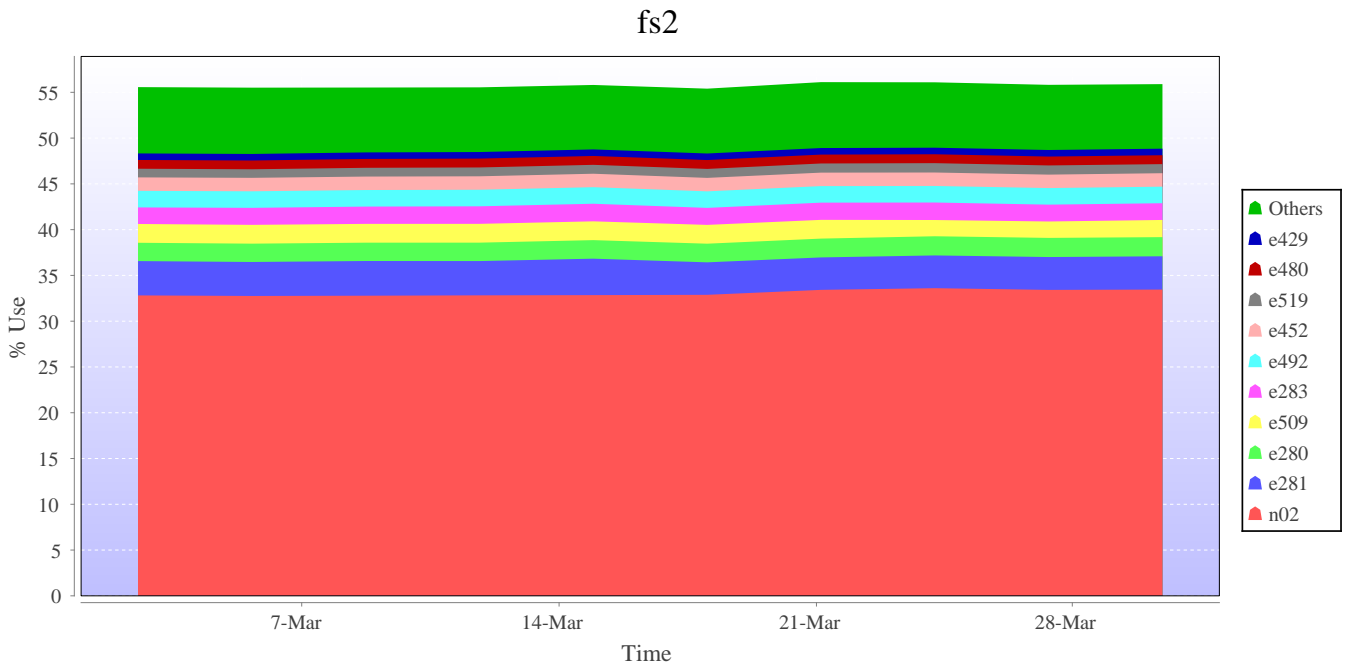


kAUs used grouped by core-hours

Disk usage

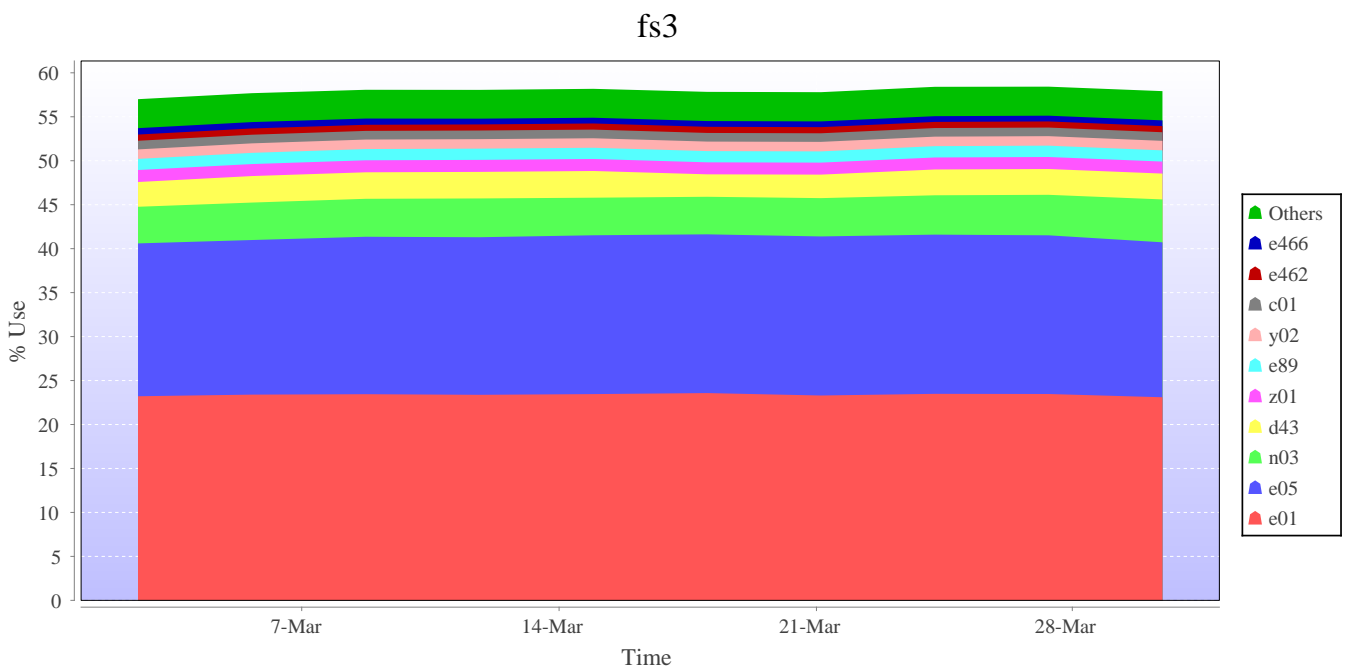
Disk usage for work (fs2)

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.



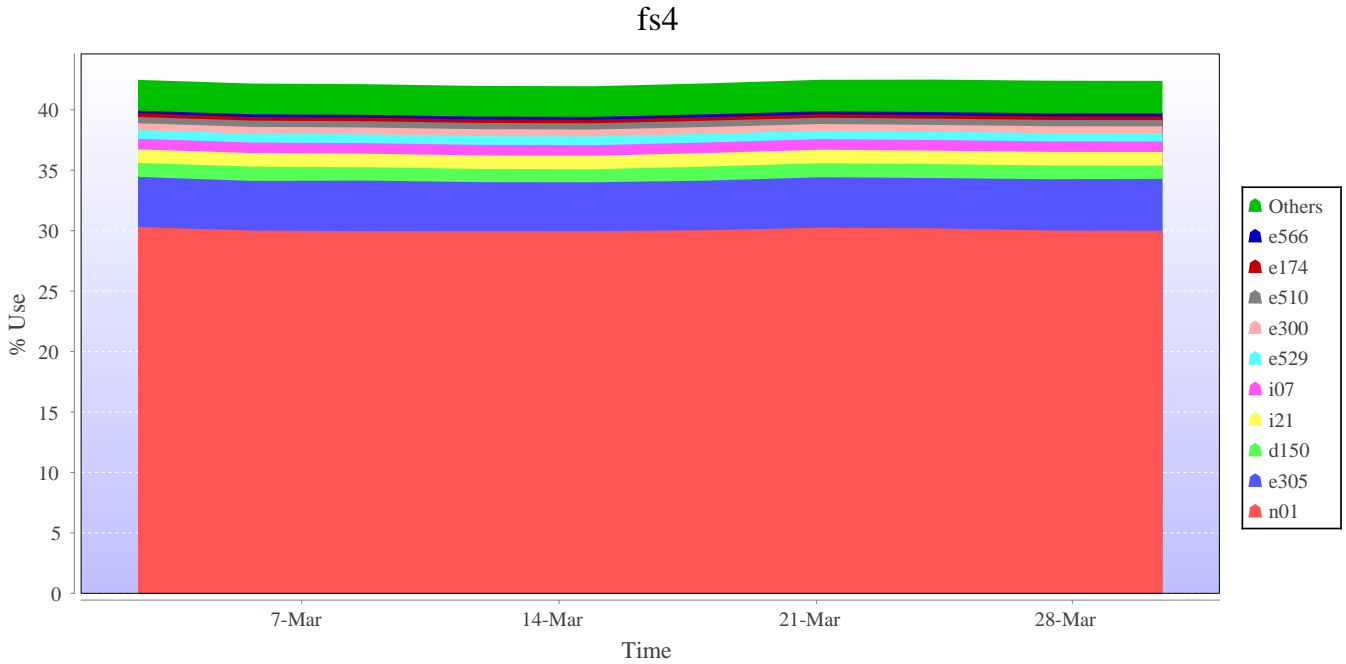
Disk usage for work (fs3)

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.



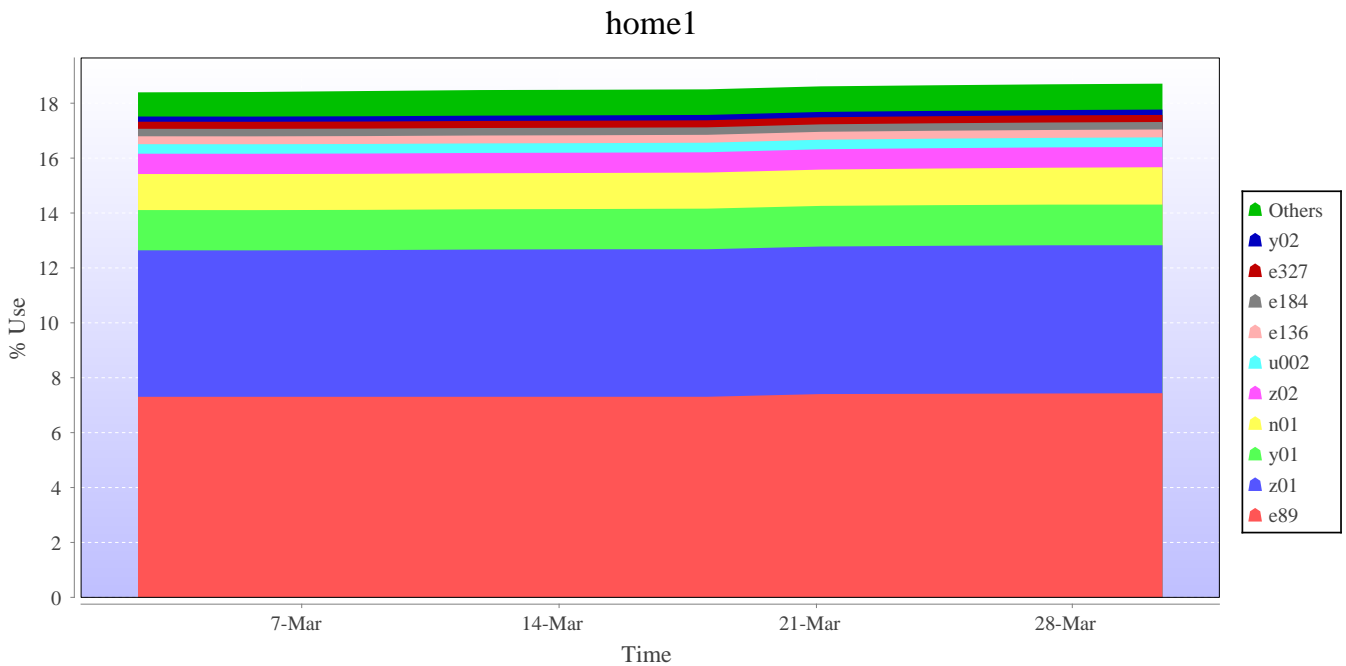
Disk usage for work (fs4)

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.



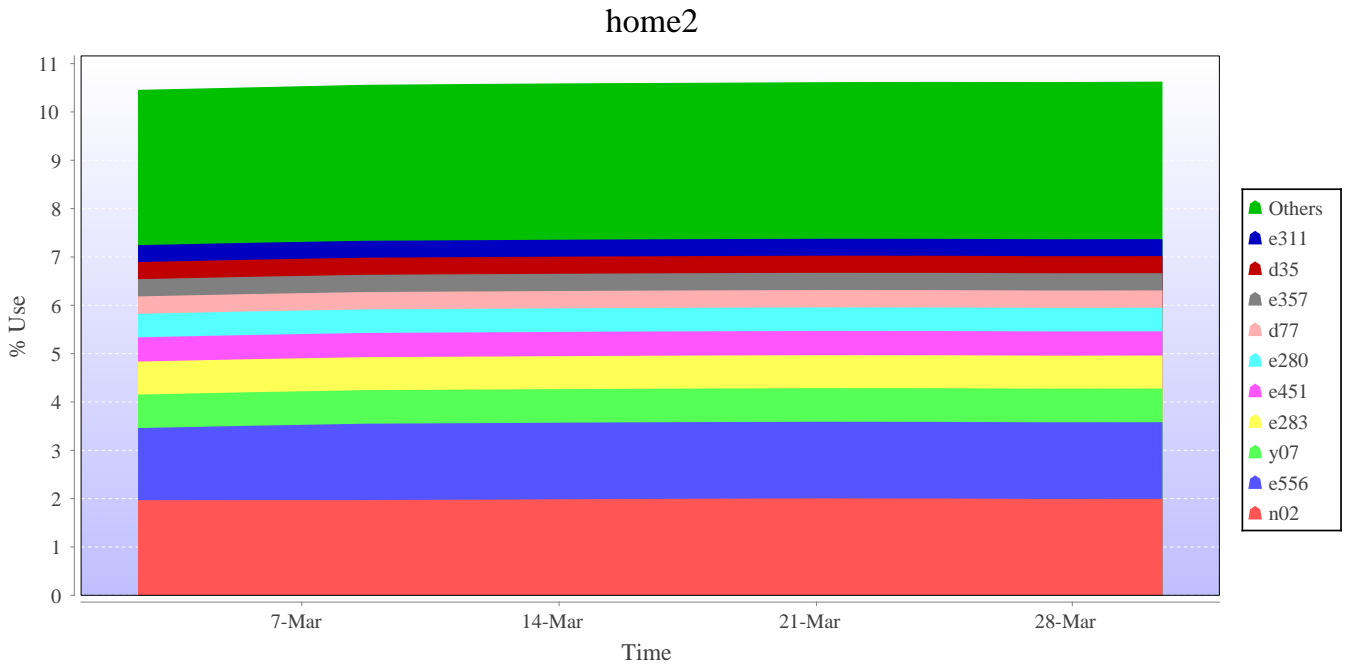
Disk usage for home (home1)

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.



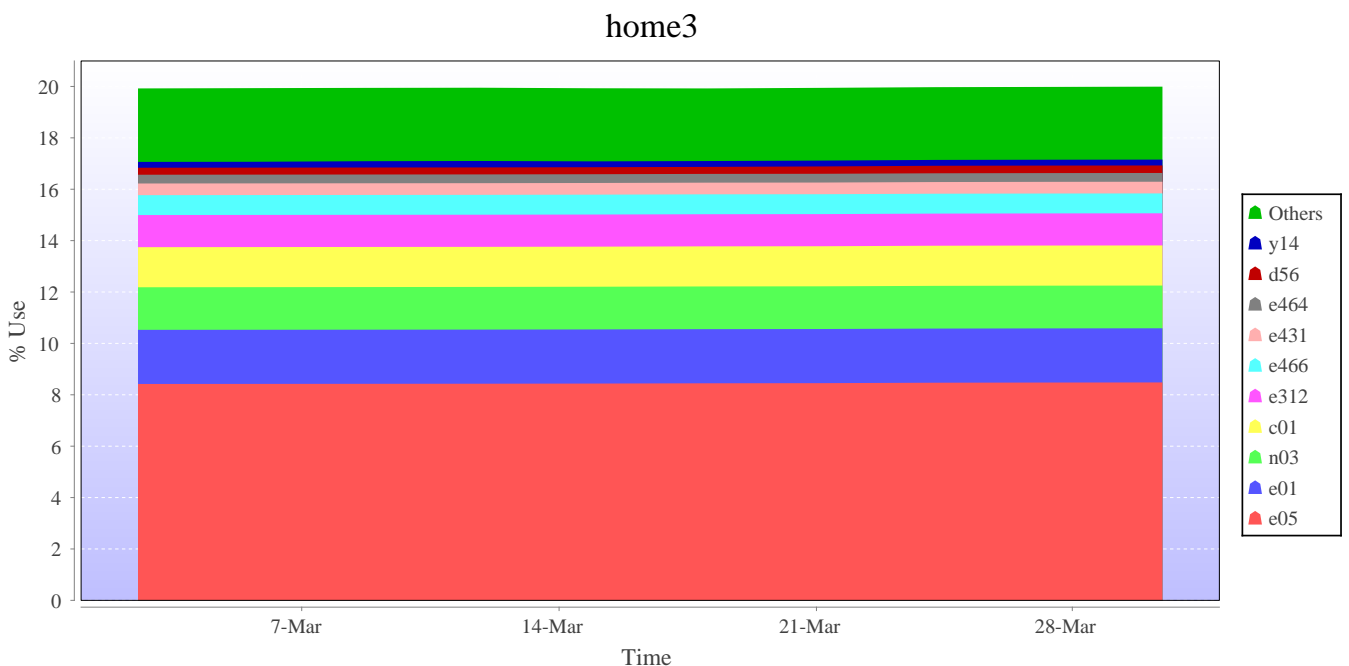
Disk usage for home (home2)

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.

