

# Monthly Reporting

## Report from 01 February 2018 to 28 February 2018

### Report for Resource Pool XC on ARCHER

A total of 1,190,246.397 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.

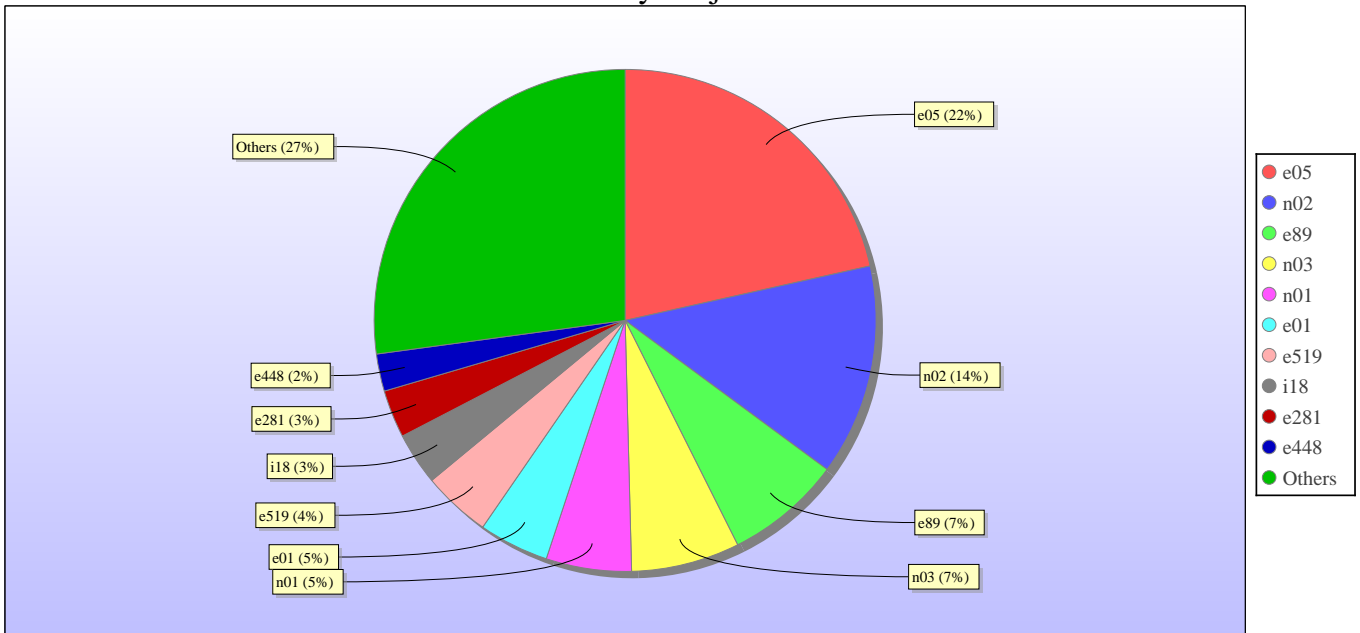
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e01	Consortia	954	48,194.7	4.05%	49,604.1	4.17%	65,682.1	5.52%
e05	Consortia	10,551	204,257.8	17.16%	236,383.7	19.86%	200,599.4	16.85%
e89	Consortia	8,818	81,341.7	6.83%	82,223.9	6.91%	109,868.4	9.23%
e280	Consortia	1,114	17,869.1	1.50%	17,869.1	1.50%	36,407.4	3.06%
e281	Consortia	10,539	33,778.9	2.84%	33,781.6	2.84%	19,422.0	1.63%
e283	Consortia	814	5,187.4	0.44%	5,187.8	0.44%	15,598.9	1.31%
e305	Consortia	1,153	23,477.1	1.97%	23,482.0	1.97%	20,073.2	1.69%
e529	Consortia	0	0.0	0.00%	0.0	0.00%	9,279.6	0.78%
e462	Leadership Awards	34	1,035.4	0.09%	1,036.4	0.09%	6,268.9	0.53%
e464	Leadership Awards	381	4,559.4	0.38%	4,559.4	0.38%	4,595.4	0.39%
e507	Leadership Awards	193	8,735.2	0.73%	8,735.2	0.73%	9,788.0	0.82%
e509	Leadership Awards	0	0.0	0.00%	0.0	0.00%	16,923.1	1.42%
e510	Leadership Awards	15	1,388.3	0.12%	1,388.6	0.12%	7,736.6	0.65%
e526	Leadership Awards	12	7,176.7	0.60%	7,176.7	0.60%	7,183.7	0.60%
e572	Leadership Awards	0	0.0	0.00%	0.0	0.00%	1,538.8	0.13%
c01	Class1a	791	4,768.1	0.40%	4,768.2	0.40%	5,848.8	0.49%
e174	Class1a	0	0.0	0.00%	0.0	0.00%	0.5	0.00%
e229	Class1a	0	0.0	0.00%	0.0	0.00%	418.7	0.04%
e291	Class1a	0	0.0	0.00%	0.0	0.00%	149.0	0.01%
e304	Class1a	113	1,814.2	0.15%	1,814.2	0.15%	4,774.2	0.40%
e332	Class1a	0	0.0	0.00%	0.0	0.00%	53.1	0.00%
e341	Class1a	0	0.0	0.00%	0.0	0.00%	3,868.3	0.32%
e358	Class1a	307	2,747.3	0.23%	2,760.0	0.23%	594.4	0.05%
e365	Class1a	136	8,177.2	0.69%	8,177.2	0.69%	4,387.5	0.37%
e375	Class1a	5	3,989.2	0.34%	3,989.2	0.34%	2,783.9	0.23%
e378	Class1a	83	6,845.9	0.58%	6,845.9	0.58%	4,455.9	0.37%
e403	Class1a	0	0.0	0.00%	0.0	0.00%	7,788.1	0.65%
e429	Class1a	0	0.0	0.00%	0.0	0.00%	951.4	0.08%
e431	Class1a	11	134.0	0.01%	134.0	0.01%	857.2	0.07%
e432	Class1a	24	1,605.0	0.13%	1,605.0	0.13%	6,346.4	0.53%
e448	Class1a	914	26,407.6	2.22%	26,407.6	2.22%	31,858.3	2.68%
e475	Class1a	559	2,577.3	0.22%	2,577.3	0.22%	3,016.8	0.25%
e480	Class1a	35	2,280.4	0.19%	2,280.4	0.19%	3,588.9	0.30%
e499	Class1a	5	0.7	0.00%	0.7	0.00%	9,919.1	0.83%
e513	Class1a	5	24.7	0.00%	24.7	0.00%	160.9	0.01%
e514	Class1a	0	0.0	0.00%	0.0	0.00%	154.7	0.01%
e515	Class1a	253	313.2	0.03%	313.2	0.03%	2,600.4	0.22%

Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e516	Class1a	87	3,552.8	0.30%	3,552.8	0.30%	11,900.1	1.00%
e517	Class1a	0	0.0	0.00%	0.0	0.00%	0.0	0.00%
e518	Class1a	0	0.0	0.00%	0.0	0.00%	461.5	0.04%
e519	Class1a	355	48,356.2	4.06%	48,356.5	4.06%	15,384.6	1.29%
e520	Class1a	1	1.4	0.00%	1.4	0.00%	3,900.5	0.33%
e523	Class1a	51	14,026.9	1.18%	14,027.0	1.18%	6,189.3	0.52%
e527	Class1a	1,107	2,001.7	0.17%	2,001.7	0.17%	1,565.5	0.13%
e530	Class1a	0	0.0	0.00%	0.0	0.00%	923.1	0.08%
e537	Class1a	0	0.0	0.00%	0.0	0.00%	1,027.7	0.09%
e558	Class1a	248	3,302.0	0.28%	3,302.0	0.28%	682.9	0.06%
e570	Class1a	108	11,881.7	1.00%	11,881.7	1.00%	3,385.6	0.28%
e571	Class1a	0	0.0	0.00%	0.0	0.00%	76.9	0.01%
e580	Class1a	0	0.0	0.00%	0.0	0.00%	1,053.0	0.09%
e554	Class1b	1	0.0	0.00%	0.0	0.00%	118.2	0.01%
e348	Direct Access: ARCHER RAP	61	1,313.5	0.11%	1,313.5	0.11%	2,526.8	0.21%
e484	Direct Access: ARCHER RAP	98	5,064.2	0.43%	5,064.2	0.43%	1,396.9	0.12%
e541	Direct Access: ARCHER RAP	85	317.3	0.03%	317.3	0.03%	2,452.3	0.21%
e542	Direct Access: ARCHER RAP	12	0.3	0.00%	0.3	0.00%	1,484.7	0.12%
e543	Direct Access: ARCHER RAP	207	1,711.4	0.14%	1,711.4	0.14%	1,935.4	0.16%
e545	Direct Access: ARCHER RAP	4	0.1	0.00%	0.1	0.00%	743.7	0.06%
e546	Direct Access: ARCHER RAP	124	13,712.3	1.15%	13,712.3	1.15%	2,272.7	0.19%
e547	Direct Access: ARCHER RAP	163	4,029.1	0.34%	4,029.1	0.34%	3,427.6	0.29%
e548	Direct Access: ARCHER RAP	102	3,424.6	0.29%	3,424.6	0.29%	2,120.9	0.18%
e549	Direct Access: ARCHER RAP	44	73.6	0.01%	73.6	0.01%	1,503.3	0.13%
e550	Direct Access: ARCHER RAP	2,040	5,529.4	0.46%	5,529.4	0.46%	2,301.4	0.19%
e552	Direct Access: ARCHER RAP	3	1,301.8	0.11%	1,301.8	0.11%	1,370.1	0.12%
e553	Direct Access: ARCHER RAP	143	3,482.1	0.29%	3,482.1	0.29%	2,802.6	0.24%
e564	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	4,148.2	0.35%
e565	Direct Access: ARCHER RAP	674	1,723.1	0.14%	1,723.1	0.14%	4,642.0	0.39%
e566	Direct Access: ARCHER RAP	222	12,607.5	1.06%	12,607.5	1.06%	6,205.8	0.52%
e567	Direct Access: ARCHER RAP	140	6,499.5	0.55%	6,499.6	0.55%	4,628.1	0.39%
e555	Instant Access	1,004	548.1	0.05%	548.1	0.05%	129.6	0.01%
e557	Instant Access	58	54.9	0.00%	54.9	0.00%	6.5	0.00%
e559	Instant Access	26	307.9	0.03%	307.9	0.03%	181.5	0.02%
e560	Instant Access	45	1,073.9	0.09%	1,073.9	0.09%	184.6	0.02%
e561	Instant Access	0	0.0	0.00%	0.0	0.00%	171.4	0.01%
e562	Instant Access	54	2,049.6	0.17%	2,049.6	0.17%	185.7	0.02%
e563	Instant Access	54	178.8	0.02%	178.8	0.02%	187.2	0.02%
e574	Instant Access	0	0.0	0.00%	0.0	0.00%	185.7	0.02%
e576	Instant Access	0	0.0	0.00%	0.0	0.00%	184.9	0.02%
e577	Instant Access	0	0.0	0.00%	0.0	0.00%	23.0	0.00%
e578	Instant Access	20	4.2	0.00%	4.2	0.00%	92.8	0.01%
e581	Instant Access	7	216.4	0.02%	216.4	0.02%	60.2	0.01%
e521	Training	43	79.9	0.01%	79.9	0.01%	1,593.5	0.13%
e538	Training	13	3.0	0.00%	3.0	0.00%	2,616.4	0.22%
e556	Training	279	2,970.9	0.25%	2,970.9	0.25%	2,345.6	0.20%
e573	Training	516	600.8	0.05%	600.8	0.05%	692.8	0.06%

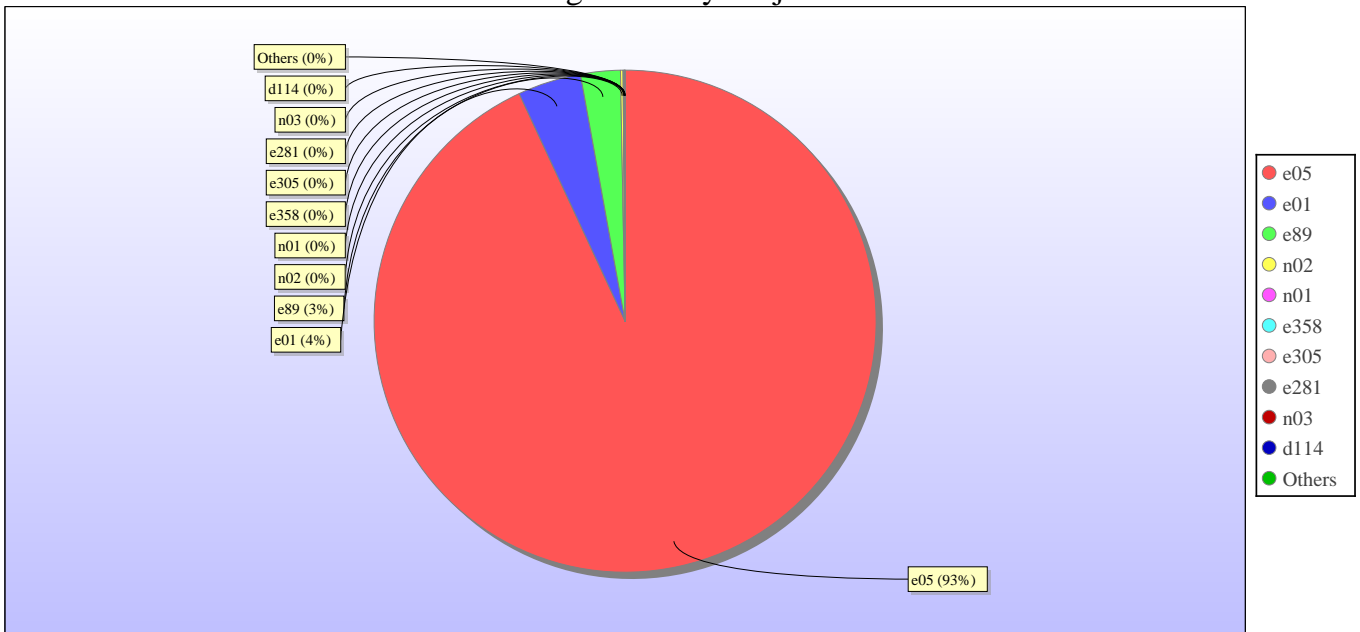
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
EPSRC Total		46,018	650,687.4	54.67%	685,127.5	57.56%	727,014.7	61.08%
n01	Consortia	2,991	60,948.1	5.12%	60,413.4	5.08%	86,915.1	7.30%
n02	Consortia	16,198	151,403.6	12.72%	149,419.3	12.55%	153,271.2	12.88%
n03	Consortia	1,932	76,780.6	6.45%	76,783.0	6.45%	67,967.1	5.71%
NERC Total		21,121	289,132.3	24.29%	286,615.7	24.08%	308,153.4	25.89%
e568	Research	0	0.0	0.00%	0.0	0.00%	3,517.0	0.30%
BBSRC Total		0	0.0	0.00%	0.0	0.00%	3,517.0	0.30%
pr1u0002	Class1a	15	0.1	0.00%	0.1	0.00%	92.1	0.01%
pr1u0001	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	0.4	0.00%
pr1u1363	DECI: EXEC	10	421.3	0.04%	421.3	0.04%	2,430.9	0.20%
pr1u1451	DECI: EXEC	248	13,261.2	1.11%	13,261.2	1.11%	5,106.4	0.43%
pr1u1452	DECI: EXEC	52	1,982.9	0.17%	1,982.9	0.17%	5,106.4	0.43%
pr1u1453	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	12,766.0	1.07%
pr1u1454	DECI: EXEC	16	6,918.8	0.58%	6,918.8	0.58%	5,698.7	0.48%
pr1u1455	DECI: EXEC	93	236.8	0.02%	236.8	0.02%	1,452.1	0.12%
pr1u1456	DECI: EXEC	64	9,633.4	0.81%	9,633.4	0.81%	4,817.5	0.40%
pr1u1457	DECI: EXEC	1	0.0	0.00%	0.0	0.00%	226.3	0.02%
pr1utd01	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	176.5	0.01%
pr1utd02	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	170.3	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%	774.3	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		499	32,454.5	2.73%	32,454.5	2.73%	38,818.4	3.26%
ecse0803	eCSE	0	0.0	0.00%	0.0	0.00%	41.9	0.00%
ecse0809	eCSE	0	0.0	0.00%	0.0	0.00%	62.7	0.01%
ecse0820	eCSE	113	1.5	0.00%	1.5	0.00%	42.6	0.00%
ecse0904	eCSE	31	9.2	0.00%	9.2	0.00%	38.4	0.00%
ecse0910	eCSE	32	27.1	0.00%	27.1	0.00%	36.5	0.00%
ecse0919	eCSE	0	0.0	0.00%	0.0	0.00%	32.9	0.00%
ecse1002	eCSE	0	0.0	0.00%	0.0	0.00%	70.9	0.01%
ecse1109	eCSE	0	0.0	0.00%	0.0	0.00%	37.1	0.00%
ecse1112	eCSE	0	0.0	0.00%	0.0	0.00%	47.0	0.00%
ecse1204	eCSE	0	0.0	0.00%	0.0	0.00%	19.9	0.00%
ecse1210	eCSE	0	0.0	0.00%	0.0	0.00%	670.3	0.06%
ecse1220	eCSE	0	0.0	0.00%	0.0	0.00%	35.7	0.00%
eCSE Total		176	37.7	0.00%	37.7	0.00%	1,135.9	0.10%
d43	ECDF	70	10,947.1	0.92%	10,947.1	0.92%	2,301.4	0.19%
d25	Research	0	0.0	0.00%	0.0	0.00%	383.6	0.03%
d35	Research	0	0.0	0.00%	0.0	0.00%	383.6	0.03%
d56	Research	220	8,678.0	0.73%	8,678.0	0.73%	6,189.3	0.52%
d60	Research	0	0.0	0.00%	0.0	0.00%	76.7	0.01%
d67	Research	55	590.2	0.05%	590.2	0.05%	153.4	0.01%
d71	Research	9	77.8	0.01%	77.8	0.01%	76.7	0.01%
d87	Research	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
d88	Research	30	9.0	0.00%	9.0	0.00%	12.1	0.00%
d100	Research	19	91.9	0.01%	91.9	0.01%	116.0	0.01%
d101	Research	154	666.7	0.06%	666.7	0.06%	383.6	0.03%
d107	Research	0	0.0	0.00%	0.0	0.00%	38.4	0.00%
d114	Research	263	10,984.8	0.92%	10,986.4	0.92%	8,153.0	0.68%
d118	Research	0	0.0	0.00%	0.0	0.00%	95.2	0.01%
d137	Research	49	4.7	0.00%	4.7	0.00%	2,301.4	0.19%
d142	Research	38	306.8	0.03%	306.8	0.03%	7,736.6	0.65%
d143	Research	13	86.4	0.01%	86.4	0.01%	3,868.3	0.32%
d145	Research	7	2,822.1	0.24%	2,822.1	0.24%	230.1	0.02%

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d146	Research	0	0.0	0.00%	0.0	0.00%	311.3	0.03%
d149	Research	518	2,994.6	0.25%	2,994.9	0.25%	3,835.6	0.32%
d150	Research	54	6,137.4	0.52%	6,137.4	0.52%	7,427.1	0.62%
d155	Research	920	4,964.8	0.42%	4,964.8	0.42%	1,534.2	0.13%
d166	Research	52	467.7	0.04%	468.0	0.04%	1,113.3	0.09%
d421	Research	0	0.0	0.00%	0.0	0.00%	1,483.4	0.12%
d153	Industrial	133	165.3	0.01%	165.6	0.01%	1,131.5	0.10%
d156	Industrial	0	0.0	0.00%	0.0	0.00%	55.2	0.00%
d165	Industrial	0	0.0	0.00%	0.0	0.00%	38.4	0.00%
e540	Industrial	0	0.0	0.00%	0.0	0.00%	1,591.3	0.13%
i01	Industrial	0	0.0	0.00%	0.0	0.00%	71.6	0.01%
i18	Industrial	574	37,102.0	3.12%	37,102.0	3.12%	2,648.9	0.22%
i20	Industrial	0	0.0	0.00%	0.0	0.00%	92.4	0.01%
i22	Industrial	0	0.0	0.00%	0.0	0.00%	180.6	0.02%
i200	Industrial	0	0.0	0.00%	0.0	0.00%	38.4	0.00%
i219	Industrial	0	0.0	0.00%	0.0	0.00%	38.4	0.00%
i225	Industrial	0	0.0	0.00%	0.0	0.00%	76.7	0.01%
i228	Industrial	0	0.0	0.00%	0.0	0.00%	218.1	0.02%
i229	Industrial	0	0.0	0.00%	0.0	0.00%	34.1	0.00%
x06	Industrial	0	0.0	0.00%	0.0	0.00%	2.4	0.00%
x08	Industrial	0	0.0	0.00%	0.0	0.00%	1,235.5	0.10%
d74	Training	2,463	81.6	0.01%	81.6	0.01%	92.1	0.01%
d104	Training	77	2.0	0.00%	2.0	0.00%	718.1	0.06%
d133	Training	0	0.0	0.00%	0.0	0.00%	38.4	0.00%
d154	Training	2,487	295.1	0.02%	295.1	0.02%	228.9	0.02%
e482	Training	0	0.0	0.00%	0.0	0.00%	23.0	0.00%
d131	Service	400	2,577.4	0.22%	2,577.4	0.22%	823.7	0.07%
d134	Service	0	0.0	0.00%	0.0	0.00%	38.4	0.00%
y01	Service	0	0.0	0.00%	0.0	0.00%	7.7	0.00%
y02	Service	25	8.7	0.00%	8.7	0.00%	76.7	0.01%
y07	Service	8	0.0	0.00%	0.0	0.00%	76.7	0.01%
z02	Service	4	0.0	0.00%	0.0	0.00%	38.4	0.00%
z17	Service	56	3,938.1	0.33%	3,938.1	0.33%	1,547.3	0.13%
z99	Service	24	0.3	0.00%	0.3	0.00%	7.7	0.00%
d84	UoE Seedcorn	0	0.0	0.00%	0.0	0.00%	76.7	0.01%
e579	UoE Supercomputing	0	0.0	0.00%	0.0	0.00%	43.2	0.00%
DirectorsTime Total		8,722	94,000.6	7.90%	94,003.0	7.90%	59,494.4	5.00%
y14	Training	2	11.1	0.00%	11.1	0.00%	537.0	0.05%
y21	Service	13	17.0	0.00%	17.0	0.00%	383.6	0.03%
z19	Service	157	375.5	0.03%	375.5	0.03%	1,534.2	0.13%
CSE Total		172	403.5	0.03%	403.5	0.03%	2,454.8	0.21%
Total		76,708	1,066,716.0	89.62%	1,098,641.8	92.30%	1,140,588.6	95.83%

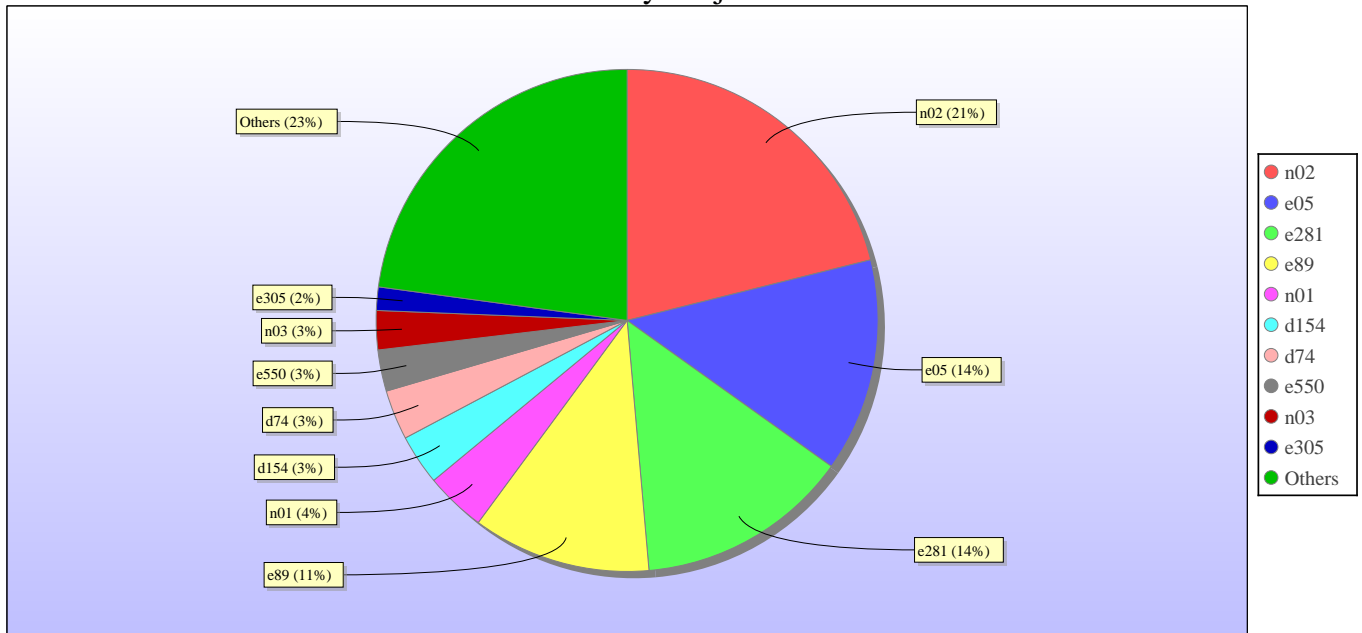
Use by Project



Uncharged Use by Project



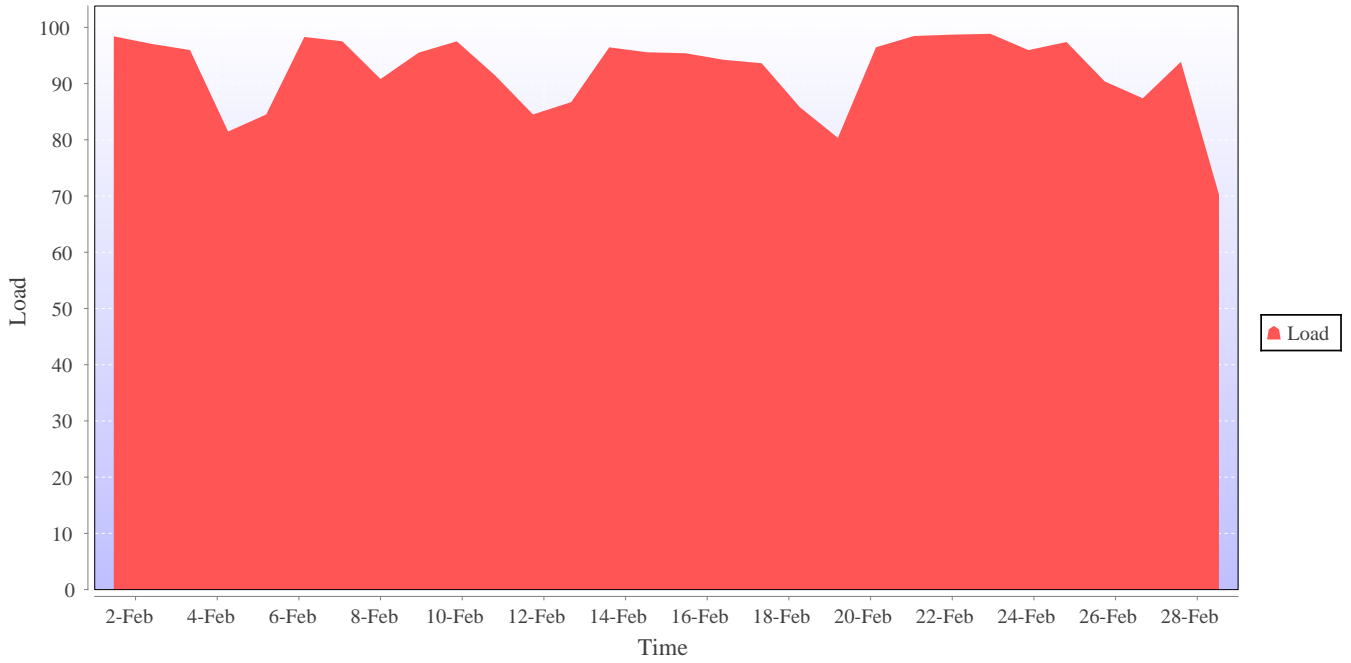
### Jobs by Project



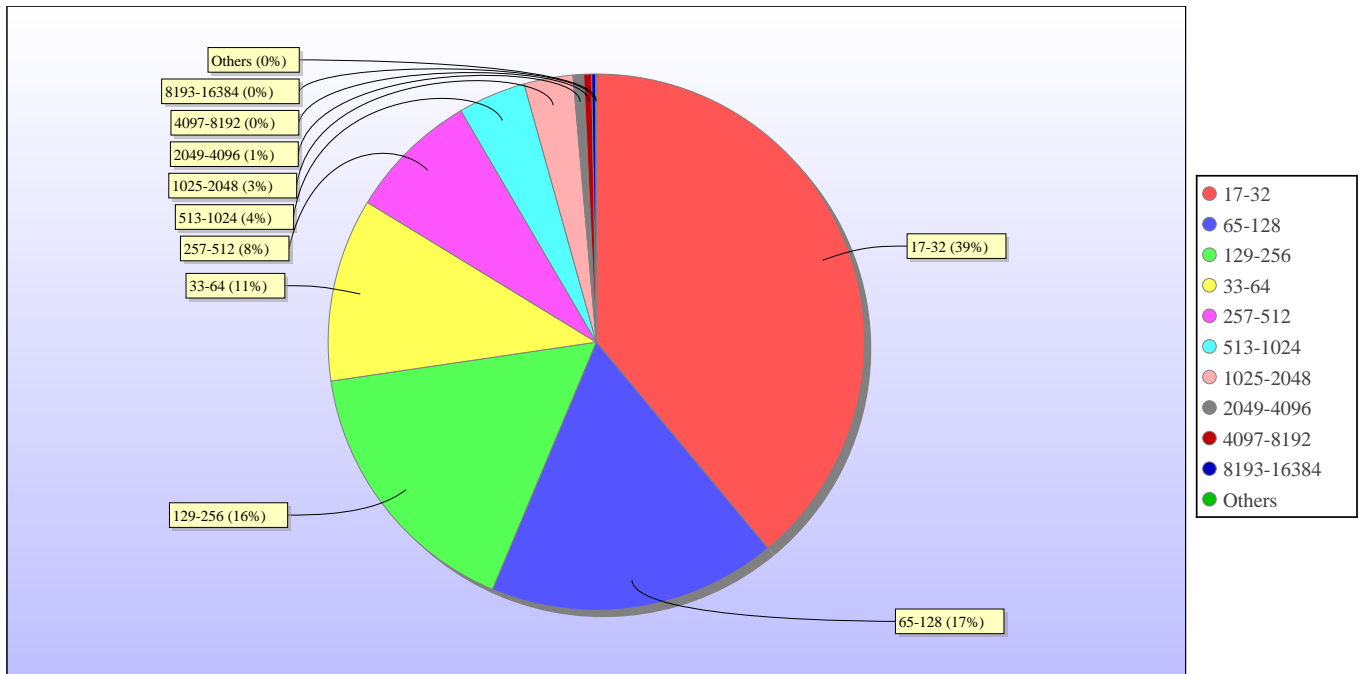
### kAUs (by Size)

Size	kAUs	Number of Jobs
17-32	8,765.661	29,875
33-64	18,446.047	8,473
65-128	69,926.195	13,333
129-256	167,380.437	12,542
257-512	190,368.159	6,022
513-1024	205,746	3,132
1025-2048	160,698.235	2,262
2049-4096	88,070.378	493
4097-8192	109,913.033	364
8193-16384	38,242.756	190
16385-32768	368.813	9
32769-65536	271.195	4
65537-131072	736.566	6

## Load plots

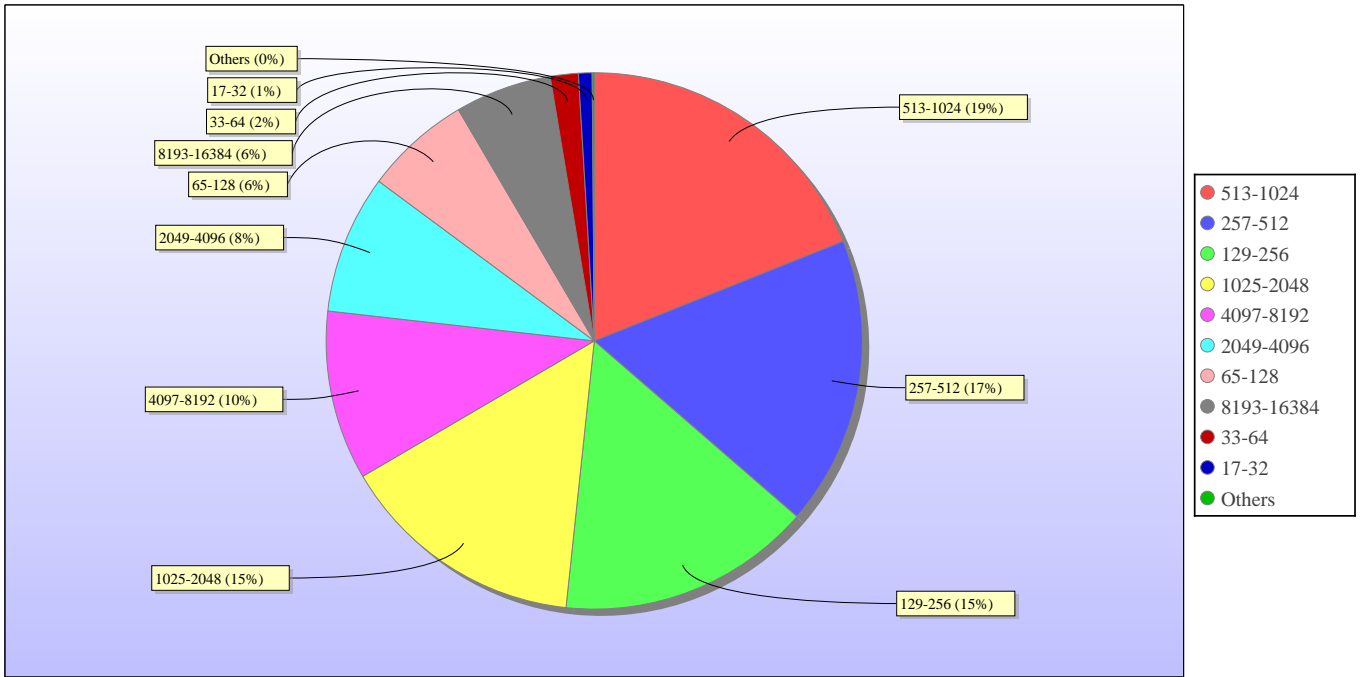


Percentage load on machine

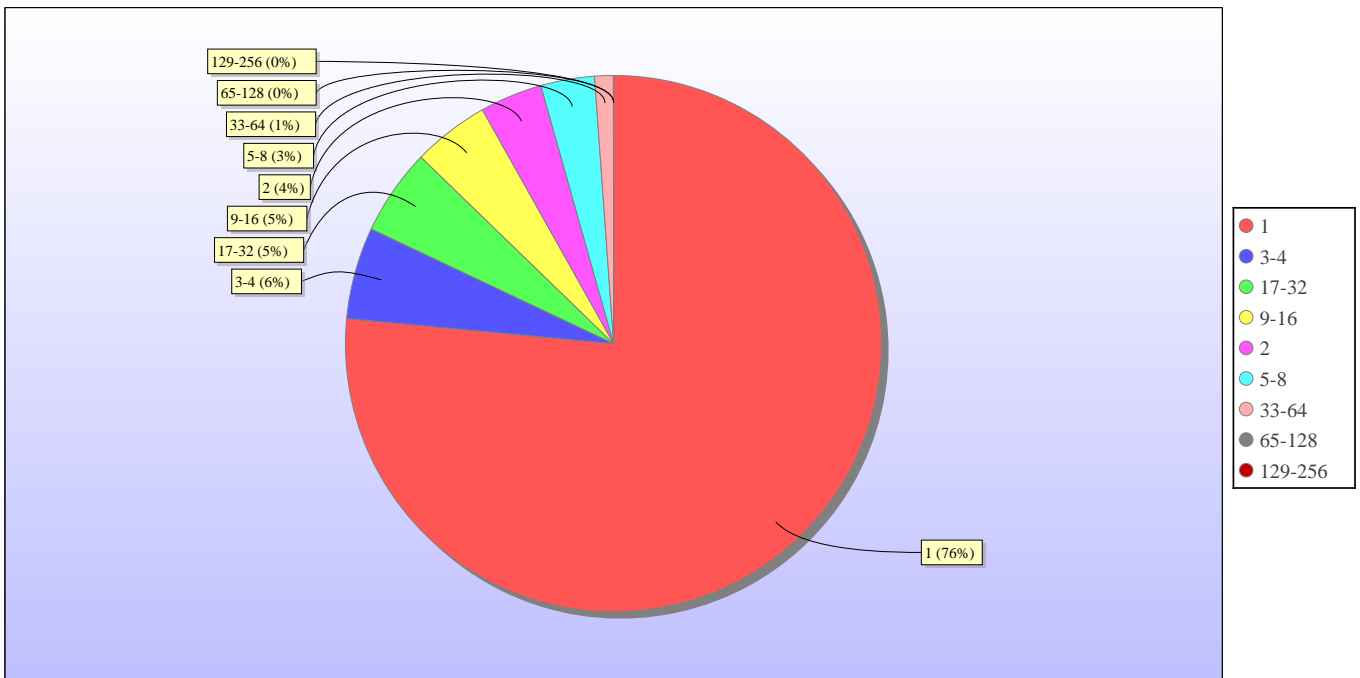


Jobs by Size

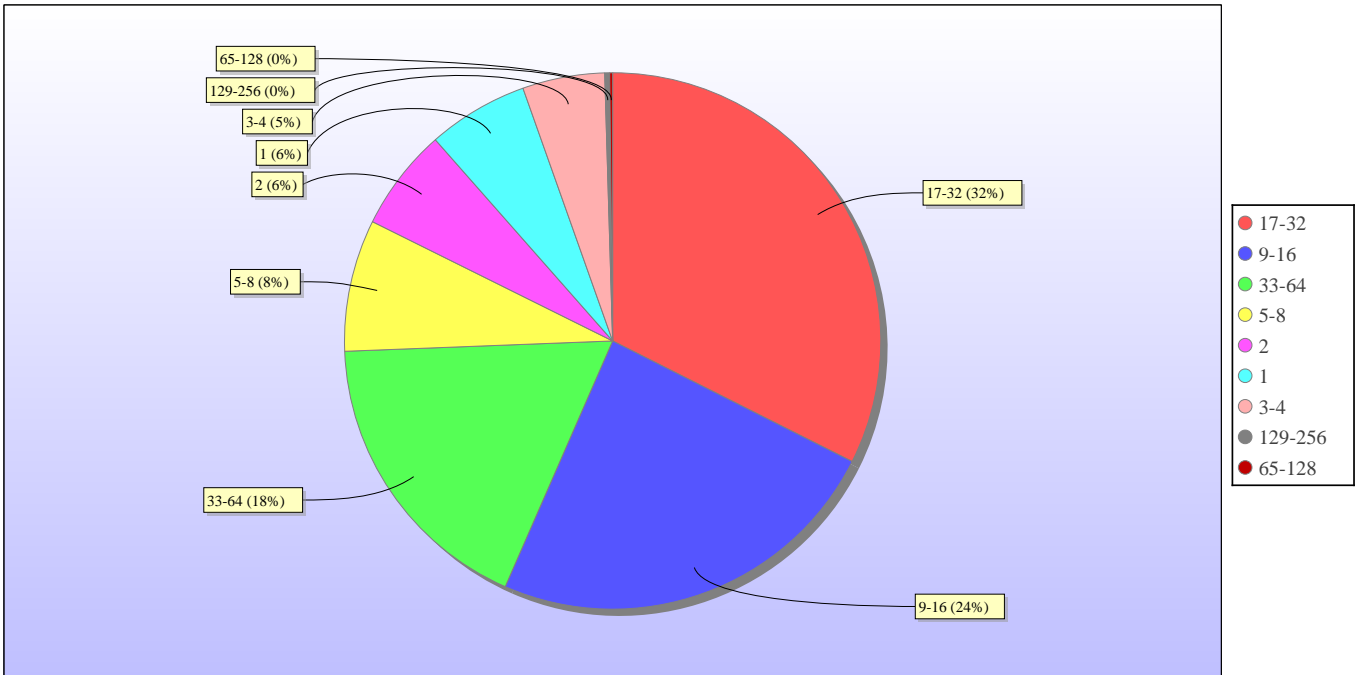




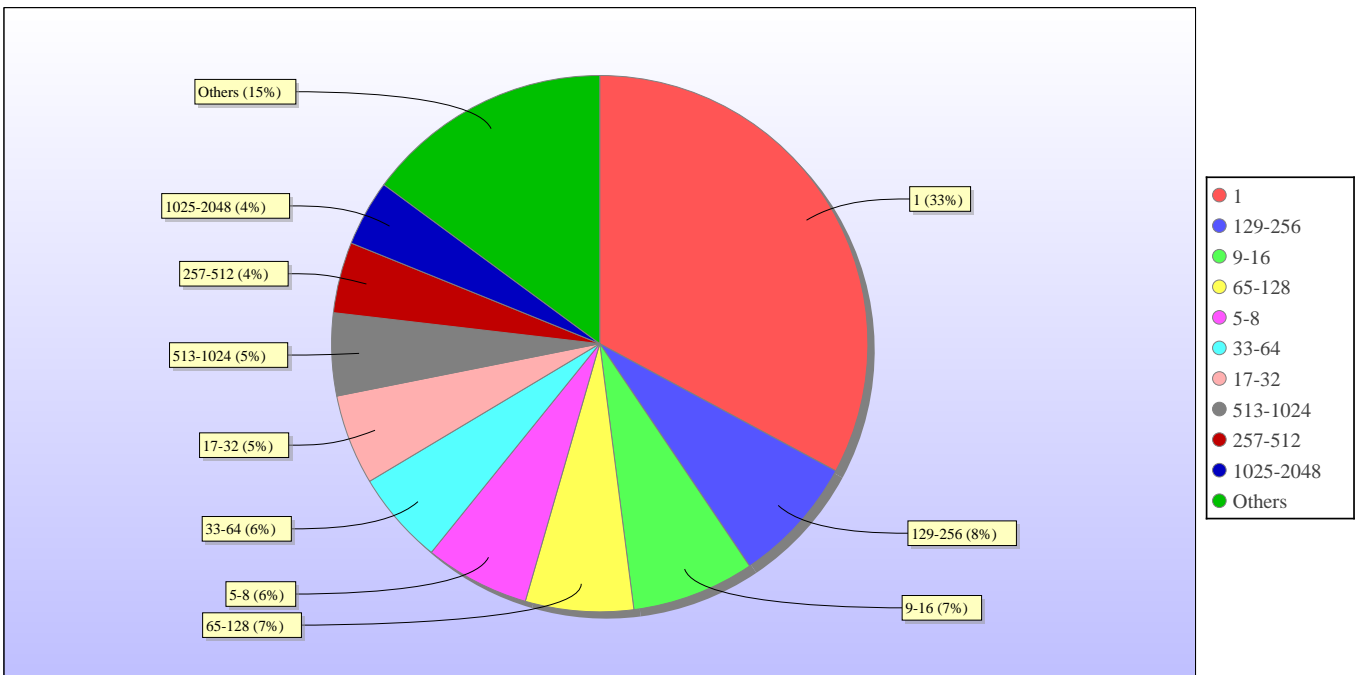
kAUs used by Size



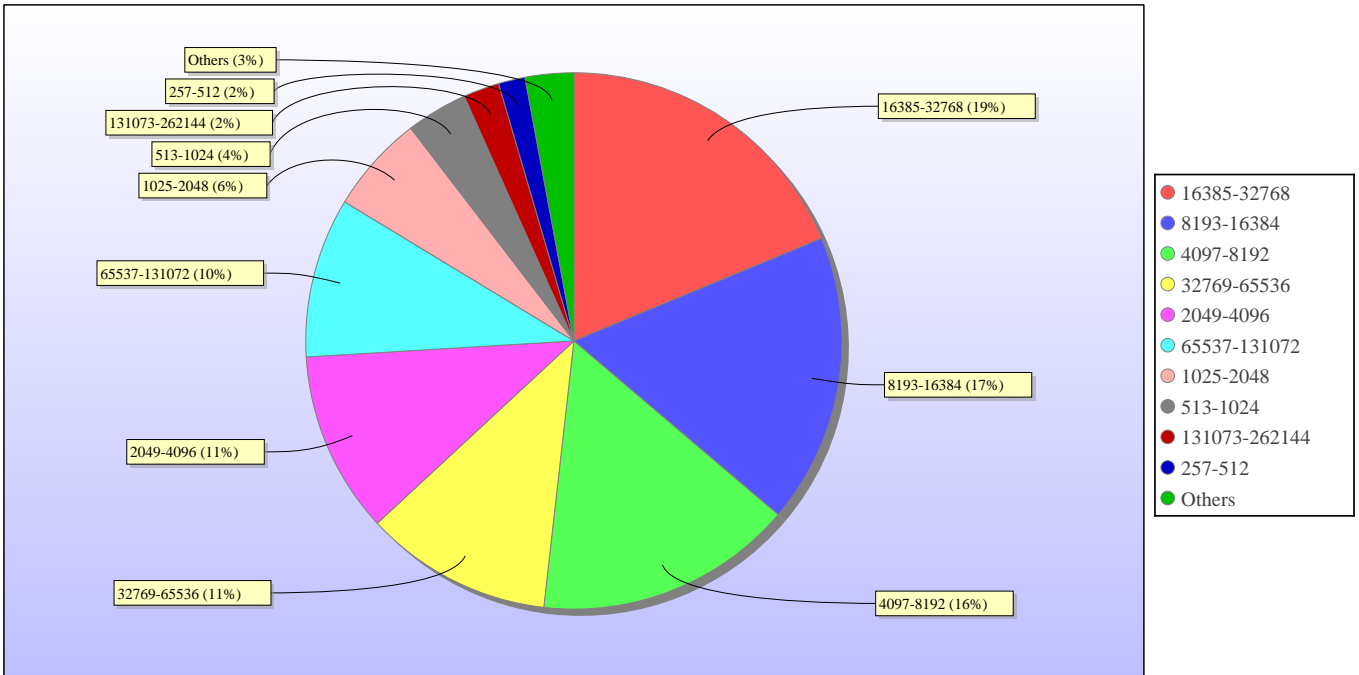
Jobs grouped by wall-clock-hours



kAUs used grouped by wall-clock-hours



Jobs grouped by core-hours

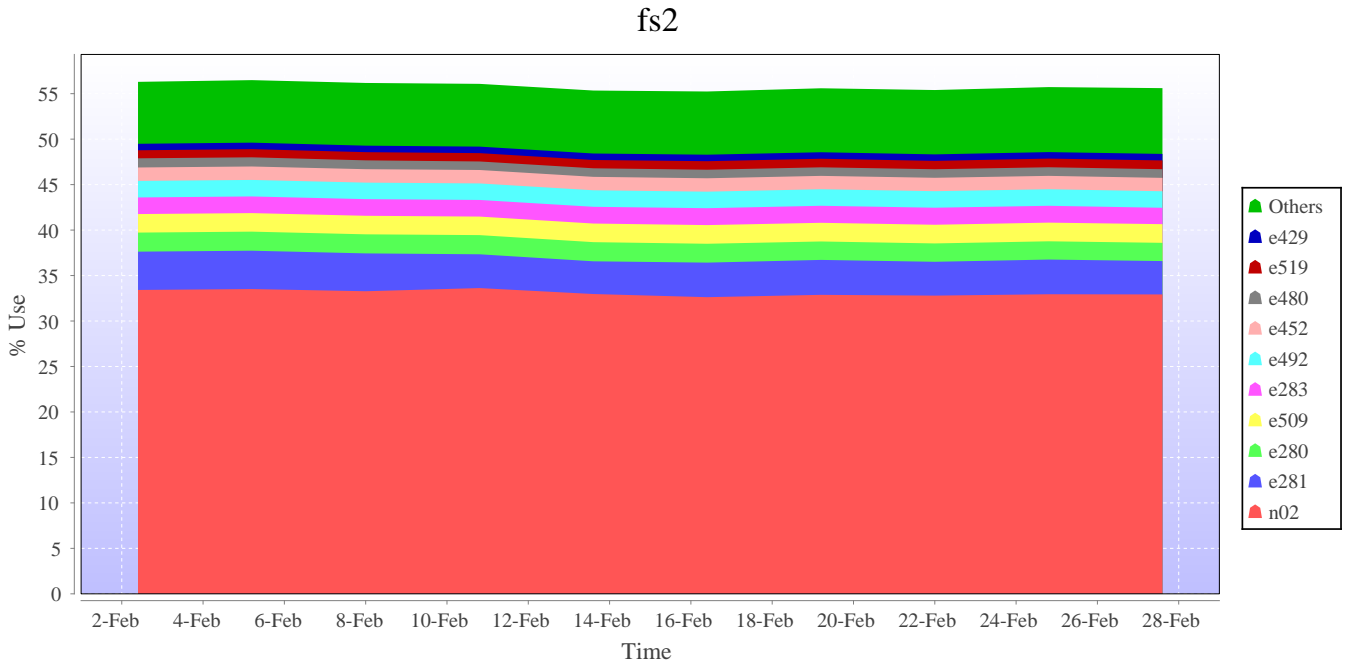


kAUs used grouped by core-hours

# Disk usage

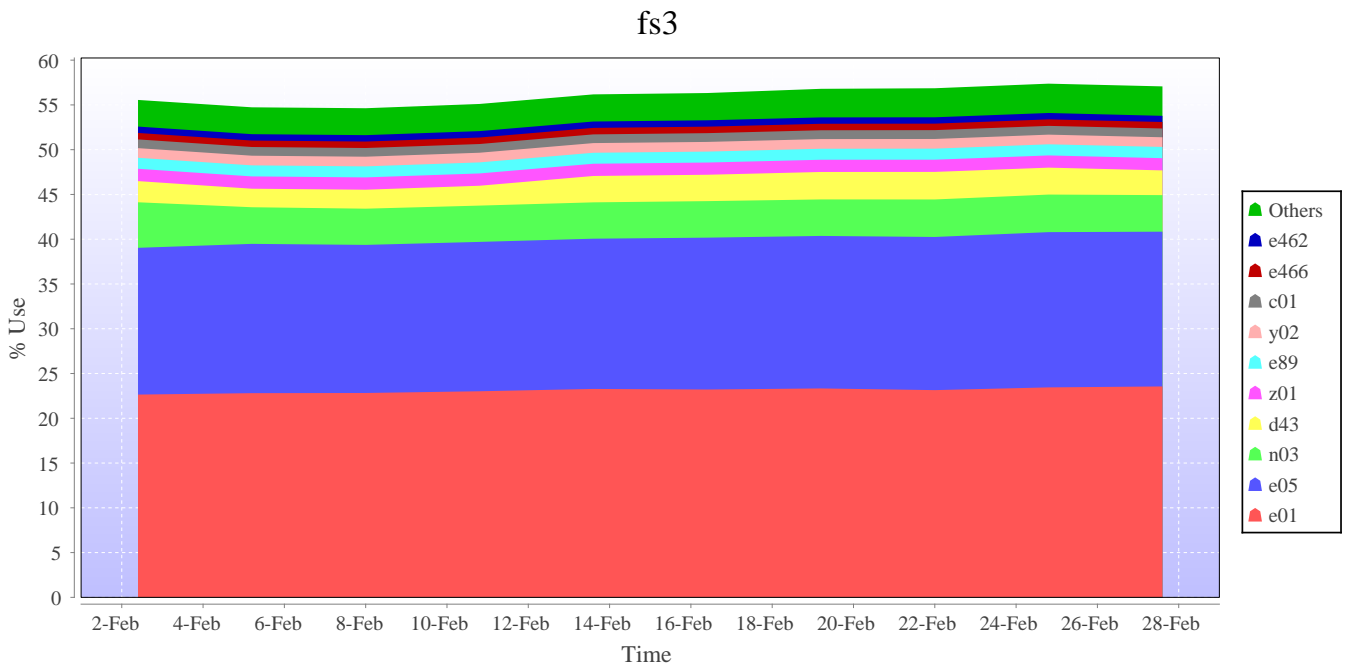
## Disk usage for work ( fs2 )

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.



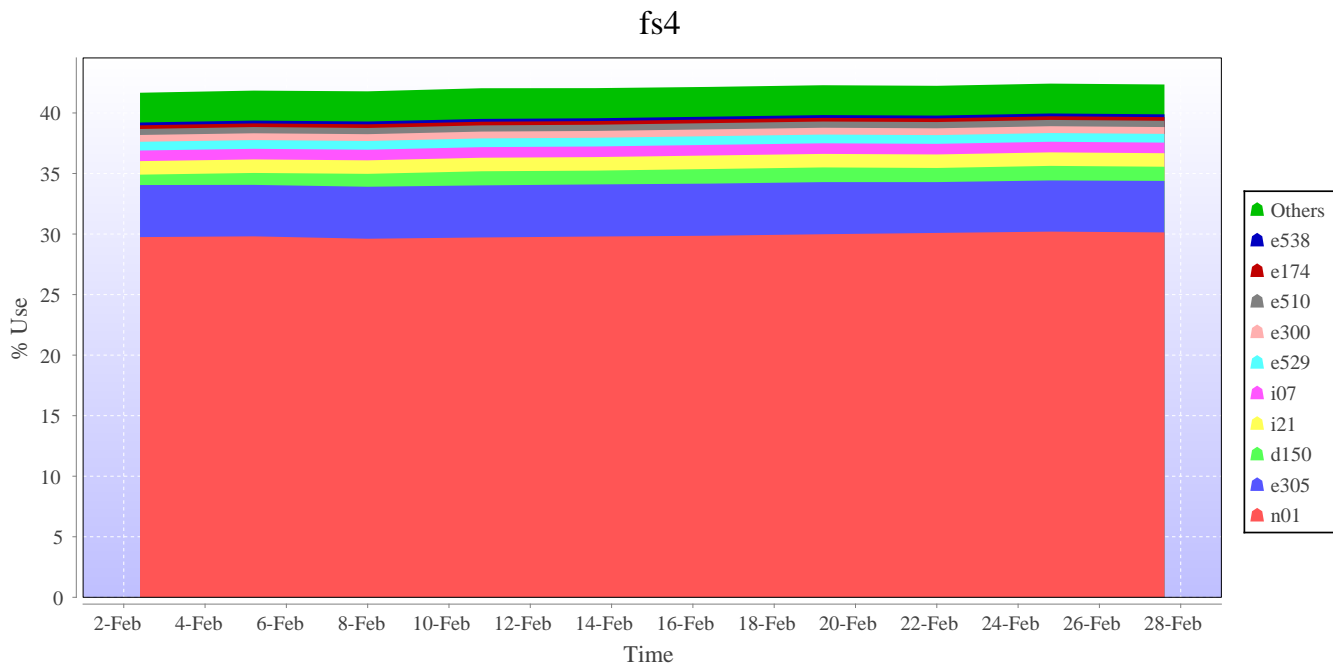
## Disk usage for work ( fs3 )

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.



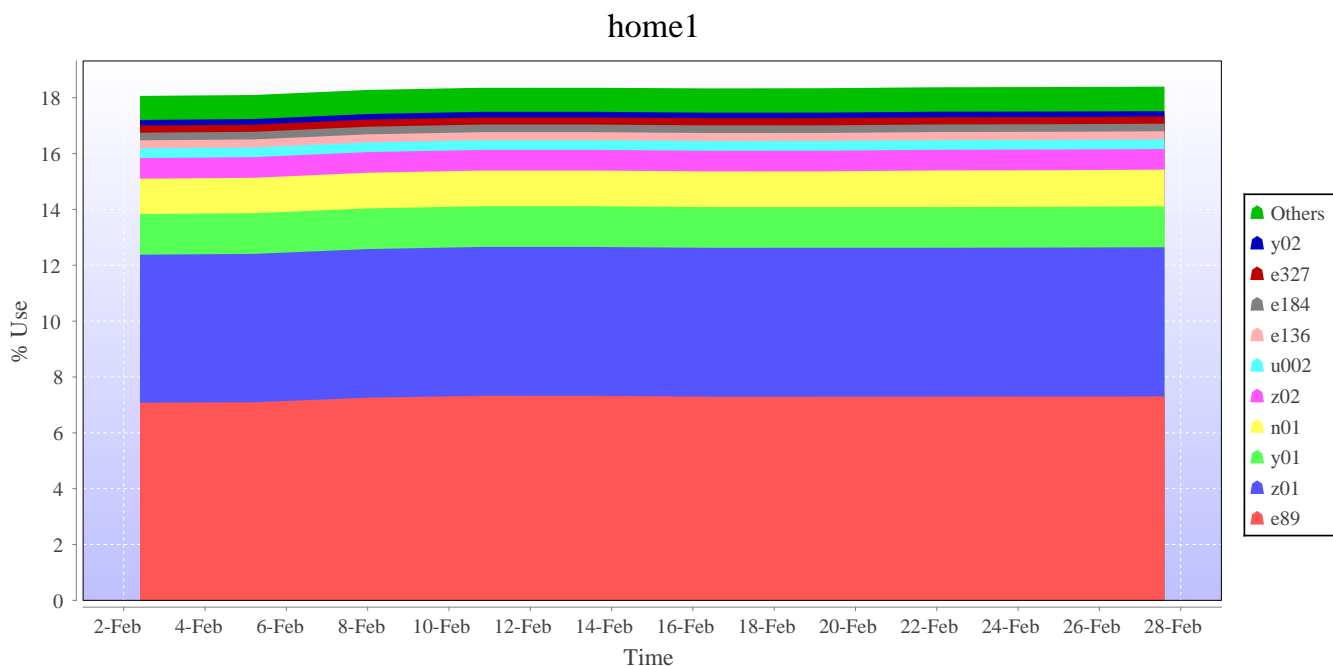
## Disk usage for work ( fs4 )

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.



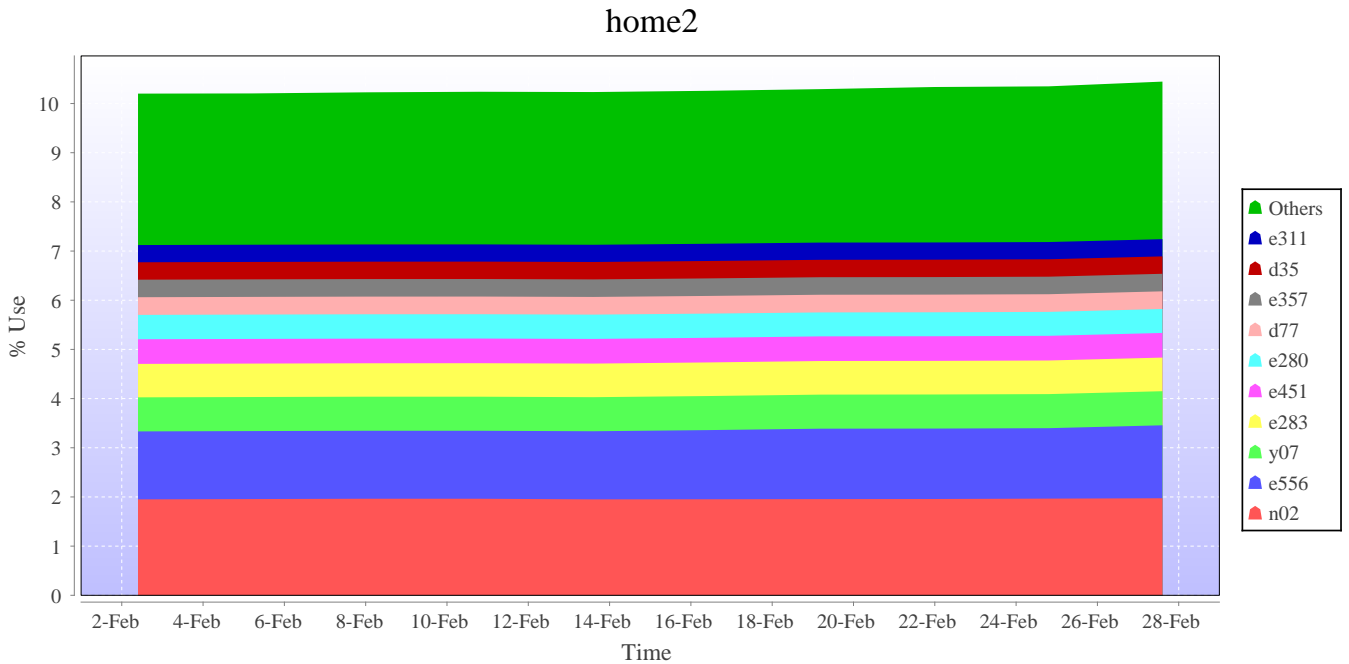
## Disk usage for home ( home1 )

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.



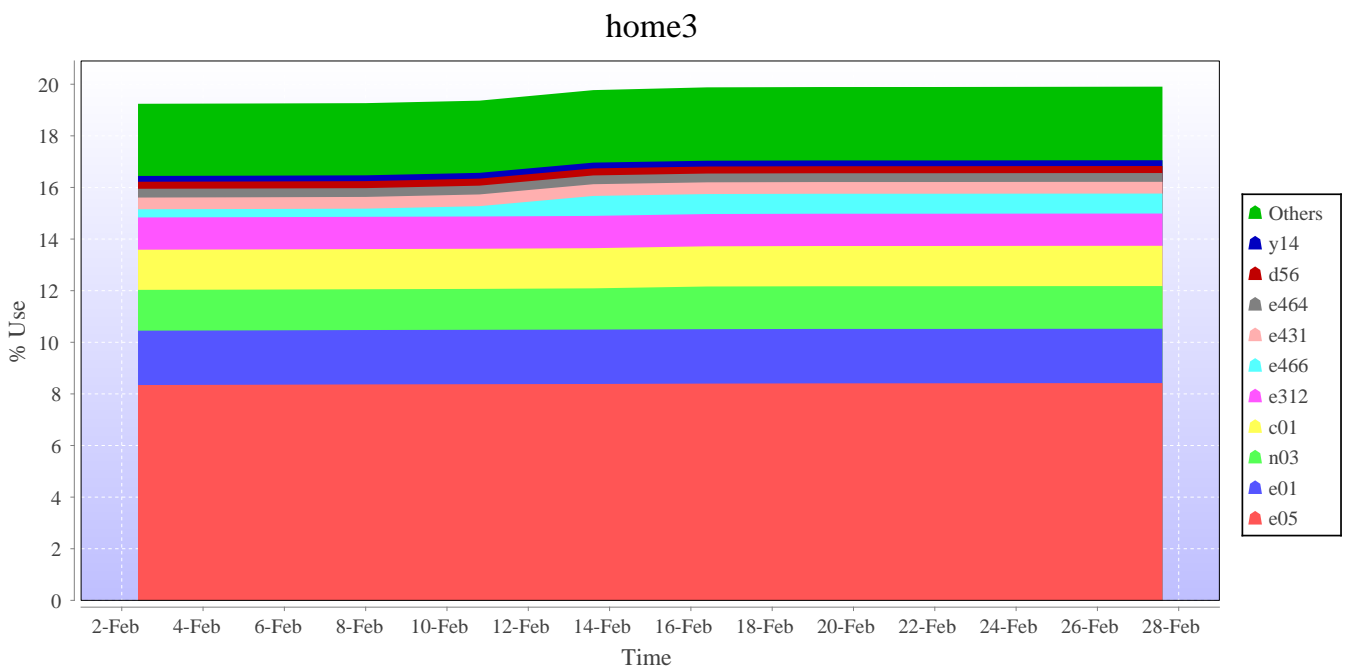
## Disk usage for home ( home2 )

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.

