

# Monthly Reporting

## Report from 01 October 2017 to 31 October 2017

### Report for Resource Pool XC on ARCHER

A total of 1,319,543.997 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.

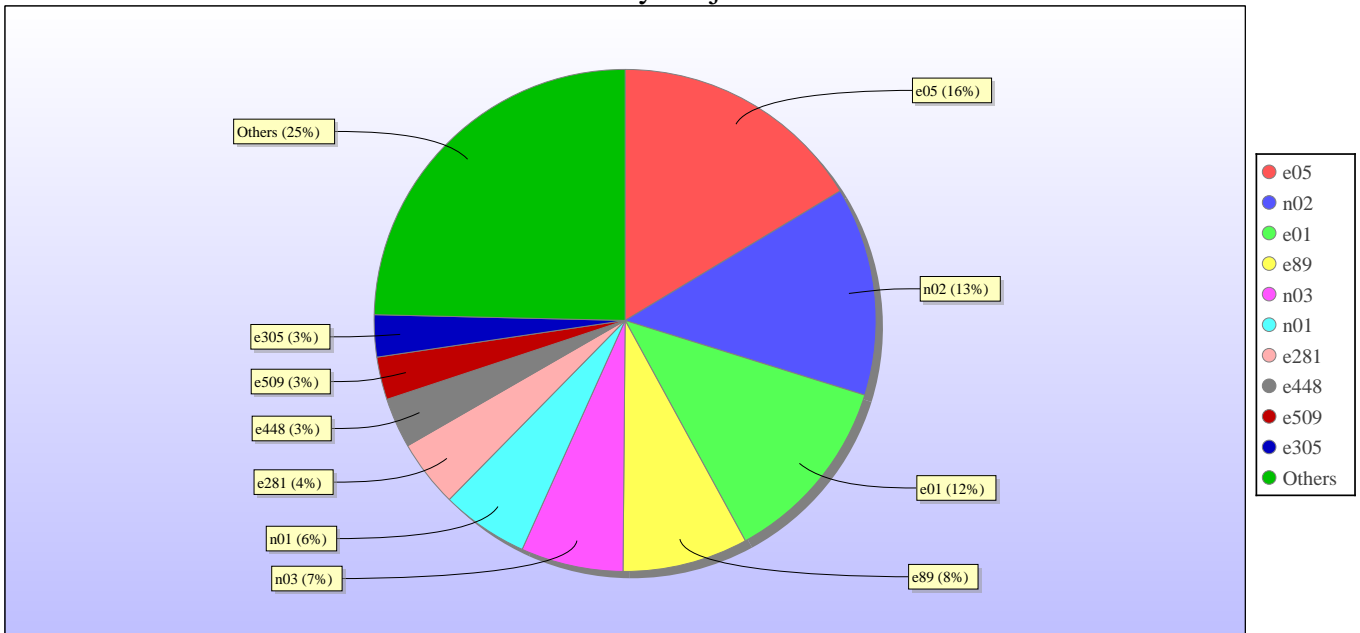
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e01	Consortia	1,569	153,550.6	11.64%	155,062.8	11.75%	77,702.5	5.89%
e05	Consortia	10,374	206,583.3	15.66%	207,362.8	15.71%	218,178.9	16.53%
e89	Consortia	3,496	102,366.2	7.76%	102,379.4	7.76%	121,803.5	9.23%
e280	Consortia	869	24,339.2	1.84%	24,617.8	1.87%	40,123.5	3.04%
e281	Consortia	2,920	54,782.9	4.15%	54,798.7	4.15%	21,404.4	1.62%
e283	Consortia	1,265	17,598.7	1.33%	17,599.5	1.33%	16,991.0	1.29%
e305	Consortia	2,073	34,239.3	2.59%	34,249.5	2.60%	22,122.1	1.68%
e529	Consortia	428	27,679.7	2.10%	27,681.0	2.10%	10,287.7	0.78%
e453	Leadership Awards	0	0.0	0.00%	0.0	0.00%	5,734.7	0.43%
e461	Leadership Awards	13	140.1	0.01%	140.1	0.01%	8,275.8	0.63%
e462	Leadership Awards	3	214.9	0.02%	214.9	0.02%	4,508.9	0.34%
e464	Leadership Awards	227	2,199.4	0.17%	2,199.4	0.17%	9,928.1	0.75%
e465	Leadership Awards	113	22,829.7	1.73%	22,829.7	1.73%	10,552.6	0.80%
e466	Leadership Awards	102	2,392.3	0.18%	2,392.3	0.18%	8,939.3	0.68%
e507	Leadership Awards	26	6,758.2	0.51%	6,793.4	0.51%	10,120.0	0.77%
e509	Leadership Awards	22	34,869.8	2.64%	34,870.1	2.64%	18,770.1	1.42%
e510	Leadership Awards	86	26,222.2	1.99%	26,222.2	1.99%	8,438.0	0.64%
e526	Leadership Awards	19	79.1	0.01%	79.1	0.01%	5,144.3	0.39%
n07	Leadership Awards	6	1,325.9	0.10%	1,325.9	0.10%	4,939.7	0.37%
n08	Leadership Awards	177	6,712.2	0.51%	6,712.7	0.51%	9,694.5	0.73%
c01	Class1a	565	949.6	0.07%	949.6	0.07%	6,484.1	0.49%
e229	Class1a	0	0.0	0.00%	0.0	0.00%	464.2	0.04%
e272	Class1a	4	6.3	0.00%	6.3	0.00%	0.0	0.00%
e291	Class1a	11	519.6	0.04%	519.6	0.04%	201.6	0.02%
e304	Class1a	226	11,480.1	0.87%	11,480.1	0.87%	5,269.5	0.40%
e332	Class1a	0	0.0	0.00%	0.0	0.00%	329.4	0.02%
e341	Class1a	251	6,168.4	0.47%	6,168.4	0.47%	6,060.9	0.46%
e358	Class1a	193	139.8	0.01%	139.8	0.01%	659.0	0.05%
e365	Class1a	124	1,361.8	0.10%	1,361.8	0.10%	4,809.0	0.36%
e375	Class1a	0	0.0	0.00%	0.0	0.00%	3,086.3	0.23%
e378	Class1a	0	0.0	0.00%	0.0	0.00%	4,939.9	0.37%
e403	Class1a	0	0.0	0.00%	0.0	0.00%	8,634.1	0.65%

Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e429	Class1a	30	303.2	0.02%	303.2	0.02%	1,037.1	0.08%
e431	Class1a	11	92.3	0.01%	92.3	0.01%	950.3	0.07%
e432	Class1a	31	747.2	0.06%	747.2	0.06%	4,478.9	0.34%
e446	Class1a	759	14,405.1	1.09%	14,405.1	1.09%	17,312.5	1.31%
e448	Class1a	1,686	40,859.6	3.10%	40,859.8	3.10%	33,613.5	2.55%
e451	Class1a	13	2,398.1	0.18%	2,398.1	0.18%	2,863.5	0.22%
e452	Class1a	7	1,945.3	0.15%	1,945.3	0.15%	515.4	0.04%
e475	Class1a	155	801.7	0.06%	801.7	0.06%	3,471.8	0.26%
e477	Class1a	9	175.3	0.01%	175.3	0.01%	4,317.3	0.33%
e480	Class1a	45	829.1	0.06%	829.1	0.06%	3,978.8	0.30%
e499	Class1a	3	0.7	0.00%	0.7	0.00%	10,996.6	0.83%
e513	Class1a	3	25.8	0.00%	25.8	0.00%	134.9	0.01%
e514	Class1a	0	0.0	0.00%	0.0	0.00%	171.5	0.01%
e515	Class1a	83	629.5	0.05%	629.5	0.05%	843.3	0.06%
e516	Class1a	446	12,570.0	0.95%	12,570.0	0.95%	12,606.0	0.96%
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%	511.7	0.04%
e519	Class1a	134	6,555.0	0.50%	6,555.0	0.50%	17,055.9	1.29%
e520	Class1a	7	2,491.6	0.19%	2,491.6	0.19%	2,530.0	0.19%
e523	Class1a	0	0.0	0.00%	0.0	0.00%	5,060.0	0.38%
e527	Class1a	42	1,438.3	0.11%	1,438.3	0.11%	1,180.7	0.09%
e530	Class1a	9	419.6	0.03%	419.6	0.03%	1,023.4	0.08%
e537	Class1a	49	1,110.3	0.08%	1,110.3	0.08%	5,331.2	0.40%
e558	Class1a	5	0.1	0.00%	0.1	0.00%	757.1	0.06%
e554	Class1b	0	0.0	0.00%	0.0	0.00%	84.3	0.01%
e348	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	3,675.8	0.28%
e484	Direct Access: ARCHER RAP	53	758.6	0.06%	758.6	0.06%	1,548.6	0.12%
e541	Direct Access: ARCHER RAP	6	1,819.2	0.14%	1,819.2	0.14%	2,718.7	0.21%
e542	Direct Access: ARCHER RAP	4	183.8	0.01%	183.8	0.01%	1,646.0	0.12%
e543	Direct Access: ARCHER RAP	21	2,655.9	0.20%	2,655.9	0.20%	2,145.6	0.16%
e545	Direct Access: ARCHER RAP	90	438.2	0.03%	438.2	0.03%	824.5	0.06%
e546	Direct Access: ARCHER RAP	57	3,854.8	0.29%	3,854.8	0.29%	2,477.4	0.19%
e547	Direct Access: ARCHER RAP	37	2,797.8	0.21%	2,797.8	0.21%	2,530.0	0.19%
e548	Direct Access: ARCHER RAP	123	707.3	0.05%	707.3	0.05%	2,351.3	0.18%
e549	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	1,666.6	0.13%
e550	Direct Access: ARCHER RAP	130	567.5	0.04%	567.5	0.04%	2,551.4	0.19%
e552	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	3,140.3	0.24%
e553	Direct Access: ARCHER RAP	115	211.3	0.02%	211.3	0.02%	3,107.1	0.24%
e534	Instant Access	6	69.8	0.01%	69.8	0.01%	59.0	0.00%
e535	Instant Access	0	0.0	0.00%	0.0	0.00%	59.0	0.00%
e536	Instant Access	0	0.0	0.00%	0.0	0.00%	202.4	0.02%
e544	Instant Access	0	0.0	0.00%	0.0	0.00%	195.0	0.01%
e555	Instant Access	37	117.1	0.01%	117.1	0.01%	192.0	0.01%
e557	Instant Access	0	0.0	0.00%	0.0	0.00%	8.5	0.00%
e559	Instant Access	0	0.0	0.00%	0.0	0.00%	201.3	0.02%
e560	Instant Access	11	6.3	0.00%	6.3	0.00%	151.9	0.01%
e561	Instant Access	0	0.0	0.00%	0.0	0.00%	98.2	0.01%
e508	Training	124	1,198.1	0.09%	1,198.1	0.09%	2,065.0	0.16%
e521	Training	14	191.8	0.01%	191.8	0.01%	1,766.6	0.13%
e538	Training	604	2,572.8	0.19%	2,574.1	0.20%	2,900.6	0.22%
e556	Training	1,130	7,572.0	0.57%	7,598.1	0.58%	2,294.5	0.17%

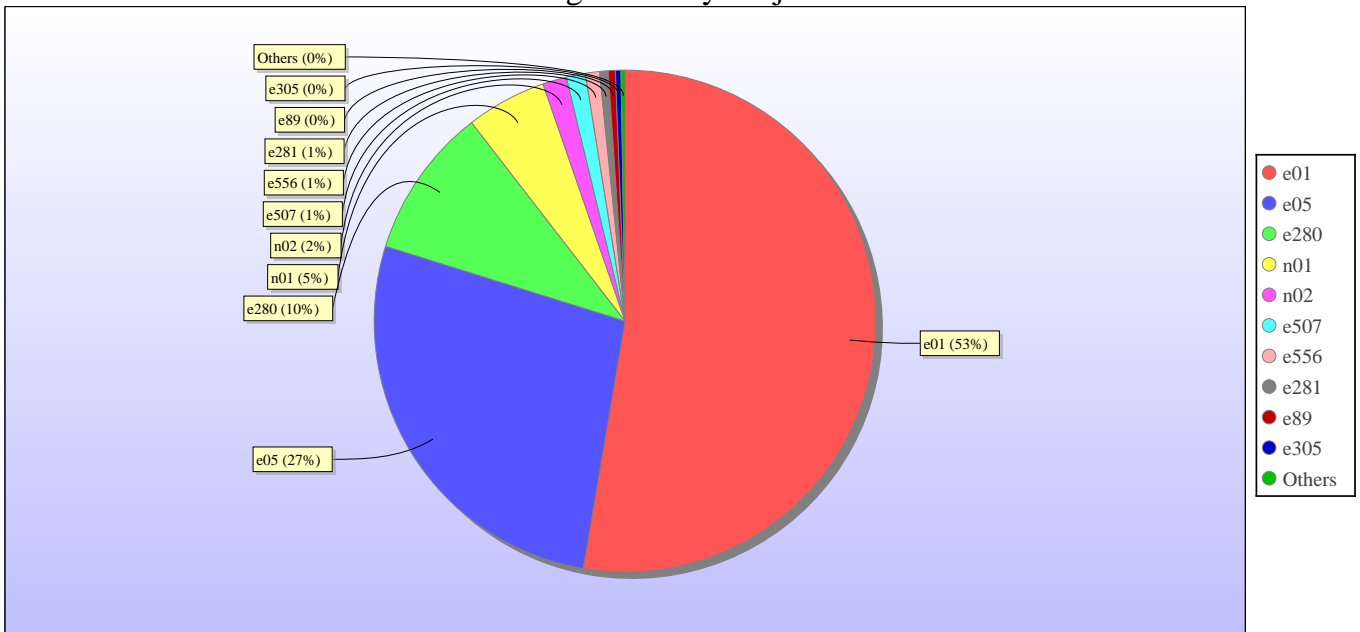
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
EPSRC Total		31,251	859,029.3	65.10%	861,704.5	65.30%	846,000.5	64.11%
n01	Consortia	3,543	71,574.3	5.42%	71,276.9	5.40%	51,027.4	3.87%
n02	Consortia	17,547	172,869.0	13.10%	170,191.6	12.90%	161,586.8	12.25%
n03	Consortia	2,383	83,517.2	6.33%	83,517.4	6.33%	65,740.3	4.98%
NERC Total		23,473	327,960.6	24.85%	324,985.9	24.63%	278,354.5	21.09%
pr1u1360	DECI: EXEC	218	7,456.6	0.57%	7,456.6	0.57%	3,496.1	0.26%
pr1u1362	DECI: EXEC	175	925.3	0.07%	925.3	0.07%	825.6	0.06%
pr1u1363	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	2,695.0	0.20%
pr1u1451	DECI: EXEC	97	5,184.7	0.39%	5,184.7	0.39%	5,661.1	0.43%
pr1u1452	DECI: EXEC	40	811.9	0.06%	811.9	0.06%	5,661.1	0.43%
pr1u1453	DECI: EXEC	6	1,016.3	0.08%	1,016.3	0.08%	14,152.8	1.07%
pr1u1454	DECI: EXEC	52	8,367.5	0.63%	8,367.5	0.63%	6,317.8	0.48%
pr1u1455	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	1,609.9	0.12%
pr1u1456	DECI: EXEC	9	181.0	0.01%	181.0	0.01%	5,340.8	0.40%
pr1u1457	DECI: EXEC	6	839.6	0.06%	839.6	0.06%	250.8	0.02%
pr1utd01	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	195.6	0.01%
pr1utd02	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	36.7	0.00%
pr1u1304	DECI: HOME	322	6,365.6	0.48%	6,365.6	0.48%	4,501.1	0.34%
pr1u1311	DECI: HOME	70	4.2	0.00%	4.2	0.00%	1,178.9	0.09%
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%	858.5	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		995	31,152.7	2.36%	31,152.7	2.36%	52,782.5	4.00%
ecse0103	eCSE	0	0.0	0.00%	0.0	0.00%	26.6	0.00%
ecse0716	eCSE	0	0.0	0.00%	0.0	0.00%	91.3	0.01%
ecse0803	eCSE	0	0.0	0.00%	0.0	0.00%	46.5	0.00%
ecse0804	eCSE	0	0.0	0.00%	0.0	0.00%	37.0	0.00%
ecse0807	eCSE	0	0.0	0.00%	0.0	0.00%	37.8	0.00%
ecse0809	eCSE	0	0.0	0.00%	0.0	0.00%	69.5	0.01%
ecse0814	eCSE	58	3,454.4	0.26%	3,454.4	0.26%	45.5	0.00%
ecse0815	eCSE	0	0.0	0.00%	0.0	0.00%	41.1	0.00%
ecse0820	eCSE	32	0.3	0.00%	0.3	0.00%	47.2	0.00%
ecse0904	eCSE	2	0.1	0.00%	0.1	0.00%	42.6	0.00%
ecse0910	eCSE	20	5.8	0.00%	5.8	0.00%	40.5	0.00%
ecse0919	eCSE	2	0.3	0.00%	0.3	0.00%	36.4	0.00%
ecse1109	eCSE	0	0.0	0.00%	0.0	0.00%	37.1	0.00%
eCSE Total		114	3,460.9	0.26%	3,460.9	0.26%	599.0	0.05%
d43	ECDF	0	0.0	0.00%	0.0	0.00%	5,953.2	0.45%
d25	Research	10	86.4	0.01%	86.4	0.01%	811.3	0.06%
d35	Research	117	205.2	0.02%	205.2	0.02%	425.2	0.03%
d56	Research	499	6,321.9	0.48%	6,321.9	0.48%	5,060.0	0.38%
d60	Research	0	0.0	0.00%	0.0	0.00%	204.2	0.02%
d67	Research	72	16.1	0.00%	16.1	0.00%	425.2	0.03%
d71	Research	0	0.0	0.00%	0.0	0.00%	578.8	0.04%
d88	Research	8	1.9	0.00%	1.9	0.00%	13.4	0.00%
d96	Research	53	8,138.2	0.62%	8,138.2	0.62%	1,700.9	0.13%
d100	Research	0	0.0	0.00%	0.0	0.00%	364.3	0.03%
d101	Research	22	39.8	0.00%	39.8	0.00%	425.2	0.03%
d107	Research	0	0.0	0.00%	0.0	0.00%	425.2	0.03%
d114	Research	295	4,757.5	0.36%	4,757.8	0.36%	10,053.7	0.76%
d118	Research	0	0.0	0.00%	0.0	0.00%	296.7	0.02%
d137	Research	6	3,802.1	0.29%	3,802.1	0.29%	2,551.4	0.19%
d141	Research	0	0.0	0.00%	0.0	0.00%	255.1	0.02%
d142	Research	21	4,431.9	0.34%	4,432.0	0.34%	5,903.3	0.45%

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d143	Research	261	8,202.8	0.62%	8,203.6	0.62%	4,216.7	0.32%
d145	Research	0	0.0	0.00%	0.0	0.00%	2,551.4	0.19%
d146	Research	9	2.6	0.00%	2.6	0.00%	527.9	0.04%
d149	Research	85	2,928.1	0.22%	2,928.1	0.22%	4,252.3	0.32%
d150	Research	43	1,925.8	0.15%	1,925.8	0.15%	9,782.7	0.74%
d132	Industrial	0	0.0	0.00%	0.0	0.00%	108.5	0.01%
d153	Industrial	246	431.9	0.03%	432.3	0.03%	1,254.4	0.10%
e540	Industrial	0	0.0	0.00%	0.0	0.00%	1,642.1	0.12%
i01	Industrial	0	0.0	0.00%	0.0	0.00%	79.4	0.01%
i22	Industrial	0	0.0	0.00%	0.0	0.00%	200.3	0.02%
i200	Industrial	3	0.3	0.00%	0.3	0.00%	225.8	0.02%
i219	Industrial	0	0.0	0.00%	0.0	0.00%	168.7	0.01%
x06	Industrial	0	0.0	0.00%	0.0	0.00%	2.7	0.00%
x08	Industrial	102	319.7	0.02%	319.7	0.02%	1,360.7	0.10%
d74	Training	0	0.0	0.00%	0.0	0.00%	55.3	0.00%
d133	Training	0	0.0	0.00%	0.0	0.00%	42.6	0.00%
d154	Training	75	30.3	0.00%	20.2	0.00%	169.2	0.01%
e482	Training	0	0.0	0.00%	0.0	0.00%	510.3	0.04%
d131	Service	30	7.4	0.00%	7.4	0.00%	852.8	0.06%
d134	Service	0	0.0	0.00%	0.0	0.00%	202.4	0.02%
y01	Service	0	0.0	0.00%	0.0	0.00%	8.5	0.00%
y02	Service	57	32.5	0.00%	33.4	0.00%	170.1	0.01%
y07	Service	10	0.0	0.00%	0.0	0.00%	85.0	0.01%
z02	Service	3	0.1	0.00%	0.1	0.00%	297.7	0.02%
z17	Service	24	734.4	0.06%	734.4	0.06%	843.3	0.06%
z99	Service	26	0.1	0.00%	0.1	0.00%	8.5	0.00%
d84	UoE Seedcorn	0	0.0	0.00%	0.0	0.00%	425.2	0.03%
d148	UoE Seedcorn	0	0.0	0.00%	0.0	0.00%	59.0	0.00%
DirectorsTime Total		2,077	42,417.0	3.21%	42,409.4	3.21%	65,550.5	4.97%
y14	Training	0	0.0	0.00%	0.0	0.00%	595.3	0.05%
y21	Service	0	0.0	0.00%	0.0	0.00%	78.4	0.01%
z01	Service	0	0.0	0.00%	0.0	0.00%	42.5	0.00%
z19	Service	590	485.3	0.04%	486.0	0.04%	5,528.0	0.42%
CSE Total		590	485.3	0.04%	486.0	0.04%	6,244.2	0.47%
i18	Industrial	26	2,381.1	0.18%	2,381.1	0.18%	1,608.7	0.12%
i20	Industrial	0	0.0	0.00%	0.0	0.00%	102.4	0.01%
i21	Industrial	0	0.0	0.00%	0.0	0.00%	290.0	0.02%
Industrial Total		26	2,381.1	0.18%	2,381.1	0.18%	2,001.1	0.15%
w03	Service	0	0.0	0.00%	0.0	0.00%	97.1	0.01%
Internal Total		0	0.0	0.00%	0.0	0.00%	97.1	0.01%
Total		58,526	1,266,887.0	96.01%	1,266,580.5	95.99%	1,251,629.5	94.85%

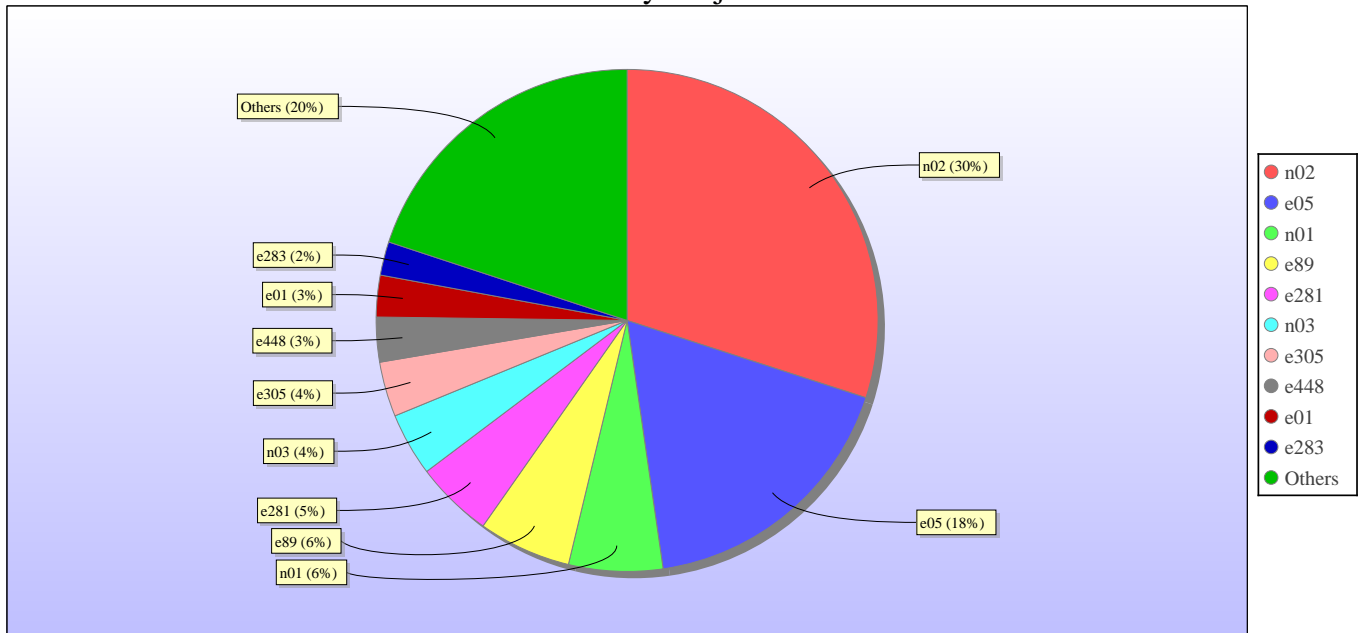
Use by Project



Uncharged Use by Project



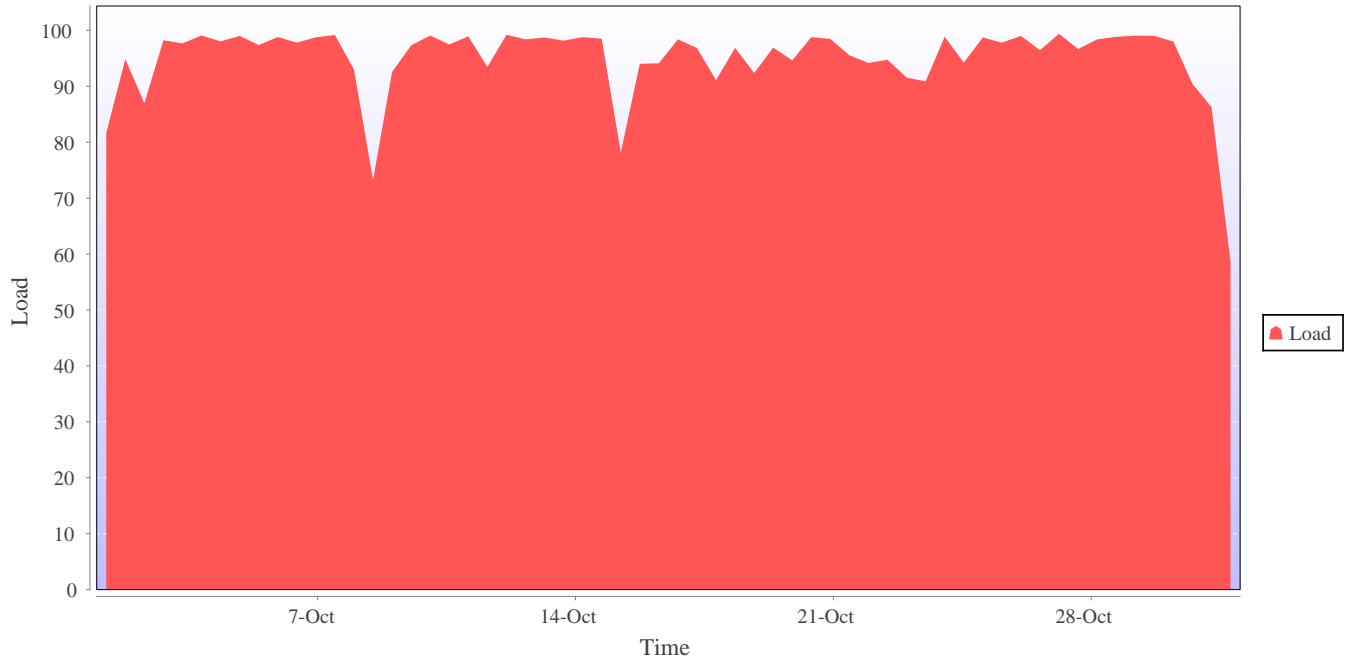
### Jobs by Project



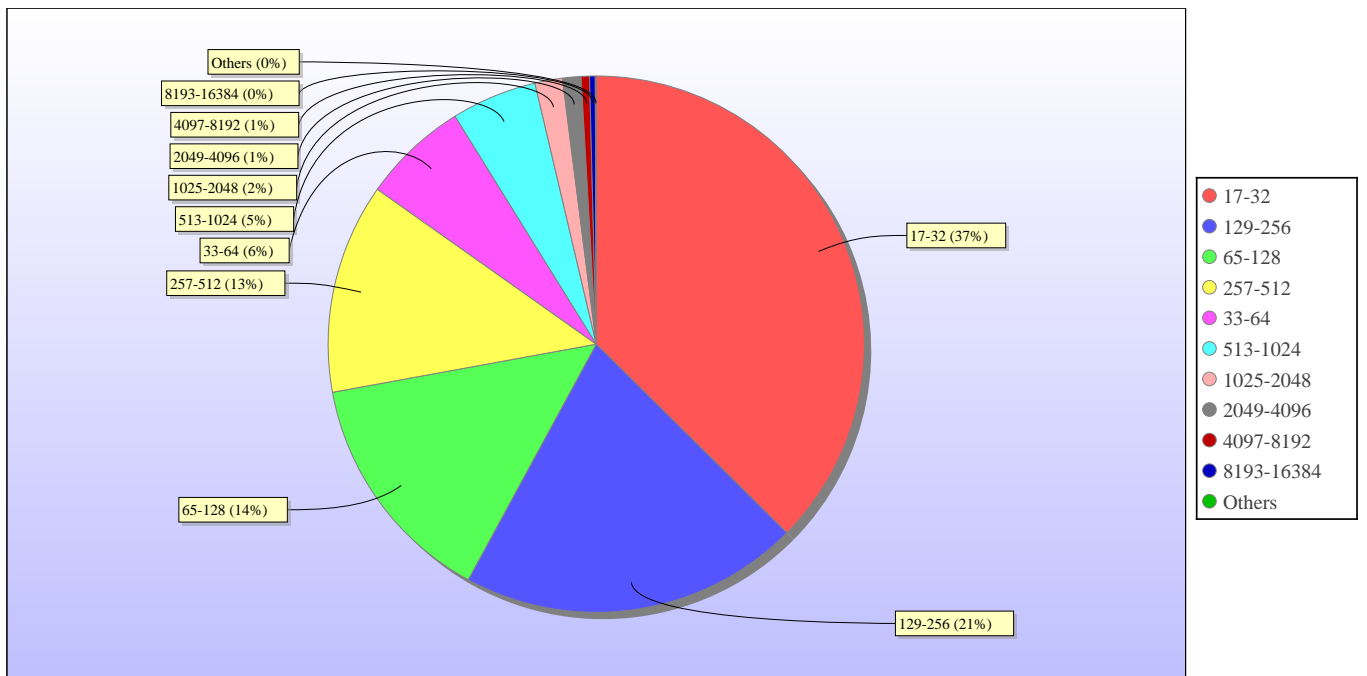
### kAUs (by Size)

Size	kAUs	Number of Jobs
17-32	17,664.838	21,896
33-64	10,401.6	3,727
65-128	75,356.273	8,312
129-256	172,908.615	11,999
257-512	189,397.622	7,417
513-1024	197,498.252	3,015
1025-2048	137,072.645	972
2049-4096	166,623.034	651
4097-8192	125,453.493	294
8193-16384	107,343.724	200
16385-32768	46,691.748	30
32769-65536	10,942.31	5

## Load plots

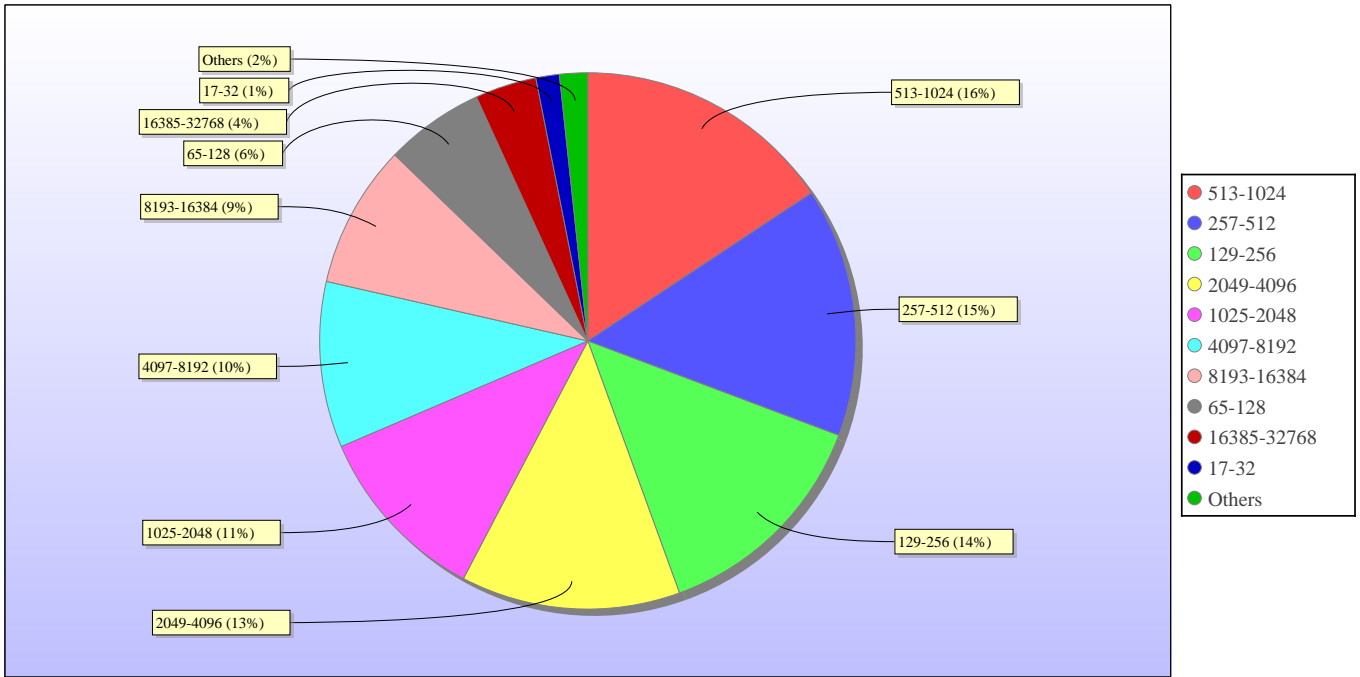


Percentage load on machine

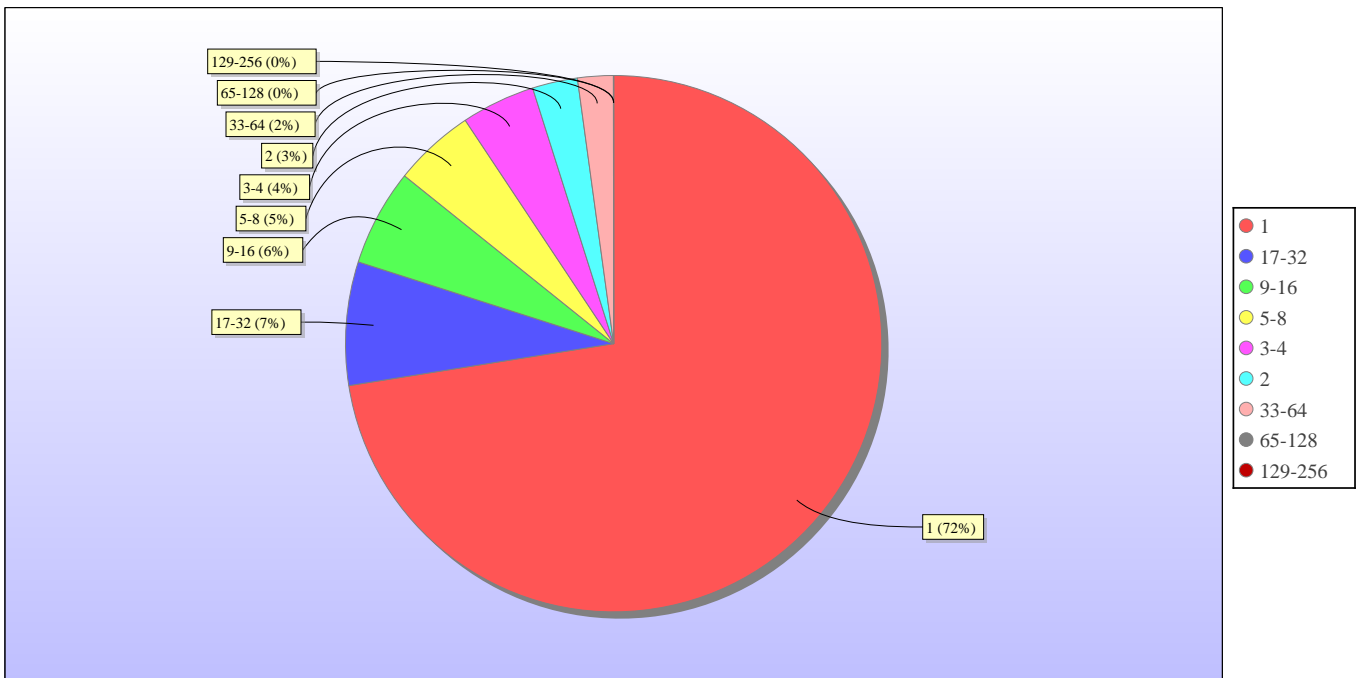


Jobs by Size

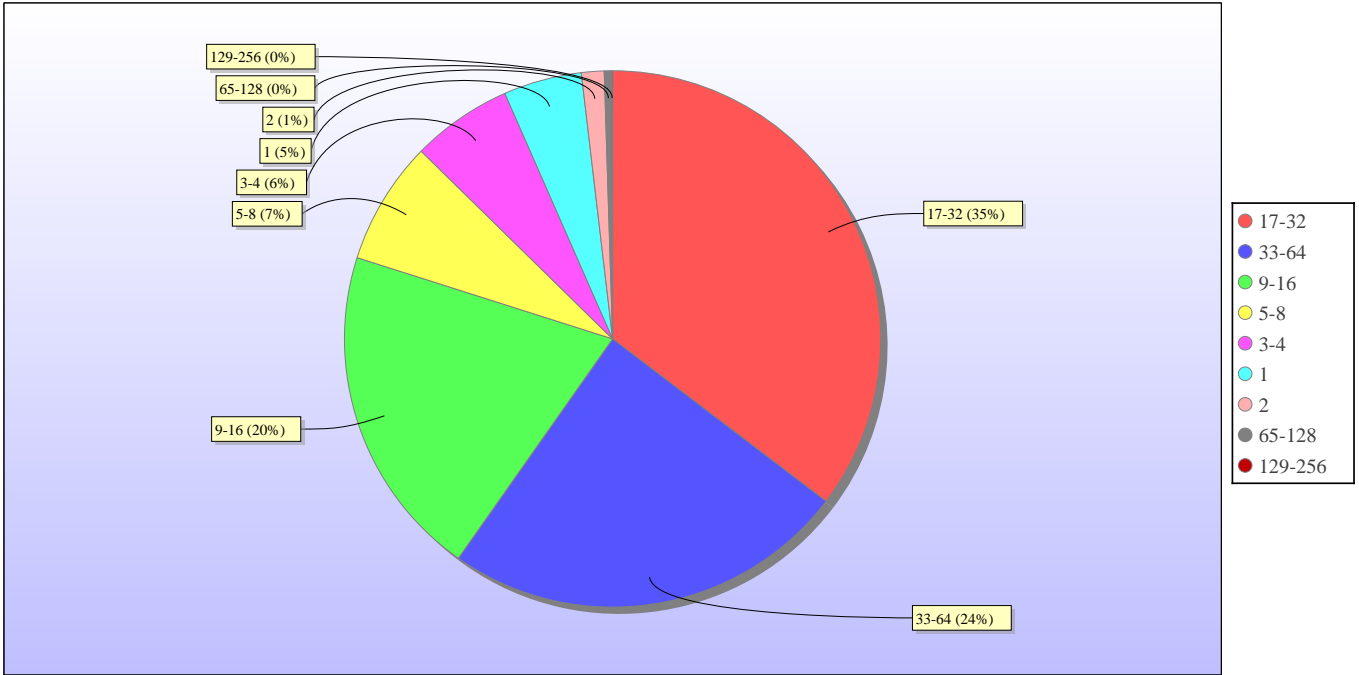




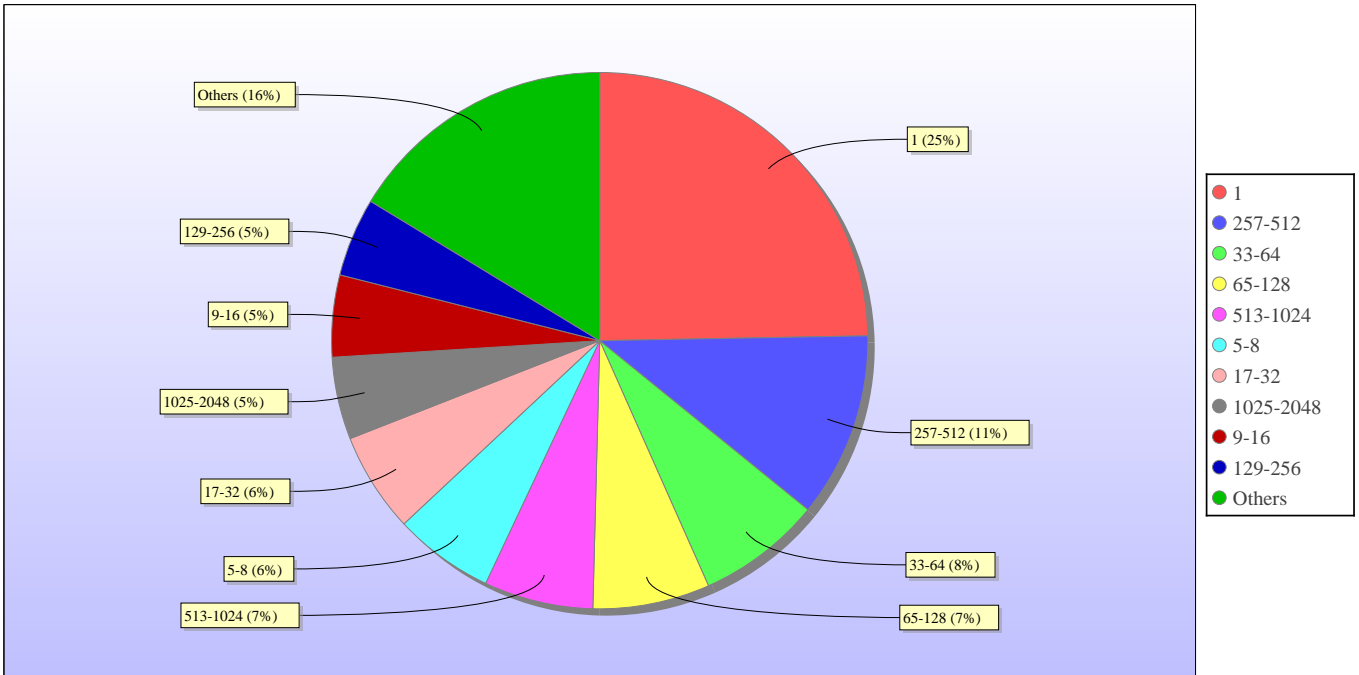
kAUs used by Size



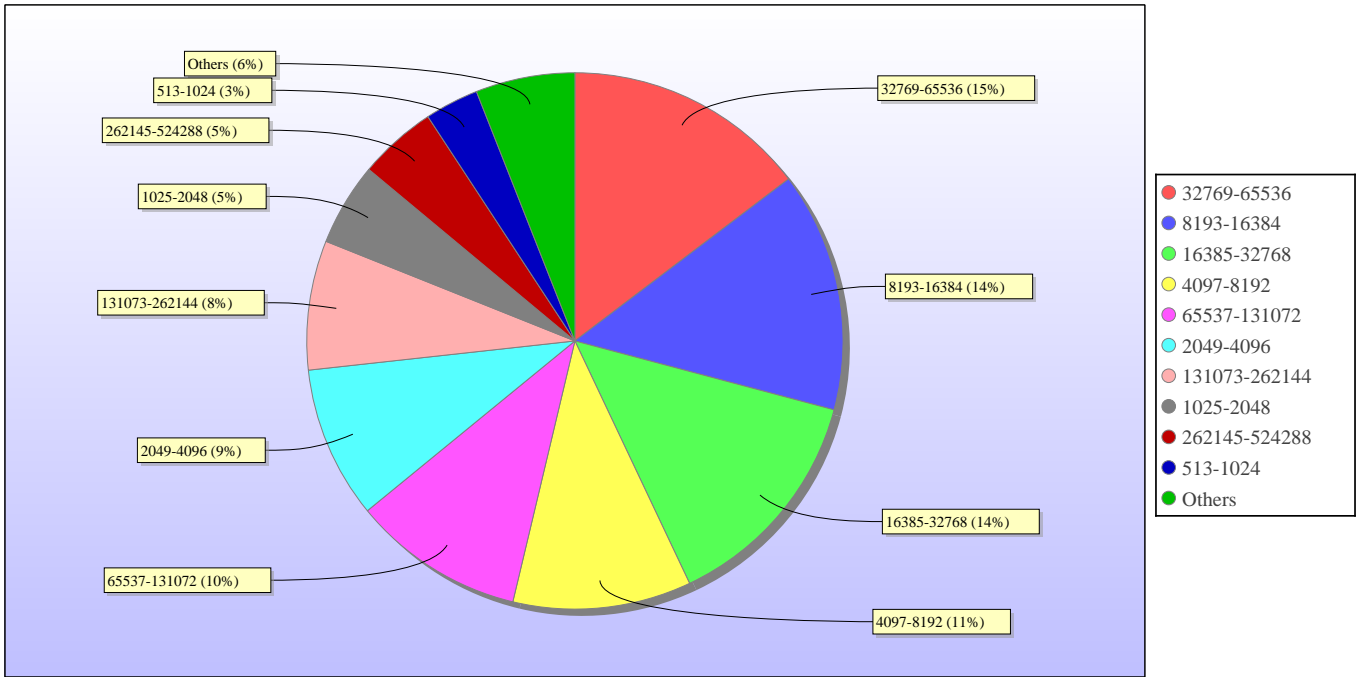
Jobs grouped by wall-clock-hours



kAUs used grouped by wall-clock-hours



Jobs grouped by core-hours

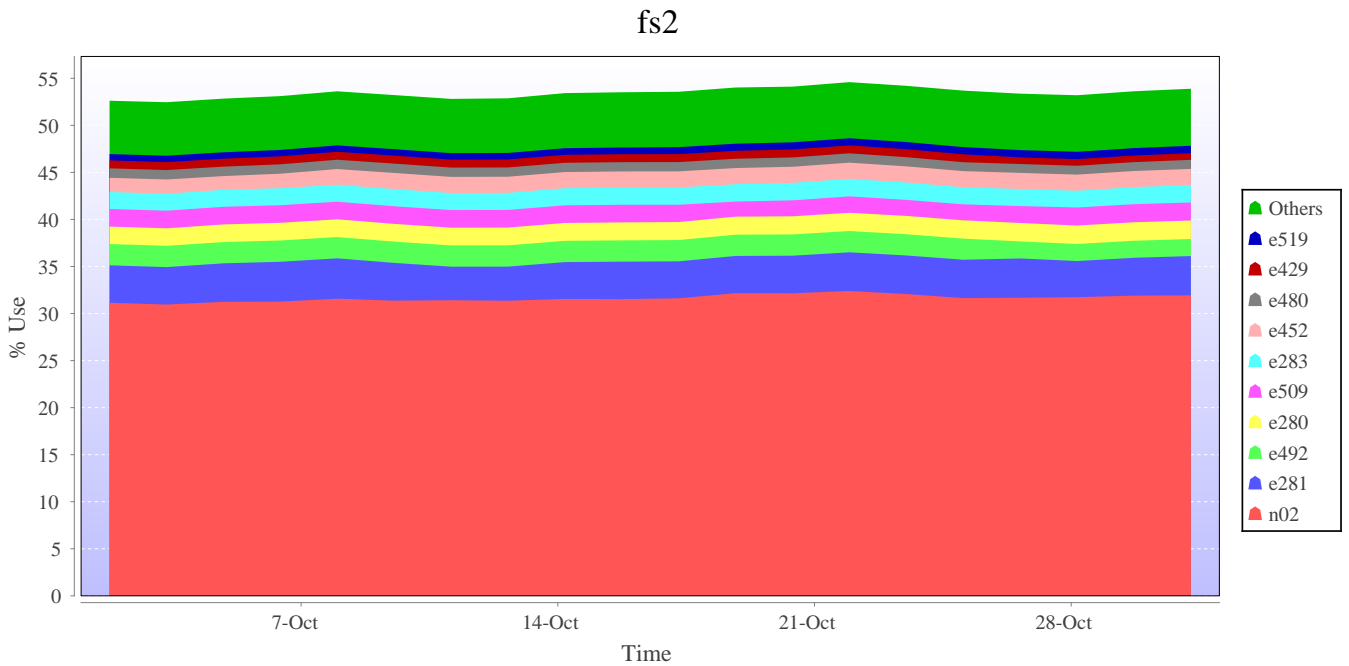


kAUs used grouped by core-hours

# Disk usage

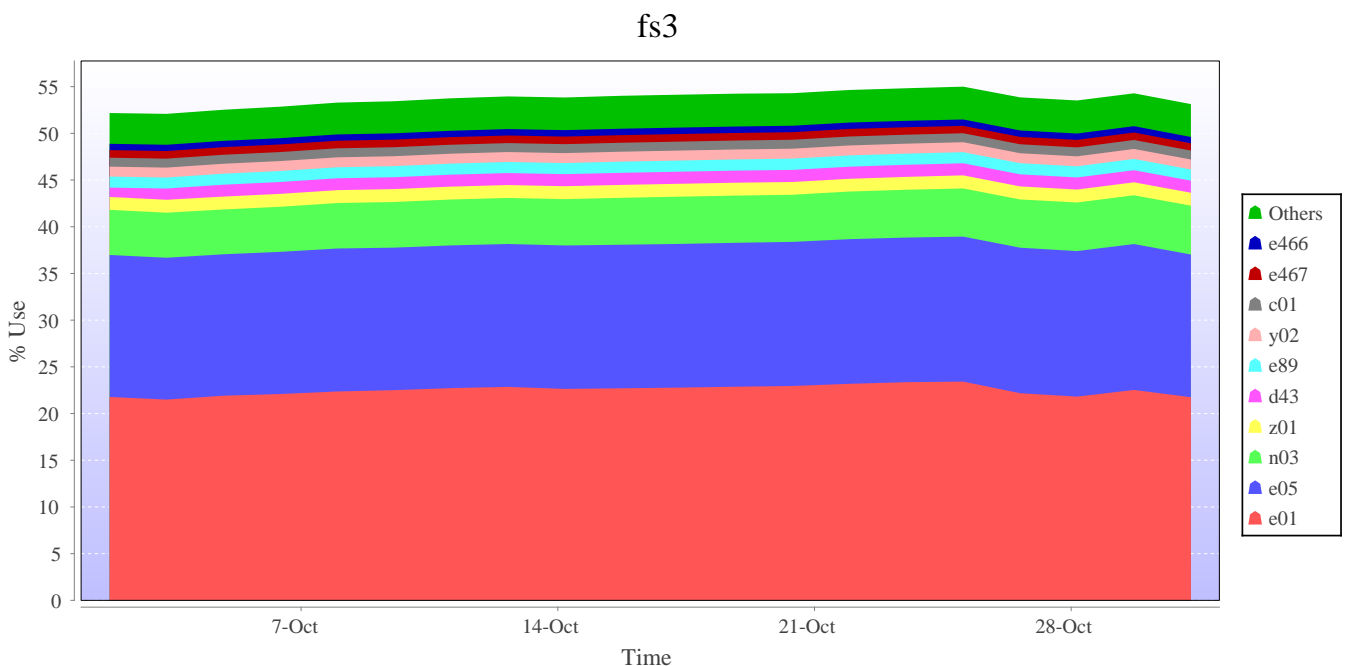
## Disk usage for work ( fs2 )

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.



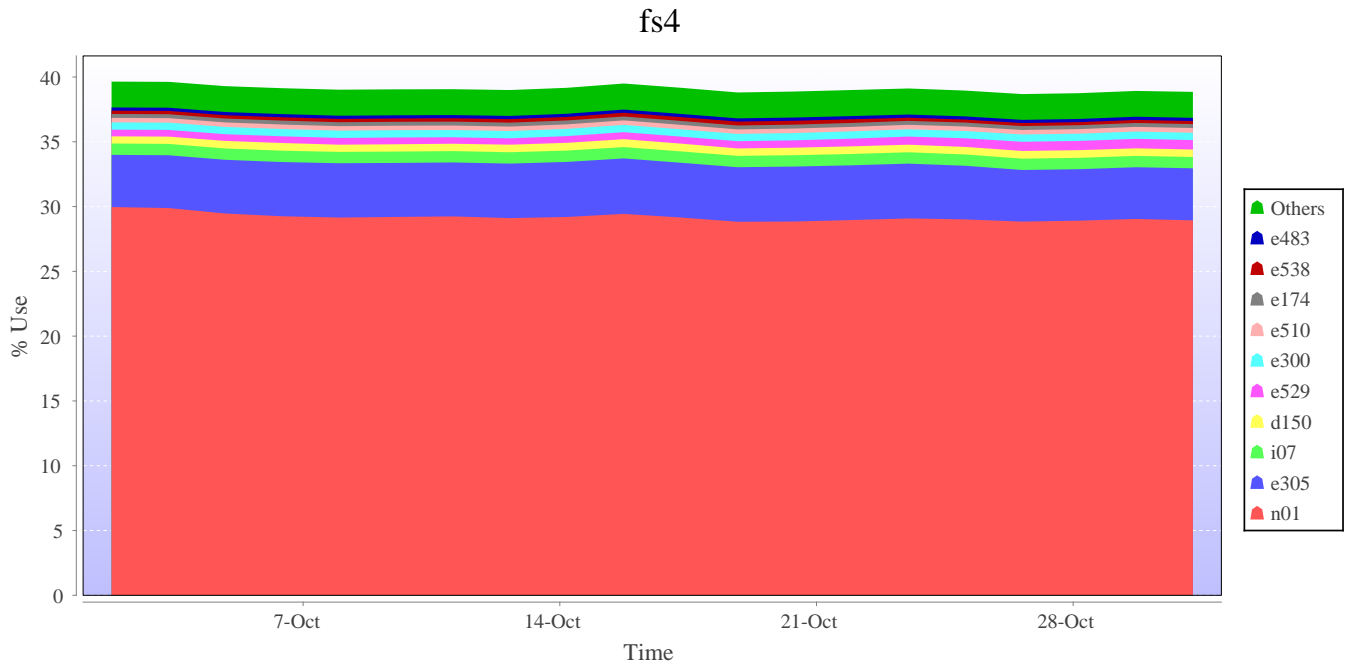
## Disk usage for work ( fs3 )

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.



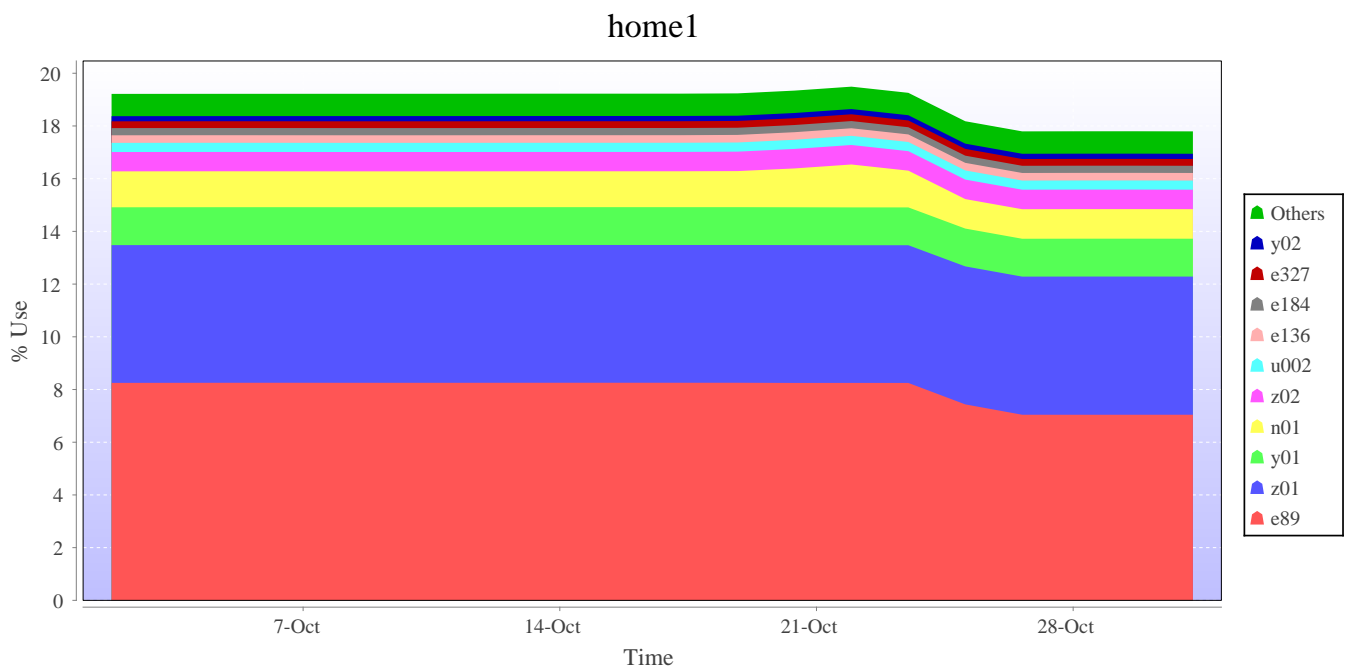
## Disk usage for work ( fs4 )

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.



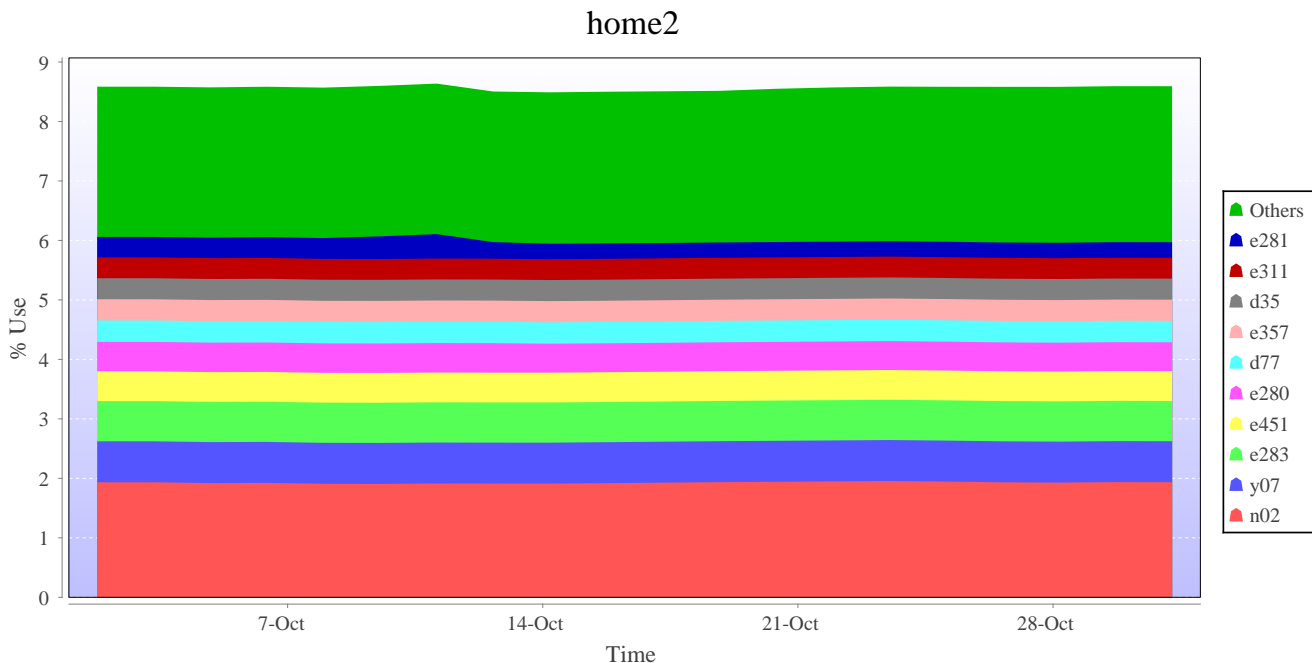
## Disk usage for home ( home1 )

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.



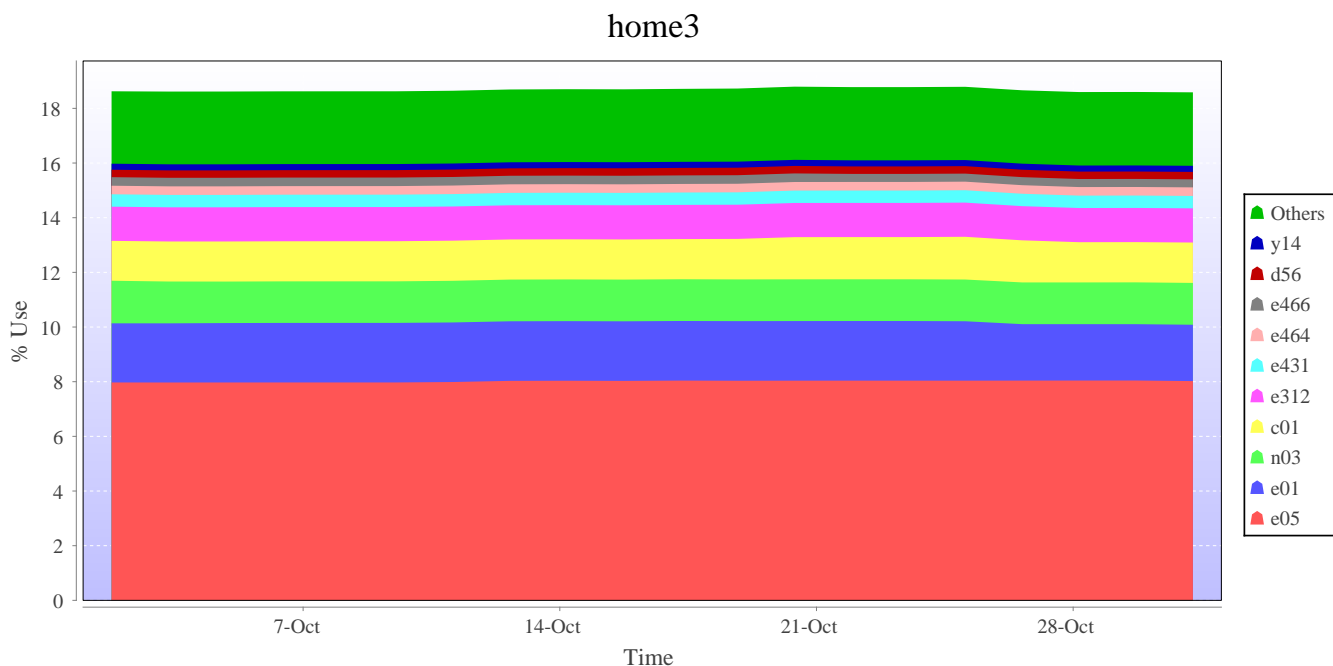
## Disk usage for home ( home2 )

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.

