

Monthly Reporting

Report from 01 July 2018 to 31 July 2018

Report for Resource Pool XC on ARCHER

A total of 1,317,772.797 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.

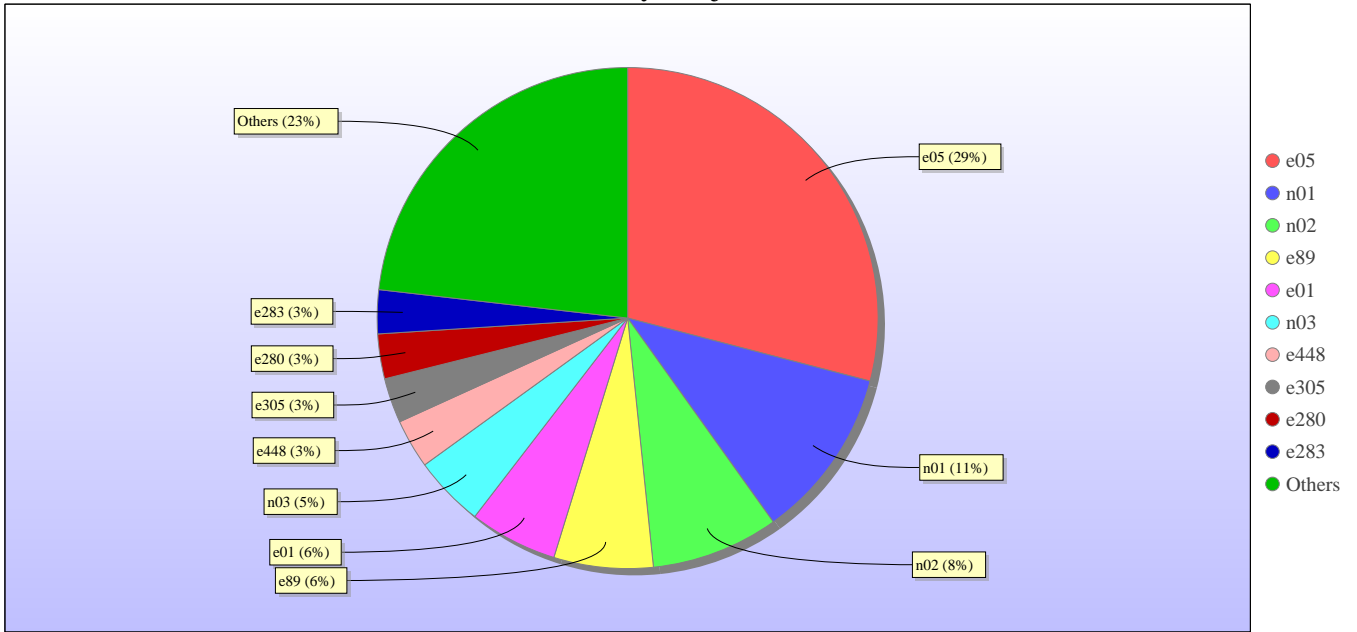
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e01	Consortia	877	57,696.5	4.38%	59,034.8	4.48%	85,534.6	6.49%
e05	Consortia	13,971	246,917.3	18.74%	301,616.3	22.89%	234,158.3	17.77%
e89	Consortia	3,264	64,931.5	4.93%	66,495.4	5.05%	107,316.4	8.14%
e280	Consortia	549	30,016.4	2.28%	30,016.4	2.28%	42,315.6	3.21%
e281	Consortia	730	11,745.7	0.89%	11,747.3	0.89%	23,572.1	1.79%
e283	Consortia	874	29,324.0	2.23%	29,324.0	2.23%	14,136.7	1.07%
e305	Consortia	812	30,015.7	2.28%	30,017.2	2.28%	24,404.6	1.85%
e529	Consortia	6	762.9	0.06%	762.9	0.06%	5,117.2	0.39%
e585	Consortia	769	2,378.4	0.18%	2,378.4	0.18%	16,939.9	1.29%
e462	Leadership Awards	841	10,930.5	0.83%	10,956.6	0.83%	6,940.6	0.53%
e464	Leadership Awards	74	141.6	0.01%	141.6	0.01%	5,087.7	0.39%
e507	Leadership Awards	269	6,857.8	0.52%	6,857.8	0.52%	8,457.9	0.64%
e510	Leadership Awards	10	1,382.8	0.10%	1,382.8	0.10%	8,422.0	0.64%
e526	Leadership Awards	85	23,079.9	1.75%	23,079.9	1.75%	8,565.5	0.65%
e572	Leadership Awards	818	1,799.8	0.14%	1,799.8	0.14%	2,540.4	0.19%
c01	Class1a	1,863	3,644.6	0.28%	3,644.6	0.28%	6,337.9	0.48%
e291	Class1a	0	0.0	0.00%	0.0	0.00%	164.9	0.01%
e332	Class1a	50	575.4	0.04%	575.4	0.04%	283.9	0.02%
e341	Class1a	5	9.1	0.00%	9.1	0.00%	4,211.0	0.32%
e365	Class1a	69	2,714.6	0.21%	2,714.6	0.21%	2,377.5	0.18%
e375	Class1a	20	2,249.7	0.17%	2,249.7	0.17%	1,416.2	0.11%
e403	Class1a	0	0.0	0.00%	0.0	0.00%	8,622.5	0.65%
e429	Class1a	0	0.0	0.00%	0.0	0.00%	747.6	0.06%
e431	Class1a	325	249.7	0.02%	249.7	0.02%	949.1	0.07%
e432	Class1a	190	10,185.0	0.77%	10,185.0	0.77%	9,781.3	0.74%
e448	Class1a	1,172	32,930.2	2.50%	32,930.2	2.50%	31,691.0	2.40%
e480	Class1a	9	1,207.2	0.09%	1,207.2	0.09%	1,360.9	0.10%
e514	Class1a	0	0.0	0.00%	0.0	0.00%	480.1	0.04%
e515	Class1a	480	2,725.8	0.21%	2,725.9	0.21%	2,879.0	0.22%
e516	Class1a	401	18,444.6	1.40%	18,444.6	1.40%	6,548.5	0.50%
e517	Class1a	0	0.0	0.00%	0.0	0.00%	134.8	0.01%
e518	Class1a	16	212.4	0.02%	212.4	0.02%	847.0	0.06%
e519	Class1a	119	8,716.9	0.66%	8,717.0	0.66%	16,939.9	1.29%
e520	Class1a	2	31.8	0.00%	31.8	0.00%	4,246.0	0.32%
e523	Class1a	103	11,273.5	0.86%	11,273.5	0.86%	8,422.0	0.64%
e527	Class1a	0	0.0	0.00%	0.0	0.00%	1,884.4	0.14%

Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e530	Class1a	21	648.5	0.05%	648.5	0.05%	1,016.4	0.08%
e537	Class1a	0	0.0	0.00%	0.0	0.00%	3,720.0	0.28%
e558	Class1a	11	139.0	0.01%	139.0	0.01%	756.1	0.06%
e569	Class1a	37	2,199.7	0.17%	2,199.7	0.17%	1,956.8	0.15%
e571	Class1a	0	0.0	0.00%	0.0	0.00%	169.4	0.01%
e575	Class1a	143	2,340.5	0.18%	2,340.5	0.18%	1,323.9	0.10%
e580	Class1a	0	0.0	0.00%	0.0	0.00%	2,511.0	0.19%
e584	Class1a	0	0.0	0.00%	0.0	0.00%	1,370.4	0.10%
e588	Class1a	29	1,059.2	0.08%	1,059.2	0.08%	2,201.7	0.17%
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%	171.3	0.01%
e348	Direct Access: ARCHER RAP	79	1,554.8	0.12%	1,554.8	0.12%	5,270.5	0.40%
e484	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	1,885.3	0.14%
e541	Direct Access: ARCHER RAP	188	7,833.7	0.59%	7,833.7	0.59%	2,715.1	0.21%
e542	Direct Access: ARCHER RAP	39	815.7	0.06%	815.7	0.06%	477.2	0.04%
e543	Direct Access: ARCHER RAP	7	1,700.2	0.13%	1,700.2	0.13%	622.1	0.05%
e545	Direct Access: ARCHER RAP	232	4,277.1	0.32%	4,277.1	0.32%	654.8	0.05%
e546	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	974.0	0.07%
e547	Direct Access: ARCHER RAP	11	175.3	0.01%	175.3	0.01%	1,469.0	0.11%
e548	Direct Access: ARCHER RAP	2	127.2	0.01%	127.2	0.01%	909.0	0.07%
e549	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	644.3	0.05%
e550	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	2,137.0	0.16%
e552	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	1,516.9	0.12%
e553	Direct Access: ARCHER RAP	166	16,783.6	1.27%	16,783.6	1.27%	3,102.9	0.24%
e564	Direct Access: ARCHER RAP	18	3,451.9	0.26%	3,451.9	0.26%	4,540.6	0.34%
e565	Direct Access: ARCHER RAP	1,027	1,097.2	0.08%	1,097.2	0.08%	4,884.8	0.37%
e566	Direct Access: ARCHER RAP	236	9,401.8	0.71%	9,401.9	0.71%	6,870.7	0.52%
e567	Direct Access: ARCHER RAP	48	879.4	0.07%	879.4	0.07%	5,123.9	0.39%
e590	Direct Access: ARCHER RAP	62	1,811.2	0.14%	1,811.2	0.14%	1,665.3	0.13%
e593	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	7,581.5	0.58%
e595	Direct Access: ARCHER RAP	31	1,203.2	0.09%	1,203.2	0.09%	3,371.4	0.26%
e596	Direct Access: ARCHER RAP	17	899.7	0.07%	899.7	0.07%	1,219.4	0.09%
e597	Direct Access: ARCHER RAP	5	83.9	0.01%	83.9	0.01%	10,114.1	0.77%
e599	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	1,098.8	0.08%
e574	Instant Access	0	0.0	0.00%	0.0	0.00%	99.5	0.01%
e576	Instant Access	124	368.4	0.03%	368.6	0.03%	125.5	0.01%
e577	Instant Access	2	0.0	0.00%	0.0	0.00%	33.9	0.00%
e578	Instant Access	4	0.3	0.00%	0.3	0.00%	205.6	0.02%
e581	Instant Access	4	95.4	0.01%	95.4	0.01%	207.3	0.02%
e582	Instant Access	19	5.7	0.00%	5.7	0.00%	202.2	0.02%
e583	Instant Access	15	40.8	0.00%	40.8	0.00%	201.2	0.02%

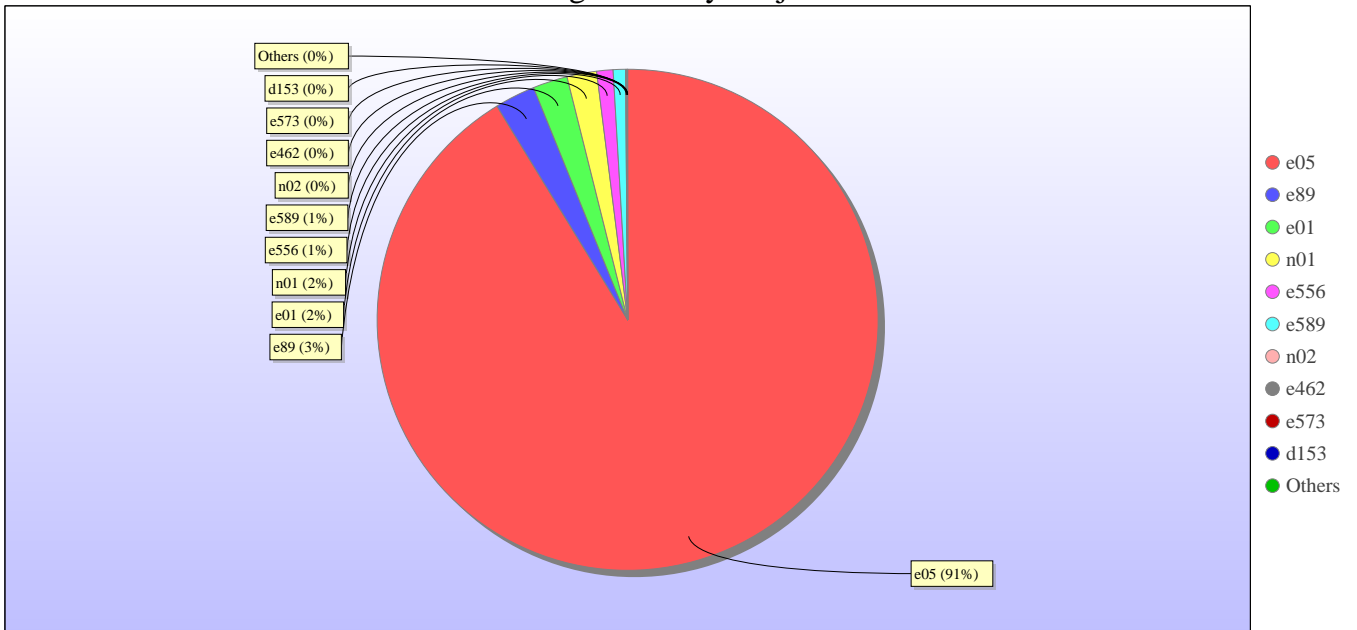
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e586	Instant Access	0	0.0	0.00%	0.0	0.00%	202.8	0.02%
e587	Instant Access	0	0.0	0.00%	0.0	0.00%	202.1	0.02%
e591	Instant Access	14	339.9	0.03%	339.9	0.03%	202.1	0.02%
e594	Instant Access	31	1,591.9	0.12%	1,591.9	0.12%	378.5	0.03%
e598	Instant Access	5	338.2	0.03%	338.2	0.03%	143.4	0.01%
e538	Training	42	183.4	0.01%	183.4	0.01%	2,896.7	0.22%
e556	Training	19	0.0	0.00%	632.2	0.05%	2,596.9	0.20%
e573	Training	200	1,434.1	0.11%	1,444.9	0.11%	1,917.7	0.15%
e589	Training	573	2,896.2	0.22%	3,369.5	0.26%	3,049.2	0.23%
z17	Service	0	0.0	0.00%	0.0	0.00%	1,763.6	0.13%
EPSRC Total		32,234	678,928.7	51.52%	737,675.6	55.98%	802,308.8	60.88%
n01	Consortia	3,680	115,945.9	8.80%	115,049.8	8.73%	107,013.7	8.12%
n02	Consortia	17,646	85,425.6	6.48%	85,460.3	6.49%	127,821.9	9.70%
n03	Consortia	2,899	47,640.0	3.62%	47,641.2	3.62%	90,027.4	6.83%
NERC Total		24,225	249,011.4	18.90%	248,151.3	18.83%	324,863.0	24.65%
e568	Research	138	4,797.3	0.36%	4,797.3	0.36%	3,870.7	0.29%
BBSRC Total		138	4,797.3	0.36%	4,797.3	0.36%	3,870.7	0.29%
pr1u0002	Class1a	0	0.0	0.00%	0.0	0.00%	101.9	0.01%
pr1u0001	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	0.4	0.00%
pr1u1452	DECI: EXEC	147	6,722.9	0.51%	6,722.9	0.51%	4,259.9	0.32%
pr1u1453	DECI: EXEC	58	839.1	0.06%	839.1	0.06%	8,557.1	0.65%
pr1u1455	DECI: EXEC	46	43.3	0.00%	43.3	0.00%	973.4	0.07%
pr1u1456	DECI: EXEC	2	1,224.2	0.09%	1,224.2	0.09%	0.0	0.00%
pr1u1457	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	250.5	0.02%
pr1utd01	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	136.8	0.01%
pr1utd02	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	188.5	0.01%
pr1u1364	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%	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%	0.1	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%	0.0	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		253	8,829.6	0.67%	8,829.6	0.67%	14,524.0	1.10%
ecse1001	Consortia	7	1.9	0.00%	1.9	0.00%	644.9	0.05%
ecse0919	eCSE	165	311.0	0.02%	311.0	0.02%	36.4	0.00%
ecse1002	eCSE	0	0.0	0.00%	0.0	0.00%	202.6	0.02%
ecse1012	eCSE	27	28.2	0.00%	28.2	0.00%	61.4	0.00%
ecse1101	eCSE	19	0.1	0.00%	0.1	0.00%	195.7	0.01%
ecse1109	eCSE	0	0.0	0.00%	0.0	0.00%	41.1	0.00%
ecse1112	eCSE	0	0.0	0.00%	0.0	0.00%	52.1	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%	56.5	0.00%
ecse1209	eCSE	157	48.2	0.00%	48.2	0.00%	89.2	0.01%
ecse1210	eCSE	0	0.0	0.00%	0.0	0.00%	742.1	0.06%
ecse1217	eCSE	0	0.0	0.00%	0.0	0.00%	17.3	0.00%
ecse1220	eCSE	0	0.0	0.00%	0.0	0.00%	39.5	0.00%
eCSE Total		375	389.4	0.03%	389.4	0.03%	2,200.7	0.17%
d43	ECDF	27	957.3	0.07%	957.3	0.07%	2,547.9	0.19%
d25	Research	0	0.0	0.00%	0.0	0.00%	424.7	0.03%
d35	Research	143	0.5	0.00%	0.5	0.00%	424.7	0.03%
d56	Research	43	283.8	0.02%	283.8	0.02%	6,737.6	0.51%
d60	Research	0	0.0	0.00%	0.0	0.00%	84.9	0.01%
d67	Research	68	7.2	0.00%	7.2	0.00%	297.3	0.02%
d71	Research	0	0.0	0.00%	0.0	0.00%	1,104.1	0.08%
d87	Research	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
d88	Research	11	0.5	0.00%	0.5	0.00%	13.4	0.00%
d100	Research	39	241.6	0.02%	241.6	0.02%	474.0	0.04%
d101	Research	146	540.6	0.04%	540.6	0.04%	552.1	0.04%

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d107	Research	659	1,307.5	0.10%	1,275.1	0.10%	424.7	0.03%
d114	Research	580	9,398.0	0.71%	9,398.1	0.71%	9,026.5	0.68%
d118	Research	0	0.0	0.00%	0.0	0.00%	105.4	0.01%
d137	Research	154	2,561.2	0.19%	2,561.2	0.19%	2,547.9	0.19%
d142	Research	36	2,374.4	0.18%	2,374.4	0.18%	4,246.6	0.32%
d143	Research	82	1,648.4	0.13%	1,648.4	0.13%	5,065.4	0.38%
d145	Research	0	0.0	0.00%	0.0	0.00%	254.8	0.02%
d149	Research	1	0.0	0.00%	0.0	0.00%	635.1	0.05%
d150	Research	62	3,816.2	0.29%	3,816.2	0.29%	8,085.1	0.61%
d155	Research	345	1,514.1	0.11%	1,514.1	0.11%	2,717.8	0.21%
d166	Research	299	4,882.4	0.37%	4,882.4	0.37%	2,030.2	0.15%
d421	Research	0	0.0	0.00%	0.0	0.00%	1,642.3	0.12%
d153	Industrial	6,088	2,185.4	0.17%	2,189.5	0.17%	1,252.8	0.10%
d156	Industrial	0	0.0	0.00%	0.0	0.00%	85.6	0.01%
d165	Industrial	0	0.0	0.00%	0.0	0.00%	42.5	0.00%
i18	Industrial	65	3,565.8	0.27%	3,565.8	0.27%	2,932.7	0.22%
i20	Industrial	9	0.0	0.00%	0.2	0.00%	102.3	0.01%
i200	Industrial	0	0.0	0.00%	0.0	0.00%	42.5	0.00%
i219	Industrial	0	0.0	0.00%	0.0	0.00%	42.5	0.00%
i225	Industrial	0	0.0	0.00%	0.0	0.00%	84.9	0.01%
i228	Industrial	0	0.0	0.00%	0.0	0.00%	70.0	0.01%
x08	Industrial	0	0.0	0.00%	0.0	0.00%	1,367.9	0.10%
d74	Training	0	0.0	0.00%	0.0	0.00%	169.9	0.01%
d104	Training	0	0.0	0.00%	0.0	0.00%	795.0	0.06%
d133	Training	27	11.7	0.00%	11.7	0.00%	42.5	0.00%
d154	Training	557	82.5	0.01%	82.5	0.01%	337.9	0.03%
d131	Service	92	1,659.7	0.13%	1,660.0	0.13%	911.9	0.07%
d134	Service	18	0.5	0.00%	0.5	0.00%	42.5	0.00%
d425	Service	0	0.0	0.00%	0.0	0.00%	0.4	0.00%
w16	Service	16	6.3	0.00%	6.3	0.00%	505.3	0.04%
y01	Service	0	0.0	0.00%	0.0	0.00%	8.5	0.00%
y02	Service	6	0.0	0.00%	0.0	0.00%	84.9	0.01%
y07	Service	38	0.0	0.00%	0.6	0.00%	8.5	0.00%
z02	Service	6	0.0	0.00%	0.0	0.00%	42.5	0.00%
z99	Service	27	0.2	0.00%	0.2	0.00%	8.5	0.00%
d84	UoE Seedcorn	0	0.0	0.00%	0.0	0.00%	84.9	0.01%
e579	UoE Supercomputing	0	0.0	0.00%	0.0	0.00%	95.6	0.01%
DirectorsTime Total		9,644	37,045.9	2.81%	37,018.7	2.81%	58,604.7	4.45%
y14	Training	3,561	2,064.1	0.16%	1,383.7	0.11%	594.5	0.05%
y21	Service	0	0.0	0.00%	0.0	0.00%	424.7	0.03%
z19	Service	449	107.8	0.01%	107.8	0.01%	5,520.5	0.42%
CSE Total		4,010	2,171.8	0.16%	1,491.5	0.11%	6,539.7	0.50%
Total		70,879	981,174.1	74.46%	1,038,353.4	78.80%	1,212,911.7	92.04%

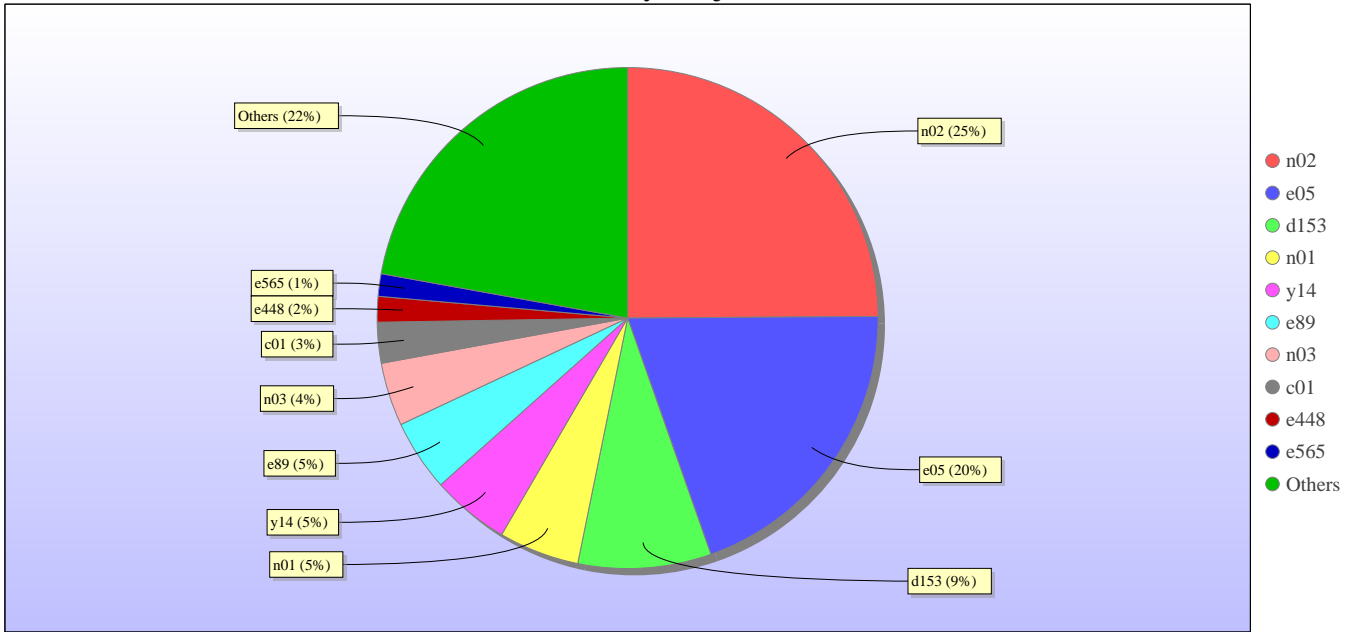
Use by Project



Uncharged Use by Project



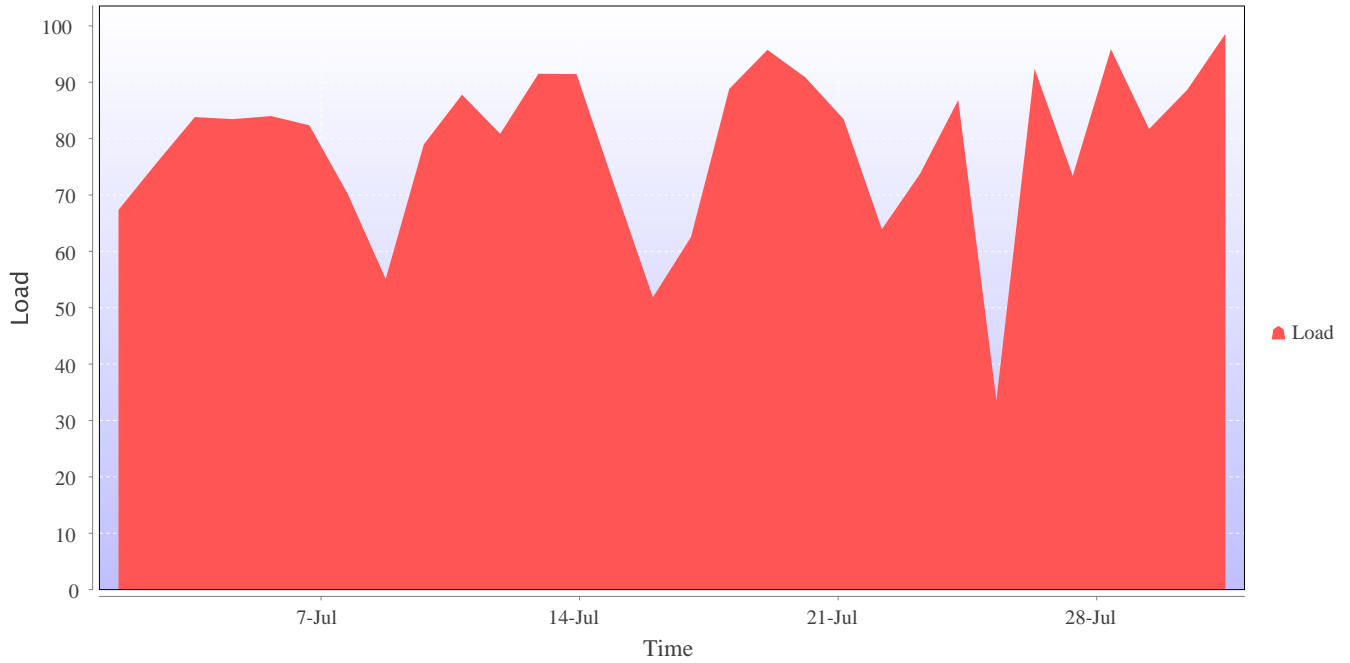
Jobs by Project



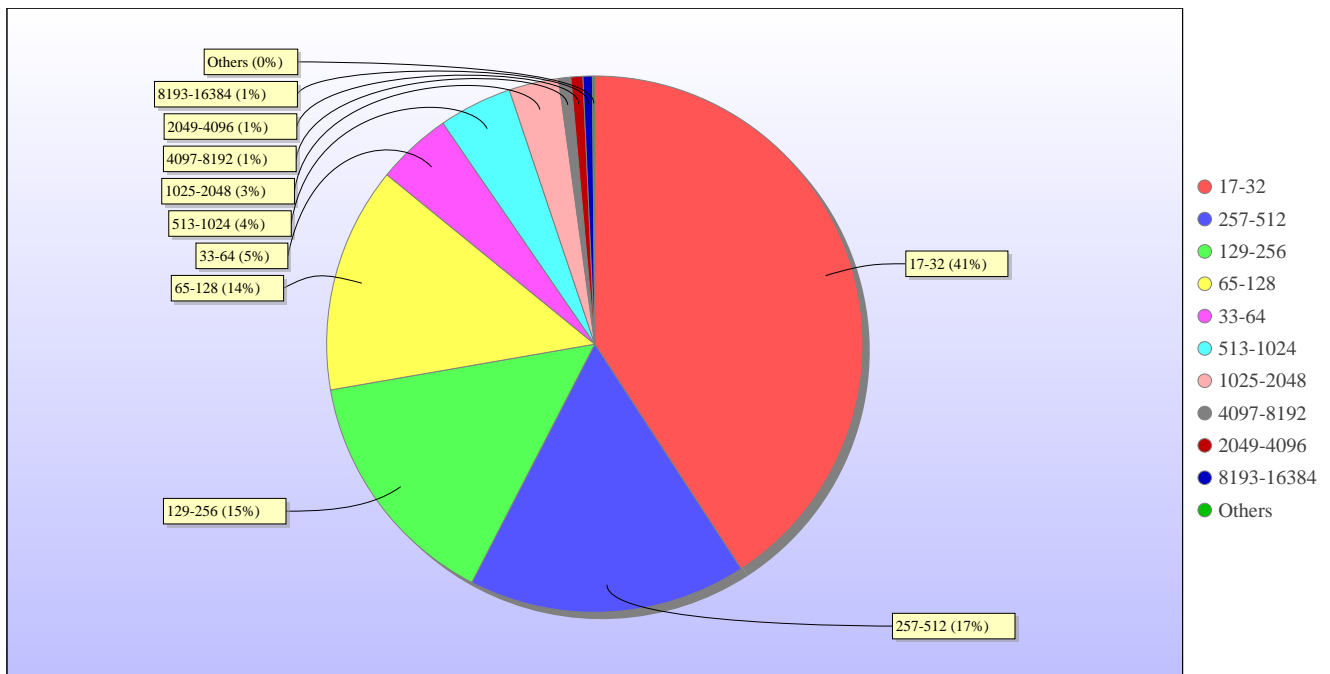
kAUs (by Size)

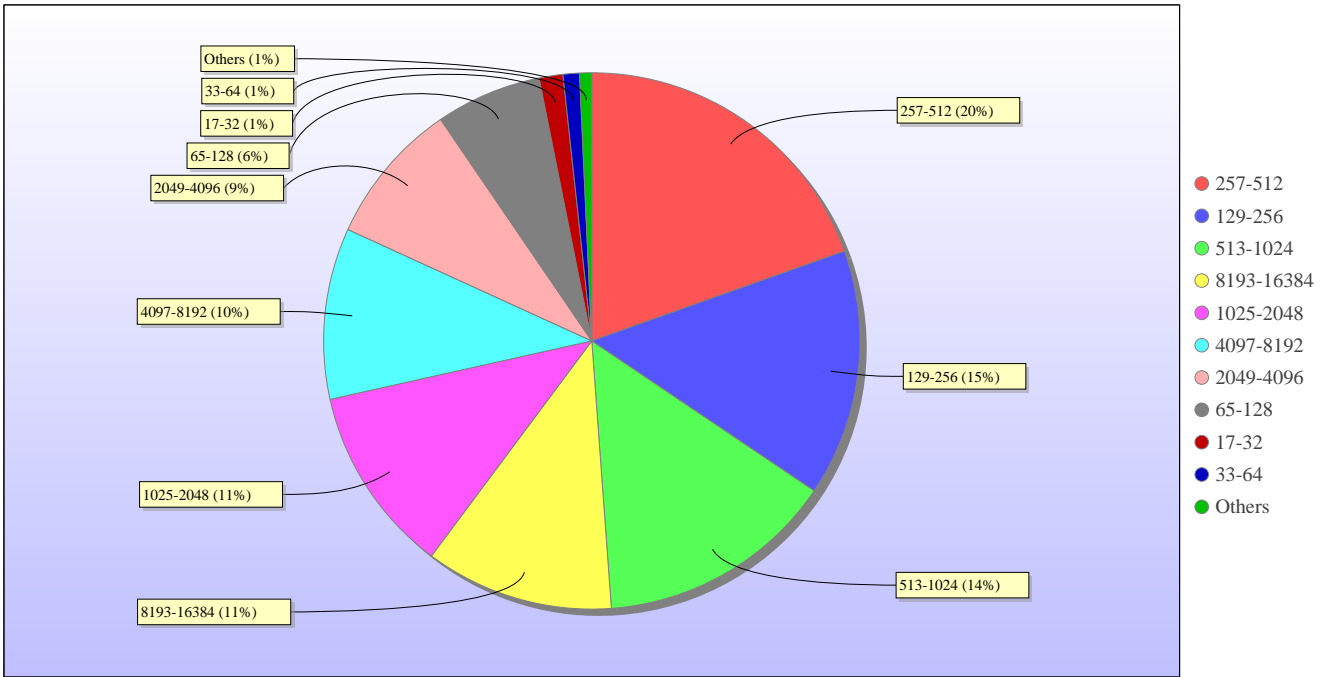
Size	kAUs	Number of Jobs
17-32	14,561.325	28,917
33-64	10,189.188	3,211
65-128	65,836.028	9,650
129-256	152,367.815	10,406
257-512	201,261.264	11,885
513-1024	146,032.44	3,132
1025-2048	113,417.125	2,127
2049-4096	88,633.923	512
4097-8192	91,827.143	521
8193-16384	81,250.776	398
16385-32768	3,833.566	70
32769-65536	1,749.969	16
65537-131072	1,944.371	14

Load plots

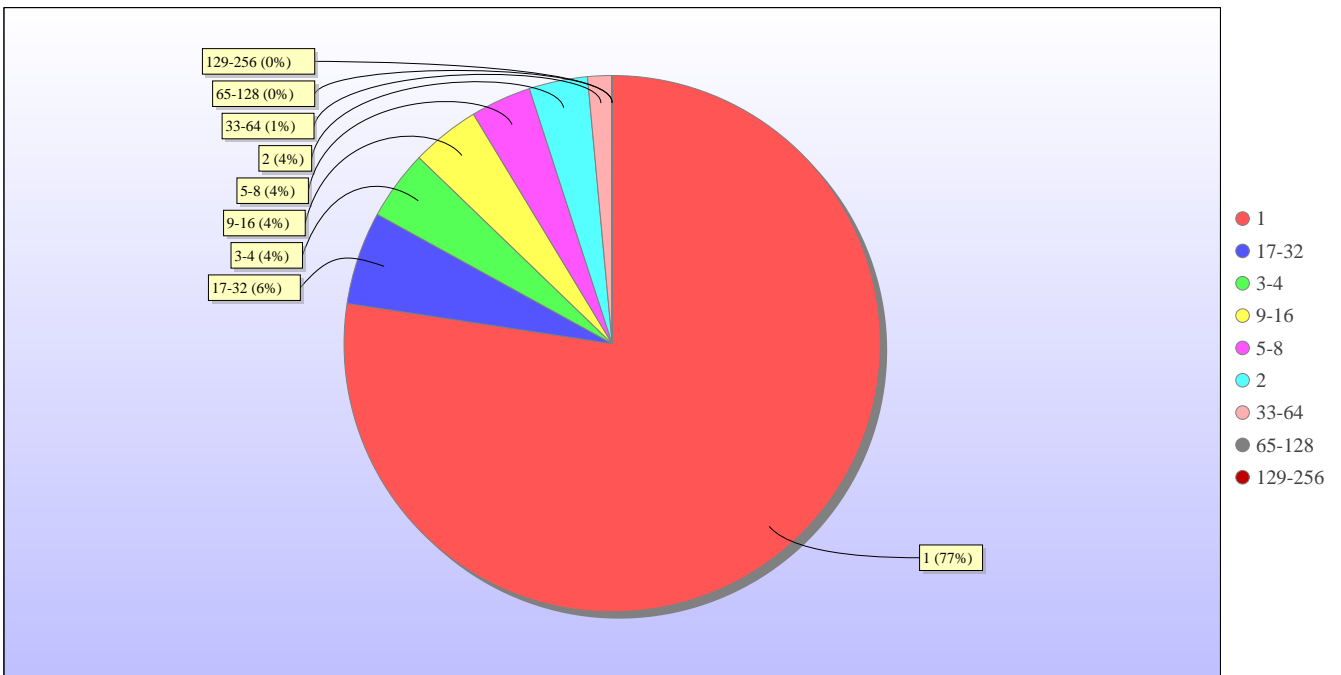


Percentage load on machine

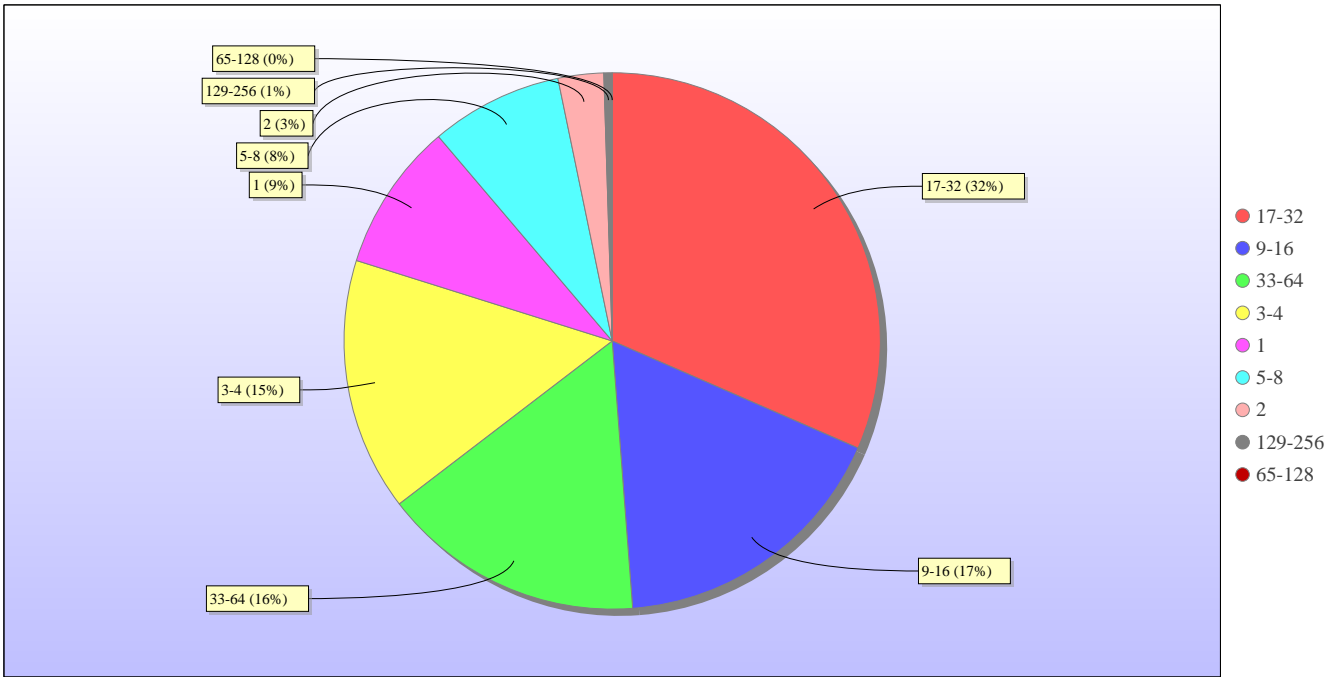




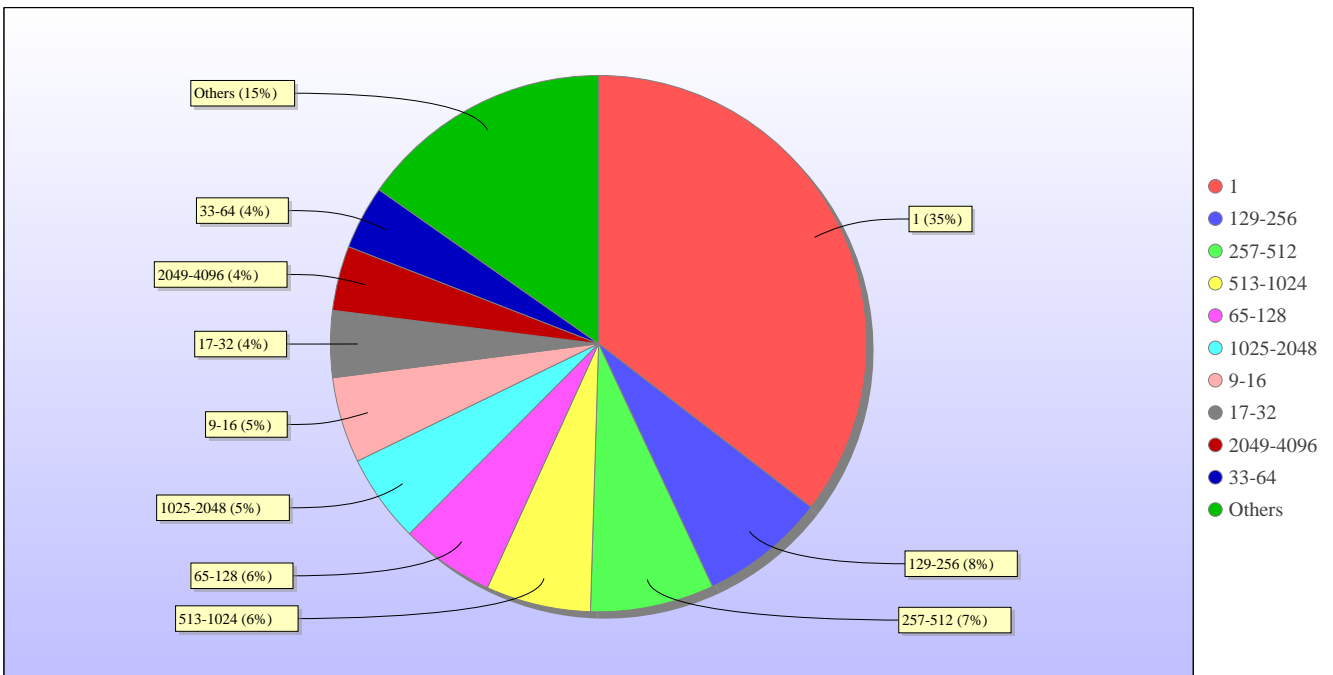
kAUs used by Size



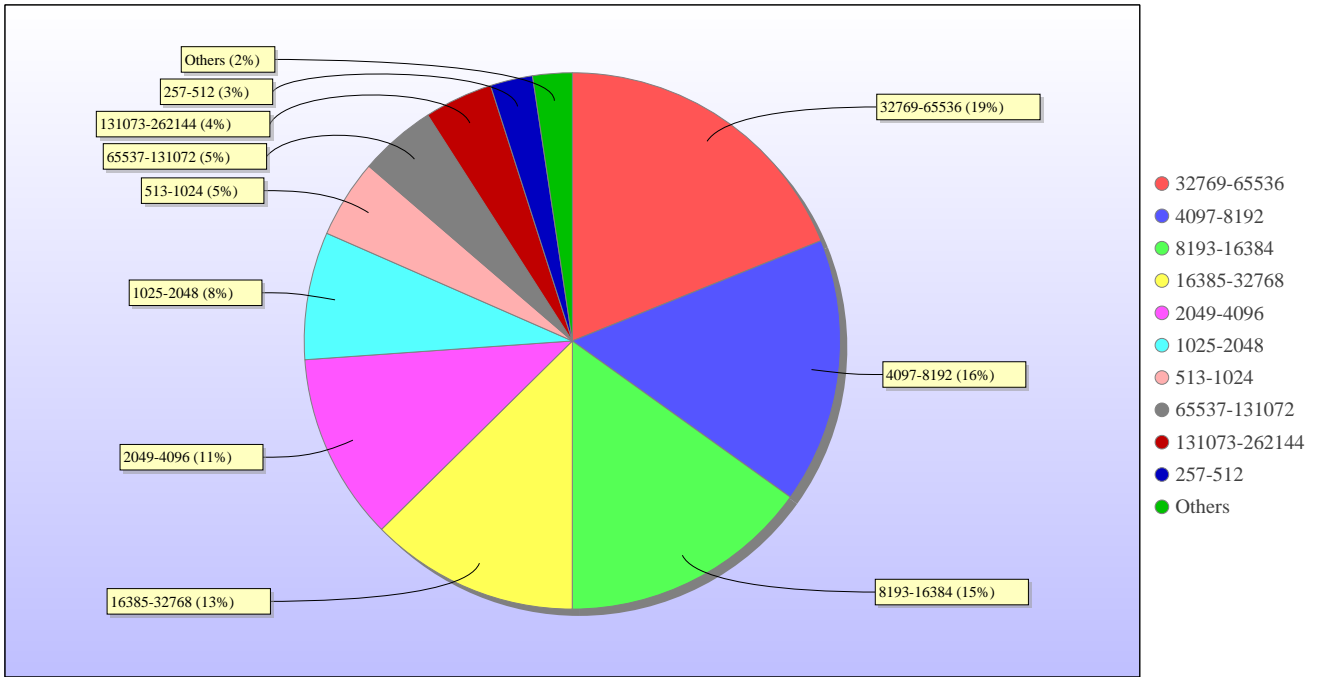
Jobs grouped by wall-clock-hours



kAUs used grouped by wall-clock-hours



Jobs grouped by core-hours

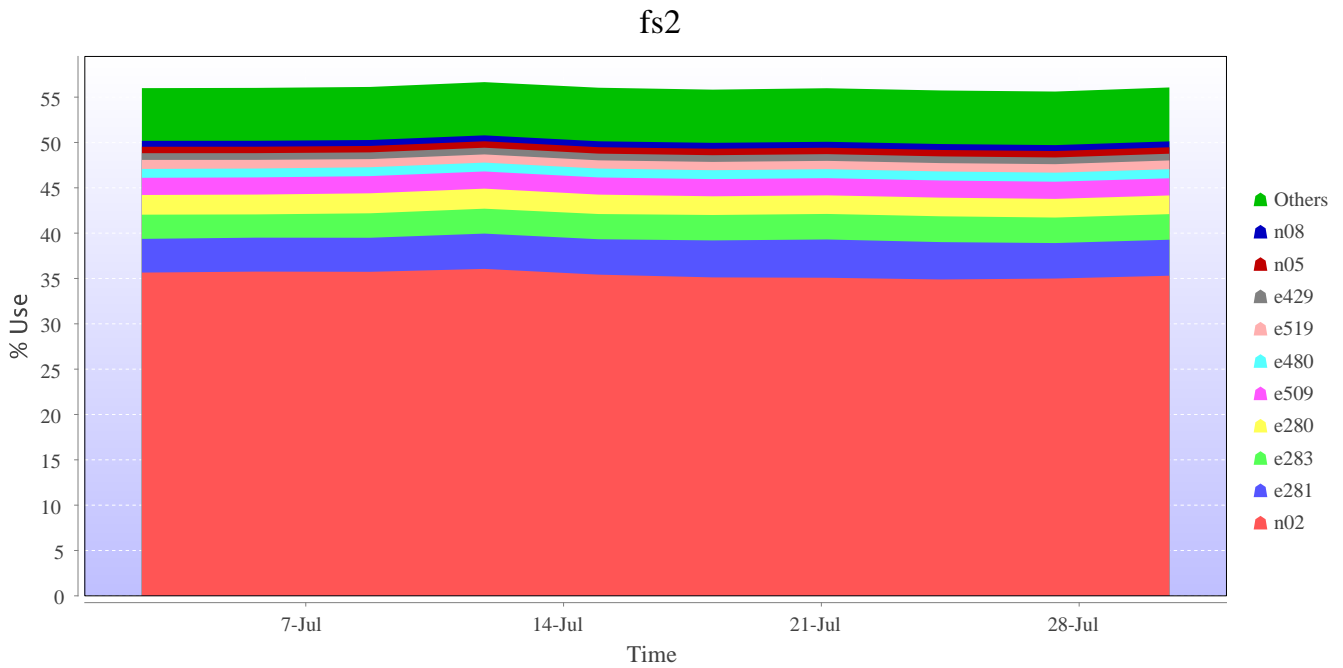


kAUs used grouped by core-hours

Disk usage

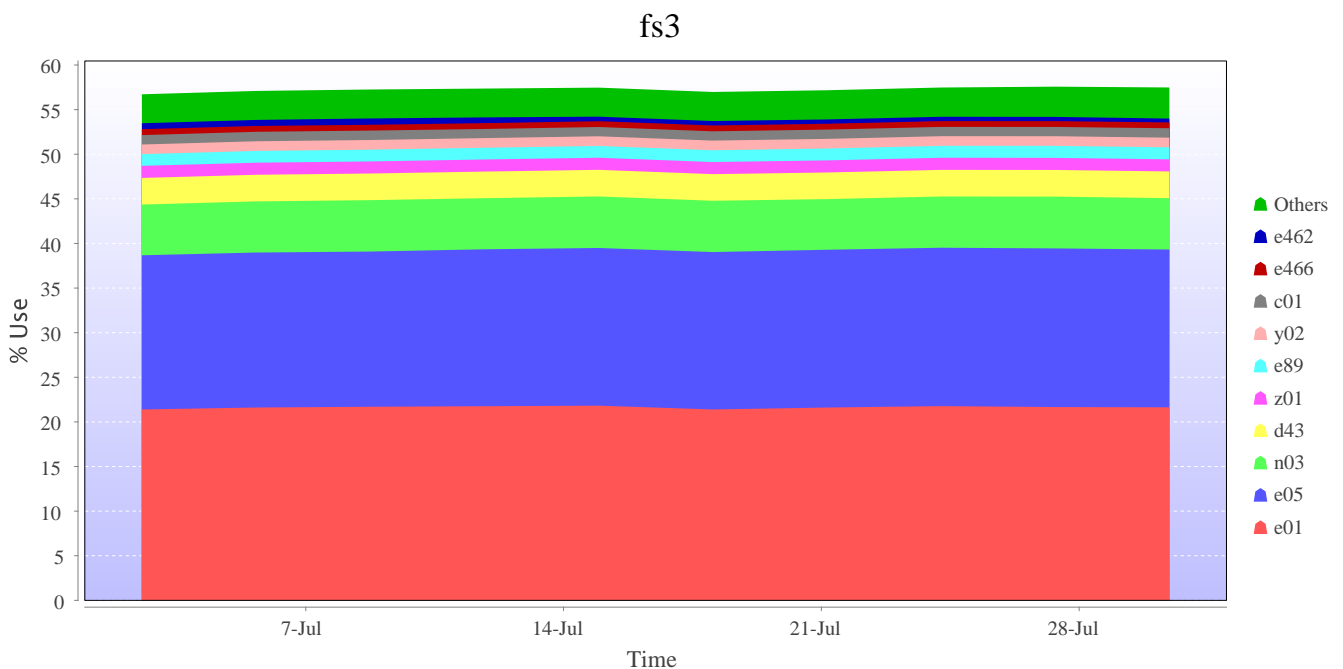
Disk usage for work (fs2)

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.



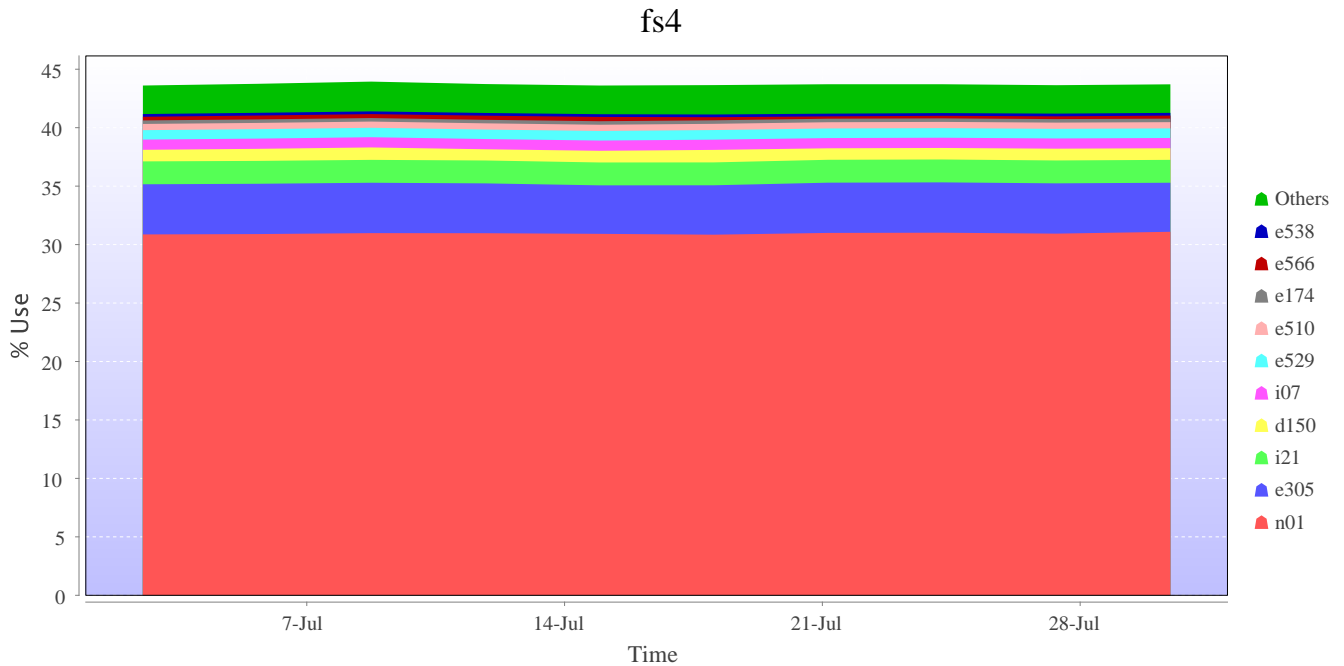
Disk usage for work (fs3)

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.



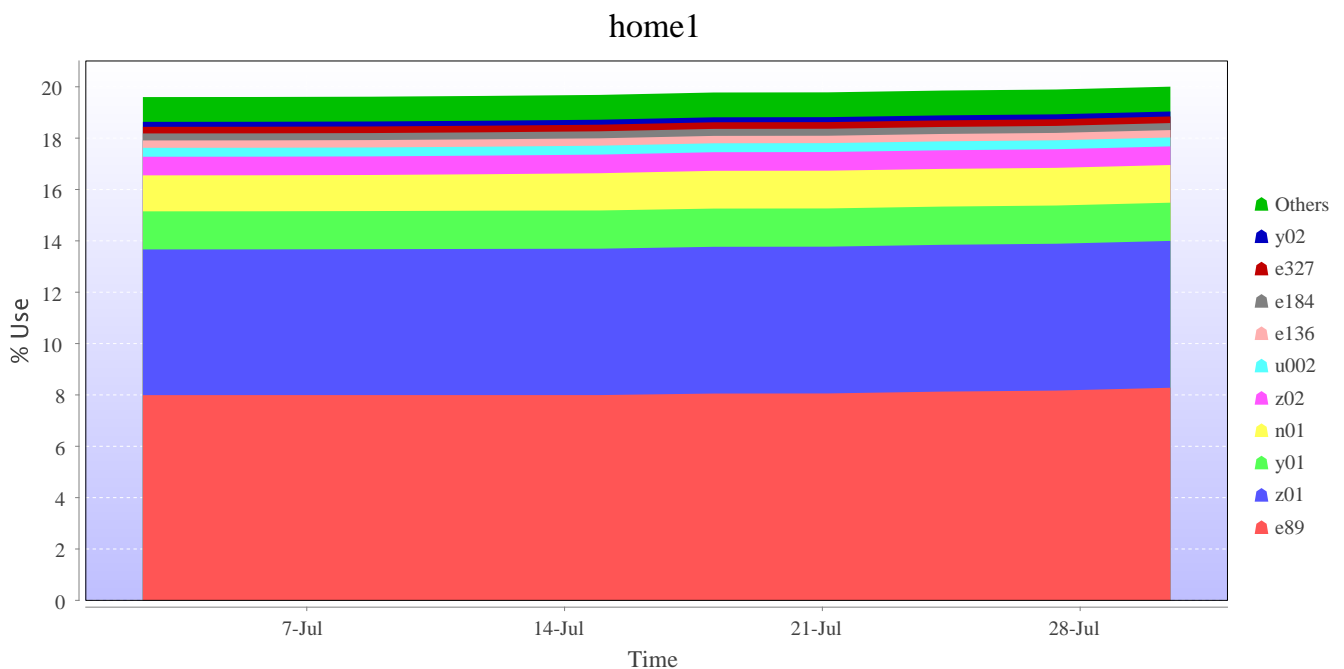
Disk usage for work (fs4)

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.



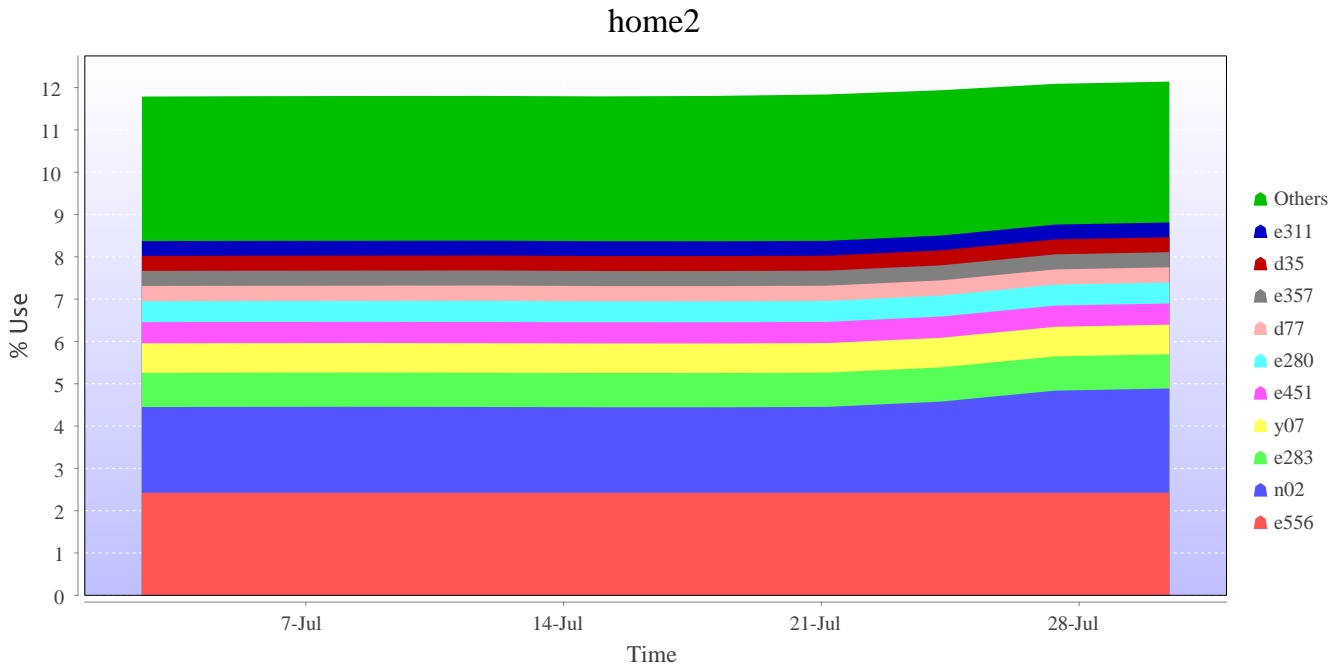
Disk usage for home (home1)

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.



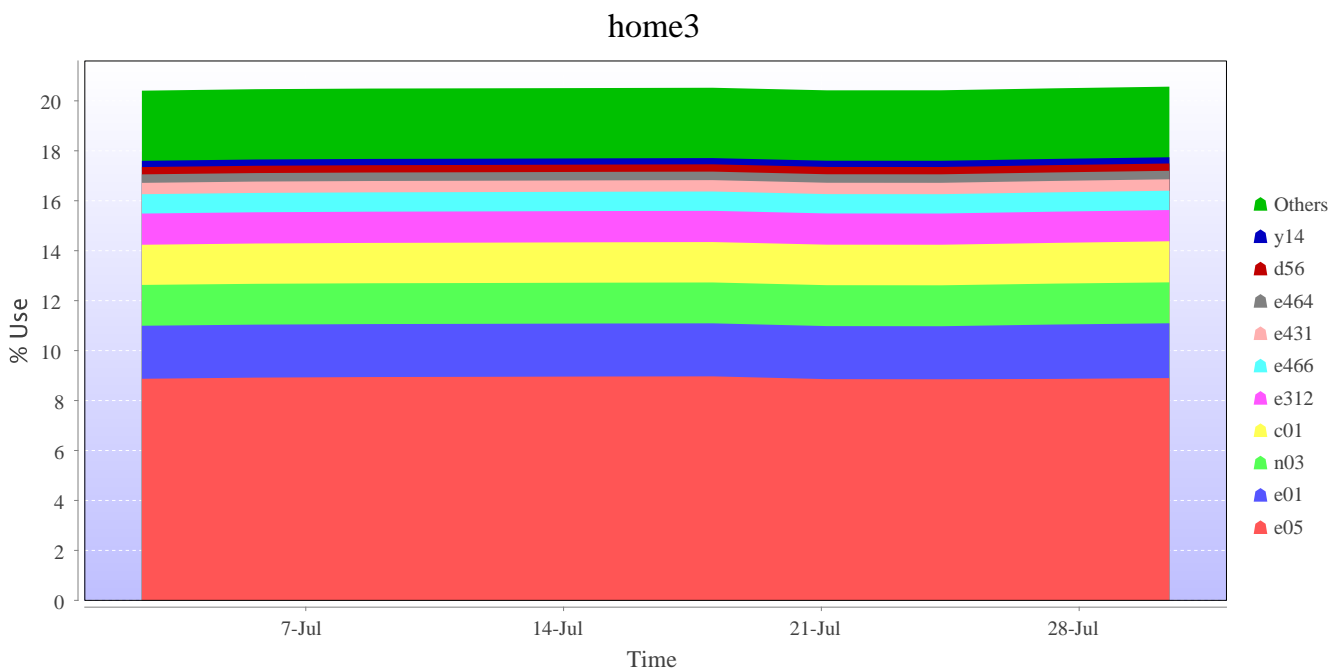
Disk usage for home (home2)

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.

