

Monthly Reporting

Report from 01 December 2017 to 31 December 2017

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.

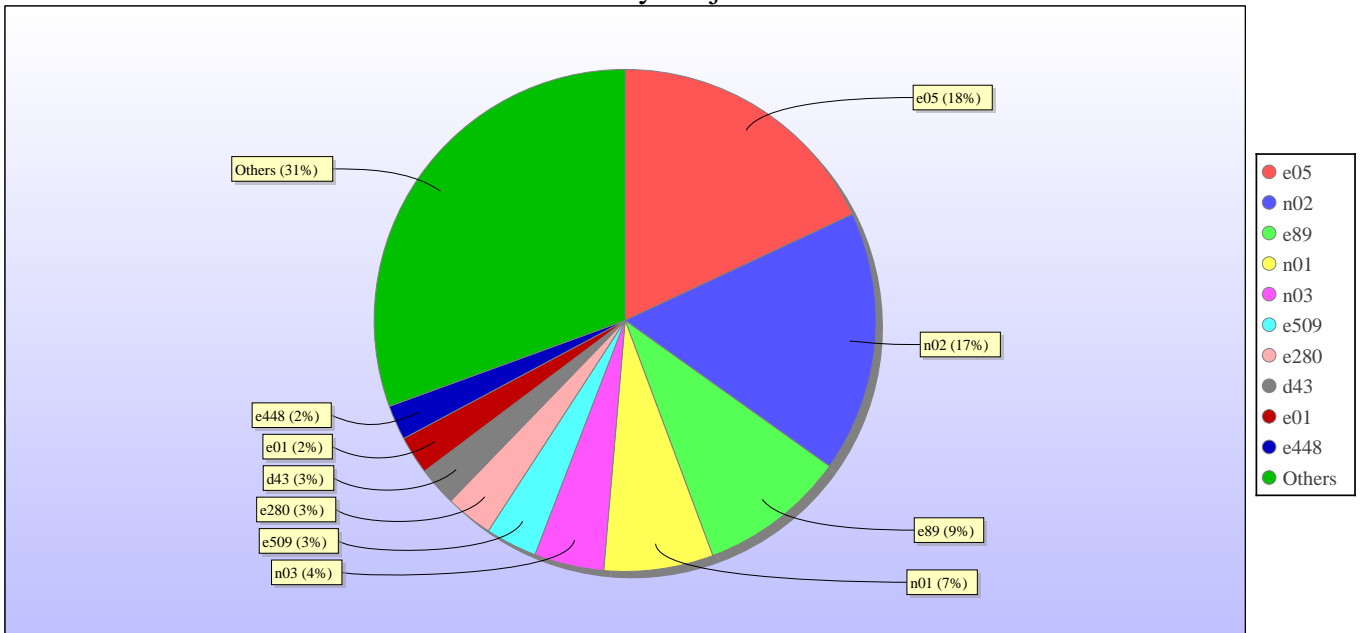
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e01	Consortia	948	23,885.1	1.81%	23,885.8	1.81%	97,232.7	7.38%
e05	Consortia	11,708	156,741.7	11.89%	175,034.6	13.28%	217,886.1	16.53%
e89	Consortia	7,624	91,710.1	6.96%	91,768.5	6.96%	121,640.0	9.23%
e280	Consortia	280	29,688.1	2.25%	29,689.5	2.25%	40,308.2	3.06%
e281	Consortia	811	6,708.2	0.51%	6,709.2	0.51%	21,502.9	1.63%
e283	Consortia	588	2,754.9	0.21%	2,755.7	0.21%	17,270.3	1.31%
e305	Consortia	697	18,190.2	1.38%	18,190.8	1.38%	22,223.9	1.69%
e529	Consortia	30	2,015.5	0.15%	2,015.5	0.15%	10,273.9	0.78%
e461	Leadership Awards	286	12,570.0	0.95%	12,570.0	0.95%	8,264.7	0.63%
e462	Leadership Awards	105	4,071.9	0.31%	4,072.3	0.31%	4,502.9	0.34%
e464	Leadership Awards	155	1,725.5	0.13%	1,725.5	0.13%	9,914.8	0.75%
e466	Leadership Awards	152	13,941.5	1.06%	13,941.5	1.06%	8,927.3	0.68%
e507	Leadership Awards	281	6,985.4	0.53%	6,985.4	0.53%	10,106.4	0.77%
e509	Leadership Awards	17	32,221.3	2.45%	32,221.5	2.45%	18,736.3	1.42%
e510	Leadership Awards	16	15,487.0	1.18%	15,487.0	1.18%	8,565.5	0.65%
e526	Leadership Awards	5	2,469.9	0.19%	2,469.9	0.19%	5,137.4	0.39%
e572	Leadership Awards	0	0.0	0.00%	0.0	0.00%	1,044.2	0.08%
n08	Leadership Awards	393	1,504.2	0.11%	1,507.9	0.11%	9,681.5	0.73%
c01	Class1a	396	1,868.4	0.14%	1,868.4	0.14%	6,475.4	0.49%
e174	Class1a	3	0.0	0.00%	0.1	0.00%	100.0	0.01%
e229	Class1a	0	0.0	0.00%	0.0	0.00%	463.6	0.04%
e291	Class1a	0	0.0	0.00%	0.0	0.00%	164.9	0.01%
e304	Class1a	218	1,920.4	0.15%	1,920.4	0.15%	5,285.7	0.40%
e332	Class1a	0	0.0	0.00%	0.0	0.00%	328.9	0.02%
e341	Class1a	169	4,357.6	0.33%	4,357.6	0.33%	4,282.8	0.32%
e358	Class1a	68	8.4	0.00%	8.4	0.00%	658.1	0.05%
e365	Class1a	42	1,656.9	0.13%	1,656.9	0.13%	4,802.6	0.36%
e375	Class1a	0	0.0	0.00%	0.0	0.00%	3,082.2	0.23%
e378	Class1a	116	5,537.7	0.42%	5,537.7	0.42%	4,933.3	0.37%
e403	Class1a	5	0.0	0.00%	0.0	0.00%	8,622.5	0.65%
e429	Class1a	63	2,541.2	0.19%	2,541.2	0.19%	1,035.7	0.08%
e431	Class1a	127	223.6	0.02%	223.6	0.02%	949.1	0.07%
e432	Class1a	9	209.5	0.02%	209.5	0.02%	7,026.4	0.53%
e448	Class1a	1,953	21,669.5	1.64%	21,669.6	1.64%	33,568.4	2.55%

Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e475	Class1a	141	88.3	0.01%	88.3	0.01%	3,467.1	0.26%
e477	Class1a	358	11,513.0	0.87%	11,513.0	0.87%	4,311.5	0.33%
e480	Class1a	23	1,400.1	0.11%	1,400.1	0.11%	3,973.5	0.30%
e499	Class1a	1	34.6	0.00%	34.6	0.00%	10,981.9	0.83%
e513	Class1a	23	33.8	0.00%	33.8	0.00%	178.2	0.01%
e514	Class1a	0	0.0	0.00%	0.0	0.00%	171.2	0.01%
e515	Class1a	215	8.4	0.00%	8.4	0.00%	842.2	0.06%
e516	Class1a	141	7,330.8	0.56%	7,330.8	0.56%	13,175.1	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%	511.0	0.04%
e519	Class1a	177	8,180.8	0.62%	8,180.8	0.62%	17,033.0	1.29%
e520	Class1a	2	2,156.0	0.16%	2,156.0	0.16%	2,526.6	0.19%
e523	Class1a	46	18,489.3	1.40%	18,489.3	1.40%	5,053.2	0.38%
e527	Class1a	0	0.0	0.00%	0.0	0.00%	1,179.1	0.09%
e530	Class1a	38	1,888.4	0.14%	1,888.4	0.14%	1,022.0	0.08%
e537	Class1a	9	8,321.2	0.63%	8,321.2	0.63%	1,137.8	0.09%
e558	Class1a	22	605.8	0.05%	605.8	0.05%	756.1	0.06%
e570	Class1a	0	0.0	0.00%	0.0	0.00%	2,901.9	0.22%
e571	Class1a	0	0.0	0.00%	0.0	0.00%	57.7	0.00%
e554	Class1b	3	0.1	0.00%	0.1	0.00%	84.2	0.01%
e348	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	2,797.5	0.21%
e484	Direct Access: ARCHER RAP	52	9.7	0.00%	9.7	0.00%	1,546.5	0.12%
e541	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	2,715.1	0.21%
e542	Direct Access: ARCHER RAP	51	39.2	0.00%	39.2	0.00%	1,643.8	0.12%
e543	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	2,142.7	0.16%
e545	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	823.4	0.06%
e546	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	2,474.0	0.19%
e547	Direct Access: ARCHER RAP	35	2,760.2	0.21%	2,763.3	0.21%	2,526.6	0.19%
e548	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	2,348.2	0.18%
e549	Direct Access: ARCHER RAP	2	0.1	0.00%	0.1	0.00%	1,664.3	0.13%
e550	Direct Access: ARCHER RAP	48	192.3	0.01%	192.3	0.01%	2,547.9	0.19%
e552	Direct Access: ARCHER RAP	16	11,657.2	0.88%	11,657.2	0.88%	3,136.1	0.24%
e553	Direct Access: ARCHER RAP	44	282.2	0.02%	282.2	0.02%	3,102.9	0.24%
e564	Direct Access: ARCHER RAP	23	5,180.8	0.39%	5,180.8	0.39%	4,592.6	0.35%
e565	Direct Access: ARCHER RAP	157	419.2	0.03%	419.2	0.03%	5,139.3	0.39%
e566	Direct Access: ARCHER RAP	50	538.3	0.04%	538.3	0.04%	6,870.7	0.52%
e567	Direct Access: ARCHER RAP	245	1,296.7	0.10%	1,296.8	0.10%	5,123.9	0.39%
e544	Instant Access	0	0.0	0.00%	0.0	0.00%	194.7	0.01%
e555	Instant Access	15	95.3	0.01%	95.3	0.01%	191.8	0.01%
e557	Instant Access	0	0.0	0.00%	0.0	0.00%	8.5	0.00%
e559	Instant Access	19	245.1	0.02%	245.1	0.02%	201.0	0.02%
e560	Instant Access	3	0.8	0.00%	0.8	0.00%	204.4	0.02%
e561	Instant Access	9	467.0	0.04%	467.0	0.04%	189.8	0.01%
e562	Instant Access	0	0.0	0.00%	0.0	0.00%	205.6	0.02%
e563	Instant Access	46	20.1	0.00%	20.1	0.00%	207.3	0.02%
e508	Training	4	172.1	0.01%	172.1	0.01%	2,062.2	0.16%
e521	Training	33	319.8	0.02%	319.8	0.02%	1,764.3	0.13%

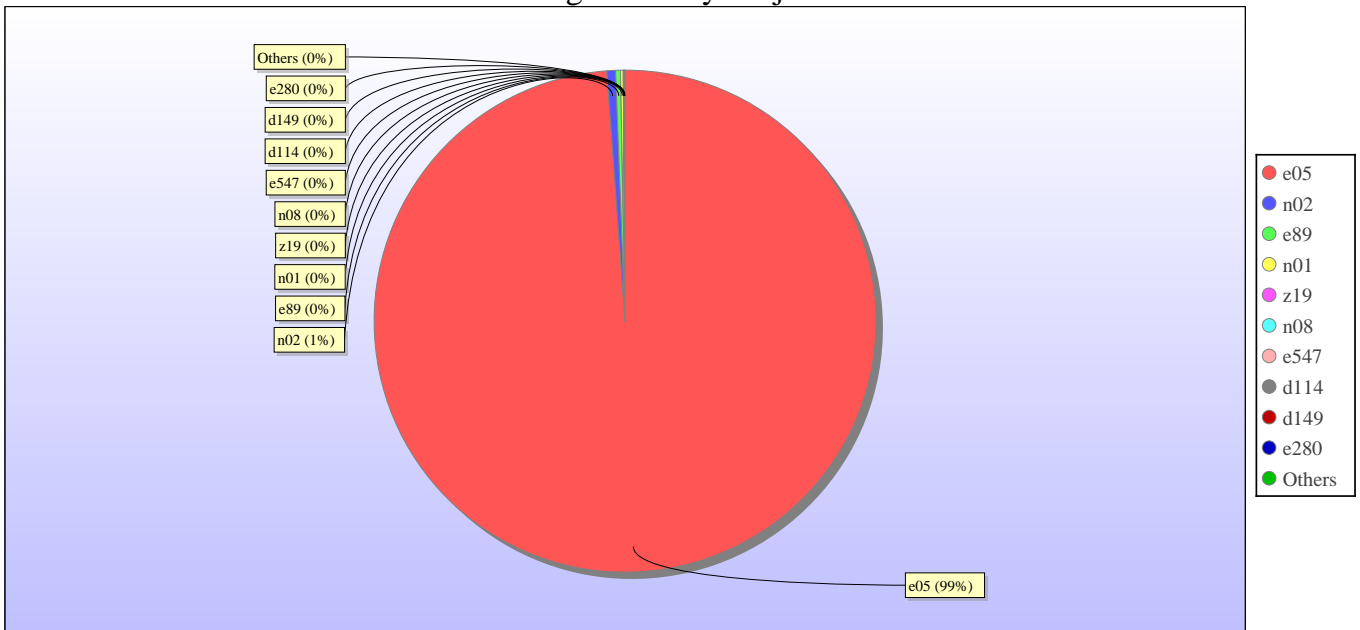
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e538	Training	273	665.6	0.05%	665.7	0.05%	2,896.7	0.22%
e556	Training	243	1,159.3	0.09%	1,159.3	0.09%	3,055.2	0.23%
EPSRC Total		29,832	548,235.3	41.60%	566,598.8	43.00%	846,738.8	64.26%
n01	Consortia	7,692	70,211.9	5.33%	68,354.9	5.19%	96,227.4	7.30%
n02	Consortia	29,846	163,473.2	12.41%	163,133.2	12.38%	169,693.2	12.88%
n03	Consortia	1,826	43,529.1	3.30%	43,530.2	3.30%	75,249.3	5.71%
NERC Total		39,364	277,214.1	21.04%	275,018.3	20.87%	341,169.9	25.89%
e568	Research	0	0.0	0.00%	0.0	0.00%	3,391.4	0.26%
BBSRC Total		0	0.0	0.00%	0.0	0.00%	3,391.4	0.26%
pr1u1360	DECI: EXEC	20	2,084.9	0.16%	2,084.9	0.16%	0.0	0.00%
pr1u1362	DECI: EXEC	35	200.6	0.02%	200.6	0.02%	2,181.7	0.17%
pr1u1363	DECI: EXEC	36	167.3	0.01%	167.3	0.01%	2,691.4	0.20%
pr1u1451	DECI: EXEC	92	6,363.4	0.48%	6,363.4	0.48%	5,653.5	0.43%
pr1u1452	DECI: EXEC	210	9,639.8	0.73%	9,639.8	0.73%	5,653.5	0.43%
pr1u1453	DECI: EXEC	6	1,041.9	0.08%	1,041.9	0.08%	14,133.8	1.07%
pr1u1454	DECI: EXEC	75	15,062.2	1.14%	15,062.2	1.14%	6,309.3	0.48%
pr1u1455	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	1,607.7	0.12%
pr1u1456	DECI: EXEC	23	6,617.9	0.50%	6,617.9	0.50%	5,333.6	0.40%
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%	195.4	0.01%
pr1utd02	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	188.5	0.01%
pr1u1304	DECI: HOME	87	2,492.4	0.19%	2,492.4	0.19%	4,097.1	0.31%
pr1u1311	DECI: HOME	0	0.0	0.00%	0.0	0.00%	1,177.3	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%	857.3	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		584	43,670.4	3.31%	43,670.4	3.31%	50,331.3	3.82%
ecse0103	eCSE	0	0.0	0.00%	0.0	0.00%	26.5	0.00%
ecse0803	eCSE	0	0.0	0.00%	0.0	0.00%	46.4	0.00%
ecse0809	eCSE	0	0.0	0.00%	0.0	0.00%	69.4	0.01%
ecse0815	eCSE	0	0.0	0.00%	0.0	0.00%	38.4	0.00%
ecse0820	eCSE	74	0.2	0.00%	0.2	0.00%	47.1	0.00%
ecse0904	eCSE	0	0.0	0.00%	0.0	0.00%	42.6	0.00%
ecse0910	eCSE	7	0.2	0.00%	0.2	0.00%	40.4	0.00%
ecse0919	eCSE	2	1.1	0.00%	1.1	0.00%	36.4	0.00%
ecse1002	eCSE	23	44.3	0.00%	44.3	0.00%	65.8	0.00%
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%	43.7	0.00%
ecse1204	eCSE	0	0.0	0.00%	0.0	0.00%	12.8	0.00%
ecse1210	eCSE	0	0.0	0.00%	0.0	0.00%	478.8	0.04%
ecse1220	eCSE	0	0.0	0.00%	0.0	0.00%	25.5	0.00%
eCSE Total		106	45.9	0.00%	45.9	0.00%	1,014.8	0.08%
d43	ECDF	191	24,334.7	1.85%	24,334.7	1.85%	5,945.2	0.45%
d25	Research	17	138.4	0.01%	138.4	0.01%	810.2	0.06%
d35	Research	192	1,137.1	0.09%	1,137.1	0.09%	424.7	0.03%
d56	Research	1,033	2,311.3	0.18%	2,311.3	0.18%	5,895.4	0.45%
d60	Research	0	0.0	0.00%	0.0	0.00%	265.7	0.02%
d67	Research	63	223.1	0.02%	223.1	0.02%	424.7	0.03%
d71	Research	30	89.1	0.01%	89.1	0.01%	578.0	0.04%
d87	Research	20	0.0	0.00%	1.2	0.00%	0.1	0.00%
d88	Research	22	3.1	0.00%	3.1	0.00%	13.4	0.00%
d96	Research	332	4,473.6	0.34%	4,473.6	0.34%	1,698.6	0.13%
d101	Research	86	984.5	0.07%	984.5	0.07%	424.7	0.03%
d107	Research	0	0.0	0.00%	0.0	0.00%	212.3	0.02%

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d114	Research	179	10,403.6	0.79%	10,406.1	0.79%	8,936.1	0.68%
d118	Research	0	0.0	0.00%	0.0	0.00%	105.4	0.01%
d137	Research	10	4.0	0.00%	4.0	0.00%	2,547.9	0.19%
d142	Research	96	1,247.1	0.09%	1,247.1	0.09%	5,895.4	0.45%
d143	Research	11	70.3	0.01%	70.3	0.01%	4,282.8	0.32%
d145	Research	45	12,836.5	0.97%	12,836.5	0.97%	1,698.6	0.13%
d146	Research	0	0.0	0.00%	0.0	0.00%	527.2	0.04%
d149	Research	178	11,540.7	0.88%	11,542.3	0.88%	4,246.6	0.32%
d150	Research	79	13,746.1	1.04%	13,746.1	1.04%	8,085.1	0.61%
d152	Research	1	0.0	0.00%	0.0	0.00%	173.8	0.01%
d155	Research	26	1.2	0.00%	1.2	0.00%	1,504.6	0.11%
d132	Industrial	0	0.0	0.00%	0.0	0.00%	108.4	0.01%
d153	Industrial	1	0.0	0.00%	0.0	0.00%	1,252.8	0.10%
d165	Industrial	0	0.0	0.00%	0.0	0.00%	34.2	0.00%
e540	Industrial	0	0.0	0.00%	0.0	0.00%	492.0	0.04%
i01	Industrial	0	0.0	0.00%	0.0	0.00%	79.3	0.01%
i18	Industrial	0	0.0	0.00%	0.0	0.00%	2,932.7	0.22%
i20	Industrial	0	0.0	0.00%	0.0	0.00%	102.3	0.01%
i21	Industrial	0	0.0	0.00%	0.0	0.00%	13,032.3	0.99%
i22	Industrial	0	0.0	0.00%	0.0	0.00%	200.0	0.02%
i200	Industrial	20	6.2	0.00%	6.2	0.00%	196.1	0.01%
i219	Industrial	1	0.0	0.00%	0.1	0.00%	168.4	0.01%
x06	Industrial	0	0.0	0.00%	0.0	0.00%	2.7	0.00%
x08	Industrial	105	310.7	0.02%	310.7	0.02%	1,358.9	0.10%
d74	Training	16	0.3	0.00%	0.3	0.00%	55.2	0.00%
d133	Training	0	0.0	0.00%	0.0	0.00%	42.5	0.00%
d154	Training	17	0.0	0.00%	0.0	0.00%	168.9	0.01%
e482	Training	0	0.0	0.00%	0.0	0.00%	25.5	0.00%
d131	Service	17	53.1	0.00%	53.1	0.00%	288.5	0.02%
d134	Service	1	21.6	0.00%	21.6	0.00%	202.1	0.02%
y01	Service	0	0.0	0.00%	0.0	0.00%	8.5	0.00%
y02	Service	0	0.0	0.00%	0.0	0.00%	169.9	0.01%
y07	Service	9	0.0	0.00%	0.0	0.00%	84.9	0.01%
z02	Service	0	0.0	0.00%	0.0	0.00%	101.3	0.01%
z17	Service	42	303.4	0.02%	303.4	0.02%	842.2	0.06%
z99	Service	19	0.1	0.00%	0.1	0.00%	8.5	0.00%
d84	UoE Seedcorn	1	7.1	0.00%	7.1	0.00%	424.7	0.03%
DirectorsTime Total		2,860	84,246.7	6.39%	84,252.1	6.39%	77,079.2	5.85%
y14	Training	711	731.2	0.06%	487.7	0.04%	594.5	0.05%
y21	Service	0	0.0	0.00%	0.0	0.00%	78.3	0.01%
z01	Service	12	0.1	0.00%	0.1	0.00%	42.5	0.00%
z19	Service	90	3.5	0.00%	7.5	0.00%	5,520.5	0.42%
CSE Total		813	734.8	0.06%	495.2	0.04%	6,235.8	0.47%
w03	Service	0	0.0	0.00%	0.0	0.00%	97.0	0.01%
Internal Total		0	0.0	0.00%	0.0	0.00%	97.0	0.01%
Total		73,559	954,147.2	72.41%	970,080.7	73.62%	1,326,058.2	100.63%

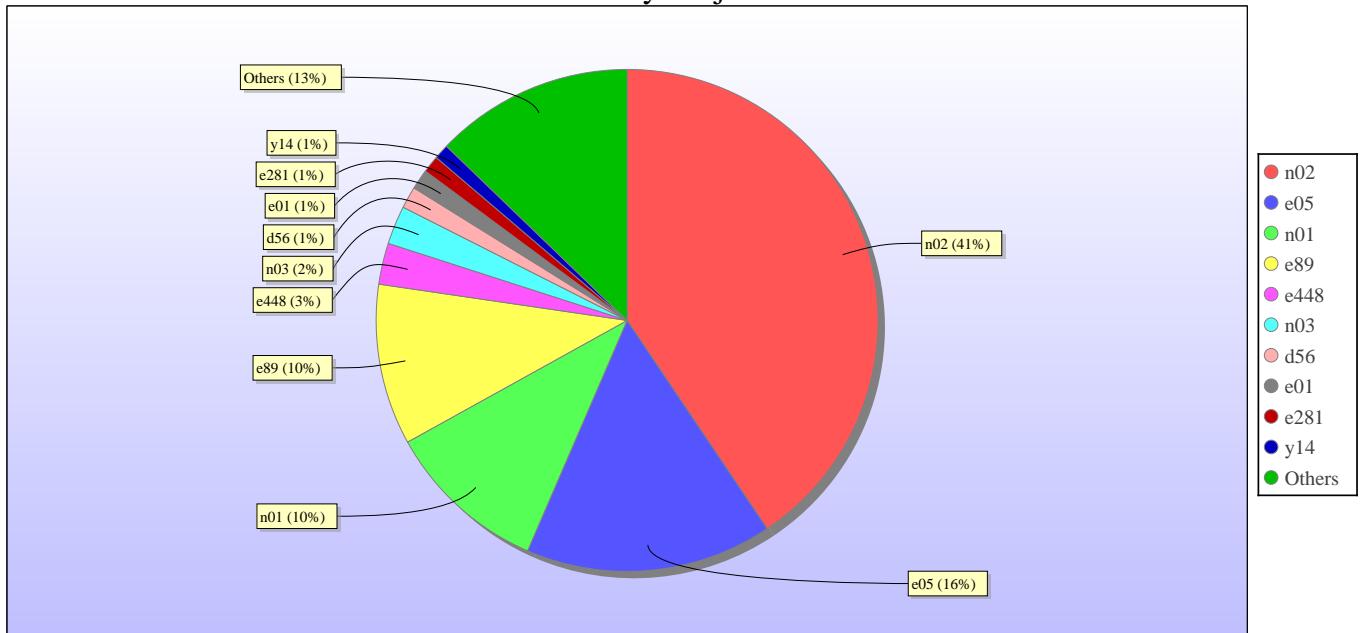
Use by Project



Uncharged Use by Project



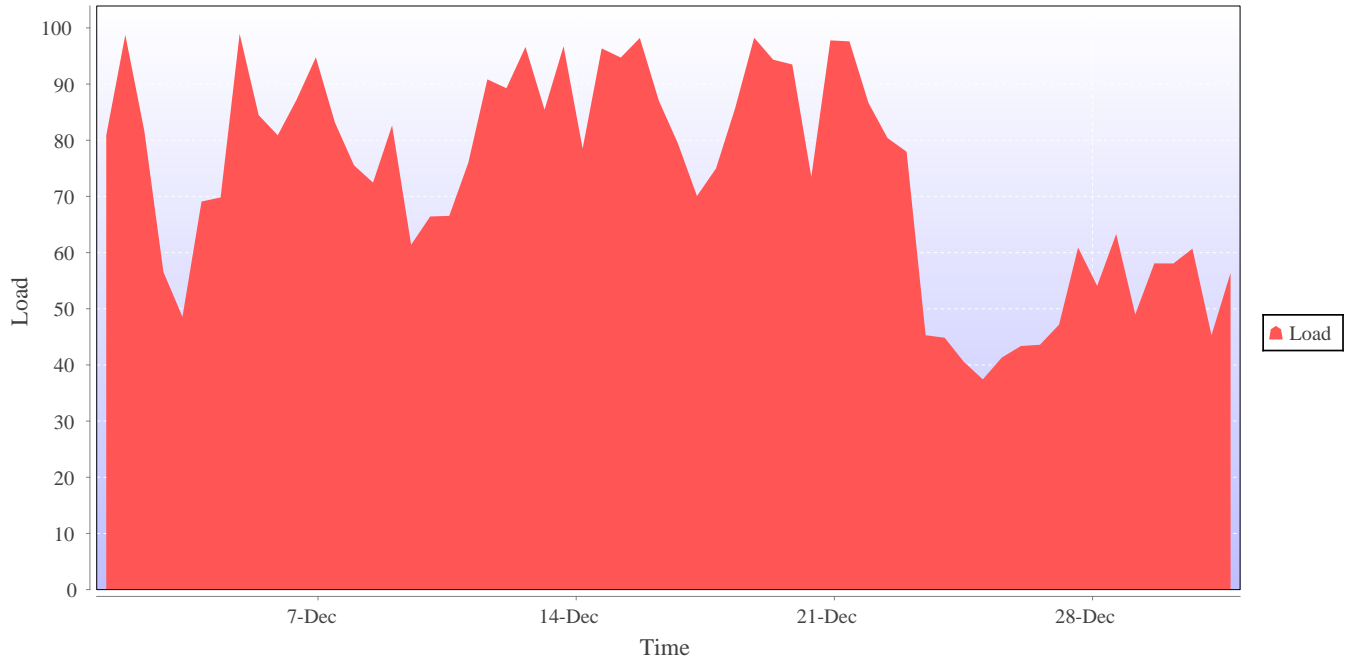
Jobs by Project



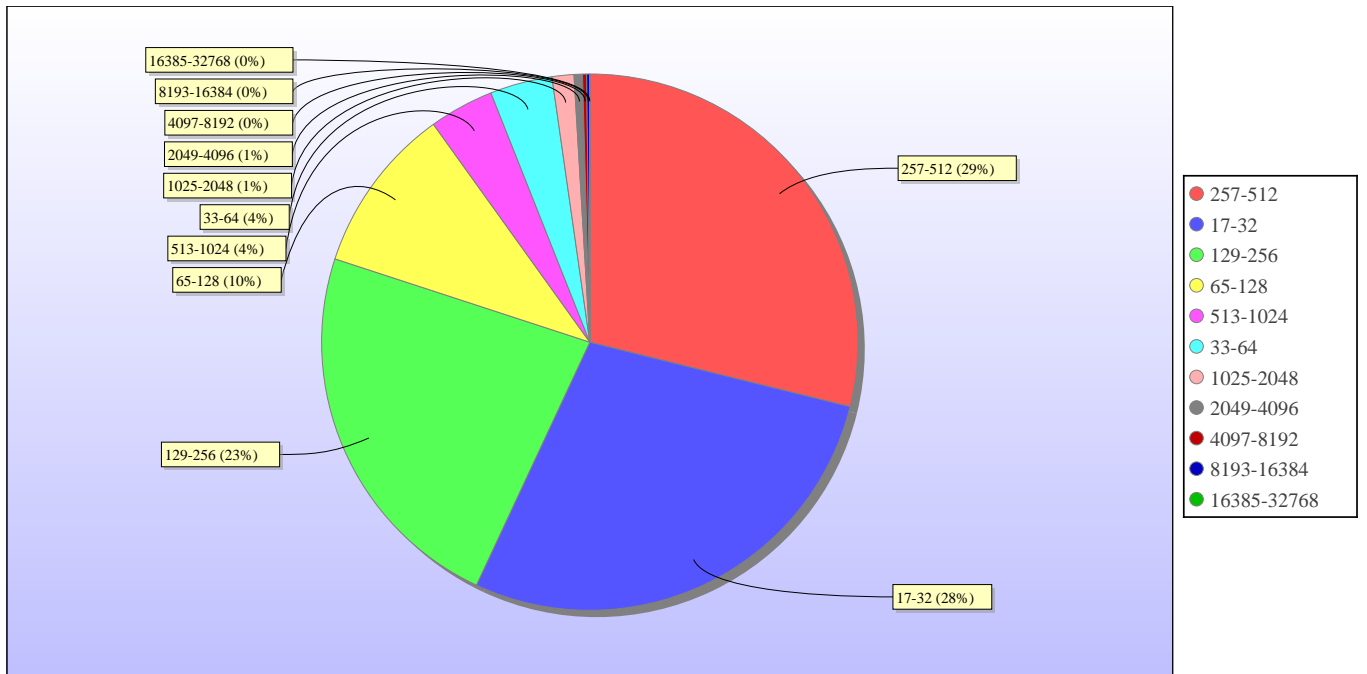
kAUs (by Size)

Size	kAUs	Number of Jobs
17-32	9,560.71	20,653
33-64	9,248.834	2,760
65-128	63,734.458	7,401
129-256	147,480.25	16,970
257-512	189,625.845	21,229
513-1024	123,545.892	2,866
1025-2048	160,179.666	969
2049-4096	75,060.895	372
4097-8192	95,894.092	182
8193-16384	39,887.382	129
16385-32768	32,204.51	10

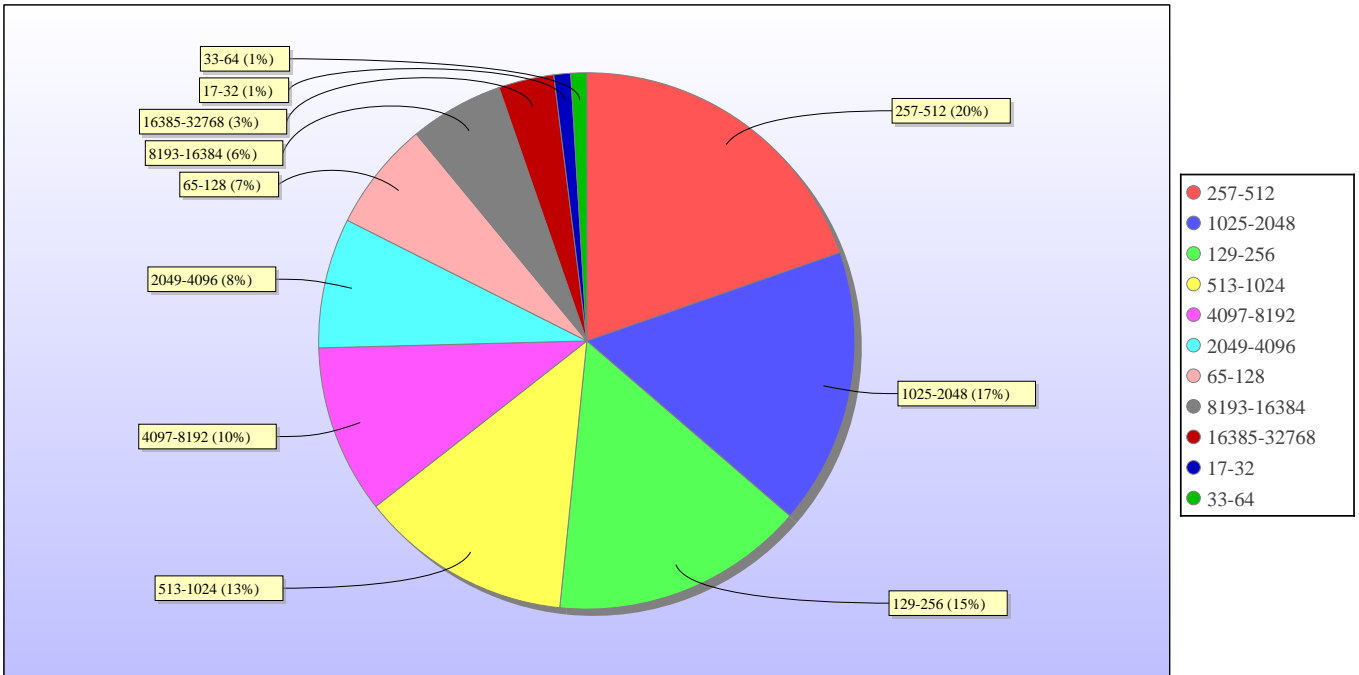
Load plots



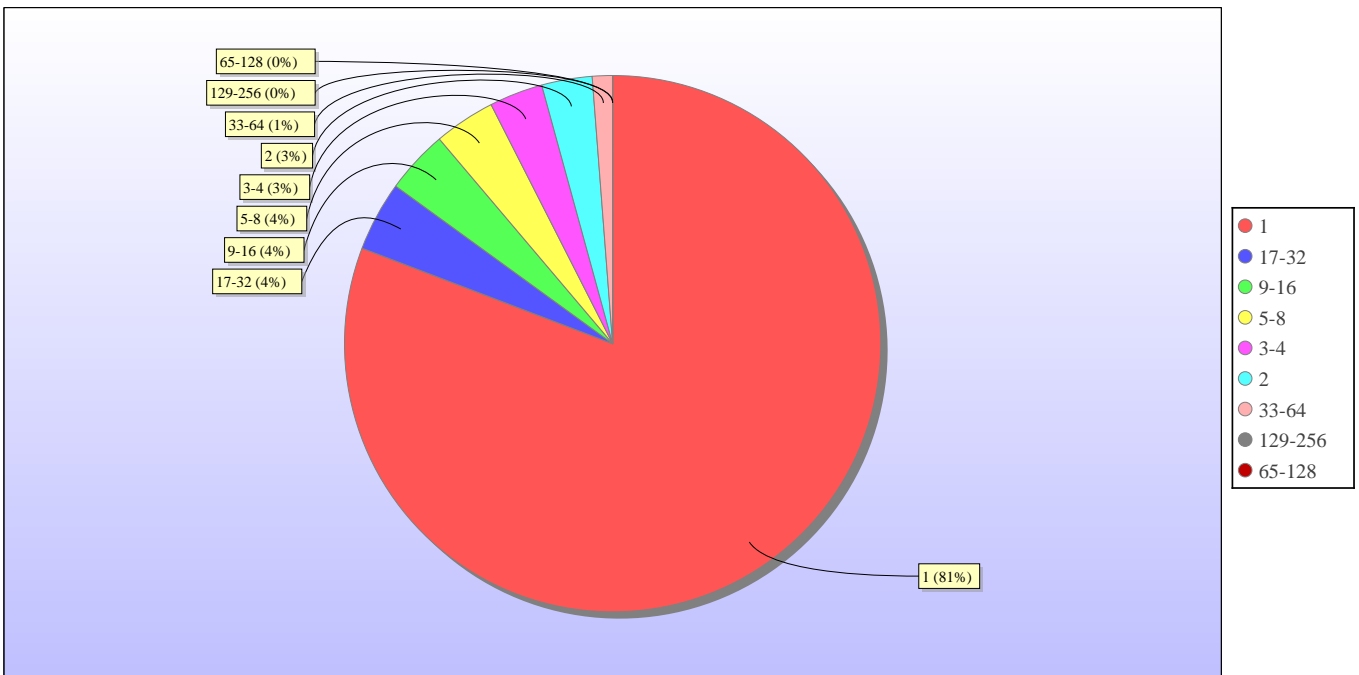
Percentage load on machine



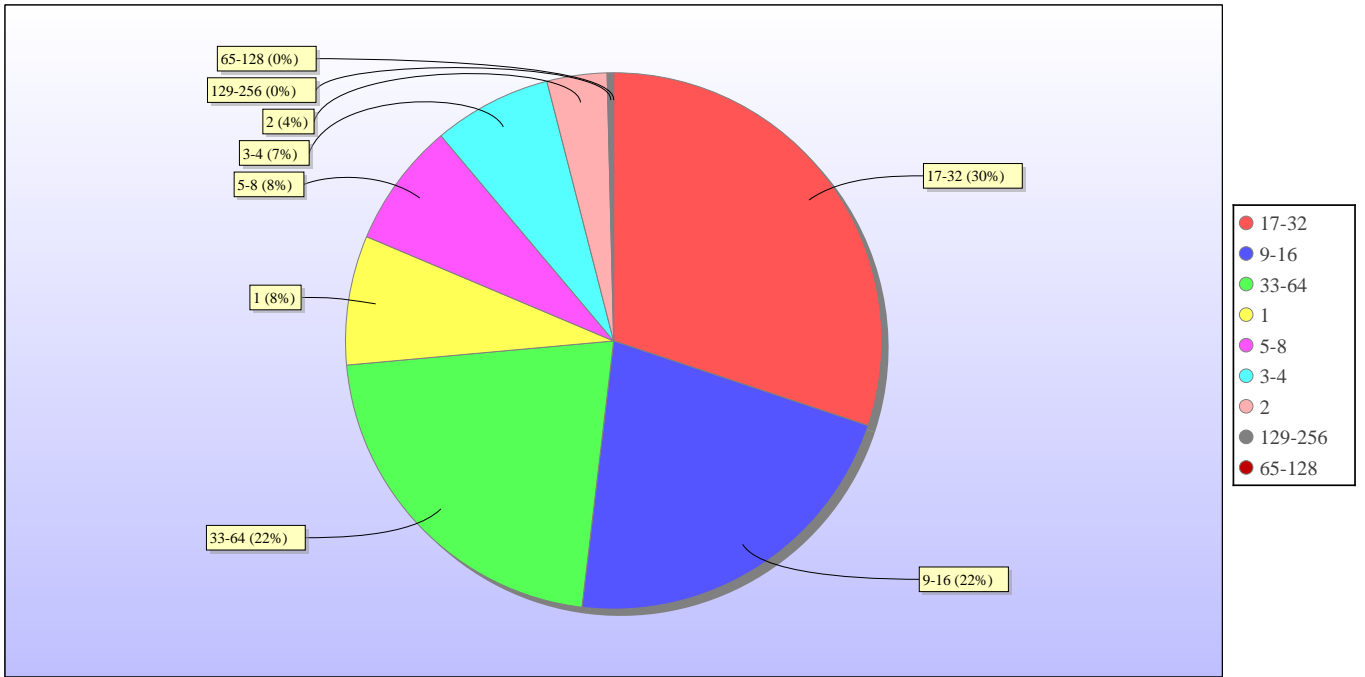
Jobs by Size



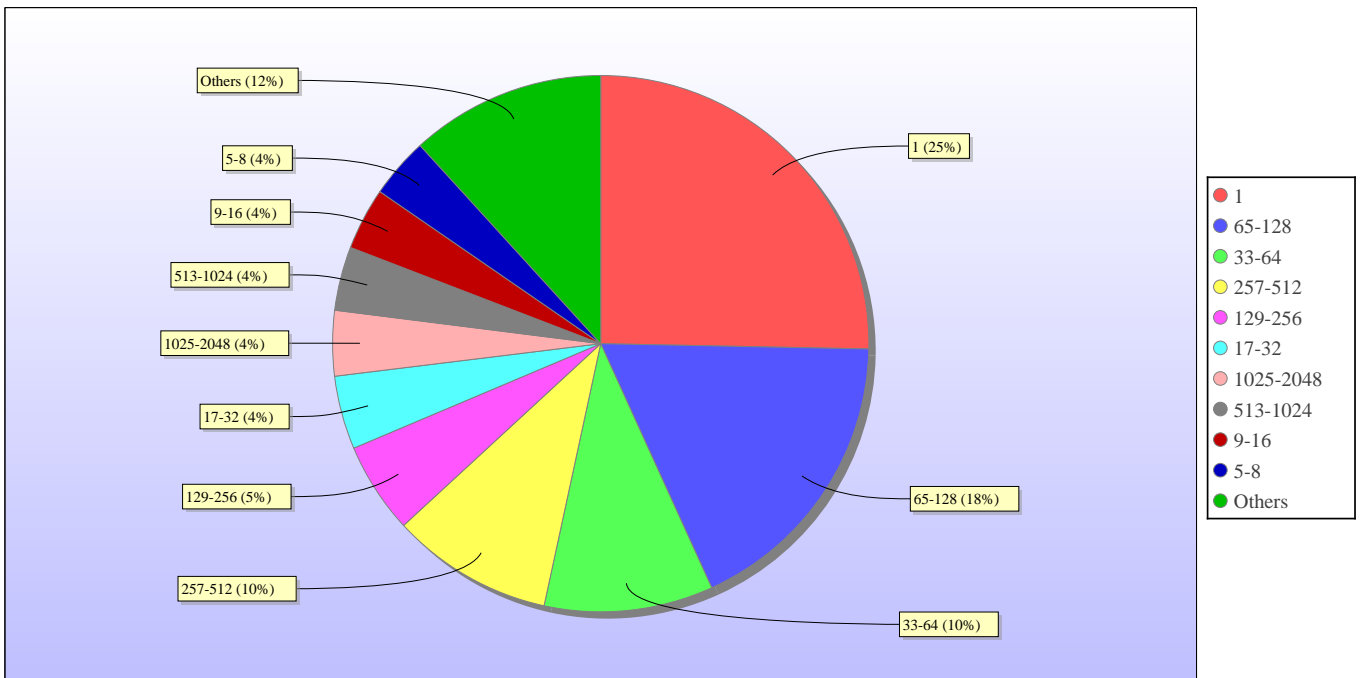
kAUs used by Size



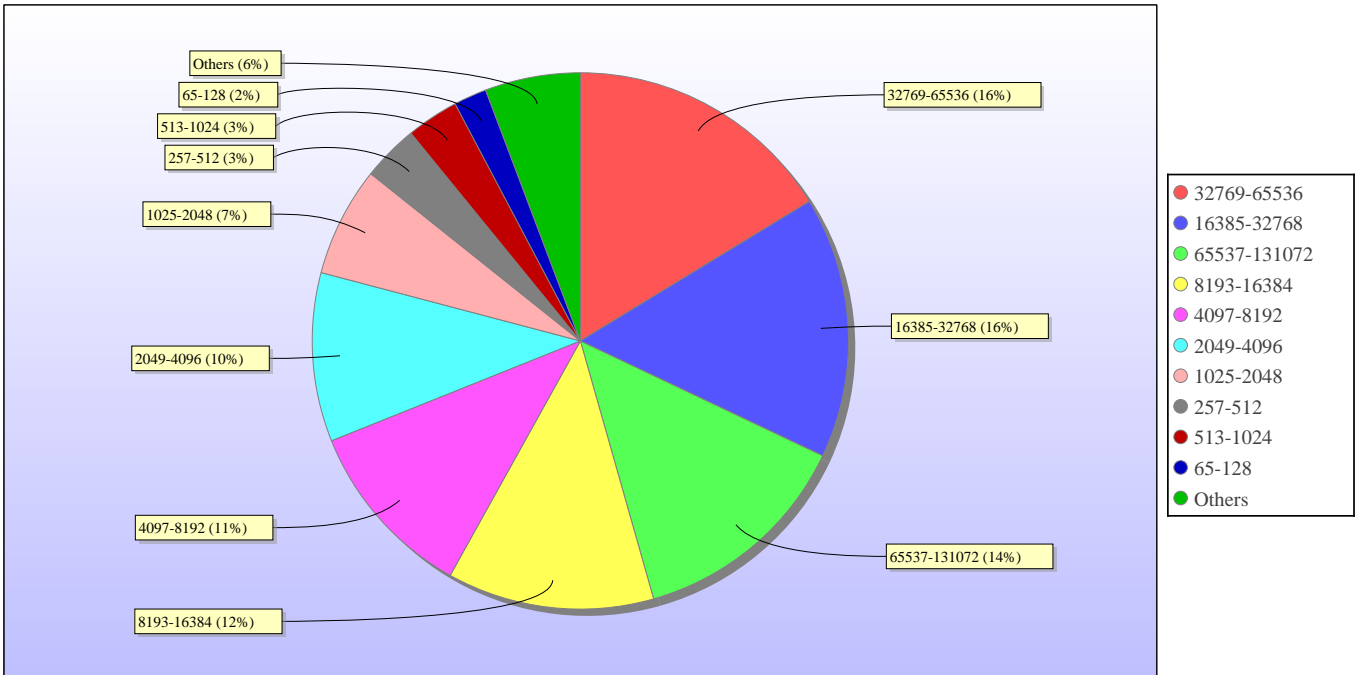
Jobs grouped by wall-clock-hours



kAUs used grouped by wall-clock-hours



Jobs grouped by core-hours

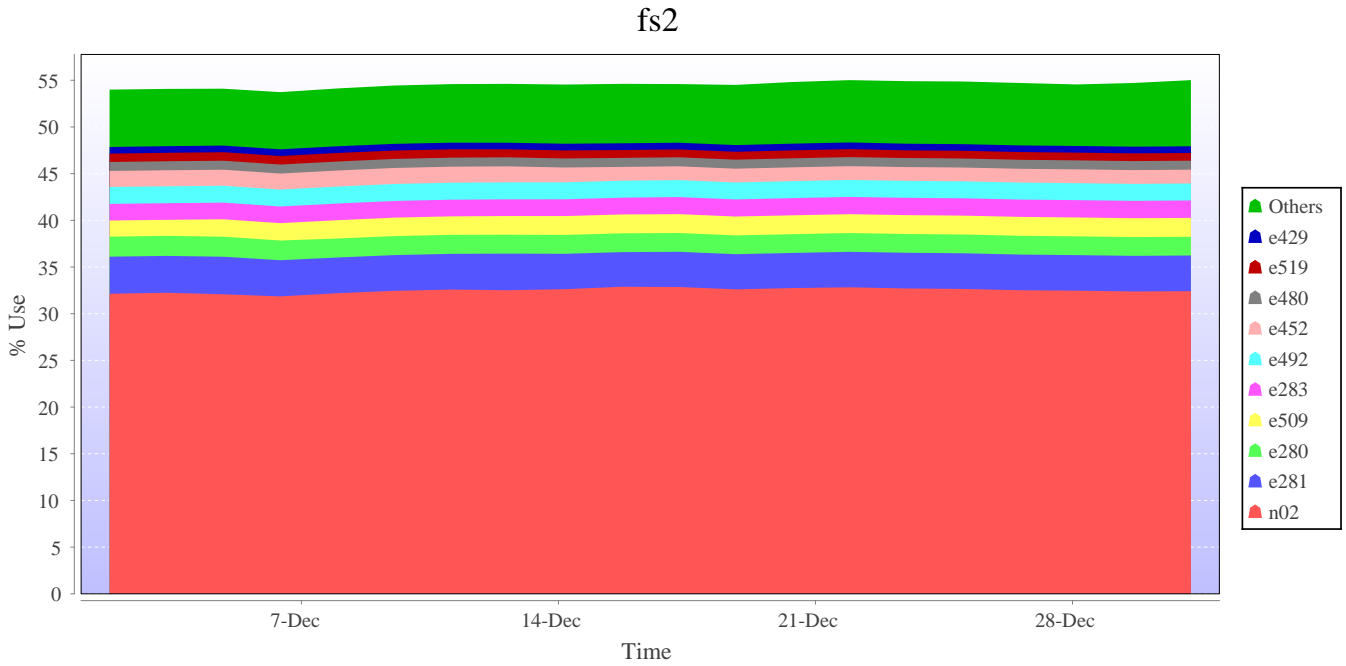


kAUs used grouped by core-hours

Disk usage

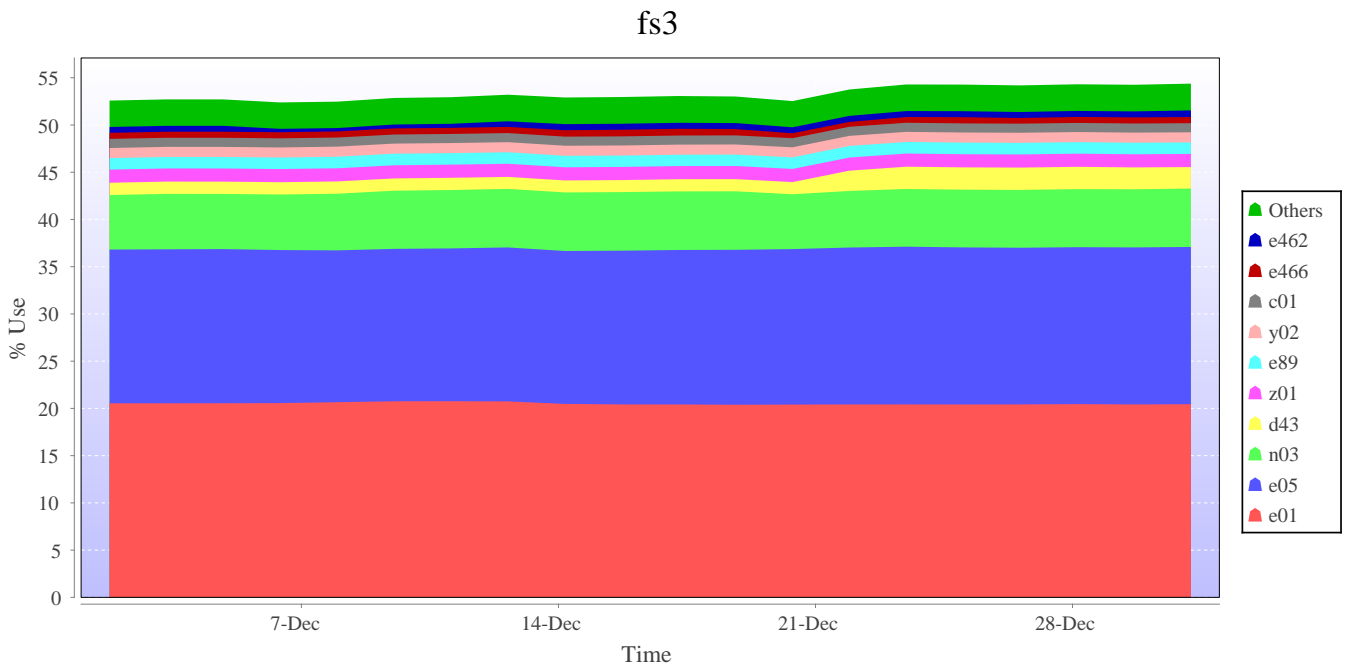
Disk usage for work (fs2)

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.



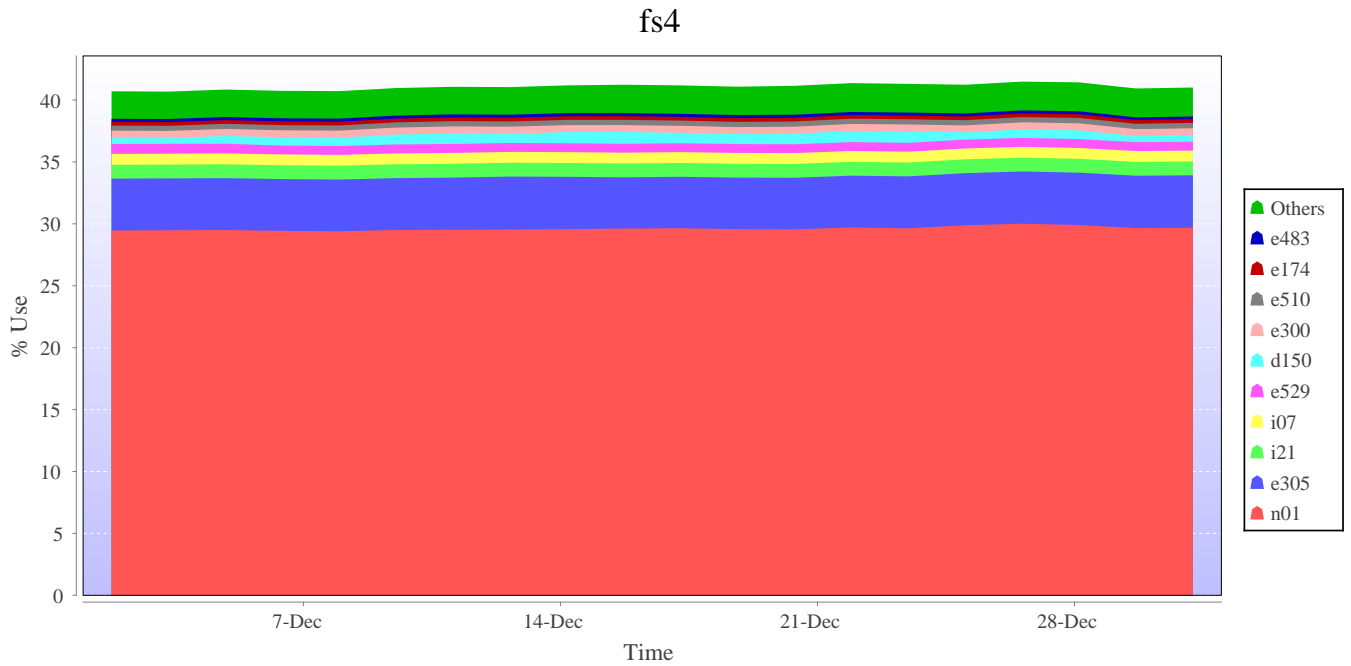
Disk usage for work (fs3)

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.



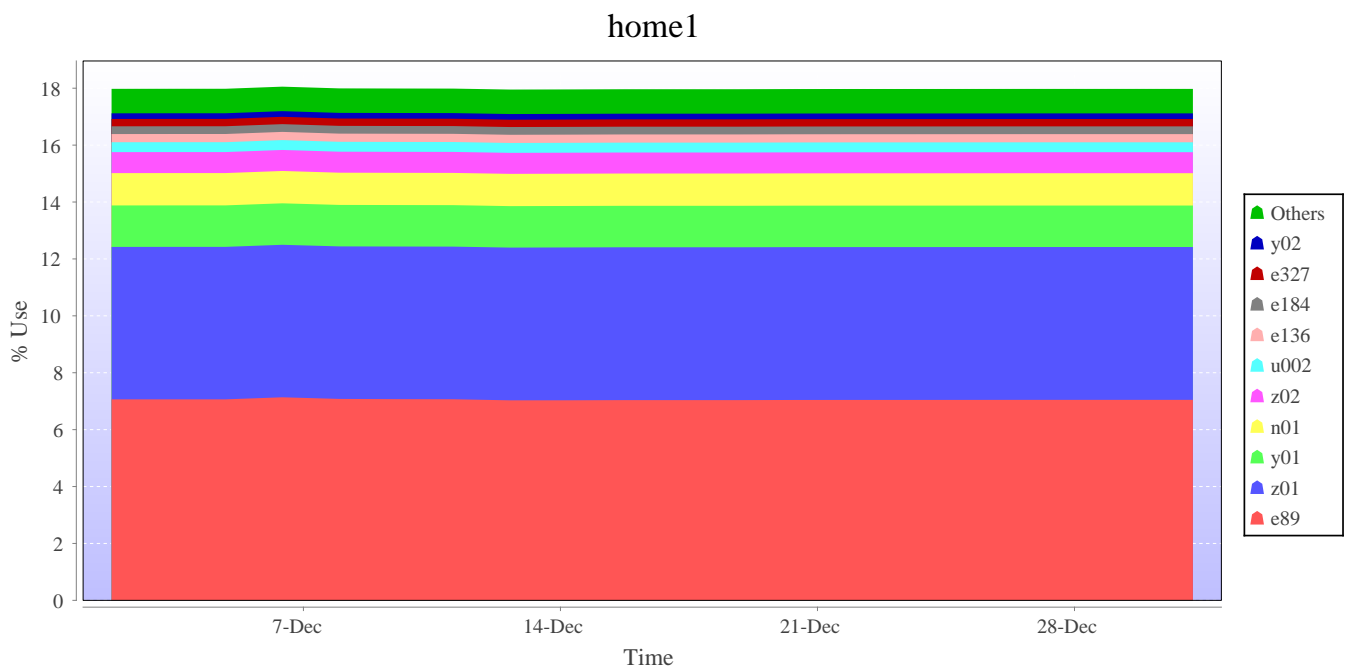
Disk usage for work (fs4)

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.



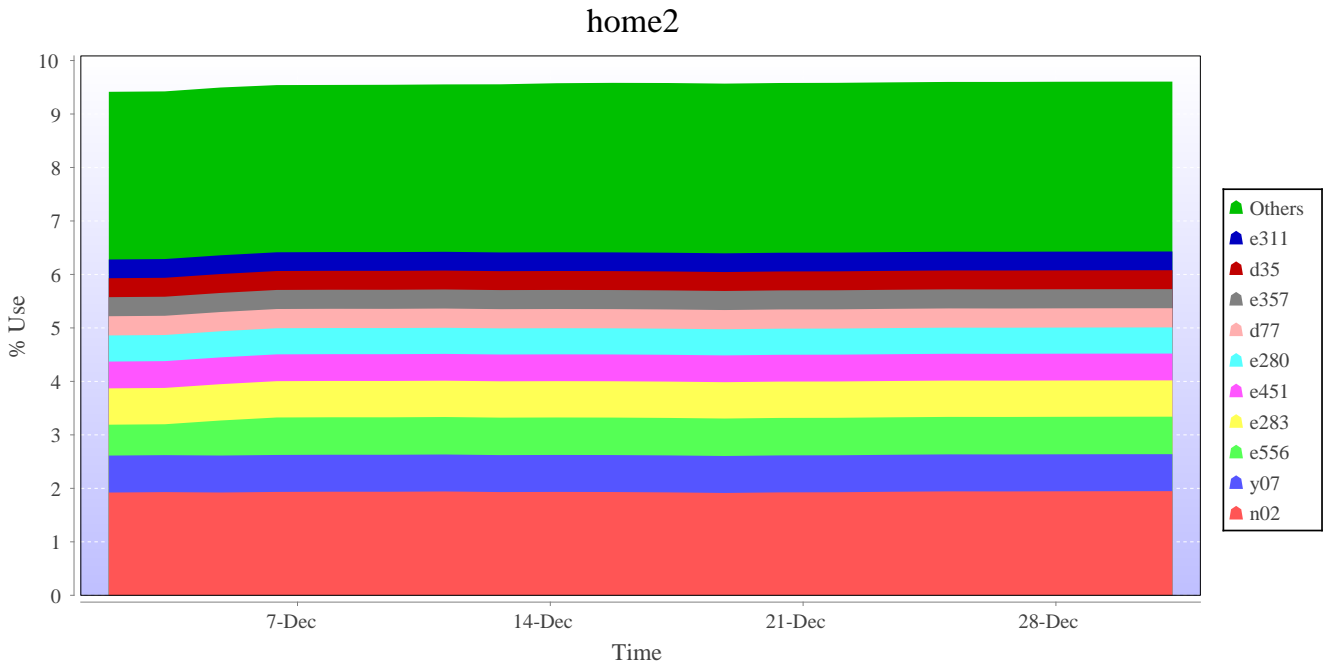
Disk usage for home (home1)

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.



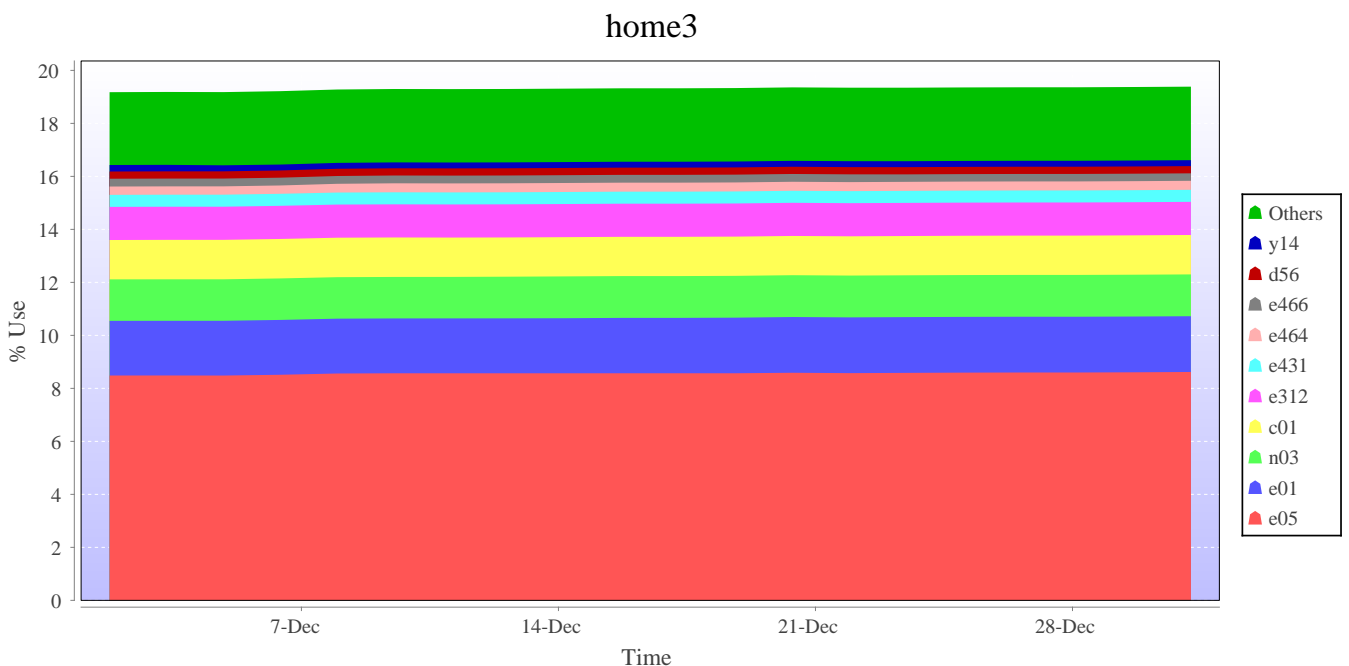
Disk usage for home (home2)

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.

