

Monthly Reporting

Report from 01 April 2019 to 30 April 2019

Report for Resource Pool XC on ARCHER

A total of 1,275,263.997 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.

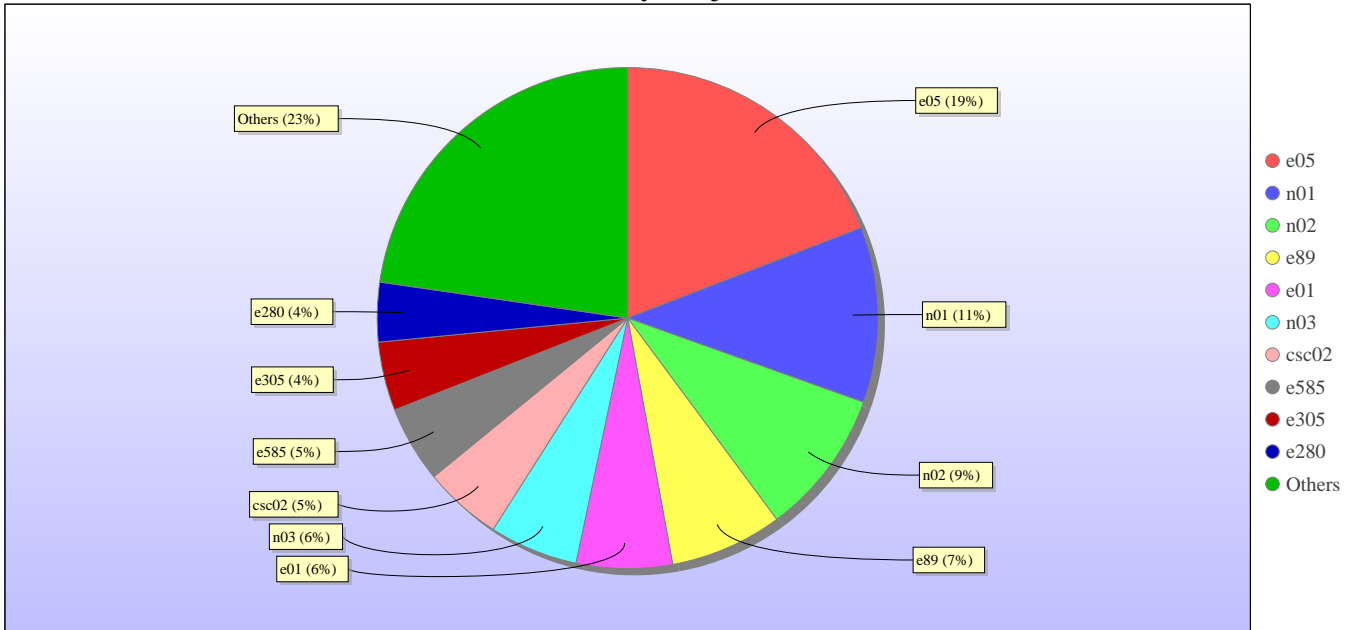
The (Allocation) column is the time allocated to the project, scaled according to the reporting period and shown as a fraction of the available resources. If this report period is a sub-period of the Allocation period then the SAFE calculates the Allocation for this sub-period based on a linear spend 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
e572	Leadership Awards	351	2,460.7	0.19%	2,617.7	0.21%	2,967.7	0.23%
c01	Class1a	903	2,503.9	0.20%	2,503.9	0.20%	6,133.4	0.48%
e341	Class1a	1	80.0	0.01%	80.0	0.01%	1,991.8	0.16%
e365	Class1a	0	0.0	0.00%	0.0	0.00%	2,300.8	0.18%
e403	Class1a	6	1,002.0	0.08%	1,002.0	0.08%	8,344.3	0.65%
e432	Class1a	199	8,263.9	0.65%	8,263.9	0.65%	7,969.2	0.62%
e448	Class1a	1,099	11,695.0	0.92%	11,699.4	0.92%	32,308.0	2.53%
e451	Class1a	170	8,577.6	0.67%	11,435.3	0.90%	3,664.4	0.29%
e514	Class1a	0	0.0	0.00%	0.0	0.00%	326.2	0.03%
e515	Class1a	0	0.0	0.00%	0.0	0.00%	3,315.7	0.26%
e517	Class1a	0	0.0	0.00%	0.0	0.00%	97.8	0.01%
e518	Class1a	19	3,019.0	0.24%	3,019.0	0.24%	737.7	0.06%
e519	Class1a	0	0.0	0.00%	0.0	0.00%	4,918.0	0.39%
e520	Class1a	0	0.0	0.00%	0.0	0.00%	2,379.6	0.19%
e523	Class1a	7	850.7	0.07%	1,683.9	0.13%	5,222.2	0.41%
e527	Class1a	46	748.5	0.06%	748.5	0.06%	1,823.6	0.14%
e530	Class1a	59	4,225.4	0.33%	4,225.4	0.33%	1,093.4	0.09%
e537	Class1a	0	0.0	0.00%	0.0	0.00%	2,990.8	0.23%
e558	Class1a	24	285.9	0.02%	286.1	0.02%	739.7	0.06%
e569	Class1a	0	0.0	0.00%	0.0	0.00%	1,893.7	0.15%
e571	Class1a	0	0.0	0.00%	0.0	0.00%	197.8	0.02%
e575	Class1a	99	3,940.3	0.31%	3,941.8	0.31%	2,772.4	0.22%
e580	Class1a	157	208.8	0.02%	208.8	0.02%	2,430.0	0.19%
e584	Class1a	0	0.0	0.00%	0.0	0.00%	2,652.3	0.21%
e588	Class1a	5	583.0	0.05%	583.0	0.05%	1,978.0	0.16%
e605	Class1a	27	275.1	0.02%	328.2	0.03%	1,026.1	0.08%
e606	Class1a	575	9,309.3	0.73%	9,309.3	0.73%	3,174.2	0.25%
e607	Class1a	21	1,888.9	0.15%	1,888.9	0.15%	5,737.7	0.45%
e608	Class1a	193	589.8	0.05%	1,098.5	0.09%	4,121.8	0.32%
e609	Class1a	168	624.5	0.05%	624.5	0.05%	18,196.7	1.43%
e610	Class1a	234	18,894.6	1.48%	18,894.8	1.48%	7,460.3	0.58%
e611	Class1a	19	933.4	0.07%	933.4	0.07%	1,077.6	0.08%
e613	Class1a	0	0.0	0.00%	0.0	0.00%	989.2	0.08%
e554	Class1b	0	0.0	0.00%	0.0	0.00%	248.7	0.02%
e01	Consortia	1,560	49,804.8	3.91%	69,299.9	5.43%	77,168.3	6.05%
e05	Consortia	8,719	171,799.2	13.47%	214,073.5	16.79%	179,959.4	14.11%
e89	Consortia	2,961	79,397.2	6.23%	81,314.7	6.38%	115,466.1	9.05%
e280	Consortia	3,057	42,386.8	3.32%	42,926.5	3.37%	53,046.1	4.16%
e281	Consortia	848	27,422.9	2.15%	29,240.8	2.29%	20,878.4	1.64%
e283	Consortia	1,046	17,009.8	1.33%	17,090.4	1.34%	12,891.4	1.01%
e305	Consortia	961	48,745.7	3.82%	49,687.1	3.90%	40,184.5	3.15%

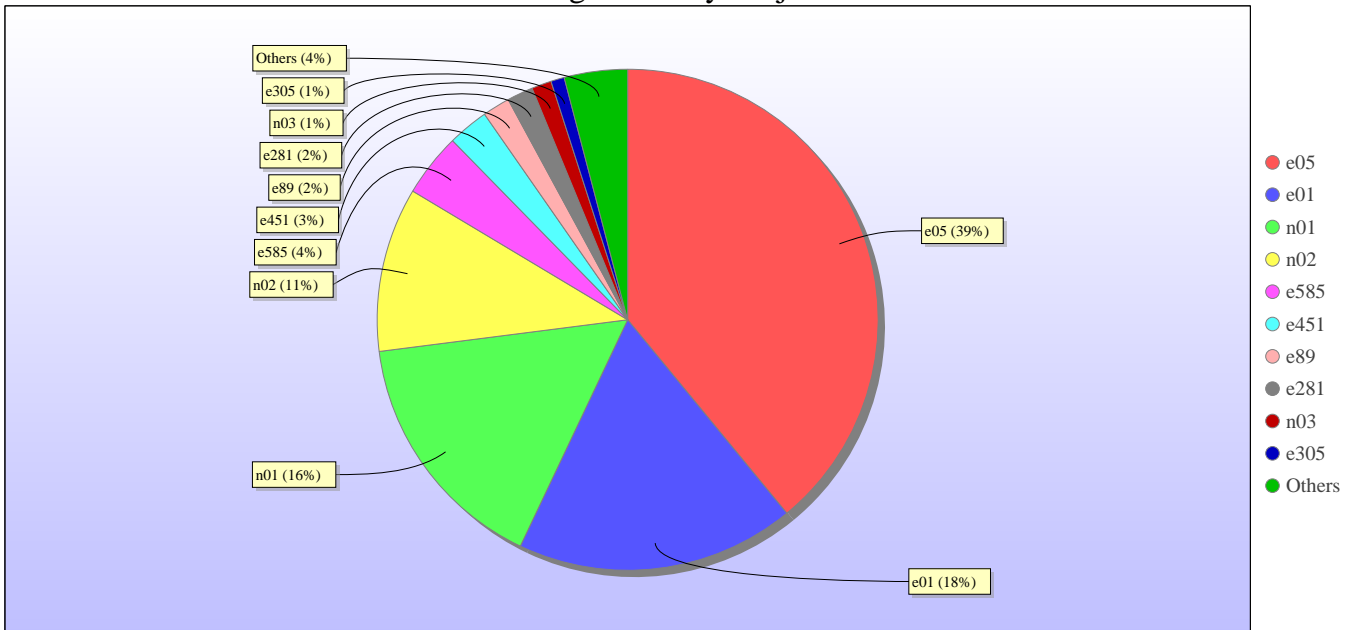
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e585	Consortia	749	50,838.6	3.99%	55,271.0	4.33%	28,688.5	2.25%
e348	Direct Access: ARCHER RAP	310	2,912.3	0.23%	2,912.3	0.23%	5,187.4	0.41%
e590	Direct Access: ARCHER RAP	165	2,333.6	0.18%	2,333.6	0.18%	3,921.6	0.31%
e593	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	3,730.1	0.29%
e595	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	3,282.0	0.26%
e596	Direct Access: ARCHER RAP	90	1,714.4	0.13%	1,714.4	0.13%	1,274.5	0.10%
e599	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	3,253.4	0.26%
e601	Direct Access: ARCHER RAP	39	5,409.3	0.42%	5,361.0	0.42%	4,595.5	0.36%
e602	Direct Access: ARCHER RAP	11	1,004.2	0.08%	1,004.2	0.08%	1,817.9	0.14%
e603	Direct Access: ARCHER RAP	3	0.8	0.00%	0.8	0.00%	3,029.9	0.24%
e614	Direct Access: ARCHER RAP	333	30,629.1	2.40%	30,629.1	2.40%	4,946.2	0.39%
e616	Direct Access: ARCHER RAP	4	5.4	0.00%	5.4	0.00%	1,289.2	0.10%
e617	Direct Access: ARCHER RAP	10	7,986.5	0.63%	7,986.5	0.63%	7,374.5	0.58%
e618	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	2,272.4	0.18%
e619	Direct Access: ARCHER RAP	27	27.4	0.00%	27.4	0.00%	916.1	0.07%
e620	Direct Access: ARCHER RAP	76	6,192.6	0.49%	6,197.2	0.49%	6,452.9	0.51%
e622	Direct Access: ARCHER RAP	109	7,073.3	0.55%	7,085.3	0.56%	3,272.3	0.26%
e582	Instant Access	65	1,950.3	0.15%	1,950.3	0.15%	761.7	0.06%
e623	Instant Access	9	5.4	0.00%	5.4	0.00%	195.9	0.02%
e624	Instant Access	0	0.0	0.00%	0.0	0.00%	200.0	0.02%
e625	Instant Access	25	3.2	0.00%	3.2	0.00%	196.0	0.02%
e626	Instant Access	0	0.0	0.00%	0.0	0.00%	196.8	0.02%
e628	Instant Access	126	191.0	0.01%	191.0	0.01%	104.9	0.01%
e629	Instant Access	152	190.9	0.01%	190.9	0.01%	72.1	0.01%
e632	Instant Access	0	0.0	0.00%	0.0	0.00%	12.9	0.00%
e633	Instant Access	0	0.0	0.00%	0.0	0.00%	13.1	0.00%
csc01	Research	0	0.0	0.00%	0.0	0.00%	122.4	0.01%
ecse1321	eCSE	0	0.0	0.00%	0.0	0.00%	19.3	0.00%
e573	Training	165	995.5	0.08%	995.5	0.08%	1,855.8	0.15%
e589	Training	33	501.2	0.04%	505.9	0.04%	2,950.8	0.23%
e604	Training	73	308.2	0.02%	1,202.5	0.09%	1,847.9	0.14%
e612	Training	21	313.6	0.02%	313.6	0.02%	1,781.6	0.14%
y16	Service	0	0.0	0.00%	0.0	0.00%	137.0	0.01%
z17	Service	0	0.0	0.00%	0.0	0.00%	3,315.7	0.26%
EPSRC Total		26,129	638,113.1	50.04%	714,895.4	56.06%	741,963.8	58.18%
n01	Consortia	6,144	110,085.6	8.63%	126,823.6	9.94%	81,967.2	6.43%
n02	Consortia	24,368	94,040.5	7.37%	105,228.9	8.25%	163,934.4	12.85%
n03	Consortia	1,968	62,519.0	4.90%	63,906.8	5.01%	81,967.2	6.43%
NERC Total		32,480	266,645.2	20.91%	295,959.3	23.21%	327,868.9	25.71%
e621	Leadership Awards	931	8,311.5	0.65%	8,311.5	0.65%	3,895.9	0.31%
e568	Research	0	0.0	0.00%	0.0	0.00%	3,439.2	0.27%
BBSRC Total		931	8,311.5	0.65%	8,311.5	0.65%	7,335.2	0.58%
pr1u0002	Class1a	0	0.0	0.00%	0.0	0.00%	164.4	0.01%
pr1u0001	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	0.4	0.00%
pr1u1455	DECI: EXEC	25	647.5	0.05%	647.5	0.05%	758.8	0.06%
PRACE Total		25	647.5	0.05%	647.5	0.05%	923.5	0.07%
ecse0910	eCSE	72	10.8	0.00%	10.8	0.00%	49.4	0.00%

Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
ecse1012	eCSE	9	0.3	0.00%	0.3	0.00%	35.6	0.00%
ecse1303	eCSE	0	0.0	0.00%	0.0	0.00%	46.3	0.00%
ecse1307	eCSE	0	0.0	0.00%	0.0	0.00%	46.3	0.00%
ecse1320	eCSE	77	0.0	0.00%	0.0	0.00%	43.6	0.00%
eCSE Total		158	11.2	0.00%	11.2	0.00%	221.2	0.02%
d43	ECDF	0	0.0	0.00%	0.0	0.00%	821.9	0.06%
d56	Research	125	3,048.5	0.24%	3,048.5	0.24%	6,631.4	0.52%
d67	Research	43	203.9	0.02%	203.9	0.02%	164.4	0.01%
d87	Research	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
d88	Research	1	0.0	0.00%	0.0	0.00%	72.4	0.01%
d114	Research	991	7,789.4	0.61%	8,090.4	0.63%	10,949.2	0.86%
d118	Research	55	26.7	0.00%	26.7	0.00%	82.2	0.01%
d137	Research	314	2,410.9	0.19%	2,410.9	0.19%	2,465.8	0.19%
d142	Research	114	320.4	0.03%	357.1	0.03%	1,397.3	0.11%
d143	Research	156	444.9	0.03%	444.9	0.03%	2,459.0	0.19%
d149	Research	431	1,379.0	0.11%	1,619.2	0.13%	379.7	0.03%
d150	Research	264	6,665.2	0.52%	6,665.2	0.52%	7,957.6	0.62%
d155	Research	881	13,396.7	1.05%	13,496.1	1.06%	1,369.9	0.11%
d166	Research	55	1,564.7	0.12%	1,564.7	0.12%	669.9	0.05%
d170	Research	36	0.1	0.00%	0.1	0.00%	2.4	0.00%
d426	Research	0	0.0	0.00%	0.0	0.00%	82.2	0.01%
d153	Industrial	427	534.0	0.04%	534.4	0.04%	986.3	0.08%
d168	Industrial	0	0.0	0.00%	0.0	0.00%	82.2	0.01%
i01	Industrial	0	0.0	0.00%	0.0	0.00%	93.8	0.01%
i18	Industrial	20	2,327.3	0.18%	2,327.3	0.18%	2,838.1	0.22%
i21	Industrial	3	362.3	0.03%	241.6	0.02%	8,219.2	0.64%
i228	Industrial	0	0.0	0.00%	0.0	0.00%	67.7	0.01%
i232	Industrial	0	0.0	0.00%	0.0	0.00%	123.3	0.01%
i234	Industrial	0	0.0	0.00%	0.0	0.00%	89.6	0.01%
x08	Industrial	0	0.0	0.00%	0.0	0.00%	821.9	0.06%
d74	Training	1,102	482.3	0.04%	482.3	0.04%	164.4	0.01%
d104	Training	375	191.3	0.02%	191.3	0.02%	109.9	0.01%
d167	Training	13	0.6	0.00%	0.6	0.00%	164.4	0.01%
d131	Service	64	71.6	0.01%	71.6	0.01%	246.6	0.02%
d134	Service	3	1.8	0.00%	1.8	0.00%	8.2	0.00%
d425	Service	0	0.0	0.00%	0.0	0.00%	109.9	0.01%
y01	Service	0	0.0	0.00%	0.0	0.00%	8.2	0.00%
y02	Service	4	0.3	0.00%	0.3	0.00%	82.2	0.01%
y07	Service	85	18.4	0.00%	19.8	0.00%	82.0	0.01%
y21	Service	0	0.0	0.00%	0.0	0.00%	411.0	0.03%
z02	Service	0	0.0	0.00%	0.0	0.00%	4.1	0.00%
z99	Service	23	0.2	0.00%	0.2	0.00%	8.2	0.00%
d169	UoE Access	0	0.0	0.00%	0.0	0.00%	2,465.8	0.19%
DirectorsTime Total		5,585	41,240.6	3.23%	41,799.0	3.28%	52,692.0	4.13%
y14	Training	4,339	1,409.0	0.11%	944.6	0.07%	575.3	0.05%
z19	Service	318	54.9	0.00%	55.1	0.00%	4,109.6	0.32%
CSE Total		4,657	1,463.9	0.11%	999.6	0.08%	4,684.9	0.37%
csc02	Research	688	56,199.6	4.41%	56,736.7	4.45%	108,000.0	8.47%
CSC Total		688	56,199.6	4.41%	56,736.7	4.45%	108,000.0	8.47%
w17	Service	0	0.0	0.00%	0.0	0.00%	131.1	0.01%
w20	Service	0	0.0	0.00%	0.0	0.00%	16.2	0.00%
Internal Total		0	0.0	0.00%	0.0	0.00%	147.4	0.01%
Total		70,653	1,012,632.5	79.41%	1,119,360.1	87.77%	1,243,836.9	97.54%

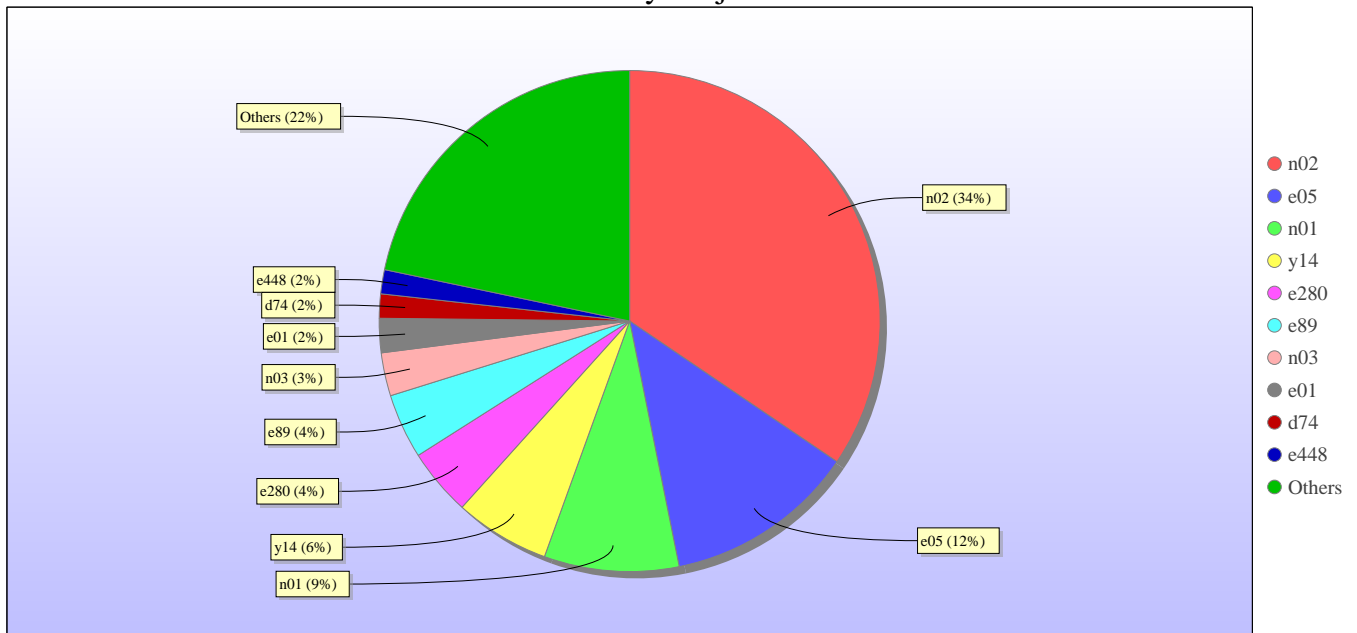
Use by Project



Uncharged Use by Project



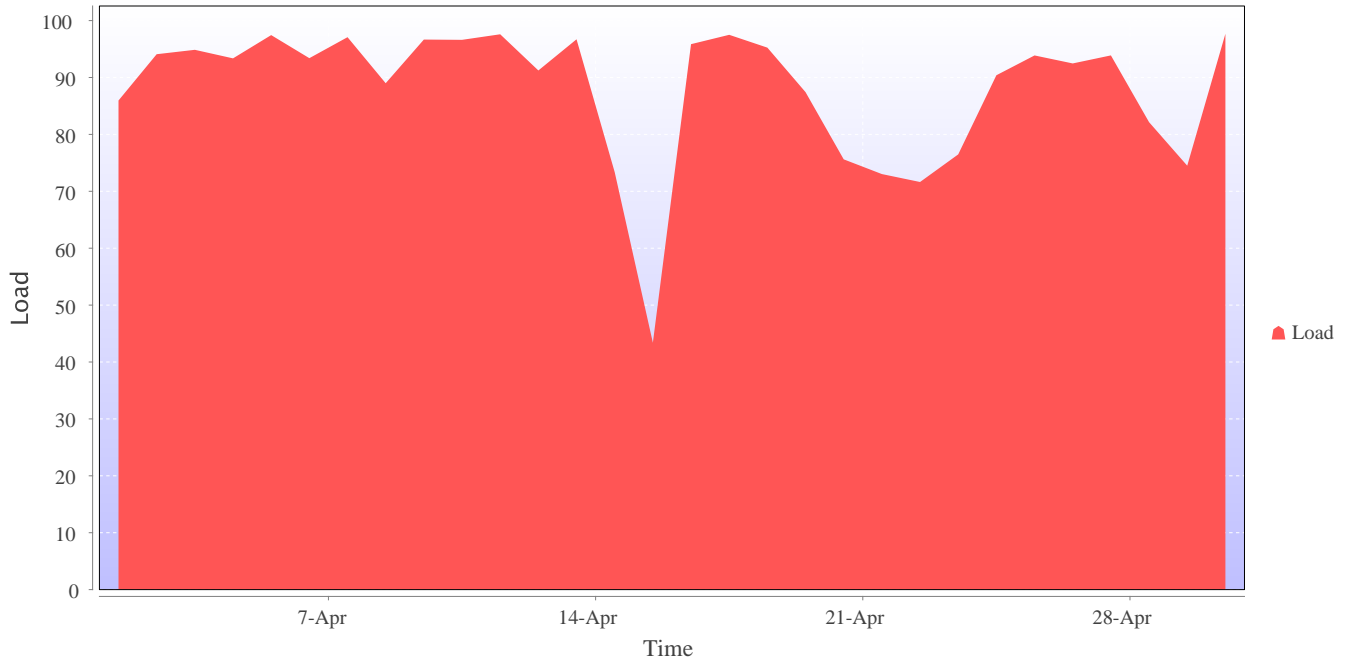
Jobs by Project



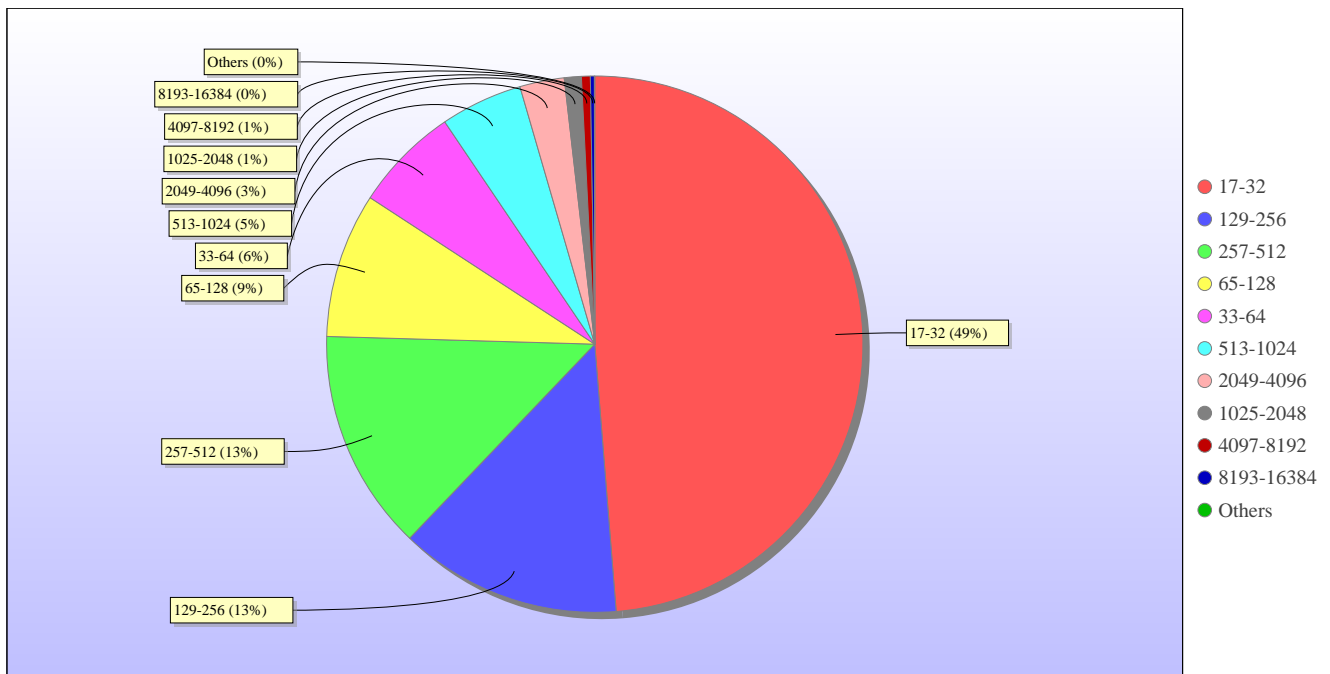
kAUs (by Size)

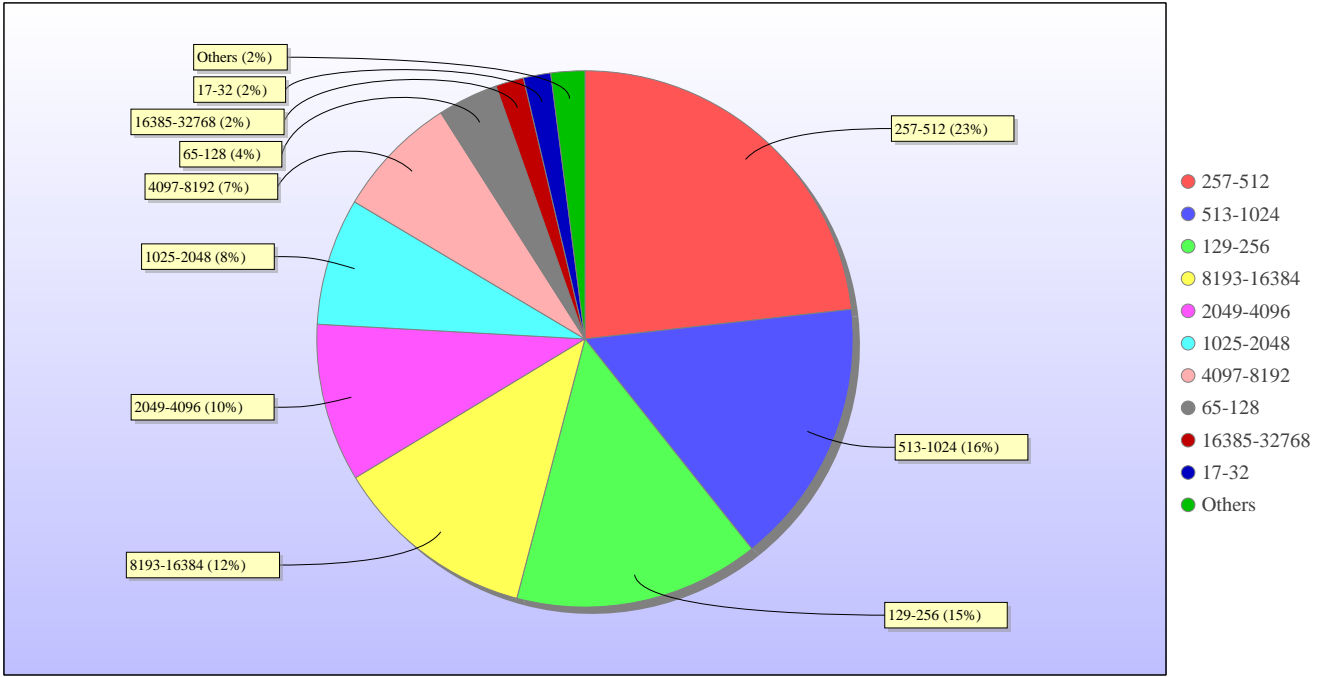
Size	kAUs	Number of Jobs
17-32	18,039.923	34,408
33-64	12,144.517	4,487
65-128	39,769.255	6,170
129-256	162,579.775	9,463
257-512	251,777.73	9,414
513-1024	165,919.687	3,493
1025-2048	80,814.659	723
2049-4096	94,201.138	1,893
4097-8192	59,361.002	377
8193-16384	93,939.658	170
16385-32768	18,840.965	14
32769-65536	10,598.6	2

Load plots

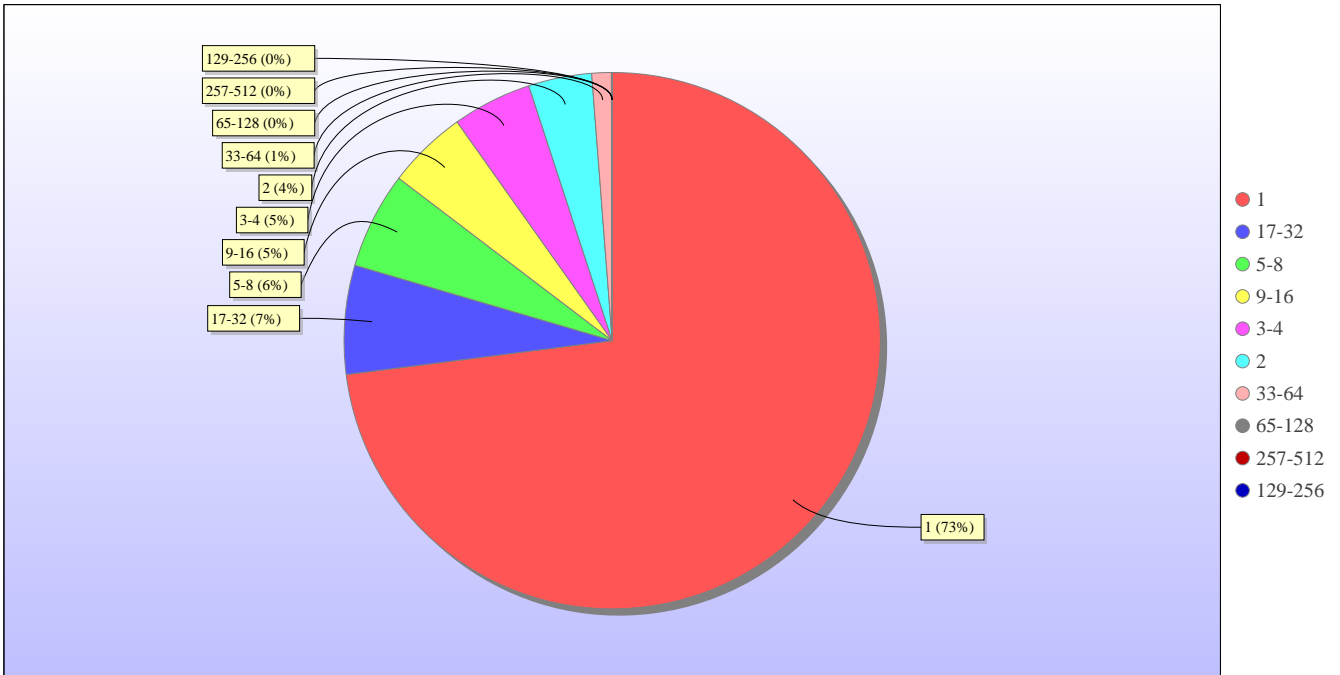


Percentage load on machine

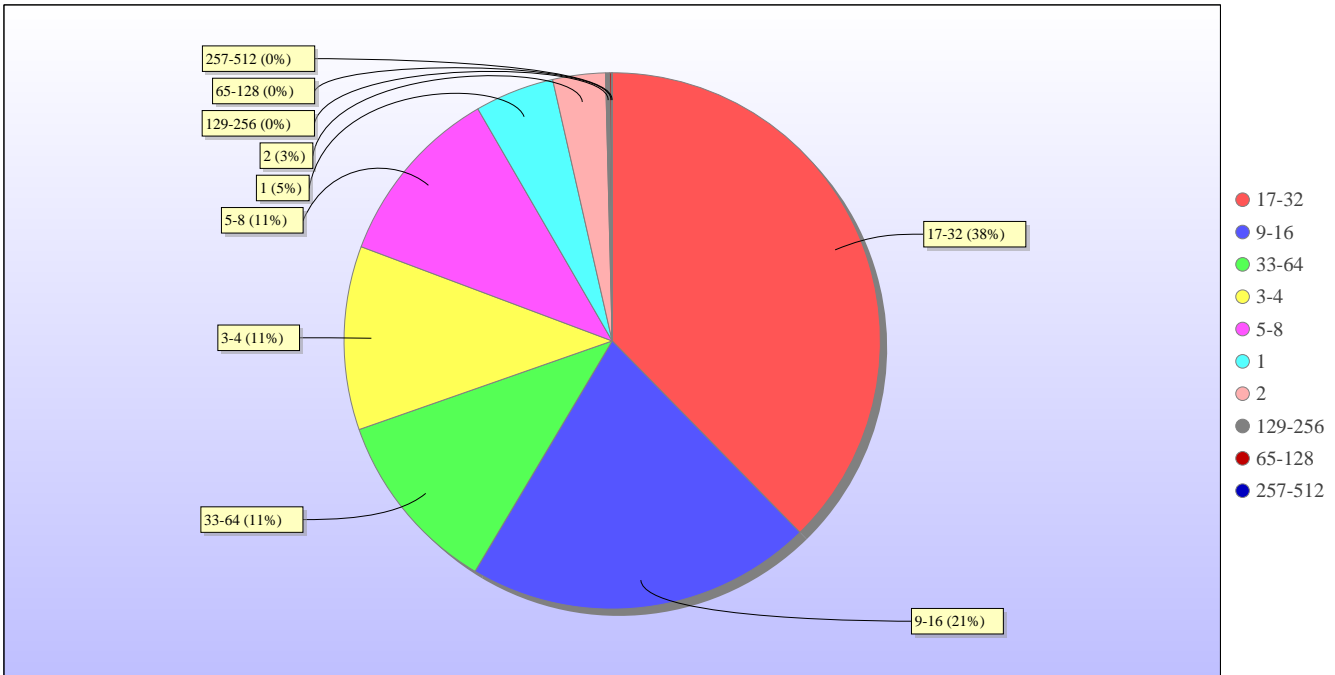




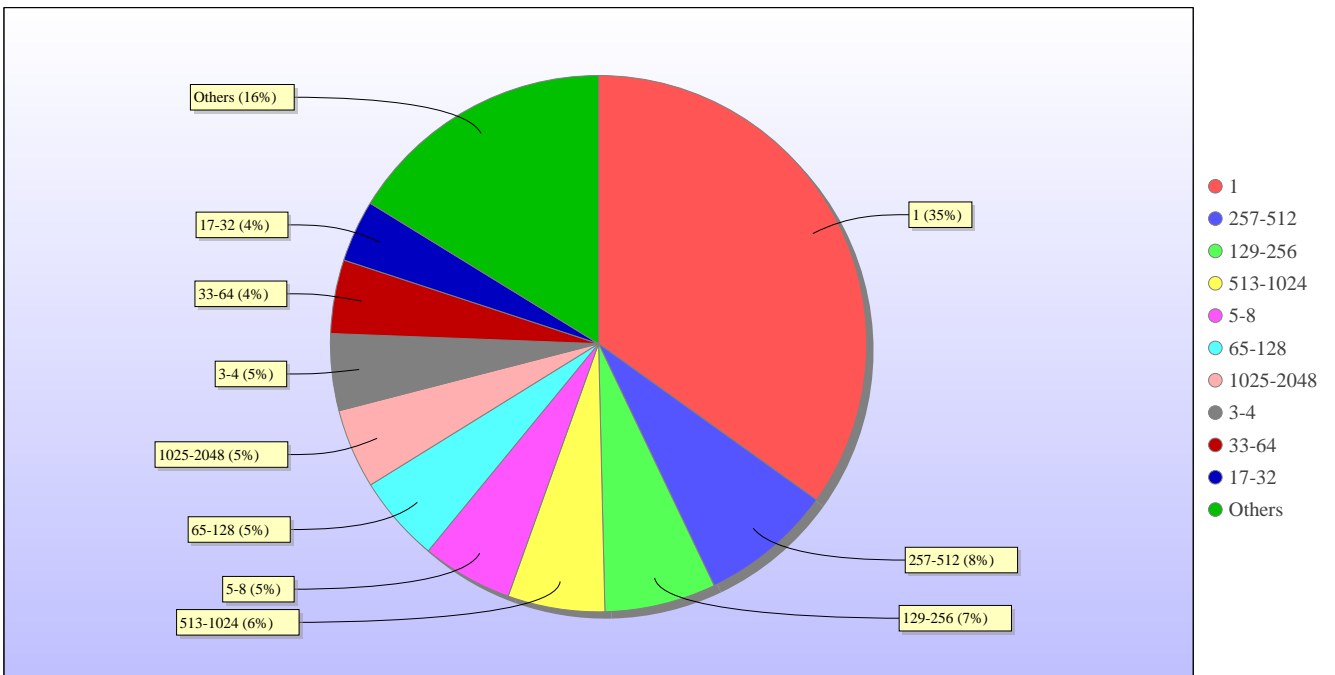
kAUs used by Size



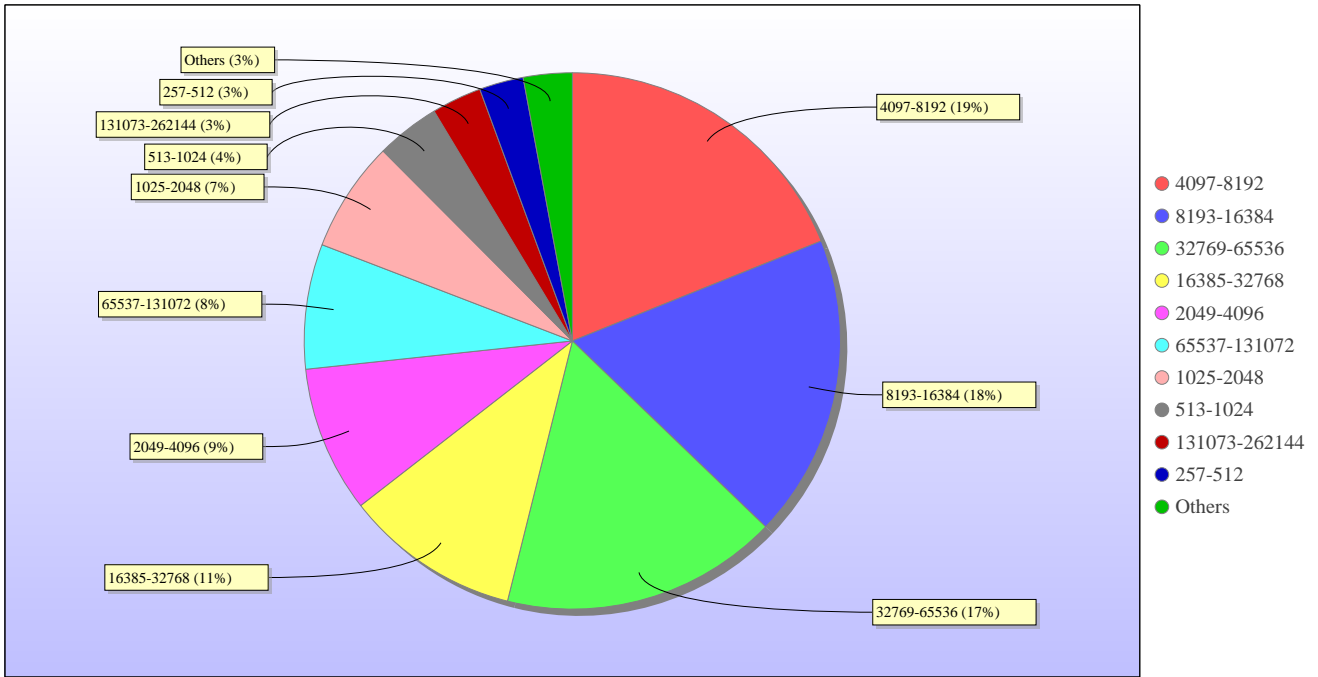
Jobs grouped by wall-clock-hours



kAUs used grouped by wall-clock-hours



Jobs grouped by core-hours

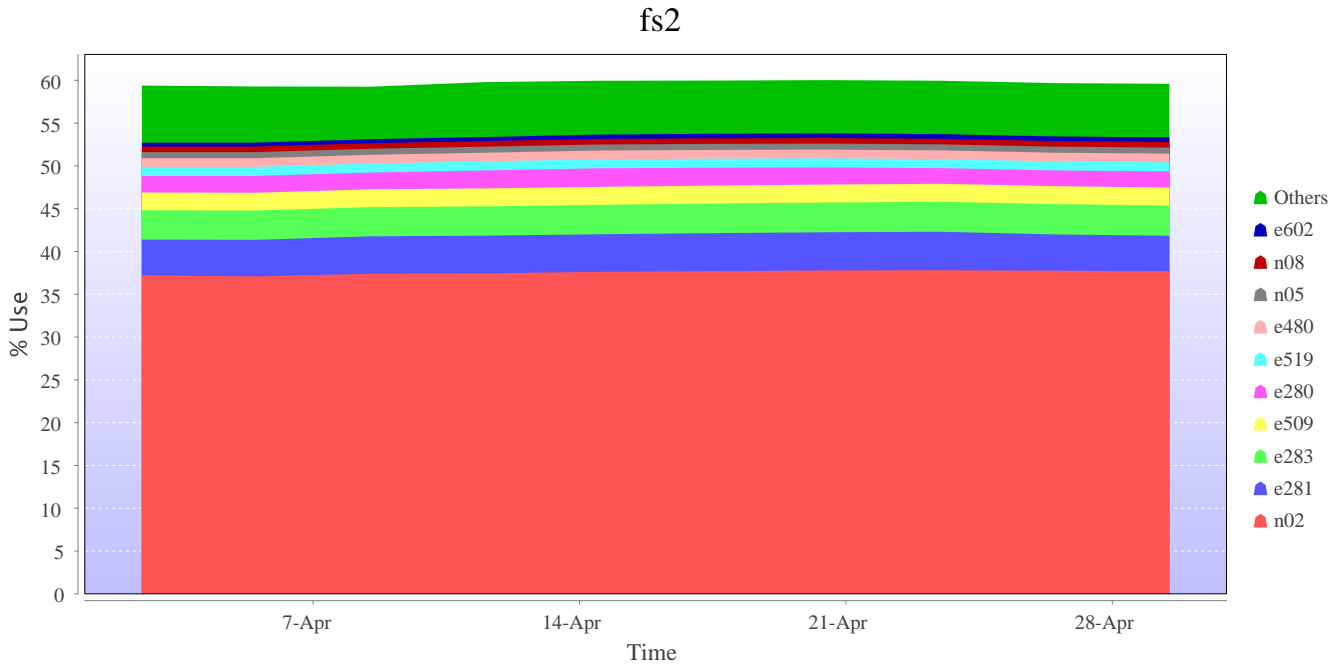


kAUs used grouped by core-hours

Disk usage

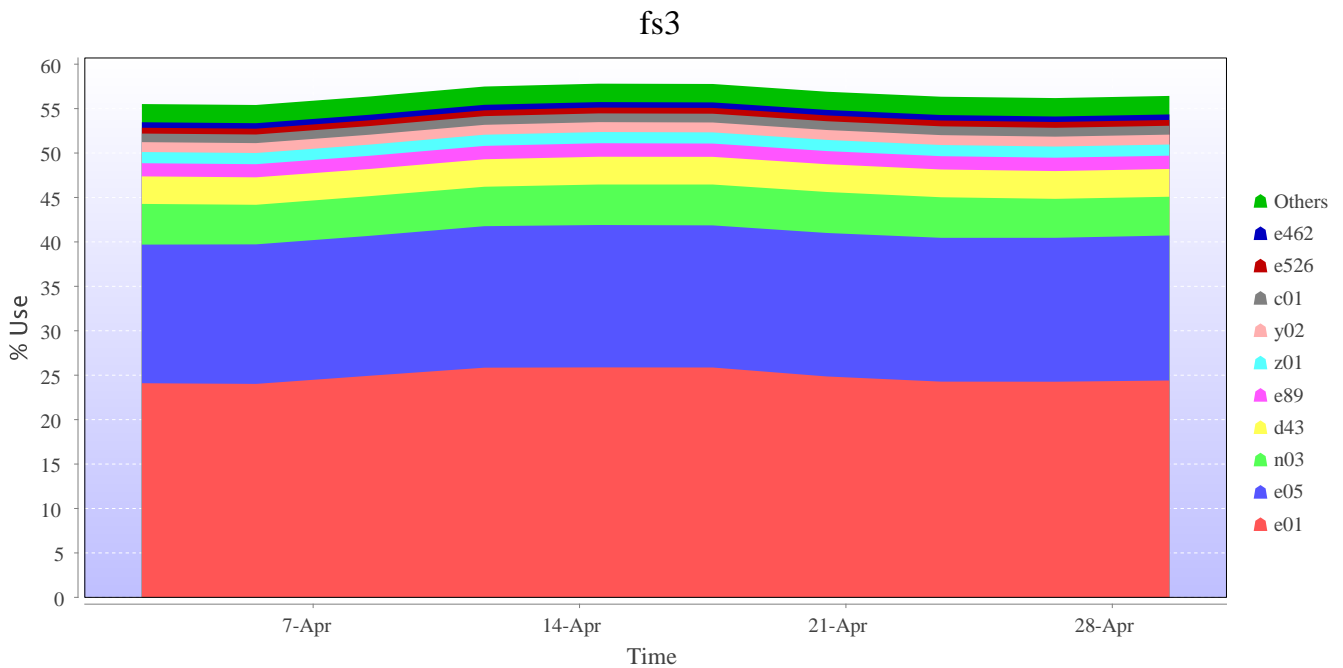
Disk usage for work (fs2)

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.



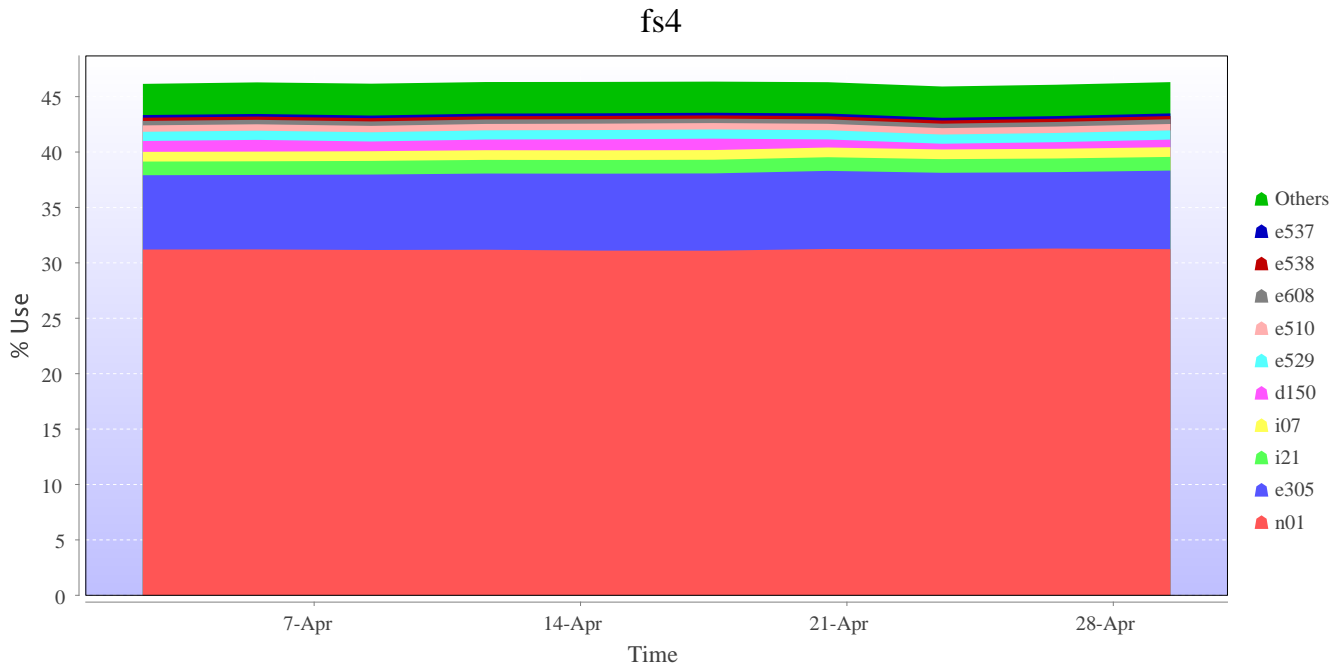
Disk usage for work (fs3)

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.



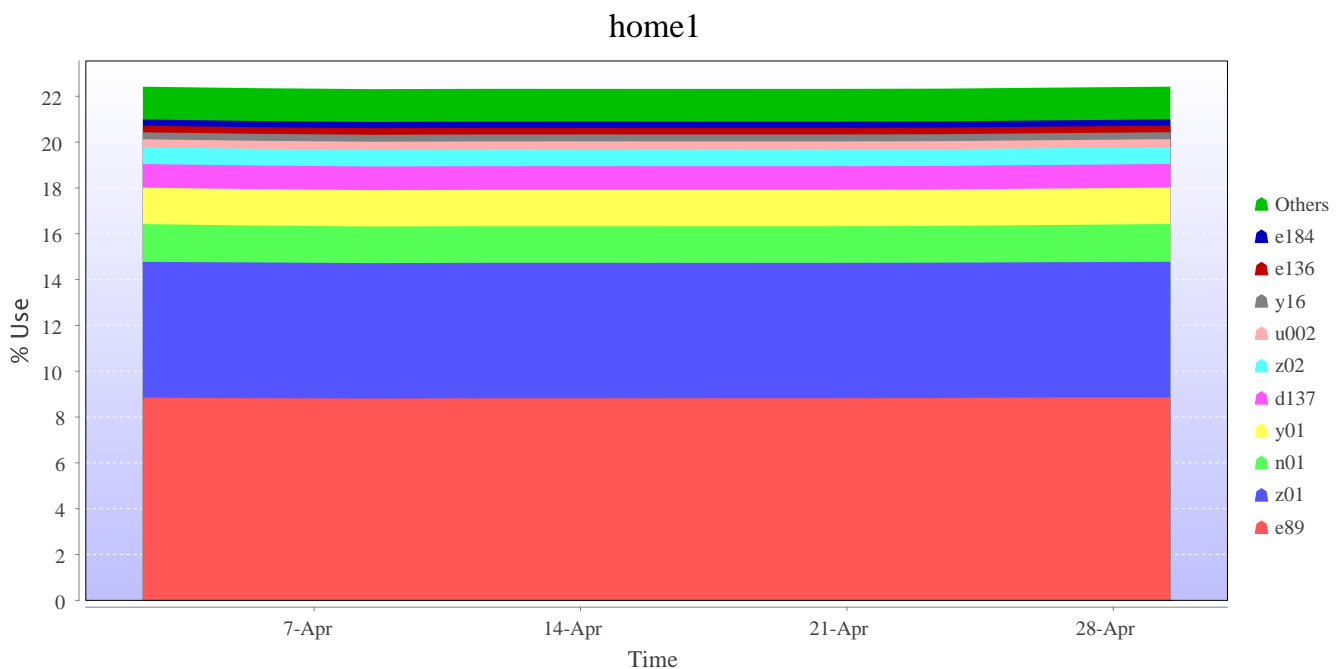
Disk usage for work (fs4)

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.



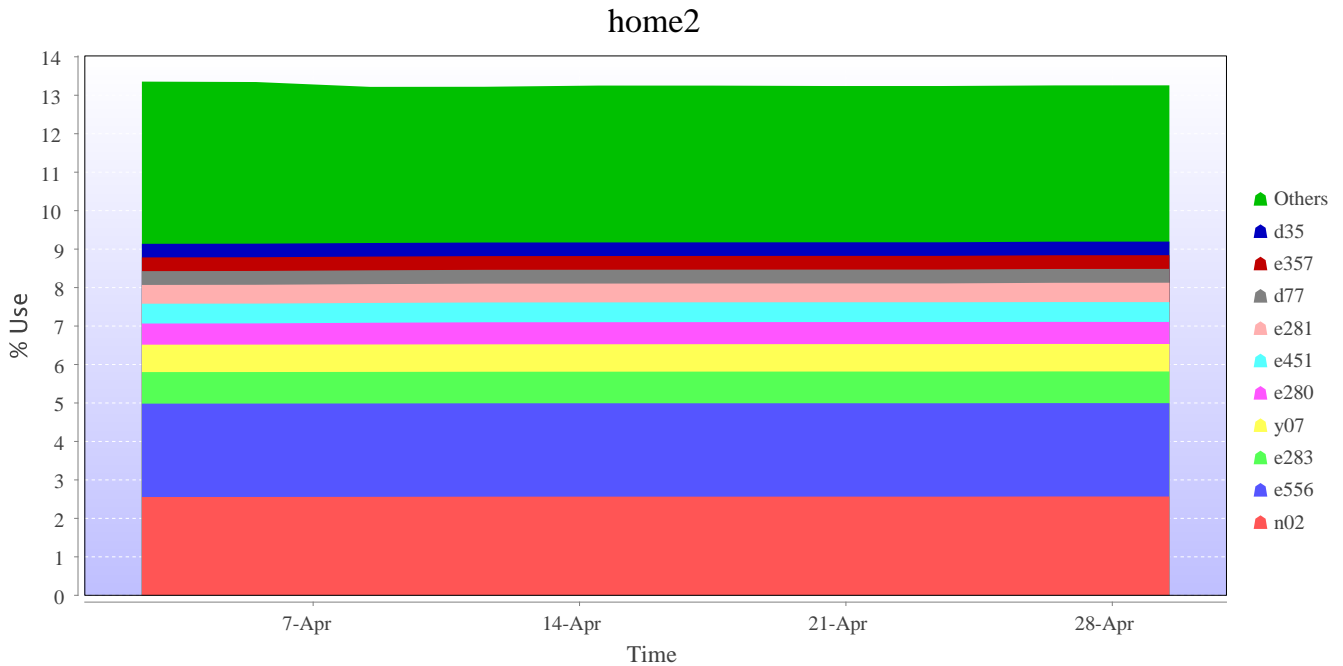
Disk usage for home (home1)

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.



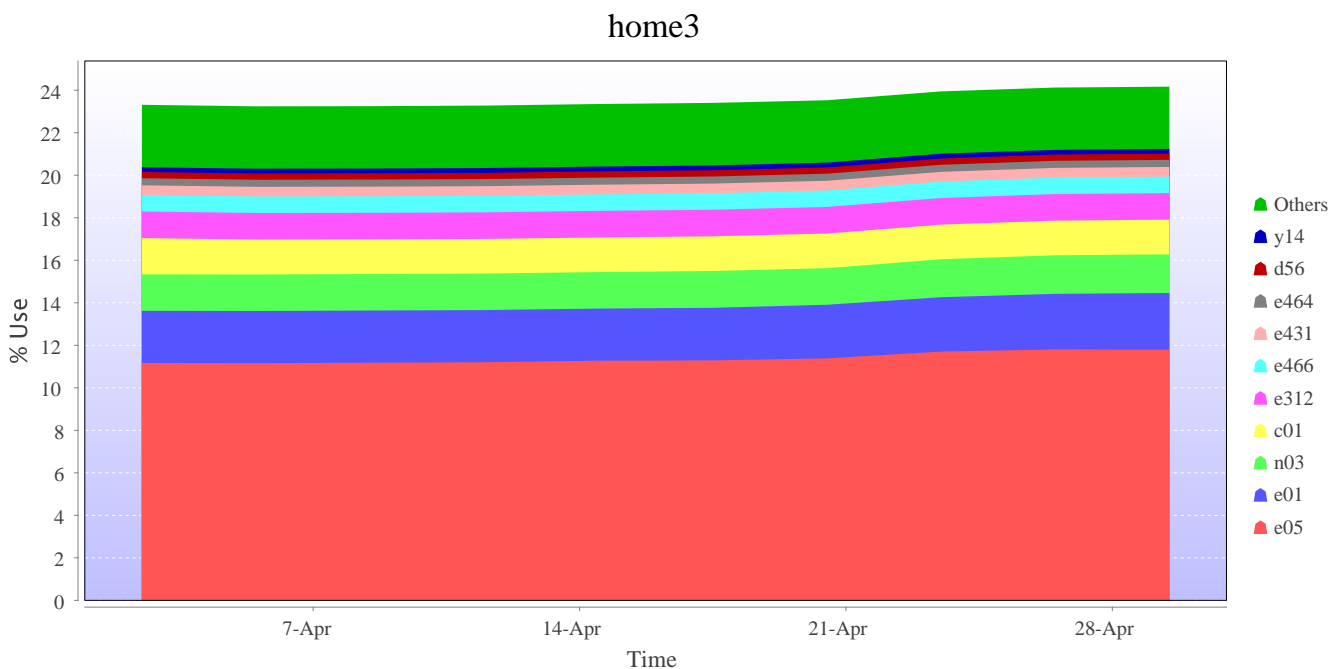
Disk usage for home (home2)

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.

