

# Monthly Reporting

## Report from 01 February 2023 to 28 February 2023

### Report for Resource Pool Archer2 on archer2

A total of 3,929,856 CUs 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.

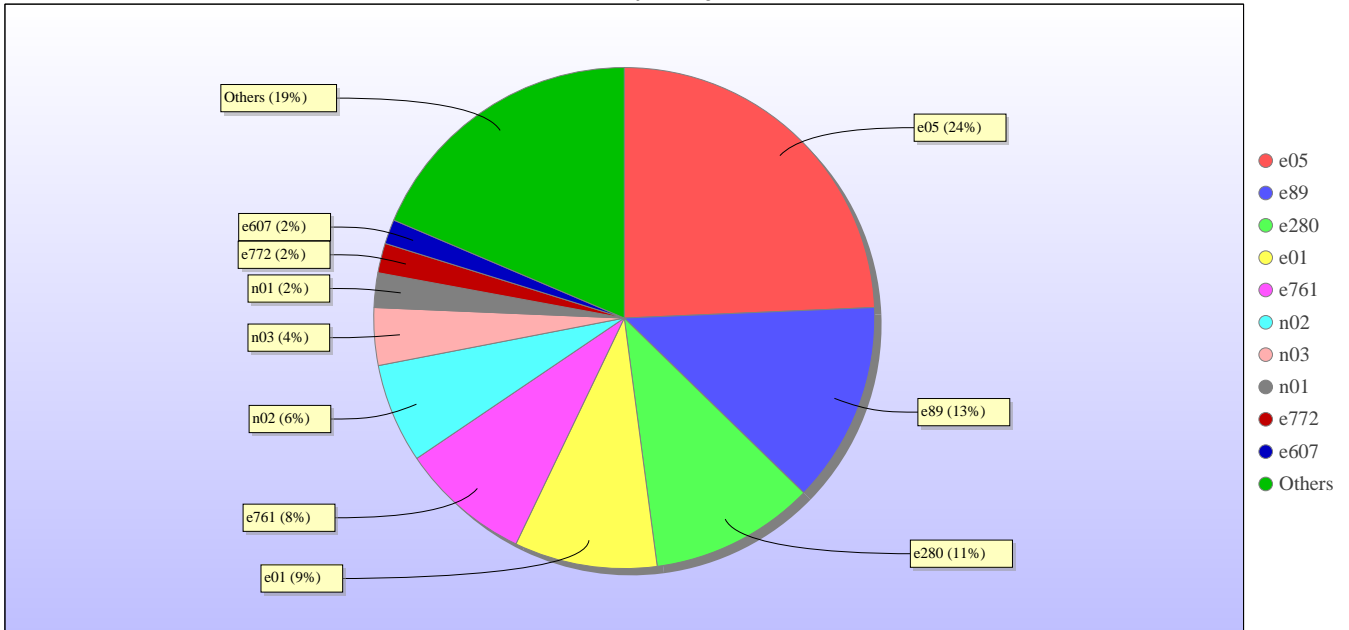
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e572	Leadership Awards	1,044	1,831.4	0.05%	2,172.8	0.06%	1,933.3	0.05%
e645	Leadership Awards	20	772.5	0.02%	772.5	0.02%	5,334.5	0.14%
e684	Leadership Awards	238	1,074.1	0.03%	1,091.7	0.03%	1,365.3	0.03%
e787	Leadership Awards	0	0.0	0.00%	0.0	0.00%	426.7	0.01%
e683	Pioneer Projects	11,772	30,580.8	0.78%	30,612.4	0.78%	12,873.7	0.33%
e685	Pioneer Projects	656	27,291.7	0.69%	32,483.1	0.83%	10,367.0	0.26%
e686	Pioneer Projects	1,699	10,484.0	0.27%	32,269.0	0.82%	17,020.5	0.43%
e687	Pioneer Projects	194	3,595.8	0.09%	3,595.8	0.09%	20,177.0	0.51%
e688	Pioneer Projects	152	19,766.3	0.50%	21,311.3	0.54%	30,752.9	0.78%
e689	Pioneer Projects	55	28.7	0.00%	28.7	0.00%	21,353.0	0.54%
e690	Pioneer Projects	105	396.6	0.01%	1,880.2	0.05%	23,209.8	0.59%
e691	Pioneer Projects	72	51,562.2	1.31%	51,604.4	1.31%	23,662.8	0.60%
e692	Pioneer Projects	46	1,385.1	0.04%	1,385.1	0.04%	17,862.2	0.45%
c01	Class1a	596	10,678.2	0.27%	10,679.9	0.27%	24,692.3	0.63%
e348	Class1a	1,657	5,381.3	0.14%	5,422.1	0.14%	12,966.5	0.33%
e575	Class1a	776	1,601.2	0.04%	1,601.2	0.04%	3,093.2	0.08%
e607	Class1a	923	16,526.8	0.42%	57,645.0	1.47%	9,047.7	0.23%
e609	Class1a	939	3,198.7	0.08%	55,414.8	1.41%	17,509.4	0.45%
e643	Class1a	54	814.6	0.02%	859.1	0.02%	2,092.1	0.05%
e647	Class1a	575	2,660.8	0.07%	4,200.2	0.11%	35,336.2	0.90%
e649	Class1a	0	0.0	0.00%	0.0	0.00%	936.0	0.02%
e655	Class1a	32	3,050.3	0.08%	3,050.3	0.08%	544.2	0.01%
e663	Class1a	194	1,582.5	0.04%	1,582.5	0.04%	2,758.5	0.07%
e664	Class1a	0	0.0	0.00%	0.0	0.00%	812.3	0.02%
e667	Class1a	51	527.8	0.01%	527.8	0.01%	1,889.7	0.05%
e694	Class1a	252	4,310.3	0.11%	4,321.9	0.11%	2,602.1	0.07%
e696	Class1a	162	227.5	0.01%	227.5	0.01%	379.2	0.01%
e697	Class1a	30	2,780.2	0.07%	24,477.2	0.62%	8,058.9	0.21%
e700	Class1a	15	435.2	0.01%	435.2	0.01%	2,553.1	0.06%

Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e701	Class1a	0	0.0	0.00%	0.0	0.00%	1,717.5	0.04%
e705	Class1a	96	7,699.0	0.20%	7,699.0	0.20%	3,413.7	0.09%
e707	Class1a	126	29,273.5	0.74%	30,418.0	0.77%	15,869.6	0.40%
e708	Class1a	0	0.0	0.00%	0.0	0.00%	4,231.5	0.11%
e710	Class1a	128	47.2	0.00%	47.2	0.00%	3,711.9	0.09%
e720	Class1a	234	25,071.2	0.64%	26,831.6	0.68%	20,615.0	0.52%
e721	Class1a	33	41.3	0.00%	41.8	0.00%	2,538.5	0.06%
e724	Class1a	0	0.0	0.00%	0.0	0.00%	10,671.6	0.27%
e728	Class1a	304	5,505.5	0.14%	5,505.5	0.14%	2,196.5	0.06%
e751	Class1a	255	5,179.8	0.13%	5,206.8	0.13%	4,638.9	0.12%
e752	Class1a	0	0.0	0.00%	0.0	0.00%	3,230.8	0.08%
e758	Class1a	0	0.0	0.00%	0.0	0.00%	3,249.2	0.08%
e761	Class1a	155	0.0	0.00%	306,796.7	7.81%	1,414.4	0.04%
e763	Class1a	0	0.0	0.00%	0.0	0.00%	154.7	0.00%
e764	Class1a	83	2,347.0	0.06%	2,347.0	0.06%	18,130.8	0.46%
e769	Class1a	23	74.8	0.00%	74.8	0.00%	23,082.2	0.59%
e770	Class1a	0	0.0	0.00%	0.0	0.00%	6,189.3	0.16%
e786	Class1a	7	26.2	0.00%	26.2	0.00%	8,819.7	0.22%
e6337	Class1a	0	0.0	0.00%	0.0	0.00%	1,768.5	0.05%
e01	Consortia	2,760	250,564.3	6.38%	336,054.2	8.55%	317,231.0	8.07%
e05	Consortia	30,405	581,883.4	14.81%	886,718.8	22.56%	715,634.4	18.21%
e89	Consortia	33,291	434,002.1	11.04%	472,350.8	12.02%	343,814.0	8.75%
e280	Consortia	8,732	266,980.2	6.79%	386,873.1	9.84%	193,414.7	4.92%
e281	Consortia	780	34,254.9	0.87%	37,314.7	0.95%	86,649.8	2.20%
e283	Consortia	3,432	20,705.1	0.53%	31,683.9	0.81%	46,419.5	1.18%
e585	Consortia	320	0.0	0.00%	17,074.9	0.43%	0.2	0.00%
e772	Consortia	6,021	69,710.9	1.77%	69,811.3	1.78%	53,041.5	1.35%
e773	Consortia	0	0.0	0.00%	0.0	0.00%	10,471.8	0.27%
e739	Pump Priming	27	576.8	0.01%	576.8	0.01%	612.8	0.02%
e754	Pump Priming	264	845.1	0.02%	845.1	0.02%	618.6	0.02%
e757	Pump Priming	8	192.4	0.00%	192.4	0.00%	482.8	0.01%
e759	Pump Priming	0	0.0	0.00%	0.0	0.00%	603.1	0.02%
e762	Pump Priming	0	0.0	0.00%	0.0	0.00%	358.9	0.01%
e766	Pump Priming	18	149.9	0.00%	149.9	0.00%	598.9	0.02%
e768	Pump Priming	0	0.0	0.00%	0.0	0.00%	618.9	0.02%
e771	Pump Priming	0	0.0	0.00%	0.0	0.00%	123.1	0.00%
e784	Pump Priming	44	4.2	0.00%	4.2	0.00%	609.0	0.02%
e785	Pump Priming	195	82.7	0.00%	82.7	0.00%	614.3	0.02%
e507	Access to HPC	39	712.5	0.02%	712.5	0.02%	4,180.0	0.11%
e673	Access to HPC	48	20.4	0.00%	28.4	0.00%	3,094.6	0.08%
e677	Access to HPC	0	0.0	0.00%	0.0	0.00%	4,986.4	0.13%
e703	Access to HPC	1,009	5,943.9	0.15%	7,499.4	0.19%	4,456.3	0.11%
e727	Access to HPC	0	0.0	0.00%	0.0	0.00%	2,991.8	0.08%
e734	Access to HPC	246	5,811.6	0.15%	6,029.0	0.15%	7,736.6	0.20%
e735	Access to HPC	1	52.2	0.00%	52.2	0.00%	6,357.0	0.16%
e742	Access to HPC	89	1,848.8	0.05%	1,848.8	0.05%	1,934.1	0.05%
e743	Access to HPC	181	6,636.3	0.17%	6,636.3	0.17%	6,747.3	0.17%
e744	Access to HPC	145	3,047.9	0.08%	4,256.3	0.11%	4,602.7	0.12%
e745	Access to HPC	1	1,222.7	0.03%	1,222.7	0.03%	1,744.6	0.04%
e746	Access to HPC	0	0.0	0.00%	0.0	0.00%	14,086.5	0.36%
e747	Access to HPC	35	320.0	0.01%	320.0	0.01%	60,605.3	1.54%
e748	Access to HPC	7	1,793.2	0.05%	1,793.2	0.05%	23,450.0	0.60%
e755	Access to HPC	90	12,379.8	0.32%	12,379.8	0.32%	6,833.0	0.17%
e774	Access to HPC	471	2,451.7	0.06%	2,451.7	0.06%	8,826.1	0.22%
e775	Access to HPC	18	11,372.7	0.29%	11,372.7	0.29%	14,216.2	0.36%
e776	Access to HPC	253	10,116.9	0.26%	10,116.9	0.26%	5,260.0	0.13%
e777	Access to HPC	25	1,836.6	0.05%	1,836.8	0.05%	6,397.3	0.16%
e778	Access to HPC	0	0.0	0.00%	0.0	0.00%	7,563.0	0.19%
e779	Access to HPC	169	1,053.6	0.03%	1,073.0	0.03%	710.8	0.02%
e780	Access to HPC	24	1,399.3	0.04%	1,399.3	0.04%	5,686.5	0.14%
e781	Access to HPC	0	0.0	0.00%	0.0	0.00%	1,421.6	0.04%
e782	Access to HPC	116	5,912.2	0.15%	5,912.6	0.15%	1,963.5	0.05%
e783	Access to HPC	164	780.5	0.02%	780.5	0.02%	5,186.2	0.13%

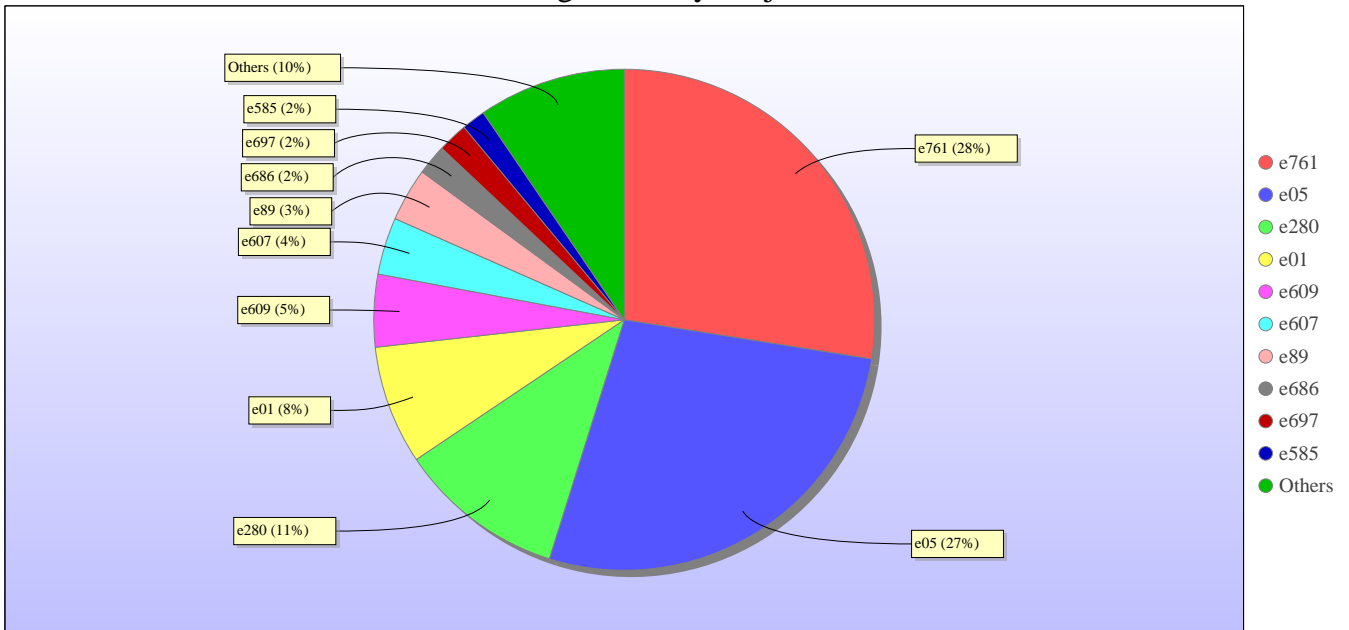
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
EPSRC Total		113,181	2,012,474.8	51.21%	3,052,101.2	77.66%	2,430,208.6	61.84%
n01	Consortia	4,250	79,168.5	2.01%	81,201.3	2.07%	135,474.0	3.45%
n02	Consortia	41,972	229,509.5	5.84%	234,214.3	5.96%	483,057.5	12.29%
n03	Consortia	2,135	132,825.8	3.38%	135,310.7	3.44%	150,049.3	3.82%
n09	Pump Priming	3	1.0	0.00%	1.0	0.00%	615.5	0.02%
NERC Total		48,360	441,504.7	11.23%	450,727.3	11.47%	769,196.3	19.57%
b19	Class1a	83	882.2	0.02%	913.5	0.02%	2,460.7	0.06%
BBSRC Total		83	882.2	0.02%	913.5	0.02%	2,460.7	0.06%
e756	Leadership Awards	61	19.3	0.00%	19.3	0.00%	4,626.5	0.12%
e760	Leadership Awards	0	0.0	0.00%	0.0	0.00%	1,069.2	0.03%
e723	Class1a	912	37,256.3	0.95%	50,778.3	1.29%	38,470.3	0.98%
e738	Class1a	0	0.0	0.00%	0.0	0.00%	15,473.2	0.39%
UKRI Total		973	37,275.6	0.95%	50,797.6	1.29%	59,639.2	1.52%
pr1u1555	DECI: EXEC	83	125.0	0.00%	125.0	0.00%	309.3	0.01%
PRACE Total		83	125.0	0.00%	125.0	0.00%	309.3	0.01%
ecseaa26	eCSE	92	50.8	0.00%	16,326.1	0.42%	280.7	0.01%
ecseac14	eCSE	0	0.0	0.00%	0.0	0.00%	59.0	0.00%
ecseac15	eCSE	81	11.1	0.00%	11.1	0.00%	121.1	0.00%
ecsead02	eCSE	0	0.0	0.00%	0.0	0.00%	141.9	0.00%
ecsead03	eCSE	0	0.0	0.00%	0.0	0.00%	116.0	0.00%
ecsead08	eCSE	8	0.5	0.00%	673.9	0.02%	96.2	0.00%
ecseae03	eCSE	95	0.0	0.00%	11.4	0.00%	84.5	0.00%
ecseae04	eCSE	130	48.2	0.00%	48.2	0.00%	108.0	0.00%
ecseae08	eCSE	0	0.0	0.00%	0.0	0.00%	107.7	0.00%
ecseae09	eCSE	0	0.0	0.00%	0.0	0.00%	105.4	0.00%
ecseaf01	eCSE	42	1.2	0.00%	1.2	0.00%	94.3	0.00%
ecseaf02	eCSE	0	0.0	0.00%	0.0	0.00%	47.6	0.00%
ecseaf03	eCSE	44	6.8	0.00%	8.5	0.00%	45.8	0.00%
ecseaf04	eCSE	0	0.0	0.00%	0.0	0.00%	58.8	0.00%
ecseaf06	eCSE	0	0.0	0.00%	0.0	0.00%	91.1	0.00%
ecseag01	eCSE	0	0.0	0.00%	0.0	0.00%	62.2	0.00%
ecseag02	eCSE	16	6.1	0.00%	6.1	0.00%	78.7	0.00%
ecseag03	eCSE	0	0.0	0.00%	0.0	0.00%	56.9	0.00%
ecseag06	eCSE	47	1.8	0.00%	2.4	0.00%	38.9	0.00%
ecseag08	eCSE	0	0.0	0.00%	0.0	0.00%	52.7	0.00%
ecseag09	eCSE	0	0.0	0.00%	0.0	0.00%	56.6	0.00%
ecseah03	eCSE	0	0.0	0.00%	0.0	0.00%	108.8	0.00%
ecseah06	eCSE	0	0.0	0.00%	0.0	0.00%	99.0	0.00%
eCSE Total		555	126.6	0.00%	17,089.0	0.43%	2,112.1	0.05%
d35	Research	193	355.9	0.01%	360.3	0.01%	153.4	0.00%
d011	Research	0	0.0	0.00%	0.0	0.00%	158.6	0.00%
d114	Research	0	0.0	0.00%	0.0	0.00%	4,720.5	0.12%
d137	Research	201	797.2	0.02%	797.2	0.02%	1,522.9	0.04%
d142	Research	2	2,881.0	0.07%	2,881.0	0.07%	4,605.3	0.12%
d170	Research	0	0.0	0.00%	0.0	0.00%	46.4	0.00%
d175	Research	0	0.0	0.00%	0.0	0.00%	1,277.2	0.03%
d193	Research	27	0.0	0.00%	3.0	0.00%	306.8	0.01%
d435	Research	119	5.6	0.00%	13.8	0.00%	76.7	0.00%
d436	Research	0	0.0	0.00%	0.0	0.00%	306.8	0.01%
dc129	Research	1,067	274.7	0.01%	274.7	0.01%	3,094.6	0.08%
d105	Industrial	0	0.0	0.00%	0.0	0.00%	3,094.6	0.08%
d181	Industrial	141	0.0	0.00%	13,053.2	0.33%	941.8	0.02%
d190	Industrial	0	0.0	0.00%	0.0	0.00%	1,534.2	0.04%
d433	Industrial	0	0.0	0.00%	0.0	0.00%	77.4	0.00%
d434	Industrial	0	0.0	0.00%	0.0	0.00%	14.2	0.00%
i01	Industrial	44	432.8	0.01%	438.5	0.01%	247.6	0.01%
i18	Industrial	81	250.0	0.01%	250.0	0.01%	2,123.6	0.05%
i21	Industrial	0	0.0	0.00%	0.0	0.00%	15,473.2	0.39%
i24	Industrial	0	0.0	0.00%	0.0	0.00%	30.9	0.00%
i25	Industrial	0	0.0	0.00%	0.0	0.00%	77.4	0.00%
i26	Industrial	204	84.1	0.00%	84.1	0.00%	154.7	0.00%

Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
i238	Industrial	0	0.0	0.00%	0.0	0.00%	464.2	0.01%
i239	Industrial	161	1,368.0	0.03%	1,368.0	0.03%	942.2	0.02%
i242	Industrial	0	0.0	0.00%	0.0	0.00%	616.7	0.02%
i243	Industrial	112	3,170.9	0.08%	3,170.9	0.08%	218.3	0.01%
i244	Industrial	0	0.0	0.00%	0.0	0.00%	1,763.2	0.04%
m22oc	Training	54	0.9	0.00%	0.9	0.00%	354.4	0.01%
m22ol	Training	0	0.0	0.00%	0.0	0.00%	354.4	0.01%
m22ext	Training	0	0.0	0.00%	0.0	0.00%	141.8	0.00%
mdisspt	Training	0	0.0	0.00%	0.0	0.00%	134.3	0.00%
m22exts1	Training	0	0.0	0.00%	0.0	0.00%	70.9	0.00%
ta046	Training	0	0.0	0.00%	0.0	0.00%	28.9	0.00%
ta047	Training	0	0.0	0.00%	0.0	0.00%	28.9	0.00%
ta052	Training	0	0.0	0.00%	0.0	0.00%	461.9	0.01%
ta053	Training	0	0.0	0.00%	0.0	0.00%	30.4	0.00%
ta067	Training	0	0.0	0.00%	0.0	0.00%	17.2	0.00%
ta068	Training	0	0.0	0.00%	0.0	0.00%	17.2	0.00%
ta069	Training	0	0.0	0.00%	0.0	0.00%	17.2	0.00%
ta070	Training	95	160.9	0.00%	160.9	0.00%	550.8	0.01%
ta084	Training	53	4.6	0.00%	4.6	0.00%	689.9	0.02%
ta085	Training	0	0.0	0.00%	0.0	0.00%	34.6	0.00%
ta086	Training	0	0.0	0.00%	0.0	0.00%	17.2	0.00%
ta087	Training	0	0.0	0.00%	0.0	0.00%	17.2	0.00%
ta093	Training	189	97.0	0.00%	8,272.1	0.21%	676.3	0.02%
ta094	Training	1,345	60.8	0.00%	873.1	0.02%	1,152.4	0.03%
ta095	Training	0	0.0	0.00%	0.0	0.00%	57.6	0.00%
ta096	Training	0	0.0	0.00%	0.0	0.00%	57.6	0.00%
ta097	Training	0	0.0	0.00%	0.0	0.00%	57.6	0.00%
ta099	Training	991	264.5	0.01%	176.5	0.00%	184.6	0.00%
ta100	Training	0	0.0	0.00%	0.0	0.00%	6.4	0.00%
ta101	Training	0	0.0	0.00%	0.0	0.00%	12.3	0.00%
ta102	Training	0	0.0	0.00%	0.0	0.00%	16.1	0.00%
ta103	Training	0	0.0	0.00%	0.0	0.00%	4.9	0.00%
ta104	Training	0	0.0	0.00%	0.0	0.00%	9.5	0.00%
ta105	Training	0	0.0	0.00%	0.0	0.00%	4.1	0.00%
ta106	Training	23	0.2	0.00%	0.2	0.00%	8.1	0.00%
d191	Service	0	0.0	0.00%	0.0	0.00%	3.8	0.00%
y01	Service	0	0.0	0.00%	0.0	0.00%	67.6	0.00%
y02	Service	445	33.8	0.00%	12,121.3	0.31%	767.1	0.02%
y07	Service	0	0.0	0.00%	0.0	0.00%	74.9	0.00%
y23	Service	0	0.0	0.00%	0.0	0.00%	76.7	0.00%
z01	Service	0	0.0	0.00%	0.0	0.00%	7.5	0.00%
z02	Service	3	0.2	0.00%	0.2	0.00%	7.7	0.00%
z19	Service	1,486	27,912.7	0.71%	29,033.1	0.74%	38,461.5	0.98%
z99	Service	0	0.0	0.00%	0.0	0.00%	0.8	0.00%
DirectorsTime Total		7,036	38,155.8	0.97%	73,337.7	1.87%	88,726.0	2.26%
Total		170,271	2,530,544.8	64.39%	3,645,091.4	92.75%	3,352,652.1	85.31%

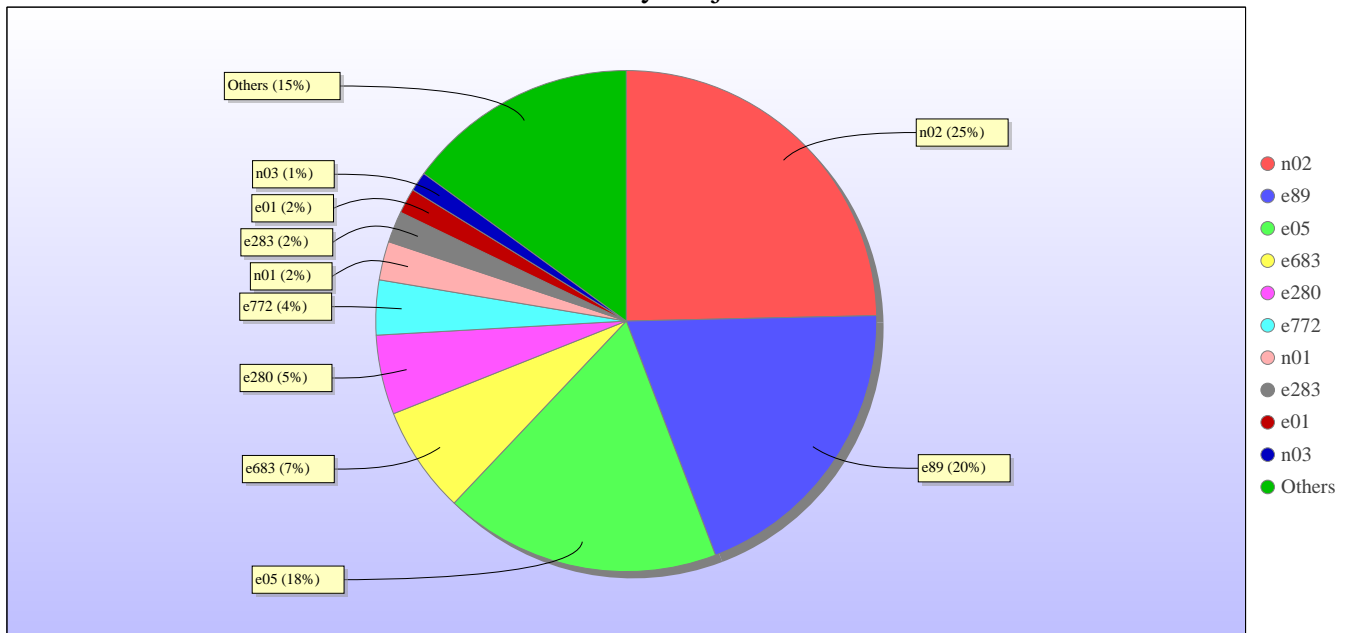
### Use by Project



### Uncharged Use by Project



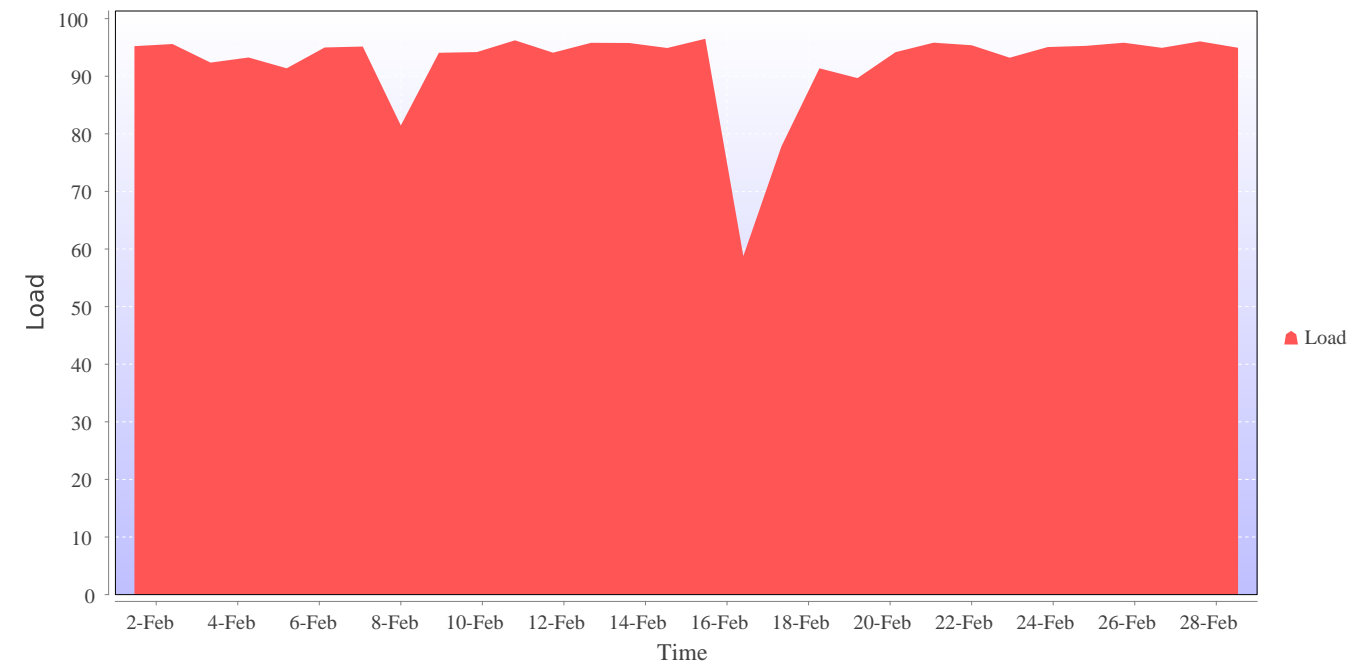
## Jobs by Project



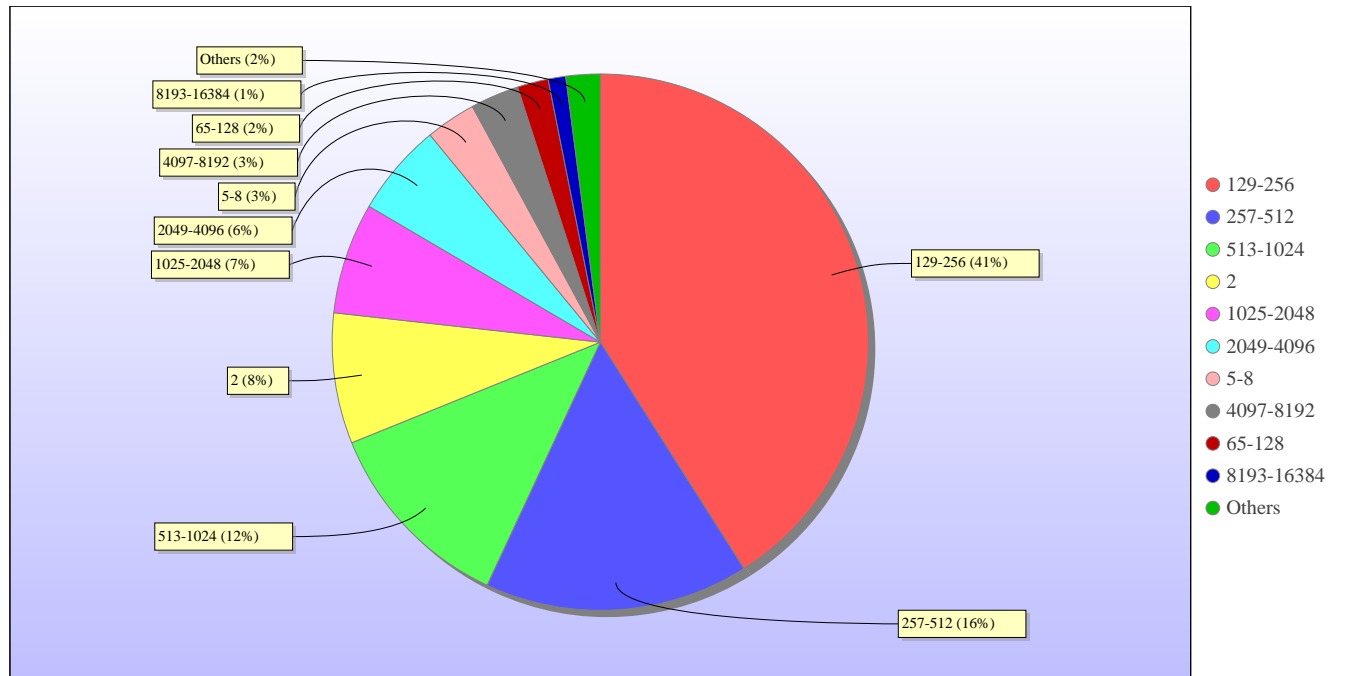
## CUs (by Size)

Size	CUs	Number of Jobs
1	0	511
2	0	13,399
3-4	0	31
5-8	0	5,171
9-16	0	123
17-32	0	244
33-64	0	95
65-128	0	3,184
129-256	162,412.616	69,813
257-512	156,394.28	27,125
513-1024	295,040.484	20,338
1025-2048	356,174.009	11,408
2049-4096	471,501.212	9,530
4097-8192	311,545.569	4,974
8193-16384	355,324.043	1,804
16385-32768	219,816.918	1,175
32769-65536	57,753.118	900
65537-131072	84,725.745	307
131073-262144	15,939.861	103
262145-524288	41,492.989	22

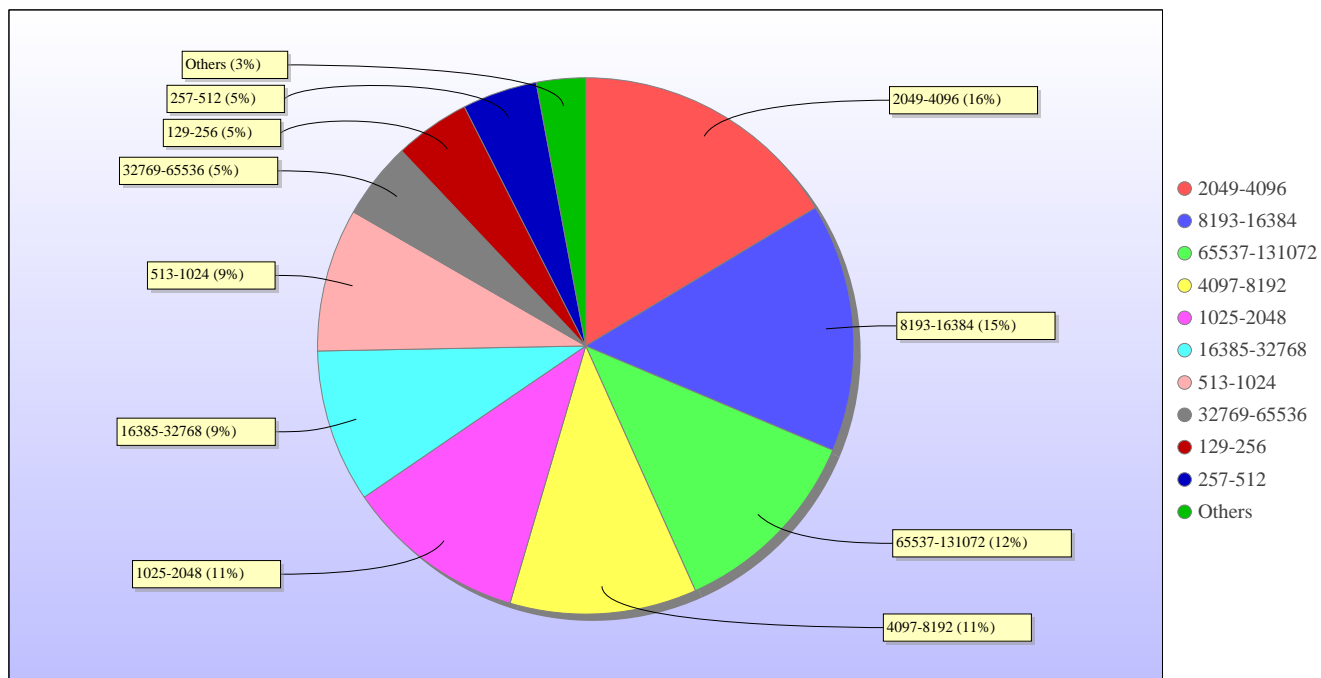
Load plots



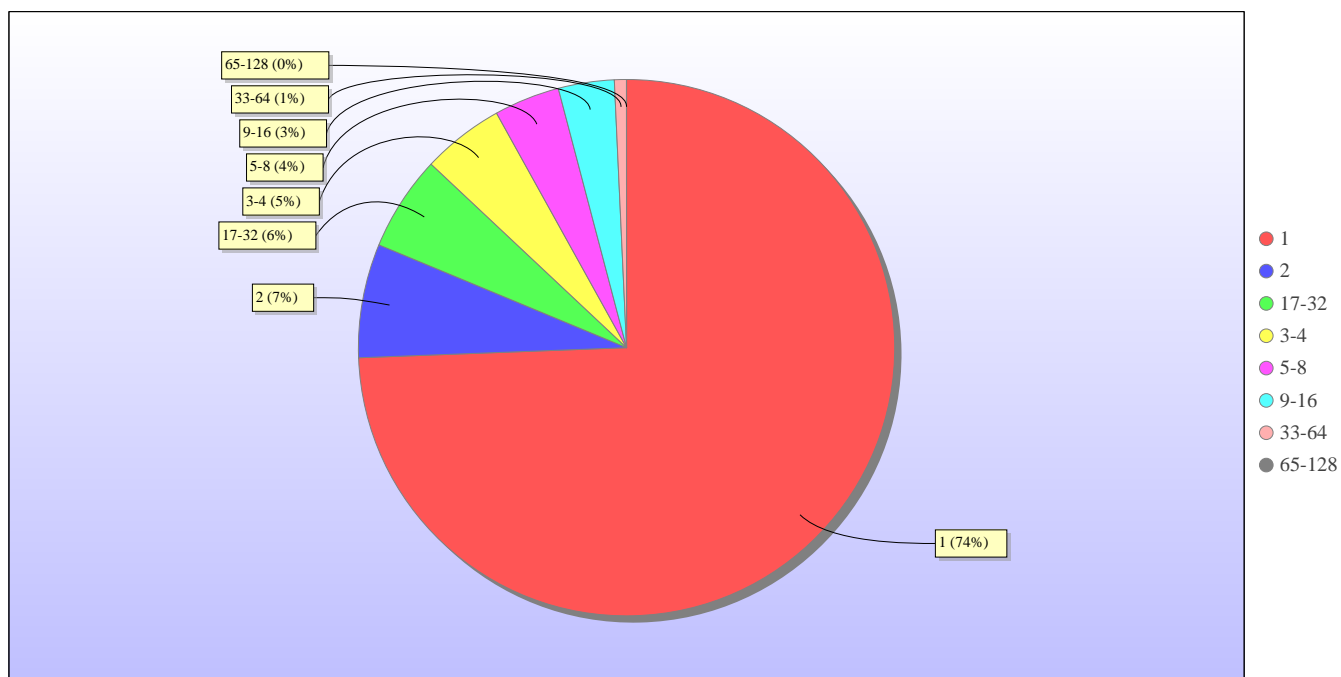
Percentage load on machine



Jobs by Size

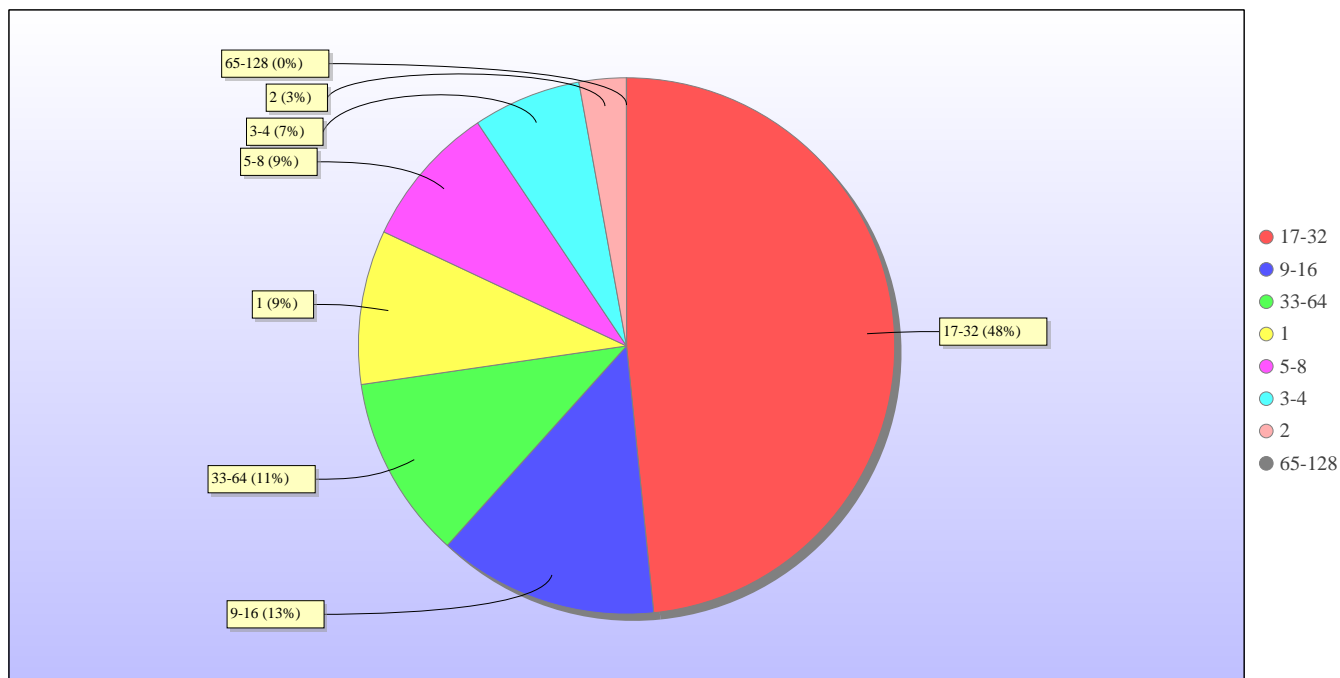


CUs used by Size

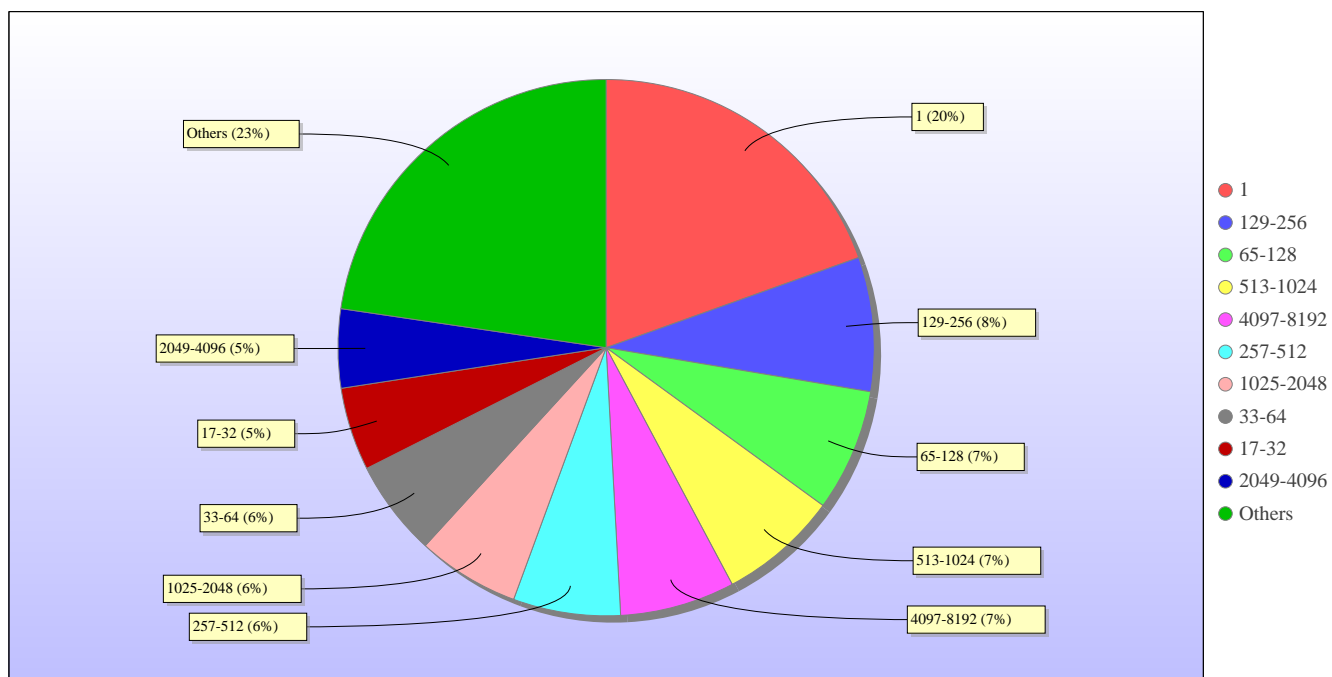


Jobs grouped by wall-clock-hours

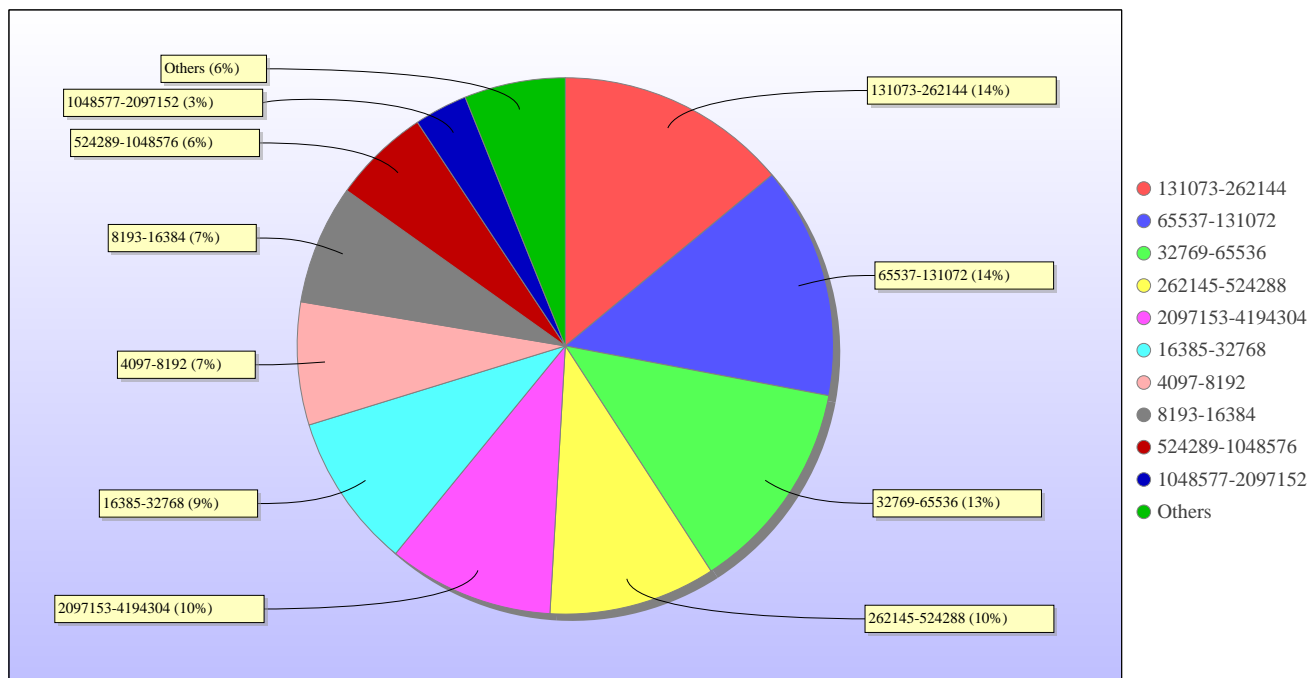




CUs used grouped by wall-clock-hours



Jobs grouped by core-hours

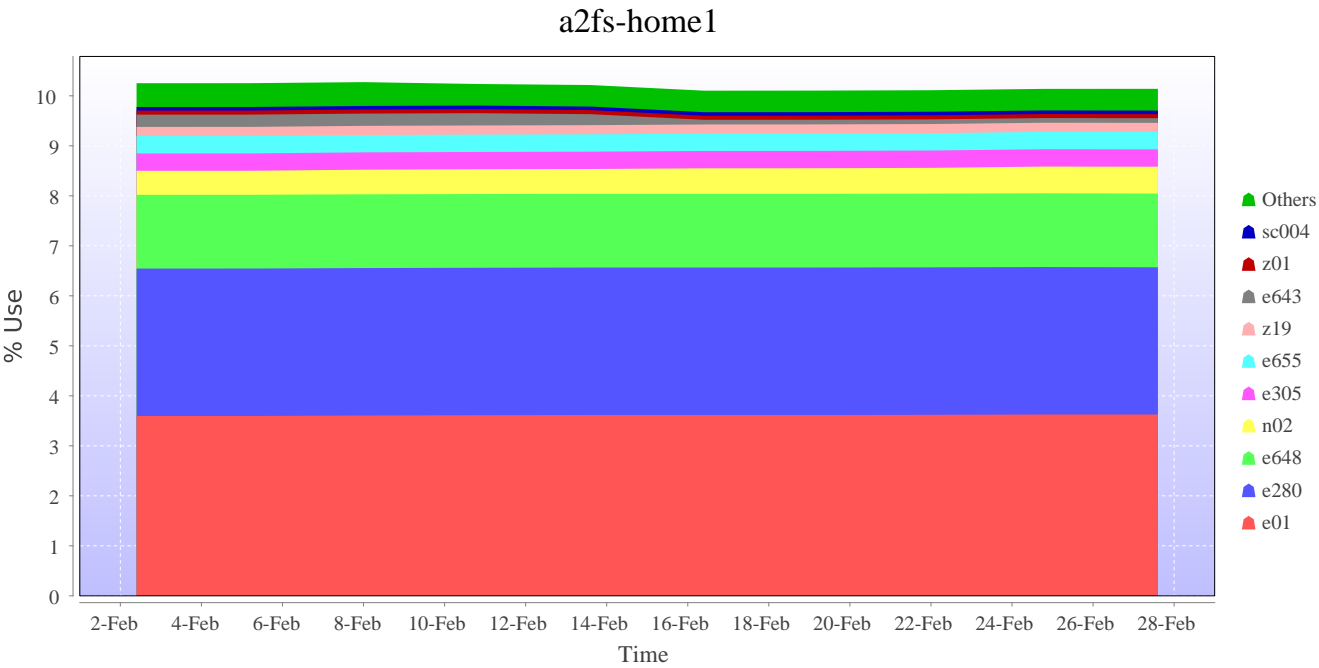


CUs used grouped by core-hours

# Disk usage

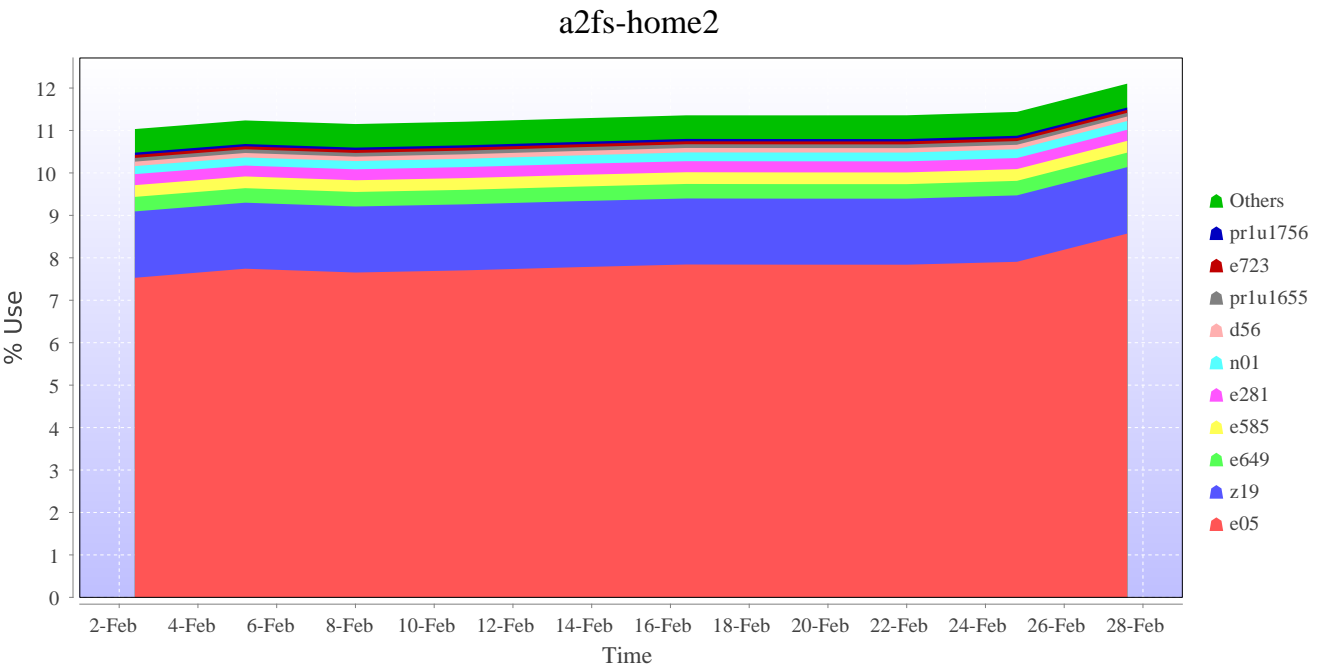
## Disk usage for home ( a2fs-home1 )

This is a plot of Disk Use on a2fs-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.



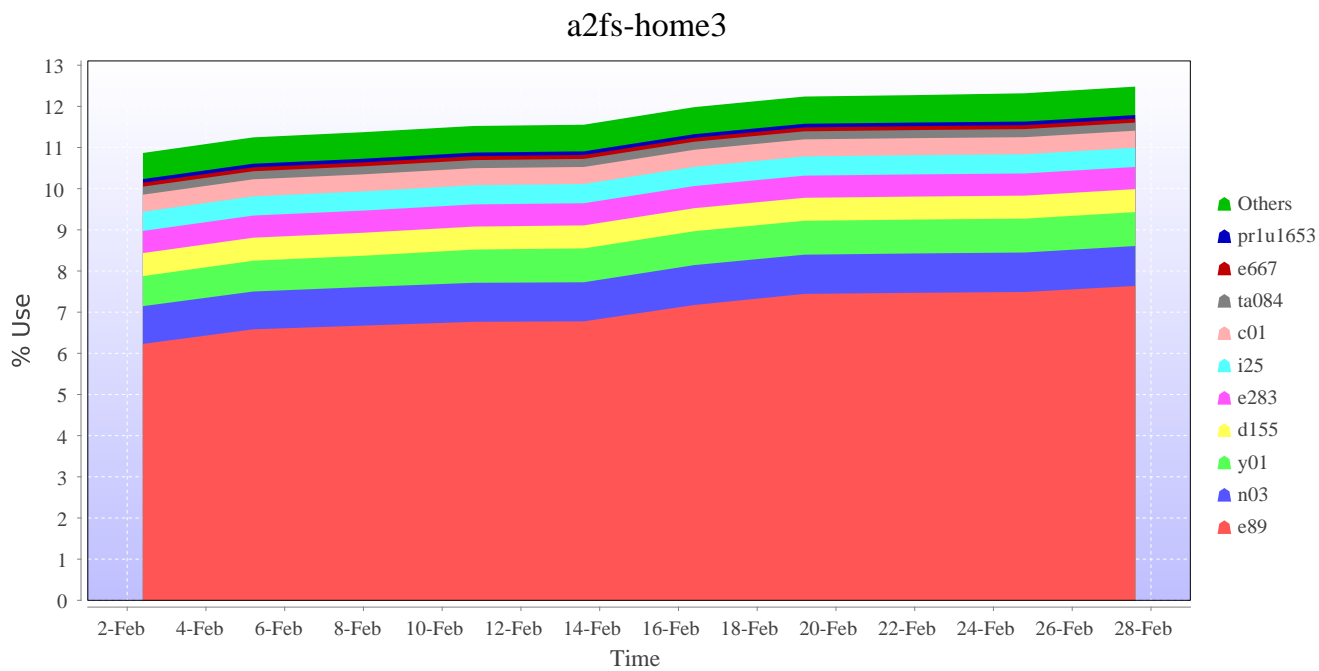
## Disk usage for home ( a2fs-home2 )

This is a plot of Disk Use on a2fs-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.



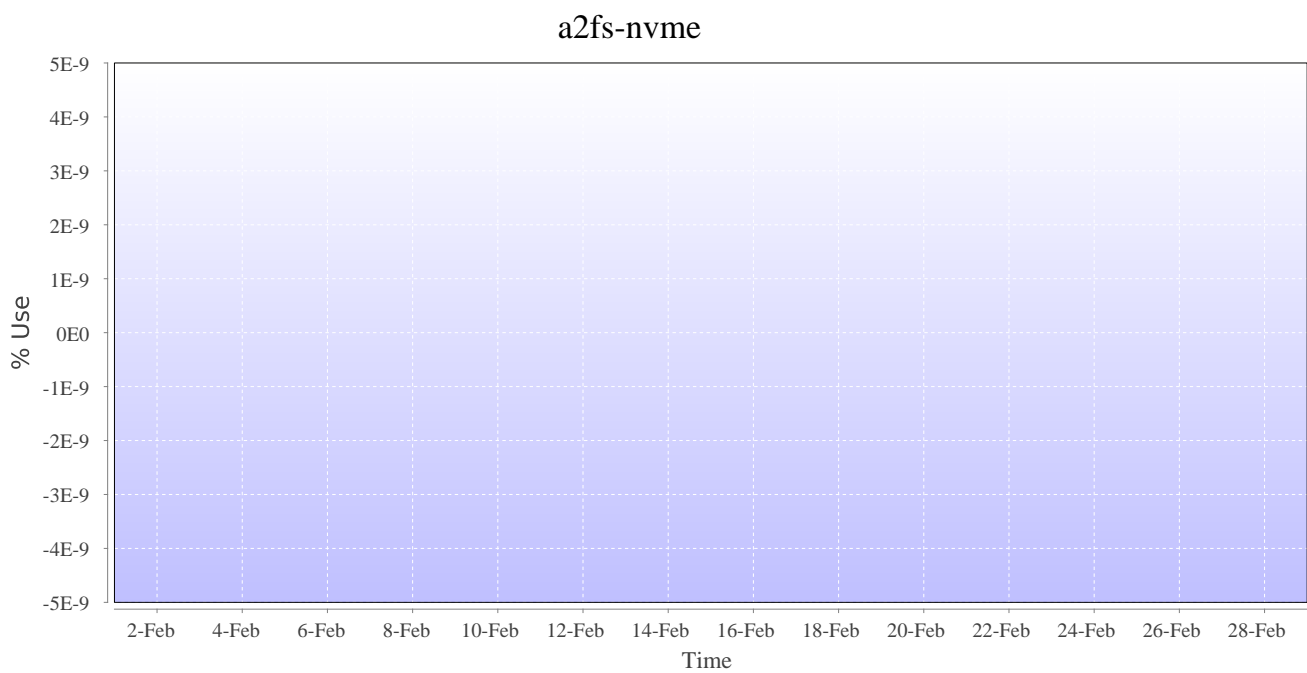
Disk usage for home ( a2fs-home3 )

This is a plot of Disk Use on a2fs-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.



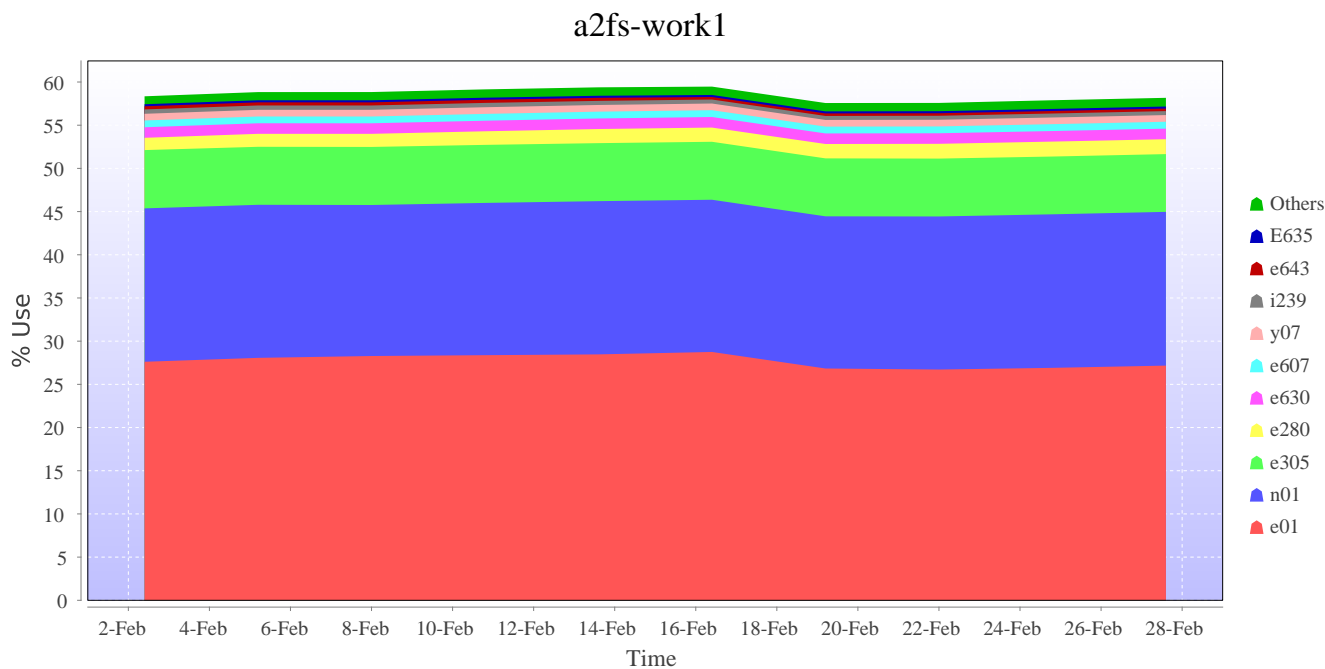
Disk usage for work-nVME ( a2fs-nvme )

This is a plot of Disk Use on a2fs-nvme 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.



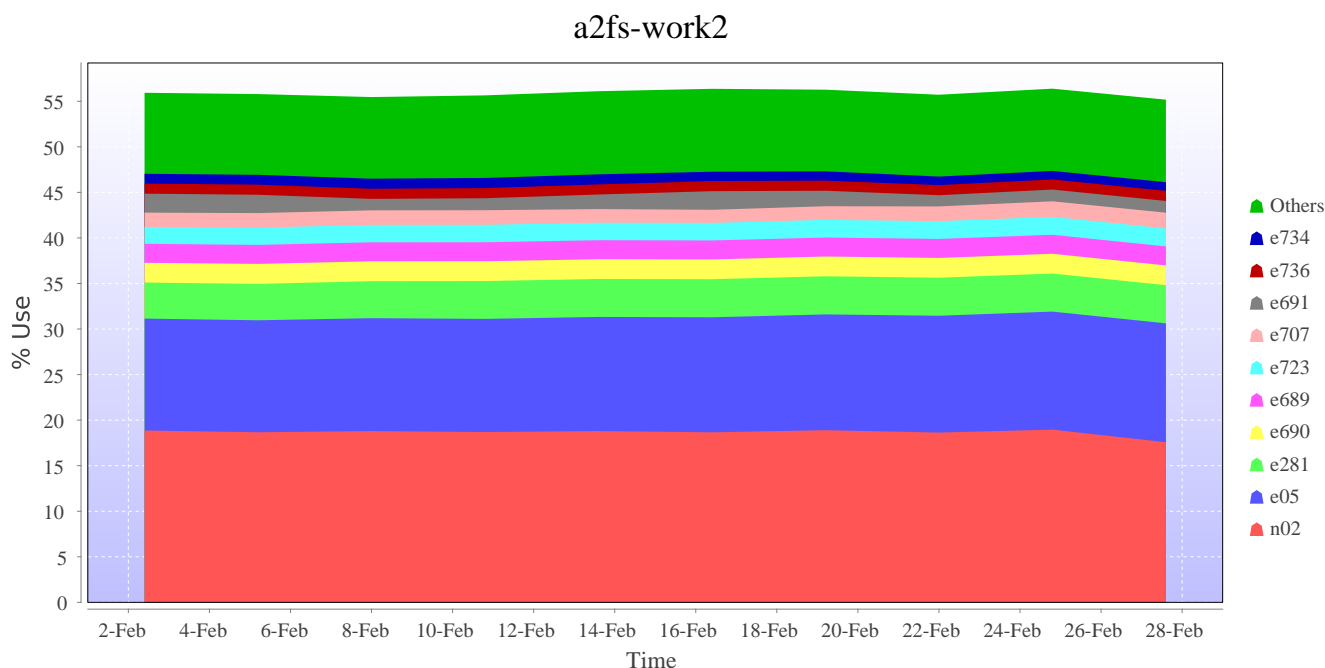
### Disk usage for work ( a2fs-work1 )

This is a plot of Disk Use on a2fs-work1 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.



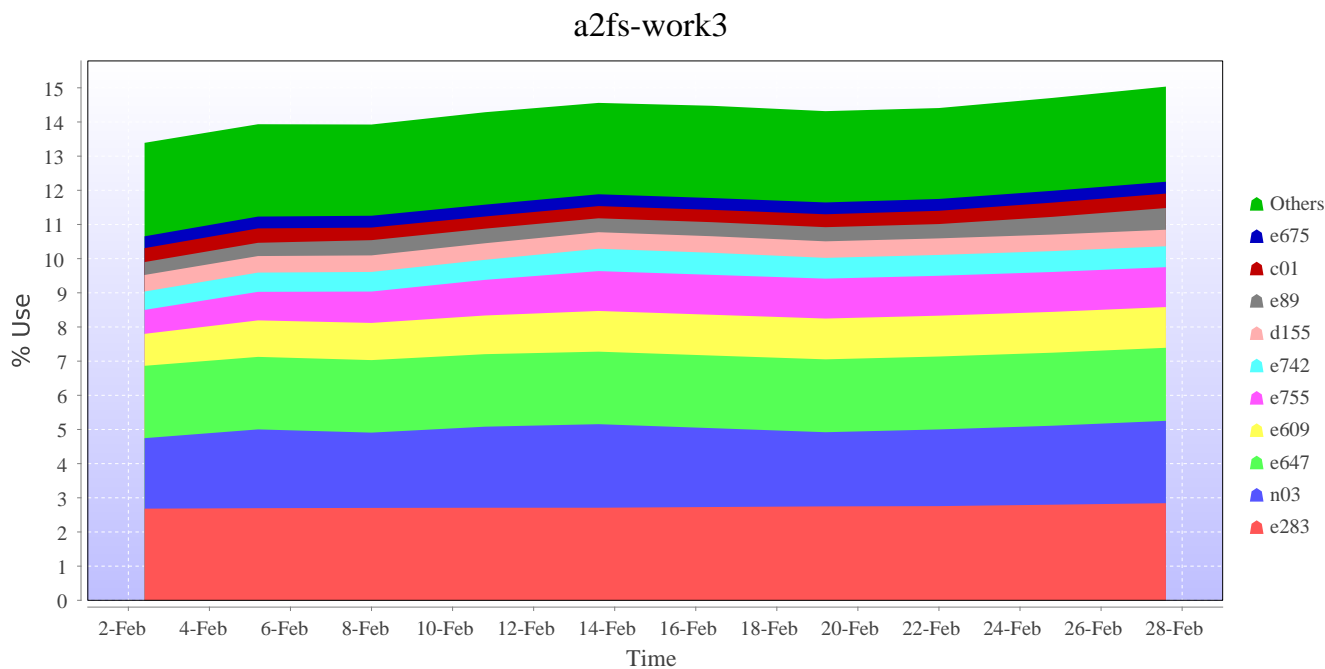
### Disk usage for work ( a2fs-work2 )

This is a plot of Disk Use on a2fs-work2 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.



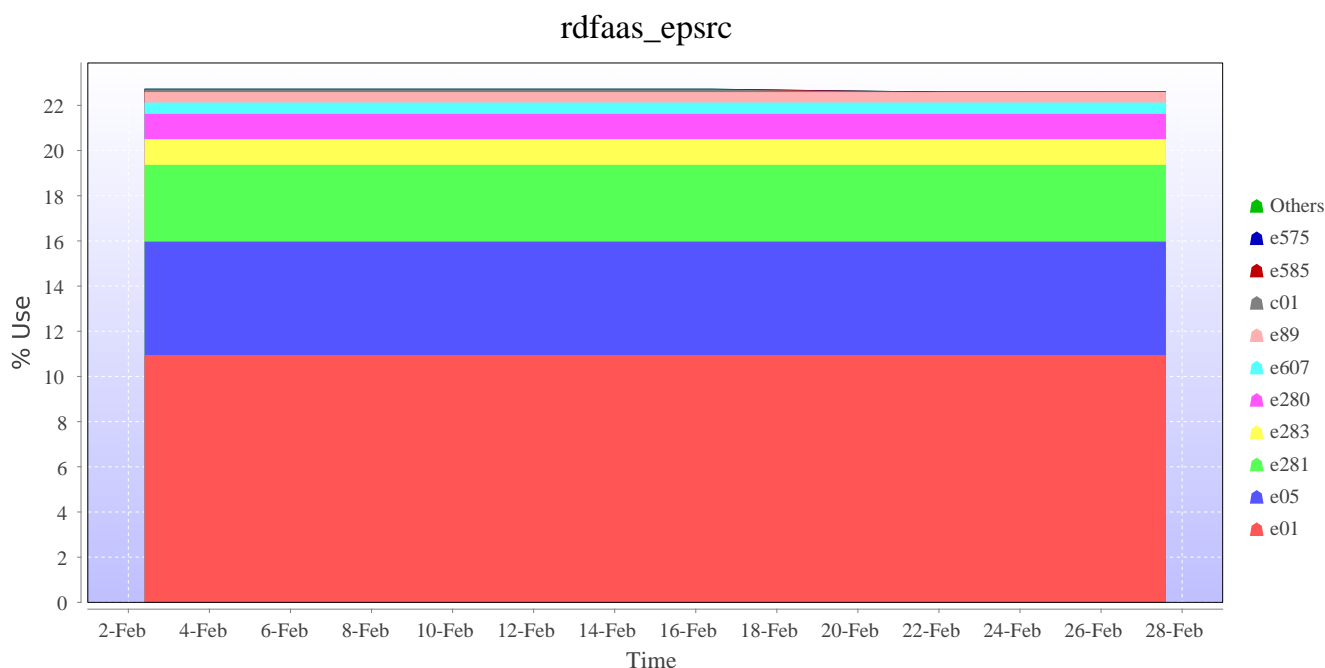
### Disk usage for work ( a2fs-work3 )

This is a plot of Disk Use on a2fs-work3 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 epsrc ( rdfaas\_epsrc )

This is a plot of Disk Use on rdfaas\_epsrc 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 general ( rdfaas\_general )

This is a plot of Disk Use on rdfaas\_general 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.

