

# Monthly Reporting

## Report from 01 May 2021 to 31 May 2021

### Report for Resource Pool Archer2 on archer2-4c

A total of 761,856 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.

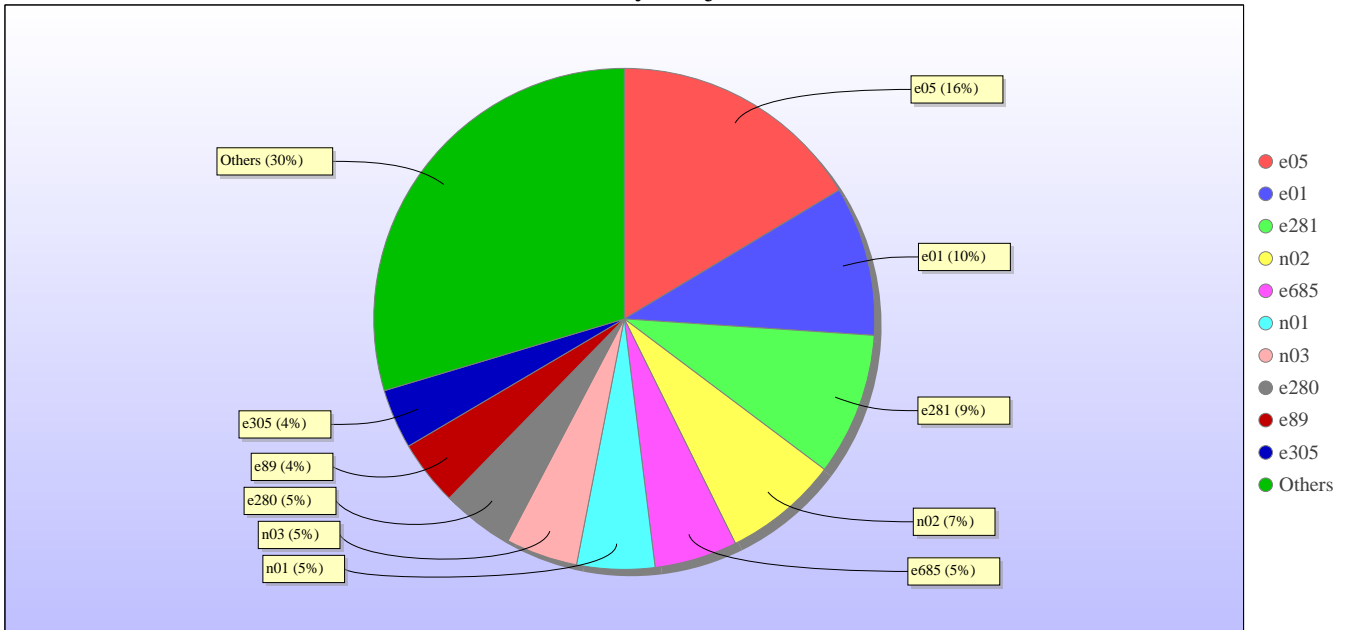
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e691	Leadership Awards	0	0.0	0.00%	0.0	0.00%	25.4	0.00%
e692	Leadership Awards	0	0.0	0.00%	0.0	0.00%	25.4	0.00%
e693	Leadership Awards	0	0.0	0.00%	0.0	0.00%	25.4	0.00%
e683	Pioneer Projects	1,240	7,817.2	1.03%	7,817.2	1.03%	9,377.5	1.23%
e685	Pioneer Projects	296	34,658.1	4.55%	34,658.1	4.55%	31,254.1	4.10%
e686	Pioneer Projects	0	0.0	0.00%	0.0	0.00%	0.0	0.00%
e687	Pioneer Projects	0	0.0	0.00%	0.0	0.00%	25.4	0.00%
e688	Pioneer Projects	1	0.0	0.00%	0.0	0.00%	25.4	0.00%
e689	Pioneer Projects	0	0.0	0.00%	0.0	0.00%	25.4	0.00%
e690	Pioneer Projects	0	0.0	0.00%	0.0	0.00%	25.4	0.00%
E635	Class1a	710	2,777.0	0.36%	2,777.0	0.36%	3,445.3	0.45%
c01	Class1a	1,455	10,772.9	1.41%	10,772.9	1.41%	11,744.2	1.54%
e432	Class1a	48	980.2	0.13%	980.2	0.13%	5,220.8	0.69%
e448	Class1a	0	0.0	0.00%	0.0	0.00%	1,321.3	0.17%
e537	Class1a	0	0.0	0.00%	0.0	0.00%	1,245.7	0.16%
e569	Class1a	0	0.0	0.00%	0.0	0.00%	2,586.4	0.34%
e575	Class1a	589	1,742.8	0.23%	1,742.8	0.23%	1,016.4	0.13%
e584	Class1a	0	0.0	0.00%	0.0	0.00%	1,081.6	0.14%
e588	Class1a	0	0.0	0.00%	0.0	0.00%	4,042.5	0.53%
e606	Class1a	104	72.2	0.01%	72.2	0.01%	7,532.4	0.99%
e607	Class1a	246	10,751.3	1.41%	10,751.3	1.41%	10,618.2	1.39%
e608	Class1a	13	7.3	0.00%	7.3	0.00%	3,217.3	0.42%
e609	Class1a	1,048	261.5	0.03%	261.5	0.03%	3,241.3	0.43%
e610	Class1a	51	2,177.0	0.29%	2,177.0	0.29%	2,336.9	0.31%
e613	Class1a	6	416.5	0.05%	416.5	0.05%	1,385.2	0.18%
e627	Class1a	204	1,948.8	0.26%	1,948.8	0.26%	8,469.9	1.11%
e630	Class1a	52	2,583.8	0.34%	5,475.0	0.72%	12,866.9	1.69%
e637	Class1a	77	934.5	0.12%	934.5	0.12%	4,809.6	0.63%
e642	Class1a	0	0.0	0.00%	0.0	0.00%	9,469.3	1.24%
e643	Class1a	598	844.8	0.11%	844.8	0.11%	9,297.2	1.22%
e645	Class1a	0	0.0	0.00%	0.0	0.00%	2,691.1	0.35%
e647	Class1a	1,510	10,966.6	1.44%	10,966.6	1.44%	9,724.0	1.28%

Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e648	Class1a	34	5,012.9	0.66%	5,012.9	0.66%	5,610.2	0.74%
e649	Class1a	116	6,915.1	0.91%	6,915.1	0.91%	6,706.2	0.88%
e651	Class1a	377	5,939.7	0.78%	5,939.7	0.78%	2,674.4	0.35%
e655	Class1a	305	10,144.9	1.33%	10,144.9	1.33%	3,195.9	0.42%
e663	Class1a	117	1,772.0	0.23%	1,772.0	0.23%	4,057.5	0.53%
e667	Class1a	107	2,715.1	0.36%	2,715.1	0.36%	3,017.8	0.40%
e668	Class1a	31	8.0	0.00%	8.0	0.00%	1,922.4	0.25%
e681	Class1a	0	0.0	0.00%	0.0	0.00%	595.1	0.08%
e682	Class1a	19	36.7	0.00%	36.7	0.00%	2,454.3	0.32%
e684	Class1a	135	285.7	0.04%	285.7	0.04%	1,047.2	0.14%
e694	Class1a	0	0.0	0.00%	0.0	0.00%	1,895.4	0.25%
e696	Class1a	20	335.2	0.04%	335.2	0.04%	75.0	0.01%
e697	Class1a	0	0.0	0.00%	0.0	0.00%	2,935.1	0.39%
e700	Class1a	10	288.1	0.04%	288.1	0.04%	409.1	0.05%
e701	Class1a	75	4,285.1	0.56%	4,285.1	0.56%	2,070.5	0.27%
e702	Class1a	0	0.0	0.00%	0.0	0.00%	48.3	0.01%
e707	Class1a	0	0.0	0.00%	0.0	0.00%	1,233.0	0.16%
e6337	Class1a	26	1,822.7	0.24%	1,822.7	0.24%	2,235.4	0.29%
e01	Consortia	2,522	61,989.5	8.14%	62,510.0	8.20%	90,513.2	11.88%
e05	Consortia	8,642	103,313.1	13.56%	106,333.8	13.96%	193,517.8	25.40%
e89	Consortia	6,384	27,284.8	3.58%	27,284.8	3.58%	75,723.0	9.94%
e280	Consortia	701	29,956.7	3.93%	29,956.7	3.93%	35,560.8	4.67%
e281	Consortia	705	59,712.0	7.84%	59,712.0	7.84%	33,454.7	4.39%
e283	Consortia	2,216	19,262.4	2.53%	19,271.8	2.53%	22,223.5	2.92%
e305	Consortia	841	24,926.4	3.27%	24,976.1	3.28%	38,189.8	5.01%
e585	Consortia	795	14,845.6	1.95%	14,845.6	1.95%	22,354.0	2.93%
e658	Consortia	3	1,638.9	0.22%	1,638.9	0.22%	3,406.6	0.45%
e695	Pump Priming	0	0.0	0.00%	0.0	0.00%	128.5	0.02%
e698	Pump Priming	0	0.0	0.00%	0.0	0.00%	134.8	0.02%
e699	Pump Priming	0	0.0	0.00%	0.0	0.00%	101.6	0.01%
e704	Pump Priming	0	0.0	0.00%	0.0	0.00%	33.5	0.00%
e348	Direct Access: ARCHER RAP	898	5,123.4	0.67%	5,123.4	0.67%	3,063.5	0.40%
e507	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	2,254.2	0.30%
e664	Direct Access: ARCHER RAP	2	0.1	0.00%	0.1	0.00%	2,371.5	0.31%
e672	Direct Access: ARCHER RAP	151	287.8	0.04%	287.8	0.04%	2,293.9	0.30%
e676	Direct Access: ARCHER RAP	59	1,076.2	0.14%	1,076.2	0.14%	5,723.9	0.75%
e677	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	6,537.8	0.86%
e632	Instant Access	58	217.5	0.03%	217.5	0.03%	4,869.1	0.64%
e669	Instant Access	0	0.0	0.00%	0.0	0.00%	81.0	0.01%
e670	Instant Access	0	0.0	0.00%	0.0	0.00%	269.7	0.04%
e671	Instant Access	0	0.0	0.00%	0.0	0.00%	257.6	0.03%
ecseaa12	eCSE	180	146.7	0.02%	146.7	0.02%	67.9	0.01%
ta021	Training	0	0.0	0.00%	0.0	0.00%	63.9	0.01%
ta023	Training	0	0.0	0.00%	0.0	0.00%	322.3	0.04%
ta024	Training	19	26.6	0.00%	26.6	0.00%	620.0	0.08%
ta025	Training	22	121.9	0.02%	121.9	0.02%	620.0	0.08%
ta026	Training	0	0.0	0.00%	0.0	0.00%	63.5	0.01%
ta027	Training	30	0.0	0.00%	0.0	0.00%	84.9	0.01%
ta028	Training	0	0.0	0.00%	0.0	0.00%	297.9	0.04%
e596	Access to HPC	4	1.4	0.00%	1.4	0.00%	1,127.1	0.15%
e673	Access to HPC	13	5.6	0.00%	5.6	0.00%	4,508.4	0.59%
e674	Access to HPC	105	1,224.9	0.16%	1,224.9	0.16%	2,195.0	0.29%
e675	Access to HPC	453	1,631.1	0.21%	1,631.1	0.21%	11,902.2	1.56%
e678	Access to HPC	446	1,358.6	0.18%	1,358.6	0.18%	811.5	0.11%
e679	Access to HPC	0	0.0	0.00%	0.0	0.00%	3,246.1	0.43%
e680	Access to HPC	0	0.0	0.00%	0.0	0.00%	3,381.3	0.44%
EPSRC Total		34,869	483,425.1	63.45%	489,916.5	64.31%	772,732.0	101.43%
n01	Consortia	5,997	32,572.2	4.28%	32,572.2	4.28%	153,980.8	20.21%

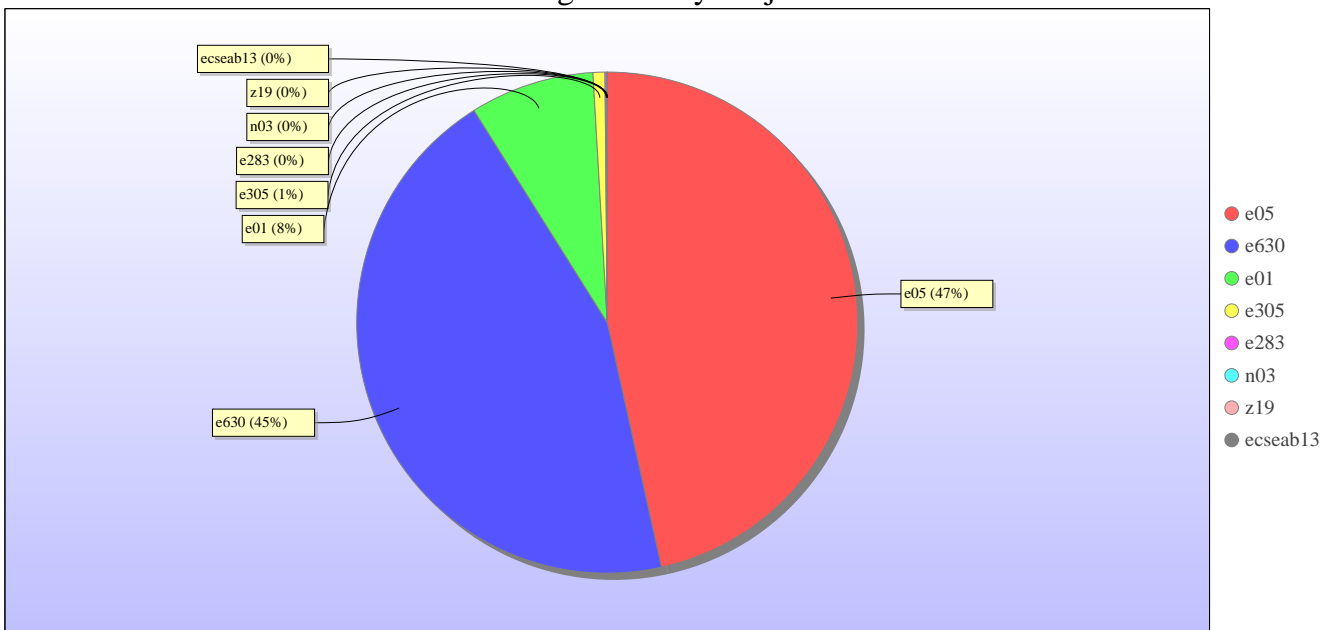
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
n02	Consortia	13,691	48,101.7	6.31%	48,101.7	6.31%	439,265.8	57.66%
n03	Consortia	3,481	30,038.7	3.94%	30,038.7	3.94%	112,364.4	14.75%
<b>NERC Total</b>		<b>23,169</b>	<b>110,712.6</b>	<b>14.53%</b>	<b>110,712.7</b>	<b>14.53%</b>	<b>705,611.0</b>	<b>92.62%</b>
e621	Class1a	30	2,559.9	0.34%	2,559.9	0.34%	3,939.9	0.52%
e568	Research	0	0.0	0.00%	0.0	0.00%	18.2	0.00%
<b>BBSRC Total</b>		<b>30</b>	<b>2,559.9</b>	<b>0.34%</b>	<b>2,559.9</b>	<b>0.34%</b>	<b>3,958.1</b>	<b>0.52%</b>
pr1u0001	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	18.5	0.00%
pr1u1552	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	18.6	0.00%
pr1u1651	DECI: EXEC	10	1,143.5	0.15%	1,143.5	0.15%	801.2	0.11%
pr1u1652	DECI: EXEC	20	2,248.9	0.30%	2,248.9	0.30%	2,580.1	0.34%
pr1u1653	DECI: EXEC	50	8,444.5	1.11%	8,444.5	1.11%	2,685.4	0.35%
pr1u1654	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	549.6	0.07%
pr1u1655	DECI: EXEC	1,510	7,158.7	0.94%	7,158.7	0.94%	4,233.7	0.56%
pr1u1656	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	4,271.8	0.56%
pr1u1657	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	509.5	0.07%
pr1u1658	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	2,238.0	0.29%
pr1u1659	DECI: EXEC	310	8,113.5	1.06%	8,113.5	1.06%	1,581.7	0.21%
pr1u1501	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.2	0.00%
pr1u1601	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1602	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1603	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1604	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1605	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1606	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1607	DECI: HOME	0	0.0	0.00%	0.0	0.00%	18.6	0.00%
pr1u1608	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1609	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1610	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1611	DECI: HOME	0	0.0	0.00%	0.0	0.00%	83.3	0.01%
<b>PRACE Total</b>		<b>1,900</b>	<b>27,109.1</b>	<b>3.56%</b>	<b>27,109.1</b>	<b>3.56%</b>	<b>19,591.1</b>	<b>2.57%</b>
ecseaa21	eCSE	0	0.0	0.00%	0.0	0.00%	68.6	0.01%
ecseaa26	eCSE	0	0.0	0.00%	0.0	0.00%	37.2	0.00%
ecseaa28	eCSE	12	49.7	0.01%	49.7	0.01%	80.2	0.01%
ecseab06	eCSE	0	0.0	0.00%	0.0	0.00%	16.9	0.00%
ecseab11	eCSE	45	5.3	0.00%	5.3	0.00%	19.0	0.00%
ecseab12	eCSE	3	0.0	0.00%	0.0	0.00%	63.0	0.01%
ecseab13	eCSE	85	3.2	0.00%	3.2	0.00%	49.5	0.01%
<b>eCSE Total</b>		<b>145</b>	<b>58.2</b>	<b>0.01%</b>	<b>58.2</b>	<b>0.01%</b>	<b>334.3</b>	<b>0.04%</b>
d35	Research	0	0.0	0.00%	0.0	0.00%	34.1	0.00%
d56	Research	304	1,711.9	0.22%	1,711.9	0.22%	3,013.9	0.40%
d114	Research	0	0.0	0.00%	0.0	0.00%	3,406.6	0.45%
d118	Research	1	0.2	0.00%	0.2	0.00%	792.7	0.10%
d137	Research	93	3,949.3	0.52%	3,949.3	0.52%	1,686.3	0.22%
d142	Research	0	0.0	0.00%	0.0	0.00%	411.8	0.05%
d155	Research	1	0.1	0.00%	0.1	0.00%	9,025.3	1.18%
d170	Research	0	0.0	0.00%	0.0	0.00%	34.1	0.00%
d172	Research	0	0.0	0.00%	0.0	0.00%	170.3	0.02%
d428	Research	0	0.0	0.00%	0.0	0.00%	71.3	0.01%
d429	Research	319	850.1	0.11%	850.1	0.11%	851.6	0.11%
d153	Industrial	0	0.0	0.00%	0.0	0.00%	136.3	0.02%
d432	Industrial	0	0.0	0.00%	0.0	0.00%	2,089.0	0.27%
i01	Industrial	0	0.0	0.00%	0.0	0.00%	34.1	0.00%
i18	Industrial	0	0.0	0.00%	0.0	0.00%	433.7	0.06%
i21	Industrial	0	0.0	0.00%	0.0	0.00%	340.7	0.04%
i236	Industrial	1	148.8	0.02%	148.8	0.02%	127.0	0.02%
x06	Industrial	0	0.0	0.00%	0.0	0.00%	1.1	0.00%
d174	Training	0	0.0	0.00%	0.0	0.00%	506.5	0.07%
ta029	Training	0	0.0	0.00%	0.0	0.00%	22.7	0.00%
y23	Service	0	0.0	0.00%	0.0	0.00%	340.7	0.04%
<b>DirectorsTime Total</b>		<b>719</b>	<b>6,660.5</b>	<b>0.87%</b>	<b>6,660.5</b>	<b>0.87%</b>	<b>23,529.7</b>	<b>3.09%</b>
y02	Service	359	126.3	0.02%	126.3	0.02%	112.7	0.01%
y07	Service	212	2.9	0.00%	2.9	0.00%	169.9	0.02%

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z01	Service	0	0.0	0.00%	0.0	0.00%	84.9	0.01%
z02	Service	4	0.0	0.00%	0.0	0.00%	678.3	0.09%
z19	Service	1,538	11,028.3	1.45%	11,028.3	1.45%	16,939.9	2.22%
<b>CSE Total</b>		<b>2,113</b>	<b>11,157.5</b>	<b>1.46%</b>	<b>11,157.5</b>	<b>1.46%</b>	<b>17,985.7</b>	<b>2.36%</b>
<b>Total</b>		<b>62,945</b>	<b>641,682.9</b>	<b>84.23%</b>	<b>648,174.4</b>	<b>85.08%</b>	<b>1,543,741.9</b>	<b>202.63%</b>

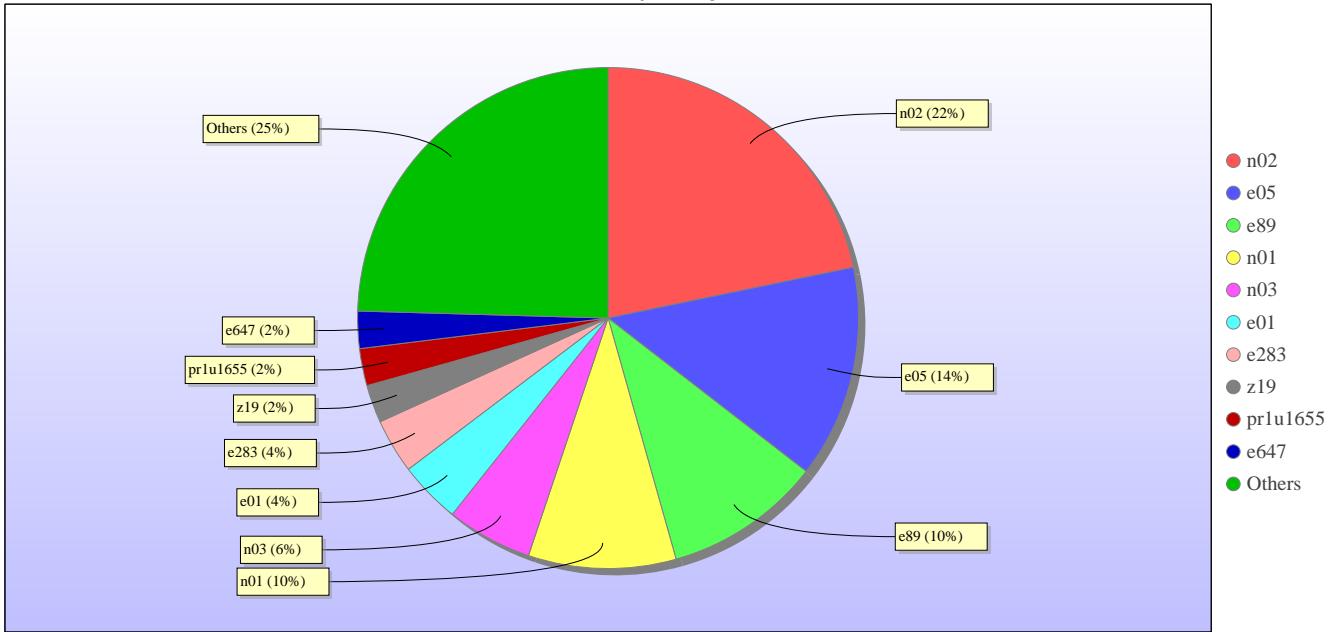
Use by Project



Uncharged Use by Project



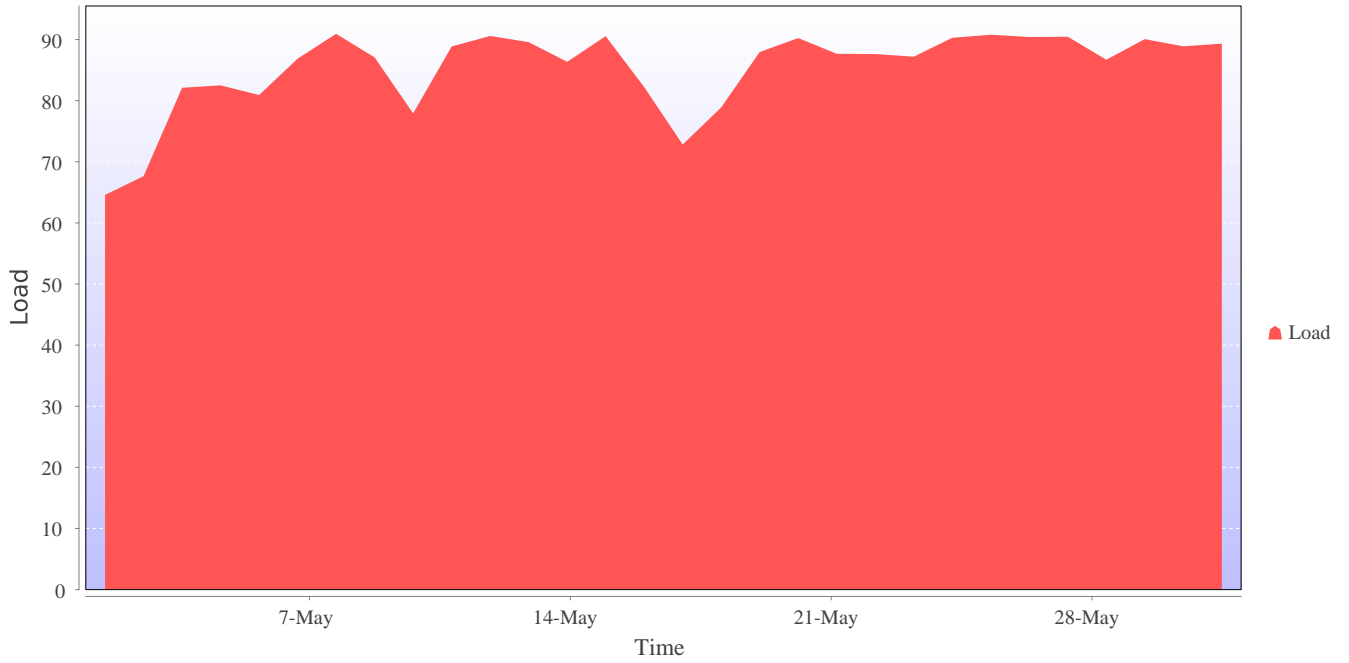
### Jobs by Project



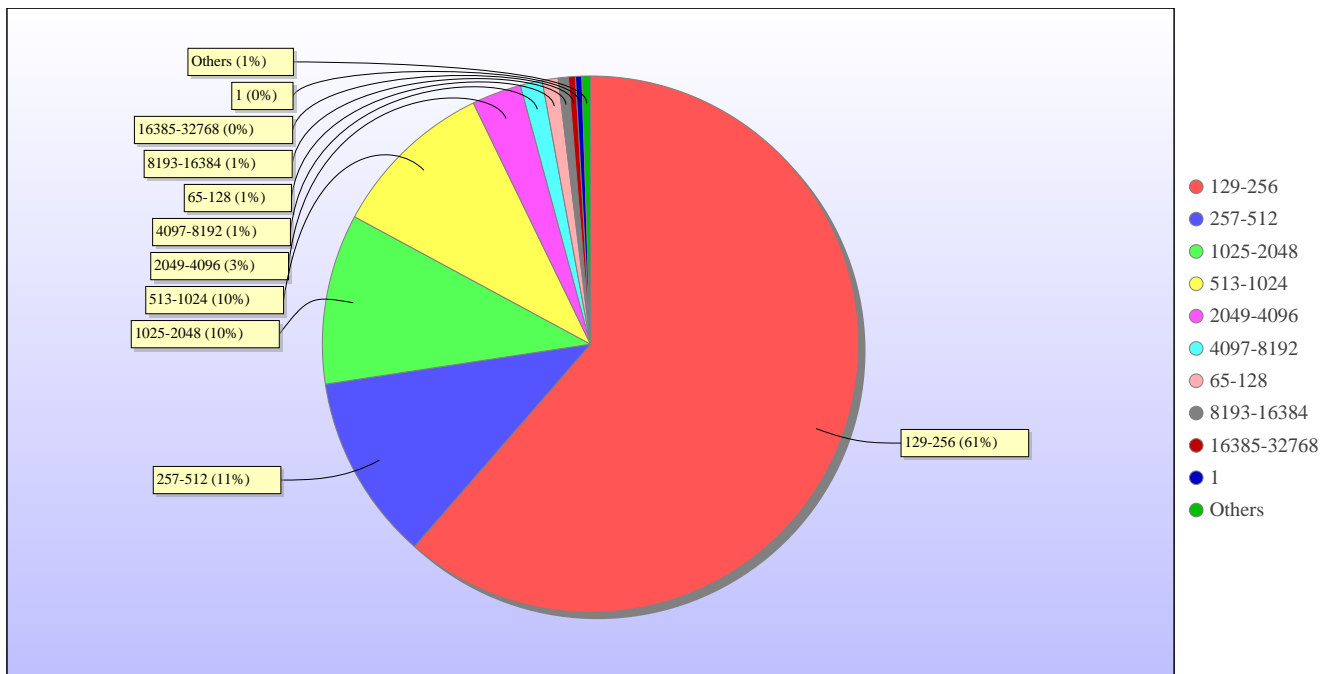
### CUs (by Size)

Size	CUs	Number of Jobs
1	0	239
2	0	11
3-4	0	23
5-8	0	62
9-16	0	57
17-32	0	54
33-64	0	53
65-128	0	604
129-256	61,970.331	38,646
257-512	42,797.757	7,062
513-1024	90,237.847	6,244
1025-2048	85,262.534	6,461
2049-4096	82,861.311	1,881
4097-8192	101,265.493	831
8193-16384	52,190.336	386
16385-32768	95,948.713	268
32769-65536	28,288.93	55
65537-131072	858.738	7
131073-262144	0.9	1

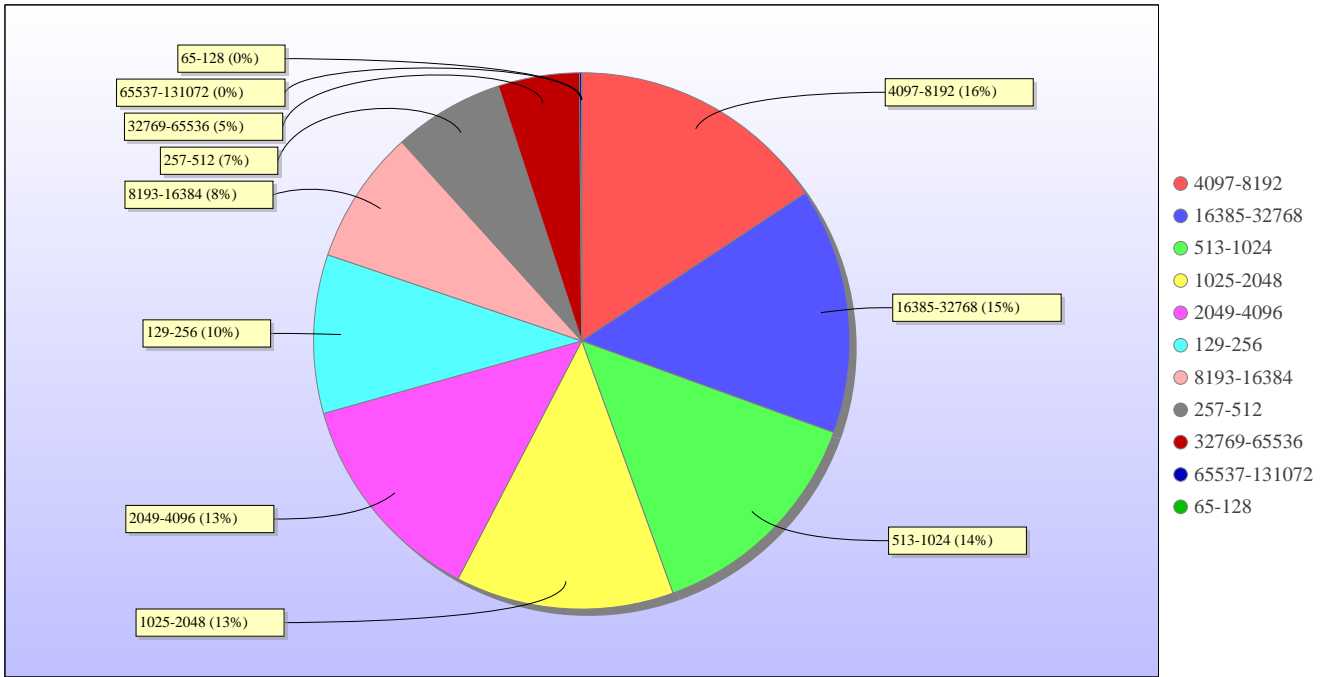
## Load plots



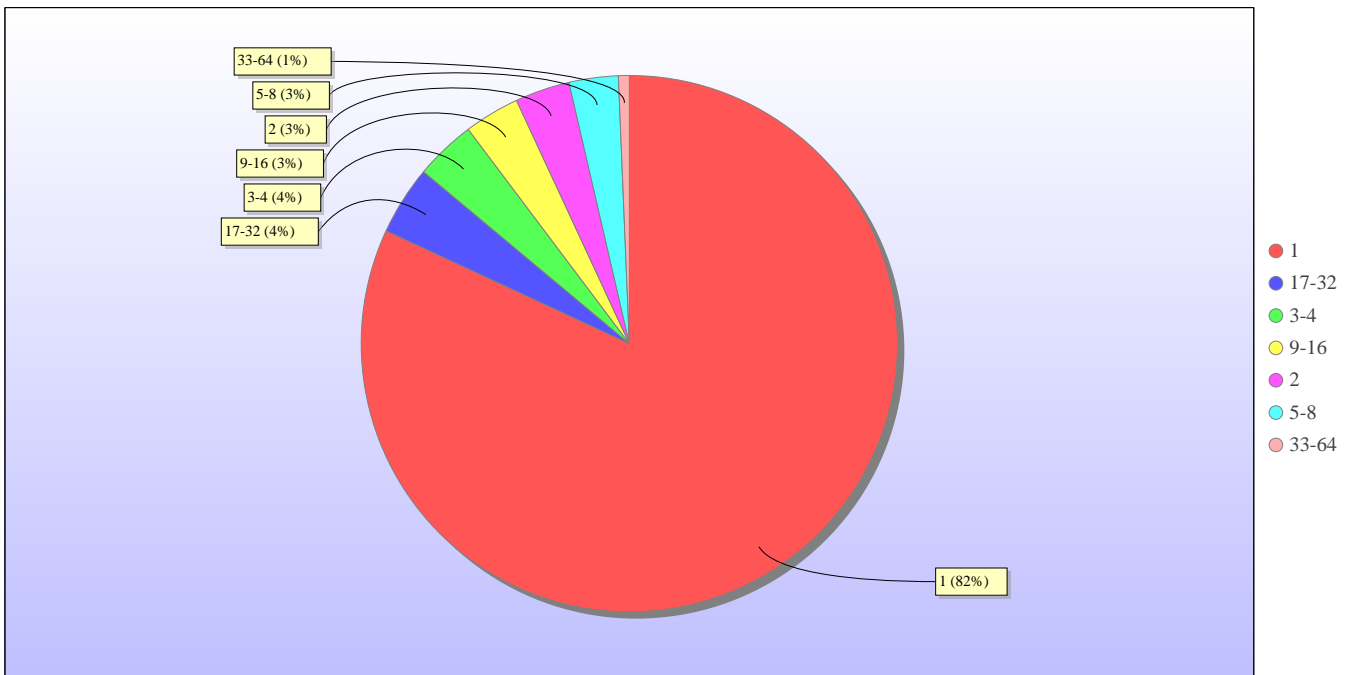
Percentage load on machine



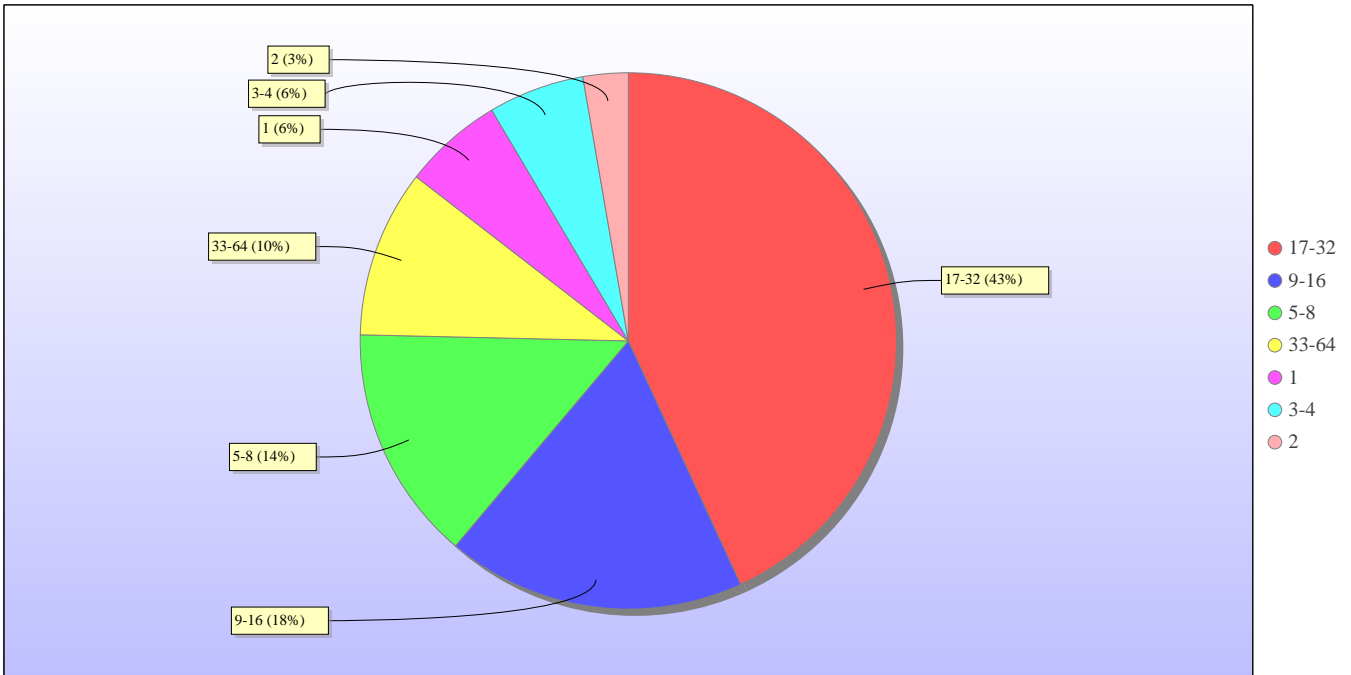
Jobs by Size



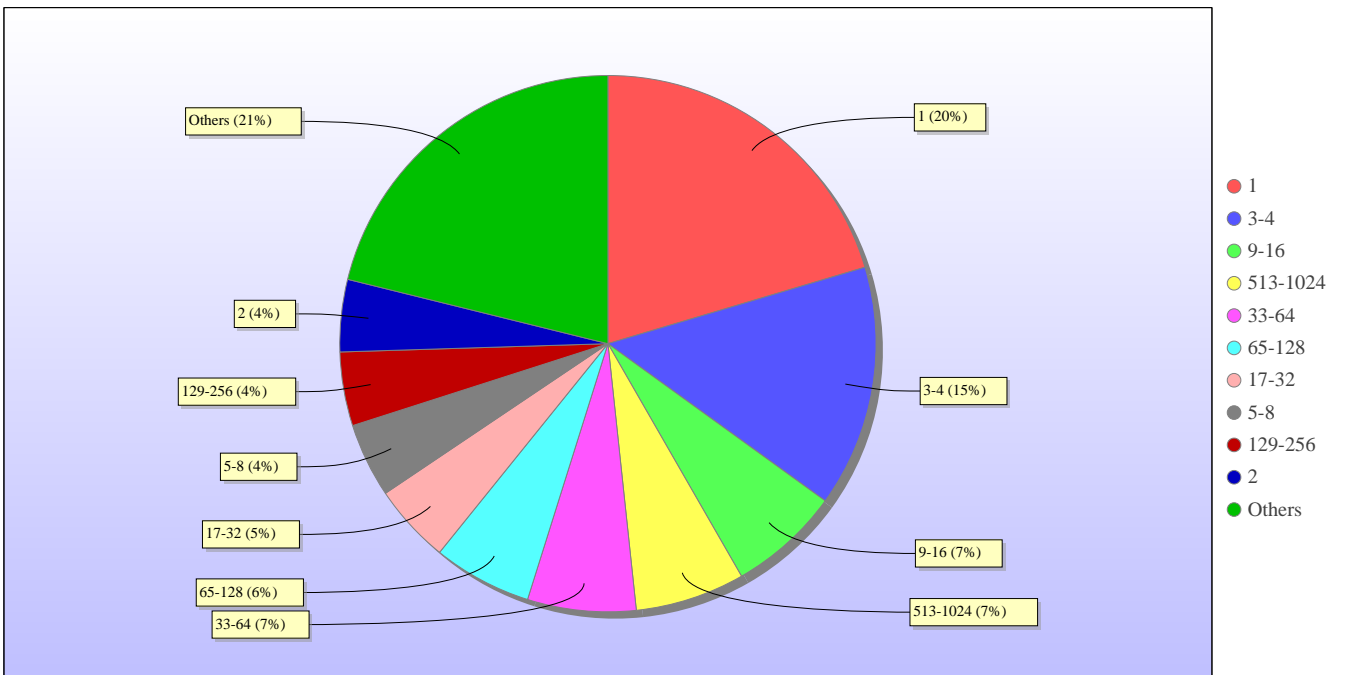
CUs used by Size



Jobs grouped by wall-clock-hours

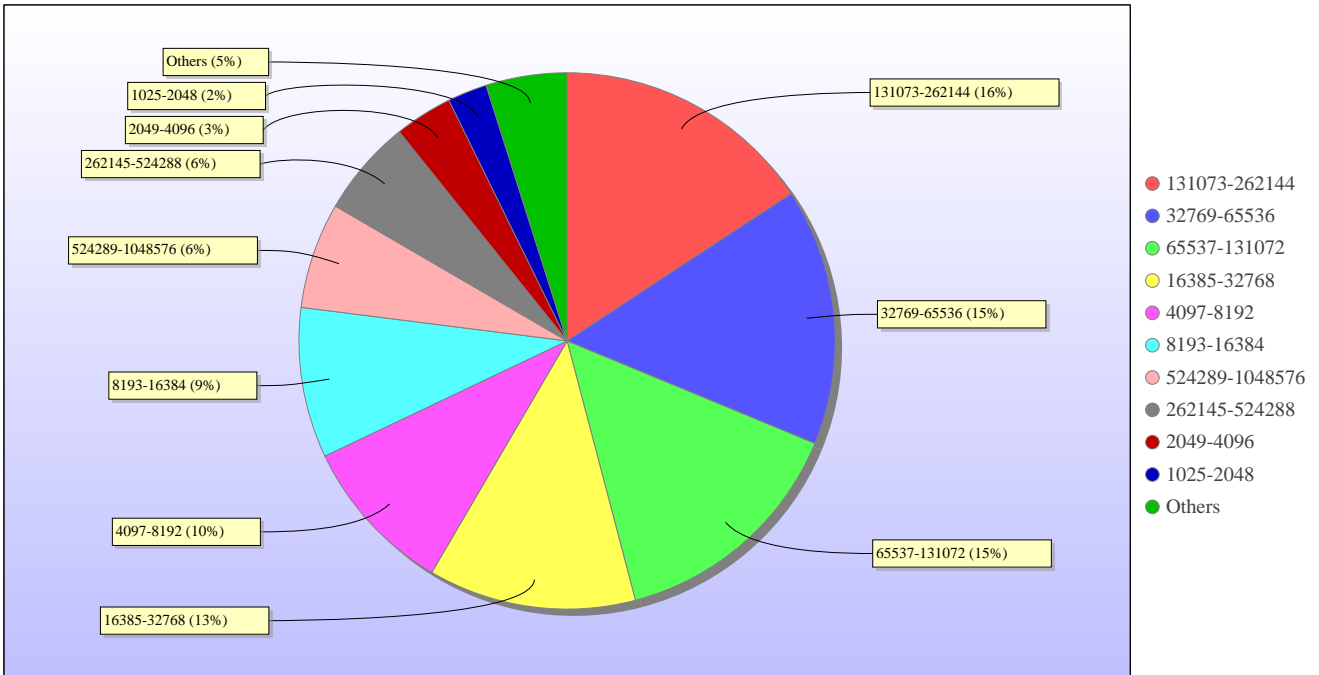


CU used grouped by wall-clock-hours



Jobs grouped by core-hours



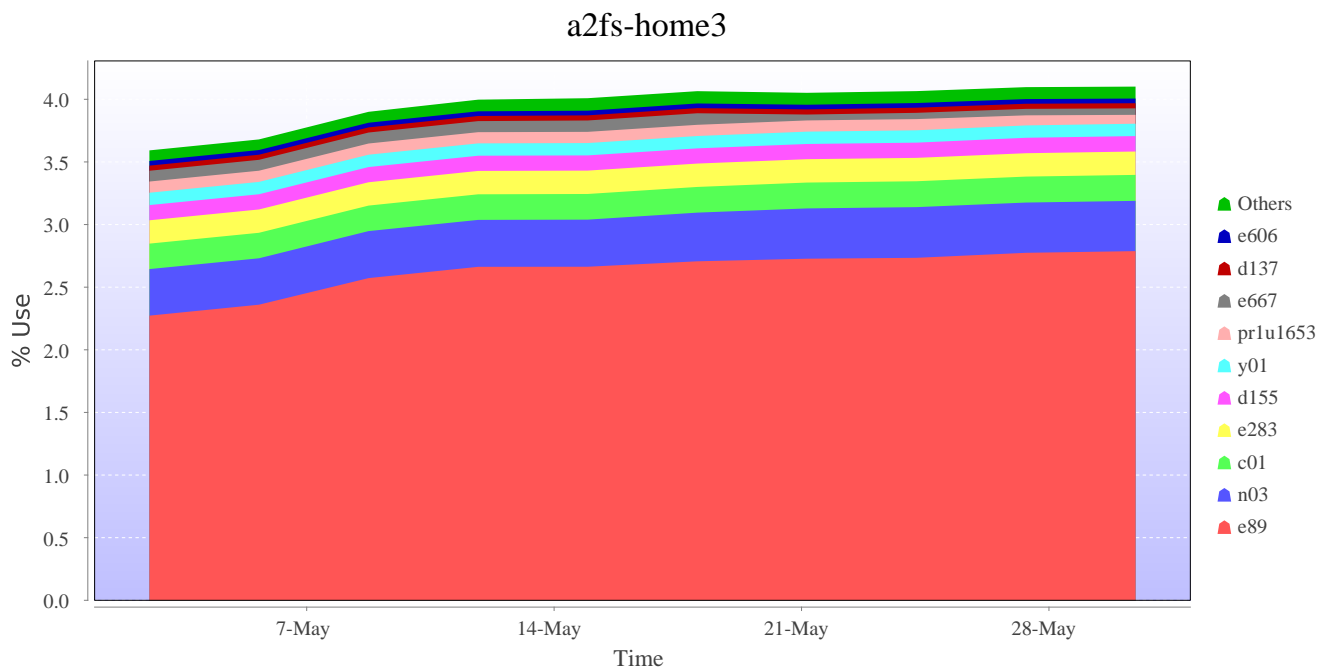


CUs used grouped by core-hours



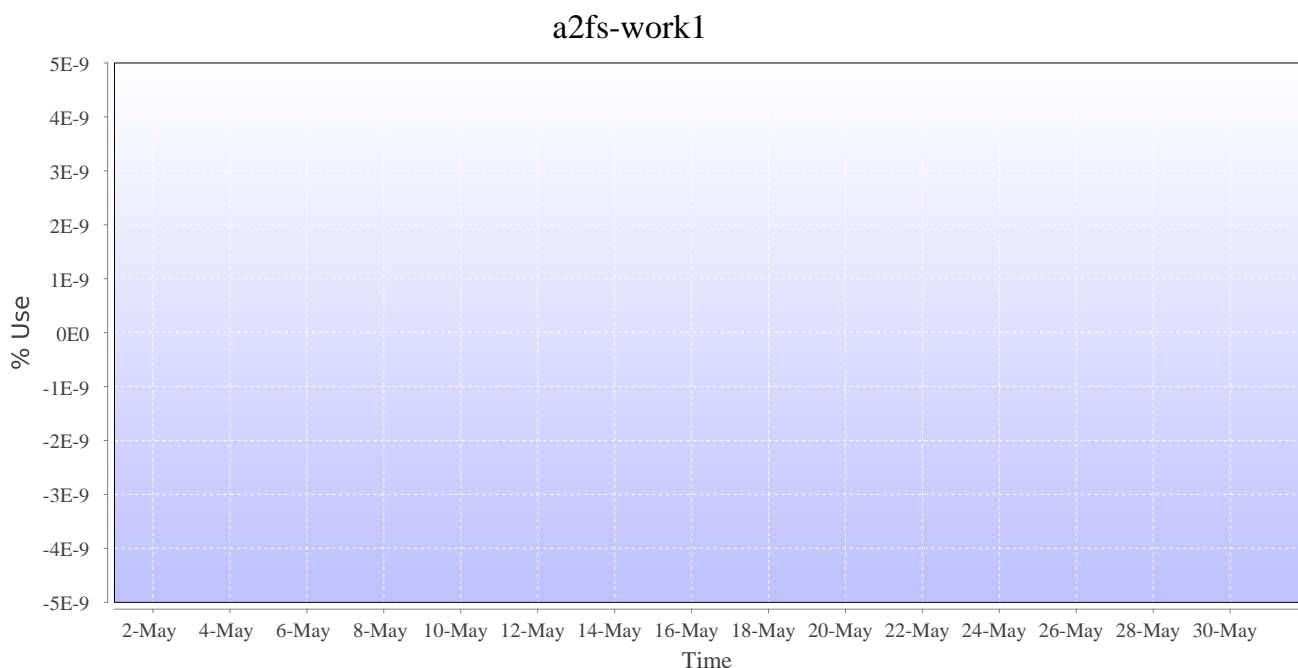
## Disk usage for home ( a2fs-home3 )

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.



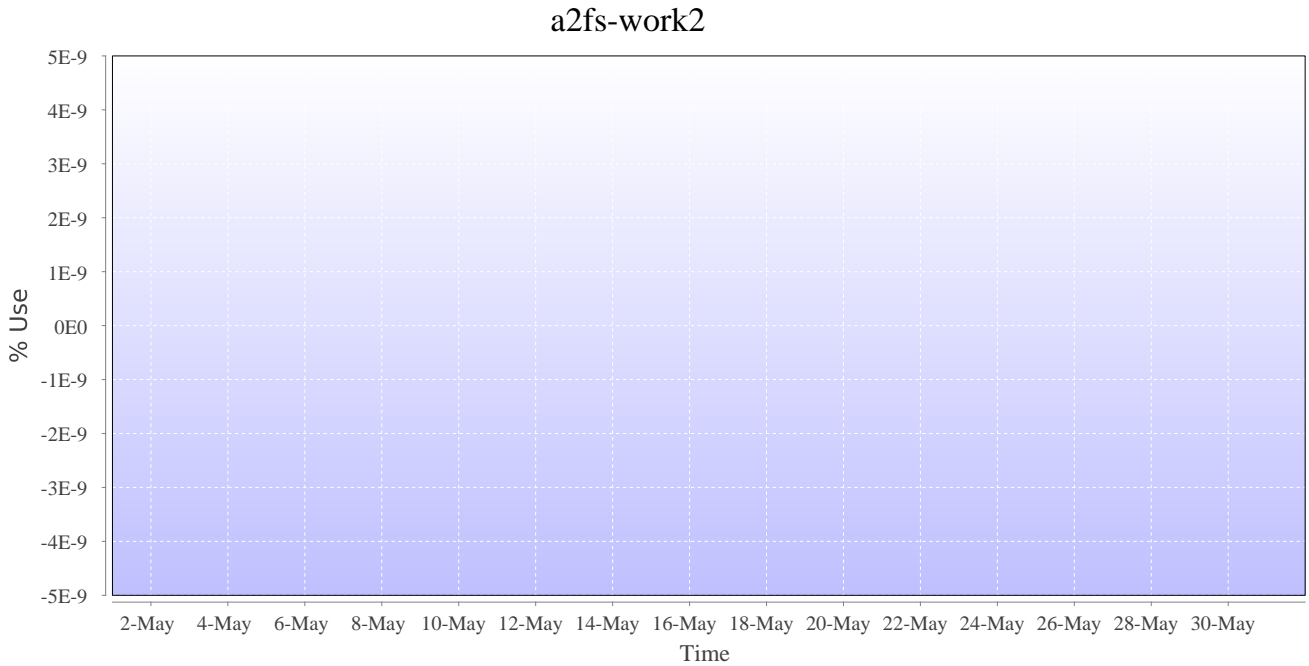
## Disk usage for work ( a2fs-work1 )

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.



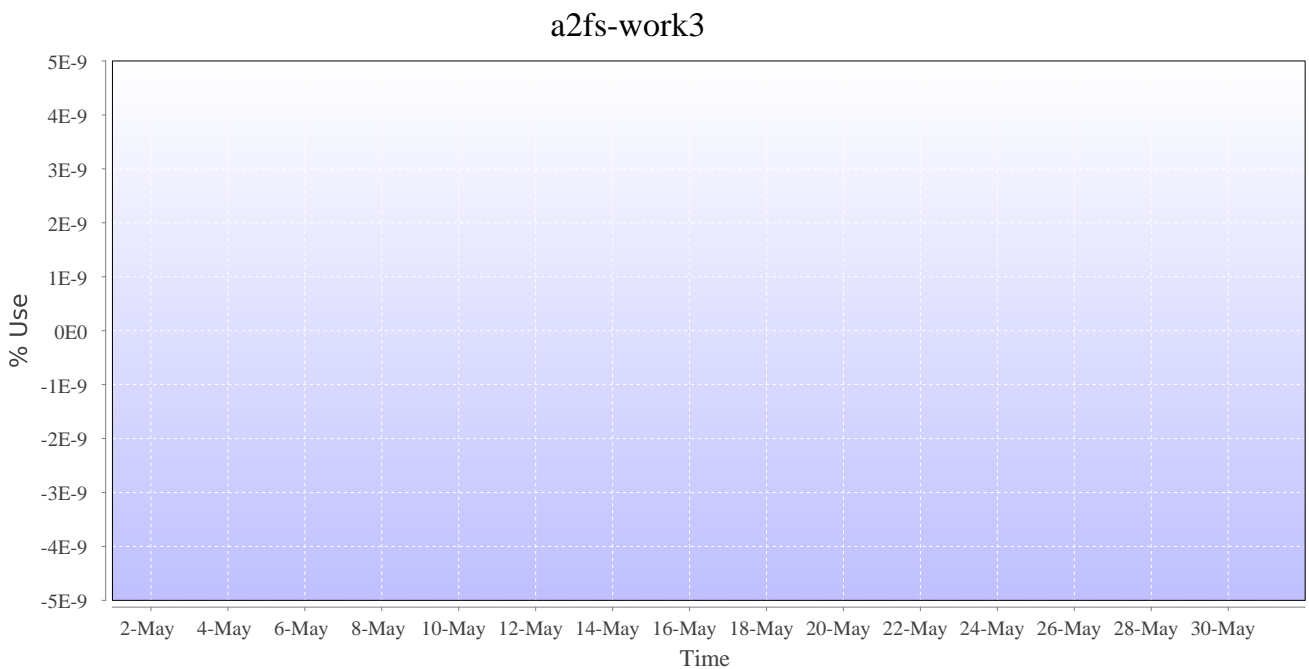
## Disk usage for work ( a2fs-work2 )

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.



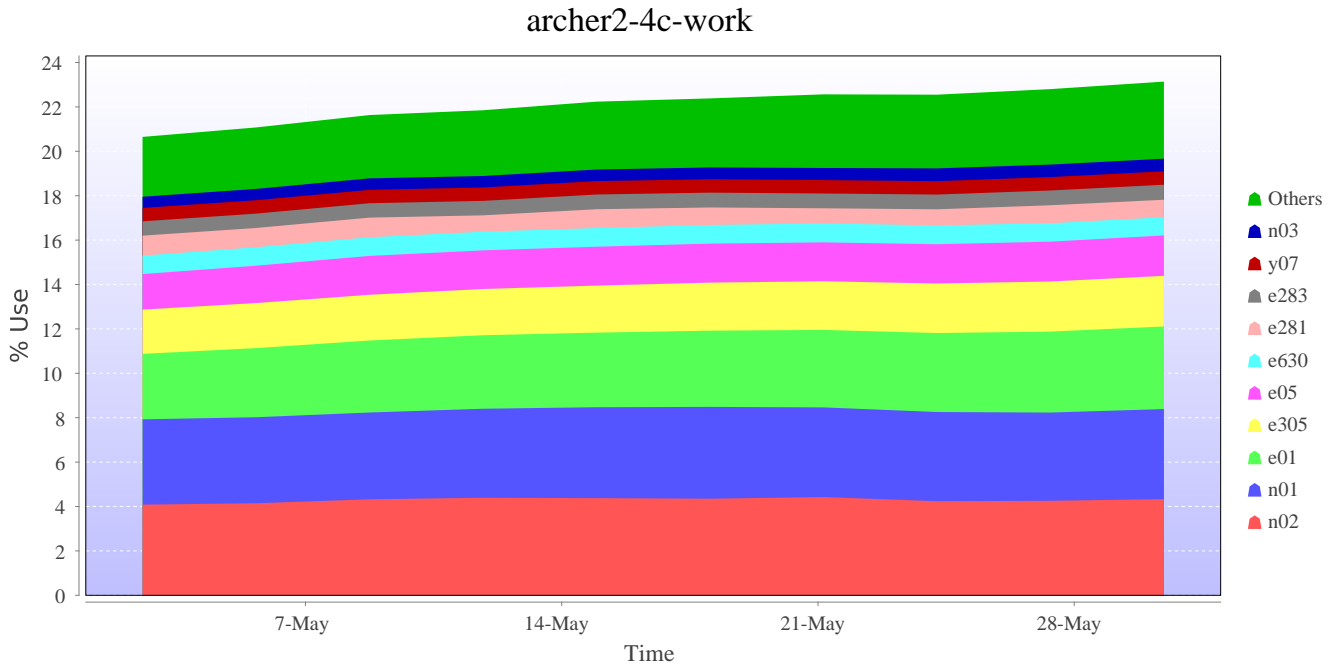
## Disk usage for work ( a2fs-work3 )

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.



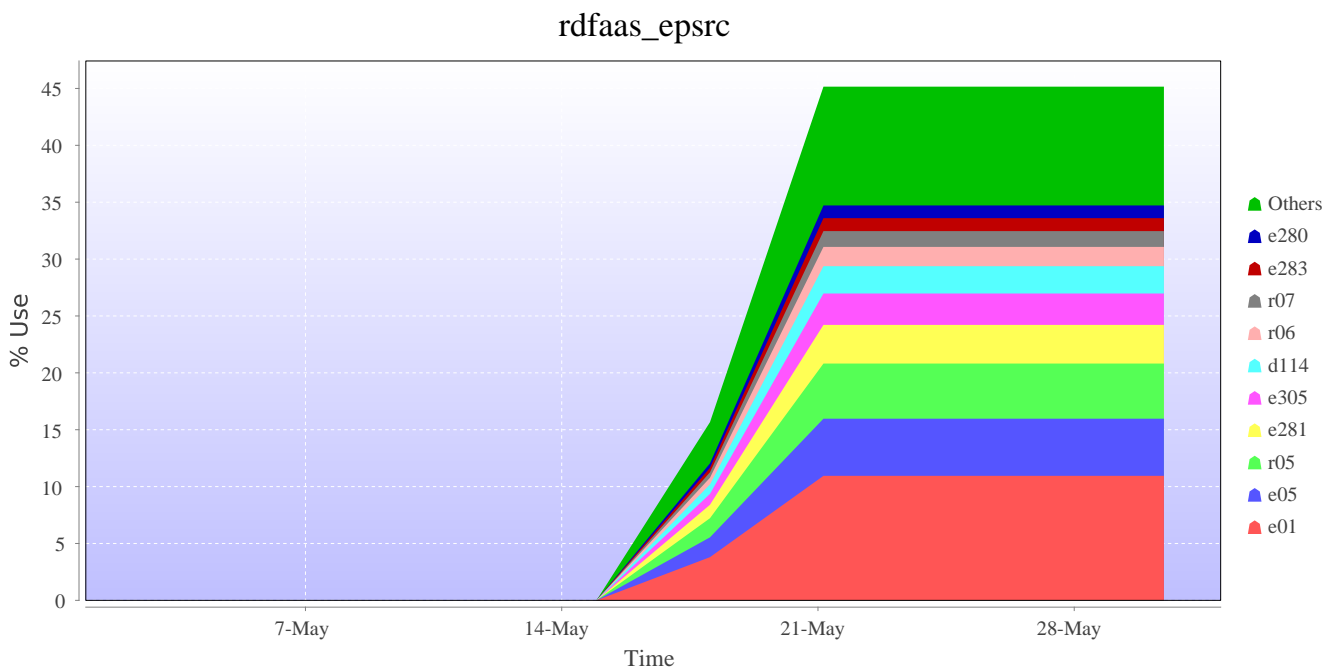
## Disk usage for work-4cab ( archer2-4c-work )

This is a plot of Disk Use on archer2-4c-work 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.

