

# Monthly Reporting

## Report from 01 January 2023 to 31 January 2023

### Report for Resource Pool Archer2 on archer2

A total of 4,350,912 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.

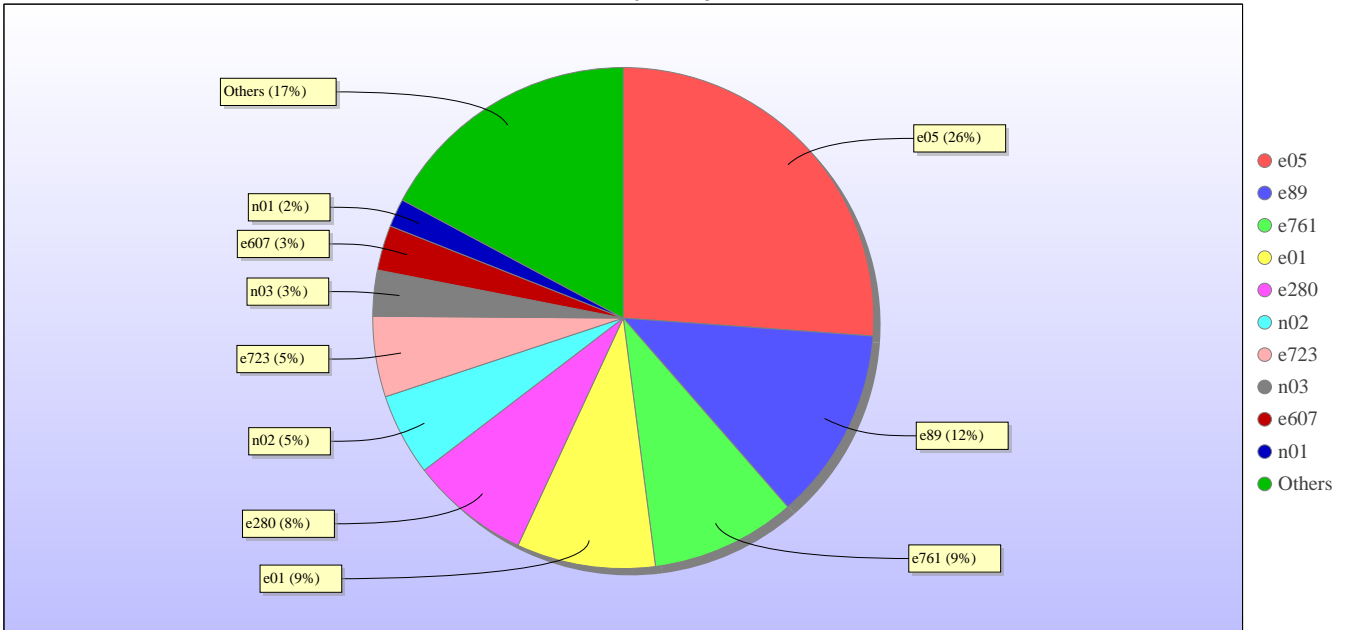
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e572	Leadership Awards	394	105.4	0.00%	105.4	0.00%	2,140.4	0.05%
e684	Leadership Awards	18	14.2	0.00%	14.2	0.00%	1,511.6	0.03%
e683	Pioneer Projects	21,626	11,750.2	0.27%	11,750.2	0.27%	14,253.0	0.33%
e685	Pioneer Projects	4,789	31,549.3	0.73%	51,746.8	1.19%	11,477.8	0.26%
e686	Pioneer Projects	558	30,769.5	0.71%	30,769.5	0.71%	18,844.1	0.43%
e687	Pioneer Projects	192	4,871.8	0.11%	4,871.8	0.11%	22,338.8	0.51%
e688	Pioneer Projects	41	114.9	0.00%	122.7	0.00%	34,047.9	0.78%
e689	Pioneer Projects	6	22,770.8	0.52%	22,770.8	0.52%	23,640.8	0.54%
e690	Pioneer Projects	193	19,426.6	0.45%	28,131.0	0.65%	25,696.5	0.59%
e691	Pioneer Projects	20	299.7	0.01%	299.7	0.01%	26,198.1	0.60%
e692	Pioneer Projects	20	19,024.6	0.44%	19,987.3	0.46%	19,776.0	0.45%
c01	Class1a	861	13,667.5	0.31%	13,679.2	0.31%	27,337.9	0.63%
e348	Class1a	1,394	5,032.0	0.12%	5,032.0	0.12%	14,355.8	0.33%
e575	Class1a	2,878	12,040.9	0.28%	12,040.9	0.28%	3,424.6	0.08%
e607	Class1a	280	5,608.7	0.13%	118,827.8	2.73%	10,017.1	0.23%
e609	Class1a	506	346.2	0.01%	3,186.2	0.07%	8,565.5	0.20%
e642	Class1a	14	1,186.6	0.03%	1,186.6	0.03%	468.0	0.01%
e643	Class1a	197	81.9	0.00%	88.8	0.00%	3,029.2	0.07%
e647	Class1a	79	4.7	0.00%	13.7	0.00%	2,980.6	0.07%
e649	Class1a	0	0.0	0.00%	0.0	0.00%	768.8	0.02%
e655	Class1a	30	15.2	0.00%	11,391.4	0.26%	2,811.5	0.06%
e663	Class1a	97	1,050.0	0.02%	1,050.0	0.02%	3,054.0	0.07%
e664	Class1a	0	0.0	0.00%	0.0	0.00%	899.3	0.02%
e667	Class1a	68	1,443.1	0.03%	1,443.1	0.03%	2,111.6	0.05%
e694	Class1a	436	3,426.9	0.08%	3,432.4	0.08%	2,880.9	0.07%
e696	Class1a	37	37.0	0.00%	37.0	0.00%	419.8	0.01%
e697	Class1a	65	0.0	0.00%	21,504.5	0.49%	8,922.3	0.21%
e700	Class1a	77	247.8	0.01%	247.8	0.01%	2,826.6	0.06%
e701	Class1a	0	0.0	0.00%	0.0	0.00%	1,901.5	0.04%
e705	Class1a	87	4,413.5	0.10%	4,413.5	0.10%	3,750.8	0.09%
e707	Class1a	99	19,279.0	0.44%	19,279.0	0.44%	17,569.9	0.40%

Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e708	Class1a	0	0.0	0.00%	0.0	0.00%	4,684.9	0.11%
e710	Class1a	33	386.0	0.01%	386.0	0.01%	4,109.6	0.09%
e712	Class1a	0	0.0	0.00%	0.0	0.00%	13,478.3	0.31%
e720	Class1a	503	29,969.3	0.69%	30,778.6	0.71%	22,823.8	0.52%
e721	Class1a	0	0.0	0.00%	0.0	0.00%	2,810.4	0.06%
e724	Class1a	0	0.0	0.00%	0.0	0.00%	11,815.0	0.27%
e728	Class1a	108	674.9	0.02%	674.9	0.02%	2,431.8	0.06%
e751	Class1a	174	2,995.5	0.07%	2,995.5	0.07%	5,135.9	0.12%
e752	Class1a	0	0.0	0.00%	0.0	0.00%	3,576.9	0.08%
e758	Class1a	39	112.1	0.00%	112.1	0.00%	3,597.3	0.08%
e761	Class1a	192	0.0	0.00%	381,988.1	8.78%	1,566.0	0.04%
e763	Class1a	0	0.0	0.00%	0.0	0.00%	171.3	0.00%
e764	Class1a	18	1,193.2	0.03%	1,193.2	0.03%	20,073.4	0.46%
e769	Class1a	32	14,087.5	0.32%	14,087.5	0.32%	25,553.3	0.59%
e786	Class1a	6	0.4	0.00%	0.4	0.00%	2,204.9	0.05%
e6337	Class1a	20	3,422.1	0.08%	3,434.7	0.08%	1,958.0	0.05%
e01	Consortia	2,187	202,429.9	4.65%	366,060.6	8.41%	351,220.1	8.07%
e05	Consortia	26,911	732,842.7	16.84%	1,067,625.6	24.54%	792,309.5	18.21%
e89	Consortia	46,346	458,241.1	10.53%	508,345.7	11.68%	380,651.2	8.75%
e280	Consortia	4,883	176,079.1	4.05%	314,610.8	7.23%	214,137.7	4.92%
e281	Consortia	1,029	69,549.8	1.60%	69,570.2	1.60%	95,933.7	2.20%
e283	Consortia	2,187	35,284.9	0.81%	40,210.8	0.92%	51,393.0	1.18%
e305	Consortia	14	2,501.2	0.06%	2,587.7	0.06%	0.0	0.00%
e585	Consortia	355	0.7	0.00%	21,258.1	0.49%	0.2	0.00%
e772	Consortia	320	5,098.8	0.12%	5,098.8	0.12%	58,724.5	1.35%
e773	Consortia	0	0.0	0.00%	0.0	0.00%	11,593.8	0.27%
e739	Pump Priming	0	0.0	0.00%	0.0	0.00%	678.4	0.02%
e754	Pump Priming	49	3,276.1	0.08%	3,276.1	0.08%	684.9	0.02%
e757	Pump Priming	0	0.0	0.00%	0.0	0.00%	616.8	0.01%
e759	Pump Priming	0	0.0	0.00%	0.0	0.00%	667.7	0.02%
e762	Pump Priming	13	0.0	0.00%	1,393.3	0.03%	397.3	0.01%
e766	Pump Priming	9	15.8	0.00%	15.8	0.00%	663.1	0.02%
e768	Pump Priming	0	0.0	0.00%	0.0	0.00%	685.2	0.02%
e771	Pump Priming	0	0.0	0.00%	0.0	0.00%	136.3	0.00%
e785	Pump Priming	66	2.6	0.00%	2.6	0.00%	373.0	0.01%
e507	Access to HPC	51	171.3	0.00%	171.3	0.00%	4,627.8	0.11%
e673	Access to HPC	8	3.0	0.00%	518.0	0.01%	3,426.2	0.08%
e677	Access to HPC	0	0.0	0.00%	0.0	0.00%	5,520.6	0.13%
e727	Access to HPC	179	3,746.4	0.09%	3,746.4	0.09%	3,312.3	0.08%
e734	Access to HPC	150	10,391.2	0.24%	10,391.2	0.24%	8,565.5	0.20%
e735	Access to HPC	0	0.0	0.00%	0.0	0.00%	7,038.1	0.16%
e742	Access to HPC	123	514.3	0.01%	514.3	0.01%	2,141.4	0.05%
e743	Access to HPC	46	13,452.2	0.31%	13,452.2	0.31%	7,470.2	0.17%
e744	Access to HPC	62	2,060.2	0.05%	2,730.6	0.06%	5,095.8	0.12%
e745	Access to HPC	17	0.0	0.00%	19,108.6	0.44%	1,931.5	0.04%
e746	Access to HPC	0	0.0	0.00%	0.0	0.00%	15,595.7	0.36%
e747	Access to HPC	56	56,347.7	1.30%	62,416.4	1.43%	56,807.6	1.31%
e748	Access to HPC	274	43,173.0	0.99%	43,175.0	0.99%	25,962.5	0.60%
e755	Access to HPC	95	4,282.0	0.10%	4,282.0	0.10%	7,565.1	0.17%
e774	Access to HPC	545	1,819.8	0.04%	1,819.8	0.04%	9,771.8	0.22%
e775	Access to HPC	33	11,635.7	0.27%	11,635.7	0.27%	15,739.4	0.36%
e776	Access to HPC	104	745.0	0.02%	745.0	0.02%	5,823.6	0.13%
e777	Access to HPC	0	0.0	0.00%	0.0	0.00%	7,082.7	0.16%
e778	Access to HPC	38	470.4	0.01%	470.4	0.01%	8,373.3	0.19%
e779	Access to HPC	10	0.8	0.00%	0.8	0.00%	787.0	0.02%
e780	Access to HPC	0	0.0	0.00%	0.0	0.00%	6,295.7	0.14%
e781	Access to HPC	0	0.0	0.00%	0.0	0.00%	1,573.9	0.04%
e782	Access to HPC	117	1,703.8	0.04%	1,703.8	0.04%	2,173.8	0.05%
e783	Access to HPC	95	68.3	0.00%	68.3	0.00%	5,741.8	0.13%
<b>EPSRC Total</b>		<b>122,559</b>	<b>2,097,326.7</b>	<b>48.20%</b>	<b>3,400,079.9</b>	<b>78.15%</b>	<b>2,623,303.6</b>	<b>60.29%</b>
n01	Consortia	3,093	65,225.7	1.50%	74,347.2	1.71%	149,989.0	3.45%
n02	Consortia	29,981	213,373.4	4.90%	216,605.7	4.98%	534,813.7	12.29%
n03	Consortia	1,877	120,897.0	2.78%	120,928.5	2.78%	166,126.0	3.82%

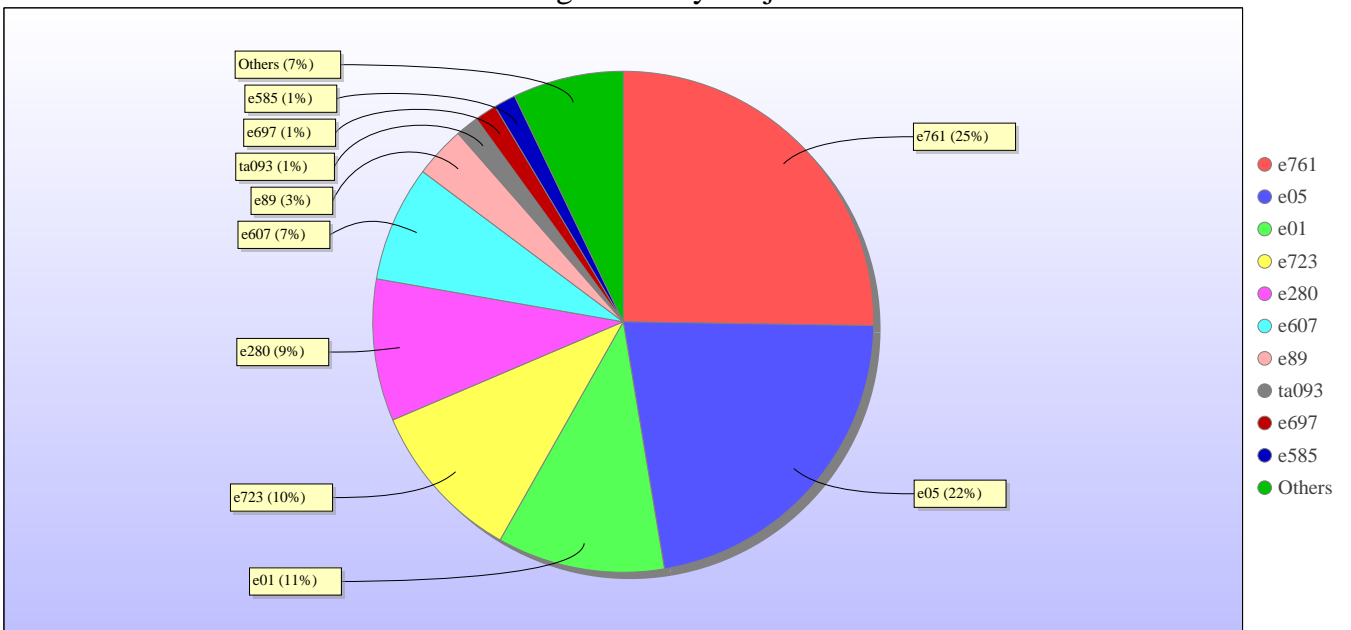
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
n09	Pump Priming	0	0.0	0.00%	0.0	0.00%	681.5	0.02%
<b>NERC Total</b>		<b>34,951</b>	<b>399,496.1</b>	<b>9.18%</b>	<b>411,881.4</b>	<b>9.47%</b>	<b>851,610.2</b>	<b>19.57%</b>
b19	Class1a	21	812.6	0.02%	812.6	0.02%	2,724.3	0.06%
<b>BBSRC Total</b>		<b>21</b>	<b>812.6</b>	<b>0.02%</b>	<b>812.6</b>	<b>0.02%</b>	<b>2,724.3</b>	<b>0.06%</b>
e756	Leadership Awards	17	0.4	0.00%	0.4	0.00%	5,122.2	0.12%
e760	Leadership Awards	0	0.0	0.00%	0.0	0.00%	1,227.6	0.03%
e723	Class1a	594	54,972.0	1.26%	212,484.7	4.88%	42,592.2	0.98%
e738	Class1a	0	0.0	0.00%	0.0	0.00%	15,445.4	0.35%
<b>UKRI Total</b>		<b>611</b>	<b>54,972.5</b>	<b>1.26%</b>	<b>212,485.1</b>	<b>4.88%</b>	<b>64,387.3</b>	<b>1.48%</b>
pr1u1555	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	355.1	0.01%
pr1u1751	DECI: EXEC	7	72.2	0.00%	72.2	0.00%	0.0	0.00%
pr1u1756	DECI: EXEC	147	3,537.2	0.08%	3,537.2	0.08%	6,432.2	0.15%
<b>PRACE Total</b>		<b>154</b>	<b>3,609.5</b>	<b>0.08%</b>	<b>3,609.5</b>	<b>0.08%</b>	<b>6,787.3</b>	<b>0.16%</b>
ecseaa26	eCSE	41	128.7	0.00%	128.7	0.00%	310.8	0.01%
ecseac14	eCSE	0	0.0	0.00%	0.0	0.00%	65.3	0.00%
ecseac15	eCSE	0	0.0	0.00%	0.0	0.00%	134.1	0.00%
ecsead01	eCSE	0	0.0	0.00%	0.0	0.00%	6.3	0.00%
ecsead02	eCSE	0	0.0	0.00%	0.0	0.00%	163.0	0.00%
ecsead03	eCSE	0	0.0	0.00%	0.0	0.00%	128.5	0.00%
ecsead06	eCSE	0	0.0	0.00%	0.0	0.00%	340.7	0.01%
ecsead08	eCSE	20	544.4	0.01%	3,374.5	0.08%	110.5	0.00%
ecseae03	eCSE	101	0.0	0.00%	389.0	0.01%	93.6	0.00%
ecseae04	eCSE	300	33.2	0.00%	33.2	0.00%	119.5	0.00%
ecseae08	eCSE	0	0.0	0.00%	0.0	0.00%	119.2	0.00%
ecseae09	eCSE	0	0.0	0.00%	0.0	0.00%	116.7	0.00%
ecseaf01	eCSE	21	3.8	0.00%	3.8	0.00%	104.4	0.00%
ecseaf02	eCSE	0	0.0	0.00%	0.0	0.00%	52.7	0.00%
ecseaf03	eCSE	0	0.0	0.00%	0.0	0.00%	50.7	0.00%
ecseaf04	eCSE	0	0.0	0.00%	0.0	0.00%	65.1	0.00%
ecseaf06	eCSE	0	0.0	0.00%	0.0	0.00%	100.8	0.00%
ecseag01	eCSE	0	0.0	0.00%	0.0	0.00%	68.9	0.00%
ecseag02	eCSE	0	0.0	0.00%	0.0	0.00%	87.1	0.00%
ecseag03	eCSE	0	0.0	0.00%	0.0	0.00%	62.9	0.00%
ecseag06	eCSE	103	0.7	0.00%	1.6	0.00%	43.1	0.00%
ecseag08	eCSE	0	0.0	0.00%	0.0	0.00%	58.4	0.00%
ecseag09	eCSE	0	0.0	0.00%	0.0	0.00%	62.7	0.00%
ecseah03	eCSE	0	0.0	0.00%	0.0	0.00%	35.0	0.00%
ecseah06	eCSE	0	0.0	0.00%	0.0	0.00%	109.6	0.00%
<b>eCSE Total</b>		<b>586</b>	<b>710.9</b>	<b>0.02%</b>	<b>3,930.9</b>	<b>0.09%</b>	<b>2,609.7</b>	<b>0.06%</b>
d35	Research	12	0.2	0.00%	0.2	0.00%	169.9	0.00%
d011	Research	0	0.0	0.00%	0.0	0.00%	175.6	0.00%
d114	Research	0	0.0	0.00%	0.0	0.00%	5,226.3	0.12%
d137	Research	196	1,064.6	0.02%	1,064.6	0.02%	1,686.1	0.04%
d142	Research	32	406.2	0.01%	406.2	0.01%	5,098.7	0.12%
d170	Research	0	0.0	0.00%	0.0	0.00%	50.5	0.00%
d175	Research	0	0.0	0.00%	0.0	0.00%	1,414.1	0.03%
d177	Research	0	0.0	0.00%	0.0	0.00%	52.1	0.00%
d193	Research	16	2.4	0.00%	4.9	0.00%	339.7	0.01%
d435	Research	35	1.1	0.00%	2.4	0.00%	84.9	0.00%
d436	Research	0	0.0	0.00%	0.0	0.00%	339.7	0.01%
dc129	Research	109	49.2	0.00%	49.2	0.00%	1,698.6	0.04%
d105	Industrial	0	0.0	0.00%	0.0	0.00%	3,368.8	0.08%
d181	Industrial	129	0.0	0.00%	14,694.9	0.34%	1,207.8	0.03%
d190	Industrial	0	0.0	0.00%	0.0	0.00%	1,698.6	0.04%
d433	Industrial	0	0.0	0.00%	0.0	0.00%	78.3	0.00%
d434	Industrial	0	0.0	0.00%	0.0	0.00%	15.7	0.00%
dc150	Industrial	0	0.0	0.00%	0.0	0.00%	366.9	0.01%
i01	Industrial	0	0.0	0.00%	0.0	0.00%	5.3	0.00%
i18	Industrial	18	2.9	0.00%	2.9	0.00%	2,351.2	0.05%
i21	Industrial	0	0.0	0.00%	0.0	0.00%	16,844.0	0.39%
i24	Industrial	0	0.0	0.00%	0.0	0.00%	33.7	0.00%

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i25	Industrial	0	0.0	0.00%	0.0	0.00%	101.3	0.00%
i26	Industrial	67	24.7	0.00%	24.7	0.00%	211.7	0.00%
i238	Industrial	0	0.0	0.00%	0.0	0.00%	505.3	0.01%
i239	Industrial	491	3,107.8	0.07%	3,107.8	0.07%	917.4	0.02%
i241	Industrial	0	0.0	0.00%	0.0	0.00%	3,273.2	0.08%
i242	Industrial	0	0.0	0.00%	0.0	0.00%	682.8	0.02%
i243	Industrial	0	0.0	0.00%	0.0	0.00%	241.6	0.01%
i244	Industrial	0	0.0	0.00%	0.0	0.00%	1,952.1	0.04%
d176	Training	108	20.9	0.00%	20.9	0.00%	31.6	0.00%
d180	Training	6	0.0	0.00%	0.0	0.00%	452.3	0.01%
m22oc	Training	35	4.9	0.00%	4.9	0.00%	392.4	0.01%
m22ol	Training	45	34.5	0.00%	34.5	0.00%	392.4	0.01%
m22ext	Training	0	0.0	0.00%	0.0	0.00%	157.0	0.00%
mdisspt	Training	0	0.0	0.00%	0.0	0.00%	148.7	0.00%
m22exts1	Training	0	0.0	0.00%	0.0	0.00%	78.5	0.00%
ta046	Training	0	0.0	0.00%	0.0	0.00%	32.0	0.00%
ta047	Training	0	0.0	0.00%	0.0	0.00%	32.0	0.00%
ta052	Training	0	0.0	0.00%	0.0	0.00%	511.4	0.01%
ta053	Training	0	0.0	0.00%	0.0	0.00%	33.6	0.00%
ta067	Training	0	0.0	0.00%	0.0	0.00%	19.1	0.00%
ta068	Training	0	0.0	0.00%	0.0	0.00%	19.1	0.00%
ta069	Training	0	0.0	0.00%	0.0	0.00%	19.1	0.00%
ta070	Training	41	140.6	0.00%	140.6	0.00%	609.8	0.01%
ta081	Training	0	0.0	0.00%	0.0	0.00%	3.3	0.00%
ta084	Training	3	0.0	0.00%	0.0	0.00%	763.8	0.02%
ta085	Training	0	0.0	0.00%	0.0	0.00%	38.3	0.00%
ta086	Training	0	0.0	0.00%	0.0	0.00%	19.1	0.00%
ta087	Training	0	0.0	0.00%	0.0	0.00%	19.1	0.00%
ta088	Training	0	0.0	0.00%	0.0	0.00%	37.3	0.00%
ta089	Training	6	0.1	0.00%	0.1	0.00%	14.8	0.00%
ta090	Training	0	0.0	0.00%	0.0	0.00%	4.0	0.00%
ta091	Training	0	0.0	0.00%	0.0	0.00%	20.0	0.00%
ta093	Training	484	450.6	0.01%	23,002.8	0.53%	748.8	0.02%
ta094	Training	131	539.3	0.01%	556.2	0.01%	510.3	0.01%
ta095	Training	0	0.0	0.00%	0.0	0.00%	63.8	0.00%
ta096	Training	0	0.0	0.00%	0.0	0.00%	63.8	0.00%
ta097	Training	0	0.0	0.00%	0.0	0.00%	63.8	0.00%
d191	Service	0	0.0	0.00%	0.0	0.00%	4.2	0.00%
y01	Service	0	0.0	0.00%	0.0	0.00%	74.8	0.00%
y02	Service	1,090	6.5	0.00%	7.9	0.00%	849.3	0.02%
y07	Service	3	0.0	0.00%	36.4	0.00%	82.9	0.00%
y23	Service	0	0.0	0.00%	0.0	0.00%	76.4	0.00%
z01	Service	0	0.0	0.00%	0.0	0.00%	8.3	0.00%
z02	Service	134	0.0	0.00%	0.1	0.00%	114.3	0.00%
z19	Service	547	7,913.6	0.18%	7,914.5	0.18%	42,582.4	0.98%
z99	Service	0	0.0	0.00%	0.0	0.00%	0.8	0.00%
DirectorsTime Total		3,738	13,770.1	0.32%	51,076.7	1.17%	99,284.4	2.28%
Total		162,620	2,570,698.3	59.08%	4,083,876.1	93.86%	3,650,706.9	83.91%

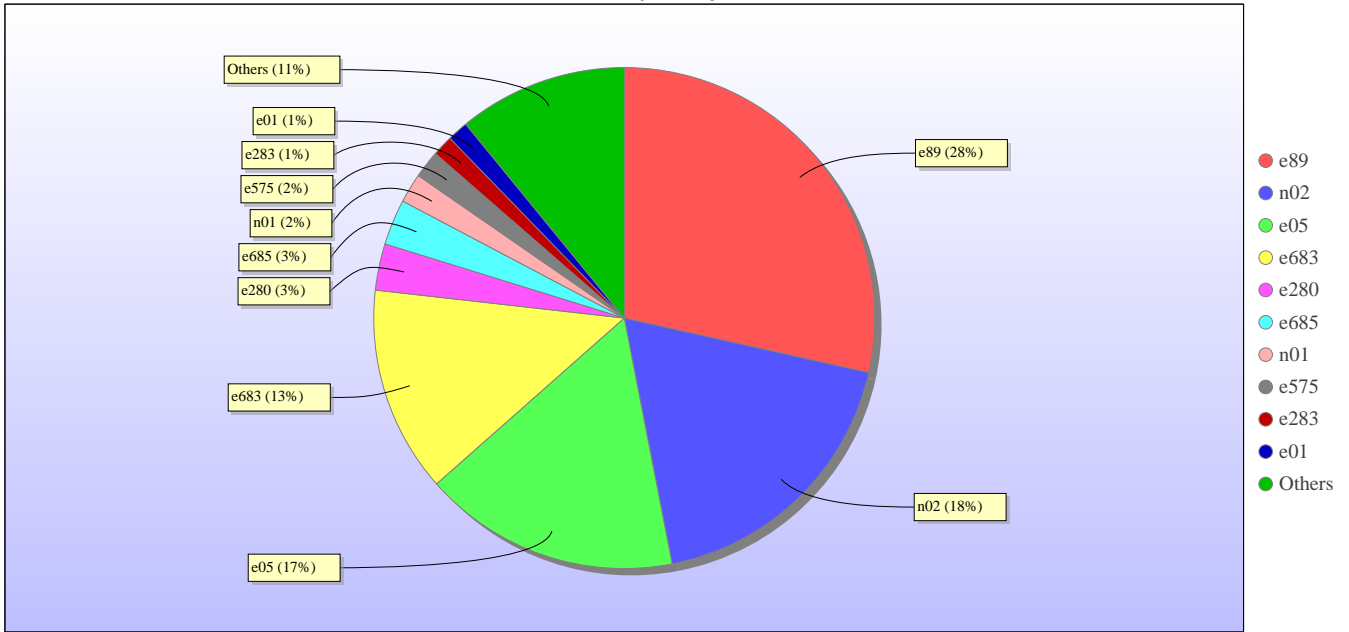
### Use by Project



### Uncharged Use by Project



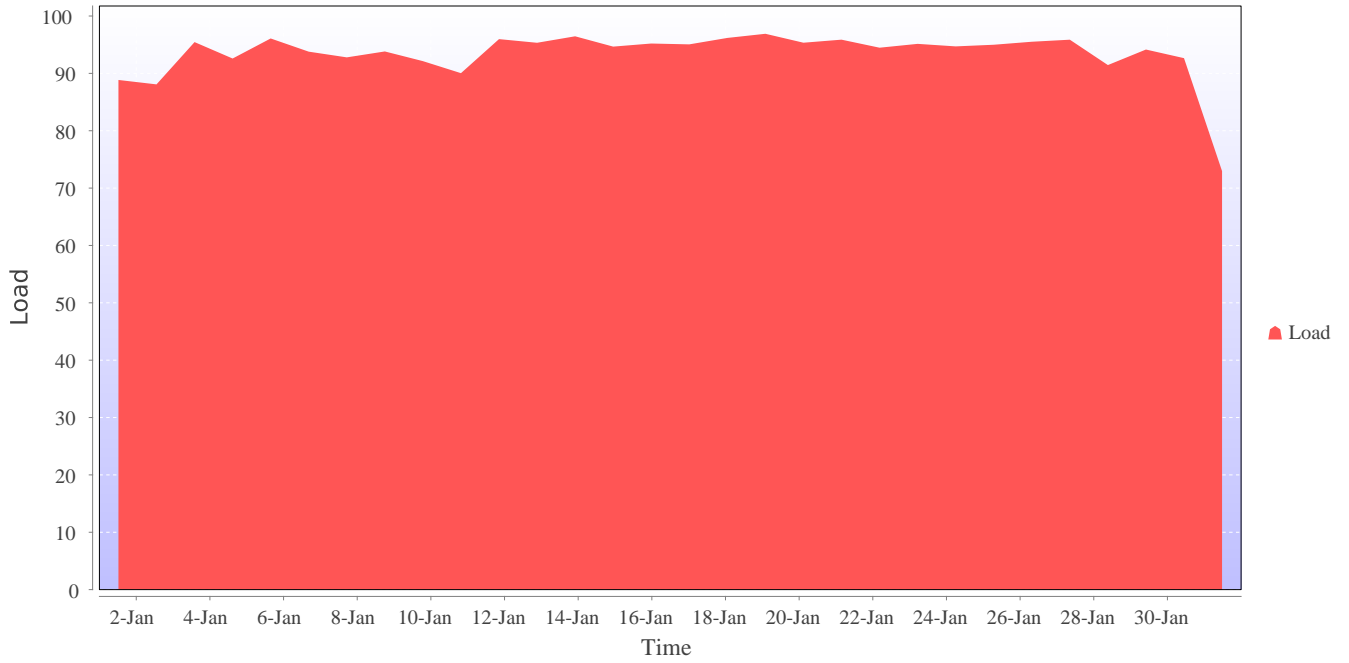
### Jobs by Project



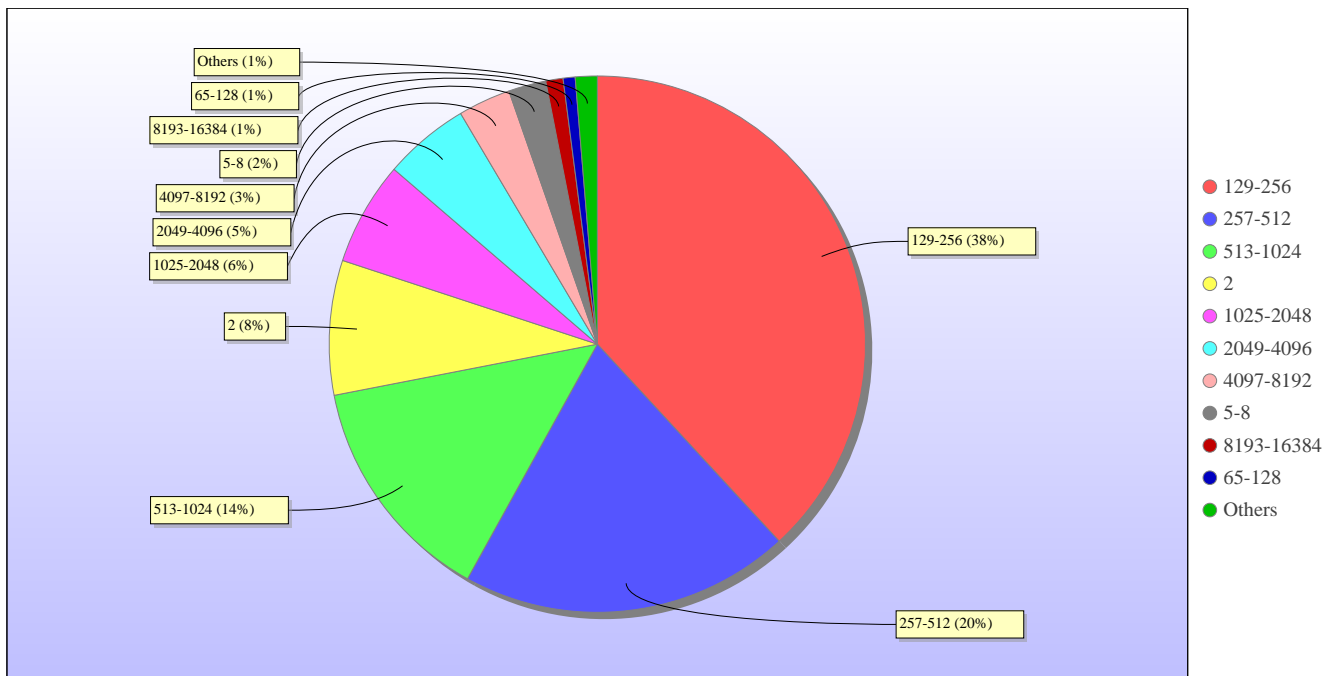
### CUs (by Size)

Size	CUs	Number of Jobs
1	0	202
2	0	13,191
3-4	0	26
5-8	0	3,682
9-16	0	73
17-32	0	197
33-64	0	129
65-128	0	1,176
129-256	104,028.471	62,019
257-512	118,131.299	32,373
513-1024	226,275.21	22,600
1025-2048	321,468.047	10,167
2049-4096	488,980.725	8,425
4097-8192	465,304.345	5,147
8193-16384	427,867.369	1,694
16385-32768	184,562.5	913
32769-65536	117,288.436	426
65537-131072	61,151.042	106
131073-262144	46,617.696	71
262145-524288	9,023.147	2
524289-1048576	0	1

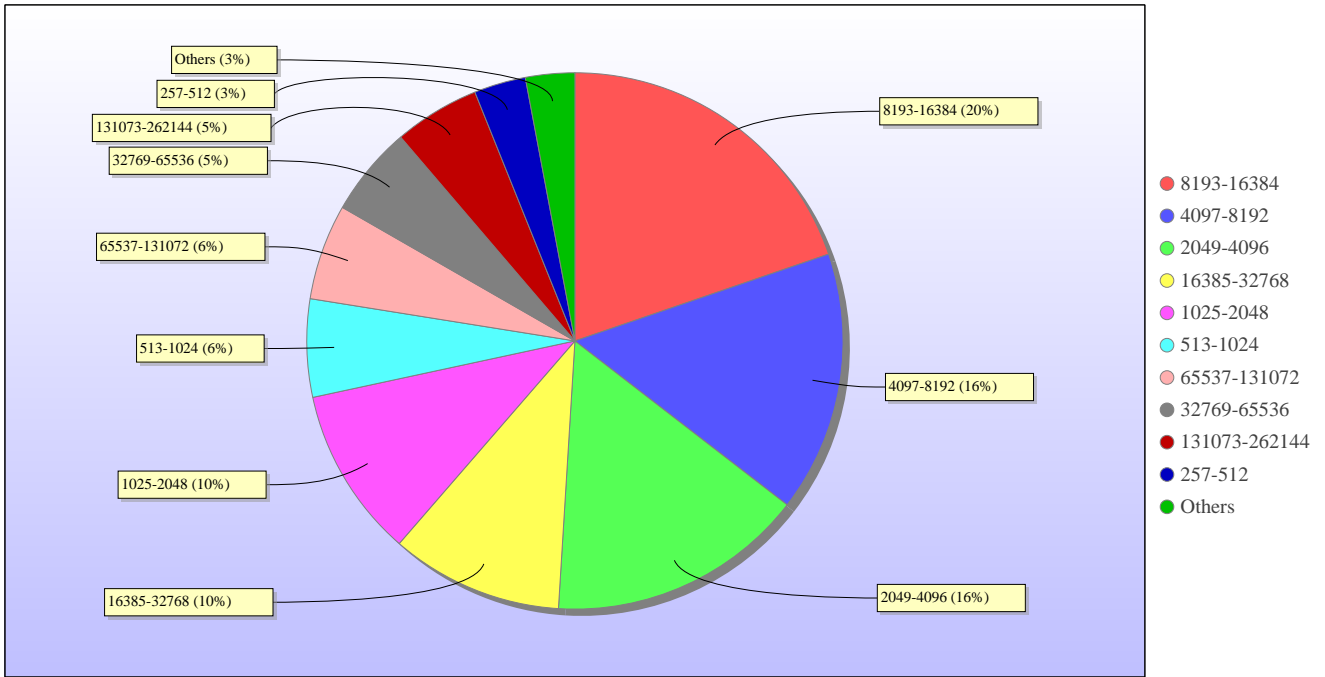
## Load plots



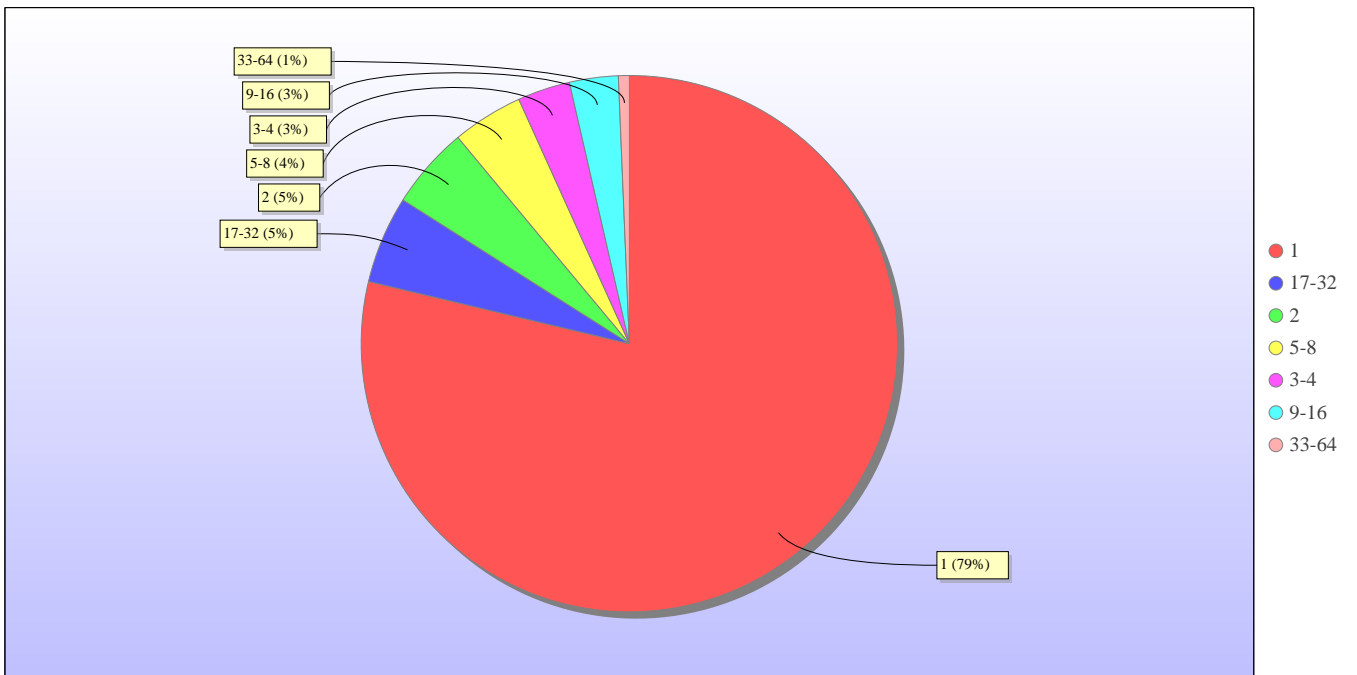
Percentage load on machine



Jobs by Size

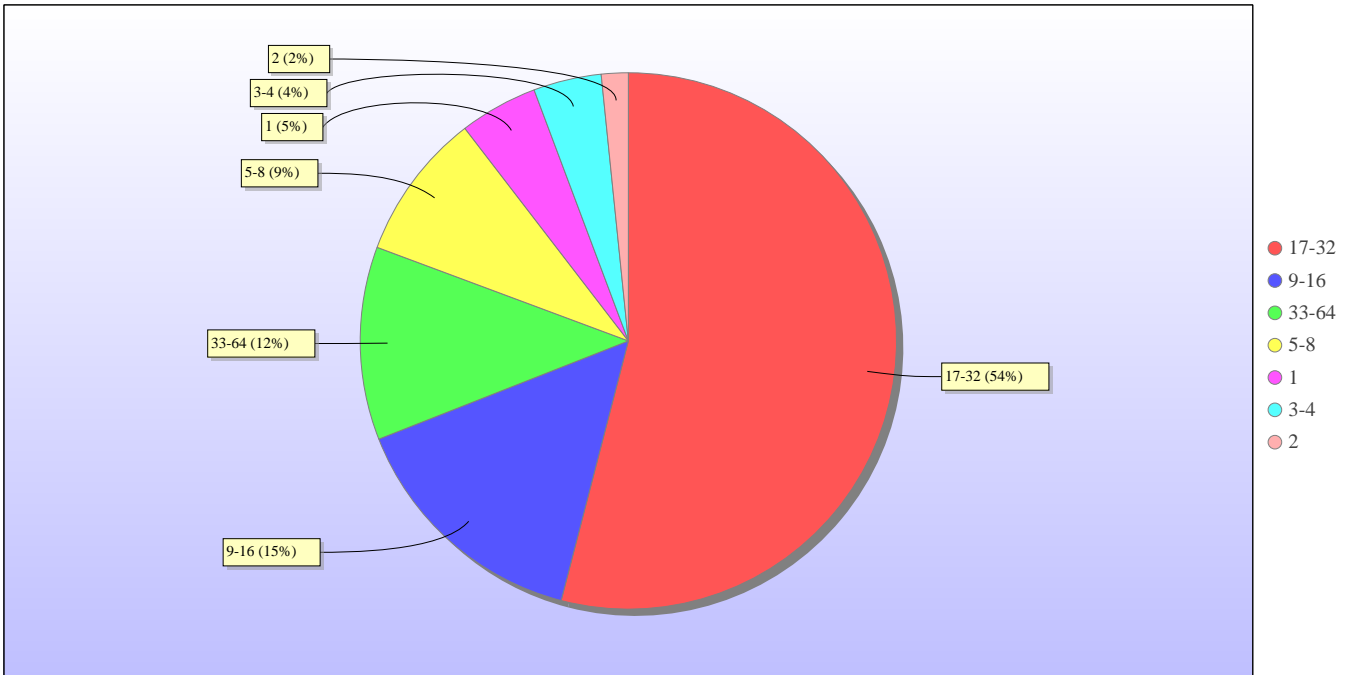


CUs used by Size

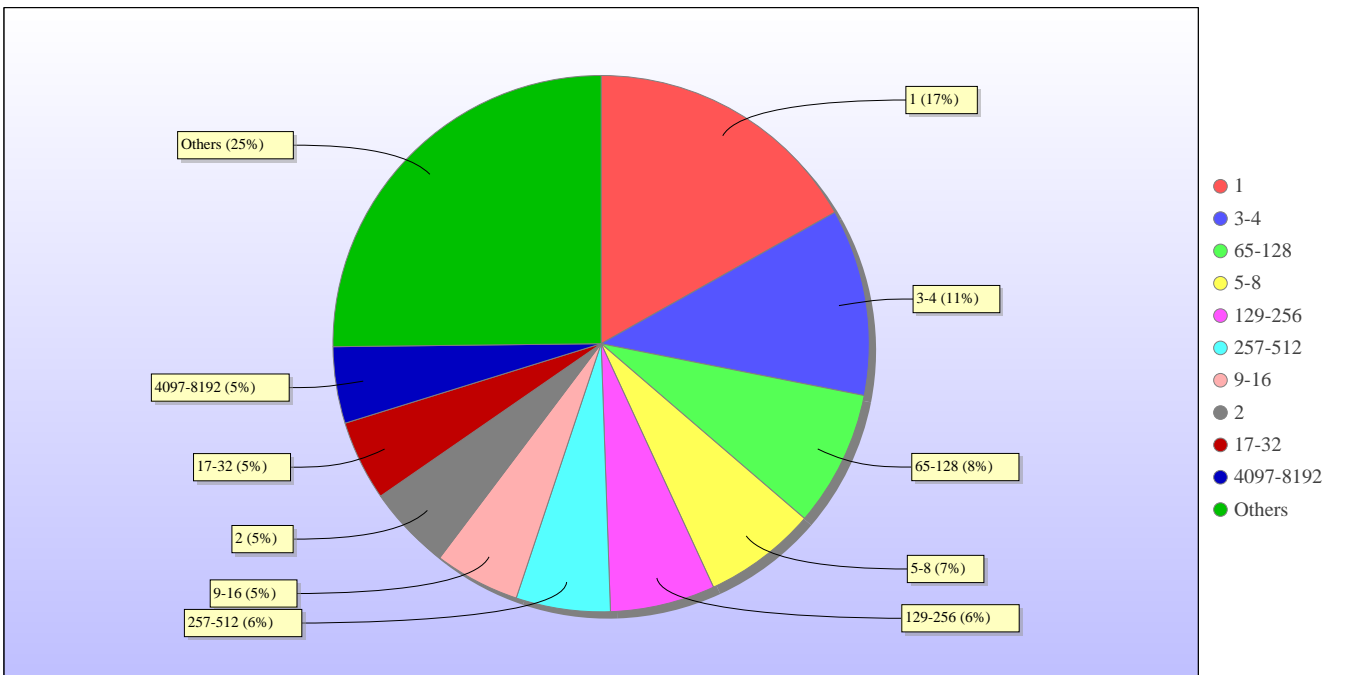


Jobs grouped by wall-clock-hours

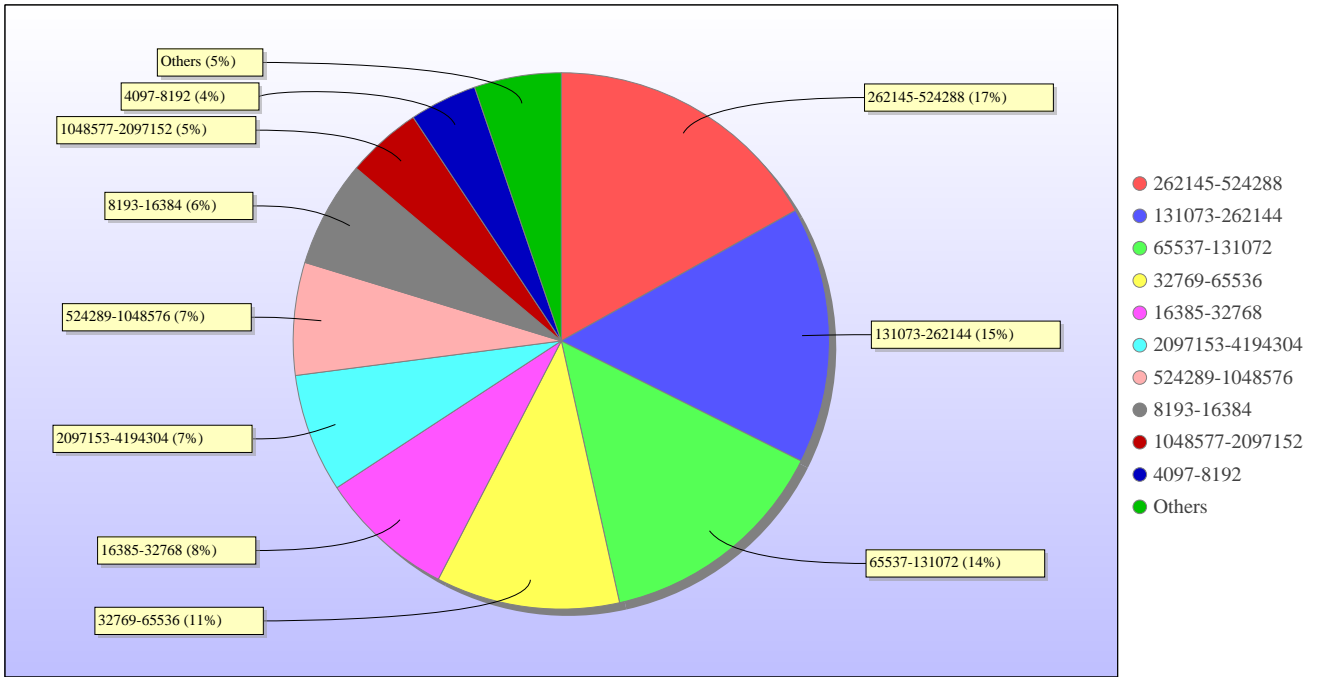




CU used grouped by wall-clock-hours



Jobs grouped by core-hours

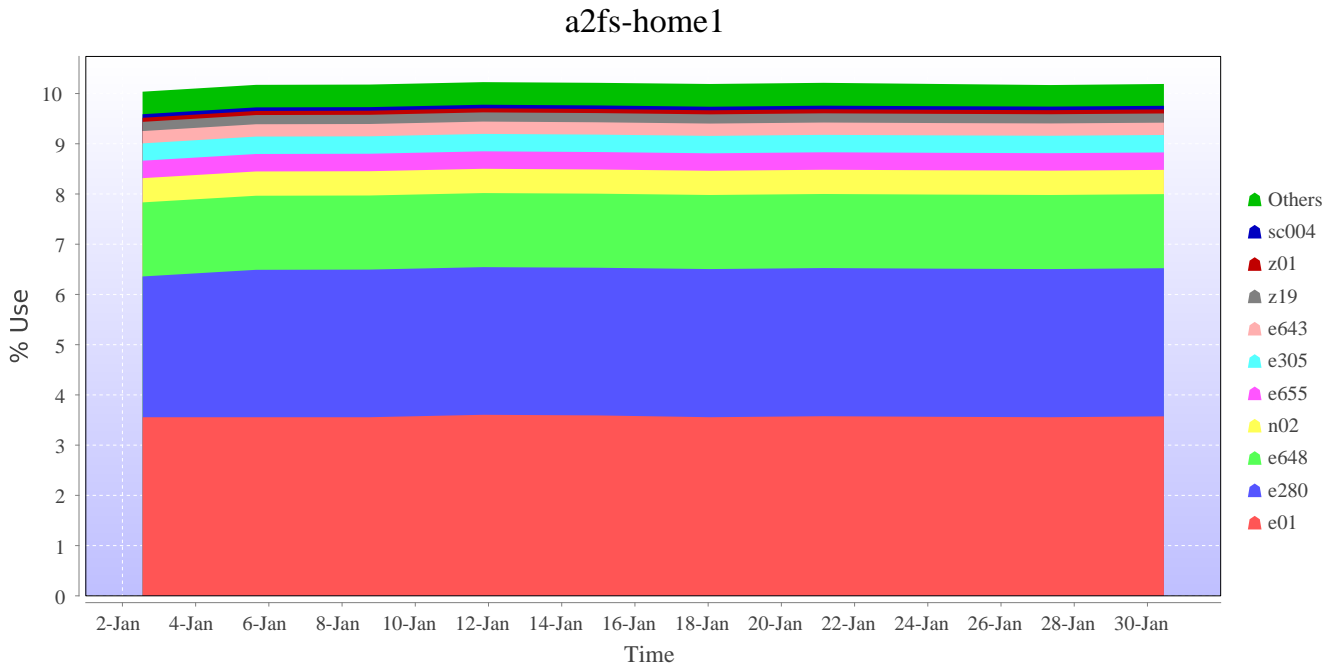


CUs used grouped by core-hours

## Disk usage

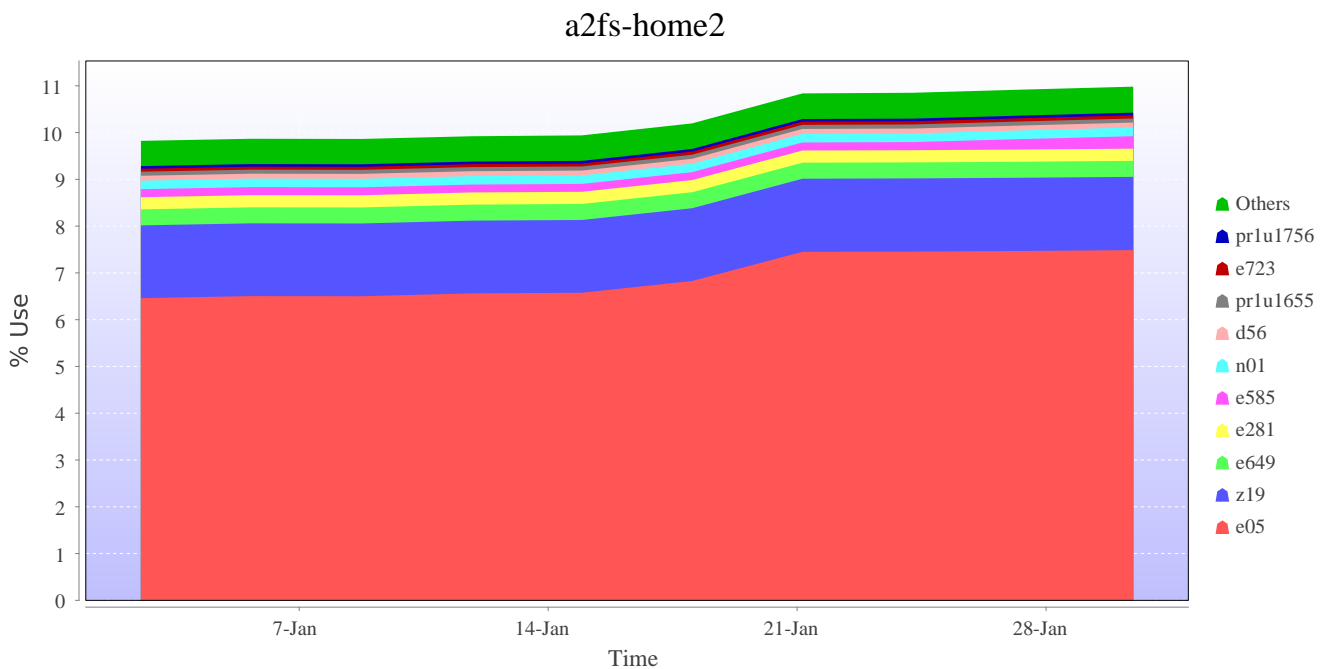
### Disk usage for home ( a2fs-home1 )

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 )

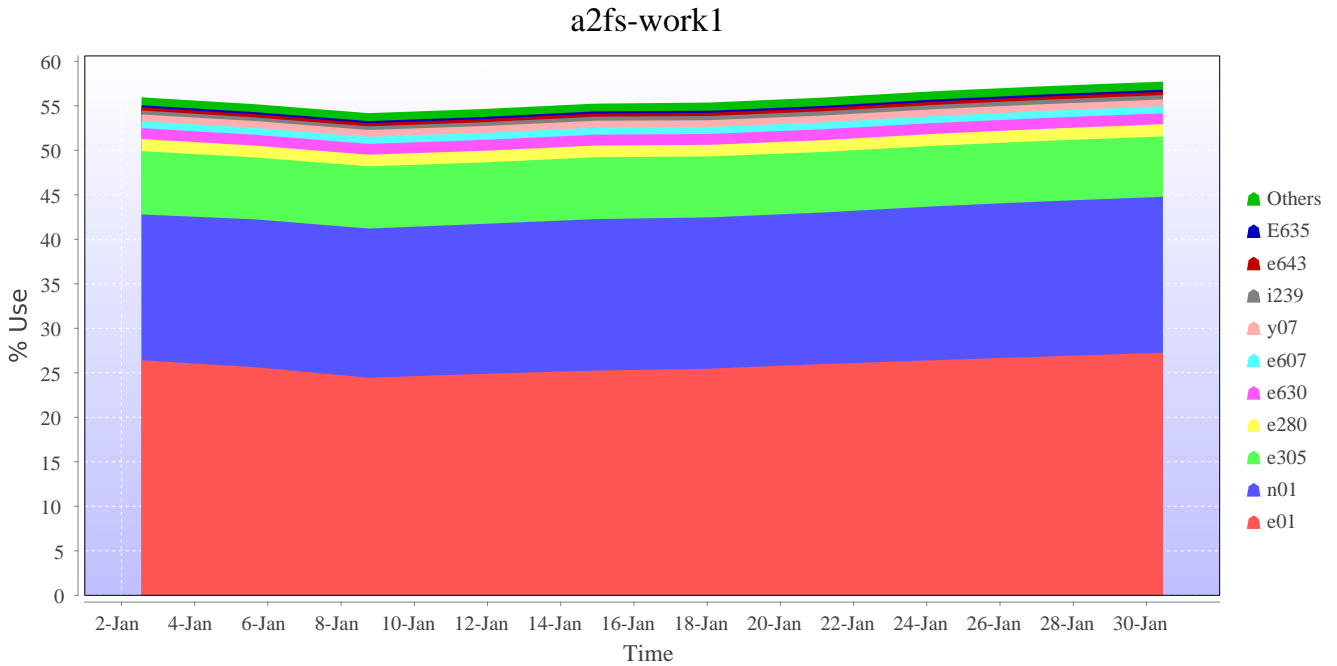
This is a plot of Disk Use on a2fs-home2 against time. The plot is divided into a number of classes according to Project. This is a stacked plot so the top of the plot represents the total usage at a given time.





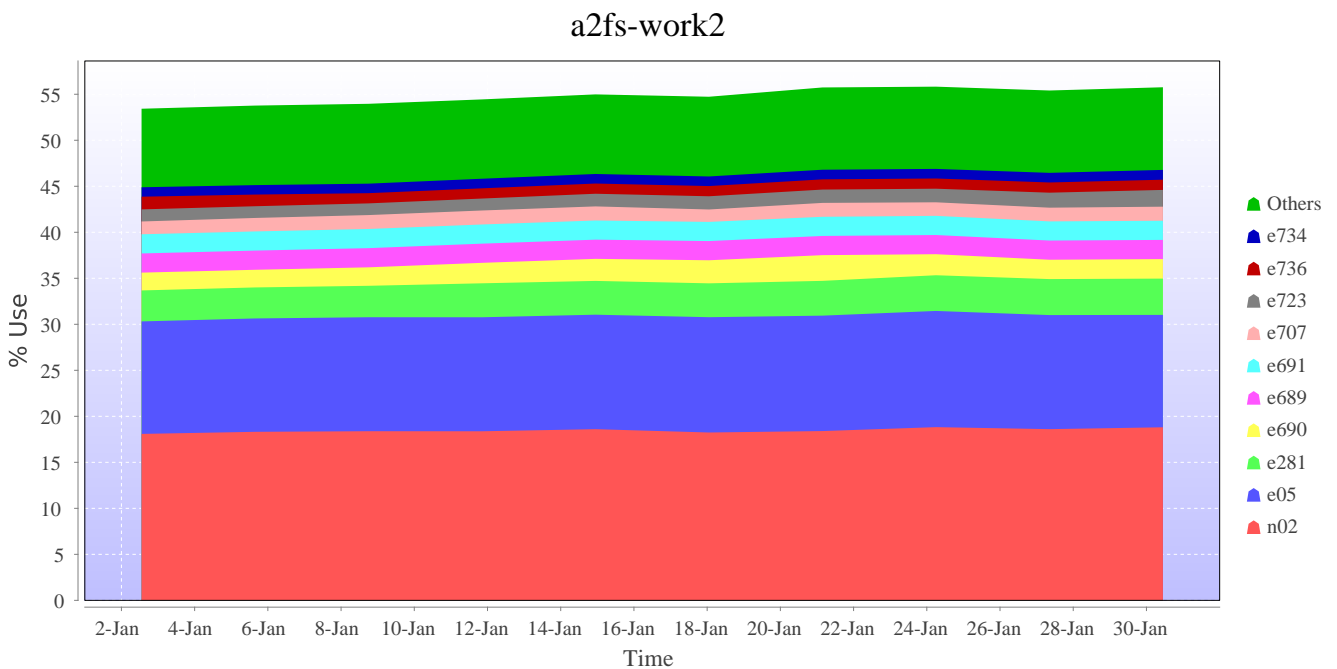
### Disk usage for work ( a2fs-work1 )

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.



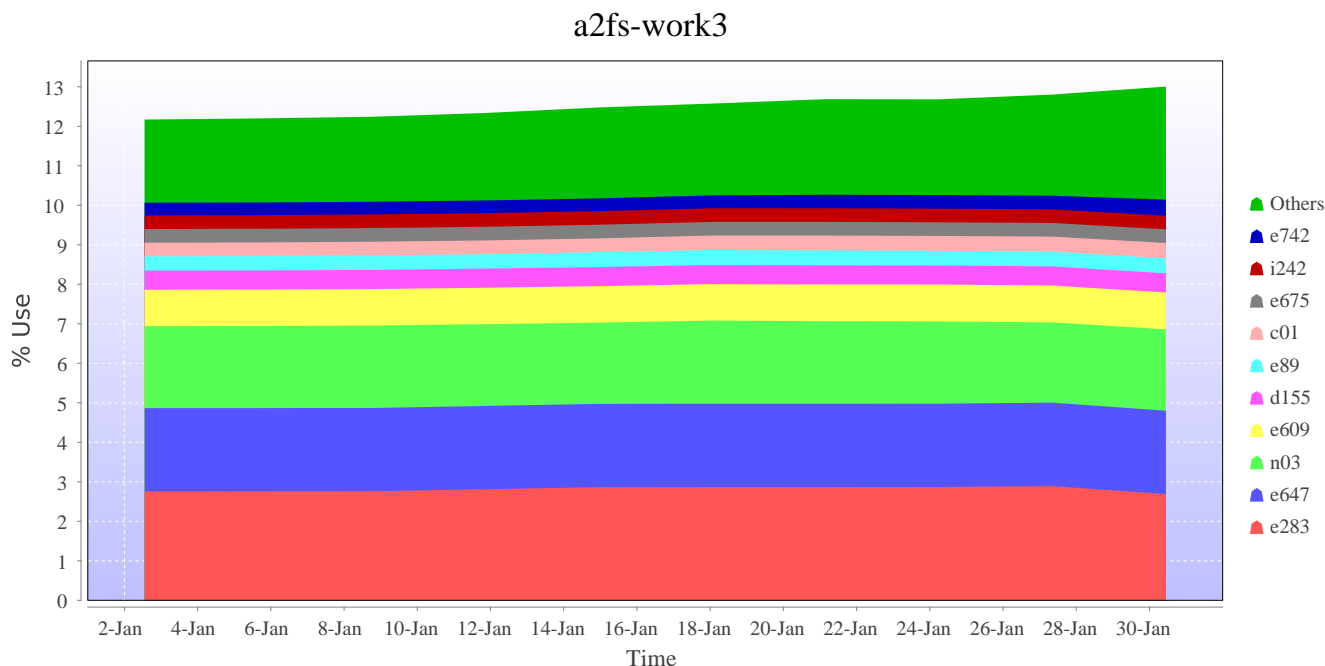
### Disk usage for work ( a2fs-work2 )

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.



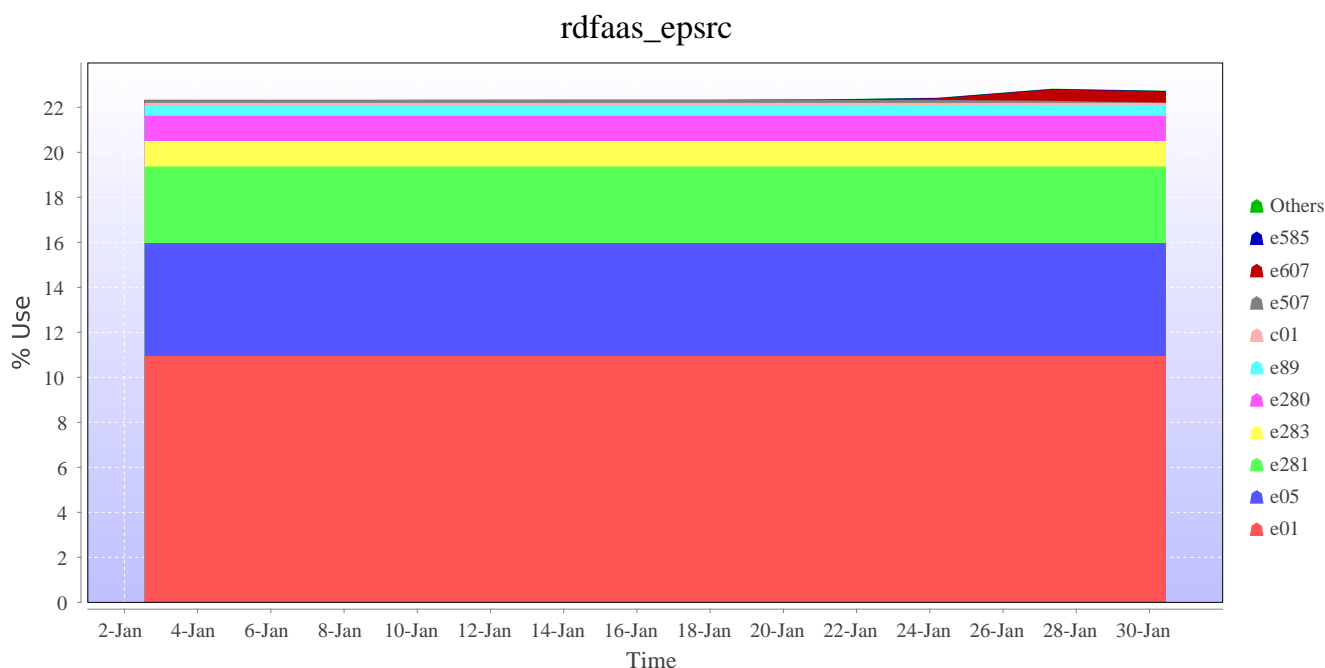
## Disk usage for work ( a2fs-work3 )

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.

