# Monthly Reporting

## Report from 01 December 2022 to 31 December 2022

#### 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.

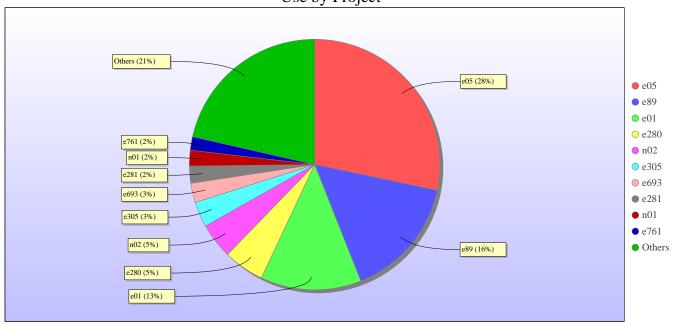
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e572	Leadership	8	33.1	0.00%	33.1	0.00%	2,140.4	0.05%
	Awards						, -	
e684	Leadership	6	120.9	0.00%	120.9	0.00%	1,511.6	0.03%
	Awards							
e683	Pioneer	4,925	13,693.5	0.31%	13,706.9	0.32%	14,014.2	0.32%
	Projects							
e685	Pioneer	2,292	25,731.0	0.59%	27,117.3	0.62%	20,718.1	0.48%
	Projects							
e686	Pioneer	21,883	42,224.7	0.97%	42,595.0	0.98%	18,528.4	0.43%
	Projects							
e687	Pioneer	542	4,710.5	0.11%	4,710.5	0.11%	16,844.0	0.39%
	Projects							
e688	Pioneer	57	9,847.8	0.23%	9,863.0	0.23%	22,318.3	0.51%
	Projects							
e689	Pioneer	61	31,372.0	0.72%	33,680.5	0.77%	27,118.9	0.62%
	Projects							
e690	Pioneer	372	20,946.7	0.48%	24,666.4	0.57%	25,266.0	0.58%
	Projects			0.000/	10000	2.2.121		
e691	Pioneer	30	9,654.9	0.22%	10,366.3	0.24%	25,759.2	0.59%
	Projects			0.000		2.224		
e692	Pioneer	0	0.0	0.00%	0.0	0.00%	19,444.7	0.45%
	Projects			2.2.424		0.050	212212	
e693	Pioneer	169	101,990.6	2.34%	102,145.8	2.35%	24,861.8	0.57%
	Projects			2.224				
c01	Class1a	566	3,735.1	0.09%	3,742.9		27,337.9	0.63%
e348	Class1a	1,229	3,155.1		3,155.1	0.07%	10,830.7	
e575	Class1a	311	1,783.9		1,783.9			
e607	Class1a	388	4,820.0		17,159.7	0.39%	10,017.1	0.23%
e609	Class1a	253	99.2		239.6		3,274.6	
e642	Class1a	135	5,869.2		5,968.2			
e643	Class1a	78	80.3		80.3		3,029.2	
e647	Class1a	46	7.2		7.9		1,980.8	
e655	Class1a	80	292.1	0.01%	18,080.6			
e663	Class1a	0	0.0		0.0		3,063.7	0.07%
e664	Class1a	0	0.0		0.0		897.9	
e667	Class1a	57	649.1		649.1	0.01%		
e694	Class1a	142	145.4		148.2		2,832.7	0.07%
e696	Class1a	537	2,838.8		3,858.2		744.4	
e697	Class1a	40	15,313.0		18,180.1	0.42%	8,772.9	
e700	Class1a	3	144.0		144.0		4,446.8	
e701	Class1a	6	2,892.4		2,892.4		1,901.5	
e702	Class1a	0	0.0	0.00%	0.0	0.00%	1,006.3	0.02%

Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e705	Class1a	523	4,616.9	0.11%	4,616.9	0.11%	3,716.1	0.09%
e706	Class1a	0	0.0	0.00%	0.0	0.00%	848.9	0.02%
e707	Class1a	45	674.5	0.02%	674.5	0.02%	11,945.1	0.27%
e708	Class1a	0	0.0	0.00%	0.0	0.00%	4,684.9	0.11%
e710	Class1a	20	1.4	0.00%	1.4	0.00%	4,109.6	0.09%
e712	Class1a	0	0.0	0.00%	0.0	0.00%	13,478.3	0.31%
e720	Class1a	368	26,549.6	0.61%	27,805.7	0.64%	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	33	31.3	0.00%	31.3	0.00%	2,431.8	0.06%
e751	Class1a	143	8,119.1	0.19%	8,161.6	0.19%	5,049.8	0.12%
e752	Class1a	0	0.0	0.00%	0.0	0.00%	3,576.9	0.08%
e758	Class1a	0	0.0	0.00%	0.0	0.00%	3,597.3	0.08%
e761	Class1a	62	4,866.1	0.11%	70,972.0	1.63%	1,681.7	0.04%
e763	Class1a	0	0.0	0.00%	0.0	0.00%	336.8	0.01%
e764	Class1a	124	729.4	0.02%	729.4	0.02%	20,073.4	0.46%
e769	Class1a	0	0.0	0.00%	0.0	0.00%	25,555.3	0.59%
e6337	Class1a	72	4,704.4	0.11%	4,704.4	0.11%	1,958.0	0.05%
e01	Consortia	2,366	380,658.6	8.75%	529,400.3	12.17%	225,740.1	5.19%
e05	Consortia	27,104	1,046,876.3	24.06%	1,153,108.4	26.50%	714,843.9	16.43%
e89	Consortia	35,558	613,036.8	14.09%	638,748.8	14.68%	338,610.1	7.78%
e280	Consortia	5,675	142,827.8	3.28%	214,355.2	4.93%	150,493.7	3.46%
e281	Consortia	969	75,471.3	1.73%	89,458.4	2.06%	75,247.3	1.73%
e283	Consortia	2,368	38,507.0	0.89%	45,796.7	1.05%	37,623.6	
e305	Consortia	2,383	126,381.2	2.90%	133,073.7	3.06%	112,870.0	2.59%
e585	Consortia	868	41,222.6	0.95%	41,222.6	0.95%	112,870.0	2.59%
e772	Consortia	0	0.0	0.00%	0.0	0.00%	32,203.7	0.74%
e773	Consortia	0	0.0	0.00%	0.0	0.00%	6,357.9	0.15%
e739	Pump Priming	0	0.0	0.00%	0.0	0.00%	678.4	0.02%
e754	Pump Priming	53	1,214.5	0.03%	1,214.5	0.03%	684.9	0.02%
e757	Pump Priming	0	0.0	0.00%	0.0	0.00%	616.8	0.01%
e759		0	0.0	0.00%	0.0	0.00%	667.7	0.02%
e762	Pump Priming	33	3,017.4	0.07%	3,017.4	0.07%	743.2	0.02%
e766	Pump Priming	0	0.0	0.00%	0.0	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%	118.7	0.00%
ta092	Training	25	2.6	0.00%	2.6	0.00%	340.9	0.01%
e507	Access to HPC	0	0.0	0.00%	0.0	0.00%	2,985.7	0.07%
e632	Access to HPC	0	0.0	0.00%	0.0	0.00%	3,669.0	0.08%
e673	Access to HPC	3	1,525.8	0.04%	1,525.8	0.04%	2,473.2	0.06%
	Access to HPC	0	0.0		0.0	0.00%	11,040.4	0.25%
e727	Access to HPC	547	12,408.3	0.29%	12,500.7	0.29%	3,312.3	0.08%
e730	Access to HPC	0	0.0	0.00%	0.0	0.00%	3,234.1	0.07%
	Access to HPC	985	39,033.3	0.90%	39,859.7	0.92%	9,171.2	0.21%
	Access to HPC	336	24,858.4		24,999.0		5,053.2	0.12%
	Access to HPC	1,140	29,889.9		29,909.0		4,204.3	0.10%
	Access to HPC	295	36,545.7	0.84%	37,680.0		7,691.8	0.18%
	Access to HPC	96	40,168.0		40,173.3			0.16%
	Access to HPC	57	30,572.6		30,918.9		12,127.7	0.28%
	Access to HPC	0	0.0		0.0		1,308.2	0.03%
	Access to HPC	124	6,123.4	0.14%	6,123.4	0.14%	7,470.2	0.17%
	Access to HPC	49	3,217.4		3,313.9		5,095.8	0.12%
	Access to HPC	17	0.0	0.00%	9,122.7	0.21%	1,931.5	0.04%
	Access to HPC	0	0.0	0.00%	0.0		15,595.7	0.36%
	Access to HPC	73	17,938.0		17,938.0		21,523.7	0.49%
	Access to HPC	70	11,751.2		11,751.2		24,958.7	0.57%
	Access to HPC	0	0.0		0.0		659.4	0.02%
	Access to HPC	9	81.9		81.9		5,358.7	0.12%
	Access to HPC	0	0.0	0.00%	0.0	0.00%	8,123.5	0.19%
	Access to HPC	3	0.2		0.2	0.00%	3,005.7	0.07%
	Access to HPC	0	0.0		0.0		3,655.6	0.08%
	Access to HPC	0	0.0		0.0		4,321.7	0.10%
e779	Access to HPC	0	0.0	0.00%	0.0	0.00%	406.2	0.01%

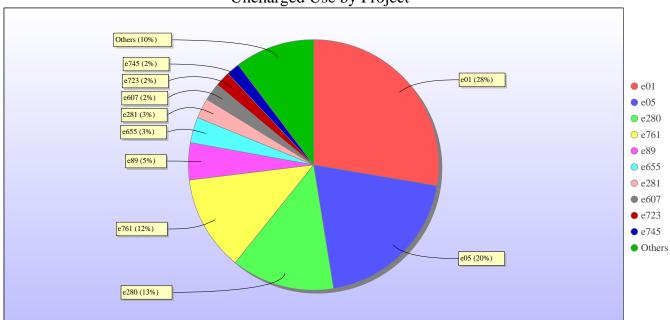
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e780	Access to HPC	0	0.0	0.00%	0.0	0.00%	3,249.4	0.07%
e781	Access to HPC	0	0.0	0.00%	0.0	0.00%	812.4	0.02%
e782	Access to HPC	21	43.2	0.00%	43.2	0.00%	280.5	0.01%
	Access to HPC	0	0.0	0.00%	0.0	0.00%	740.9	
EPSRC Total		116,833	3,075,816.5	70.69%	3,578,132.6	82.24%	2,444,897.6	56.19%
n01	Consortia	2,480	74,408.0	1.71%	82,504.1	1.90%	149,989.0	3.45%
n02		21,620	181,238.0	4.17%	186,899.5	4.30%	534,813.7	12.29%
n03	Consortia	2,278	64,645.5	1.49%	64,826.4	1.49%	166,126.0	3.82%
n09	Pump Priming	0	0.0	0.00%	0.0	0.00%	373.7	0.01%
NERC Total		26,378	320,291.4	7.36%	334,230.0	7.68%	851,302.5	19.57%
b19	Class1a	414	6,778.9	0.16%	6,778.9	0.16%	1,982.7	0.05%
BBSRC Total		414	6,778.9	0.16%	6,778.9	0.16%	1,982.7	0.05%
e756	Leadership Awards	23	1.6	0.00%	1.6	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	742	48,393.3	1.11%	58,846.2	1.35%	42,592.2	0.98%
e738		0	0.0	0.00%	0.0	0.00%	8,422.0	0.19%
UKRI Total		765	48,394.9	1.11%	58,847.8	1.35%	57,363.9	
pr1u1555	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	427.9	
pr1u1751	DECI: EXEC	1,189	4,318.0	0.10%	4,318.0	0.10%	1,347.3	
pr1u1756		249	6,585.9	0.15%	6,647.7	0.15%	6,432.2	0.15%
PRACE Total		1,438	10,903.9	0.25%	10,965.7	0.25%	8,207.4	0.19%
ecseaa13	eCSE	845	219.4	0.01%	219.4	0.01%	91.2	0.00%
ecseaa26		78	54.7	0.00%	441.3	0.01%	310.8	0.01%
ecseaa28		0	0.0	0.00%	0.0	0.00%	40.8	
ecseac14		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%	98.2	0.00%
ecsead02	eCSE	0	0.0	0.00%	0.0	0.00%	163.0	0.00%
ecsead03		0	0.0	0.00%	0.0	0.00%	128.5	0.00%
ecsead06		11	132.9	0.00%	132.9	0.00%	352.1	0.01%
ecsead08		110	659.9	0.02%	1,244.2	0.03%	78.0	0.00%
ecseae03	eCSE	0	0.0	0.00%	0.0	0.00%	93.6	0.00%
ecseae04	eCSE	0	0.0	0.00%	0.0	0.00%	119.5	0.00%
ecseae08		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	40	3.2		3.2	0.00%	104.4	0.00%
ecseaf02	eCSE	0	0.0		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%
100	00=	-		2 2 2 2 4		2 2 2 2 4		2 222/
ecseat06		0	0.0		0.0	0.00%	100.8 68.9	
ecseag01 ecseag02		0	0.0		0.0	0.00%	87.1	0.00%
ecseag02 ecseag03		0	0.0		0.0	0.00%	62.9	
ecseag03		27	0.0		0.5	0.00%	43.1	0.00%
ecseag06 ecseag08		0	0.0	0.00%	0.0	0.00%	58.4	0.00%
ecseagu8 ecseag09		0	0.0		0.0	0.00%	62.7	0.00%
ecseagu9 ecseah06		0	0.0		0.0	0.00%	42.4	0.00%
eCSE Total	ECSE		1,070.2	0.00%	2,041.5	0.00%	2,710.3	0.06%
d35	Possarah	1,111 153	242.4	0.02%	242.4	0.05%	185.6	
d011			0.0	0.01%	0.0	0.01%	175.6	
d011		0	0.0	0.00%	0.0	0.00%	5,226.3	0.00%
d114 d137		309	16,692.3	0.00%	16,692.3	0.00%	1,681.6	
d142		133	16,135.2	0.37%	16,135.2	0.37%	5,098.7	0.12%
d170		0	0.0	0.00%	0.0	0.00%	50.5	
d175		0	0.0	0.00%	0.0	0.00%	1,414.1	0.03%
d177		0	0.0		0.0	0.00%	84.9	
d193		0	0.0	0.00%	0.0	0.00%	339.7	0.01%
d435		12	0.0	0.00%	1.9	0.00%	84.9	
d436		0	0.0	0.00%	0.0	0.00%	339.7	0.01%
dc129		904	586.2		586.2		1,698.6	
d105	Industrial	0	0.0	0.00%	0.0	0.00%	3,368.8	0.08%

Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
d181	Industrial	264	0.0	0.00%	7,557.8	0.17%	1,207.8	0.03%
d190	Industrial	0	0.0		0.0	0.00%	1,698.6	0.04%
d433	Industrial	0	0.0		0.0	0.00%	78.3	0.00%
d434	Industrial	0	0.0		0.0	0.00%	15.7	0.00%
dc150	Industrial	0	0.0		0.0	0.00%	568.7	0.01%
i01	Industrial	0	0.0		0.0	0.00%	5.3	0.00%
i18	Industrial	0	0.0		0.0	0.00%	2,351.2	0.05%
i21	Industrial	0	0.0		0.0	0.00%	16,844.0	0.39%
i24	Industrial	0	0.0		0.0	0.00%	33.7	0.00%
i25	Industrial	0	0.0		0.0	0.00%	101.3	0.00%
i26	Industrial	30	127.2		127.2	0.00%	211.7	0.00%
i238	Industrial	0	0.0	0.00%	0.0	0.00%	505.3	0.01%
i239	Industrial	601	2,264.1	0.05%	2,270.4	0.05%	791.8	0.02%
i241	Industrial	0	0.0	0.00%	0.0	0.00%	3,273.2	0.08%
i242	Industrial	66	1,524.5		1,524.5	0.04%	682.8	0.02%
i243	Industrial	0	0.0		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	36	3.2		3.2	0.00%	31.6	0.00%
d180	Training	0	0.0		0.0	0.00%	452.3	0.01%
m22oc	Training	0	0.0		0.0	0.00%	392.4	0.01%
m22ol	Training	137	164.4	0.00%	164.4	0.00%	392.4	0.01%
m22ext	Training	0	0.0		0.0	0.00%	157.0	0.00%
mdisspt	Training	0	0.0		0.0	0.00%	148.7	0.00%
m22exts1	Training	0	0.0		0.0	0.00%	78.5	0.00%
ta037	Training	0	0.0		0.0	0.00%	63.6	0.00%
ta038	Training	0	0.0		0.0	0.00%	63.6	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		0.0	0.00%	33.6	0.00%
ta067	Training	0	0.0		0.0	0.00%	19.1	0.00%
ta068	Training	0	0.0		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	5	2.7	0.00%	2.7	0.00%	609.8	0.01%
ta081	Training	72	3.5	0.00%	3.5	0.00%	20.5	0.00%
ta082	Training	0	0.0		0.0	0.00%	16.1	0.00%
ta084	Training	22	266.8		266.8	0.01%	763.8	0.02%
ta085	Training	0	0.0	0.00%	0.0	0.00%	38.3	0.00%
ta086	Training	0	0.0		0.0	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		0.0	0.00%	37.3	0.00%
ta089	Training	23	0.1	0.00%	0.1	0.00%		0.00%
ta090	Training	0	0.0	0.00%	0.0	0.00%		0.00%
ta091	Training	90	76.1	0.00%	51.1	0.00%	47.7	0.00%
ta093	Training	124	1,134.4	0.03%	3,132.7	0.07%	434.8	0.01%
d191	Service	0	0.0	0.00%	0.0	0.00%	4.2	0.00%
y01	Service	0	0.0		0.0	0.00%	74.8	0.00%
y02	Service	41	0.6		0.6	0.00%		0.01%
y07	Service	0	0.0		0.0	0.00%	849.3	0.02%
y23	Service	11	19.5		19.5	0.00%	55.6	0.00%
z01	Service	0	0.0	0.00%	0.0	0.00%	849.3	0.02%
z02	Service	13	0.4		0.4	0.00%		0.01%
z19	Service	937	33,630.0		33,631.5	0.77%	42,582.4	0.98%
z99	Service	0	0.0		0.0	0.00%	0.6	0.00%
DirectorsTime		3,983	72,873.6		82,414.5	1.89%		2.30%
Total		,	,		·		,	
Total		150,922	3,536,129.3	81.27%	4,073,411.1	93.62%	3,466,563.4	79.67%

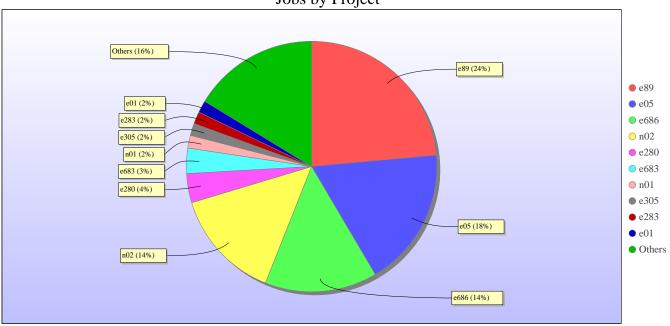
Use by Project







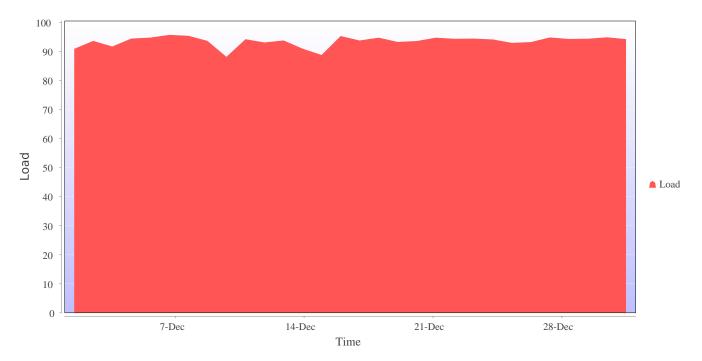
Jobs by Project



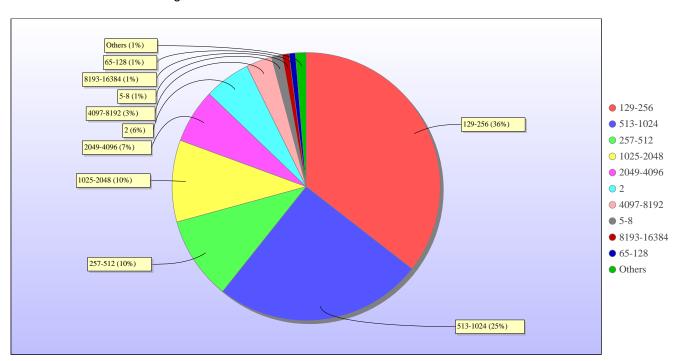
# CUs (by Size)

Size	CUs	Number of Jobs
1	0	282
2	0	8,405
3-4	0	33
5-8	0	1,945
9-16	0	58
17-32	0	96
33-64	0	118
65-128	0	1,148
129-256	146,916.945	53,594
257-512	144,358.379	
513-1024	333,339.287	
1025-2048	495,346.867	
2049-4096	625,328.997	
4097-8192	485,422.059	
8193-16384	434,343.965	1,245
16385-32768	504,470.599	
32769-65536	184,981.789	156
65537-131072	120,626.317	71
131073-262144	60,919.146	44
262145-524288	0	1

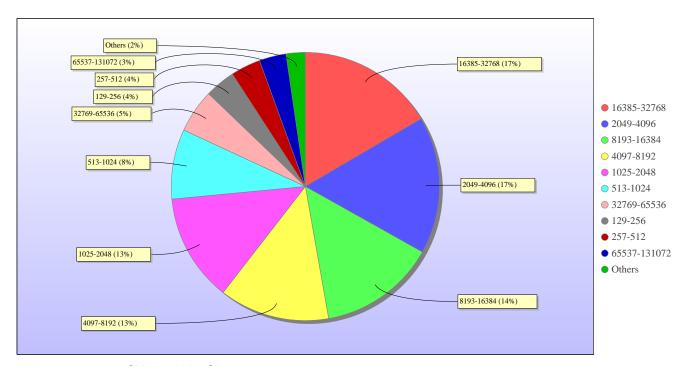
## **Load plots**



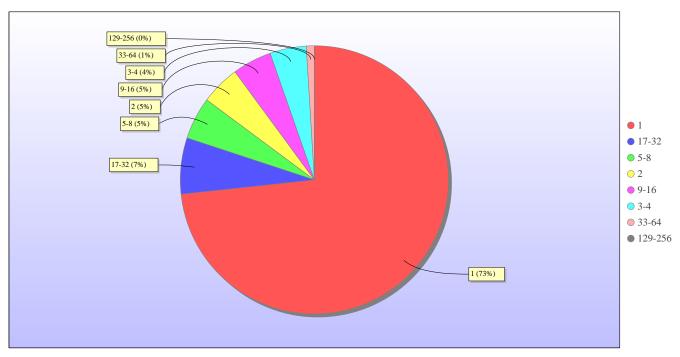
Percentage load on machine



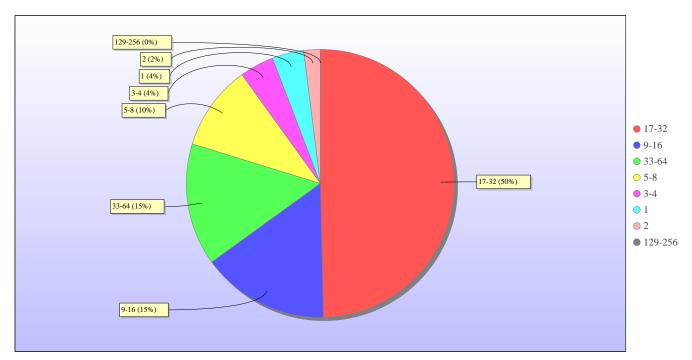
Jobs by Size



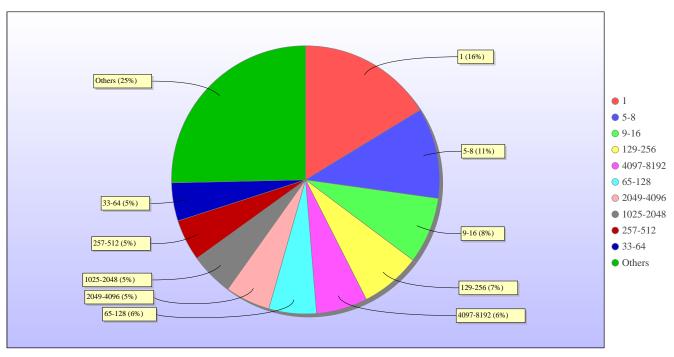
CUs used by Size



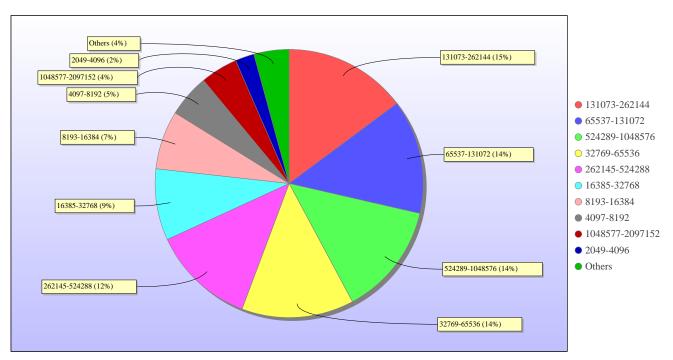
Jobs grouped by wall-clock-hours



CUs used grouped by wall-clock-hours



Jobs grouped by core-hours

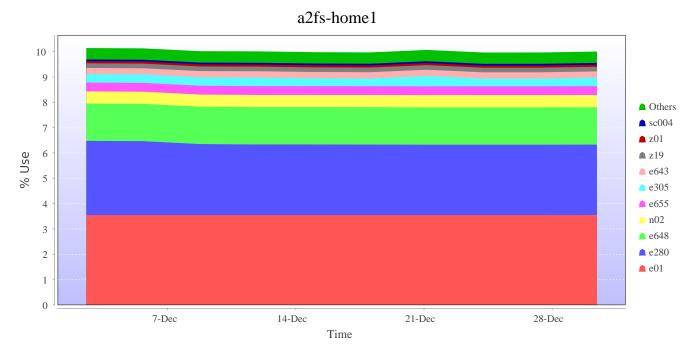


CUs used grouped by core-hours

### Disk usage

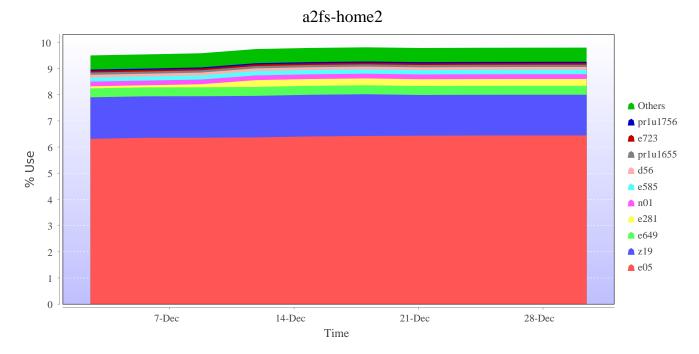
### Disk usage for home (a2fs-home1)

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.



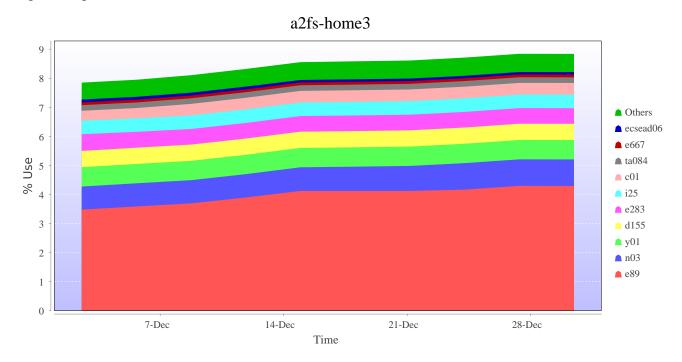
### Disk usage for home (a2fs-home2)

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.



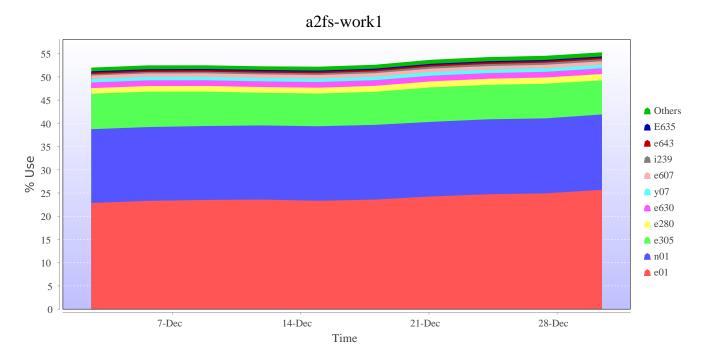
### Disk usage for home (a2fs-home3)

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.



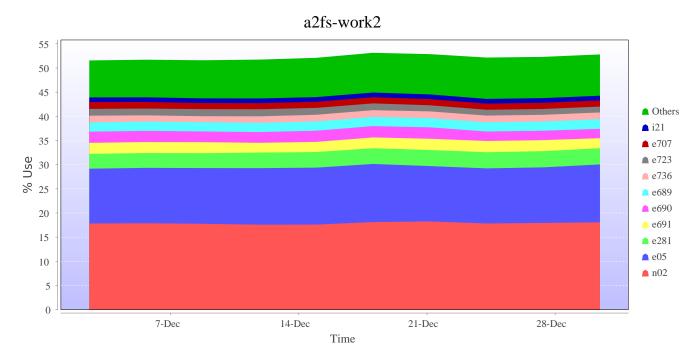
### Disk usage for work (a2fs-work1)

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.



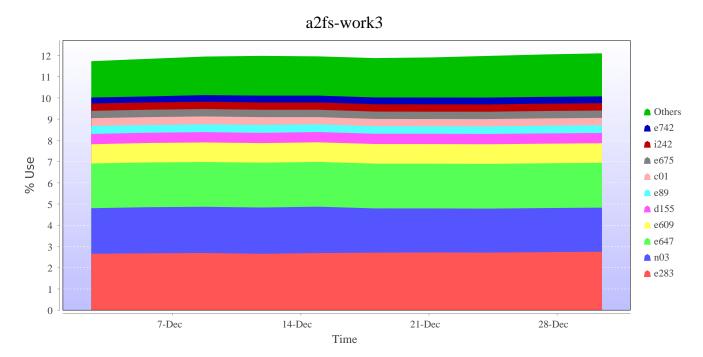
### Disk usage for work (a2fs-work2)

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.



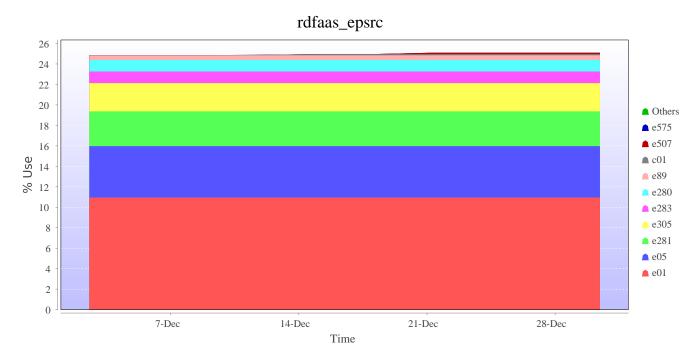
### Disk usage for work (a2fs-work3)

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.

