

# Monthly Reporting

## Report from 01 July 2020 to 31 July 2020

### Report for Resource Pool XC on All machines

A total of 0 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.

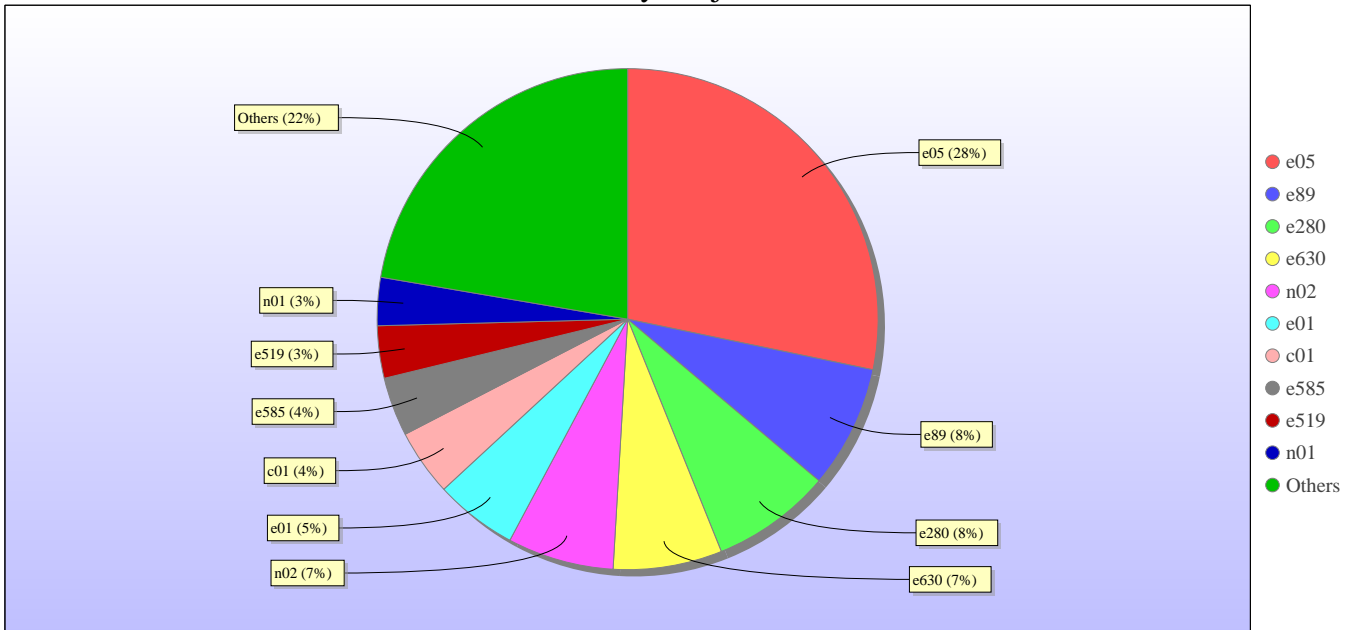
The (Allocation) column is the time allocated to the project, scaled according to the reporting period and shown as a fraction of the available resources. If this report period is a sub-period of the Allocation period then the SAFE calculates the Allocation for this sub-period based on a linear spend 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
E635	Class1a	8	47.5		47.5		3,387.2	
c01	Class1a	580	53,887.5		53,895.8		13,334.2	
e432	Class1a	205	13,982.8		13,982.8		7,957.9	
e448	Class1a	225	28,031.7		28,031.7		35,160.2	
e517	Class1a	0	0.0		0.0		80.6	
e519	Class1a	375	35,277.5		42,486.9		4,705.4	
e530	Class1a	7	673.4		673.4		1,129.9	
e537	Class1a	0	0.0		0.0		1,878.2	
e572	Class1a	1,329	2,167.3		2,284.1		3,586.6	
e575	Class1a	206	1,050.7		1,054.4		2,864.8	
e584	Class1a	10	436.6		436.6		1,370.4	
e588	Class1a	7	182.8		182.8		3,048.5	
e606	Class1a	195	3,956.7		3,956.7		8,413.7	
e607	Class1a	423	16,069.8		16,138.9		16,092.9	
e608	Class1a	74	494.8		916.5		3,387.2	
e609	Class1a	231	431.3		431.3		12,027.3	
e610	Class1a	320	20,137.5		20,138.3		6,550.6	
e613	Class1a	19	551.7		551.7		677.4	
e627	Class1a	180	2,502.9		2,503.1		7,493.7	
e630	Class1a	24	44,038.7		88,445.1		16,844.0	
e637	Class1a	0	0.0		0.0		2,540.4	
e642	Class1a	0	0.0		0.0		7,338.3	
e643	Class1a	56	84.7		84.7		7,514.3	
e645	Class1a	22	856.7		856.7		4,078.6	
e647	Class1a	381	8,239.9		8,243.8		5,367.5	
e648	Class1a	0	0.0		0.0		4,876.2	
e649	Class1a	20	2,655.0		2,655.0		4,235.0	
e651	Class1a	35	243.8		243.8		2,037.5	
e655	Class1a	49	823.4		823.4		541.3	
e663	Class1a	167	1,593.3		1,593.3		1,693.6	
e667	Class1a	2	0.0		0.0		515.4	
e01	Consortia	1,707	60,765.7		67,050.1		84,745.6	
e05	Consortia	11,693	317,548.5		355,393.7		233,986.2	
e89	Consortia	3,030	98,438.8		99,715.2		119,315.0	
e280	Consortia	1,092	92,592.0		97,405.7		50,527.2	
e281	Consortia	401	13,129.2		13,132.5		18,059.4	
e283	Consortia	1,116	8,741.1		8,899.6		18,917.4	
e305	Consortia	634	24,374.6		24,378.1		58,664.0	
e585	Consortia	401	36,616.4		47,845.9		29,644.8	
e658	Consortia	722	34,172.6		34,172.7		28,710.0	
e348	Direct Access: ARCHER RAP	2	195.2		195.2		6,846.9	

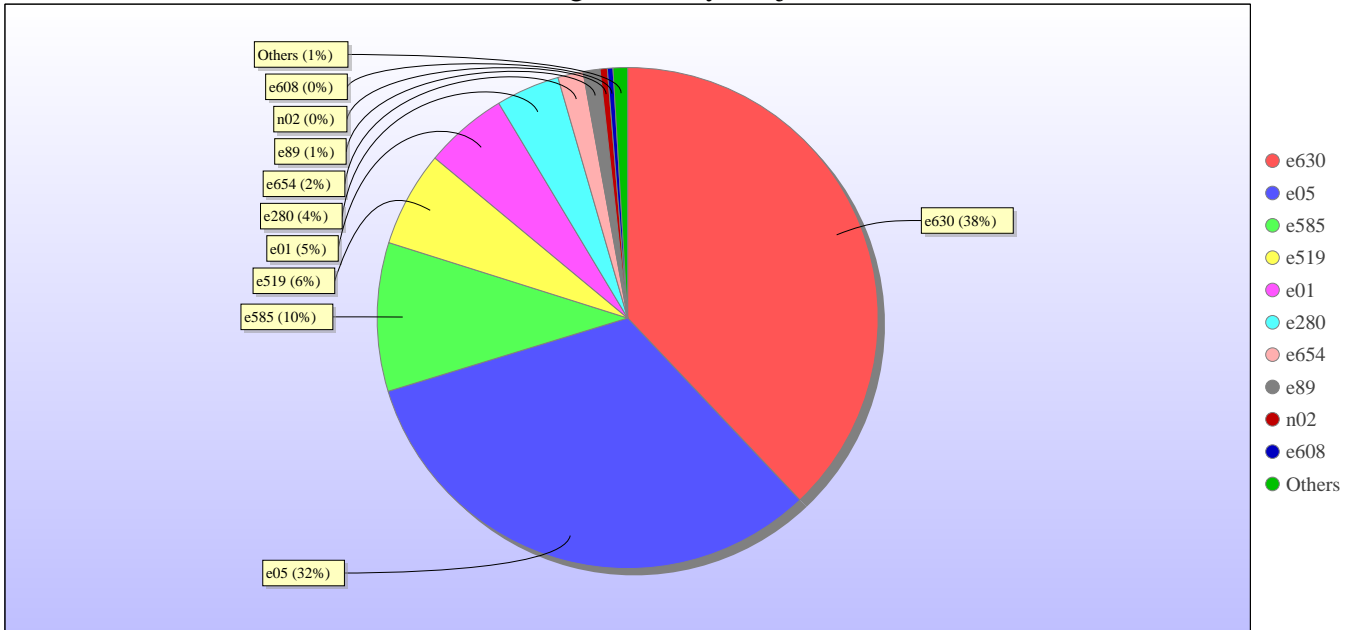
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e664	Direct Access: ARCHER RAP	0	0.0		0.0		1,273.6	
e632	Instant Access	4,034	4,731.7		4,787.7		934.9	
e650	Instant Access	1	21.4		42.9		135.8	
e653	Instant Access	0	0.0		0.0		136.3	
e656	Instant Access	0	0.0		0.0		204.4	
e657	Instant Access	0	0.0		0.0		200.9	
e659	Instant Access	0	0.0		0.0		202.5	
e660	Instant Access	0	0.0		0.0		202.1	
e661	Instant Access	0	0.0		0.0		202.1	
e662	Instant Access	0	0.0		0.0		203.2	
e665	Instant Access	0	0.0		0.0		203.2	
e631	Training	0	0.0		0.0		2,030.6	
e644	Training	260	28.3		54.0		2,286.7	
e654	Training	277	648.9		2,562.8		2,776.1	
ta002	Training	379	467.8		312.3		425.9	
tc011	Training	9	0.1		0.1		129.2	
e666	COVID-19 HPC Consortium	0	0.0		0.0		17,858.7	
<b>EPSRC Total</b>		<b>30,908</b>	<b>930,890.1</b>		<b>1,046,606.8</b>		<b>869,551.3</b>	
n01	Consortia	2,947	41,994.2		39,029.1		130,809.2	
n02	Consortia	9,016	88,737.6		86,369.0		188,776.1	
n03	Consortia	1,663	27,016.7		27,037.5		85,134.3	
<b>NERC Total</b>		<b>13,626</b>	<b>157,748.4</b>		<b>152,435.6</b>		<b>404,719.7</b>	
e621	Leadership Awards	39	2,144.1		2,144.1		6,560.1	
e568	Research	0	0.0		0.0		3,870.7	
<b>BBSRC Total</b>		<b>39</b>	<b>2,144.1</b>		<b>2,144.1</b>		<b>10,430.8</b>	
pr1u0001	DECI: EXEC	0	0.0		0.0		2.8	
pr1u1551	DECI: EXEC	44	31,823.2		31,823.2		7,571.6	
pr1u1552	DECI: EXEC	36	787.6		787.6		2,979.8	
pr1u1553	DECI: EXEC	69	4,841.2		4,841.2		10,012.4	
pr1u1554	DECI: EXEC	102	190.8		265.9		591.0	
pr1u1651	DECI: EXEC	0	0.0		0.0		150.9	
pr1u1652	DECI: EXEC	0	0.0		0.0		1,293.6	
pr1u1653	DECI: EXEC	0	0.0		0.0		1,642.7	
pr1u1654	DECI: EXEC	0	0.0		0.0		275.5	
pr1u1655	DECI: EXEC	0	0.0		0.0		694.5	
pr1u1656	DECI: EXEC	73	42.5		42.5		830.9	
pr1u1657	DECI: EXEC	0	0.0		0.0		255.5	
pr1u1658	DECI: EXEC	0	0.0		0.0		860.7	
pr1u1501	DECI: HOME	0	0.0		0.0		0.1	
pr1u1502	DECI: HOME	0	0.0		0.0		0.1	
pr1u1503	DECI: HOME	8	105.9		124.2		548.2	
pr1u1504	DECI: HOME	0	0.0		0.0		0.1	
pr1u1505	DECI: HOME	2	0.0		149.2		0.1	
pr1u1506	DECI: HOME	0	0.0		0.0		1,624.7	
pr1u1507	DECI: HOME	0	0.0		0.0		0.1	
pr1u1601	DECI: HOME	0	0.0		0.0		0.1	
pr1u1602	DECI: HOME	0	0.0		0.0		0.1	
pr1u1603	DECI: HOME	0	0.0		0.0		0.1	
pr1u1604	DECI: HOME	0	0.0		0.0		0.1	
pr1u1605	DECI: HOME	0	0.0		0.0		0.1	
pr1u1606	DECI: HOME	0	0.0		0.0		0.1	
pr1u1607	DECI: HOME	0	0.0		0.0		0.1	
pr1u1608	DECI: HOME	0	0.0		0.0		0.1	
pr1u1609	DECI: HOME	0	0.0		0.0		0.1	
pr1u1610	DECI: HOME	0	0.0		0.0		0.1	
pr1u1611	DECI: HOME	0	0.0		0.0		166.9	
pr1uco79	DECI: HOME	0	0.0		0.0		6,320.3	
<b>PRACE Total</b>		<b>334</b>	<b>37,791.2</b>		<b>38,033.8</b>		<b>35,823.1</b>	
d35	Research	21	19.9		19.9		168.4	
d56	Research	271	2,498.4		2,568.7		6,789.4	

Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
d88	Research	0	0.0		0.0		0.6	
d114	Research	679	11,003.3		11,015.3		14,336.4	
d118	Research	188	472.6		472.6		452.6	
d137	Research	5	12.9		12.9		2,935.6	
d142	Research	325	1,058.7		1,058.7		735.5	
d143	Research	24	812.7		812.7		1,270.5	
d155	Research	20	329.7		329.7		2,828.9	
d170	Research	484	0.0		0.0		0.8	
d428	Research	6	184.5		184.5		547.1	
d429	Research	0	0.0		0.0		380.0	
d430	Research	0	0.0		0.0		8,312.5	
W22	Industrial	0	0.0		0.0		508.1	
d153	Industrial	23	1.1		1.1		226.3	
i01	Industrial	7	1,176.1		1,176.1		622.4	
i21	Industrial	5	362.9		241.9		16,939.9	
i236	Industrial	6	0.2		0.2		131.9	
w21	Industrial	0	0.0		0.0		508.1	
w23	Industrial	0	0.0		0.0		508.1	
w24	Industrial	0	0.0		0.0		508.1	
d171	Training	609	159.4		159.4		1,131.6	
DirectorsTime Total		2,673	18,092.3		18,053.6		59,842.7	
y14	Training	47	0.0		0.0		169.4	
z01	Service	26	0.0		0.0		12.7	
z02	Service	0	0.0		0.0		4.2	
z19	Service	464	1,256.0		1,256.4		2,425.8	
CSE Total		537	1,256.0		1,256.4		2,612.1	
Total		48,117	1,147,922.2	0	1,258,530.4	0	1,382,979.7	0

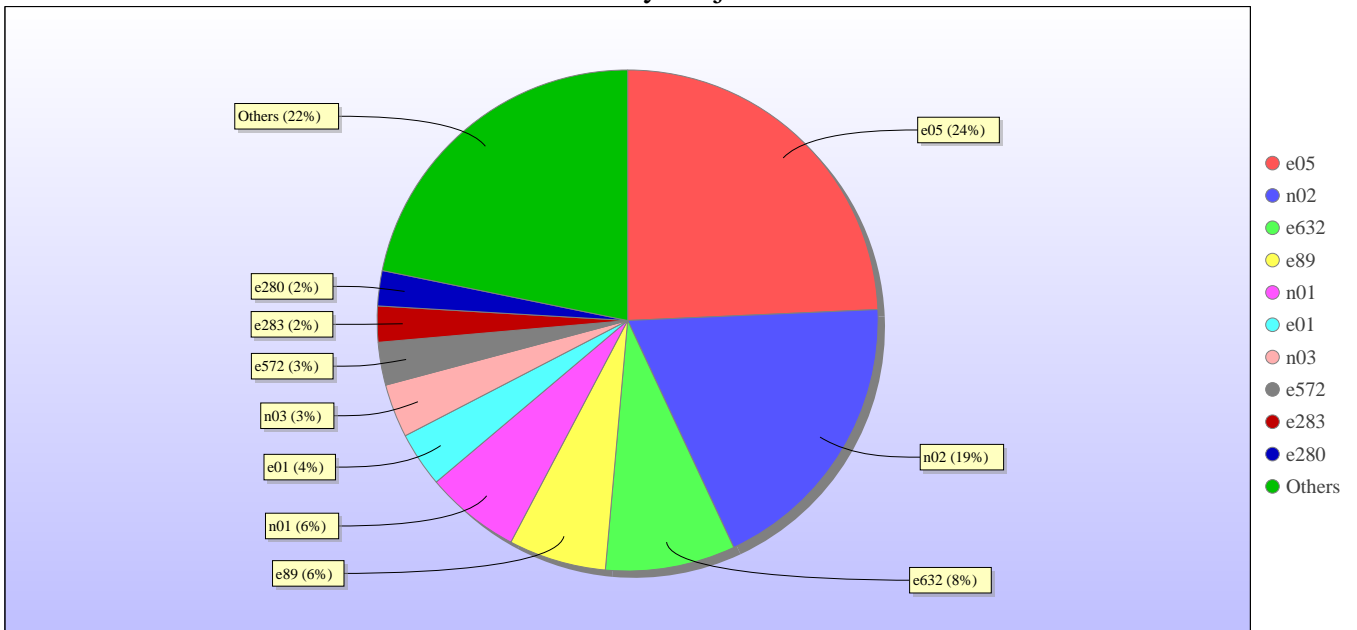
Use by Project



### Uncharged Use by Project



### Jobs by Project

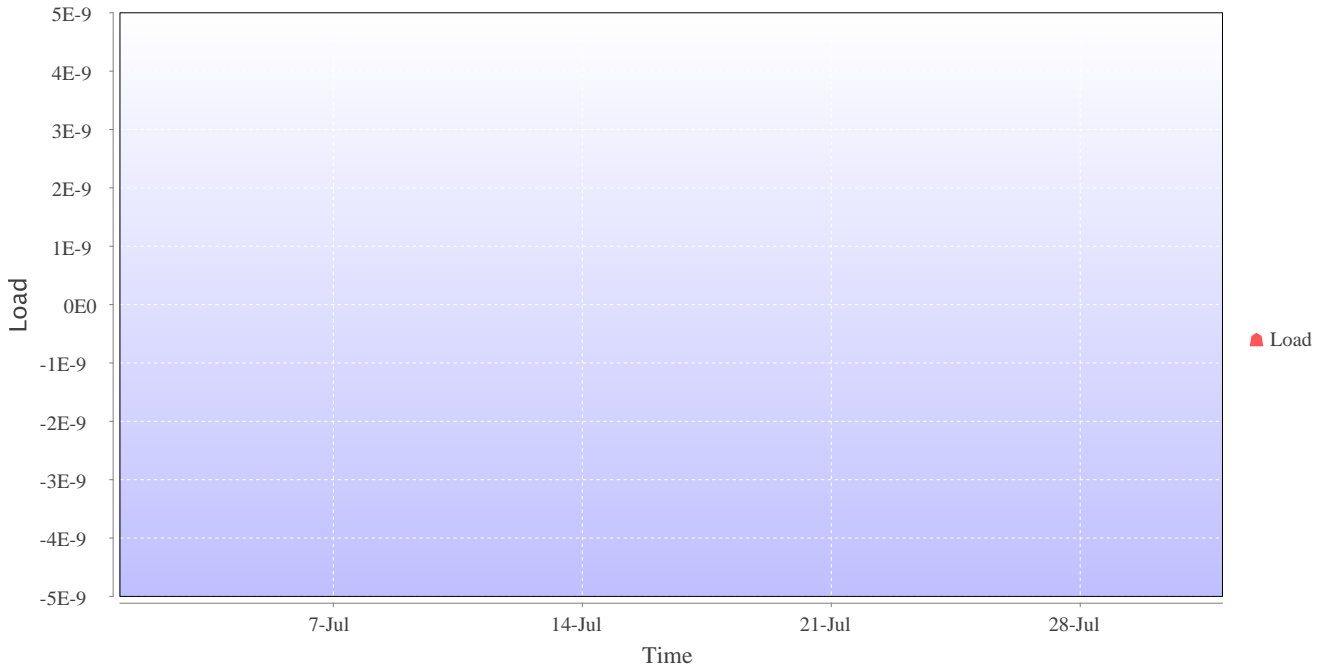


### kAUs (by Size)

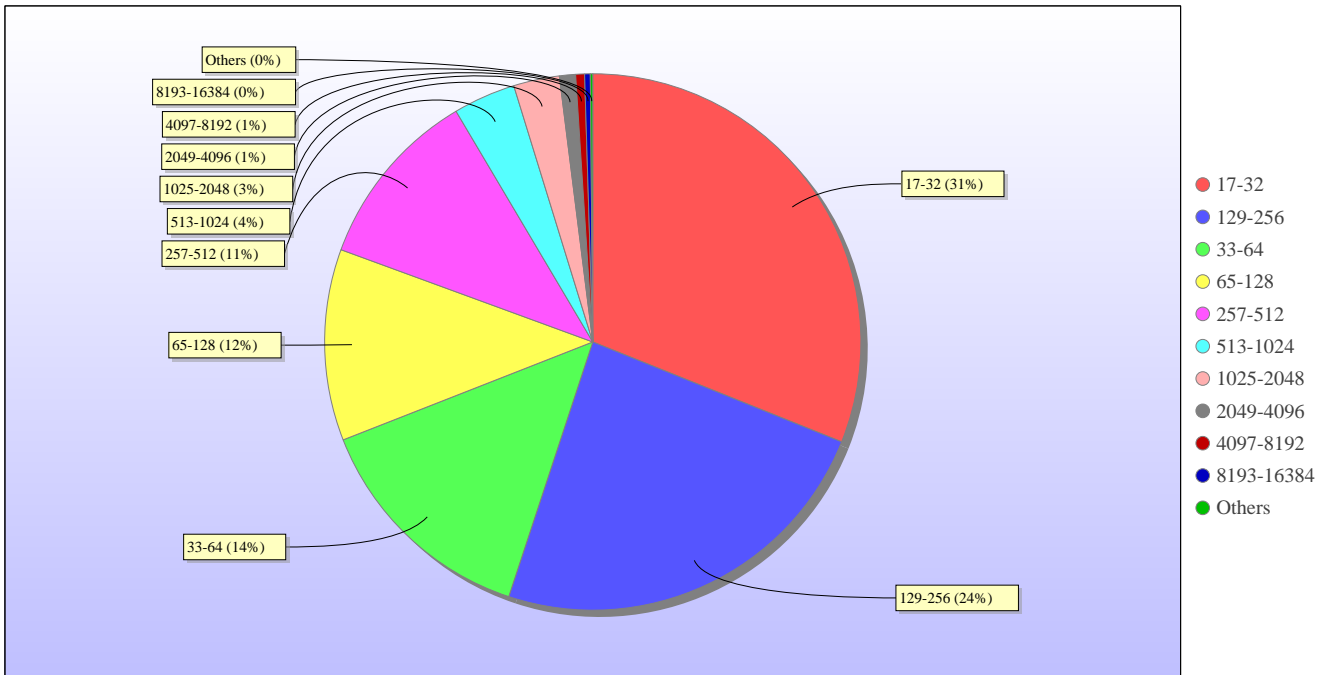
Size	kAUs	Number of Jobs
17-32	4,772.355	14,948
33-64	14,769.937	6,724
65-128	55,512.366	5,551
129-256	168,040.498	11,544
257-512	196,298.499	5,241
513-1024	149,113.625	1,806
1025-2048	141,863.534	1,332
2049-4096	135,196.907	467
4097-8192	59,669.064	257
8193-16384	85,918.421	163
16385-32768	27,450.942	43

Size	kAUs	Number of Jobs
32769-65536	77,161.825	27
65537-131072	12,852.429	1

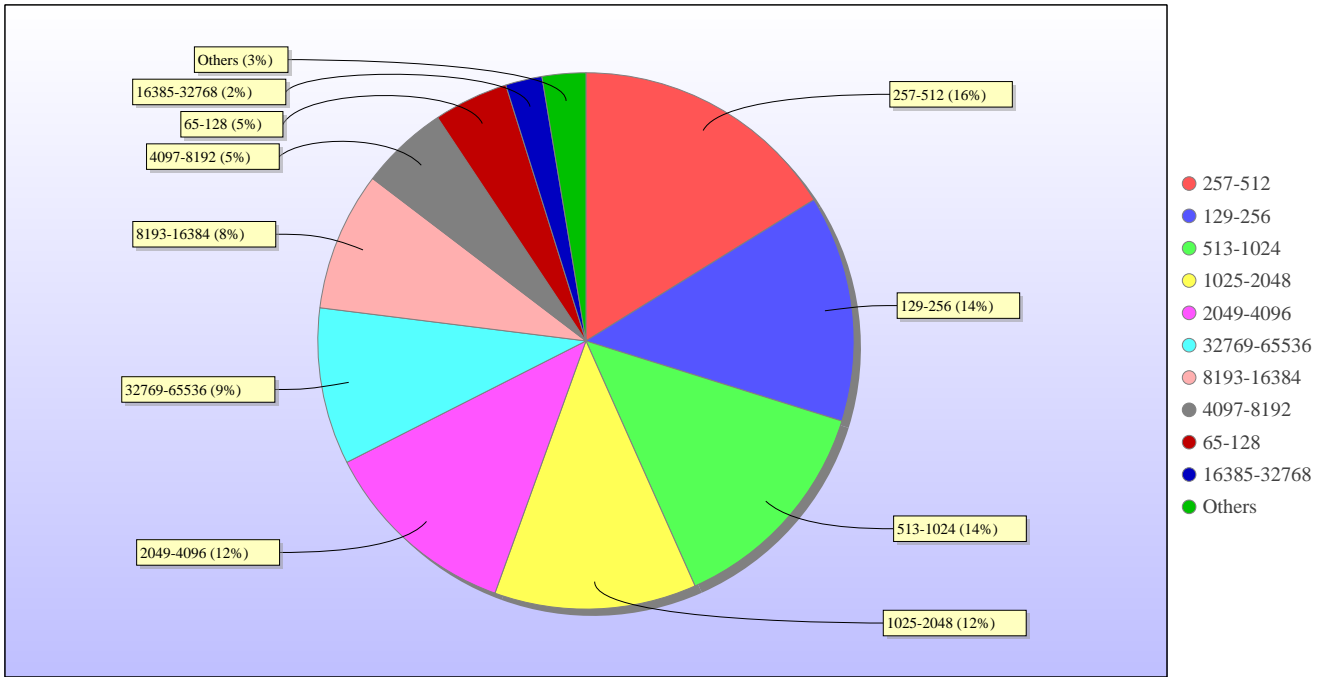
### Load plots



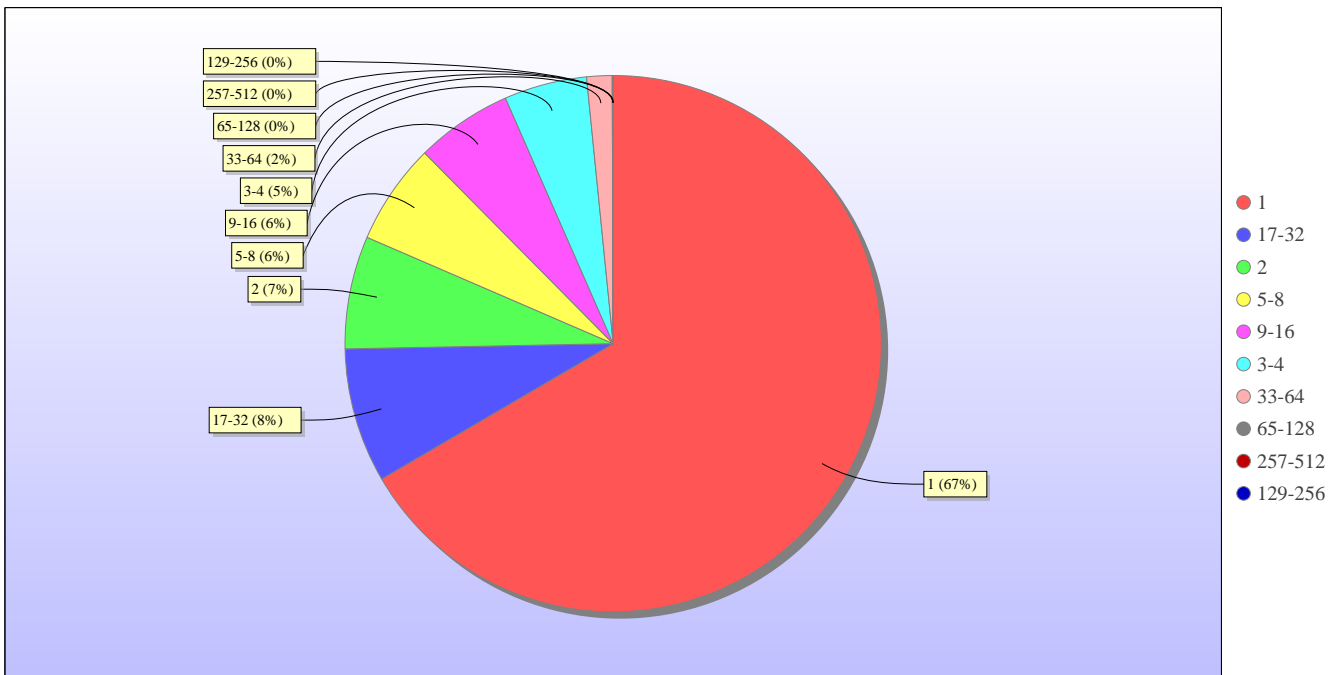
Percentage load on machine



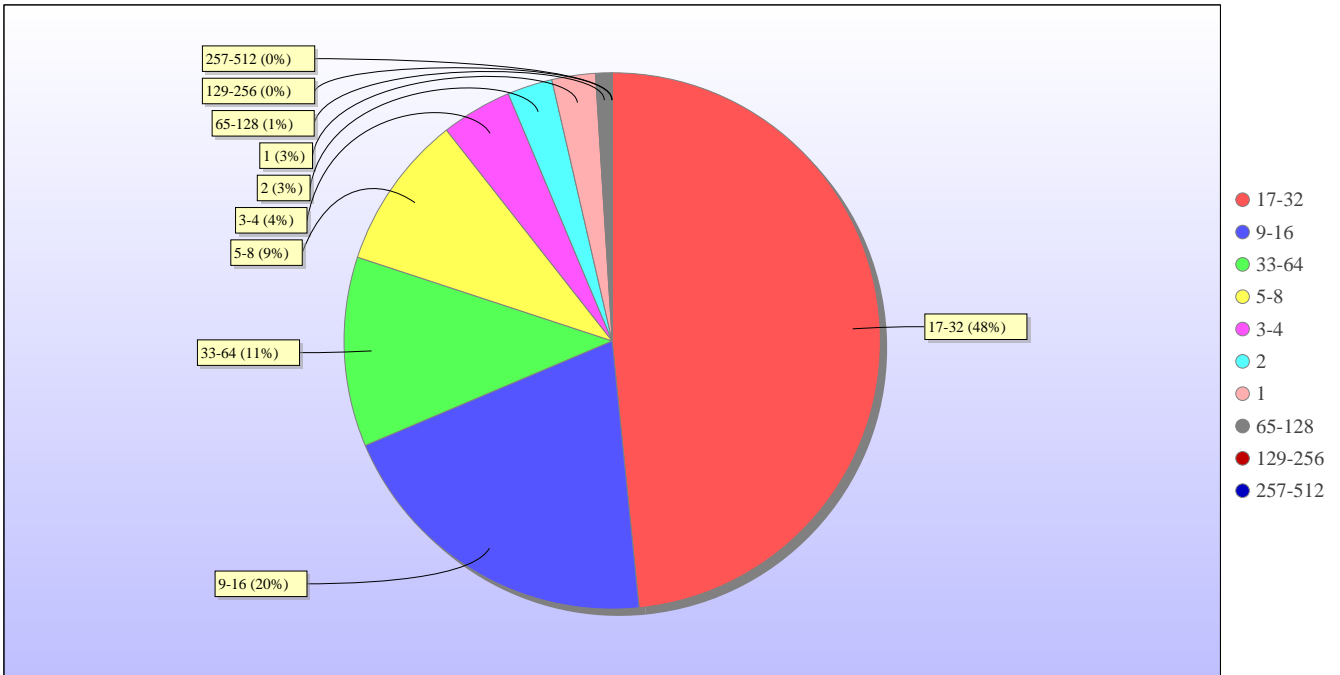
Jobs by Size



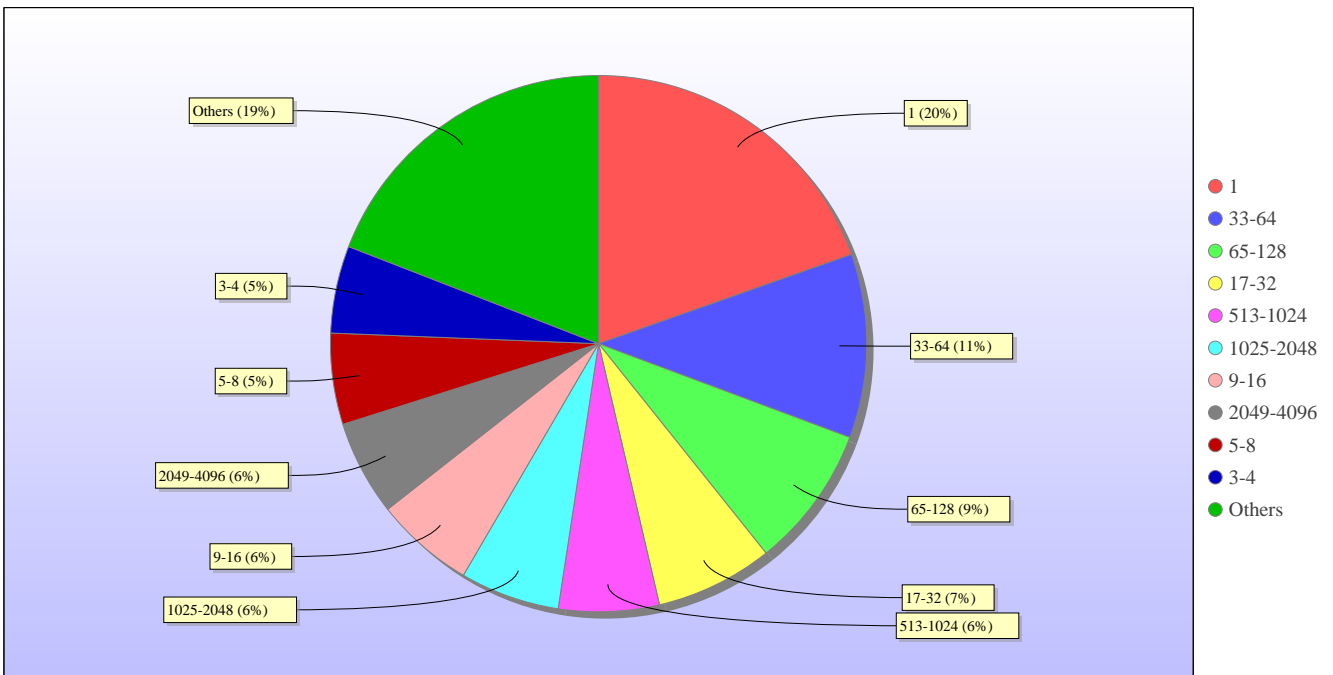
kAUs used by Size



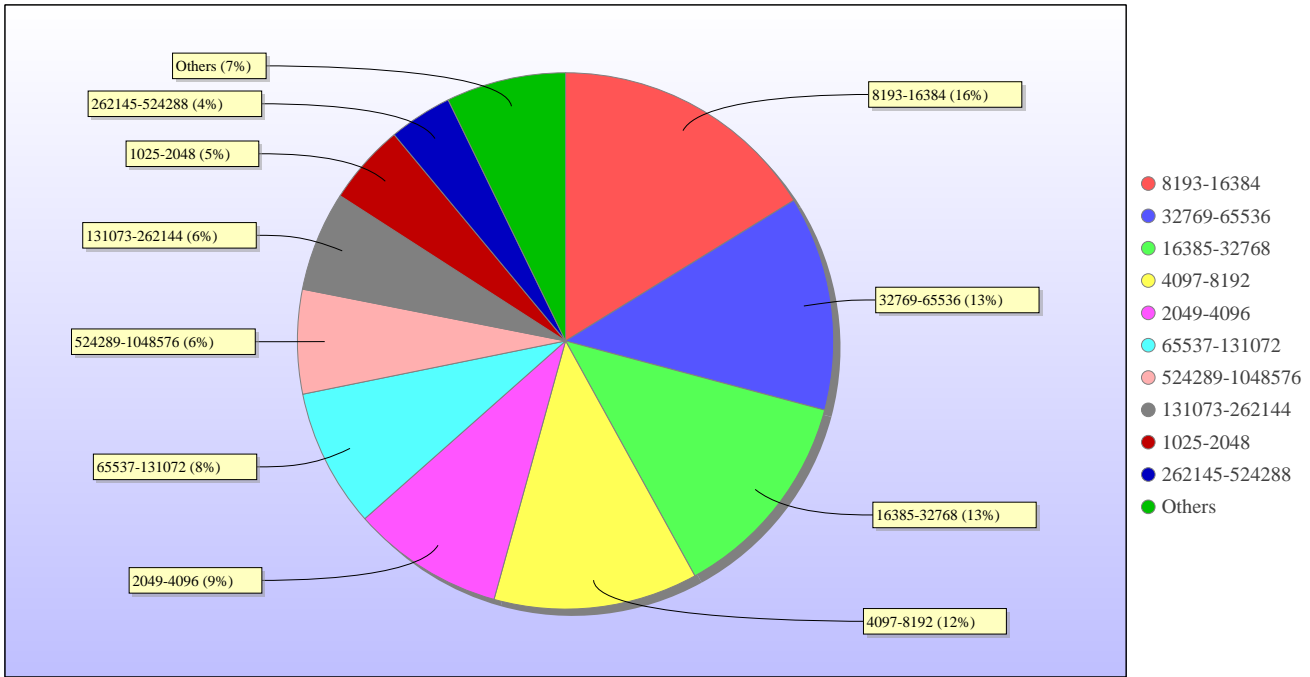
Jobs grouped by wall-clock-hours



kAUs used grouped by wall-clock-hours



Jobs grouped by core-hours



kAUs used grouped by core-hours

## Report for Resource Pool RDF on All machines

A total of 0 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.

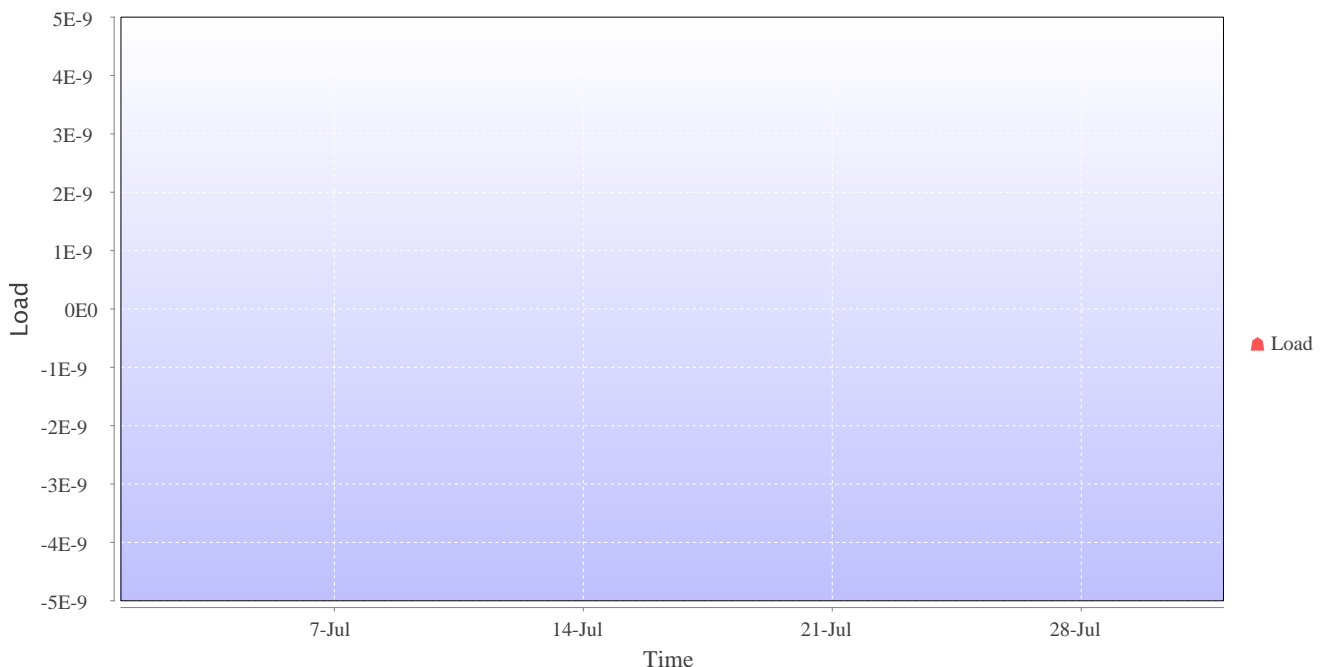
The (Allocation) column is the time allocated to the project, scaled according to the reporting period and shown as a fraction of the available resources. If this report period is a sub-period of the Allocation period then the SAFE calculates the Allocation for this sub-period based on a linear spend 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.

Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation	Project	Project Class
0	0.0	0	0.0	0	0.0	0	Total	



## kAUs (by Size)

### Load plots



Percentage load on machine

## Report for Resource Pool Bede on All machines

A total of 0 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.

Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation	Project	Project Class
0	0.0	0	0.0	0	0.0	0	Total	

## kAUs (by Size)

### Load plots

## Report for Resource Pool KNL on All machines

A total of 0 kAU were available during this period.

## Use and Allocations (by Project)

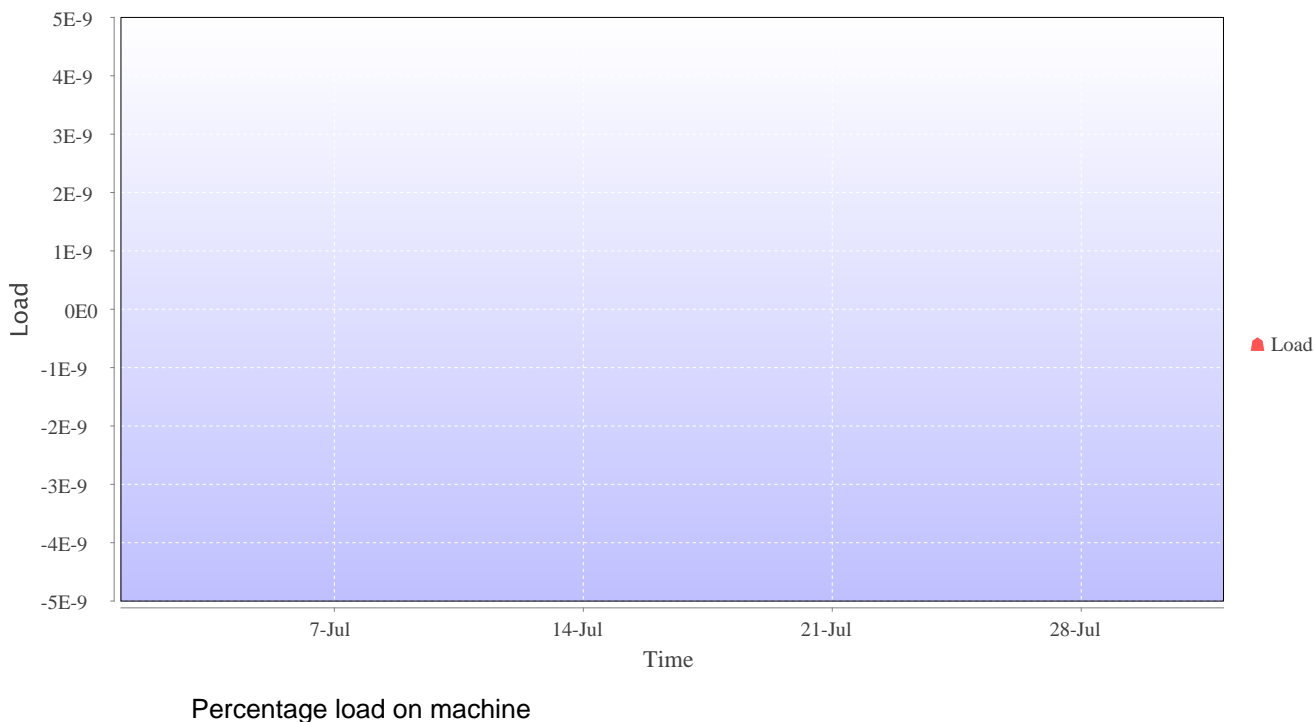
In the following table, Charged refers to usage which was charged against the project Allocation; whereas Used refers to usage including uncharged time. Uncharged time can arise from use of the Low Priority queue and/or during times when charging is disabled on the service.

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.

Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation	Project	Project Class
0	0.0	0	0.0	0	0.0	0	Total	

## kAUs (by Size)

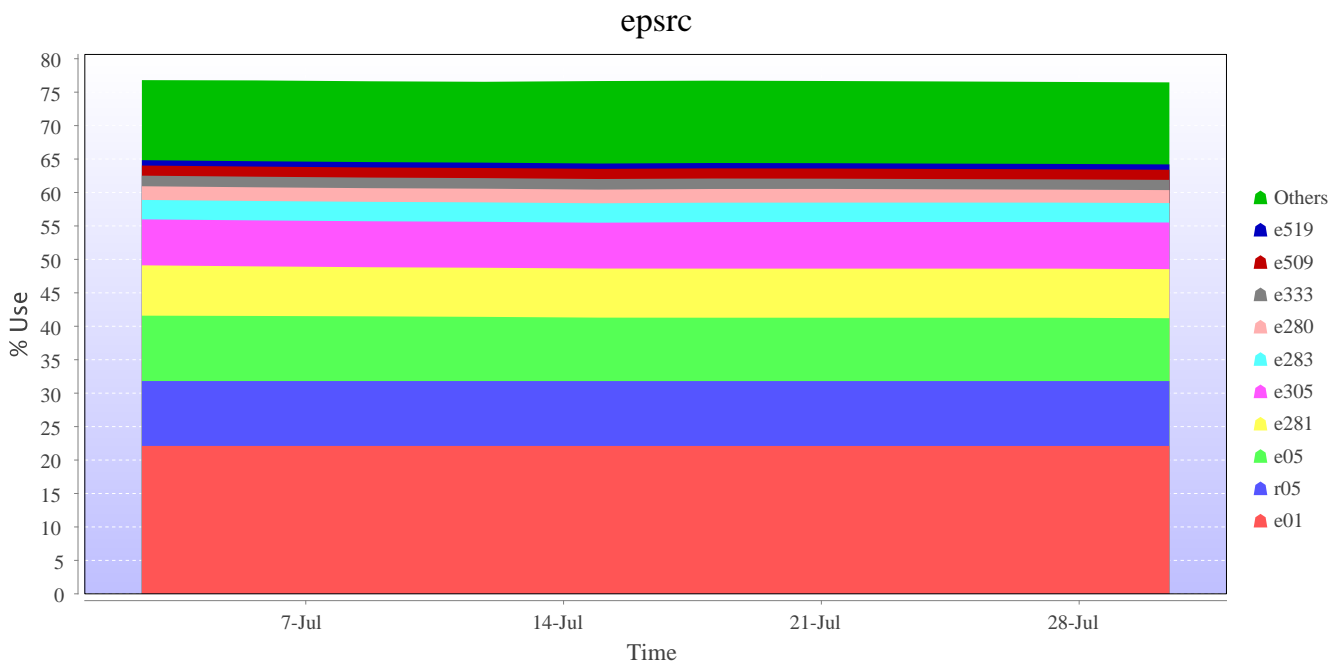
### Load plots



## Disk usage

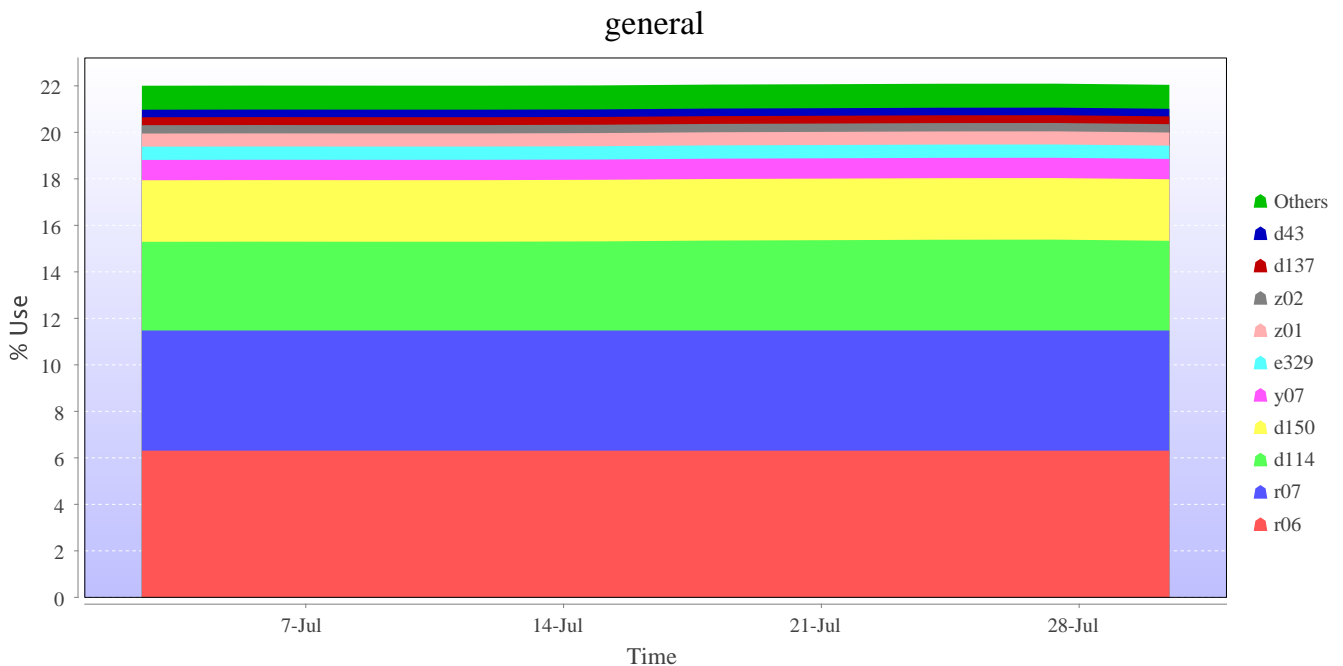
### Disk usage for rdf ( epsrc )

This is a plot of Disk Use on 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.



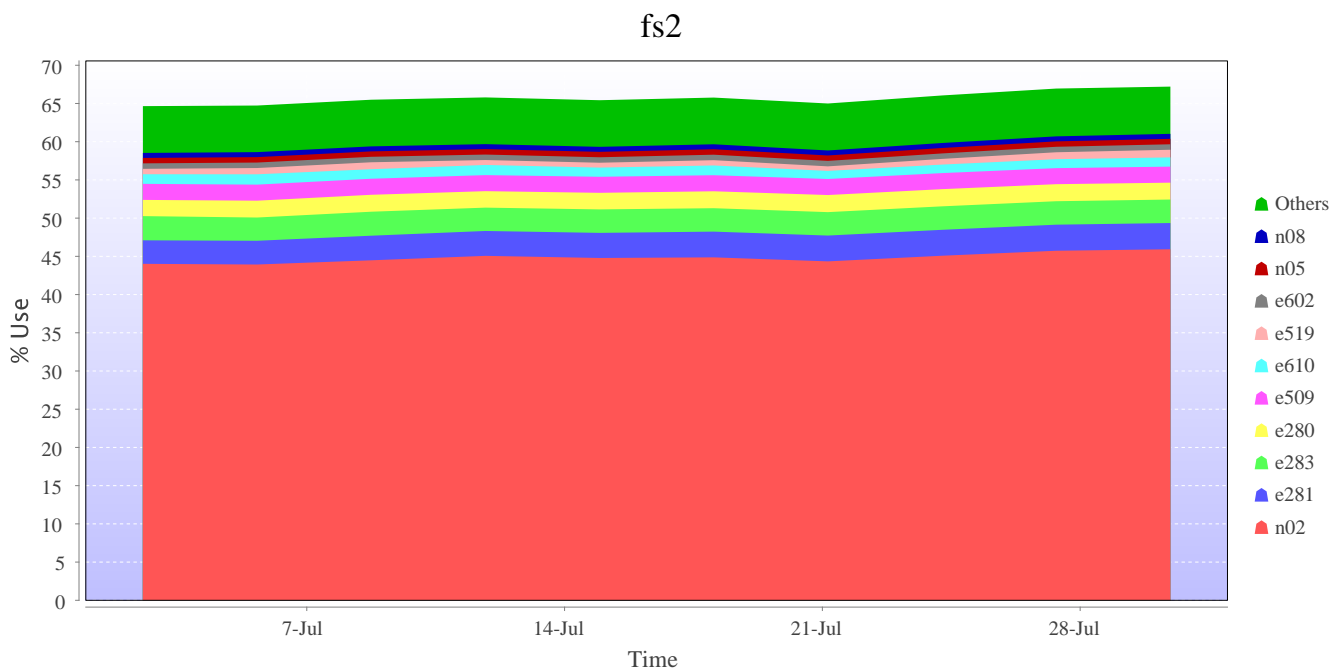
### Disk usage for rdf ( general )

This is a plot of Disk Use on 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.



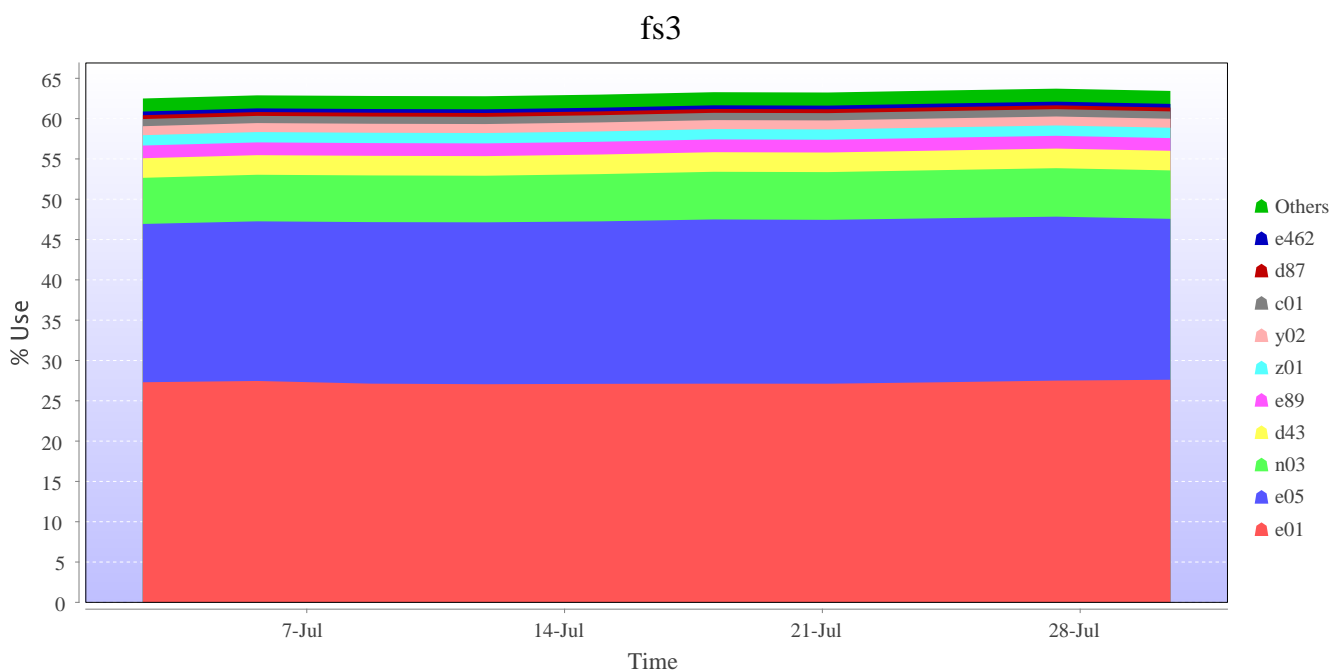
## Disk usage for work ( fs2 )

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.



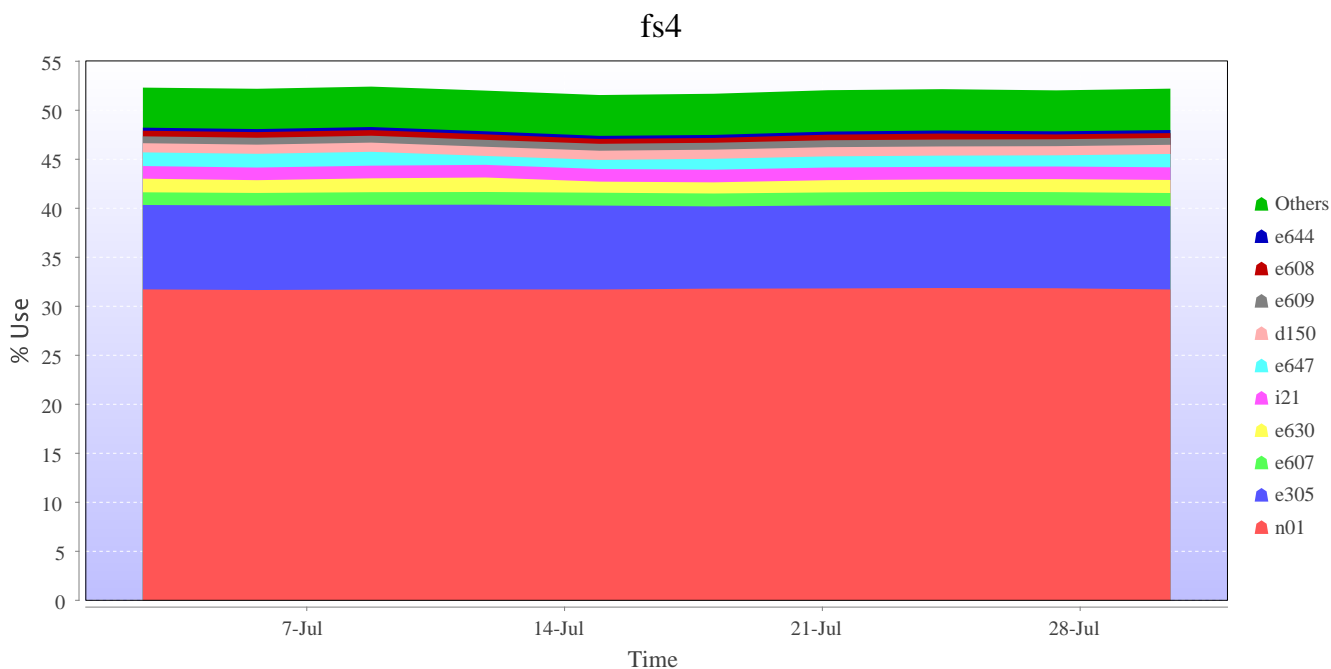
## Disk usage for work ( fs3 )

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.



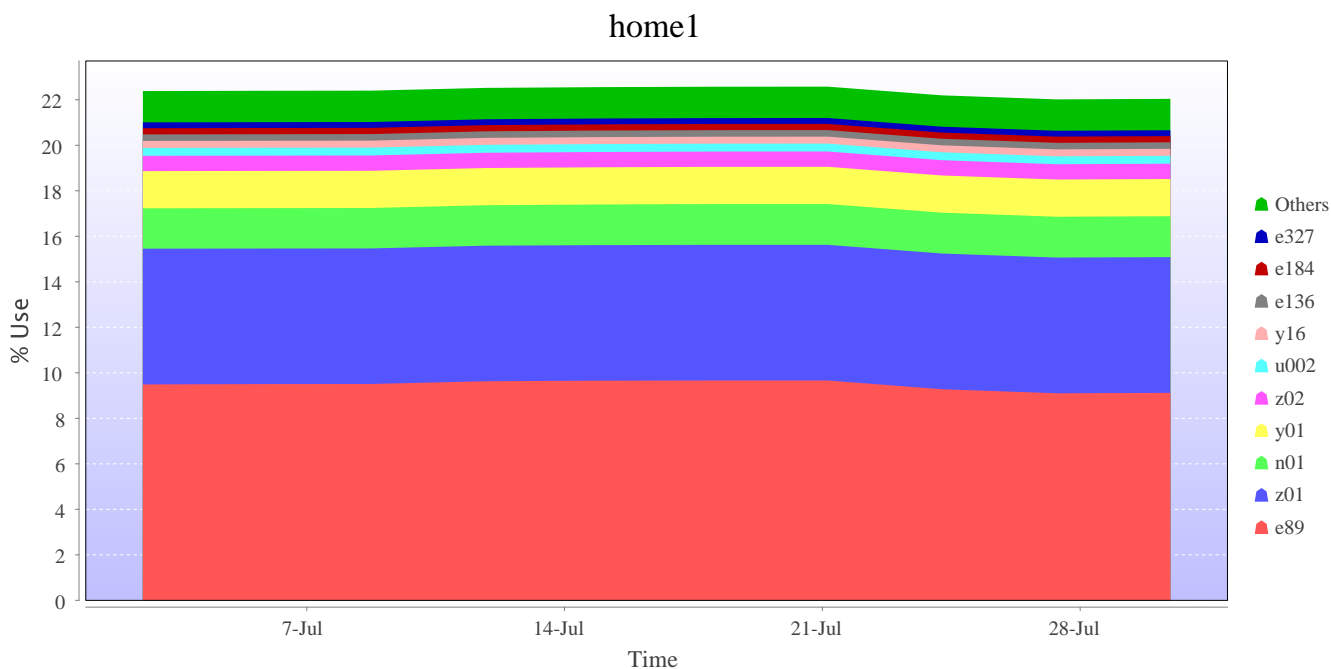
## Disk usage for work ( fs4 )

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.



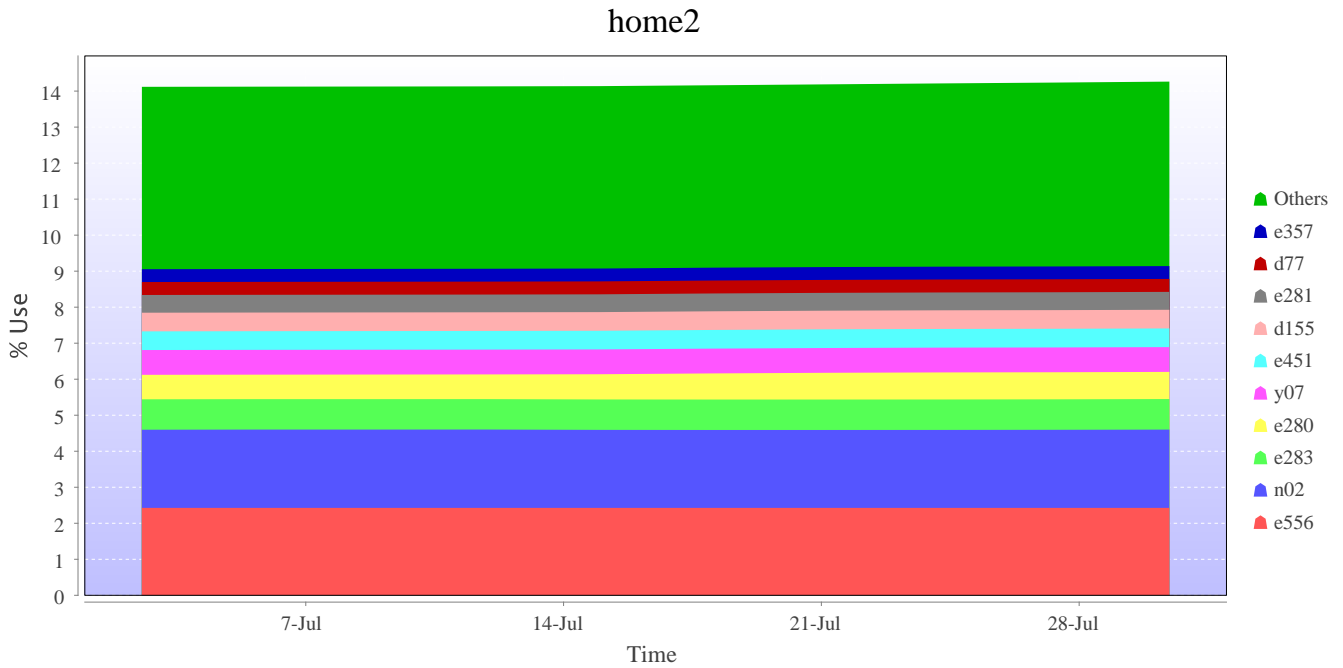
## Disk usage for home ( home1 )

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.



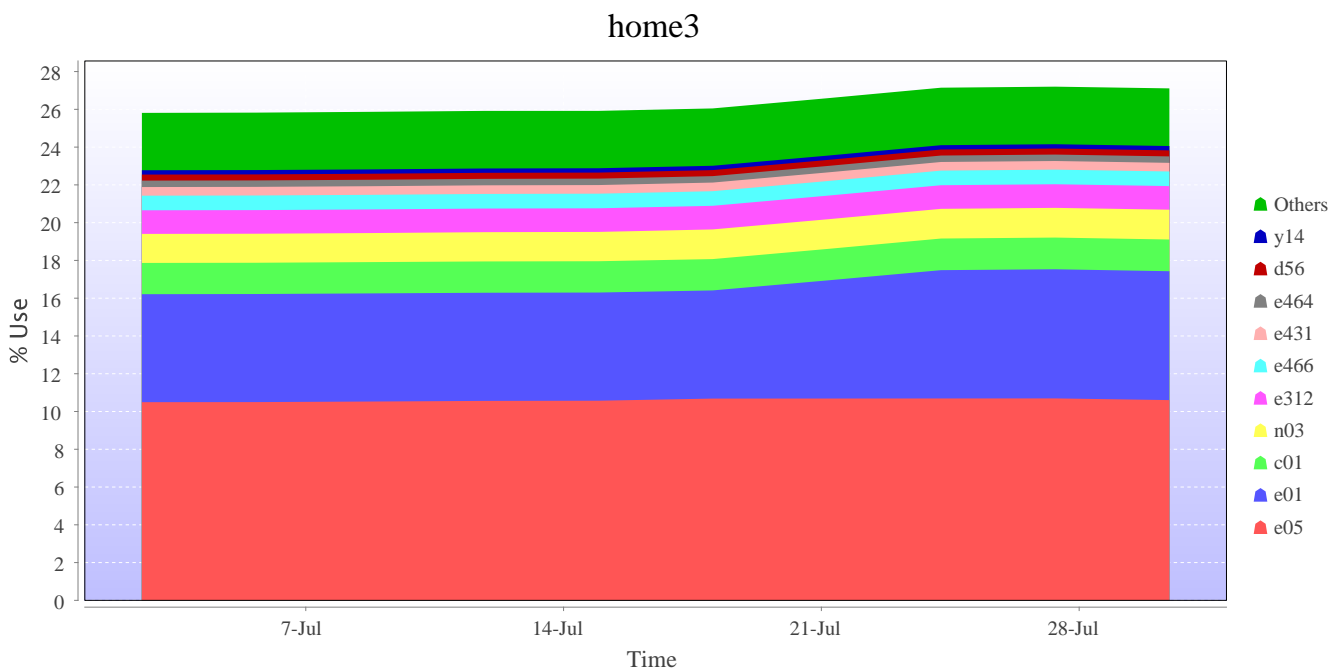
## Disk usage for home ( home2 )

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.



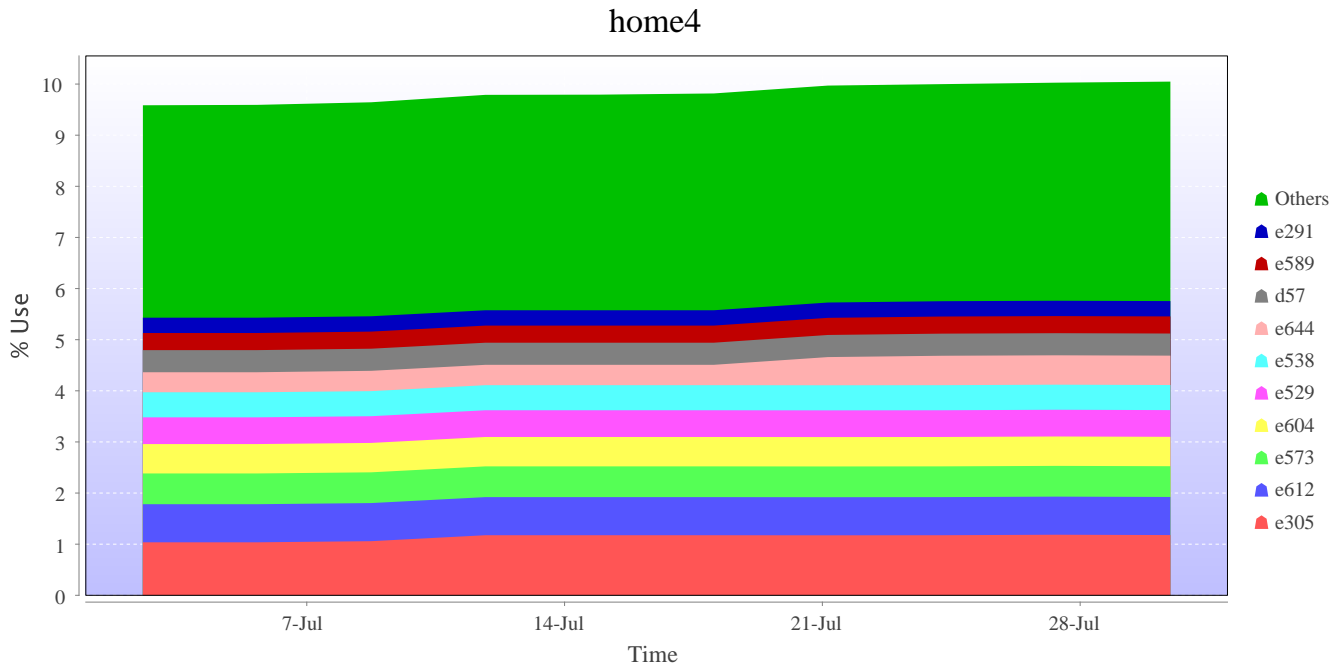
## Disk usage for home ( home3 )

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.



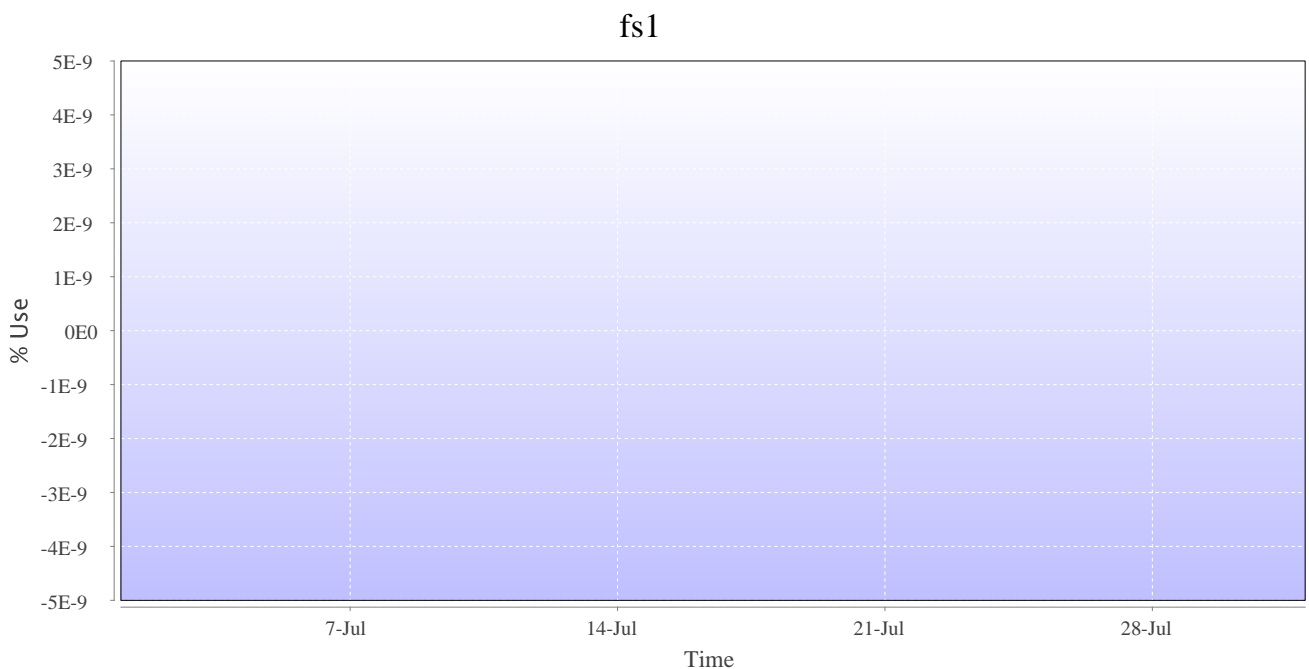
## Disk usage for home ( home4 )

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.



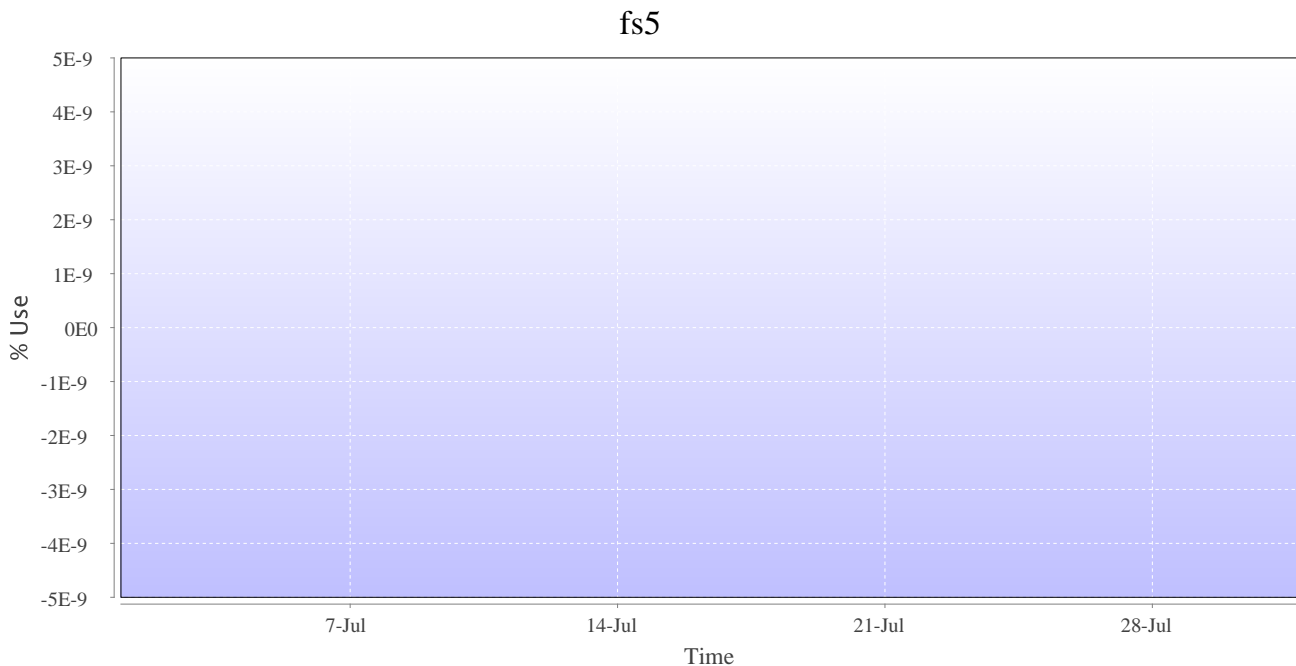
## Disk usage for tdswork ( fs1 )

This is a plot of Disk Use on fs1 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.



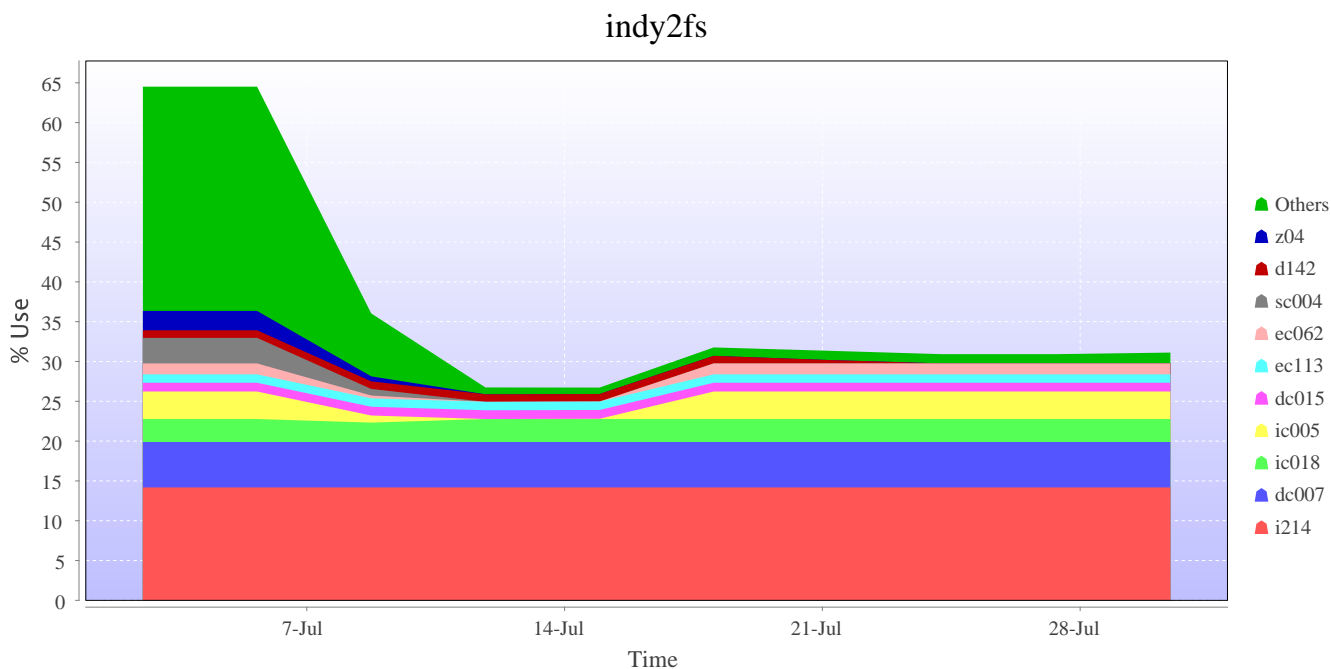
## Disk usage for knlwork ( fs5 )

This is a plot of Disk Use on fs5 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 ( indy2fs )

This is a plot of Disk Use on indy2fs 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 ( archer2-tds-work )

This is a plot of Disk Use on archer2-tds-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.

