



Lustre Statistics

(Refreshes every 60 seconds)

Select timespan:

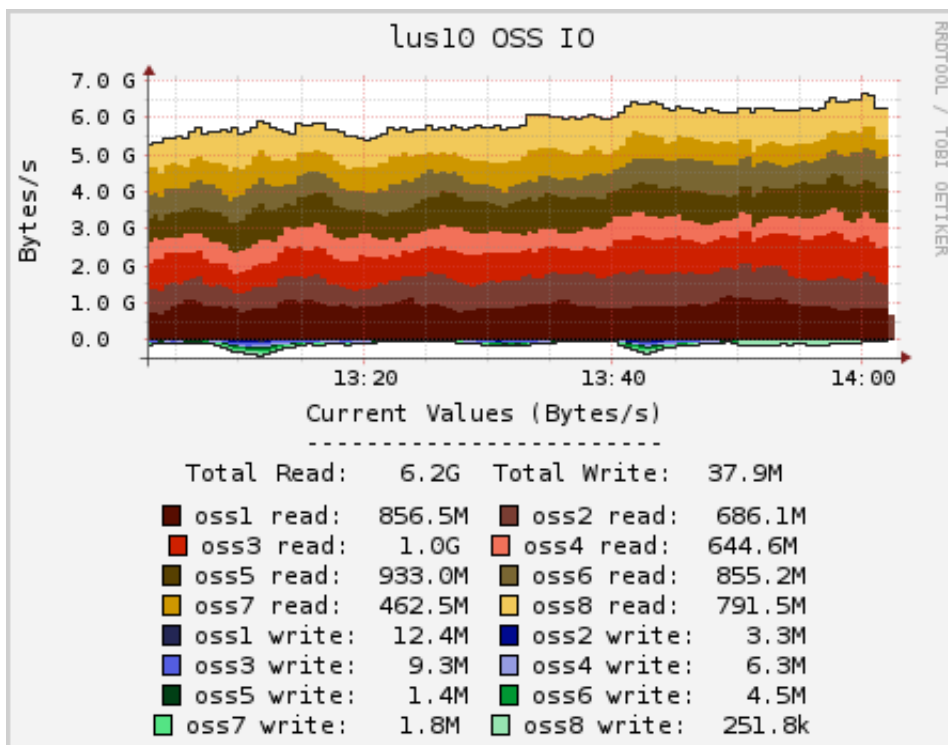
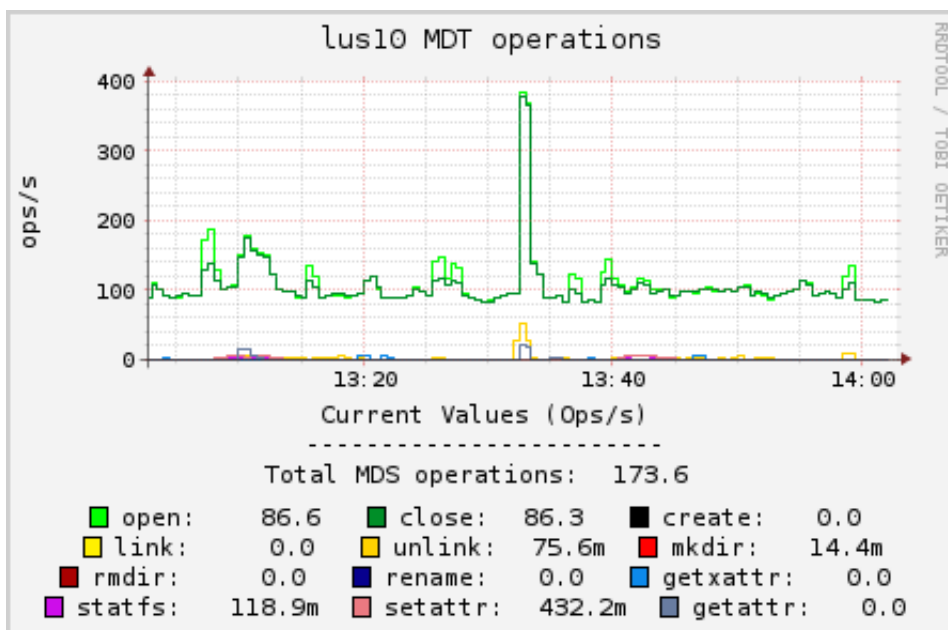
1 Hour

Select Filesystem:

scratch110

Select statistics:

Average Maximum Minimum



Notes:

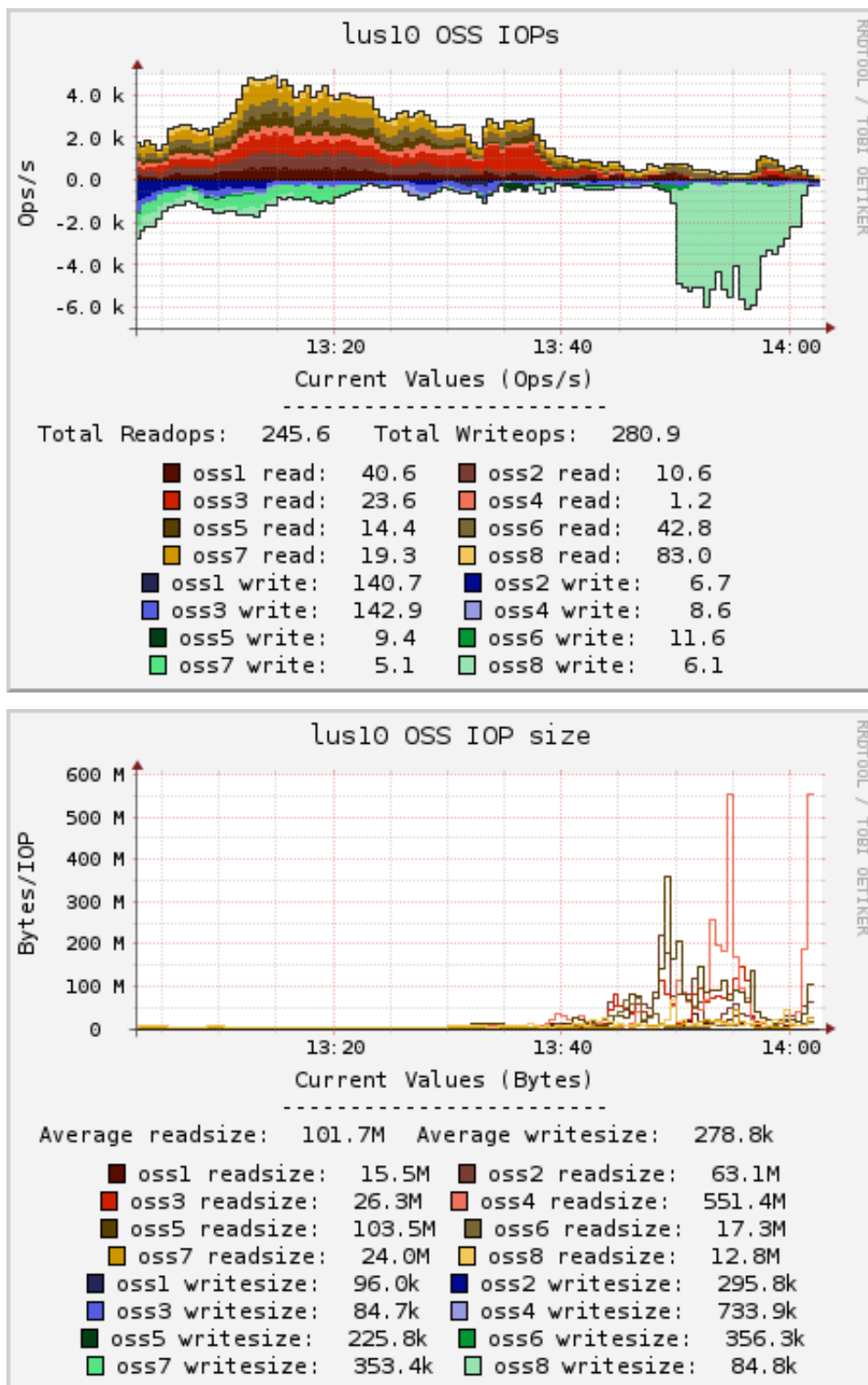
MDT Operations

metadata operations. File creates may be counted as open operations.

OSS IO

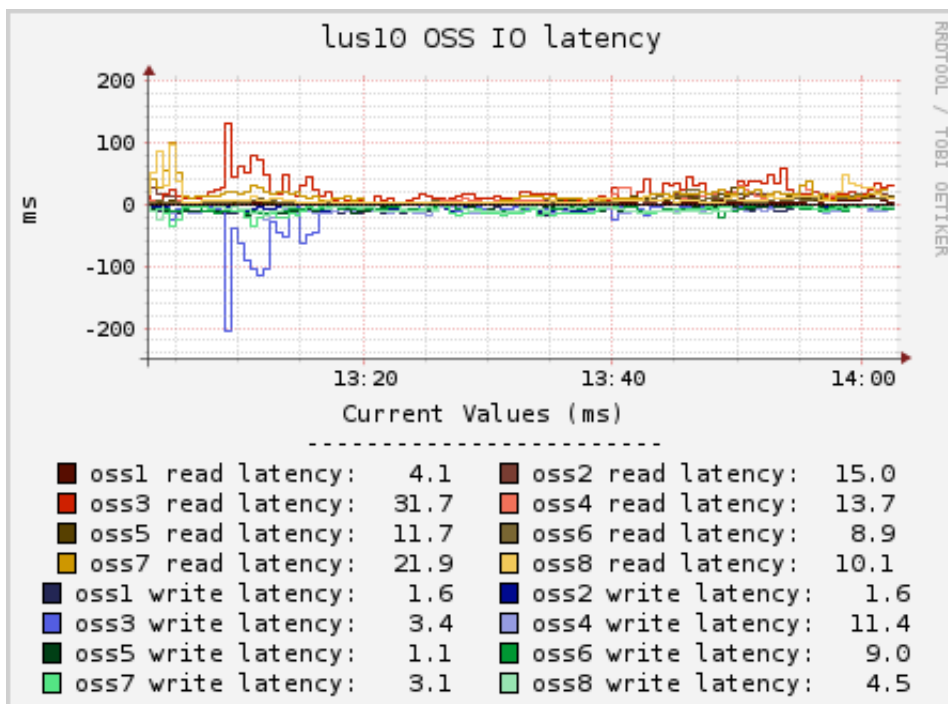
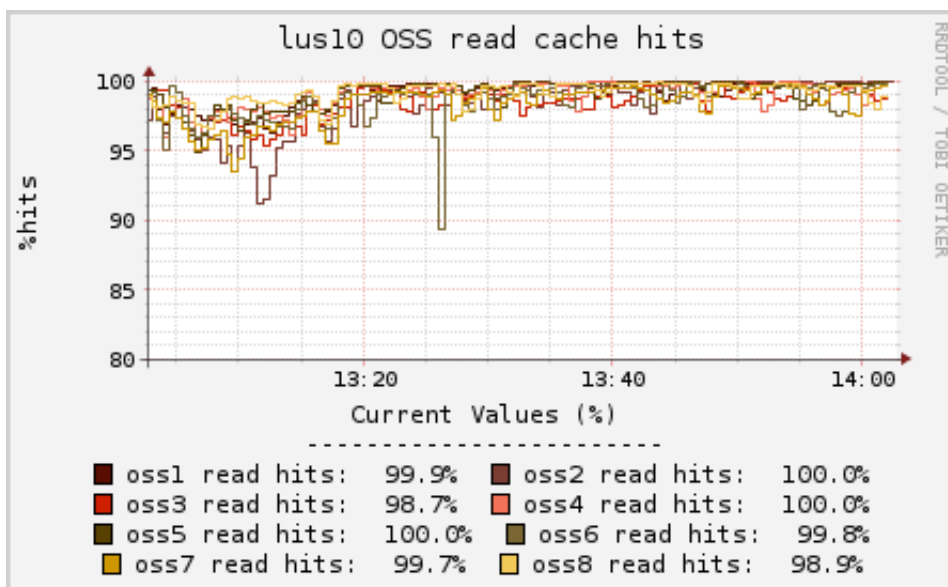
Number of bytes read/write by the clients. Maximum theoretical IO is 6 Gbytes/s for scratch104...107, ~10 Gbytes/s for scratch108...111 and 16 Gbytes/s for scratch112...

Unbalanced IO across OSSs suggests incorrectly striped large files.



Notes

- OSS IOPs** Number of OSS disk read/write operations per second. More than 2k IOPs will impact interactive performance.
- OSS IOP size** Average size of the disk IOP. Larger IOPs (>1Mbyte) are more efficient.



Notes

- OSS cache hits** Percentage of reads that were serviced from memory on the OSS, rather from disk.
- IO Latency** Average time to complete a disk IO request. High latency (>75ms) will impact interactive performance.

Notes

These numbers are proportional to the load that we GUESS a user is generating. To see how this can go wrong please [read the FAQ entry](#).

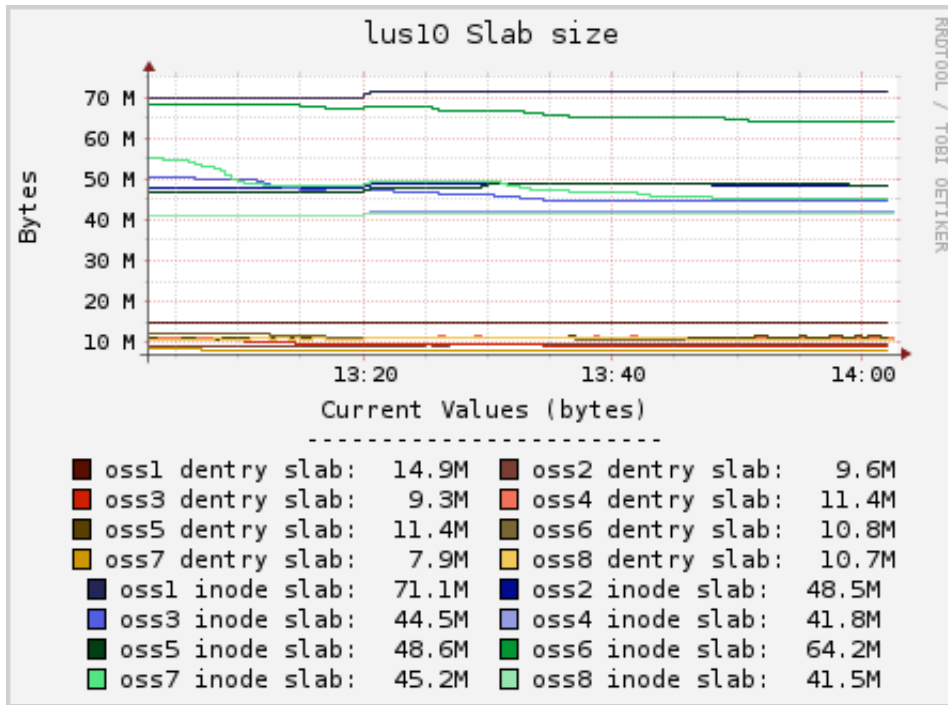
OSS data

User Name	
srpipe	7980116
popper	389845
ces	316738
bc-24-2-02	27295
jillian	24315
bc-23-3-04	12008
bc-19-1-12	6572
bc-20-1-07	6410
bc-22-4-10	6203
bc-19-3-11	6189
bc-19-2-09	6109

MDS data

User Name	
srpipe	10014
farm3-head1	4510
bc-23-2-09	440
bc-26-1-11	244
ces	148
bc-23-3-07	132
bc-26-2-16	132
bc-26-2-12	127
bc-25-1-09	121
bc-24-3-04	120
bc-27-2-10	119

bc-23-1-09	6028	bc-26-2-06	119
bc-24-3-11	5897	bc-27-3-02	113
bc-19-3-09	5890	bc-25-1-10	112
bc-19-4-04	5624	bc-27-2-07	111
bc-19-2-15	5477	bc-25-2-08	111
bc-19-1-08	5354	bc-23-2-08	110
bc-20-2-11	5258	bc-25-2-09	110
bc-24-3-12	5250	bc-24-3-01	110
bc-22-4-14	5230	bc-27-3-04	110



Notes

Dentry & Inode slab Amount of memory used to cache object metadata on the OSSs

[Explained in the LUG presentation](#)

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http://apps.sanger.ac.uk/reports/it/lst/diagnostics/farm3/cgi/lustre.cgi?_submitted=1&pan=1hour&filesystem=lus10&cfactor=AVERAGE