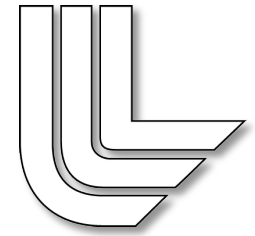


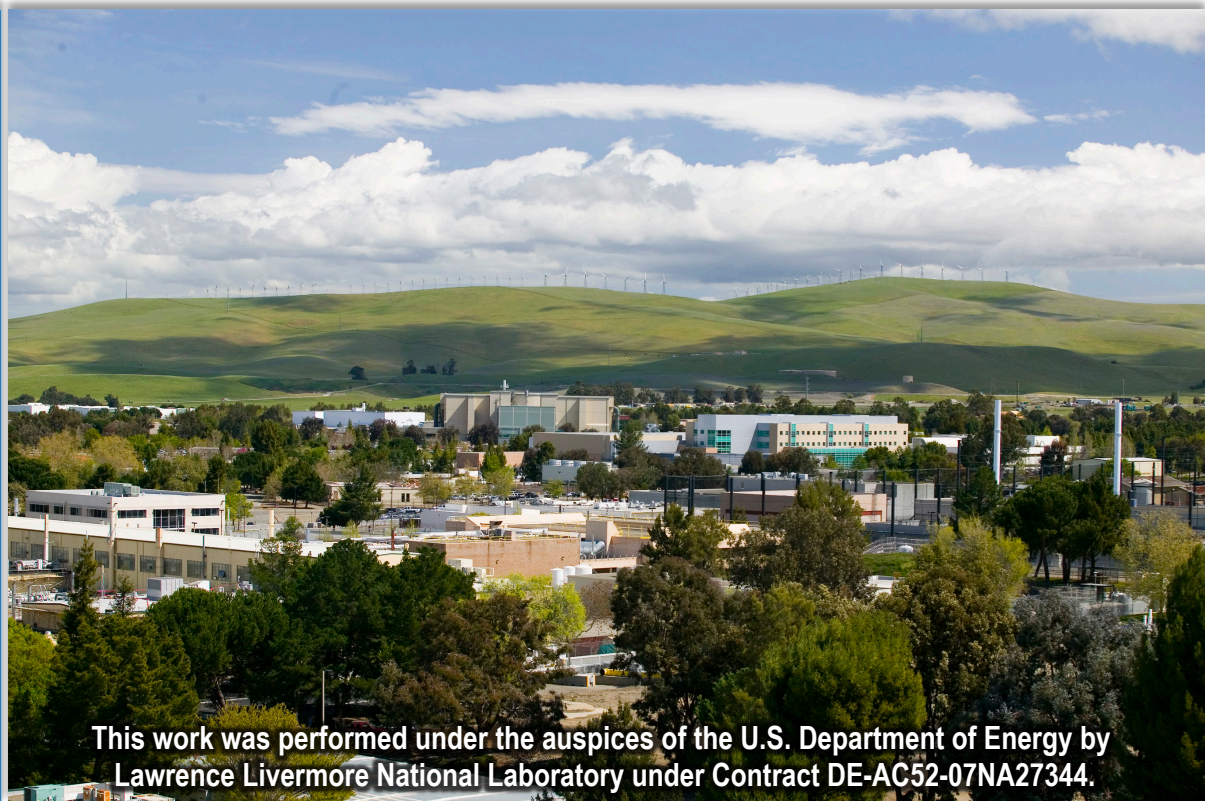
Lustre Status



Marc Stearman
Parallel File System Operations Lead
Lawrence Livermore National Laboratory

4/23/2015

LLNL-PRES-670729



This work was performed under the auspices of the U.S. Department of Energy by
Lawrence Livermore National Laboratory under Contract DE-AC52-07NA27344.



Changes Since Last User Meeting

- Focused on Stability
- Improved network monitoring and corrective action
- Addressing Out of Memory conditions on Metadata Servers



Changes Since Last User Meeting

- Fixed a number of Lustre Bugs
- Numerous ZFS improvements
- Continuing to engage Intel on Software Development Practices



Parallel File System Summary (OCF)

OCF File Systems	Bandwidth	Capacity	OSS	OSTs	% Full April 2015
lscratchrb	18GB/s	1.2PB	16	16	68
lscratchf	36GB/s	2.4PB	16	32	55
lscratchd	90GB/s	5.7PB	80	80	65
lscratche	90GB/s	5.7PB	80	80	67
lscratchv	106GB/s	6.7PB	96	96	53

No Changes since last meeting. Nothing anticipated until CTS-1 OCF systems arrive.



Parallel File System Summary (SCF)

SCF File Systems	Bandwidth	Capacity	OSS	OSTs	% Full April 2015
lscratch1	850GB/s	53PB	768	768	27
lscratch3	90GB/s	5.7PB	80	80	50
lscratch6	90GB/s	5.7PB	80	80	10
lscratch7	90GB/s	5.7PB	80	80	66

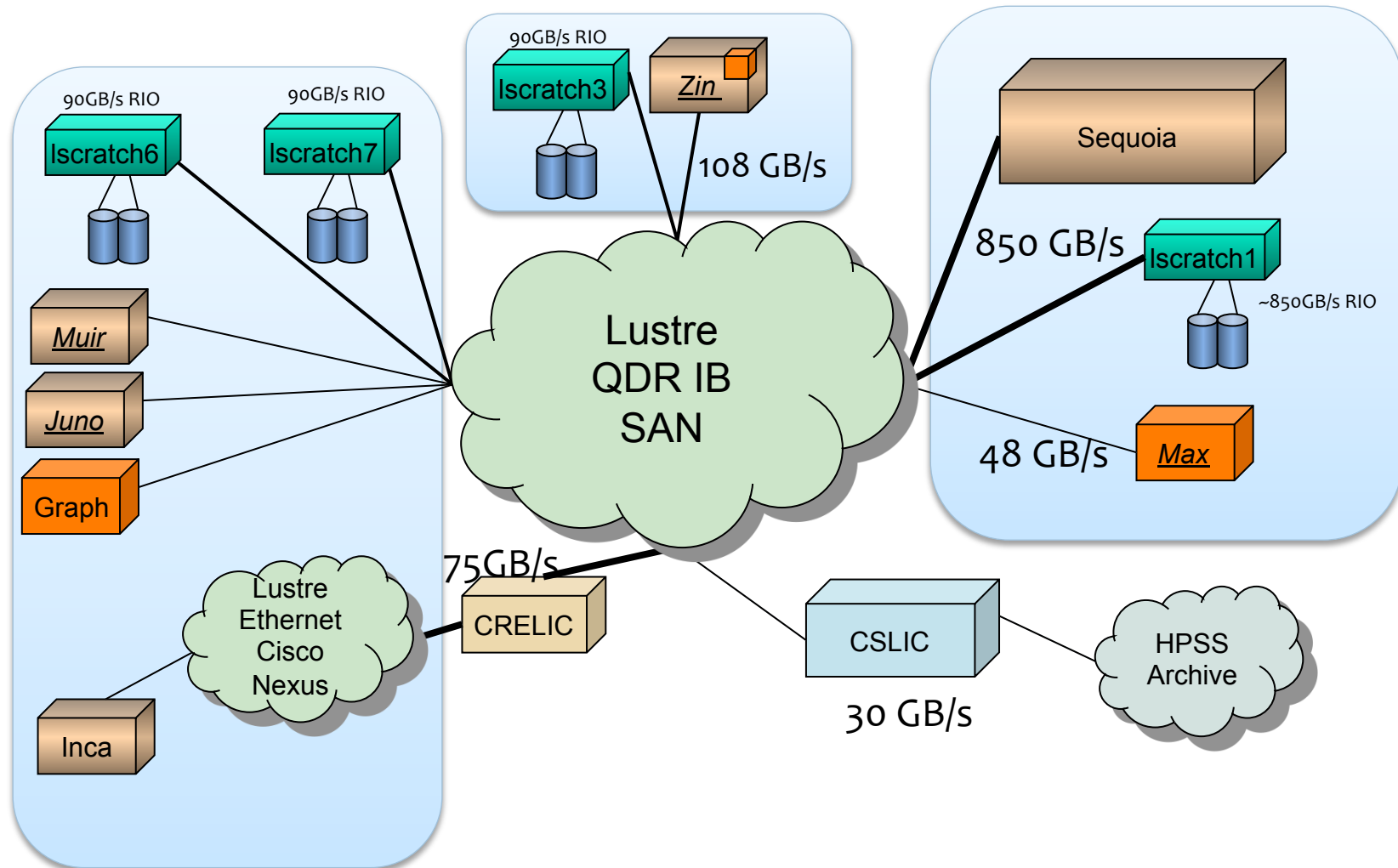
No Changes since last meeting. Nothing anticipated for near future.



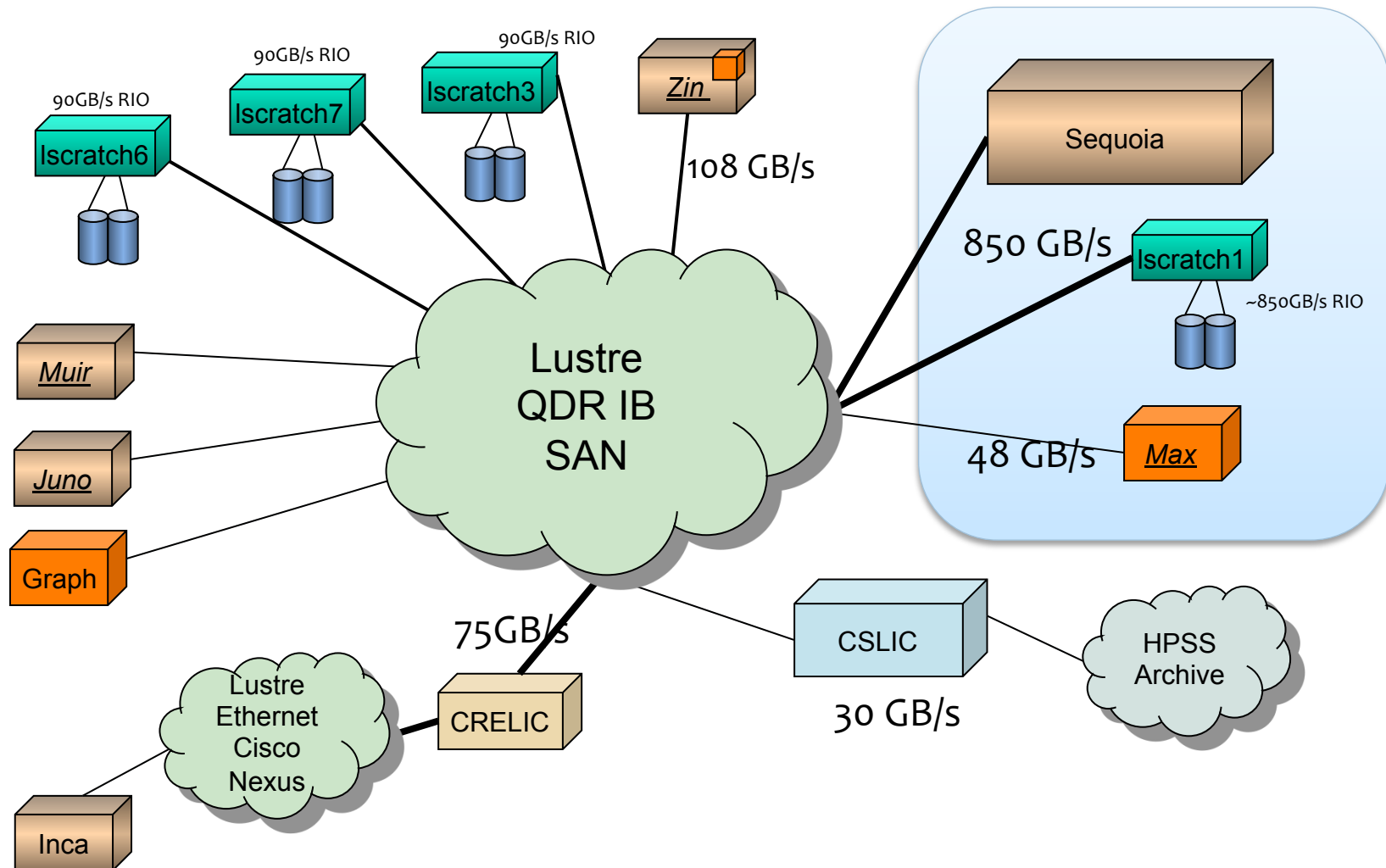
Upcoming plans

- Add SSD storage to MDS
 - increases performance
 - allows for more files
- Prototyping Non-Purgeable project space
- The Return of Globally Mounted Lustre?!

File System Locality – November 2014



Proposed File System Locality – May 2015



Questions?



Marc Stearman
stearman2@llnl.gov
925.423.9670