

# Lustre Status:

Nov 13, 2014



**Marc Stearman**

**Parallel File System Operations Lead**

This work 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

- Replaced aging disk systems with more reliable hardware
- Expanded some of the file systems
- Doubled memory in MDS nodes
- Replaced spinning disk with SSDs on MDS nodes
- Reduced some network complexity

## Changes Since Last User Meeting

- Moved to a single software stack
- Improved network monitoring
- Fixed a number of Lustre Bugs
- Engaging Intel on Software Development Practices

## Parallel File System Summary (OCF)

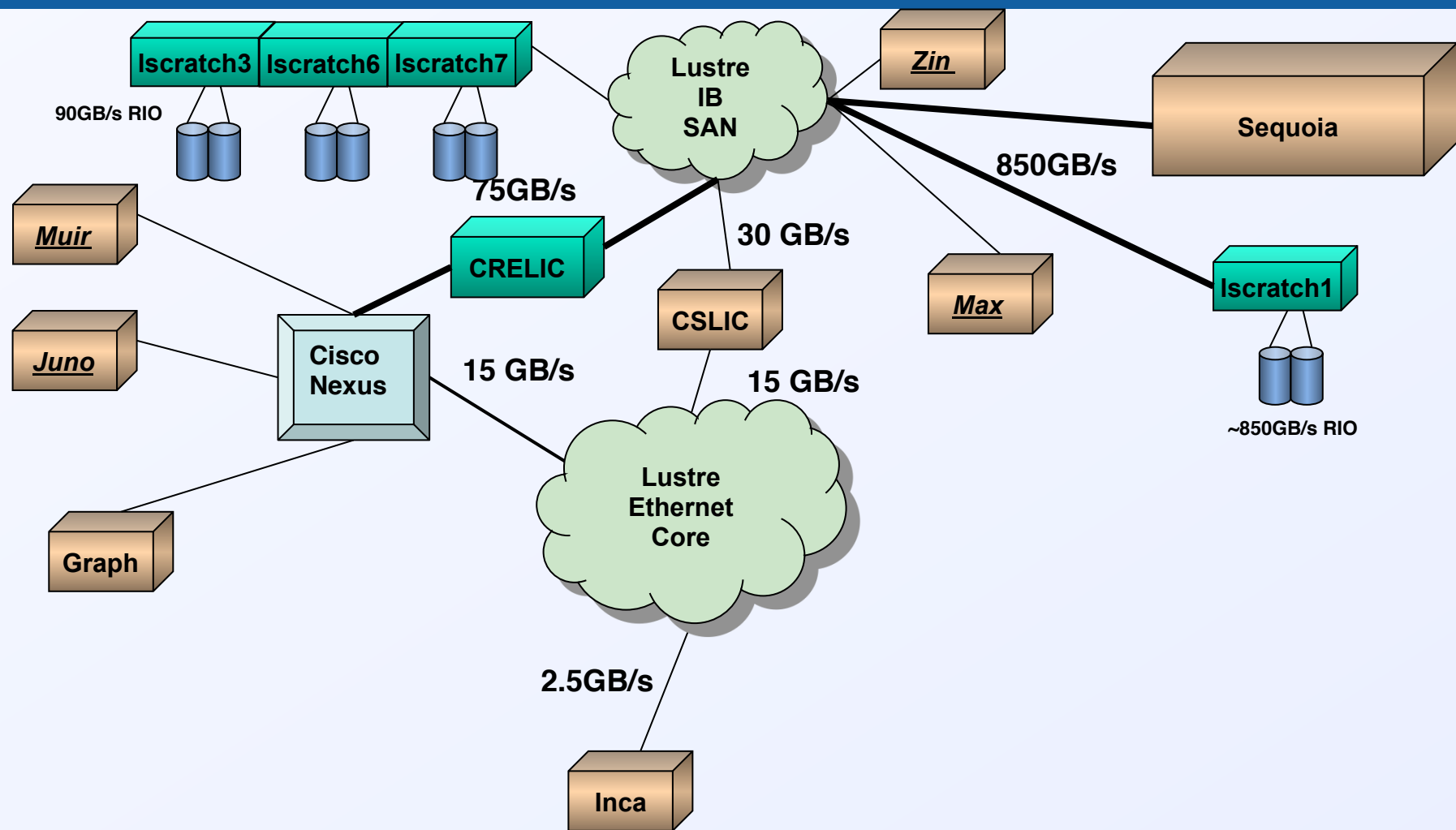
OCF File Systems	Bandwidth	Capacity	OSS	OSTs
lscratchrb	18GB/s	1.2PB	16	16
lscratchf	36GB/s	2.4PB	16	32
lscratchd	90GB/s	5.7PB	80	80
lscratche	90GB/s	5.7PB	80	80
lscratchv	106GB/s	6.7PB	96	96



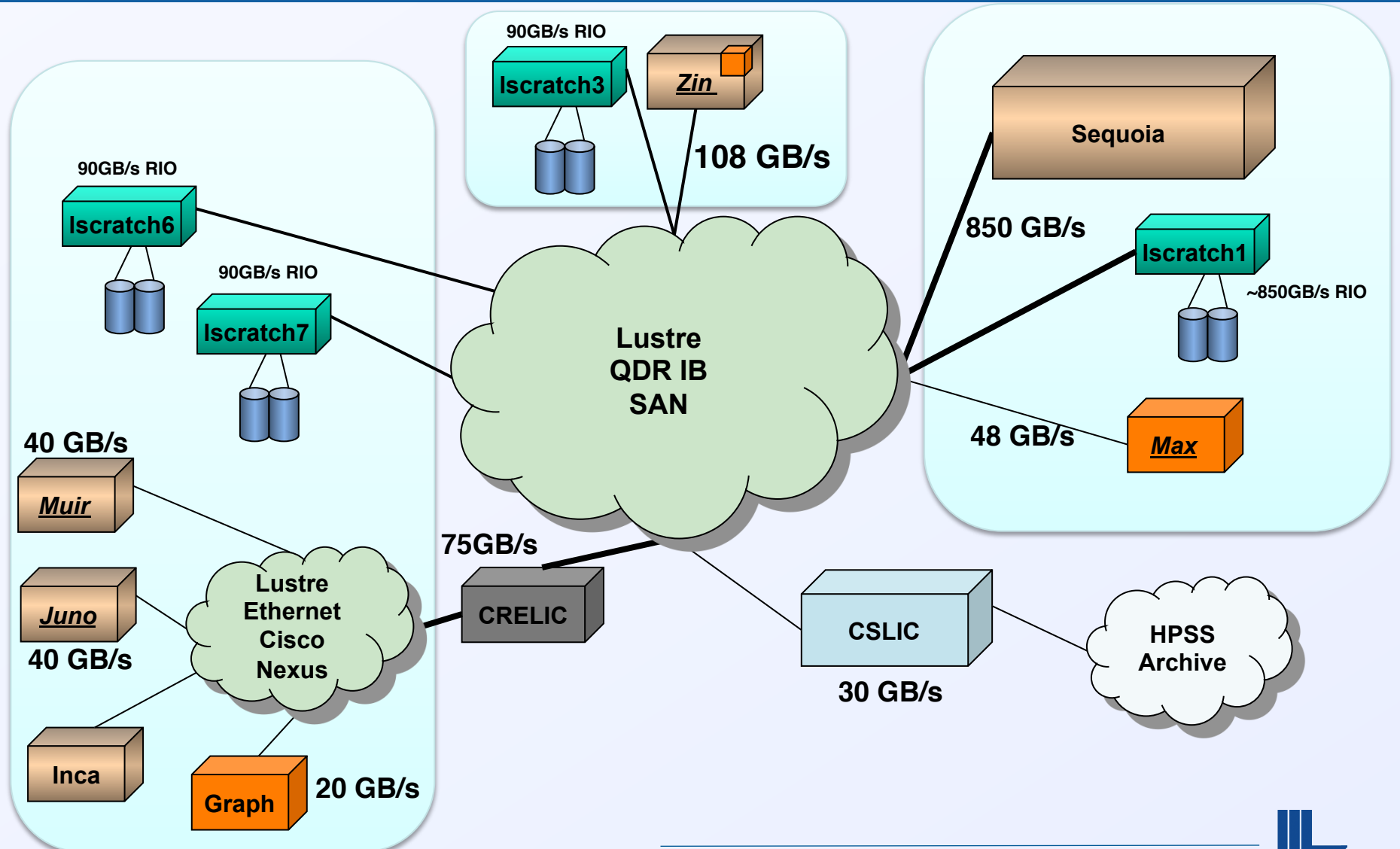
## Parallel File System Summary (SCF)

SCF File Systems	Bandwidth	Capacity	OSS	OSTs
lscratch1	850GB/s	53PB	768	768
lscratch3	90GB/s	5.7PB	80	80
lscratch6	90GB/s	5.7PB	80	80
lscratch7	90GB/s	5.7PB	80	80

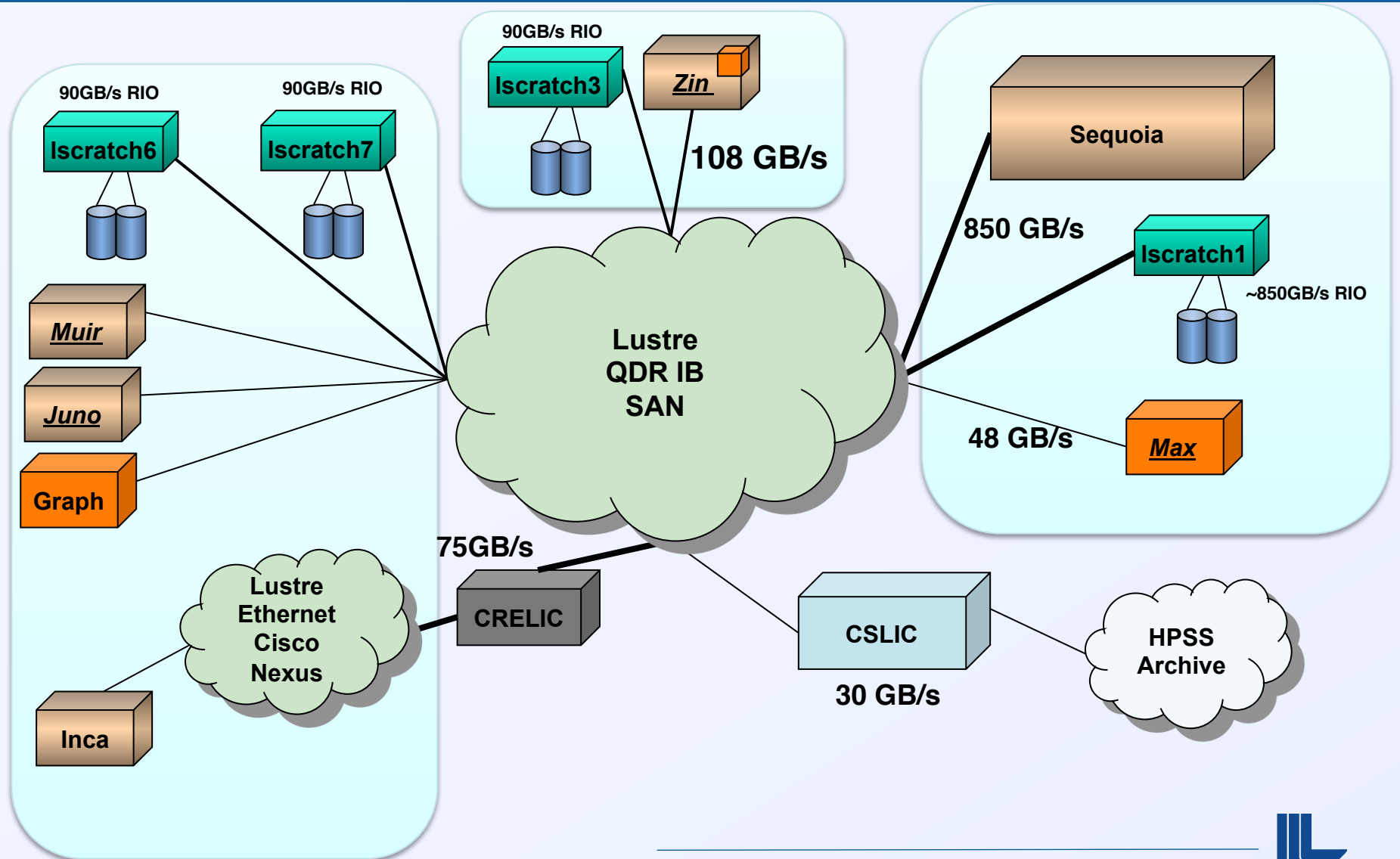
# File System Locality – January 2014



# File System Locality – February 2014



# File System Locality – November 2014





# Questions?



**Marc Stearman**  
[stearman2@llnl.gov](mailto:stearman2@llnl.gov)  
925.423.9670