

Lustre 2.3

Lustre 2.3 was released in October 2012. This is its support matrix.

Server Support	Client Support
RHEL 6.3, CentOS 6.3	RHEL 6.3, CentOS 6.3, RHEL 5.8, CentOS 5.8, SLES 11 SP1 2.6.38

As well as ongoing stability improvements, there are a number of new features in the Lustre 2.3 release.

Feature	Summary	JIRA	Notes
OFD	OFD is a obdfilter replacement using OSD API	LU-911	
SMP Scalability	Improve SMP performance of shared directory.	LU-56	
New IO Engine	New IO Engine will support new grant parameter, generate better IO RPC, and if a page has been set for writeback and the covering lock is being cancelled, the priority will be raised on the writeback page.	LU-1030	
Job Stats	Job Stats will collect filesystem operation stats for the jobs running on Lustre	LU-694	
CRC	Uses kernel APIs to set optimal hash and checksumming algorithms rather than using hardcoded values	LU-1339/ LU-1201	
FLOCK	3000 threads takes by 1 non-conflicting locks, after that these 3000 threads takes the lock its right neighbour thread has taken, so 3000-th lock gets deadlocked on the 1st one.	LU-1157	
DMU-OSD	Review the existing LLNL DMU OSD implementation and add support for Access Control Lists (ACLs), recovery, and the metadata overhead estimates required to implement 'grant'	LU-1305	
OI Scrub	This Phase I project will have LFSCK rebuild the OI file after MDT file-level backup/restore to make it workable as Lustre-1.6/1.8 series do.	LU-957	
Quota Accounting	In 2.3 we introduced space accounting support (per-user and group inode & block usage) with OFD. Also, added accounting support.	LU-1182	
Layout Lock	This will add a layout lock protecting the file layout which will allow re-striping a file, a layout generation number to follow re-striping, and a reference count number to lov_stripe_md which will improve object management and clarify their use.	LU-169	
2.6.38 /FC15 Client	This will have Fedora Jenkins Create Fedora Builders and Fedora Cobbler Installation.	LU-506	