

Lustre functionalities synthesis	priority 0 2011	priority 1 2012	priority 2	priority 3	Exascale	In Progress
Performance & scalability						
Performance non regression for Lustre 2.0	Lustre_P0_02					
Support of multirail with/by NRS (network request scheduler)	Lustre_P0_03					
SMP scaling and NUMIOA support	Lustre_P0_06					
Introduction of network request scheduler (NRS) =I/O ordering		Lustre_P1_05	Lustre_P2_01			
Small io aggregation		Lustre_P1_06				
Support of objects > 2TB		Lustre_P1_07				
Client sub-directory mount			Lustre_P2_05			
Lustre Meta data cluster			Lustre_P2_06			
Local ssd caching			Lustre_P2_12			
Metadata caching			Lustre_P2_08			
Caching proxies			Lustre_P2_09			
QOS and round robin				Lustre_P3_01		
Client optimization for Node with limited memory space				Lustre_P3_02		
Lustre Block device = Bypass file system and block device export in user space				Lustre_P3_03		
Support of differents pages size on client and serveurur				Lustre_P3_08		
Scaling to > many 100,000s clients / 1000s servers					X	
100K open file per client					X	
Single MDS performance improvements		Lustre_P1_11				Xyratex
Client metadata concurrency			Lustre_P2_13			
Size on MDS				Lustre_P3_14		
100B files/fs, 1B files/dir			Lustre_P2_14			
4MB RPCs			Lustre_P2_15			
Resilience & recovery						
High availability		Lustre_P1_01				
Data Integrity =>Btrfs LdiskFS for support >16TB		Lustre_P1_02				
Support of non blocking distributed transactions		Lustre_P1_04				
Imperative recovery		Lustre_P1_08				
Version based recovery for delayed Clients		Lustre_P1_09				
Error message improvements		Lustre_P1_10				
Network fault tolerance			Lustre_P2_07			
Low level cluster membership framework			Lustre_P2_10			
Scalable fsck				Lustre_P3_15		
End-to-end data integrity				Lustre_P3_16		
ILM						
HSM		Lustre_P1_03				CEA
Reorganizing or migration facility for OST space management...			Lustre_P2_03			
OST > 16TB OST space management		Lustre_P1_12				Xyratex
Distributed snapshot				Lustre_P3_09		
FS Replication				Lustre_P3_17		
Management and Portability						
RedHat 6 + lustre2.0	Lustre_P0_01					Bull
Save and restore of configs parameters of llog			Lustre_P2_11			
Enhanced OST pool support			Lustre_P2_02			
Lustre server without patch kernel				Lustre_P3_12		
Support of complex layouts				Lustre_P3_13		
Wide stripping			Lustre_P2_12			
Stripe allocation engine based on explicit rules				X		
Interoperability						
OST and client on same node with zero-copy I/O				Lustre_P3_05		
pNFS / Lustre bridge				Lustre_P3_06		
Support of mixed 32 and 64 bit IOCTLs				Lustre_P3_11		
Security						
Support SE linux for Lustre client	Lustre_P0_07					
Client side encryption fallocation				Lustre_P3_07		