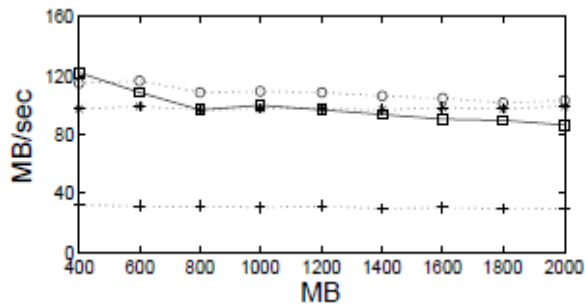
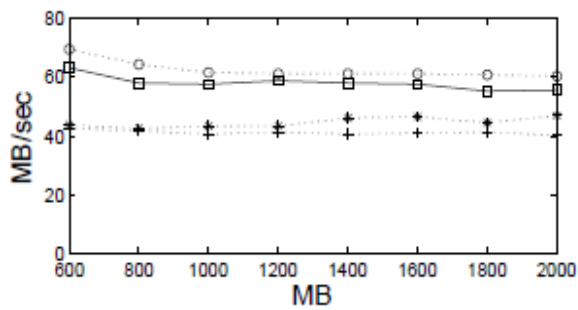


Ceph/Lustre Performance Diagrams

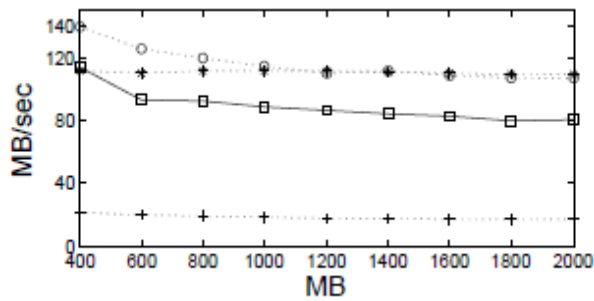
Figure: Input/Output Throughput - Asynchronous



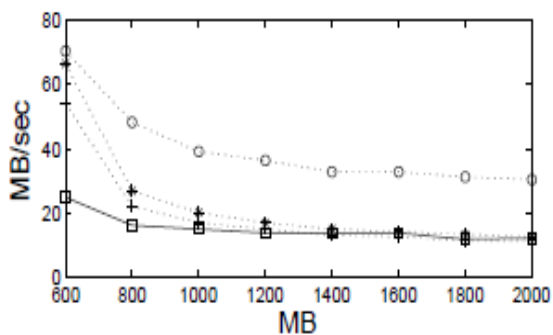
Asynchronous Sequential Write



Asynchronous Sequential Read



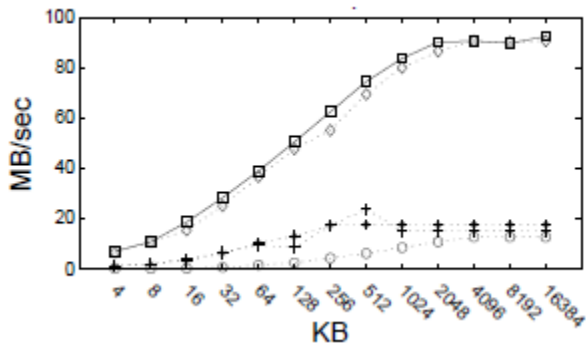
Asynchronous Random Write



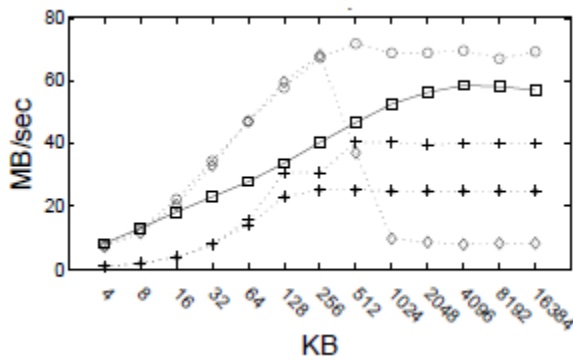
Asynchronous Random Read

Legend: ---+--- Tahoe ---x--- Lustre0
---o--- Ceph ---*--- Lustre256

Figure: Input/Output Throughput - Direct



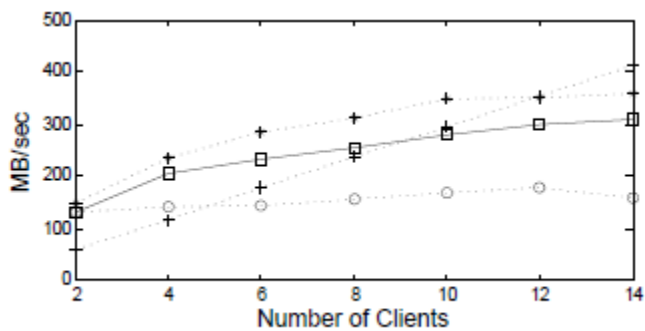
Direct Sequential Write



Direct Sequential Read

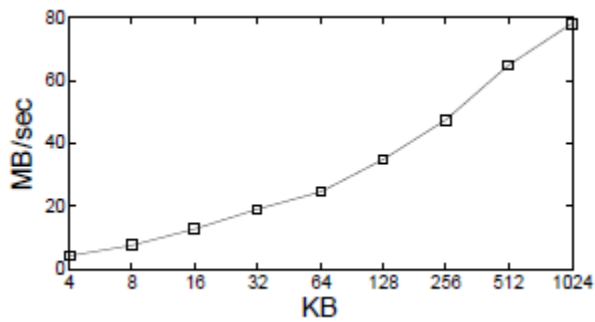
Legend: ---+--- Tahoe ---П--- Lustre0 ---▲--- PVFS
 ---o--- Ceph ---*--- Lustre256

Figure: Asynchronous Sequential Write - Multiple Clients

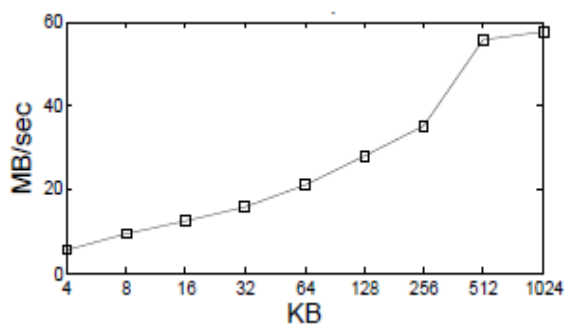


Legend: ---+--- Tahoe ---П--- Lustre0 ---▲--- PVFS
 ---o--- Ceph ---*--- Lustre256

Figure: Input/Output Throughput in an Expanded Deployment

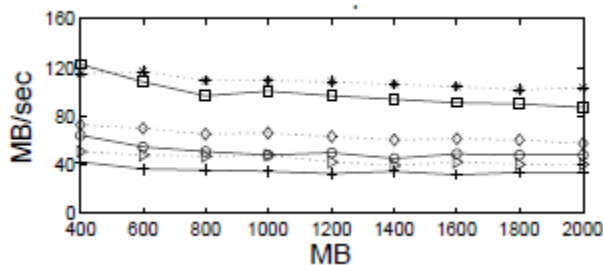


Direct Sequential Write

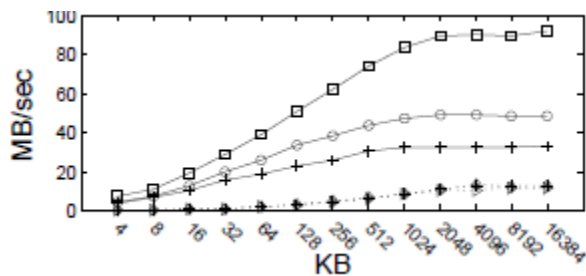


Direct Sequential Read

Figure: Input/Output Throughput for Select Replication Levels



Asynchronous Sequential Write



Direct Sequential Write

Legend : ---□--- Tahoe1 ---○--- Tahoe2 ---+--- Tahoe3 ---*--- Ceph1
 ---▲--- Ceph2 ---!>--- Ceph3