10Gb Network + HDD

HDFS Write Throughput (MB/s)

Column1	3-Replica	HDFS-RAID coder	New Java coder	ISA-L coder
1	270	32	212	477
5	612	302	720	729
10	466	602	727	727
20	416	723	722	719

Read Throughput (MB/s) -- no DataNode kil

Column1	3-Replica	6+3 Striping
1	96	503
5	293	479
10	385	502
20	470	520

HDFS Read Test Throughput(MB/s) -- 2 DataNodes killed

Column1	3-Replica	HDFS-RAID coder	New Java coder	ISA-L coder
1	96	97	240	393
5	294	340	417	434
10	311	419	434	440
20	368	434	443	446

10Gb Network + SSD

HDFS Write Throughput (MB/s)

Column1	3-Replica	HDFS-RAID coder	New Java coder	ISA-L coder
1	259	36	210	460
5	832	302	805	815
10	826	611	730	726
20	776	720	723	719

Read Throughput (MB/s) -- no DataNode kil

Column1	3-Replica	6+3 Striping
1	236	696
5	832	1052
10	1052	1061
20	1093	1072

HDFS Read Test Throughput(MB/s) -- 2 DataNodes killed

Column1	3-Replica	HDFS-RAID coder	New Java coder	ISA-L coder
1	237	107	206	578
5	751	429	764	1025
10	986	684	956	1049
20	1093	767	1014	1057

20Gb Network + HDD

HDFS Write Throughput (MB/s)

Column1	3-Replica	HDFS-RAID coder	New Java coder	ISA-L coder
1	252	40	207	461
5	627	296	877	1072
10	469	563	858	847
20	386	670	652	684

Read Throughput (MB/s) -- no DataNode kil

Column1	3-Replica	6+3 Striping
1	127	597
5	370	574
10	490	616
20	637	651

HDFS Read Test Throughput(MB/s) -- 2 DataNodes killed

Column1	3-Replica	HDFS-RAID coder	New Java coder	ISA-L coder
1	127	99	273	447
5	380	368	512	530
10	452	487	512	545
20	506	532	543	546

20Gb Network + SSD

HDFS Write Throughput (MB/s)

Column1	3-Replica	HDFS-RAID coder	New Java coder	ISA-L coder
1	262	33	210	476
5	879	303	880	1203
10	812	581	1090	1098
20	779	908	1101	1162

Read Throughput (MB/s) -- no DataNode kil

Column1	3-Replica	6+3 Striping
1	238	1062
5	809	1432
10	1191	1494
20	1496	1532

HDFS Read Test Throughput(MB/s) -- 2 DataNodes killed

Column1	3-Replica	HDFS-RAID coder	New Java coder	ISA-L coder
1	236	107	323	681
5	824	430	1020	1376
10	1134	769	1215	1427
20	1326	1038	1387	1474