IOZONE xfs CI results on hp-dl165g7-02.lab.eng.brq.redhat.com RHEL-7.0 3.17.1-306.el7.x86_64 vs RHEL-7.0 3.18.0-0.rc3.git0.2.el7.x86_64

Kernels and builds
- Baseline: RHEL-7.0 kernel: 3.17.1-306.el7.x86_64
- Set: RHEL-7.0 kernel: 3.18.0-0.rc3.git0.2.el7.x86_64

Disk type
- HDD 1TB SATA

FS type
- Baseline: xfs
- Set: xfs

Elapsed time
- Baseline: 24m29.735s | 24m34.479s | 24m33.518s
- Set: 24m40.697s | 24m40.331s | 24m42.517s

Test type
- incache

Total RAM as reported by OS
- Baseline: 16045 (MB)
- SET: 16043 (MB)

Machine
- hp-dl165g7-02.lab.eng.brq.redhat.com

Tuned profiles
- Baseline: throughput-performance
- Set: throughput-performance

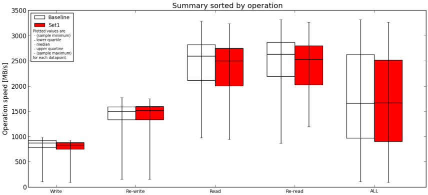
I/O scheduler on testing device
- Baseline: cfq
- Set: cfq

Test script, raw data and test logs
- Test Bash script
- Baseline Raw data folder
- Target/Set Raw data folder
- Baseline run.log
- Target/Set run.log

Baseline data set
- /home/mkocka/tmp/tmp/baseline/2014-Nov-18_17h42m_results/Run_1-throughput-performance-cfq-NOCRYPTO-NORAID_NOLVM/xfs/iozone_incache_default.iozone
- /home/mkocka/tmp/tmp/baseline/2014-Nov-18_17h42m_results/Run_2-throughput-performance-cfq-NOCRYPTO-NORAID_NOLVM/xfs/iozone_incache_default.iozone
- /home/mkocka/tmp/tmp/baseline/2014-Nov-18_17h42m_results/Run_3-throughput-performance-cfq-NOCRYPTO-NORAID_NOLVM/xfs/iozone_incache_default.iozone

Investigated data set
- /home/mkocka/tmp/tmp/3.18.0-0.rc3.git0.2.el7.x86_64/2014-Nov-19_15h50m_results/Run_1-throughput-performance-cfq-NOCRYPTO-NORAID_NOLVM/xfs/iozone_incache_default.iozone
- /home/mkocka/tmp/tmp/3.18.0-0.rc3.git0.2.el7.x86_64/2014-Nov-19_15h50m_results/Run_2-throughput-performance-cfq-NOCRYPTO-NORAID_NOLVM/xfs/iozone_incache_default.iozone
- /home/mkocka/tmp/tmp/3.18.0-0.rc3.git0.2.el7.x86_64/2014-Nov-19_15h50m_results/Run_3-throughput-performance-cfq-NOCRYPTO-NORAID_NOLVM/xfs/iozone_incache_default.iozone

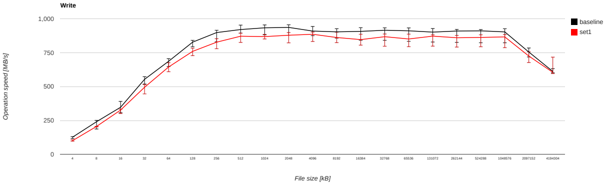
Overall summary



	Operation	Write	Re-write	Read	Re-read	ALL
baeline	**first quartile**	790.35	1335.03	2114.76	2194.71	967.41
	median	878.64	1502.54	2595.05	2634.53	1664.11
	third quartile	927.14	1588.81	2824.58	2862.49	2622.8
	minimum	105.83	156.33	974.91	866.75	105.83
	maximum	990.25	1772.89	3285.38	3318.51	3318.51
	mean val.	829.25	1432.29	2493.77	2524.04	1819.84
	standard dev.	152.48	247.77	438.13	447.75	799.83
	ci. min. 90%	817.89	1413.82	2461.12	2490.67	1790.08
	ci. max. 90%	840.62	1450.75	2526.42	2557.41	1849.6
	geom. mean	806.04	1396.12	2450.5	2479.07	1616.98
set1	**first quartile**	752.89	1334.44	2008.28	2028.91	907.75
	median	830.62	1515.75	2498.92	2531.68	1669.23
	third quartile	881.34	1598.8	2747.11	2800.3	2518.35
	minimum	92.67	156.33	944.28	1195.79	92.67
	maximum	930.23	1747.77	3237.41	3269.15	3269.15
	mean val.	786.01	1433.08	2415.45	2449.38	1770.98
	standard dev.	146.77	259.93	441.16	434.44	779.85
	ci. min. 90%	775.07	1413.71	2382.58	2417.01	1741.97
	ci. max. 90%	796.95	1452.46	2448.33	2481.76	1800.0
	geom. mean	762.78	1393.53	2370.1	2407.59	1569.33
linear regression slope 90%		0.93 - 0.96	0.98 - 1.02	0.93 - 1.0	0.93 - 1.01	0.94 - 1.0
ttest equality		DIFF	SAME	DIFF	DIFF	DIFF
baseline set1 difference		-5.21 %	0.06 %	-3.14 %	-2.96 %	-2.68 %
ttest p-value		0.0	0.9608	0.0055	0.0083	0.0532

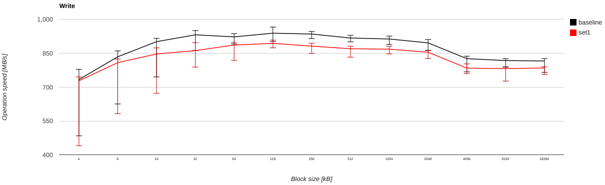
See raw data summary_sorted_by_operation_baseline.tsv and summary_sorted_by_operation_set1.tsv.

Write



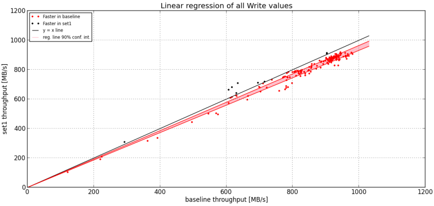
Write	File size [kB]	4	8	16	32	64	128	256	512	1024	2048	4096	8192	16384	32768	65536	131072	262144	524288	1048576	2097152	4194304
baseline	**first quartile**	116.03	186.48	306.52	518.49	647.6	793.73	830.35	894.19	881.84	878.54	875.65	857.93	842.42	841.81	834.43	828.88	826.39	823.18	823.09	718.73	601.33
	median	126.22	240.48	347.11	553.54	686.59	827.86	898.67	920.94	933.77	936.77	909.69	903.97	907.44	915.78	911.52	902.0	909.99	911.31	903.63	755.06	611.65
	third quartile	130.36	250.55	390.55	572.99	706.04	841.51	915.94	953.77	955.05	956.07	943.61	927.15	934.55	933.5	933.0	928.46	921.7	920.82	926.94	784.79	632.16
	mean val.	122.19	222.46	349.39	546.68	679.81	810.45	875.47	911.27	911.45	915.67	901.65	888.34	887.1	894.95	888.33	881.29	882.22	880.38	881.83	754.5	627.13
	standard dev.	14.76	44.99	62.01	38.37	50.75	59.76	70.99	63.51	61.86	59.72	57.06	56.68	56.16	49.0	56.38	54.38	57.01	53.87	51.97	41.84	55.31
	ci. min. 90%	97.31	185.44	310.95	526.79	656.73	785.95	848.75	889.05	891.14	897.15	884.82	872.38	871.94	878.86	869.82	863.44	863.5	862.7	864.77	740.77	608.98
	ci. max. 90%	147.06	259.47	387.82	566.58	702.89	834.95	902.18	933.49	931.75	934.2	918.48	904.3	902.26	911.03	906.84	899.15	900.93	898.07	898.89	768.24	645.29
	geom. mean	121.57	218.34	344.26	545.42	677.98	808.25	872.58	909.05	909.31	913.7	899.84	886.52	885.32	893.63	886.56	879.64	880.38	878.75	880.32	753.38	624.94
	minimum	105.83	162.37	248.42	480.46	562.78	675.8	722.75	766.84	763.32	781.51	773.58	772.43	766.03	800.64	754.74	749.55	740.11	767.63	788.62	687.53	551.53
	maximum	134.51	269.02	431.71	590.93	753.71	893.46	980.16	990.25	988.1	986.68	987.43	972.03	968.12	961.89	973.75	947.64	955.9	944.09	941.11	838.53	778.96
set1	**first quartile**	96.65	202.22	300.89	445.76	609.22	728.38	779.14	825.88	851.45	822.71	832.83	824.15	805.91	797.92	794.08	798.6	791.65	793.61	786.88	677.34	595.81
	median	100.63	205.69	326.37	494.97	644.4	759.68	827.73	871.71	868.78	878.96	886.14	862.15	846.64	868.15	851.29	872.27	860.38	862.7	866.61	725.33	605.02
	third quartile	106.12	206.34	333.0	514.42	675.98	783.65	853.33	894.38	885.0	898.73	902.16	901.96	886.48	888.06	887.19	881.84	877.68	882.08	884.17	756.71	717.31
	mean val.	101.63	198.44	319.17	485.21	639.05	750.52	817.32	853.25	858.32	855.33	860.75	852.4	838.48	847.67	834.24	847.3	843.68	846.74	844.96	696.51	639.1
	standard dev.	9.51	19.13	17.8	38.55	42.82	53.87	51.82	57.49	45.43	56.92	53.88	57.2	58.02	55.02	56.18	44.26	44.25	44.1	46.24	91.23	71.75
	ci. min. 90%	85.61	182.71	308.13	465.23	619.58	728.43	797.82	833.14	843.41	837.68	844.87	836.29	822.82	829.61	815.8	832.77	829.16	832.26	829.78	666.56	615.55
	ci. max. 90%	117.66	214.18	330.2	505.2	658.52	772.61	836.82	873.37	873.23	872.99	876.64	868.51	854.15	865.73	852.68	861.83	858.21	861.22	860.14	726.45	662.65
	geom. mean	101.34	197.59	318.72	483.8	637.67	748.64	815.72	851.29	857.1	853.43	859.05	850.46	836.48	845.88	832.36	846.16	842.54	845.61	843.72	690.07	635.38
	minimum	92.67	160.0	294.14	434.29	567.65	631.06	722.26	727.72	750.21	737.99	743.35	710.98	706.37	696.99	688.25	760.58	771.45	776.17	773.04	514.85	544.83
	maximum	111.6	211.67	339.91	537.61	686.59	839.12	892.55	915.46	925.93	930.23	929.8	921.78	921.08	913.08	913.01	897.78	895.1	900.69	899.61	825.04	783.09
ttest equality		SAME	SAME	SAME	DIFF	DIFF	DIFF	DIFF	DIFF	DIFF	DIFF	DIFF	DIFF	DIFF	DIFF	DIFF	DIFF	DIFF	DIFF	DIFF	DIFF	SAME
baseline set1 difference		-20.27 %	-14.47 %	-5.98 %	-10.58 %	-6.15 %	-8.24 %	-7.89 %	-5.35 %	-6.96 %	-6.17 %	-2.59 %	-4.63 %	-6.7 %	-5.2 %	-6.61 %	-3.3 %	-5.45 %	-5.33 %	-4.1 %	-3.94 %	-1.08 %
ttest p-value		0.1125	0.2567	0.1791	0.0007	0.0245	0.0033	0.0043	0.0018	0.0007	0.0002	0.0039	0.0092	0.0003	0.0016	0.0009	0.0149	0.0077	0.0152	0.0081	0.0041	0.4956

See raw data iwrite_fs_baseline.tsv and iwrite_fs_set1.tsv.

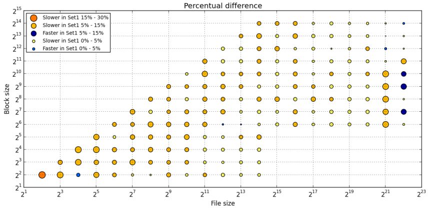


Write	Block size [kB]	4	8	16	32	64	128	256	512	1024	2048	4096	8192	16384
baseline	**first quartile**	484.03	625.27	745.14	861.96	891.22	901.36	915.14	900.26	888.32	862.94	767.63	789.48	765.17
	median	733.37	834.19	901.16	931.55	922.39	938.81	935.03	917.33	913.03	895.95	825.92	817.53	815.66
	third quartile	778.47	860.25	915.94	950.35	936.55	965.88	946.25	929.69	925.8	910.57	836.91	825.96	825.91
	mean val.	603.66	715.5	806.89	867.36	887.86	908.7	904.82	886.74	881.89	867.53	795.71	788.34	783.83
	standard dev.	235.77	216.56	173.68	127.78	91.57	91.95	91.81	84.46	90.89	77.4	74.55	72.28	71.3
	ci. min. 90%	540.01	654.52	755.68	827.72	866.37	886.43	881.82	864.81	857.35	845.74	773.73	765.92	760.42
	ci. max. 90%	667.32	776.49	858.1	907.0	909.35	930.97	927.81	908.68	906.43	889.33	817.69	810.76	807.23
	geom. mean	530.4	666.78	782.82	856.59	882.58	903.31	899.32	882.13	876.42	863.59	791.88	784.61	780.28
	minimum	105.83	169.95	333.0	548.86	611.65	601.47	602.52	609.83	601.25	601.42	574.26	551.53	579.97
	maximum	794.73	880.27	942.58	978.69	990.25	988.1	981.9	949.0	945.63	925.76	868.17	846.72	836.34
set1	**first quartile**	440.13	582.36	672.5	788.65	818.43	873.88	849.12	832.61	847.2	826.67	760.15	726.4	756.14
	median	727.72	808.37	846.64	861.57	886.19	893.79	881.34	869.95	868.06	854.43	783.96	781.76	784.75
	third quartile	745.08	824.22	873.88	896.66	898.64	908.02	894.38	881.23	880.88	861.44	802.93	787.64	789.96
	mean val.	576.33	673.42	753.0	809.89	840.41	863.41	848.67	841.2	835.69	825.04	767.57	752.8	757.82
	standard dev.	230.4	213.81	179.7	125.25	94.61	83.99	91.83	78.1	87.36	76.66	61.38	63.82	58.2
	ci. min. 90%	514.13	613.22	700.02	771.03	818.2	843.07	825.67	820.92	812.11	803.45	749.47	733.0	738.72
	ci. max. 90%	638.54	733.63	805.99	848.74	862.61	883.75	871.67	861.48	859.28	846.63	785.67	772.59	776.93
	geom. mean	500.98	624.53	724.91	798.44	834.35	858.63	842.74	836.9	830.29	820.97	764.88	749.81	755.37
	minimum	92.67	206.34	333.0	458.6	537.67	530.95	515.01	514.85	517.23	595.7	574.21	544.83	544.96
	maximum	762.34	856.16	894.52	912.16	916.8	930.23	922.96	905.37	898.72	886.94	826.28	801.37	797.15
ttest equality		SAME	SAME	SAME	DIFF	DIFF	DIFF	DIFF	DIFF	DIFF	DIFF	DIFF	DIFF	SAME
baseline set1 difference		-0.77 %	-3.1 %	-6.05 %	-7.51 %	-3.92 %	-4.79 %	-5.74 %	-5.16 %	-4.92 %	-4.63 %	-5.08 %	-4.38 %	-3.79 %
ttest p-value		0.6061	0.4095	0.22	0.0838	0.0115	0.0134	0.0047	0.0121	0.0249	0.0221	0.099	0.0481	0.1481

See raw data iwrite_bs_baseline.tsv and iwrite_bs_set1.tsv.

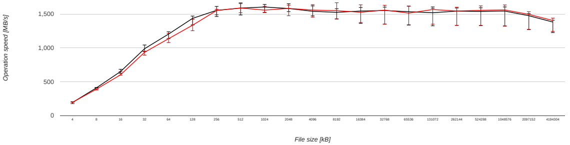


Regression line	
slope	0.94798
std. error	0.01005
ci. max 90%	0.93135
ci. min. 90%	0.96461



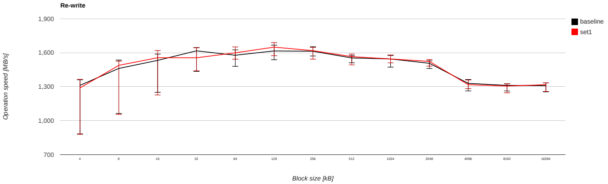
Back on top

Re-write



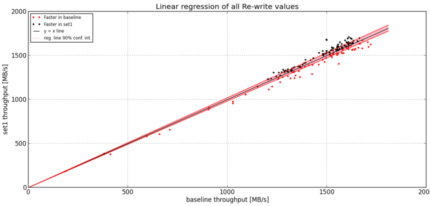
Re-write	File size [kB]	4	8	16	32	64	128	256	512	1024	2048	4096	8192	16384	32768	65536	131072	262144	524288	1048576	2097152	4194304
baseline	**first quartile**	174.76	410.6	625.31	942.81	1135.78	1338.24	1462.84	1485.19	1521.17	1533.98	1472.23	1428.04	1360.77	1350.36	1336.4	1325.06	1330.91	1327.91	1323.17	1270.16	1225.25
	median	193.19	410.6	650.12	987.17	1203.57	1435.42	1553.89	1587.18	1602.83	1581.05	1539.08	1523.84	1543.34	1550.99	1533.78	1518.48	1541.93	1537.23	1542.83	1474.06	1380.88
	third quartile	204.66	414.5	684.05	1041.86	1237.77	1469.39	1611.2	1654.65	1640.78	1651.94	1619.45	1577.54	1596.18	1601.49	1613.49	1586.67	1588.33	1590.84	1603.66	1504.37	1407.99
	mean val.	188.55	397.34	655.31	967.74	1189.23	1404.32	1520.93	1570.2	1570.84	1575.74	1539.04	1497.23	1499.1	1496.14	1485.52	1470.25	1477.25	1476.79	1486.45	1415.09	1335.05
	standard dev.	30.17	49.62	56.72	83.46	71.49	90.3	120.3	122.32	119.24	103.77	102.08	115.78	119.37	133.65	151.96	146.71	150.01	142.54	141.73	118.15	92.44
	ci. min. 90%	137.69	356.52	620.15	924.47	1156.72	1367.29	1475.65	1527.41	1531.7	1543.55	1508.94	1464.63	1466.87	1452.27	1435.64	1422.09	1428.01	1430.0	1439.93	1376.31	1304.7
	ci. max. 90%	239.41	438.16	690.46	1011.01	1221.74	1441.35	1566.2	1613.0	1609.98	1607.93	1569.14	1529.83	1531.32	1540.01	1535.4	1518.41	1526.49	1523.58	1532.97	1453.87	1365.39
	geom. mean	186.89	394.38	653.09	964.21	1187.17	1401.51	1516.16	1565.51	1566.36	1572.34	1535.72	1492.74	1494.38	1490.24	1477.74	1462.95	1469.51	1469.9	1479.71	1410.19	1331.88
	minimum	156.33	298.42	556.31	781.09	1045.21	1237.09	1219.55	1336.78	1349.6	1337.08	1337.81	1230.01	1311.16	1241.79	1141.12	1133.28	1113.34	1186.07	1239.46	1232.98	1183.71
	maximum	216.13	438.04	746.38	1041.86	1298.99	1524.95	1689.06	1742.1	1772.89	1739.36	1724.84	1688.12	1702.11	1683.68	1712.01	1655.18	1678.43	1665.39	1668.01	1552.22	1438.77
set1	**first quartile**	175.91	377.64	596.84	892.83	1077.79	1252.65	1487.75	1518.58	1525.31	1473.55	1453.48	1425.65	1373.56	1349.26	1341.88	1349.96	1332.38	1330.36	1321.1	1271.67	1242.63
	median	195.5	391.0	602.32	934.29	1135.78	1334.76	1551.59	1587.8	1557.6	1582.37	1557.66	1548.98	1525.24	1557.09	1512.96	1566.09	1543.48	1554.04	1560.53	1494.36	1404.53
	third quartile	195.5	391.0	650.12	951.29	1214.83	1421.58	1570.18	1666.01	1610.53	1630.9	1637.95	1666.0	1634.76	1628.67	1617.59	1606.74	1600.92	1619.34	1633.31	1533.34	1439.08
	mean val.	182.44	379.28	611.41	929.46	1130.08	1330.51	1519.61	1570.97	1560.79	1540.84	1547.96	1536.16	1499.6	1501.35	1466.6	1503.07	1492.68	1502.64	1499.13	1433.58	1362.0
	standard dev.	22.62	21.21	38.61	43.91	109.38	112.45	87.08	112.52	95.46	126.09	113.51	144.98	155.51	167.19	170.09	135.62	133.88	138.39	141.73	131.23	97.86
	ci. min. 90%	144.31	361.83	587.48	906.69	1080.34	1284.4	1486.83	1531.6	1529.46	1501.72	1514.49	1495.33	1457.62	1446.47	1410.77	1458.55	1448.74	1457.21	1452.61	1390.51	1329.88
	ci. max. 90%	220.57	396.73	635.34	952.22	1179.82	1376.61	1552.38	1610.33	1592.13	1579.95	1581.43	1576.98	1541.59	1556.22	1522.43	1547.58	1536.63	1548.06	1545.65	1476.66	1394.12
	geom. mean	181.46	378.76	610.3	928.51	1124.65	1325.87	1517.1	1566.92	1557.9	1535.56	1543.8	1529.13	1491.36	1491.83	1456.65	1496.98	1486.72	1496.32	1492.46	1427.56	1358.52
	minimum	156.33	338.49	538.04	863.42	832.72	1115.97	1288.48	1271.92	1343.98	1224.83	1297.46	1141.04	1091.91	1079.08	1058.85	1245.21	1273.31	1292.54	1290.59	1185.56	1215.91
	maximum	195.5	391.0	656.64	1009.75	1249.46	1473.52	1621.16	1723.49	1747.77	1716.58	1705.04	1734.99	1724.51	1723.48	1716.51	1675.74	1651.08	1673.69	1666.62	1580.42	1471.19
ttest equality		SAME	SAME	DIFF	SAME	DIFF	DIFF	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME
baseline set1 difference		1.19 %	-4.77 %	-7.35 %	-5.36 %	-5.63 %	-7.01 %	-0.15 %	0.04 %	-2.82 %	0.08 %	1.21 %	1.65 %	-1.17 %	0.39 %	-1.36 %	3.14 %	0.1 %	1.09 %	1.15 %	1.38 %	1.71 %
ttest p-value		0.7929	0.4314	0.073	0.1737	0.0905	0.037	0.9677	0.9822	0.7338	0.2465	0.7381	0.2122	0.9872	0.8999	0.6682	0.3973	0.6917	0.502	0.7437	0.5886	0.303

See raw data rewrite_fs_baseline.tsv and rewrite_fs_set1.tsv.



Re-write	Block size [kB]	4	8	16	32	64	128	256	512	1024	2048	4096	8192	16384
baseline	**first quartile**	882.26	1062.94	1249.46	1434.03	1479.07	1537.63	1570.69	1510.48	1472.01	1459.57	1261.81	1261.21	1253.49
	median	1311.16	1460.56	1531.69	1616.12	1577.17	1615.3	1612.45	1553.23	1544.14	1505.83	1328.74	1310.67	1308.51
	third quartile	1360.56	1534.48	1587.78	1644.52	1624.87	1666.34	1652.31	1573.02	1574.92	1527.96	1362.62	1324.05	1332.3
	mean val.	1070.94	1253.86	1399.79	1504.76	1546.95	1602.36	1597.72	1536.21	1528.24	1484.97	1310.97	1293.75	1288.36
	standard dev.	404.89	387.39	286.83	217.29	115.06	86.13	86.6	67.86	70.89	68.99	77.37	45.21	55.79
	ci. min. 90%	961.63	1144.78	1315.21	1437.35	1519.95	1581.5	1576.03	1518.59	1509.1	1465.55	1288.16	1279.73	1270.05
	ci. max. 90%	1180.24	1362.95	1484.36	1572.16	1573.96	1623.22	1619.41	1553.83	1547.38	1504.4	1333.79	1307.78	1306.67
	geom. mean	943.58	1166.26	1363.14	1487.45	1542.55	1600.06	1595.32	1534.7	1526.6	1483.36	1308.69	1292.97	1287.15
	minimum	156.33	298.42	684.05	1002.04	1249.46	1429.33	1349.6	1378.78	1372.77	1307.6	1113.34	1194.7	1133.28
	maximum	1424.88	1587.78	1654.29	1742.1	1742.1	1772.89	1724.35	1642.98	1643.22	1568.63	1457.64	1356.97	1348.28
set1	**first quartile**	878.12	1054.37	1226.08	1440.14	1542.2	1573.46	1542.46	1491.55	1510.25	1481.14	1282.3	1245.07	1256.75
	median	1288.48	1487.75	1555.29	1554.59	1598.8	1648.81	1617.62	1564.8	1544.35	1522.76	1316.9	1304.85	1317.28
	third quartile	1364.14	1525.0	1618.42	1643.56	1650.35	1688.79	1646.15	1587.24	1579.3	1539.89	1358.15	1324.88	1333.17
	mean val.	1064.01	1246.11	1397.52	1470.88	1559.78	1624.63	1593.35	1535.57	1529.27	1499.11	1317.47	1279.33	1295.76
	standard dev.	414.98	397.42	325.72	248.68	139.52	86.99	86.95	78.27	81.51	63.71	70.31	76.74	49.91
	ci. min. 90%	951.98	1134.2	1301.48	1393.74	1527.04	1603.56	1571.57	1515.24	1507.26	1481.17	1296.74	1255.53	1279.38
	ci. max. 90%	1176.04	1358.02	1493.57	1548.03	1592.52	1645.69	1615.13	1555.89	1551.27	1517.05	1338.2	1303.14	1312.15
	geom. mean	929.56	1155.94	1349.44	1446.47	1552.9	1622.26	1590.95	1533.57	1527.01	1497.73	1315.58	1276.97	1294.81
	minimum	156.33	373.19	650.12	832.72	1125.55	1421.58	1388.17	1354.99	1224.83	1288.61	1079.08	1058.85	1157.89
	maximum	1421.02	1587.67	1703.75	1723.49	1707.19	1747.77	1709.57	1648.77	1656.75	1571.08	1438.4	1379.77	1350.34
ttest equality		SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME
baseline set1 difference		-1.73 %	1.86 %	1.54 %	-3.81 %	1.37 %	2.07 %	0.32 %	0.74 %	0.01 %	1.12 %	-0.89 %	-0.44 %	0.67 %
ttest p-value		0.9408	0.9335	0.9762	0.5764	0.6137	0.2107	0.8118	0.9681	0.9528	0.3695	0.7223	0.3789	0.6094

See raw data rewrite_bs_baseline.tsv and rewrite_bs_set1.tsv.



Regression line	
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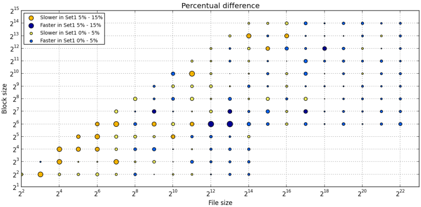
std. error	0.01154
ci. max 90%	0.98277
ci. min. 90%	1.02095



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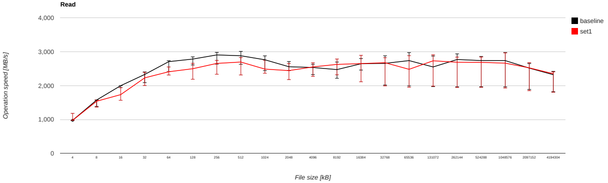
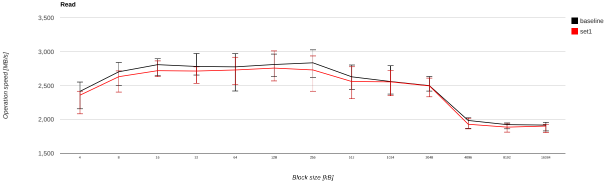


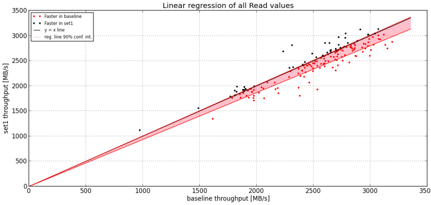
Read	File size [kB]	4	8	16	32	64	128	256	512	1024	2048	4096	8192	16384	32768	65536	131072	262144	524288	1048576	2097152	4194304
baseline	**first quartile**	974.91	1384.48	1938.61	2086.94	2412.55	2610.92	2635.9	2631.12	2441.04	2442.71	2324.42	2217.67	2459.62	2017.29	1991.3	1971.65	1964.17	1966.64	1963.93	1886.83	1819.42
	median	974.91	1574.95	1997.7	2329.52	2707.94	2784.26	2906.21	2881.67	2763.4	2557.66	2535.16	2473.22	2645.96	2657.37	2738.92	2551.01	2771.19	2739.78	2738.71	2517.27	2322.39
	third quartile	974.91	1574.95	1997.7	2402.69	2736.2	2848.54	2980.55	3009.83	2878.18	2710.55	2633.04	2696.15	2799.15	2879.65	2974.47	2873.93	2937.25	2860.6	2976.64	2650.95	2420.78
	mean val.	974.91	1552.77	2008.38	2275.71	2429.27	2710.91	2764.42	2788.21	2617.65	2541.81	2476.92	2460.27	2573.57	2526.22	2544.21	2495.39	2567.46	2523.87	2558.33	2368.97	2193.78
	standard dev.	0.0	230.9	155.38	251.03	531.79	277.43	342.43	343.85	361.39	239.05	224.14	298.06	353.25	442.85	522.95	500.73	524.29	476.12	487.78	390.71	296.42
	ci. min. 90%	974.91	1362.83	1912.06	2145.57	2187.43	2597.16	2635.55	2667.92	2499.03	2467.65	2410.83	2376.34	2478.21	2380.85	2372.55	2331.03	2395.37	2367.58	2398.22	2240.73	2096.48
	ci. max. 90%	974.91	1742.72	2104.69	2405.85	2671.11	2824.67	2893.3	2908.5	2736.28	2615.97	2543.01	2544.21	2668.94	2671.59	2715.87	2659.76	2739.56	2680.15	2718.44	2497.22	2291.07
	geom. mean	974.91	1539.1	2003.04	2262.27	2359.69	2695.7	2741.61	2765.31	2590.85	2530.13	2466.64	2441.67	2548.06	2486.88	2489.56	2445.5	2511.74	2477.57	2510.26	2335.83	2173.33
	minimum	974.91	1320.99	1733.5	1729.05	1226.08	1894.06	1866.44	1851.29	1675.17	1962.79	1911.98	1806.35	1927.98	1801.71	1629.45	1605.56	1574.38	1715.94	1794.82	1767.85	1761.57
	maximum	974.91	1949.81	2275.11	2631.67	2855.42	3051.63	3122.57	3227.35	3086.76	2840.89	2799.09	2901.68	3049.32	3139.1	3264.14	3261.73	3285.38	3255.92	3204.79	2897.69	2536.3
set1	**first quartile**	974.91	1366.42	1567.63	2003.25	2313.64	2188.58	2336.37	2315.23	2366.58	2178.0	2274.01	2318.82	2113.14	1991.77	1951.88	1984.46	1945.41	1949.6	1929.38	1850.05	1805.58
	median	974.91	1538.84	1733.5	2228.9	2409.29	2498.92	2655.93	2696.4	2488.01	2443.77	2552.52	2626.44	2650.34	2676.28	2481.11	2733.06	2690.09	2686.6	2663.57	2524.91	2350.87
	third quartile	1181.36	1574.95	1938.61	2391.58	2550.86	2660.62	2746.36	2828.07	2750.72	2653.11	2675.45	2785.13	2894.64	2822.52	2882.16	2910.12	2841.76	2844.51	2966.23	2678.2	2405.43
	mean val.	1112.54	1447.69	1752.4	2108.3	2360.91	2434.5	2513.73	2558.69	2482.47	2377.32	2442.79	2500.17	2519.17	2471.29	2413.98	2541.49	2521.52	2522.73	2523.22	2355.39	2184.37
	standard dev.	238.39	181.03	378.71	455.04	328.17	330.99	395.04	358.42	324.59	328.66	285.81	345.2	434.6	487.96	524.81	469.14	457.19	447.24	468.8	389.77	292.52
	ci. min. 90%	710.66	1298.77	1517.65	1872.4	2211.66	2298.78	2365.05	2433.3	2375.93	2275.37	2358.51	2402.96	2401.84	2311.12	2241.71	2387.5	2371.45	2375.93	2369.33	2227.45	2088.35
	ci. max. 90%	1514.42	1596.61	1987.14	2344.2	2510.15	2570.21	2662.41	2684.08	2589.02	2479.28	2527.07	2597.38	2636.5	2631.46	2586.24	2695.48	2671.59	2669.53	2677.1	2483.33	2280.39
	geom. mean	1096.69	1437.45	1714.28	2047.49	2337.02	2411.41	2479.11	2531.72	2459.51	2353.76	2425.41	2474.43	2478.58	2421.62	2357.32	2497.27	2478.78	2482.04	2478.54	2322.14	2164.27
	minimum	974.91	1137.55	1114.45	944.28	1650.72	1737.17	1563.16	1628.47	1669.17	1672.43	1833.01	1554.61	1518.03	1489.62	1456.23	1769.54	1844.84	1895.82	1859.6	1772.0	1749.84
	maximum	1387.8	1574.95	2275.11	2631.67	2855.42	2915.86	2972.11	3009.67	2865.34	2820.83	2850.94	2894.42	3019.41	3145.86	3237.41	3221.11	3181.35	3084.53	3111.88	2846.29	2471.23
ttest equality		SAME	SAME	DIFF	SAME	SAME	DIFF	DIFF	DIFF	SAME	DIFF	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME
baseline set1 difference		0.0 %	-2.29 %	-13.23 %	-4.32 %	-11.03 %	-10.25 %	-8.61 %	-6.43 %	-9.97 %	-4.45 %	0.68 %	6.2 %	0.17 %	0.71 %	-9.41 %	7.14 %	-2.93 %	-1.94 %	-2.74 %	0.3 %	1.23 %
ttest p-value		0.3739	0.4009	0.079	0.2765	0.675	0.0103	0.0338	0.0283	0.1542	0.0306	0.5912	0.6013	0.5459	0.6667	0.3653	0.7285	0.7329	0.9928	0.7885	0.8987	0.907

See raw data iread_fs_baseline.tsv and iread_fs_set1.tsv.



Read	Block size [kB]	4	8	16	32	64	128	256	512	1024	2048	4096	8192	16384
baseline	**first quartile**	2157.92	2500.13	2645.58	2656.44	2420.87	2631.76	2623.12	2444.88	2375.6	2419.54	1868.79	1862.55	1831.07
	median	2415.51	2704.81	2809.68	2783.35	2777.3	2812.05	2837.05	2630.3	2560.78	2500.23	1985.6	1924.19	1917.63
	third quartile	2553.14	2841.58	2896.89	2973.92	2972.48	2966.06	3028.36	2804.64	2794.41	2634.52	2024.54	1948.8	1957.61
	mean val.	2250.86	2577.01	2711.85	2771.83	2688.88	2783.48	2777.34	2583.88	2549.17	2493.98	1962.08	1902.94	1887.73
	standard dev.	488.74	412.3	364.44	299.0	400.87	295.38	333.67	271.04	281.12	199.92	155.5	69.4	94.97
	ci. min. 90%	2118.91	2460.91	2604.39	2679.08	2594.81	2711.95	2693.76	2513.49	2473.28	2437.69	1916.23	1881.41	1856.56
	ci. max. 90%	2382.8	2693.12	2819.31	2864.59	2782.95	2855.02	2860.92	2654.26	2625.07	2550.28	2007.93	1924.46	1918.9
	geom. mean	2179.06	2537.72	2683.44	2754.02	2652.65	2767.06	2756.32	2568.65	2532.64	2485.71	1955.95	1901.69	1885.33
	minimum	974.91	1320.99	1600.33	1729.05	1226.08	1894.06	1866.44	1851.29	1675.17	1962.79	1574.38	1761.57	1605.56
	maximum	2717.2	2980.55	3145.07	3227.35	3253.93	3285.38	3255.92	2903.42	2919.54	2785.53	2324.42	2018.17	2002.54
set1	**first quartile**	2083.75	2404.86	2631.67	2533.94	2512.92	2569.61	2417.47	2306.5	2351.12	2335.07	1861.91	1813.7	1807.09
	median	2359.2	2632.41	2721.01	2715.56	2731.36	2759.07	2731.74	2560.82	2555.88	2496.47	1929.75	1887.1	1903.05
	third quartile	2417.46	2717.37	2865.34	2777.75	2919.69	3012.78	2938.57	2778.52	2727.31	2611.24	2018.7	1932.87	1930.02
	mean val.	2151.26	2438.02	2622.03	2627.22	2673.93	2731.56	2629.99	2481.84	2466.0	2446.61	1937.05	1846.6	1870.38
	standard dev.	466.12	473.91	372.43	304.08	341.44	338.26	395.53	324.54	359.87	223.94	135.82	131.26	86.14
	ci. min. 90%	2025.43	2304.57	2512.21	2532.89	2593.8	2649.64	2530.92	2397.57	2368.84	2383.55	1897.01	1805.88	1842.1
	ci. max. 90%	2277.1	2571.47	2731.85	2721.55	2754.06	2813.48	2729.06	2566.12	2563.15	2509.67	1977.1	1887.32	1898.65
	geom. mean	2084.79	2377.1	2589.59	2607.24	2649.73	2708.9	2597.06	2459.07	2437.4	2435.92	1932.24	1841.67	1868.39
	minimum	944.28	1114.45	1400.17	1729.05	1650.72	1737.17	1563.16	1628.47	1669.17	1885.16	1489.62	1456.23	1606.02
	maximum	2552.49	2906.21	2958.71	3009.67	3216.34	3221.11	3237.41	2872.66	2916.64	2753.21	2274.01	1981.66	1973.75
ttest equality		SAME	SAME	SAME	DIFF	SAME	SAME	DIFF	SAME	SAME	SAME	SAME	DIFF	SAME
baseline set1 difference		-2.33 %	-2.68 %	-3.16 %	-2.44 %	-1.65 %	-1.88 %	-3.71 %	-2.64 %	-0.19 %	-0.15 %	-2.81 %	-1.93 %	-0.76 %
ttest p-value		0.36	0.1886	0.3258	0.0683	0.8397	0.4251	0.0594	0.1217	0.2589	0.347	0.4888	0.0421	0.485

See raw data iread_bs_baseline.tsv and iread_bs_set1.tsv.



Regression line	
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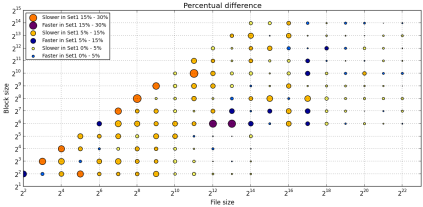
std. error	0.02148
ci. max 90%	0.93391
ci. min. 90%	1.00498



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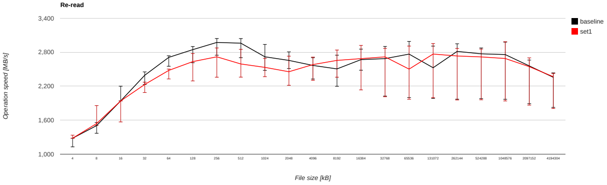
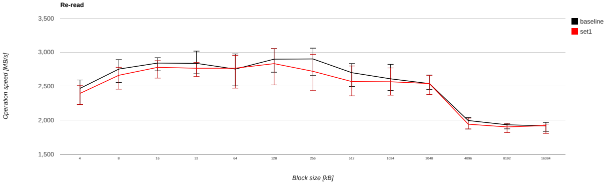
Re-read



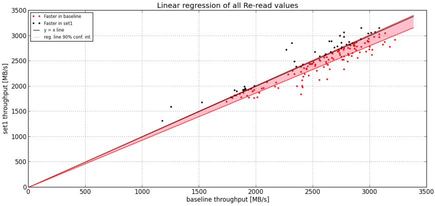
Re-read	File size [kB]	4	8	16	32	64	128	256	512	1024	2048	4096	8192	16384	32768	65536	131072	262144	524288	1048576	2097152	4194304
baseline	**first quartile**	1127.17	1366.42	1938.61	2228.9	2550.86	2614.48	2746.36	2703.19	2478.55	2512.17	2325.71	2197.51	2480.98	2023.9	1998.48	1983.28	1969.1	1979.66	1967.1	1889.42	1823.98
	median	1279.43	1502.73	1938.61	2391.58	2707.94	2844.69	2972.11	2959.09	2718.62	2654.42	2565.79	2504.29	2668.47	2685.92	2765.9	2524.86	2813.99	2770.86	2757.97	2557.3	2355.99
	third quartile	1279.43	1556.9	2198.77	2451.6	2736.2	2899.73	3041.06	3040.28	2937.59	2805.57	2702.6	2746.92	2853.86	2902.61	2990.48	2907.39	2948.19	2874.16	2977.96	2660.06	2434.37
	mean val.	1177.92	1390.52	1935.56	2350.19	2555.35	2710.66	2834.08	2833.05	2663.52	2605.57	2525.35	2496.6	2600.22	2543.57	2562.36	2507.4	2584.09	2540.94	2572.64	2384.86	2208.6
	standard dev.	175.82	272.9	327.1	229.39	417.11	304.44	311.8	356.91	366.61	255.06	242.85	314.15	363.93	451.11	528.17	508.55	531.15	479.66	492.2	397.2	300.6
	ci. min. 90%	881.52	1166.01	1732.81	2231.27	2365.66	2585.83	2716.73	2708.19	2543.19	2526.45	2453.74	2408.13	2501.97	2395.5	2388.99	2340.47	2409.74	2383.49	2411.08	2254.48	2109.93
	ci. max. 90%	1474.32	1615.02	2138.32	2469.11	2745.03	2835.49	2951.43	2957.91	2783.86	2684.7	2596.95	2585.06	2698.47	2691.65	2735.73	2674.32	2758.43	2698.39	2734.2	2515.24	2307.27
	geom. mean	1168.6	1363.06	1907.9	2339.35	2514.93	2692.56	2815.04	2807.76	2636.59	2592.57	2513.55	2476.17	2573.36	2502.99	2506.85	2456.29	2527.15	2494.1	2523.79	2350.7	2187.66
	minimum	974.91	866.75	1289.93	1825.37	1426.2	1921.84	1853.24	1838.31	1769.89	2008.38	1916.56	1805.87	1933.31	1802.21	1632.07	1608.75	1581.0	1721.26	1793.99	1772.23	1771.92
	maximum	1279.43	1574.95	2275.11	2631.67	2985.5	3051.63	3198.77	3267.58	3204.68	2949.78	2926.02	2900.67	3103.04	3163.59	3291.84	3289.23	3318.51	3276.78	3223.77	2916.4	2554.13
set1	**first quartile**	1279.43	1502.73	1567.63	2086.94	2326.78	2291.95	2357.38	2358.85	2367.27	2214.47	2303.04	2357.54	2133.94	2012.84	1968.79	1995.71	1955.53	1959.14	1938.3	1864.3	1804.01
	median	1279.43	1538.84	1938.61	2228.9	2477.6	2633.37	2717.89	2591.58	2531.56	2454.21	2580.79	2654.68	2685.88	2717.13	2500.59	2766.85	2732.68	2716.12	2688.27	2544.07	2366.81
	third quartile	1333.62	1856.1	1938.61	2269.57	2501.24	2776.87	2874.34	2850.72	2691.7	2729.62	2712.21	2837.52	2920.6	2868.71	2907.85	2952.07	2867.29	2854.04	2985.04	2699.53	2425.14
	mean val.	1315.55	1633.5	1808.66	2162.5	2403.53	2503.38	2582.49	2586.24	2486.85	2430.62	2483.99	2534.76	2547.27	2493.63	2434.17	2566.16	2544.9	2545.32	2541.38	2371.32	2196.71
	standard dev.	62.57	259.0	326.44	216.6	341.16	328.65	369.6	346.39	332.39	349.25	301.09	356.48	444.37	496.46	534.04	478.89	463.33	456.18	473.94	393.89	298.53
	ci. min. 90%	1210.07	1420.44	1606.32	2050.21	2248.38	2368.62	2443.38	2465.06	2377.74	2322.27	2395.21	2434.37	2427.3	2330.67	2258.88	2408.96	2392.82	2395.58	2385.81	2242.03	2098.72
	ci. max. 90%	1421.04	1846.57	2011.0	2274.79	2558.68	2638.13	2721.59	2707.42	2595.95	2538.96	2572.77	2635.14	2667.24	2656.59	2609.47	2723.35	2696.99	2695.07	2696.95	2500.62	2294.7
	geom. mean	1314.58	1616.78	1780.05	2152.0	2378.8	2480.64	2554.57	2562.29	2463.11	2404.78	2464.96	2507.68	2505.26	2442.56	2375.95	2520.44	2501.37	2503.23	2496.08	2337.58	2175.87
	minimum	1279.43	1320.99	1195.79	1729.05	1693.37	1760.5	1786.92	1825.51	1712.1	1730.04	1834.82	1568.05	1528.61	1492.19	1459.35	1776.57	1855.92	1897.41	1890.28	1772.13	1756.29
	maximum	1387.8	1949.81	2198.77	2436.02	2985.5	2776.87	3049.91	3084.93	2933.48	2870.05	2871.92	2956.39	3058.07	3174.29	3269.15	3248.8	3208.33	3109.42	3140.61	2870.87	2489.02
ttest equality		SAME	SAME	SAME	DIFF	SAME	DIFF	DIFF	DIFF	DIFF	DIFF	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME
baseline set1 difference		0.0 %	2.4 %	0.0 %	-6.8 %	-8.51 %	-7.43 %	-8.55 %	-12.42 %	-6.88 %	-7.54 %	0.58 %	6.01 %	0.65 %	1.16 %	-9.59 %	9.58 %	-2.89 %	-1.98 %	-2.53 %	-0.52 %	0.46 %
ttest p-value		0.2706	0.1447	0.4221	0.0513	0.2845	0.0579	0.0219	0.019	0.0692	0.0306	0.5413	0.6314	0.5665	0.7004	0.3793	0.6639	0.7738	0.9727	0.813	0.9005	0.8846

See raw data reread_fs_baseline.tsv and reread_fs_set1.tsv.

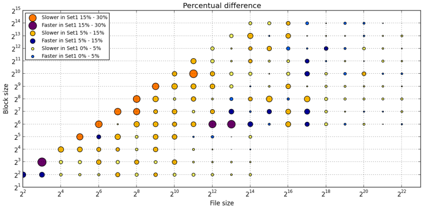


Re-read	Block size [kB]	4	8	16	32	64	128	256	512	1024	2048	4096	8192	16384
baseline	**first quartile**	2228.9	2554.86	2725.52	2682.04	2504.06	2705.14	2654.75	2493.86	2434.67	2452.38	1867.12	1871.19	1834.63
	median	2466.65	2751.54	2839.79	2835.52	2751.39	2897.53	2900.67	2698.32	2607.74	2537.69	1993.47	1931.14	1915.39
	third quartile	2590.75	2889.97	2918.69	3015.93	2974.37	3050.49	3059.34	2831.81	2821.06	2664.19	2036.14	1954.84	1966.75
	mean val.	2278.39	2591.59	2763.45	2791.52	2718.67	2843.31	2814.52	2624.67	2587.5	2522.36	1969.09	1909.67	1894.59
	standard dev.	479.48	498.71	325.78	366.24	325.85	291.01	351.45	272.86	271.82	200.18	156.99	71.26	96.56
	ci. min. 90%	2148.94	2451.15	2667.38	2677.91	2642.2	2772.83	2726.49	2553.82	2514.12	2465.99	1922.8	1887.57	1862.9
	ci. max. 90%	2407.84	2732.02	2859.51	2905.13	2795.14	2913.79	2902.55	2695.53	2660.89	2578.73	2015.38	1931.78	1926.28
	geom. mean	2214.3	2523.92	2741.12	2761.19	2698.2	2827.51	2790.76	2609.27	2572.43	2514.16	1962.88	1908.37	1892.12
	minimum	974.91	866.75	1567.63	1426.2	1785.65	1921.84	1853.24	1838.31	1769.89	2008.38	1581.0	1771.92	1608.75
	maximum	2746.36	3041.06	3267.58	3204.68	3275.16	3318.51	3276.78	2937.67	2951.32	2803.71	2325.71	2023.76	2013.36
set1	**first quartile**	2228.9	2456.09	2618.8	2640.65	2471.31	2517.86	2433.03	2356.74	2367.5	2376.03	1870.72	1817.15	1804.58
	median	2393.02	2660.17	2776.87	2763.88	2764.37	2831.54	2718.34	2567.45	2564.33	2538.63	1939.69	1899.33	1919.6
	third quartile	2506.69	2777.16	2874.34	2848.12	2951.45	3052.06	2968.73	2796.99	2767.9	2655.24	2028.91	1943.76	1941.37
	mean val.	2228.04	2516.0	2655.01	2669.51	2694.26	2769.23	2664.61	2501.79	2496.14	2475.26	1948.03	1858.41	1880.32
	standard dev.	407.65	394.37	372.08	317.42	346.08	350.65	371.88	322.1	363.14	227.95	140.01	132.84	88.75
	ci. min. 90%	2117.99	2404.95	2545.3	2571.04	2613.04	2684.31	2571.47	2418.15	2398.1	2411.08	1906.75	1817.2	1851.19
	ci. max. 90%	2338.1	2627.05	2764.72	2767.98	2775.47	2854.15	2757.76	2585.43	2594.18	2539.45	1989.32	1899.62	1909.45
	geom. mean	2182.46	2478.77	2624.07	2648.27	2670.01	2744.76	2637.23	2479.93	2467.55	2464.33	1942.96	1853.39	1878.23
	minimum	1195.79	1320.99	1567.63	1729.05	1693.37	1760.5	1786.92	1825.51	1712.1	1872.54	1492.19	1459.35	1620.87
	maximum	2577.58	2942.11	3084.93	3049.91	3248.8	3246.66	3269.15	2898.75	2963.85	2803.33	2303.04	2000.48	1981.14
ttest equality		SAME	SAME	SAME	SAME	SAME	SAME	DIFF	DIFF	SAME	SAME	SAME	DIFF	SAME
baseline set1 difference		-2.99 %	-3.32 %	-2.22 %	-2.53 %	0.47 %	-2.28 %	-6.29 %	-4.85 %	-1.66 %	0.04 %	-2.7 %	-1.65 %	0.22 %
ttest p-value		0.6188	0.478	0.2124	0.1732	0.7146	0.2629	0.0525	0.0628	0.2123	0.3548	0.5673	0.0676	0.5743

See raw data reread_bs_baseline.tsv and reread_bs_set1.tsv.



Regression line	
slope	0.97054
std. error	0.02188
ci. max 90%	0.93434
ci. min. 90%	1.00673



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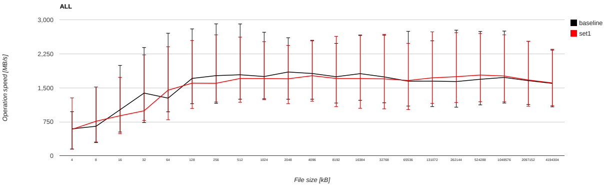

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baseline	**first quartile**	150.87	291.07	525.16	733.55	972.33	1151.19	1159.7	1250.15	1259.23	1249.48	1250.21	1165.52	1225.4	1171.82	1099.28	1086.87	1073.98	1125.58	1164.87	1134.37	1082.52
	median	595.52	652.39	1018.15	1385.46	1274.23	1709.51	1771.15	1790.2	1751.61	1851.08	1818.41	1746.99	1815.05	1742.69	1648.2	1649.55	1640.3	1690.67	1731.0	1660.04	1600.17
	third quartile	974.91	1520.78	1997.7	2391.58	2707.94	2802.98	2914.35	2912.49	2729.81	2607.74	2540.46	2483.43	2657.96	2664.5	2750.44	2540.93	2775.45	2746.58	2755.21	2530.51	2335.08
	mean val.	615.89	890.77	1237.16	1535.08	1713.41	1909.09	1998.72	2025.68	1940.87	1909.7	1860.74	1835.61	1890.0	1865.22	1870.11	1838.58	1877.75	1855.5	1874.81	1730.86	1591.14
	standard dev.	493.36	623.11	774.39	818.74	873.03	860.18	870.79	861.27	786.19	730.27	703.36	716.18	776.75	774.81	810.41	785.44	823.47	789.96	806.13	745.41	696.43
	ci. min. 90%	360.12	672.78	1019.09	1336.79	1525.07	1740.14	1840.68	1879.67	1815.35	1799.19	1759.32	1736.8	1787.09	1741.52	1740.72	1713.18	1746.28	1729.37	1746.11	1611.85	1479.95
	ci. max. 90%	871.66	1108.76	1455.22	1733.37	1901.76	2078.04	2156.77	2171.69	2066.39	2020.21	1962.15	1934.42	1992.91	1988.92	1999.49	1963.99	2009.23	1981.62	2003.52	1849.87	1702.33
	geom. mean	401.11	651.94	962.78	1291.62	1478.35	1693.34	1787.56	1823.21	1766.13	1752.09	1710.87	1681.84	1716.2	1696.81	1690.98	1667.42	1692.82	1680.83	1694.91	1554.12	1410.43
	minimum	105.83	162.37	248.42	480.46	562.78	675.8	722.75	766.84	763.32	781.51	773.58	772.43	766.03	800.64	754.74	749.55	740.11	767.63	788.62	687.53	551.53
	maximum	1279.43	1949.81	2275.11	2631.67	2985.5	3051.63	3198.77	3267.58	3204.68	2949.78	2926.02	2901.68	3103.04	3163.59	3291.84	3289.23	3318.51	3276.78	3223.77	2916.4	2554.13
set1	**first quartile**	145.15	306.79	488.5	781.97	796.19	1046.76	1189.5	1182.81	1239.47	1151.18	1205.55	1086.23	1049.21	1037.58	1022.39	1158.35	1178.76	1194.58	1192.84	1095.43	1107.7
	median	585.2	764.28	885.54	994.66	1450.09	1605.35	1602.58	1708.87	1707.92	1702.08	1769.02	1709.19	1707.83	1699.56	1664.52	1722.64	1747.96	1784.75	1763.11	1676.21	1610.52
	third quartile	1279.43	1520.78	1733.5	2228.9	2409.29	2547.49	2671.42	2622.09	2521.3	2439.81	2553.78	2639.79	2670.28	2683.69	2484.86	2737.91	2719.24	2700.28	2671.58	2527.91	2354.27
	mean val.	678.04	914.73	1122.91	1421.37	1633.39	1754.73	1858.29	1892.29	1847.11	1801.03	1833.87	1855.87	1851.13	1828.48	1787.25	1864.5	1850.7	1854.36	1852.17	1714.2	1595.54
	standard dev.	575.4	662.87	716.77	778.78	810.91	785.07	785.86	772.46	726.43	697.78	710.61	752.32	790.45	781.62	777.09	805.04	794.47	790.51	796.44	758.12	685.06
	ci. min. 90%	379.74	682.83	921.07	1232.76	1458.45	1600.53	1715.66	1761.33	1731.13	1695.43	1731.41	1752.08	1746.41	1703.69	1663.18	1735.97	1723.85	1728.15	1725.01	1593.16	1486.17
	ci. max. 90%	976.34	1146.63	1324.75	1609.98	1808.33	1908.92	2000.91	2023.24	1963.09	1906.62	1936.33	1959.67	1955.85	1953.28	1911.32	1993.03	1977.54	1980.57	1979.33	1835.24	1704.92
	geom. mean	403.51	645.79	877.74	1186.12	1413.05	1561.0	1673.18	1715.11	1686.46	1650.32	1678.04	1685.43	1668.3	1652.89	1614.29	1680.36	1669.4	1674.46	1670.66	1520.67	1419.91
	minimum	92.67	160.0	294.14	434.29	567.65	631.06	722.26	727.72	750.21	737.99	743.35	710.98	706.37	696.99	688.25	760.58	771.45	776.17	773.04	514.85	544.83
	maximum	1387.8	1949.81	2275.11	2631.67	2985.5	2915.86	3049.91	3084.93	2933.48	2870.05	2871.92	2956.39	3058.07	3174.29	3269.15	3248.8	3208.33	3109.42	3140.61	2870.87	2489.02
ttest equality		SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME
baseline set1 difference		-1.73 %	17.15 %	-13.02 %	-28.21 %	13.8 %	-6.09 %	-9.52 %	-4.54 %	-2.49 %	-8.05 %	-2.72 %	-2.16 %	-5.91 %	-2.48 %	0.99 %	4.43 %	6.56 %	5.57 %	1.85 %	0.97 %	0.65 %
ttest p-value		0.779	0.8979	0.518	0.4874	0.6039	0.2626	0.2741	0.26	0.3637	0.2397	0.7578	0.8151	0.6617	0.729	0.444	0.811	0.8061	0.9916	0.8357	0.8708	0.9627

See raw data ALL_fs_baseline.tsv and ALL_fs_set1.tsv.

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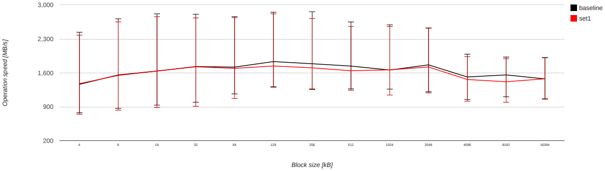
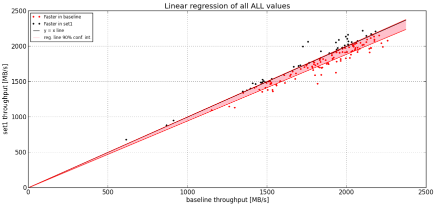
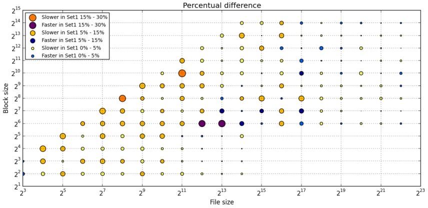


ALL	Block size [kB]	4	8	16	32	64	128	256	512	1024	2048	4096	8192	16384
baseline	**first quartile**	778.71	868.95	936.24	996.2	1167.13	1319.03	1257.68	1271.33	1265.98	1212.14	1052.05	1107.7	1059.04
	median	1364.17	1557.97	1638.23	1731.19	1719.78	1833.48	1788.79	1740.64	1659.19	1765.71	1516.01	1559.27	1476.92
	third quartile	2438.26	2714.68	2817.46	2809.16	2760.25	2851.45	2860.21	2650.76	2590.76	2526.0	1985.8	1926.82	1915.95
	mean val.	1550.96	1784.49	1920.49	1983.87	1960.59	2034.46	2023.6	1907.88	1886.7	1842.21	1509.46	1473.68	1463.63
	standard dev.	841.97	911.79	896.26	873.54	825.1	846.78	849.7	761.79	749.08	718.97	507.77	474.48	472.3
	ci. min. 90%	1439.41	1658.7	1791.26	1851.67	1865.13	1933.45	1918.88	1810.66	1787.46	1743.02	1436.25	1401.87	1388.22
	ci. max. 90%	1662.51	1910.29	2049.72	2116.06	2056.05	2135.47	2128.31	2005.09	1985.94	1941.4	1582.68	1545.48	1539.03
	geom. mean	1246.59	1493.91	1673.81	1764.29	1766.8	1833.79	1822.65	1735.58	1718.26	1682.09	1412.33	1385.2	1375.8
	minimum	105.83	169.95	333.0	548.86	611.65	601.47	602.52	609.83	601.25	601.42	574.26	551.53	579.97
	maximum	2746.36	3041.06	3267.58	3227.35	3275.16	3318.51	3276.78	2937.67	2951.32	2803.71	2325.71	2023.76	2013.36
set1	**first quartile**	747.08	831.41	888.2	911.79	1073.36	1298.74	1271.87	1242.58	1143.3	1188.19	1015.88	994.48	1067.71
	median	1378.55	1548.34	1639.3	1726.27	1693.37	1742.47	1704.12	1644.73	1662.96	1721.81	1464.01	1418.0	1478.18
	third quartile	2378.3	2651.21	2758.58	2732.99	2736.68	2817.31	2721.69	2559.2	2557.04	2523.35	1936.38	1892.14	1911.06
	mean val.	1504.91	1718.39	1856.89	1894.38	1942.09	1997.21	1934.15	1840.1	1831.78	1811.51	1492.53	1434.28	1451.07
	standard dev.	807.34	874.33	877.25	833.4	826.77	839.8	810.96	736.4	743.31	713.74	503.57	471.45	472.61
	ci. min. 90%	1397.95	1597.76	1730.41	1768.26	1846.44	1897.03	1834.21	1746.13	1733.3	1713.03	1419.93	1362.94	1375.62
	ci. max. 90%	1611.88	1839.01	1983.38	2020.5	2037.74	2097.38	2034.1	1934.07	1930.25	1909.98	1565.14	1505.63	1526.53
	geom. mean	1206.5	1436.13	1605.68	1680.45	1740.0	1793.93	1740.79	1672.62	1661.75	1648.28	1394.15	1344.55	1361.12
	minimum	92.67	206.34	333.0	458.6	537.67	530.95	515.01	514.85	517.23	595.7	574.21	544.83	544.96
	maximum	2577.58	2942.11	3084.93	3049.91	3248.8	3246.66	3269.15	2898.75	2963.85	2803.33	2303.04	2000.48	1981.14
ttest equality		SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME
baseline set1 difference		1.05 %	-0.62 %	0.07 %	-0.28 %	-1.54 %	-4.96 %	-4.73 %	-5.51 %	0.23 %	-2.49 %	-3.43 %	-9.06 %	0.09 %
ttest p-value		0.6223	0.5306	0.5606	0.4176	0.8212	0.6654	0.3076	0.4076	0.5161	0.7163	0.7858	0.5195	0.8454

See raw data ALL_bs_baseline.tsv and ALL_bs_set1.tsv.



Regression line	
slope	0.97361
std. error	0.01775
ci. max 90%	0.94425
ci. min. 90%	1.00297



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Plotted values are median with first and third quartile errorbars.
mean => Arithmetic mean
standar dev. => Sample standard deviation
ci. max 90%, ci.min => confidence interval at confidence level 90% => it means that mean value of the distribution lies with 90% propability in interval ci_min-ci_max
geom. mean => Geometric mean
median => Second quartile = cuts data set in half = 50th percentile
first quartile => cuts off lowest 25% of data = 25th percentile
third quartile => cuts off highest 25% of data, or lowest 75% = 75th percentile
minimum => Lowest value of data set
maximum => Hightest value of data set
baseline set1 difference => Difference of medians of both sets in percennt.
ttest p-value => Student's t-test p-value = probability the both data sets are equal
ttest equality => If p-value is higher than 0.1, data sets are considered being equal with 90% probability. Otherwise the data sets are considered being different.
Linear regression of all results regression line is in y = ax form, b coeficient is zero.

for details about operations performed see Iozone documentation

Baseline run.log

```
rsync: connection unexpectedly closed (0 bytes received so far) [sender]
rsync error: unexplained error (code 255) at io.c(605) [sender=3.0.9]

Test                                    = /performance/iozone_devel_with_library_CI/certification
Date                                    = Tue Nov 18 17:50:44 CET 2014

Hostname                                = hp-dl165g7-02.lab.eng.brq.redhat.com
Arch                                    = x86_64
Distro                                  = RHEL-7.0
Kernel                                  = 3.17.1-306.el7.x86_64
SElinux mode                            = Permissive

CPU count : speeds MHz                  = 16 : 16 @ 2000.000
CPU model name                          = AMD Opteron(tm) Processor 6128 HE
CPU cache size                          = 512 KB
BIOS Information   Version : Date       = 037 : 03/23/2011
Total Memory                            = 16045 (MB)
NUMA is Enabled.  # of nodes            = 4 nodes (0-3)

Tuned profile                           = throughput-performance

RHTS information
  RHTS JOBID                            = 805105
  RHTS RECIPEID                         = 1676378
  RHTS RECIPETESTID                     = 26038976
```

```
FILESYSTEM configuration
  Filesystems to test (requested)         = xfs
  Filesystems to test (actual)            = xfs
  Mount point of filesystem under test    = /RHTSspareLUN1
  LUN for filesystem under test           = /dev/sda1
  readahead for LUN above                 = 4096 KB
  Speed test: hdparm -tT /dev/sda1
 Timing buffered disk reads => 111.52  MB/sec
 Timing cached reads => 2812.59  MB/sec
Free Diskspace on /RHTSspareLUN1          = 40GB
I/O scheduler on testing device           = cfq

IOZONE version                            = 3.327
  Page Size [smallest file to work on]    = 4 (KB)
  90% of Free disk space available        = 34270 (MB)
  Command line options                    = -r 3 --rsync --eatmem --swap --iozone_umount --iozone_rec_size --incache --outofcache -f xfs
  In Cache test maximum file size         = 4096 (MB)
  Out of Cache test minimum file size     = 1024 (MB)
```

Set run.log

```
rsync: connection unexpectedly closed (0 bytes received so far) [sender]
rsync error: unexplained error (code 255) at io.c(605) [sender=3.0.9]

Test                                      = /performance/iozone_devel_with_library_CI/certification
Date                                      = Wed Nov 19 15:59:36 CET 2014

Hostname                                  = hp-dl165g7-02.lab.eng.brq.redhat.com
Arch                                      = x86_64
Distro                                    = RHEL-7.0
Kernel                                    = 3.18.0-0.rc3.git0.2.el7.x86_64
SElinux mode                              = Permissive

CPU count : speeds MHz                    = 16 : 16 @ 2000.000
CPU model name                            = AMD Opteron(tm) Processor 6128 HE
CPU cache size                            = 512 KB
BIOS Information   Version : Date         = 037 : 03/23/2011
Total Memory                              = 16043 (MB)
NUMA is Enabled.  # of nodes              = 4 nodes (0-3)

Tuned profile                             = throughput-performance

RHTS information
  RHTS JOBID                              = 806318
  RHTS RECIPEID                           = 1678694
  RHTS RECIPETESTID                       = 26071638

FILESYSTEM configuration
  Filesystems to test (requested)         = xfs
  Filesystems to test (actual)            = xfs
  Mount point of filesystem under test    = /RHTSspareLUN1
  LUN for filesystem under test           = /dev/sda1
  readahead for LUN above                 = 4096 KB
  Speed test: hdparm -tT /dev/sda1
 Timing buffered disk reads => 111.67  MB/sec
 Timing cached reads => 2709.22  MB/sec
Free Diskspace on /RHTSspareLUN1          = 40GB
I/O scheduler on testing device           = cfq

IOZONE version                            = 3.327
  Page Size [smallest file to work on]    = 4 (KB)
  90% of Free disk space available        = 36817 (MB)
  Command line options                    = -r 3 --rsync --eatmem --swap --iozone_umount --iozone_rec_size --incache --outofcache -f xfs
  In Cache test maximum file size         = 4096 (MB)
  Out of Cache test minimum file size     = 1024 (MB)
```