IOZONE xfs incache results on rambo-02.eng.brq.redhat.com RHEL-7.0 3.17.1-306.el7.x86_64 vs RHEL-7.0 3.18.0-0.rc5.git0.1.el7

Kernels and builds
- » Baseline: RHEL-7.0 kernel: 3.17.1-306.el7.x86_64
- » Set: RHEL-7.0 kernel: 3.18.0-0.rc5.git0.1.el7.x86_64

Disk type
- » 350GB RealSSD P320h

FS type
- » Baseline: xfs
- » Set: xfs

Test type
- » incache

Total RAM as reported by OS
- » Baseline: 64271 (MB)
- » SET: 64271 (MB)

Machine
- » rambo-02.eng.brq.redhat.com

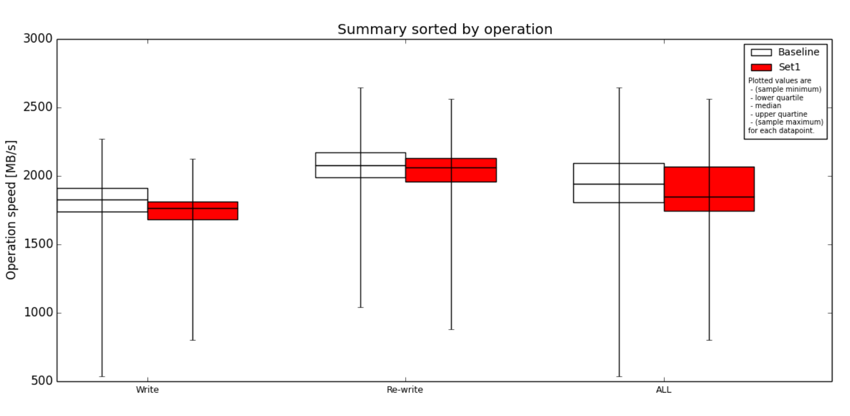
Tuned profiles
- » Baseline: throughput-performance
- » Set: throughput-performance

I/O scheduler on testing device
- » Baseline: none
- » Set: none
- » pci ssd card was used

Baseline data set
- » iozone_xfs_3.17.1-306.el7_rssda_write1.log
- » iozone_xfs_3.17.1-306.el7_rssda_write2.log
- » iozone_xfs_3.17.1-306.el7_rssda_write3.log

Investigated data set
- » iozone_xfs_3.18.0-0.rc5.git0.1.el7_rssda_write1.log
- » iozone_xfs_3.18.0-0.rc5.git0.1.el7_rssda_write2.log
- » iozone_xfs_3.18.0-0.rc5.git0.1.el7_rssda_write3.log

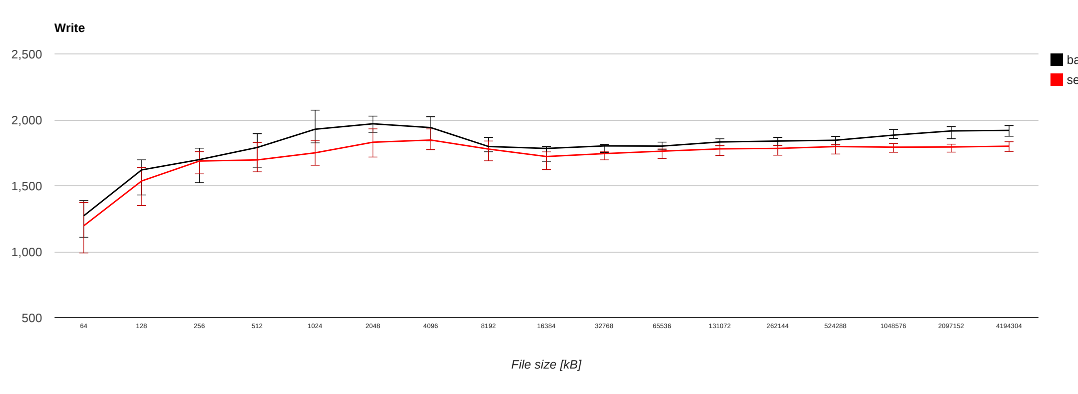
Overall summary



	Operation	Write	Re-write	ALL
baeline	**first quartile**	1738.98	1990.44	1806.4
	median	1828.71	2079.15	1942.83
	third quartile	1910.63	2170.92	2091.38
	minimum	538.5	1041.06	538.5
	maximum	2272.58	2646.57	2646.57
	mean val.	1800.71	2052.16	1926.44
	standard dev.	194.77	205.17	236.21
	ci. min. 90%	1785.73	2036.38	1913.6
	ci. max. 90%	1815.7	2067.95	1939.28
	geom. mean	1787.68	2040.41	1909.87
set1	**first quartile**	1684.64	1956.09	1745.46
	median	1764.86	2064.66	1847.65
	third quartile	1814.08	2132.52	2066.51
	minimum	799.69	880.25	799.69
	maximum	2127.14	2564.36	2564.36
	mean val.	1722.8	2027.58	1875.19
	standard dev.	176.72	200.72	242.83
	ci. min. 90%	1709.21	2012.14	1861.99
	ci. max. 90%	1736.4	2043.02	1888.39
	geom. mean	1712.03	2015.96	1857.79
linear regression slope 90%		0.92 - 0.99	0.95 - 1.03	0.95 - 1.0
ttest equality		DIFF	DIFF	DIFF
baseline set1 difference		-4.33 %	-1.2 %	-2.66 %
ttest p-value		0.0	0.0668	0.0

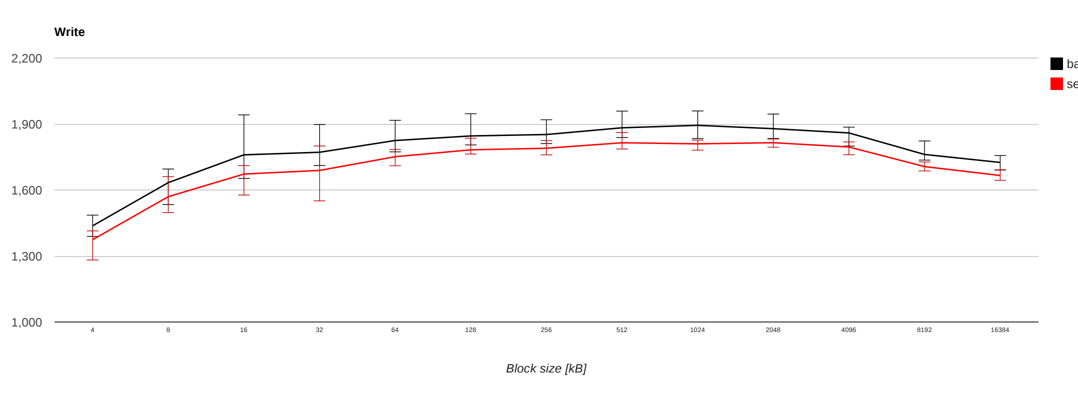
See raw data summary_sorted_by_operation_baseline.tsv and summary_sorted_by_operation_set1.tsv.

Write



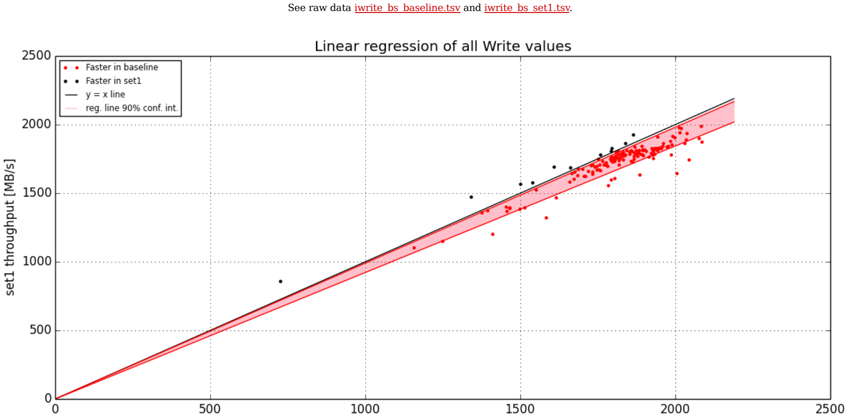
Write	File size [kB]	64	128	256	512	1024	2048	4096	8192	16384	32768	65536	131072	262144	524288	1048576	2097152	4194304
baseline	**first quartile**	1111.46	1431.6	1524.52	1642.51	1826.54	1907.45	1841.67	1759.02	1687.67	1753.76	1773.86	1805.35	1807.73	1810.84	1860.44	1858.32	1877.48
	median	1273.74	1621.65	1700.01	1792.0	1930.36	1971.6	1942.75	1799.19	1784.72	1803.84	1802.42	1833.76	1840.72	1846.97	1885.59	1917.44	1921.79
	third quartile	1388.43	1698.0	1786.92	1896.5	2075.08	2029.76	2025.3	1868.16	1798.67	1813.7	1832.66	1857.6	1867.85	1875.56	1928.91	1950.06	1957.72
	mean val.	1202.04	1557.72	1684.36	1791.56	1902.51	1939.85	1903.44	1782.49	1718.69	1785.41	1795.6	1815.85	1826.37	1837.55	1889.06	1897.83	1912.1
	standard dev.	281.76	194.69	171.77	206.89	212.72	174.49	182.01	126.86	121.17	37.8	39.74	57.77	57.74	79.27	59.51	71.31	58.04
	ci. min. 90%	1073.9	1477.89	1619.71	1719.17	1832.68	1885.72	1849.77	1746.77	1685.98	1773.01	1782.55	1796.89	1807.42	1811.53	1869.53	1874.42	1893.05
	ci. max. 90%	1330.18	1637.55	1749.0	1863.94	1972.33	1993.98	1957.11	1818.22	1751.41	1797.82	1808.64	1834.82	1845.33	1863.57	1908.6	1921.24	1931.15
	geom. mean	1161.99	1545.15	1676.15	1780.3	1890.14	1931.44	1894.18	1777.77	1714.18	1785.02	1795.17	1814.94	1825.48	1835.87	1888.15	1896.51	1911.24
	minimum	538.5	1085.92	1413.54	1412.41	1436.99	1493.48	1406.92	1437.34	1382.89	1703.69	1701.36	1669.1	1699.08	1657.47	1744.55	1733.78	1797.57
	maximum	1491.1	1840.86	2081.31	2272.58	2168.94	2143.34	2117.32	1928.21	1833.83	1830.55	1837.71	1864.26	1908.75	1978.64	1988.97	1989.6	1995.69
set1	**first quartile**	991.82	1352.04	1591.63	1607.14	1657.36	1719.4	1775.4	1690.8	1624.32	1697.85	1708.99	1730.74	1733.7	1742.33	1755.85	1756.93	1762.48
	median	1198.07	1537.58	1689.06	1697.68	1751.42	1831.86	1848.36	1779.77	1723.4	1745.49	1764.0	1781.34	1784.91	1798.71	1794.41	1795.58	1801.91
	third quartile	1375.24	1639.44	1759.93	1830.32	1846.65	1932.95	1932.46	1840.86	1758.33	1763.54	1780.45	1806.25	1806.46	1813.78	1821.88	1817.36	1835.33
	mean val.	1199.44	1477.46	1655.67	1699.45	1748.53	1801.46	1819.36	1738.73	1673.95	1728.54	1731.42	1766.03	1760.21	1775.09	1783.6	1786.06	1796.92
	standard dev.	245.05	221.37	166.88	173.06	205.21	190.6	171.66	132.96	114.69	49.91	99.97	49.0	63.57	56.38	42.65	43.69	50.9
	ci. min. 90%	1088.0	1386.69	1592.86	1638.91	1681.17	1742.33	1768.74	1701.28	1642.99	1712.16	1698.6	1749.95	1739.35	1756.58	1769.6	1771.72	1780.21
	ci. max. 90%	1310.88	1568.22	1718.48	1760.0	1815.89	1860.58	1869.98	1776.17	1704.91	1744.92	1764.23	1782.11	1781.08	1793.6	1797.6	1800.4	1813.63
	geom. mean	1174.87	1460.76	1647.34	1690.81	1736.5	1790.94	1810.75	1733.4	1669.84	1727.83	1728.23	1765.37	1759.08	1774.21	1783.1	1785.54	1796.22
	minimum	799.69	1104.22	1250.08	1354.92	1314.08	1358.52	1360.48	1378.36	1372.46	1604.0	1298.97	1665.08	1588.95	1634.38	1694.54	1686.13	1689.77
	maximum	1600.33	1784.47	2017.25	1960.31	2127.14	2049.1	2038.59	1892.12	1795.32	1785.91	1813.66	1820.09	1826.03	1842.37	1834.57	1851.3	1881.25
ttest equality		SAME	SAME	SAME	SAME	DIFF	DIFF	DIFF	SAME	DIFF	DIFF	DIFF	DIFF	DIFF	DIFF	DIFF	DIFF	DIFF
baseline set1 difference		-5.94 %	-5.18 %	-0.64 %	-5.26 %	-9.27 %	-7.09 %	-4.86 %	-1.08 %	-3.44 %	-3.23 %	-2.13 %	-2.86 %	-3.03 %	-2.61 %	-4.84 %	-6.36 %	-6.24 %
ttest p-value		0.9787	0.2561	0.5861	0.1012	0.0092	0.0048	0.058	0.1574	0.0981	0.0	0.0031	0.0012	0.0002	0.0016	0.0	0.0	0.0

See raw data iwrite_fs_baseline.tsv and iwrite_fs_set1.tsv.

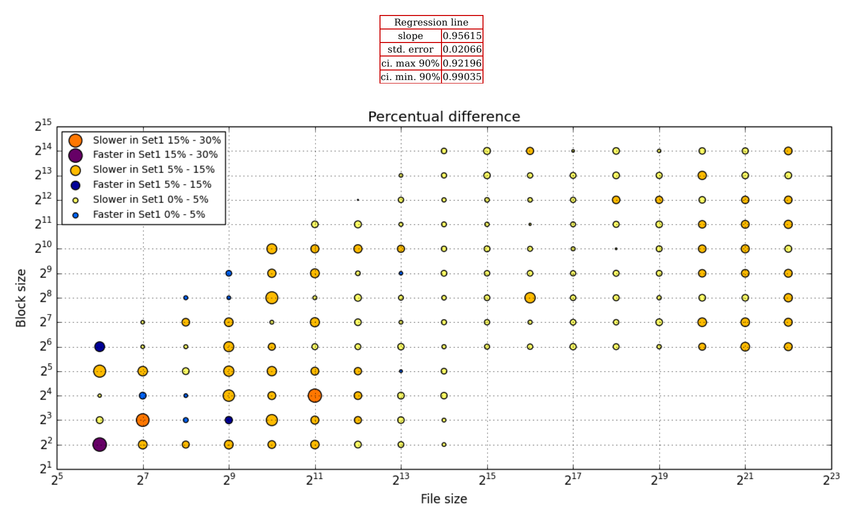


Write	Block size [kB]	4	8	16	32	64	128	256	512	1024	2048	4096	8192	16384
baseline	**first quartile**	1389.35	1533.95	1652.75	1711.33	1773.61	1805.1	1810.87	1838.58	1833.76	1834.4	1799.97	1735.75	1690.78
	median	1437.34	1633.54	1759.93	1771.54	1825.0	1845.73	1852.23	1882.85	1893.93	1878.81	1859.38	1761.63	1725.34
	third quartile	1485.68	1695.35	1941.69	1898.08	1916.84	1946.8	1919.39	1958.59	1959.51	1945.18	1885.59	1822.93	1756.76
	mean val.	1357.78	1610.73	1743.91	1759.43	1824.9	1890.55	1874.39	1903.82	1903.47	1892.64	1855.1	1776.41	1732.68
	standard dev.	252.02	207.56	226.19	197.3	171.78	121.27	103.46	90.24	87.41	77.86	68.45	57.61	52.41
	ci. min. 90%	1275.06	1542.6	1669.67	1694.66	1784.59	1861.18	1848.47	1880.39	1879.88	1870.72	1834.91	1758.54	1715.48
	ci. max. 90%	1440.5	1678.86	1818.16	1824.19	1865.22	1919.92	1900.3	1927.25	1927.07	1914.57	1875.28	1794.28	1749.89
	geom. mean	1325.26	1596.45	1728.97	1748.2	1816.39	1886.85	1871.61	1901.8	1901.56	1891.12	1853.88	1775.51	1731.93
	minimum	538.5	1041.06	1249.46	1331.99	1273.74	1619.14	1613.68	1777.3	1736.75	1754.44	1728.58	1688.46	1657.47
	maximum	1634.82	1980.4	2074.64	2092.12	2272.58	2182.7	2100.93	2155.56	2168.94	2138.96	1983.51	1877.37	1845.03
set1	**first quartile**	1282.08	1497.13	1577.2	1550.83	1710.25	1763.45	1759.93	1786.36	1781.12	1794.37	1760.38	1687.02	1644.11
	median	1374.34	1569.75	1672.63	1689.06	1751.46	1782.63	1789.88	1814.79	1809.88	1815.01	1795.47	1706.43	1665.98
	third quartile	1414.39	1660.51	1710.82	1800.11	1784.75	1835.28	1824.42	1861.39	1826.58	1831.95	1818.63	1727.77	1692.16
	mean val.	1303.14	1530.07	1641.75	1640.76	1759.37	1805.53	1795.94	1834.28	1812.1	1819.89	1788.1	1705.7	1667.57
	standard dev.	185.1	207.93	144.53	215.82	127.15	83.68	117.36	76.21	68.86	48.34	44.21	35.87	34.85
	ci. min. 90%	1242.38	1461.81	1594.3	1569.92	1729.53	1785.26	1766.55	1814.49	1793.51	1806.28	1775.07	1694.57	1656.13
	ci. max. 90%	1363.89	1598.32	1689.19	1711.6	1789.21	1825.79	1825.34	1854.07	1830.69	1833.5	1801.14	1716.83	1679.01
	geom. mean	1287.86	1514.52	1635.37	1624.91	1754.78	1803.67	1791.92	1832.79	1810.9	1819.28	1787.57	1705.33	1667.22
	minimum	799.69	993.7	1331.99	989.95	1331.99	1584.88	1298.97	1738.94	1667.18	1738.94	1670.76	1588.95	1604.0
	maximum	1498.38	1778.07	1881.53	1883.05	2057.24	2038.59	2049.1	2104.72	2127.14	1997.86	1851.3	1764.86	1720.81
ttest equality		SAME	SAME	DIFF	DIFF	DIFF	DIFF	DIFF	DIFF	DIFF	DIFF	DIFF	DIFF	DIFF
baseline set1 difference		-4.38 %	-3.91 %	-4.96 %	-4.66 %	-4.03 %	-3.42 %	-3.37 %	-3.61 %	-4.44 %	-3.4 %	-3.44 %	-3.13 %	-3.44 %
ttest p-value		0.368	0.1596	0.0533	0.0398	0.0309	0.0001	0.0011	0.0003	0.0	0.0	0.0	0.0	0.0

See raw data iwrite_bs_baseline.tsv and iwrite_bs_set1.tsv.

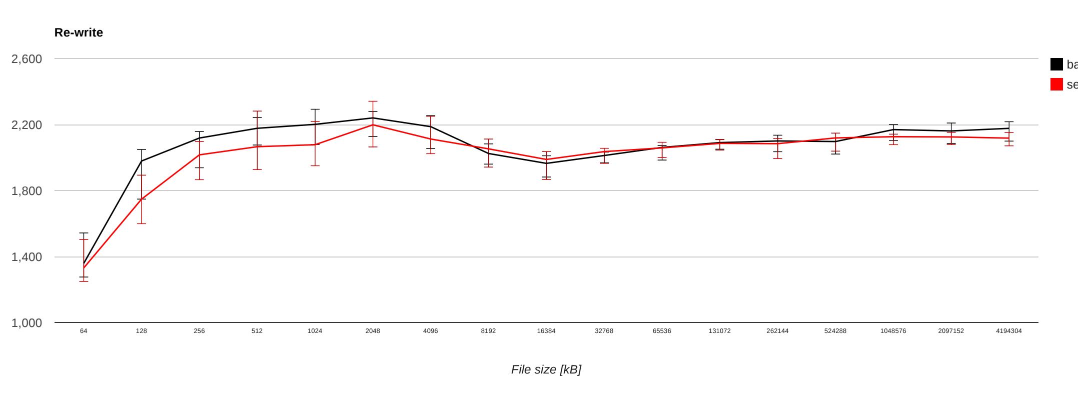


Regression line	
slope	0.95615
std. error	0.02066
ci. max 90%	0.92196
ci. min. 90%	0.99035



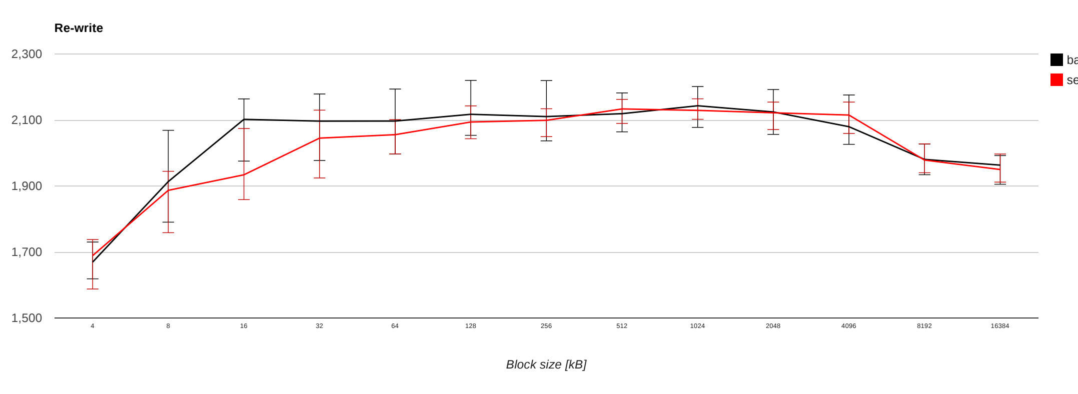
Back on top

Re-write



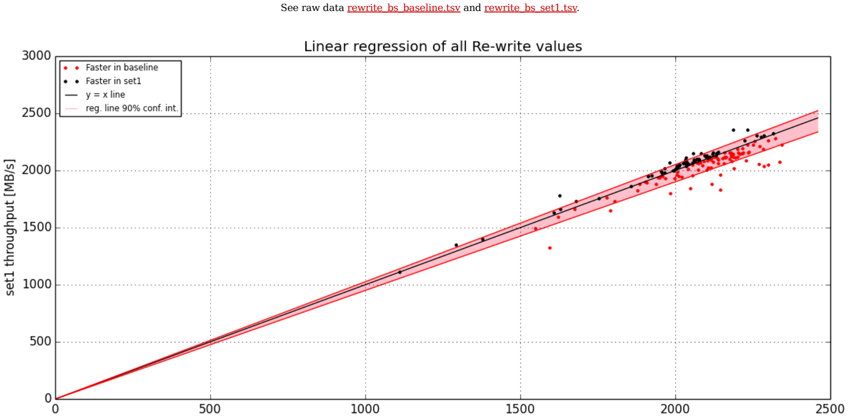
Re-write	File size [kB]	64	128	256	512	1024	2048	4096	8192	16384	32768	65536	131072	262144	524288	1048576	2097152	4194304
baseline	**first quartile**	1276.85	1749.0	1938.91	2076.84	2079.38	2128.06	2055.58	1961.04	1882.83	1968.93	1985.62	2051.47	2036.16	2022.04	2103.19	2086.17	2100.56
	median	1359.63	1979.9	2119.17	2178.18	2201.96	2241.02	2188.01	2025.28	1965.59	2013.23	2062.18	2091.5	2101.32	2097.88	2170.2	2162.0	2177.76
	third quartile	1544.0	2049.55	2158.43	2243.42	2293.51	2280.1	2254.76	2083.7	2011.55	2034.07	2073.48	2109.01	2136.22	2118.2	2200.62	2210.08	2217.81
	mean val.	1397.14	1882.43	2060.13	2144.84	2171.63	2193.13	2128.89	1997.5	1930.74	1999.95	2026.67	2062.97	2075.55	2075.47	2147.86	2139.96	2155.76
	standard dev.	207.08	256.17	232.4	203.85	234.75	171.49	181.29	123.07	118.88	43.49	70.61	74.98	98.93	66.47	73.98	95.21	78.88
	ci. min. 90%	1302.97	1777.39	1972.66	2073.53	2094.57	2139.94	2075.43	1962.84	1898.65	1985.68	2003.49	2038.36	2043.08	2053.66	2123.58	2108.7	2129.87
	ci. max. 90%	1491.31	1987.46	2147.6	2216.16	2248.68	2246.33	2182.35	2032.16	1962.84	2014.23	2049.85	2087.58	2108.03	2097.29	2172.14	2171.21	2181.65
	geom. mean	1382.52	1864.32	2046.63	2135.24	2158.88	2186.26	2120.77	1993.56	1926.95	1999.49	2025.45	2061.61	2073.21	2074.44	2146.61	2137.87	2154.35
	minimum	1041.06	1341.56	1468.99	1699.74	1636.61	1718.34	1656.22	1668.73	1609.49	1900.78	1828.52	1837.1	1833.68	1934.64	1978.9	1899.18	1990.95
	maximum	1738.29	2271.56	2497.76	2605.79	2646.57	2545.24	2362.72	2143.12	2115.88	2049.19	2127.74	2149.49	2219.87	2184.93	2252.92	2275.48	2272.13
set1	**first quartile**	1249.91	1599.8	1866.44	1927.88	1951.02	2065.21	2024.08	1943.15	1867.87	1965.74	2000.7	2046.17	1994.84	2039.74	2078.72	2079.07	2071.9
	median	1331.99	1748.84	2017.25	2066.55	2078.65	2199.25	2113.05	2053.43	1989.31	2036.91	2059.27	2086.63	2084.91	2119.73	2127.2	2125.78	2118.45
	third quartile	1504.24	1894.06	2097.97	2282.48	2220.05	2342.01	2251.13	2113.02	2037.32	2056.95	2093.4	2110.47	2115.61	2148.9	2142.49	2153.82	2151.71
	mean val.	1362.93	1751.62	1991.98	2099.32	2068.8	2165.23	2115.34	2007.98	1940.78	2012.87	2039.01	2063.87	2059.36	2091.72	2102.37	2107.35	2111.35
	standard dev.	227.55	177.61	149.68	212.2	208.97	211.64	174.31	143.65	135.03	63.06	70.88	63.85	72.13	71.68	61.11	56.6	54.33
	ci. min. 90%	1259.44	1678.79	1935.65	2025.09	2000.2	2099.57	2063.94	1967.53	1904.32	1992.17	2015.74	2042.91	2035.68	2068.19	2082.32	2088.77	2093.52
	ci. max. 90%	1466.41	1824.44	2048.31	2173.56	2137.39	2230.88	2166.74	2048.43	1977.23	2033.57	2062.28	2084.83	2083.04	2115.25	2122.43	2125.92	2129.19
	geom. mean	1344.24	1742.9	1986.52	2088.96	2058.04	2154.62	2108.06	2002.67	1935.89	2011.9	2037.79	2062.9	2058.12	2090.51	2101.5	2106.6	2110.68
	minimum	880.25	1421.58	1689.06	1706.66	1547.82	1716.58	1716.02	1640.74	1590.94	1873.53	1852.38	1932.22	1914.39	1934.29	1940.39	1986.15	2011.62
	maximum	1738.29	2018.0	2251.1	2564.36	2416.34	2475.39	2386.58	2185.13	2119.49	2100.01	2119.91	2132.02	2152.63	2170.97	2175.5	2176.4	2199.97
ttest equality		SAME	DIFF	SAME	SAME	DIFF	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	DIFF	SAME	DIFF
baseline set1 difference		-2.03 %	-11.67 %	-4.81 %	-5.12 %	-5.6 %	-1.86 %	-3.43 %	1.39 %	1.21 %	1.18 %	-0.14 %	-0.23 %	-0.78 %	1.04 %	-1.98 %	-1.68 %	-2.72 %
ttest p-value		0.67	0.084	0.2653	0.4524	0.0951	0.5769	0.7579	0.7405	0.7286	0.3849	0.5245	0.9621	0.4949	0.3919	0.0171	0.1321	0.0196

See raw data rewrite_fs_baseline.tsv and rewrite_fs_set1.tsv.

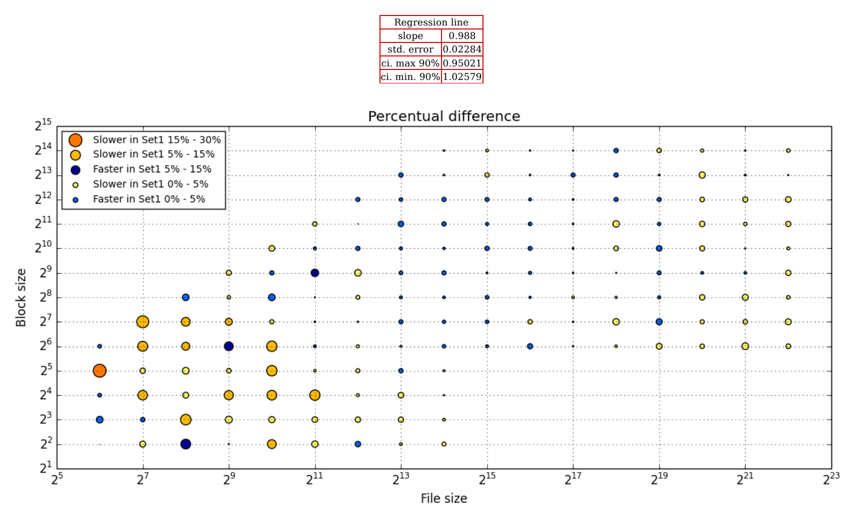


Re-write	Block size [kB]	4	8	16	32	64	128	256	512	1024	2048	4096	8192	16384
baseline	**first quartile**	1618.74	1790.36	1975.41	1977.32	1997.29	2053.58	2036.8	2064.15	2077.64	2056.45	2026.26	1934.12	1905.27
	median	1669.47	1913.37	2101.93	2096.52	2096.8	2117.24	2110.38	2119.18	2143.12	2124.37	2079.67	1980.6	1963.23
	third quartile	1730.22	2068.75	2163.91	2178.83	2193.77	2220.09	2219.48	2182.05	2201.42	2192.26	2175.8	2027.34	1992.08
	mean val.	1623.41	1873.2	2024.88	2053.79	2090.56	2152.78	2118.74	2143.35	2147.89	2125.7	2101.7	1987.03	1956.83
	standard dev.	220.09	278.68	282.63	218.99	186.24	133.3	115.64	105.08	82.71	84.98	96.15	82.12	61.66
	ci. min. 90%	1551.17	1781.72	1932.1	1981.91	2046.86	2120.5	2089.78	2116.07	2125.56	2101.77	2073.35	1961.55	1936.59
	ci. max. 90%	1695.66	1964.67	2117.65	2125.68	2134.27	2185.06	2147.71	2170.64	2170.22	2149.63	2130.05	2012.5	1977.07
	geom. mean	1606.73	1850.52	2003.33	2041.7	2082.11	2148.91	2115.61	2140.92	2146.35	2124.05	2099.58	1985.39	1955.89
	minimum	1041.06	1273.74	1325.26	1491.1	1525.82	1993.56	1808.04	2015.59	2021.48	1978.26	1933.0	1833.68	1828.52
	maximum	1984.24	2246.78	2545.24	2438.82	2646.57	2605.79	2325.39	2462.01	2306.52	2290.84	2275.48	2134.19	2085.57
set1	**first quartile**	1587.91	1758.51	1858.63	1924.36	1997.36	2043.19	2049.6	2089.63	2102.16	2071.03	2059.2	1940.19	1911.73
	median	1689.06	1886.86	1933.92	2045.05	2055.49	2093.89	2098.97	2133.49	2129.11	2121.81	2114.97	1978.51	1949.95
	third quartile	1737.63	1944.52	2074.18	2129.81	2101.05	2142.79	2134.09	2162.51	2164.24	2154.21	2154.27	2027.74	1996.84
	mean val.	1612.24	1815.52	1917.36	1970.19	2054.86	2104.21	2119.02	2149.74	2150.84	2115.47	2105.65	1985.37	1948.68
	standard dev.	213.27	207.37	236.32	267.87	174.01	139.51	102.48	97.11	87.42	62.25	51.89	49.71	50.87
	ci. min. 90%	1542.23	1747.45	1839.79	1882.26	2014.02	2070.42	2093.35	2124.53	2127.24	2097.94	2090.35	1969.95	1931.99
	ci. max. 90%	1682.24	1883.59	1994.94	2058.11	2095.69	2138.0	2144.68	2174.96	2174.44	2133.0	2120.96	2000.79	1965.38
	geom. mean	1595.36	1802.73	1901.74	1948.24	2047.24	2099.49	2116.71	2147.67	2149.17	2114.57	2105.03	1984.77	1948.04
	minimum	880.25	1273.74	1305.46	1079.64	1426.2	1584.88	2004.15	2028.01	1996.52	1942.62	2001.15	1920.45	1852.38
	maximum	1837.01	2112.04	2251.1	2272.58	2564.36	2435.85	2475.39	2416.34	2386.58	2244.86	2180.43	2077.41	2020.76
ttest equality		SAME	SAME	SAME	SAME	SAME	DIFF	SAME	SAME	SAME	SAME	SAME	SAME	SAME
baseline set1 difference		1.17 %	-1.39 %	-7.99 %	-2.45 %	-1.97 %	-1.1 %	-0.54 %	0.68 %	-0.65 %	-0.12 %	1.7 %	-0.11 %	-0.68 %
ttest p-value		0.8504	0.3923	0.1355	0.2149	0.3196	0.0844	0.9906	0.773	0.8788	0.5618	0.8358	0.9251	0.5988

See raw data rewrite_bs_baseline.tsv and rewrite_bs_set1.tsv.



Regression line	
slope	0.988
std. error	0.02284
ci. max 90%	0.95021
ci. min. 90%	1.02579



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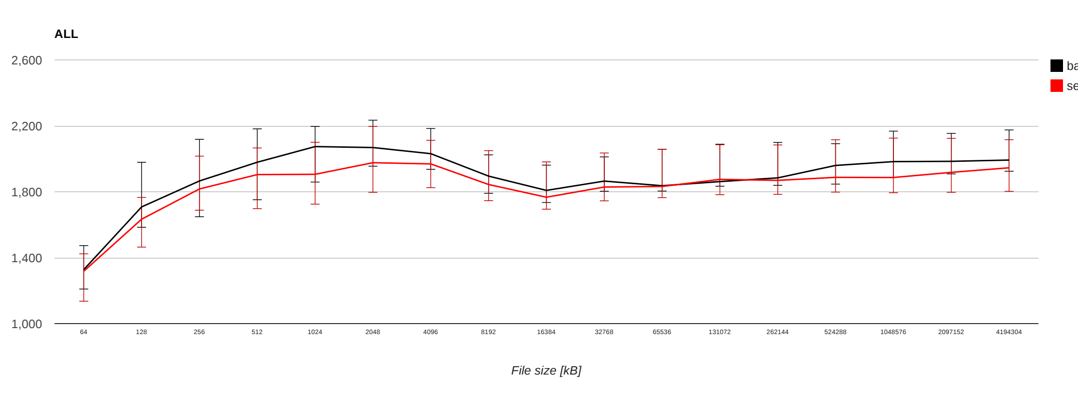
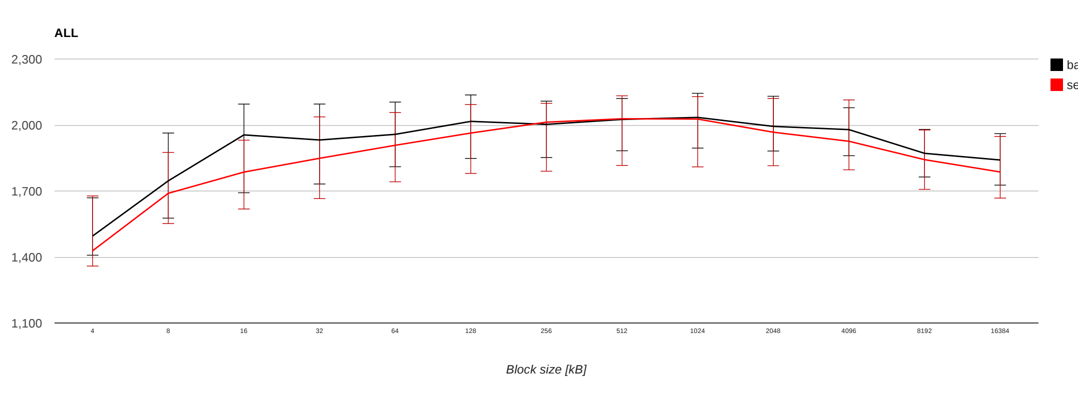


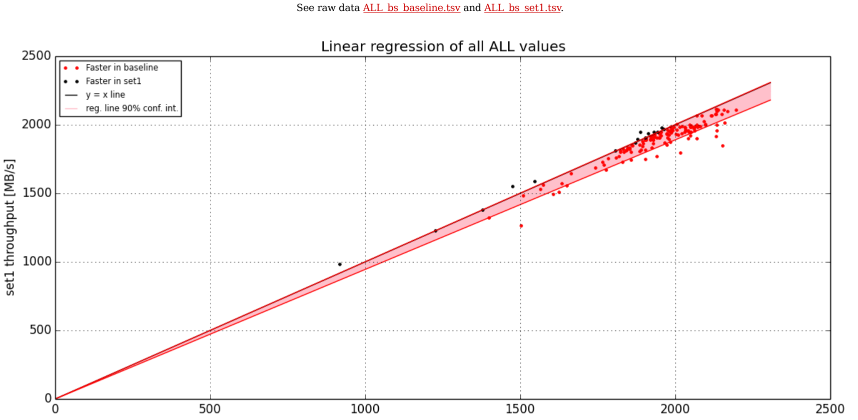
ALL	File size [kB]	64	128	256	512	1024	2048	4096	8192	16384	32768	65536	131072	262144	524288	1048576	2097152	4194304
baseline	**first quartile**	1210.92	1585.27	1649.52	1752.66	1859.96	1956.27	1936.92	1791.48	1735.75	1804.06	1805.38	1834.59	1839.76	1847.54	1888.39	1909.17	1925.57
	median	1328.63	1708.86	1866.44	1980.11	2075.08	2069.36	2032.07	1895.91	1809.26	1865.67	1837.58	1862.63	1885.16	1960.7	1983.93	1985.62	1993.32
	third quartile	1474.47	1979.9	2119.17	2182.7	2197.09	2235.48	2184.74	2024.79	1962.64	2012.24	2059.4	2089.71	2100.19	2092.79	2169.03	2154.76	2175.81
set1	**first quartile**	1136.84	1465.32	1689.06	1698.71	1726.06	1797.41	1826.08	1747.08	1695.35	1745.59	1765.41	1783.2	1785.07	1798.86	1795.34	1797.49	1803.43
	median	1318.73	1634.35	1817.92	1905.16	1906.88	1977.25	1970.01	1844.99	1767.87	1829.72	1833.02	1876.16	1870.21	1888.33	1887.48	1918.72	1946.44
	third quartile	1424.27	1766.5	2017.25	2066.55	2101.31	2197.38	2112.78	2050.54	1982.23	2036.2	2058.87	2086.23	2084.89	2116.78	2126.55	2124.71	2116.94
ttest equality		SAME	DIFF	SAME	SAME	DIFF	DIFF	SAME	SAME	SAME	SAME	SAME	SAME	SAME	SAME	DIFF	DIFF	DIFF

See raw data ALL_fs_baseline.tsv and ALL_fs_set1.tsv.

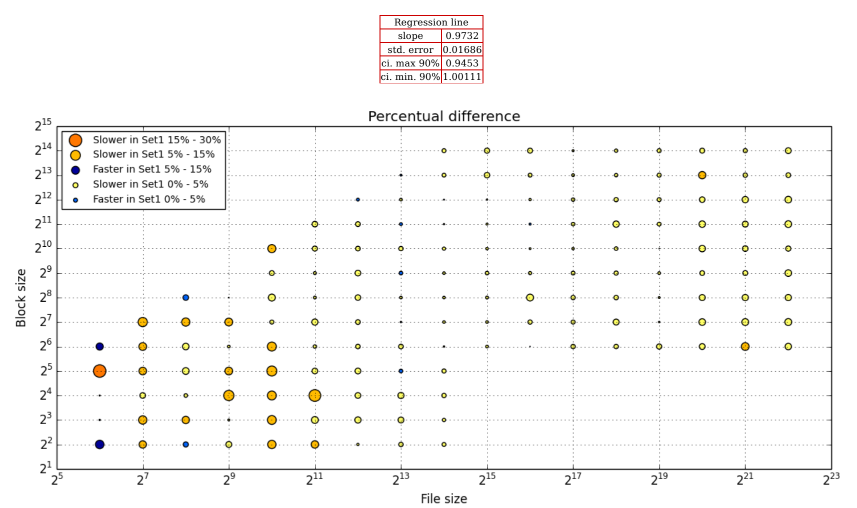


ALL	Block size [kB]	4	8	16	32	64	128	256	512	1024	2048	4096	8192	16384
baseline	**first quartile**	1408.29	1576.73	1692.25	1732.01	1810.45	1848.17	1852.23	1883.1	1895.07	1881.86	1860.6	1763.91	1726.75
	median	1495.75	1746.35	1955.15	1932.05	1957.65	2016.66	2003.12	2025.53	2034.68	1993.9	1979.21	1871.4	1841.07
	third quartile	1669.29	1963.65	2095.11	2095.42	2104.32	2136.79	2108.51	2120.59	2144.34	2130.86	2078.71	1980.19	1960.89
	mean val.	1490.6	1741.96	1884.4	1906.61	1957.73	2021.67	1996.57	2023.59	2025.68	2009.17	1978.4	1881.72	1844.76
	standard dev.	269.99	277.09	290.51	254.35	222.7	182.86	164.31	154.9	149.25	142.54	149.31	127.37	126.53
	ci. min. 90%	1429.09	1678.84	1818.21	1848.66	1921.13	1990.66	1967.78	1995.47	1997.55	1981.18	1947.73	1854.24	1815.93
	ci. max. 90%	1552.11	1805.09	1950.58	1964.56	1994.34	2052.67	2025.36	2051.7	2053.82	2037.17	2009.06	1909.2	1873.58
	geom. mean	1459.23	1718.79	1861.1	1889.26	1944.72	2013.62	1989.87	2017.82	2020.25	2004.2	1972.91	1877.52	1840.51
	minimum	538.5	1041.06	1249.46	1331.99	1273.74	1619.14	1613.68	1777.3	1736.75	1754.44	1728.58	1688.46	1657.47
	maximum	1984.24	2246.78	2545.24	2438.82	2646.57	2605.79	2325.39	2462.01	2306.52	2290.84	2275.48	2134.19	2085.57
set1	**first quartile**	1359.01	1552.08	1618.42	1665.64	1742.08	1780.26	1790.13	1816.37	1809.95	1815.09	1796.64	1707.93	1667.87
	median	1428.67	1689.68	1786.24	1848.84	1907.95	1963.57	2013.05	2028.45	2027.21	1967.39	1926.22	1842.65	1786.6
	third quartile	1677.82	1875.66	1931.08	2037.13	2056.8	2093.06	2098.75	2133.0	2128.99	2120.86	2114.16	1977.48	1948.25
	mean val.	1457.69	1672.79	1779.56	1805.47	1907.11	1954.87	1957.48	1992.01	1981.47	1967.68	1946.88	1845.53	1808.12
	standard dev.	251.9	251.12	238.73	292.73	212.22	188.76	195.93	180.85	187.54	158.78	166.99	147.42	148.31
	ci. min. 90%	1400.3	1615.59	1725.17	1738.78	1872.23	1922.87	1923.15	1959.19	1946.12	1936.49	1912.58	1813.73	1774.34
	ci. max. 90%	1515.08	1730.0	1833.94	1872.16	1942.0	1986.87	1991.81	2024.83	2016.83	1998.86	1981.18	1877.34	1841.91
	geom. mean	1433.38	1652.35	1763.53	1779.25	1895.38	1945.97	1947.56	1984.0	1972.8	1961.38	1939.82	1839.75	1802.17
	minimum	799.69	993.7	1305.46	989.95	1331.99	1584.88	1298.97	1738.94	1667.18	1738.94	1670.76	1588.95	1604.0
	maximum	1837.01	2112.04	2251.1	2272.58	2564.36	2435.85	2475.39	2416.34	2386.58	2244.86	2180.43	2077.41	2020.76
ttest equality		SAME	SAME	DIFF	DIFF	DIFF	DIFF	SAME	SAME	SAME	SAME	SAME	SAME	SAME
baseline set1 difference		-4.48 %	-3.24 %	-8.64 %	-4.31 %	-2.54 %	-2.63 %	0.5 %	0.14 %	-0.37 %	-1.33 %	-2.68 %	-1.54 %	-2.96 %
ttest p-value		0.5139	0.177	0.0429	0.058	0.0981	0.0136	0.1488	0.226	0.1053	0.1011	0.2551	0.1529	0.1702

See raw data ALL_bs_baseline.tsv and ALL_bs_set1.tsv.



Regression line	
slope	0.9732
std. error	0.01686
ci. max 90%	0.9453
ci. min. 90%	1.00111



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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