A. Summary tables from EMOP

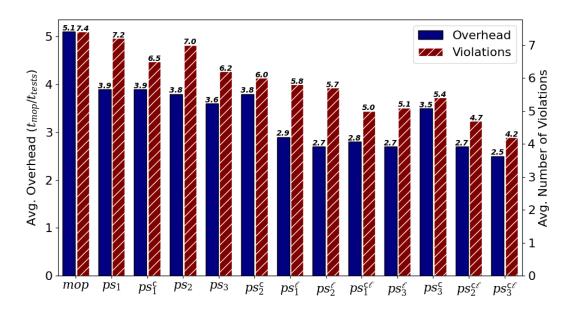


Fig. 1: Summary figure for RPS and VMS (individual).

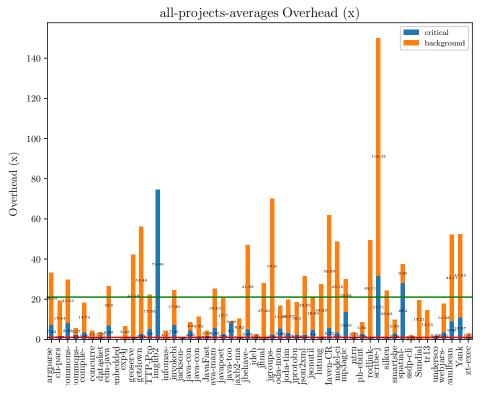


Fig. 2: Summary figure for RPP (individual). The orange line is normal test execution (1, since it is the baseline), and the green line is JavaMOP overhead.

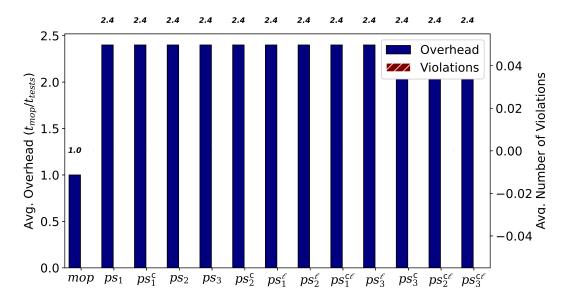
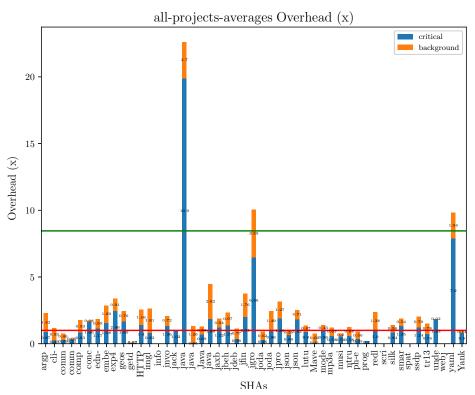


Fig. 3: Summary figure for RPS + VMS (combination).



SHAs Fig. 4: Summary figure for RPS + RPP (combination on ps_3^{cl}). The orange line is normal test execution (1, since it is the baseline), and the green line is JavaMOP overhead.

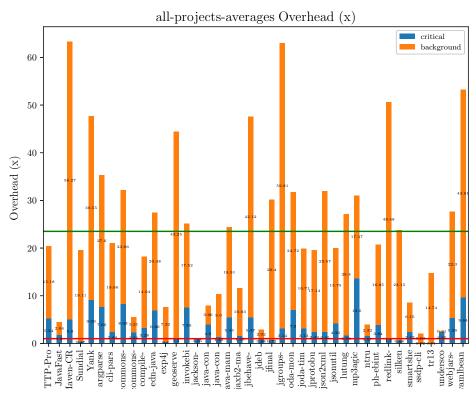


Fig. 5: Summary figure for RPP + VMS (combination). The orange line is normal test execution (1, since it is the baseline), and the green line is JavaMOP overhead.

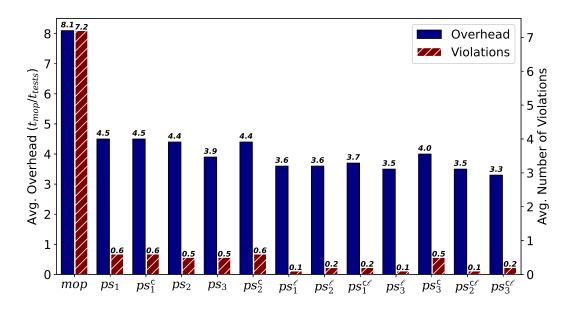


Fig. 6: Summary figure for RPS + RPP + VMS (combination) for projects more than 5x overhead.

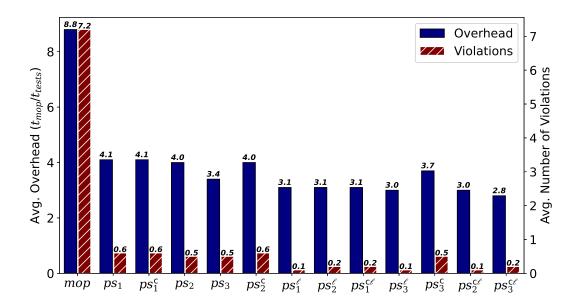


Fig. 7: Summary figure for RPS + RPP + VMS (combination) for projects more than 6x overhead.

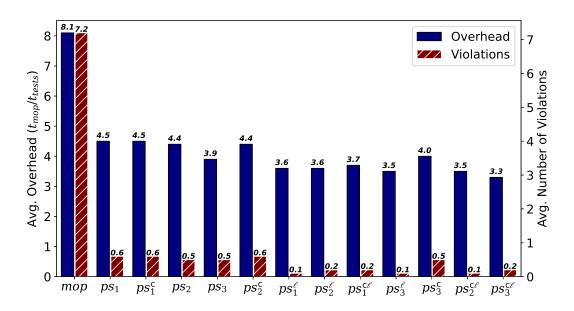


Fig. 8: Summary figure for RPS + RPP + VMS (combination) for projects more than 5x overhead.

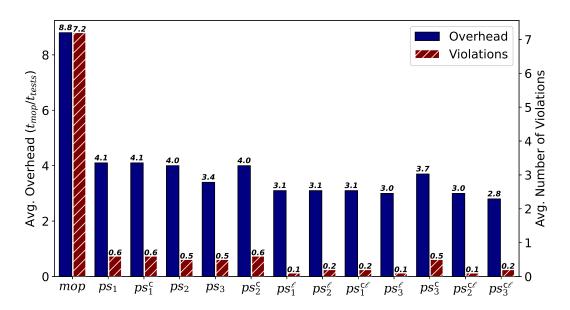
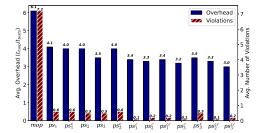
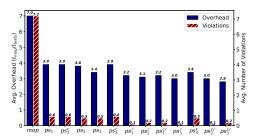


Fig. 9: Summary figure for RPS + RPP + VMS (combination) for projects more than 6x overhead.

TABLE I: Safety summary with unsafe variants and number of unsafe violations found

Project/sha	Unsafe Variants(Number of unsafe violations)
commons-fileupload/18db2b7	ps1l(6) ps1cl(6) ps2l(6) ps2cl(6) ps3l(6) ps3cl(6)
compile-testing/2678c36	ps1l(6) ps1cl(6) ps2(2) ps2c(2) ps2l(6) ps3c(6) ps3c(2) ps3c(2) ps3l(6) ps3cl(6)
compile-testing/326c53f	ps1l(8) ps1cl(8) ps2l(8) ps2cl(8) ps3l(8) ps3cl(8)
compile-testing/3f1f222	ps1l(6) ps1cl(6) ps2l(6) ps2l(6) ps3l(6) ps3cl(6)
compile-testing/s577222	ps1l(6) ps1cl(6) ps2l(6) ps2l(6) ps3l(6) ps3cl(6)
compile-testing/ebbc462	ps1l(8) ps1cl(8) ps2cl(0) ps2cl(0) ps3cl(0) ps3cl(0) ps3cl(0) ps3cl(8) ps2cl(8) ps2cl(8) ps3cl(2) ps3cl(8) ps3cl(8)
HTTP-Proxy-Servlet/238dd22	
	ps1l(12) ps1cl(12) ps2l(12) ps2cl(12) ps3cl(12) ps3cl(12)
jaxb2-maven-plugin/22be72a	ps1l(2) ps1cl(2) ps2l(2) ps2cl(2) ps3l(2) ps3cl(2)
jaxb2-maven-plugin/2f5dd20	ps1l(6) ps1cl(6) ps2l(6) ps2cl(6) ps3l(6) ps3cl(6)
jaxb2-maven-plugin/5f10668	ps1l(2) ps1cl(2) ps2l(2) ps2cl(2) ps3(2) ps3c(2) ps3l(2) ps3cl(2)
jaxb2-maven-plugin/ca74a04	ps1l(2) ps1cl(2) ps2l(2) ps2cl(2) ps3l(2) ps3cl(2)
jdeb/2a3db71	ps1l(4) ps1cl(4) ps2l(4) ps2cl(4) ps3l(4) ps3cl(4)
jdeb/5051010	ps1l(4) ps1cl(4) ps2l(4) ps2cl(4) ps3l(4) ps3cl(4)
jdeb/79f8453	ps1l(8) ps1cl(8) ps2l(8) ps2cl(8) ps3l(8) ps3cl(8)
jdeb/b2d3867	ps1l(6) ps1cl(6) ps2l(6) ps2cl(6) ps3l(6) ps3cl(6)
jdeb/f95f9cf	ps1l(16) ps1cl(16) ps2l(16) ps2cl(16) ps3l(16) ps3cl(16)
ph-ebinterface/74b2640	ps2(4) ps2c(4) ps2l(6) ps2cl(6) ps3(4) ps3c(4) ps3l(6) ps3cl(6)
underscore-java/b1e1ea6	ps1c(6) ps1cl(6) ps2c(6) ps2cl(6) ps3c(16) ps3cl(16)
webjars-locator/9ed8827	ps1l(2) ps1cl(2) ps2l(2) ps2cl(2) ps3l(2) ps3cl(2)
Yank/98a630c	ps2(2) ps2c(2) ps2l(2) ps2cl(2) ps3c(2) ps3l(2) ps3cl(2)





(a) Summary figure for RPS + RPP + VMS (combination) for (b) Summary figure for RPS + RPP + VMS (combination) for projects where $t_{mop}-t_{tests}$ takes more than 17 seconds. projects where $t_{mop}-t_{tests}$ takes more than 34 seconds.

Fig. 10: RPS + RPP + VMS (combination) for projects above some threshold.

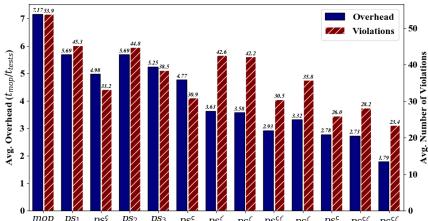
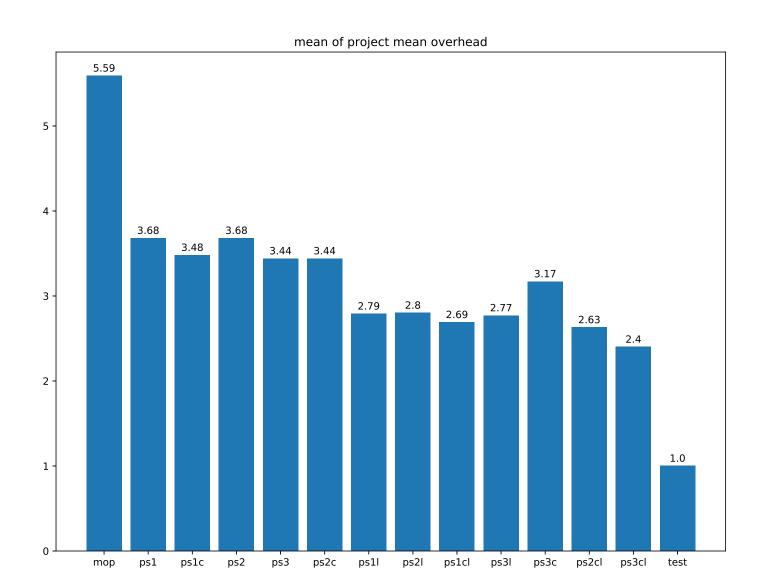
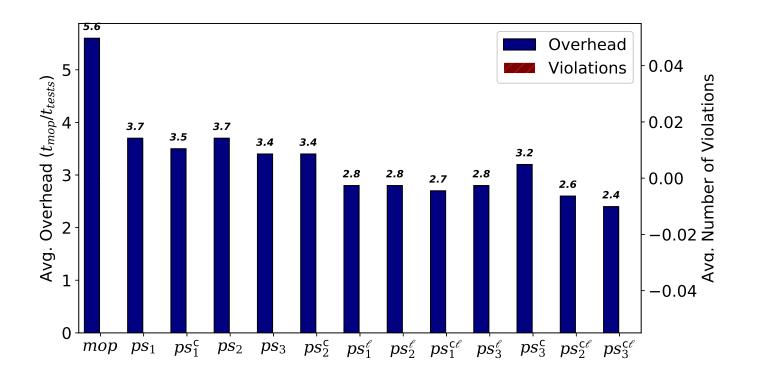


Fig. 11: Runtime overheads of, and violations from JavaMOP and all RPS variants in EMOP for the projects and versions in our earlier paper [?].





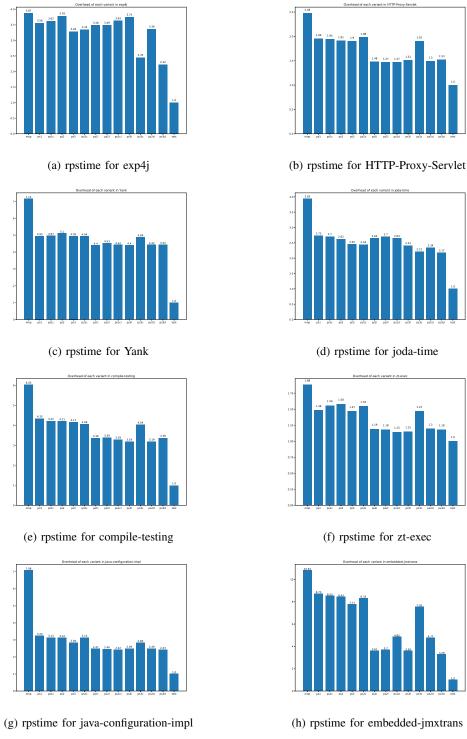


Fig. 12: Plots for rps Part 1

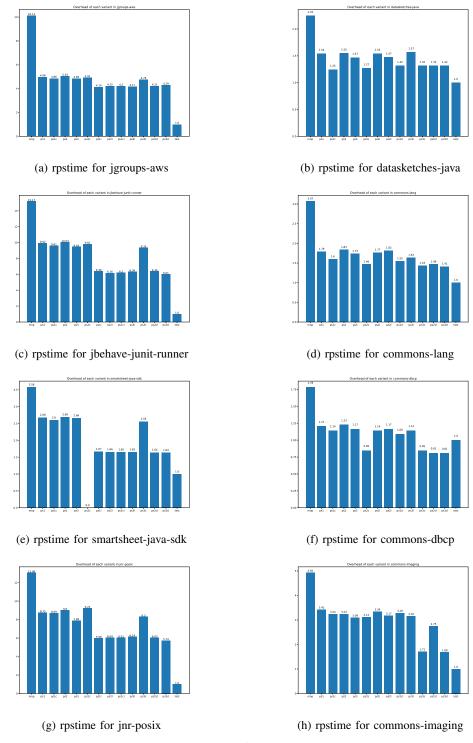


Fig. 13: Plots for rps Part 2

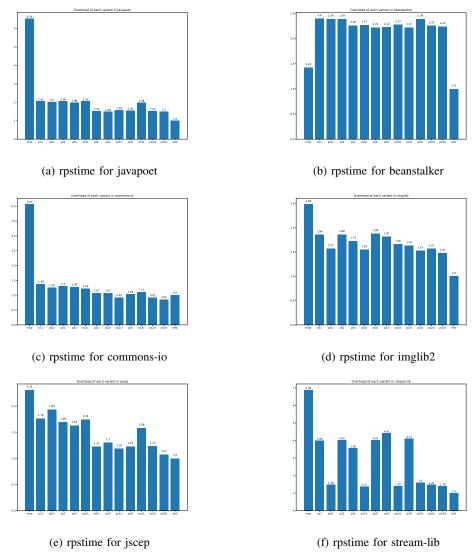


Fig. 14: Plots for rps Part END

TABLE II: Outcomes of RPS (rps) sum time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
exp4j	1757.1	1613.7	1642.5	1716.2	1489.0	1517.7	1581.0	1581.2	1646.1	1699.1	1112.8	1525.5	1008.3	453.7
HTTP-Proxy-Servlet	1617.1	1278.0	1270.7	1249.3	1241.7	1294.2	966.0	960.3	960.1	987.6	1245.9	978.0	995.4	652.7
Yank	356.0	246.5	247.5	254.0	246.5	245.9	218.9	225.7	220.1	219.1	243.3	220.2	221.2	49.8
joda-time	2081.0	1442.9	1431.4	1386.9	1296.3	1293.4	1398.5	1428.3	1398.8	1276.3	1169.6	1236.6	1149.3	529.2
compile-testing	1844.4	1329.1	1290.7	1286.1	1274.0	1241.8	1028.3	1035.7	1005.8	974.8	1234.6	975.1	1031.9	305.7
zt-exec	386.0	304.1	320.0	324.6	300.9	317.4	244.5	242.7	234.9	236.1	301.2	244.9	242.6	204.9
java-configuration-impl	629.2	288.4	278.7	277.5	252.6	278.7	219.7	218.9	215.5	221.6	251.5	221.6	215.7	88.9
embedded-jmxtrans	2174.5	1756.3	1715.5	1696.2	1563.1	1675.0	726.9	744.1	974.5	722.1	1519.3	958.9	660.5	201.1
jgroups-aws	464.5	228.4	223.1	231.1	222.7	225.5	190.0	193.6	192.8	191.4	218.3	193.2	196.8	45.9
datasketches-java	3785.2	2599.6	2099.4	2606.6	2476.2	2142.2	2600.8	2480.4	2217.5	2641.1	2218.9	2221.2	2216.1	1683.3
jbehave-junit-runner	3524.8	2304.2	2232.6	2328.9	2193.1	2277.8	1482.9	1431.2	1439.9	1472.2	2171.2	1477.9	1396.6	232.3
commons-lang	1254.7	731.3	653.0	750.5	709.7	598.7	722.2	743.6	632.5	668.8	585.3	598.9	577.5	409.1
smartsheet-java-sdk	964.9	722.9	701.3	725.5	718.2	0.0	450.0	447.4	445.3	445.8	691.1	443.6	441.0	269.7
commons-dbcp	1796.3	1215.2	1148.9	1236.4	1175.2	855.0	1148.1	1174.7	1097.0	1151.8	853.4	818.7	814.3	1007.1
jnr-posix	7636.2	5116.7	5083.9	5265.1	4615.3	5393.9	3494.2	3530.0	3516.4	3591.7	4852.7	3527.6	3355.8	584.8
commons-imaging	1723.5	1198.4	1134.3	1135.8	1082.7	1092.5	1169.6	1110.9	1150.1	1105.6	599.4	963.0	586.8	350.3
javapoet	1133.4	355.3	347.9	356.7	343.8	355.2	265.4	257.0	273.1	268.0	342.6	264.4	259.6	173.2
beanstalker	1896.3	3193.8	3183.0	3180.6	3010.8	3019.7	2957.3	2962.2	3027.4	2952.6	3182.3	3000.7	2983.2	1331.6
commons-io	7885.4	2670.6	2435.9	2529.8	2480.9	2380.8	2080.8	2082.6	1785.9	1996.4	2151.5	1777.5	1652.2	1939.2
imglib2	613.9	458.9	388.7	460.5	427.2	383.3	464.7	448.7	410.9	403.6	377.2	387.1	364.6	247.3
jscep	2142.5	1636.1	1797.9	1570.6	1514.4	1617.2	1133.7	1205.3	1099.0	1140.9	1464.9	1142.1	997.1	927.9
stream-lib	11892.6	6896.5	2557.8	6953.9	6149.0	2364.3	6956.7	7620.1	2404.9	7102.1	2772.2	2542.7	2404.5	1729.5
sum	57559.5	37586.7	32184.6	37522.6	34783.3	30570.2	31500.2	32124.6	26348.9	31468.6	29559.2	25719.4	23771.0	13417.2
mean	2616.3	1708.5	1462.9	1705.6	1581.1	1389.6	1431.8	1460.2	1197.7	1430.4	1343.6	1169.1	1080.5	609.9

TABLE III: Outcomes of RPS (rps) mean time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
exp4j	35.9	32.9	33.5	35.0	30.4	31.0	32.3	32.3	33.6	34.7	22.7	31.1	20.6	9.3
HTTP-Proxy-Servlet	33.0	26.1	25.9	25.5	25.3	26.4	19.7	19.6	19.6	20.2	25.4	20.0	20.3	13.3
Yank	22.2	15.4	15.5	15.9	15.4	15.4	13.7	14.1	13.8	13.7	15.2	13.8	13.8	3.1
joda-time	42.5	29.4	29.2	28.3	26.5	26.4	28.5	29.1	28.5	26.0	23.9	25.2	23.5	10.8
compile-testing	37.6	27.1	26.3	26.2	26.0	25.3	21.0	21.1	20.5	19.9	25.2	19.9	21.1	6.2
zt-exec	27.6	21.7	22.9	23.2	21.5	22.7	17.5	17.3	16.8	16.9	21.5	17.5	17.3	14.6
java-configuration-impl	27.4	12.5	12.1	12.1	11.0	12.1	9.6	9.5	9.4	9.6	10.9	9.6	9.4	3.9
embedded-jmxtrans	44.4	35.8	35.0	34.6	31.9	34.2	14.8	15.2	19.9	14.7	31.0	19.6	13.5	4.1
jgroups-aws	29.0	14.3	13.9	14.4	13.9	14.1	11.9	12.1	12.1	12.0	13.6	12.1	12.3	2.9
datasketches-java	80.5	55.3	44.7	55.5	52.7	45.6	55.3	52.8	47.2	56.2	47.2	47.3	47.2	35.8
jbehave-junit-runner	71.9	47.0	45.6	47.5	44.8	46.5	30.3	29.2	29.4	30.0	44.3	30.2	28.5	4.7
commons-lang	66.0	38.5	34.4	39.5	37.4	31.5	38.0	39.1	33.3	35.2	30.8	31.5	30.4	21.5
smartsheet-java-sdk	48.2	36.1	35.1	36.3	35.9		22.5	22.4	22.3	22.3	34.6	22.2	22.1	13.5
commons-dbcp	94.5	64.0	60.5	65.1	61.9	45.0	60.4	61.8	57.7	60.6	44.9	43.1	42.9	53.0
jnr-posix	155.8	104.4	103.8	107.5	94.2	110.1	71.3	72.0	71.8	73.3	99.0	72.0	68.5	11.9
commons-imaging	90.7	63.1	59.7	59.8	57.0	57.5	61.6	58.5	60.5	58.2	31.5	50.7	30.9	18.4
javapoet	59.7	18.7	18.3	18.8	18.1	18.7	14.0	13.5	14.4	14.1	18.0	13.9	13.7	9.1
beanstalker	38.7	65.2	65.0	64.9	61.4	61.6	60.4	60.5	61.8	60.3	64.9	61.2	60.9	27.2
commons-io	415.0	140.6	128.2	133.1	130.6	125.3	109.5	109.6	94.0	105.1	113.2	93.6	87.0	102.1
imglib2	32.3	24.2	20.5	24.2	22.5	20.2	24.5	23.6	21.6	21.2	19.9	20.4	19.2	13.0
jscep	43.7	33.4	36.7	32.1	30.9	33.0	23.1	24.6	22.4	23.3	29.9	23.3	20.3	18.9
stream-lib	625.9	363.0	134.6	366.0	323.6	124.4	366.1	401.1	126.6	373.8	145.9	133.8	126.6	91.0
sum	2122.7	1268.7	1001.2	1265.4	1172.7	927.0	1105.9	1139.1	837.1	1101.2	913.8	811.9	749.6	488.5
mean	96.5	57.7	45.5	57.5	53.3	44.1	50.3	51.8	38.0	50.1	41.5	36.9	34.1	22.2

TABLE IV: Outcomes of RPS (rps) exp4j time

								5 (1ps)	1 0					
sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
9b5270	103.1	110.2	119.1	119.4	105.9	106.3	103.3	105.3	110.6	129.5	119.7	101.7	103.1	9.5
abf84e	106.6	101.9	100.1	108.8	99.9	92.6	105.1	101.4	120.2	128.1	75.7	104.2	61.7	9.4
bfaeb2	107.3	97.9	106.8	110.5	95.0	100.6	104.6	100.8	115.9	127.8	75.3	103.7	69.4	9.5
4346b2	107.3	108.7	104.6	114.8	105.2	92.7	104.4	106.7	111.3	124.4	21.4	99.2	19.3	9.3
16f249	112.3	108.2	108.2	116.3	97.9	94.6	105.8	102.9	108.8	127.9	22.5	101.9	20.9	9.6
с339сс	106.9	109.9	107.1	115.9	102.3	92.2	106.7	105.5	106.5	120.9	20.8	100.2	19.6	9.6
224191	105.2	107.8	119.3	116.4	110.9	109.1	97.4	102.7	107.8	124.4	115.8	98.0	99.2	9.6
5b63e1	104.2	106.8	113.0	111.4	98.6	90.8	104.2	99.3	108.1	124.0	68.8	91.6	62.4	9.6
76ffe6	108.3	3.4	3.4	3.4	3.4	3.2	3.7	3.6	3.4	3.6	3.3	3.1	3.4	9.4
f80e8b	104.9	98.3	102.2	110.9	20.8	93.2	105.2	103.3	107.5	24.5	13.5	101.6	13.1	9.6
8ff4f1	103.3	104.5	105.8	110.7	99.4	93.6	95.7	98.8	105.5	118.6	23.2	93.8	20.4	9.7
96c52c	19.6	20.1	19.9	20.7	20.0	19.9	20.9	20.9	20.5	21.0	20.4	20.4	20.0	8.9
9d7620	14.0	13.4	13.7	14.2	13.5	13.7	13.3	13.4	13.2	13.2	13.8	12.7	13.2	8.9
1640d4	13.7	13.1	13.0	13.5	13.1	13.1	13.0	13.2	12.6	13.4	13.4	12.4	12.5	9.1
377eb0	13.7	15.0	14.8	15.4	14.9	14.6	14.2	14.2	14.4	14.7	15.8	13.9	14.2	9.0
b5b575	14.2	14.4	14.8	14.9	14.4	14.5	14.3	14.1	13.9	14.1	14.7	13.9	13.5	9.1
1f4ac3	14.1	14.7	14.4	14.9	13.7	14.4	14.2	14.1	14.0	13.1	13.6	13.5	12.6	8.9
f27e78	14.0	14.6	14.2	15.1	13.3	14.0	14.3	14.4	13.9	13.2	13.8	13.7	12.7	9.0
59849d	14.7	14.8	14.1	15.6	13.9	14.1	14.0	14.2	13.8	13.4	13.7	13.4	12.6	9.0
a97382	15.5	15.6	15.7	16.1	15.3	15.5	15.1	15.6	15.1	16.1	15.9	15.2	15.0	9.1
83de2b	15.2	15.7	15.2	16.2	15.9	15.1	15.3	15.7	15.4	15.9	16.0	15.1	14.8	9.1
70d59f	15.2	14.9	14.4	14.9	14.5	14.2	14.6	14.7	14.6	14.7	14.7	13.8	13.9	9.1
49d187	15.2	14.7	14.6	15.5	14.6	15.4	14.5	14.6	14.3	15.0	14.1	14.0	12.9	9.1
219dfc	15.8	15.4	15.7	15.6	14.9	15.2	15.2	15.1	15.2	15.7	15.4	14.9	15.0	9.2
eb7ec0	15.4	14.7	14.8	14.9	14.5	14.7	14.7	15.0	14.9	14.7	14.9	14.5	14.3	9.2
fe0b59	15.1	15.1	15.1	15.6	14.7	14.4	14.7	15.4	14.8	15.1	15.0	13.8	13.5	9.1
3d3255	15.3	15.1	15.1	15.4	15.2	14.2	14.6	14.8	15.0	15.0	14.8	13.3	13.8	9.0
fb1bd8	15.0	2.9	3.2	3.3	3.0	3.1	3.3	3.3	3.3	3.1	3.2	3.0	3.2	9.2
377f45	15.2	15.8	15.3	16.3	15.3	15.8	15.3	15.4	14.8	15.4	15.4	15.1	14.5	9.2
58938f	15.8	16.1	16.3	17.1	16.1	15.9	15.7	16.0	15.2	15.8	16.2	15.1	15.2	9.2
e329dd	15.4	16.2	16.0	17.0	15.9	15.3	15.0	15.6	15.0	15.7	15.4	14.5	14.4	9.4
9d257d	15.8	16.0	16.0	16.5	15.9	14.9	15.2	15.3	14.9	15.1	15.5	14.5	14.3	9.3
ee8d81	15.4	3.3	3.2	3.3	3.2	3.1	3.1	3.4	3.3	3.2	3.2	3.2	3.1	9.4
403989	15.8	16.0	15.9	16.7	16.4	15.9	15.2	15.7	15.1	15.8	16.2	14.8	14.2	9.1
9da6d6	15.2	16.0	15.7	17.1	15.7	15.3	15.6	15.3	15.1	15.9	15.2	14.5	14.4	9.3
8df7ad	15.6	15.9	15.7	16.8	16.4	15.8	15.9	15.8	16.1	15.8	15.9	15.1	15.2	9.2
115238	15.6	16.1	16.1	16.6	16.3	15.6	15.6	16.2	15.4	16.1	16.1	15.4	15.3	9.1
e977f1	15.6	16.0	16.0	17.0	14.5	15.9	15.4	15.9	15.2	14.9	14.2	15.6	13.5	9.3
eb606b	16.2	16.3	16.4	17.0	16.5	16.3	16.2	16.3	15.5	16.6	16.3	15.6	15.4	9.4
bc9a8a	16.1	16.1	15.8	16.5	16.4	16.4	15.6	15.5	16.3	16.0	16.8	15.6	15.1	9.1
0f86d5	15.5	16.1	15.8	16.7	16.1	15.9	16.0	15.5	16.0	16.1	17.1	15.2	15.7	9.3
fb1103	15.8	3.2	3.2	3.3	3.1	3.2	3.3	3.4	3.3	3.5	3.2	3.1	3.0	9.3
2b82f0	15.9	16.0	15.7	16.7	16.2	16.5	15.5	15.8	15.5	15.4	16.2	14.9	15.3	9.2
e3fbf3	16.0	16.5	16.7	17.6	16.7	16.7	16.8	16.8	16.6	16.6	16.9	16.0	16.4	9.2
c2f7b9	16.3	15.2	14.7	15.8	12.5	15.1	15.1	15.8	14.9	12.8	12.8	14.5	12.3	9.4
1af15f	16.4	16.0	16.2	16.7	16.4	15.8	16.2	15.8	15.9	15.3	16.9	15.4	15.2	9.2
726228	15.7	16.0	16.1	16.4	16.4	16.1	15.6	15.8	15.5	15.8	15.9	14.8	14.7	9.3
12eb15	16.1	16.5	16.6	17.5	17.1	16.7	16.2	16.4	15.6	15.8	16.7	16.1	15.2	9.2
bae815	16.2	17.1	16.9	17.6	17.2	16.7	16.1	16.6	16.4	16.3	17.3	15.8	15.7	9.5
sum	1757.1	1613.7	1642.5	1716.2	1489.0	1517.7	1581.0	1581.2	1646.1	1699.1	1112.8	1525.5	1008.3	453.7
mean	35.9	32.9	33.5	35.0	30.4	31.0	32.3	32.3	33.6	34.7	22.7	31.1	20.6	9.3

TABLE V: Outcomes of RPS (rps) HTTP-Proxy-Servlet time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
33e505	15.3	8.9	8.9	8.5	8.4	9.2	7.1	6.8	6.9	7.8	8.6	7.2	7.6	3.0
4b1e27	15.5	8.1	8.2	7.8	7.7	8.6	6.2	6.4	6.1	6.7	7.8	6.6	6.8	3.0
98985b	15.0	8.1	8.1	8.0	7.6	8.7	6.4	6.6	6.2	6.5	7.8	6.5	6.6	2.9
1d5413	15.6	7.9	8.5	8.2	8.3	8.2	6.2	6.2	6.2	7.0	8.0	6.3	6.6	2.9
cb3a0b	15.0	7.9	8.4	8.0	7.8	8.4	6.3	6.2	6.0	6.6	7.9	6.3	6.5	3.0
fa9d71	15.1	3.7	3.6	3.3	3.1	3.5	3.8	3.5	3.4	3.5	3.5	3.4	3.6	3.0
58e91f	14.8	15.1	14.5	14.3	14.6	15.2	6.9	7.1	7.1	7.3	14.2	6.9	7.6	3.0
8a41cf	15.3	14.7	14.2	13.9	9.4	15.1	7.1	6.6	6.5	6.7	9.0	7.1	6.7	3.0
6925e1	15.7	13.6	13.6	12.9	13.3	14.1	6.8	6.6	6.5	7.0	13.3	7.2	7.2	3.0
5500d9	15.8	17.2	17.2	16.7	17.0	18.6	17.5	16.8	16.9	18.0	17.1	17.9	17.4	3.1
32401f	16.8	14.3	13.8	13.7	13.2	14.5	7.1	7.2	6.9	7.3	14.2	7.1	7.9	2.9
b8405e	16.0	14.1	14.1	13.4	13.4	14.1	7.2	7.1	7.5	7.2	13.4	7.5	7.2	3.0
c93ca1	16.2	14.0	13.9	13.1	13.6	14.4	7.1	7.1	7.1	7.5	13.3	7.3	7.3	2.9
e9cc22	16.7	13.9	14.5	13.7	13.8	14.6	7.7	7.4	7.3	7.8	14.2	7.8	7.9	3.1
1e3a0c	16.7	13.7	13.7	13.5	9.8	13.9	7.4	7.1	7.0	7.5	9.5	7.7	7.4	3.2
60fe09	16.4	14.1	14.2	13.7	13.8	14.9	7.4	7.3	7.0	7.7	13.7	7.5	8.0	3.4
0afcc5	19.0	20.8	20.1	19.2	19.9	21.1	19.7	19.2	19.5	20.8	19.5	20.8	20.5	5.3
72583c	27.0	24.6	25.0	23.9	24.0	25.4	17.8	17.9	17.7	18.0	23.9	18.0	18.0	13.3
417b86	27.2	24.2	24.6	23.9	23.8	24.6	17.5	17.3	17.4	17.7	23.7	18.0	17.9	13.4
c67d99	27.4	24.6	24.0	23.9	24.2	24.6	17.2	17.6	17.2	17.5	24.2	17.3	18.0	13.4
cf2f89	31.9	30.3	30.1	29.3	29.3	30.8	22.8	22.7	22.9	23.0	29.4	22.9	23.1	18.4
5eb89e	33.1	29.7	29.6	29.6	29.2	30.1	22.9	22.4	22.8	23.3	29.5	22.7	23.0	18.4
a69a17	32.8	29.6	29.4	29.1	29.1	30.3	22.6	22.4	22.3	22.9	29.8	22.7	23.0	18.4
bfcd7d	32.4	29.3	29.7	29.5	29.2	29.8	22.6	22.4	22.5	23.0	29.5	23.2	23.2	18.6
db06a4	32.4	3.8	4.0	3.4	3.6	3.9	3.6	3.5	3.6	4.0	3.5	3.8	3.9	18.6
9df9bb	32.1	29.8	29.8	29.3	29.0	30.0	22.9	22.3	22.4	22.7	29.8	23.4	23.0	18.5
2b2d95	32.2	33.2	33.1	33.0	33.0	33.2	33.2	32.7	32.8	34.2	33.2	33.7	34.1	18.7
89f716	32.1	29.8	29.6	29.1	29.2	29.8	22.6	22.8	22.9	23.1	29.0	23.1	23.4	18.5
a58a72	31.7	29.2	29.3	28.8	28.8	29.2	22.6	22.5	22.4	22.9	29.1	22.7	22.6	18.4
6cabde	31.7	29.6	29.2	28.8	28.9	29.5	22.2	22.5	22.5	22.9	29.3	23.1	23.1	18.3
a5b6ec	31.7	3.9	3.6	3.3	3.4	3.7	3.5	3.6	3.4	3.5	3.5	3.4	3.7	18.4
d9b90d	31.9	32.9	33.0	32.9	33.1	34.3	33.5	33.2	32.8	33.5	33.1	33.3	33.8	18.4
5caba4	32.8	29.8	29.4	28.8	29.0	29.5	22.7	22.5	22.7	22.9	29.4	23.1	23.5	18.4
3bcd87	32.2	33.5	33.2	33.0	33.5	33.5	34.6	32.9	32.8	33.6	33.6	33.4	34.7	18.4
5ee88f	32.0	29.3	29.2	28.8	29.0	29.3	22.9	22.5	22.5	23.1	29.0	22.8	23.1	18.4
3050d5	32.1	29.5	29.3	28.7	28.7	29.8	22.3	22.8	22.2	22.8	29.6	23.4	23.2	18.4
babd76	32.3	29.8	29.6	28.8	28.9	29.7	22.4	22.5	22.5	22.7	29.1	22.6	22.7	18.4
4defd0	32.8	29.2	29.6	28.6	29.1	29.9	22.3	22.4	22.3	22.7	29.0	23.1	23.1	18.4
22d442	46.6	48.1	47.1	46.8	46.9	48.2	46.6	46.4	47.0	48.5	47.4	46.9	49.2	19.2
238dd2	61.8	65.6	62.5	61.4	63.0	64.4	62.5	63.1	63.1	65.0	64.2	63.4	65.0	19.9
34edf5	63.2	49.3	49.7	49.8	48.5	49.9	25.3	25.2	24.9	25.7	48.9	25.4	25.5	20.7
cec23d	64.1	65.4	65.0	65.1	65.9	66.5	64.5	64.4	65.5	66.6	64.4	65.5	67.5	21.1
fb734f	64.6	49.6	49.7	48.4	48.9	50.4	25.3	25.0	25.7	25.4	48.5	25.5	25.8	21.0
d75353	63.6	50.0	49.7	49.4	46.1	50.2	25.3	25.8	24.9	25.4	46.0	25.5	25.9	21.0
36c6a0	64.8	4.2	4.5	4.1	4.4	4.6	4.4	4.3	4.3	4.7	4.2	4.5	4.7	20.8
a5d4b6	64.0	3.8	3.8	4.1	3.6	4.0	4.1	3.9	3.6	4.2	3.8	4.1	4.2	20.8
c17fb9	63.1	49.7	49.5	49.3	48.9	50.3	25.1	25.2	25.7	25.6	49.6	25.7	26.3	20.9
7ad6d4	64.3	66.4	65.8	65.4	64.9	67.0	64.9	64.7	65.7	67.8	64.8	65.2	68.3	20.8
531709	64.3	49.8	49.6	49.3	49.4	50.7	25.5	25.6	25.2	25.7	49.1	25.4	25.9	20.8
sum	1617.1	1278.0	1270.7	1249.3	1241.7	1294.2	966.0	960.3	960.1	987.6	1245.9	978.0	995.4	652.7
mean	33.0	26.1	25.9	25.5	25.3	26.4	19.7	19.6	19.6	20.2	25.4	20.0	20.3	13.3

TABLE VI: Outcomes of RPS (rps) Yank time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
5709ce	21.7	21.9	22.5	22.7	21.4	22.4	21.3	22.0	21.5	22.2	21.1	21.6	22.4	3.0
76e782	21.4	15.9	16.1	16.7	15.9	15.9	7.8	8.1	8.0	7.8	16.0	7.4	7.4	3.0
b26e90	22.6	3.0	2.8	2.9	3.2	3.0	3.0	3.4	3.2	3.1	3.0	3.0	3.0	3.0
afbca2	21.7	21.6	22.4	23.3	21.8	21.8	21.6	22.1	22.4	21.7	21.8	22.0	22.1	2.9
9245c9	21.8	3.0	2.7	2.9	2.9	2.7	3.0	3.0	2.9	2.9	2.8	2.8	2.8	2.9
88a0df	21.3	15.3	14.9	15.2	15.5	14.6	6.6	7.1	6.7	6.6	15.3	7.1	6.3	3.0
cc7c44	21.9	21.5	22.2	22.6	22.1	22.3	22.0	22.6	21.9	21.8	22.0	21.8	22.4	2.9
6fd980	21.7	2.9	2.8	2.8	2.9	2.9	2.8	3.0	2.8	2.8	2.8	2.9	2.7	2.9
24ff95	21.7	22.1	22.7	22.9	22.2	22.2	22.7	23.5	22.6	22.4	22.1	22.4	22.5	2.9
cfb9b8	22.0	22.7	22.3	23.0	22.2	22.7	21.5	23.4	21.8	22.2	21.9	22.2	22.6	3.0
580435	22.0	23.3	22.4	24.0	23.0	23.7	22.3	23.2	22.4	22.5	22.7	23.1	23.0	3.1
6752dc	22.5	3.3	3.1	3.3	3.1	3.1	3.3	3.2	3.1	3.2	3.4	3.3	3.1	2.9
a13462	22.5	22.6	23.7	23.7	23.2	22.4	23.2	23.0	23.5	22.6	22.5	22.5	23.2	2.9
ed0e73	22.7	16.5	16.9	17.0	16.8	16.4	8.0	8.3	8.0	7.9	16.4	7.9	7.9	3.7
1f3139	23.2	3.8	3.6	3.7	4.0	3.8	3.8	3.9	3.8	3.8	3.7	3.9	3.8	3.7
1031dc	25.4	27.0	26.4	27.2	26.3	26.0	25.9	26.2	25.6	25.5	25.8	26.1	25.9	3.8
sum	356.0	246.5	247.5	254.0	246.5	245.9	218.9	225.7	220.1	219.1	243.3	220.2	221.2	49.8
mean	22.2	15.4	15.5	15.9	15.4	15.4	13.7	14.1	13.8	13.7	15.2	13.8	13.8	3.1

TABLE VII: Outcomes of RPS (rps) joda-time time

						Juteome	5 OI IXI C	, (1ps) Je						
sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
381cca	42.4	29.4	28.0	28.5	28.5	29.5	28.7	29.1	28.4	28.4	27.9	27.7	27.7	10.4
eaaff1	43.0	33.6	33.0	32.8	33.3	34.2	32.2	34.3	32.6	32.5	32.9	32.2	32.7	11.2
ca7bec	42.7	10.7	10.5	9.9	10.5	11.0	10.2	11.0	10.2	10.1	10.4	9.8	9.9	10.7
4d84d8	42.6	33.2	33.4	32.7	31.5	24.3	31.7	33.6	32.6	32.2	20.7	23.0	19.3	10.9
f81758	41.8	32.9	32.7	32.3	32.0	24.0	31.7	33.9	32.5	31.9	20.6	22.7	19.8	10.8
dc4376	42.8	27.4	21.1	27.4	17.3	21.2	26.8	28.3	20.2	16.7	15.3	20.1	15.0	10.7
fb2063	42.3	34.4	33.2	32.1	32.3	25.4	32.9	33.5	32.9	31.1	22.3	23.6	20.4	10.5
262448	41.2	32.7	32.4	29.2	18.4	22.5	31.8	29.9	32.2	18.4	15.7	20.9	15.6	10.5
53922f	42.9	33.4	33.2	32.9	32.9	34.7	32.5	33.9	33.4	31.8	32.2	33.6	33.0	11.0
114403	42.2	32.9	32.6	32.1	32.2	34.1	32.0	33.6	32.2	31.3	31.6	31.7	31.9	10.6
52757e	42.1	33.0	33.0	32.8	32.1	33.7	31.6	34.5	32.3	32.4	32.1	33.0	31.9	10.8
acff94	41.9	10.4	10.2	9.2	9.3	10.0	10.4	10.2	10.0	10.2	9.5	9.3	9.4	10.5
67e9e5	41.8	33.5	33.7	32.7	33.3	34.8	32.6	33.6	33.1	32.8	33.5	33.6	32.7	10.5
1e7b4b	42.5	33.4	34.7	33.1	33.3	34.3	33.4	33.8	33.1	32.7	32.7	33.0	32.7	10.7
b3fdbc	42.4	10.3	10.3	9.3	10.1	9.9	10.4	10.3	10.1	10.2	9.7	9.9	9.6	10.4
66825d	42.8	33.8	33.9	33.8	33.0	34.9	32.9	33.4	33.0	32.2	33.6	33.3	33.3	10.7
3ba701	41.7	34.2	34.0	34.3	33.1	25.5	33.9	34.7	33.8	31.7	21.2	24.1	20.3	11.0
b90efa	42.2	10.3	10.2	9.7	9.8	9.9	10.0	10.2	9.6	10.1	9.6	9.6	9.5	10.5
e917d7	42.4	34.8	34.0	33.7	35.0	35.0	33.3	35.0	34.2	33.3	33.3	33.8	33.8	10.6
c5c681	42.7	34.7	35.2	34.5	33.5	26.2	33.6	35.3	33.8	32.7	21.6	24.1	20.8	10.3
dfc0d8	43.0	35.2	33.8	33.3	33.4	35.9	33.3	35.2	33.3	32.5	33.3	34.0	34.4	10.3
f871b0	41.7	34.8	33.9	34.0	34.0	35.0	33.6	34.3	33.2	32.5	33.4	34.3	33.2	10.8
a7e167	42.4	11.1	10.5	10.1	10.5	11.0	12.0	11.1	11.1	10.6	10.4	11.1	10.4	11.5
5f98d6	42.2	9.8	10.4	9.9	9.8	10.0	10.4	9.8	10.0	10.4	10.1	9.9	9.7	10.8
a0aead	41.8	34.7	35.8	34.3	33.7	25.7	34.5	35.5	34.0	32.7	22.6	24.4	20.9	11.0
e9b136	42.8	10.6	10.9	9.6	10.5	10.9	10.8	11.2	10.6	11.3	10.0	10.5	10.3	10.9
b72a1f	42.4	36.1	35.9	35.9	35.0	37.2	34.5	36.4	35.7	34.8	35.5	36.1	35.3	11.0
6a4ee6	42.6	37.0	36.6	35.8	36.8	36.8	35.8	36.9	35.2	34.6	35.6	36.8	35.2	10.5
f4a109	42.4	35.8	36.5	35.0	34.8	37.0	34.3	36.1	35.1	34.0	35.3	37.6	35.0	10.8
8429e5	42.9	36.7	36.2	33.0	32.3	24.8	35.3	34.0	35.7	32.1	21.2	23.3	20.0	11.2
124fd3	42.0	10.2	10.6	9.7	9.9	10.0	10.6	10.2	10.3	10.1	10.4	10.2	9.9	11.1
ac9b98	42.0	36.5	36.4	34.1	32.5	24.8	35.8	33.9	35.5	31.3	21.6	23.9	19.8	10.5
adacfb	42.3	11.5	10.8	10.0	10.3	10.3	10.8	10.6	9.9	10.4	9.9	9.9	10.3	10.7
d4a2c3	43.0	45.2	46.1	45.8	44.5	47.8	45.6	47.5	47.0	44.6	45.1	46.2	46.6	11.1
638153	42.5	36.6	36.9	36.8	36.1	38.0	34.9	36.2	35.4	34.5	35.5	36.2	35.7	11.2
5a3cb2	42.1	36.4	37.5	34.1	32.5	25.3	35.1	34.9	36.3	31.8	22.2	23.9	19.5	11.0
e98903	42.9	10.3	10.9	10.2	9.8	10.6	11.0	11.0	10.1	9.9	10.8	11.1	10.4	11.0
b65434	43.4	10.3	10.8	9.7	10.0	10.6	10.8	10.8	10.1	10.9	9.8	10.4	10.1	11.2
8213a1	43.4	37.1	36.8	35.9	35.8	37.8	35.1	36.8	35.7	34.9	36.4	35.8	35.7	11.1
75ab8c	43.1	10.8	10.6	10.0	10.0	10.9	10.4	10.5	10.0	10.6	10.2	10.3	10.0	10.6
ed9d0a	42.8	36.7	36.1	36.3	36.0	37.0	35.1	36.2	36.0	34.6	36.0	35.7	35.6	10.9
e2f678	43.2	37.6	37.8	37.5	36.7	39.6	35.5	36.7	36.6	35.3	36.8	37.0	36.3	11.0
12559d	42.3	43.9	44.4	42.9	42.8	45.9	42.3	44.5	42.6	41.8	43.2	42.0	42.0	10.8
804e5d	43.3	43.8	43.1	39.8	37.7	30.8	40.6	41.0	42.3	37.0	27.1	29.3	26.0	10.8
bdcb70	42.9	42.1	41.9	39.2	24.4	30.4	40.4	39.8	40.5	23.6	21.5	28.0	20.3	10.6
87dcb3	42.0	15.3	15.5	14.1	15.1	15.1	15.5	15.7	15.1	14.9	14.8	15.3	14.3	11.1
52a03c	42.6	42.0	41.8	39.0	23.2	29.0	40.2	39.5	40.1	24.3	20.7	28.3	21.0	10.9
c13ba8	42.3	42.6	41.6	39.1	23.4	30.3	41.0	40.5	40.8	23.5	21.8	28.2	20.8	10.8
872d99	42.3	42.6	41.7	38.9	23.5	29.8	40.6	39.4	40.4	24.0	21.6	28.1	21.4	10.5
sum	2081.0	1442.9	1431.4	1386.9	1296.3	1293.4	1398.5	1428.3	1398.8	1276.3	1169.6	1236.6	1149.3	529.2
mean	42.5	29.4	29.2	28.3	26.5	26.4	28.5	29.1	28.5	26.0	23.9	25.2	23.5	10.8

TABLE VIII: Outcomes of RPS (rps) compile-testing time

	1					2	- 11	21		21	2	2.1	2.1	
sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
6b89cd	31.8	23.6	22.3	23.0	23.2	22.1	13.0	13.3	13.0	12.5	21.9	12.6	13.5	5.7
fe6edd	30.4	18.2	17.3	17.9	18.6	16.9	11.8	11.4	10.9	10.6	17.5	10.8	11.3	5.7
8e9ce9	30.9	32.1	30.7	31.6	31.9	31.1	32.1	32.5	31.3	30.7	31.2	30.5	32.3	5.6
4006c1	31.3	31.7	31.8	30.4	31.9	31.0	30.9	32.5	32.1	31.8	31.8	30.5	32.1	5.8
e5e4ee	31.4	23.0	21.4	22.7	22.5	21.5	12.6	13.1	12.5	12.3	21.7	12.5	12.6	5.8
4dd5fd	31.3	32.6	32.4	31.9	31.7	30.7	31.4	31.9	31.6	31.3	32.2	30.1	32.2	5.7
0ef7e5	32.1	9.8	9.3	9.3	9.1	8.5	9.7	9.4	9.0	8.8	9.0	8.7	9.7	5.6
cc5a56	31.3	32.5	31.5	31.6	32.6	31.1	31.8	32.0	32.4	30.0	31.7	30.9	32.0	5.8
49c254	33.6	33.7	33.3	32.5	33.6	32.3	32.8	32.6	32.8	32.2	33.0	31.5	33.7	5.7
ebbc46	31.8	33.3	34.0	32.7	33.2	32.7	33.4	33.3	32.9	32.1	33.4	31.3	34.6	6.1
762247	36.9	28.4	27.1	27.1	27.6	27.2	13.4	13.4	13.6	12.9	26.4	13.2	13.6	6.2
99aed6	38.3	27.0	27.1	26.4	27.3	25.5	13.7	13.1	12.4	12.2	26.0	12.7	13.6	5.9
2678c3	38.8	40.0	37.8	38.0	39.0	36.2	38.1	39.3	37.2	36.6	39.2	38.0	38.7	6.3
acf6ae	37.9	38.3	37.6	38.0	38.3	35.9	37.6	38.7	37.5	37.2	39.2	39.1	39.7	6.1
7d31b5	38.8	29.0	27.9	28.5	29.2	26.5	13.3	13.6	13.1	12.8	26.9	12.7	12.9	6.3
3f1f22	37.9	40.5	39.8	38.1	38.5	36.3	38.3	40.1	37.6	37.6	38.3	37.1	39.8	6.5
0f4e55	37.4	5.0	5.1	4.6	4.9	4.6	4.8	5.0	4.6	4.8	4.7	4.7	4.9	6.1
20f6d4	39.8	28.3	27.3	27.9	28.0	25.0	13.2	13.5	12.3	12.5	25.7	11.5	12.2	6.2
6b3290	37.7	29.3	28.5	28.7	28.3	27.2	13.9	13.9	12.9	13.1	26.7	13.1	13.4	6.2
9ec074	38.9	29.8	28.5	27.8	27.9	27.1	14.3	14.0	13.4	13.5	26.8	12.9	13.2	6.2
38f6d0	38.0	29.3	28.0	28.0	27.2	28.0	13.7	13.7	13.6	13.0	26.2	12.4	13.1	6.2
ac382a	38.7	4.9	4.8	4.6	5.2	4.8	4.9	5.0	4.8	4.4	4.9	4.5	5.0	6.0
dd93c0	39.4	4.9	5.2	4.9	4.9	4.5	4.8	4.9	4.8	4.8	4.9	4.7	4.9	6.3
d34c5c	37.9	24.4	23.1	23.4	22.1	22.0	12.6	12.6	12.0	11.5	21.8	11.9	11.9	6.3
f04802	38.0	28.1	26.5	26.7	10.2	25.5	12.8	13.4	12.4	9.1	9.9	11.5	10.0	6.3
b3d432	38.5 38.4	28.8	27.0	27.0	10.7	25.7	14.1	13.6	12.9	10.0	10.5 6.0	12.2	11.8	6.1
e95757	I	6.1 30.0	6.1	5.8 29.1	6.0 29.4	5.1	5.4 15.1	5.8	5.8 13.9	5.6	27.5	5.6	5.7	6.1
b4eaa9 ffc732	39.3	5.9	29.1 5.9			27.7 5.6		14.4	5.5	14.0	5.4	13.1 5.4	13.9 6.0	6.5
b867b4	38.7 39.5	5.6	5.9	6.1 6.2	5.8 5.9	5.5	6.3 6.0	6.0 5.9	5.8	5.7 5.7	5.8	5.5	5.8	6.4 6.3
90f7d6	38.1	6.3	6.0	6.2	6.2	5.7	6.4	6.2	6.4	5.5	6.0	5.9	6.6	6.6
2a47a5	38.8	6.5	6.1	6.4	6.4	5.9	6.0	6.8	6.3	6.1	6.2	5.6	6.6	6.3
cd2c0a	39.0	30.0	29.1	27.3	28.8	26.2	14.7	14.4	14.2	13.1	27.7	13.4	14.1	6.6
80a9ee	40.3	30.4	28.7	29.1	30.4	28.1	15.0	14.6	14.2	13.7	29.4	13.4	14.6	6.4
95e749	39.8	43.2	41.8	40.7	42.0	39.9	42.2	42.9	40.6	39.8	40.8	39.6	41.6	6.4
a959de	40.8	31.9	30.6	30.9	32.0	29.6	15.1	15.1	14.7	14.2	31.0	14.2	15.8	7.1
1f8424	39.7	31.0	30.3	30.4	29.5	29.7	14.8	14.3	14.2	13.6	28.4	13.3	14.1	6.6
cb6486	41.0	42.5	41.2	42.3	41.5	39.4	40.9	41.1	41.1	40.1	40.6	40.2	43.6	6.4
c46b1b	39.7	42.1	42.7	42.0	43.8	40.1	42.4	42.3	40.8	40.7	41.2	40.9	44.2	6.5
bcad50	40.1	43.9	41.1	41.0	42.1	40.2	41.2	42.9	41.2	39.8	40.6	39.3	42.8	6.1
620d23	39.6	41.3	40.5	41.4	43.0	40.4	41.8	42.3	40.8	39.9	40.6	40.4	42.4	6.3
626025	41.5	41.8	41.9	41.7	41.2	40.3	43.2	42.3	42.0	39.6	40.9	39.6	43.0	6.7
3b9095	39.6	42.8	42.3	41.1	42.0	41.0	41.7	41.4	40.7	39.9	41.4	39.3	42.4	6.1
fd1e44	40.5	30.6	30.3	30.2	30.7	28.6	14.5	15.2	14.5	13.1	28.2	13.4	13.3	6.6
1fee4c	40.4	6.1	5.9	6.1	6.2	5.9	6.4	5.8	5.8	5.3	5.8	5.8	6.3	6.6
b748f6	40.1	43.4	41.9	41.8	42.4	41.4	41.6	42.9	41.7	40.4	41.1	40.1	41.8	6.5
115014	40.5	42.7	41.8	41.7	43.4	41.4	43.4	42.1	41.4	40.8	42.2	40.4	44.2	6.5
5dc482	39.7	31.6	30.1	29.0	30.7	27.8	14.6	14.6	14.2	13.4	29.7	13.0	14.1	6.7
1148d3	40.6	6.7	6.3	6.3	6.9	6.5	6.9	6.7	6.2	6.3	6.6	6.2	6.6	6.8
sum	1844.4	1329.1	1290.7	1286.1	1274.0	1241.8	1028.3	1035.7	1005.8	974.8	1234.6	975.1	1031.9	305.7
mean	37.6	27.1	26.3	26.2	26.0	25.3	21.0	21.1	20.5	19.9	25.2	19.9	21.1	6.2

TABLE IX: Outcomes of RPS (rps) zt-exec time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
c58216	26.0	17.7	18.2	19.2	17.8	18.9	17.4	17.0	16.6	16.7	17.4	17.5	16.9	13.1
c5b972	25.5	23.6	25.3	24.5	23.8	25.2	18.4	18.6	17.8	18.5	23.7	18.5	18.2	13.2
e8609f	25.4	3.2	3.5	3.3	3.4	3.4	3.4	3.4	3.5	3.3	3.4	3.5	3.4	13.1
d964c0	25.9	24.0	25.5	25.2	24.3	24.7	18.7	17.9	17.6	18.5	23.9	18.2	18.4	13.3
d6766d	28.0	26.3	27.5	27.4	25.5	26.8	20.7	20.2	19.6	19.5	25.7	20.8	20.4	15.3
46c33c	28.0	26.1	27.4	27.5	25.5	27.1	20.2	20.3	20.0	19.8	25.8	20.8	19.9	14.9
fa782b	28.5	25.7	26.4	27.1	22.9	26.2	20.1	20.5	19.2	18.7	22.5	19.8	19.0	15.8
28ceb1	28.5	25.9	27.0	27.8	25.7	27.1	20.6	20.3	19.7	19.8	25.9	20.3	20.5	15.3
eebd89	28.6	25.5	26.6	27.0	25.5	26.9	20.2	20.4	19.7	19.5	25.2	20.5	19.9	15.2
7a7a4b	28.5	25.5	27.0	27.5	25.5	26.4	20.1	20.3	19.6	19.4	26.4	20.1	20.0	15.2
8ff8fa	28.3	25.5	27.2	27.7	25.7	26.9	20.4	20.1	19.7	19.9	25.9	20.6	21.0	15.3
a47b4c	28.6	25.5	26.4	28.1	25.7	26.5	20.2	20.0	19.4	19.6	25.7	20.4	20.5	15.2
0a5f14	28.0	3.2	3.5	3.3	3.0	3.3	3.4	3.1	3.1	3.1	3.1	3.3	3.3	15.0
6bdce0	28.2	26.7	28.6	29.0	26.6	28.0	20.7	20.4	19.5	19.9	26.5	20.7	21.1	15.1
sum	386.0	304.1	320.0	324.6	300.9	317.4	244.5	242.7	234.9	236.1	301.2	244.9	242.6	204.9
mean	27.6	21.7	22.9	23.2	21.5	22.7	17.5	17.3	16.8	16.9	21.5	17.5	17.3	14.6

TABLE X: Outcomes of RPS (rps) java-configuration-impl time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
cd27a2	19.6	3.6	3.5	3.6	3.5	3.6	3.4	3.7	3.3	3.4	3.5	3.4	3.4	3.2
cd1a4d	20.1	8.9	8.0	8.8	8.9	8.7	7.1	6.8	6.7	7.0	8.3	6.7	7.0	3.3
26bb9f	20.6	7.7	7.6	7.9	7.8	7.8	6.0	5.8	6.0	6.3	8.0	6.4	6.2	3.3
becbb1	20.3	7.7	7.4	7.5	5.9	7.6	6.5	5.9	5.8	5.9	5.8	6.0	5.9	3.3
e61648	21.2	21.8	22.1	21.5	21.8	21.7	21.4	21.8	21.5	22.2	21.5	21.8	21.6	3.3
97a683	21.0	8.1	7.8	8.1	6.0	8.1	6.1	6.3	5.7	6.3	5.8	6.1	5.8	3.5
08363d	21.0	8.5	7.8	8.0	8.0	7.9	6.2	6.1	5.9	6.5	7.6	6.6	6.2	3.6
cee296	20.9	3.4	3.4	3.5	3.4	3.5	3.3	3.4	3.3	3.5	3.3	3.8	3.6	3.4
5ba64c	21.0	6.2	5.8	6.1	6.2	6.1	5.6	5.9	5.9	5.7	6.1	6.0	6.0	3.3
67efdf	21.3	6.1	5.7	6.1	6.0	6.2	5.6	5.7	6.2	6.2	6.0	6.1	5.9	3.4
866f72	21.2	6.4	6.0	6.3	6.3	6.2	6.1	6.1	6.3	6.3	6.3	6.7	6.2	3.5
00a783	21.2	6.2	6.0	6.4	6.3	6.2	6.3	6.5	5.7	6.4	6.3	6.0	6.1	3.5
b99f46	22.7	11.4	10.9	12.1	11.5	11.5	7.1	7.2	6.9	7.6	11.1	7.2	7.0	3.9
470fdf	34.6	34.8	34.7	34.6	33.9	34.5	34.5	34.4	34.3	34.3	34.6	34.4	34.2	4.4
26cd1e	35.0	14.4	13.2	14.5	7.1	14.2	8.0	8.0	7.2	7.0	7.3	7.7	7.1	4.3
459f7b	35.0	14.6	14.1	14.1	7.4	14.7	7.9	7.8	8.0	7.4	7.1	8.0	6.9	4.6
ef6525	33.2	14.7	14.1	14.4	7.5	14.3	8.1	8.1	7.5	7.2	7.3	7.9	7.1	4.3
b68766	34.5	4.3	3.8	4.2	4.4	4.2	4.0	4.1	3.9	4.2	4.2	4.3	4.2	4.4
88ada8	33.6	14.1	13.9	14.1	14.1	14.6	7.7	7.9	8.0	8.4	14.1	8.1	8.2	4.3
bd8bf4	36.6	38.5	37.3	37.4	37.5	38.3	37.9	37.5	37.5	38.6	38.2	38.0	37.4	4.4
39fe0a	36.3	15.4	14.4	7.1	7.2	7.3	7.7	7.1	7.2	7.4	6.9	7.2	7.1	4.6
7d7c4e	37.8	27.5	27.0	27.1	27.9	27.3	9.1	8.8	8.7	9.4	27.9	9.2	8.7	4.3
ed86d0	40.3	4.2	4.1	4.3	4.2	4.1	4.0	4.0	3.9	4.3	3.9	4.2	4.0	4.7
sum	629.2	288.4	278.7	277.5	252.6	278.7	219.7	218.9	215.5	221.6	251.5	221.6	215.7	88.9
mean	27.4	12.5	12.1	12.1	11.0	12.1	9.6	9.5	9.4	9.6	10.9	9.6	9.4	3.9

TABLE XI: Outcomes of RPS (rps) embedded-jmxtrans time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
1b2955	27.0	25.0	24.8	25.4	24.6	24.4	10.4	10.6	11.3	10.5	24.9	10.7	10.4	2.9
ef88f3	27.2	23.3	24.0	23.0	23.0	22.0	9.4	9.7	9.8	9.2	22.0	9.0	9.3	3.0
64e65a	26.6	23.6	23.0	24.2	17.4	23.1	10.4	10.4	9.6	9.1	16.2	9.6	8.1	3.2
51e075	26.9	3.7	3.6	3.9	3.7	3.6	3.8	3.9	3.7	4.2	3.9	3.6	3.8	3.0
5bffe4	27.4	23.6	23.2	22.8	22.4	21.9	9.2	9.3	9.4	9.4	22.2	9.2	9.5	3.3
59e1a4	27.0	23.4	23.1	23.1	21.9	22.3	9.5	9.7	9.7	9.4	21.8	9.4	9.1	2.9
bf18d2	27.3	23.6	23.0	22.8	21.9	22.0	9.4	9.6	9.7	9.5	21.6	9.0	9.3	3.0
62c71b	46.3	45.6	45.8	45.2	44.7	45.5	44.9	45.9	44.7	44.9	45.0	45.0	45.0	3.8
e4a4c2	45.0	36.5	36.1	36.0	30.5	35.8	9.3	9.7	38.8	8.8	29.4	38.6	7.3	3.3
345190	45.9	38.5	38.6	36.2	36.5	36.5	9.9	10.1	9.9	9.6	36.3	9.0	9.6	3.3
a672b6	45.0	36.6	35.6	35.6	30.5	35.4	9.6	9.8	9.0	9.2	30.2	8.7	6.9	3.4
4f713f	45.8	38.8	38.6	36.0	36.3	36.3	9.5	10.2	9.8	9.5	36.6	9.2	9.1	3.2
78bb73	45.4	36.3	36.1	35.7	30.7	35.1	9.2	9.6	38.8	8.9	29.7	39.0	7.5	3.2
4bea3b	45.0	38.8	38.8	37.0	36.2	36.6	9.4	9.8	10.1	10.1	36.5	9.2	9.7	3.3
1f8b32	45.4	37.0	35.8	35.9	21.6	34.8	9.4	9.6	38.6	8.3	20.8	38.1	7.2	3.4
616624	45.2	36.1	35.3	35.1	21.4	34.9	9.6	9.8	38.3	8.6	20.3	38.0	7.6	3.3
656e0c	45.2	39.3	38.1	36.5	36.3	36.5	9.9	10.0	10.0	9.5	36.1	9.6	8.8	3.3
d5a3ad	45.1	37.5	36.7	37.0	25.3	36.6	9.4	9.9	38.7	8.4	24.2	38.6	7.0	3.2
dc83d7	45.8	3.5	3.5	3.3	3.4	3.6	3.4	3.4	3.4	3.6	3.5	3.5	3.6	3.4
865ea1	44.3	37.0	37.2	35.8	33.9	36.5	9.9	9.6	9.2	9.4	33.0	8.6	7.9	3.2
6e849a	47.0	36.3	35.9	35.8	30.6	35.3	9.5	10.1	9.1	9.3	29.6	8.5	7.2	3.2
8f848b	45.9	37.9	37.2	36.9	36.5	36.8	9.7	10.3	9.7	10.3	35.8	9.3	8.2	3.1
e373b6	45.4	46.2	45.5	44.4	45.0	45.2	45.9	45.4	44.8	45.5	44.8	45.4	45.2	3.3
531f04	46.1	39.5	38.9	37.5	37.5	38.0	10.0	10.3	10.3	10.2	37.3	9.8	10.0	3.2
4d8cc3	44.8	41.9	42.0	40.6	39.0	39.7	10.7	10.5	10.2	10.2	37.7	9.1	8.0	3.4
6d7f22	45.7	41.6	41.8	38.5	38.2	38.4	10.5	10.1	10.7	10.1	38.8	9.7	9.7	3.4
a1a71d	45.1	3.9	3.7	3.5	3.7	3.5	3.6	3.7	3.7	3.5	3.4	3.5	3.7	3.4
d7f390	44.4	44.4	40.4	39.7	37.0	39.7	10.3	10.2	9.0	10.4	35.3	8.8	7.8	3.5
7afbce	45.1	3.9	3.9	3.5	3.7	3.4	3.4	3.8	3.6	3.8	3.6	3.5	3.6	3.4
3474fc	48.2	47.8	47.2	45.9	46.9	46.9	46.6	47.0	46.8	47.3	46.4	46.2	47.3	3.3
0ad3b2 12d9ed	48.2 47.9	48.5 39.1	48.1 37.2	47.1 38.4	48.1 36.5	47.7 37.5	47.0	48.6 11.9	48.8	47.4	47.1 35.4	47.6 9.4	47.3 8.4	3.7
8580ef	47.9	39.1	37.4	38.4	36.7	37.3	11.2 11.5	11.9	10.2 10.3	11.7 11.3	35.4	9.4	8.2	3.6 3.6
dc18de	49.6	48.7	47.3	48.0	48.0	47.5	48.4	47.9	48.6	48.4	48.2	48.2	47.8	3.6
ee17a6	48.0	42.8	40.6	41.3	38.8	39.8	11.8	12.1	9.6	11.8	36.1	9.1	7.9	3.6
a54258	47.7	42.6	40.0	41.9	25.1	39.8	11.6	11.8	9.0	10.3	22.9	9.1	7.9	3.5
89df2c	48.4	38.8	37.6	38.8	35.3	37.7	11.4	11.5	39.7	11.4	31.5	39.3	7.4	3.8
b81845	48.7	43.0	40.5	43.3	39.2	40.0	11.7	12.7	39.6	11.3	36.4	39.3	7.8	3.4
53a984	48.8	39.2	37.9	38.5	34.9	37.0	11.5	12.1	39.7	11.1	31.9	39.4	7.9	3.7
11c7de	47.6	38.7	37.5	38.1	34.2	36.8	11.4	11.9	39.7	11.4	31.8	39.1	7.8	3.6
1ed452	47.7	45.8	45.4	40.4	40.5	40.8	12.3	12.2	12.5	11.9	39.8	11.6	11.9	3.5
48412f	48.2	44.7	43.8	40.3	40.7	40.9	12.3	12.4	12.5	11.9	40.1	11.7	11.8	3.6
bfd614	49.0	45.0	43.8	42.1	41.3	41.8	12.3	12.2	12.1	12.1	39.8	10.9	10.6	3.7
bfb812	48.4	48.2	47.1	46.9	47.5	47.2	47.0	47.5	47.4	48.4	47.2	47.4	48.6	3.6
93e572	48.4	42.3	39.7	41.5	37.9	39.9	12.2	12.5	9.5	11.8	35.2	9.7	7.9	3.7
fb570a	48.5	4.1	3.9	3.6	3.7	3.7	3.9	4.1	4.1	3.7	3.8	3.9	3.9	3.7
f11867	50.3	46.8	46.0	45.1	44.4	44.8	14.8	15.1	14.7	19.4	42.6	13.8	13.0	10.2
fc4ca5	50.2	44.8	42.2	44.0	27.7	42.5	14.0	14.4	11.3	12.0	25.8	11.6	9.6	10.2
4f1ce2	64.6	62.5	61.9	61.8	62.1	61.7	34.7	39.2	34.4	33.6	61.5	38.7	38.3	25.2
sum	2174.5	1756.3	1715.5	1696.2	1563.1	1675.0	726.9	744.1	974.5	722.1	1519.3	958.9	660.5	201.1
mean	44.4	35.8	35.0	34.6	31.9	34.2	14.8	15.2	19.9	14.7	31.0	19.6	13.5	4.1

TABLE XII: Outcomes of RPS (rps) jgroups-aws time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
e7896f	1.8	2.3	2.3	2.3	2.2	2.4	2.2	2.3	2.4	2.3	2.1	2.3	2.5	1.8
4b32fa	2.0	3.7	3.5	3.8	3.9	3.5	3.5	3.6	3.5	3.6	3.6	3.9	3.7	1.9
bcf770	1.9	2.3	2.4	2.4	2.3	2.4	2.3	2.4	2.4	2.5	2.2	2.3	2.4	1.9
0c4990	2.0	7.2	6.8	7.7	6.8	7.3	6.8	7.2	6.9	7.2	7.0	6.6	7.2	1.8
c5e9f0	1.9	5.4	4.9	5.5	5.1	5.1	4.9	5.2	4.9	5.1	4.7	4.9	5.3	1.9
83fa1c	25.9	26.5	26.3	26.6	25.6	25.8	25.3	25.4	25.8	26.4	25.5	26.0	26.3	3.4
83da98	25.2	3.4	3.1	3.4	3.3	3.4	3.1	3.3	3.3	3.4	3.3	3.1	3.3	2.9
f70cbf	29.0	29.6	29.1	30.3	29.6	29.6	29.5	29.7	29.5	29.3	29.4	29.9	30.4	3.2
1091a4	29.7	24.3	24.3	24.3	24.6	24.2	7.7	8.2	7.9	7.8	23.6	7.8	8.2	3.0
b3f243	26.3	26.0	25.1	26.3	25.7	25.9	25.0	25.6	25.5	24.9	24.8	25.8	26.2	3.0
741c3d	53.8	52.6	50.7	53.0	49.8	51.5	51.3	51.7	51.5	50.4	50.9	51.6	52.3	3.6
2ac9b9	52.5	3.5	3.8	3.6	3.5	3.5	3.5	3.4	3.6	3.6	3.4	3.6	3.8	3.5
480443	53.6	3.7	3.6	3.5	3.8	3.4	3.6	3.7	3.5	3.6	3.6	3.7	3.5	3.4
771d8f	52.4	12.5	12.4	13.2	12.4	13.0	7.4	7.9	7.6	7.3	12.1	7.5	7.6	3.5
1388b8	52.6	12.8	12.2	12.2	12.5	12.4	6.7	6.8	7.0	6.9	11.3	7.0	7.3	3.6
a90a3e	53.8	12.6	12.3	12.8	11.5	12.0	7.0	7.3	7.4	7.1	10.7	7.1	7.0	3.5
sum	464.5	228.4	223.1	231.1	222.7	225.5	190.0	193.6	192.8	191.4	218.3	193.2	196.8	45.9
mean	29.0	14.3	13.9	14.4	13.9	14.1	11.9	12.1	12.1	12.0	13.6	12.1	12.3	2.9

TABLE XIII: Outcomes of RPS (rps) datasketches-java time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
e2fb43	-89.4	-82.1	-53.6	-80.8	-77.7	-53.2	-81.7	-77.5	-54.7	-80.6	-56.2	-57.2	-56.2	-41.9
1ba334	-88.1	-82.3	-51.6	-80.7	-74.9	-52.1	-81.3	-79.0	-56.1	-81.1	-54.3	-54.6	-55.5	-43.2
1436f3	-86.6	-80.6	-62.8	-80.9	-78.6	-62.3	-81.9	-76.3	-64.8	-82.3	-63.9	-63.7	-64.3	-42.4
ad19fb	85.2	54.0	52.6	54.9	50.3	53.7	54.6	53.8	55.4	54.7	56.6	55.6	54.7	42.1
843c40	87.4	22.1	20.6	21.6	20.9	20.7	21.6	20.1	21.7	21.7	21.9	21.8	21.7	43.5
4a8281	-88.2	-81.6	-63.1	-78.5	-76.1	-62.6	-81.3	-79.3	-64.8	-84.9	-65.5	-65.8	-65.7	-41.5
856926	-87.8	-88.1	-55.5	-90.0	-83.3	-56.4	-84.7	-83.9	-58.1	-86.8	-57.7	-58.7	-57.0	-42.9
1cc496	-88.7	-91.1	-54.0	-83.7	-77.6	-57.1	-84.6	-85.5	-58.9	-79.2	-54.3	-56.8	-54.2	-43.1
4ede21	-89.9	-87.6	-54.2	-86.8	-82.3	-55.8	-85.3	-81.8	-57.3	-85.8	-57.4	-56.9	-56.8	-41.9
851ec9	-89.8	-82.7	-63.6	-80.9	-75.4	-62.7	-82.2	-80.4	-66.7	-81.7	-65.9	-67.4	-67.2	-42.8
fcc7e1	-87.7	-85.6	-63.6	-83.3	-81.9	-66.3	-85.0	-82.6	-67.7	-84.0	-66.6	-68.4	-69.1	-41.2
75f72c	-85.2	-87.1	-63.0	-82.9	-73.4	-64.9	-86.2	-81.1	-65.4	-80.4	-66.3	-66.4	-63.9	-42.4
b27fff	83.9	85.7	63.0	82.1	79.0	66.5	88.4	79.9	65.0	83.8	64.7	67.8	66.3	39.6
23ae68	84.8	83.0	60.3	81.4	78.6	64.6	83.5	79.5	66.2	83.2	67.4	65.4	65.8	39.8
20a6b0	85.2	81.6	62.2	83.8	80.8	65.0	84.6	80.5	65.0	84.1	67.3	68.9	66.3	40.7
08e0e2	86.5	78.0	49.9	76.6	72.4	51.2	78.8	74.7	52.5	78.4	52.5	53.8	52.2	39.6
f3a611	89.7	83.8	52.2	79.4	74.3	51.4	84.1	79.5	54.5	79.2	52.4	56.4	52.3	40.8
1c524d	86.1	83.5	62.9	84.1	77.6	63.4	84.8	82.6	64.8	85.6	65.7	64.9	64.4	40.3
562887	85.3	22.2	19.8	21.1	20.0	21.2	21.4	20.4	21.8	22.1	21.9	21.9	21.8	40.9
f0d5e1	-75.6	-44.4	-42.3	-45.0	-41.6	-42.4	-44.9	-40.9	-44.7	-45.3	-44.0	-43.6	-44.5	-31.8
cf919f	-75.5	21.4	20.0	21.7	20.3	21.2	21.5	21.0	21.7	21.5	22.0	21.2	21.5	-31.8
70f181	74.2	42.9	40.9	43.2	64.3	41.1	42.9	40.3	42.7	70.0	43.1	42.5	43.1	31.5
e2d8f0	75.8	43.4	41.2	43.7	40.1	41.5	42.9	41.5	44.2	43.1	43.8	43.3	43.1	31.5
91b26c	75.9	43.8	42.0	44.3	40.7	42.6	43.3	41.2	43.8	44.6	44.2	44.4	44.5	30.6
92cc12	-76.0	-43.9	-41.1	-45.2	-41.2	-42.4	-43.6	-43.2	-44.2	-44.7	-43.7	-43.8	-44.1	-31.3
3ca1be	77.2	43.8	40.4	44.4	40.4	41.4	42.8	40.6	43.2	42.7	42.5	43.7	43.1	30.7
55e820	76.0	-44.1	41.3	44.8	40.7	41.8	43.0	41.1	44.0	43.6	43.4	44.1	43.5	31.0
11672b	76.2	43.6	42.2	44.8	40.6	41.5	42.9	41.1	44.4	43.3	43.8	43.9	43.3	31.8
83c11b	75.3	45.0	43.3	46.7	42.4	43.9	45.4	42.8	44.9	45.1	45.2	44.6	44.9	31.6
d93a6b	76.2	44.1	41.1	45.3	41.1	42.0	43.5	42.1	45.0	43.5	44.0	44.0	44.1	30.9
5aba00	-74.4	-43.0	-41.3	-44.9	-40.2	-41.9	-43.5	-41.4	-43.2	-43.2	-43.1	-43.8	-43.4	-31.3
9622f1	-73.8	21.5	20.1	22.5	20.2	20.7	22.2	20.5	21.7	21.6	21.3	21.3	22.2	-31.9
ac0aa6	78.7	43.5	41.6	45.1	42.9	41.8	44.3	42.0	44.1	43.2	44.6	43.6	44.6	31.6
0eda5e	74.7	44.5	41.2	45.3	40.9	43.3	44.6	41.8	44.2	44.2	45.4	43.8	44.4	31.5
6d9e9e	78.4	43.6	42.2	44.7	69.5	42.2	43.4	42.1	43.9	74.9	50.9	43.3	51.2	31.6
42eb24	76.0	44.8	42.2	45.5	42.8	42.9	45.0	42.1	45.4	44.8	44.5	44.6	45.7	32.1
063d1a	74.3	43.7	41.7	45.5	41.7	42.2	44.2	41.6	44.1	44.7	44.1	44.2	43.7	32.1
3a6f18	76.3	46.6	43.7	47.6	43.7	45.0	47.5	43.8	47.7	47.3	46.4	46.5	47.1	33.5
ce9bed	76.5	44.6	41.9	46.7	43.3	43.3	45.9	43.0	45.7	45.6	45.3	45.1	45.0	32.0
045e38	75.6	49.3	46.4	50.3	45.8	48.2	48.9	47.1	49.1	47.9	49.2	48.7	48.9	32.1
85a09d	78.1	43.1	40.3	45.9	40.3	41.5	44.2	41.5	42.4	43.5	43.6	43.8	43.4	32.2
4a82e4	75.3	21.5	20.4	23.1	19.9	21.0	22.1	20.5	21.6	21.5	21.7	21.2	22.0	32.2
e5081d	78.7	21.6	21.1	22.8	20.6	21.1	23.0	20.3	21.9	21.4	22.1	22.5	22.0	32.6
499a44	76.2	43.9	42.0	45.3	41.6	43.4	44.8	42.2	43.8	45.9	44.6	45.3	44.1	31.9
320a3d	74.3	21.5	21.3	22.4	20.6	21.4	23.0	21.1	22.6	21.6	22.1	21.5	21.7	31.6
d6ce71	76.4	45.4	42.7	47.0	42.4	43.7	45.7	42.9	45.6	46.2	44.9	44.6	46.3	34.5
28ec92	78.3	74.1	45.2	79.6	71.2	45.7	75.7	72.3	46.5	76.5	46.8	45.9	45.3	33.0
sum	3785.2	2599.6	2099.4	2606.6	2476.2	2142.2	2600.8	2480.4	2217.5	2641.1	2218.9	2221.2	2216.1	1683.3
mean	80.5	55.3	44.7	55.5	52.7	45.6	55.3	52.8	47.2	56.2	47.2	47.3	47.2	35.8

TABLE XIV: Outcomes of RPS (rps) jbehave-junit-runner time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
989cea	69.6	39.8	38.2	41.1	39.8	40.6	10.9	10.5	10.4	11.0	37.7	10.5	9.3	4.8
989cea 9f8fe5	71.7	39.8 41.1	40.5	42.2	40.3	40.8	10.9	9.8	9.8	10.1	40.8	9.7	9.5	4.8
3c2e58	69.9	41.2	39.4	42.0	38.6	40.8	10.1	10.0	9.5	10.1	37.4	9.9	8.7	4.8
6756fd	71.4	41.1	39.6	42.7	39.3	41.4	10.3	10.0	9.7	10.4	37.4	10.0	8.7	4.8
eafa46	69.0	44.9	44.0	38.2	36.0	36.1	10.2	9.3	9.3	9.9	35.9	8.5	8.2	4.8
15cc3d	71.8	3.6	3.5	3.4	3.3	3.4	3.5	3.3	3.6	3.4	3.3	3.6	3.3	4.8
0be34d	68.5	31.1	29.1	31.7	29.9	29.7	9.7	9.6	8.4	9.8	28.9	8.6	8.1	4.7
c76b75	69.6	45.7	43.5	43.0	40.8	40.9	10.7	10.0	9.9	10.3	39.8	10.4	8.7	4.8
1c33a7	69.6	46.6	44.9	46.9	45.8	46.1	11.1	10.7	11.2	11.2	45.7	11.3	11.3	4.8
63b64b	68.5	68.9	68.4	69.5	67.3	70.3	70.9	68.1	69.9	71.8	68.8	70.7	69.4	5.0
8dc4ee	68.4	44.7	43.2	45.1	39.6	43.6	10.5	10.0	9.5	10.4	39.8	10.5	8.8	4.8
c78e51	68.2	44.9	42.9	45.3	41.4	44.7	10.5	9.8	9.5	9.9	40.3	10.3	9.2	4.7
9c0b8a	70.5	68.8	67.5	70.6	70.2	69.2	70.1	68.5	69.7	70.2	66.5	70.1	67.2	4.8
b68a9c	69.2	7.7	7.5	7.9	7.2	7.6	7.7	7.6	7.3	7.5	7.4	7.8	7.3	4.9
a0d064	69.9	3.2	2.9	3.5	3.1	3.4	3.4	3.1	3.1	3.2	3.2	3.3	3.1	4.7
338958	70.5	45.0	42.9	37.6	36.6	35.8	10.4	9.1	9.5	9.7	34.8	8.4	8.0	4.9
0faec4	70.3	7.4	7.3	7.3	7.4	7.4	7.5	7.4	7.5	7.4	7.2	7.5	7.1	4.7
d43f4f	68.7	69.2	67.3	70.9	66.7	70.7	70.5	68.2	69.7	69.4	67.7	70.6	68.4	4.7
747125	68.9	69.1	67.0	70.0	68.3	70.7	69.8	69.7	67.4	70.5	67.3	70.6	68.1	4.7
d46a70	69.4	68.6	69.8	69.8	69.2	68.8	71.7	68.5	67.6	72.1	68.5	72.2	71.2	4.8
f37f4d	68.8	3.2	3.1	3.0	3.4	3.1	3.1	3.3	3.2	3.0	2.9	3.2	3.3	4.7
72f54c	68.8	44.4	42.9	45.9	40.0	44.8	10.4	10.2	10.0	10.3	39.3	10.1	9.1	4.6
1a9ed5	69.3	72.4	68.6	71.8	70.2	72.1	72.7	68.5	69.1	70.8	68.3	73.4	68.6	4.7
545f67	70.8	46.8	45.1	46.5	45.9	46.6	10.9	10.4	10.8	10.6	45.6	11.0	10.1	4.8
c7bc45	70.3	45.8	43.8	45.9	45.1	45.2	10.1	9.7	9.9	10.1	44.8	10.1	9.6	4.8
f61eec	73.1	71.2	70.1	74.7	70.9	71.8	74.6	72.1	72.9	72.9	69.4	75.0	69.9	4.7
45bb8c	70.5	72.0	69.5	74.9	70.5	71.3	74.7	70.3	71.6	72.8	72.8	73.3	71.5	4.6
25e4c7	71.9	72.0	69.7	74.8	71.4	72.8	71.9	73.1	82.2	74.6	74.0	72.9	70.3	4.9
df7e89	72.2	71.2	72.3	74.0	70.7	72.2	75.1	70.8	70.8	72.8	71.7	75.8	69.9	4.7
678357	70.5	48.1	46.5	48.9	46.9	47.7	10.7	10.1	10.0	10.8	46.7	10.2	9.7	4.6
25d1fe	70.1	48.5	46.8	48.8	41.6	47.6	10.3	10.3	10.0	10.3	40.5	10.4	8.3	4.6
1c1f87	69.6	71.0	69.9	74.0	70.5	71.2	72.0	70.6	69.3	72.6	70.8	72.2	68.6	4.6
ac017b	69.6	47.8	46.7	49.1	46.8	48.2	10.8	9.9	10.2	10.0	46.0	9.9	9.3	4.6
e893ae	69.5	47.8	46.9	48.3	42.0	47.0	10.5	10.0	9.8	10.1	41.4	9.9	8.9	4.5
a2df3c	72.0	70.6	69.6	74.1	70.1	72.8	75.0	70.6	69.6	72.9	70.0	74.7	68.8	4.6
530cf4	75.7	78.0	76.1	77.6	75.8	76.8	77.3	75.9	75.6	79.8	74.4	78.8	75.8	4.7
d037a8	75.0	3.4	3.2	3.3	3.2	3.1	3.3	3.1	3.1	3.1	3.1	3.3	3.0	4.6
7bc0fd	74.9	50.2	48.3	51.9	49.6	50.3	10.3	9.7	10.1	10.2	48.2	10.1	9.5	4.6
69879e	74.8	50.3	47.3	49.9	43.7	48.4	10.3	10.4	9.8	10.6	41.6	10.0	8.6	4.8
f8d201	75.0	49.4	46.8	50.4	32.6	49.3	10.2	10.1	9.7	9.9	31.3	10.0	7.9	4.5
9dbc92	76.6	78.5	75.2	79.7	75.4	77.7	79.4	76.0	76.8	78.6	78.4	79.8	75.9	4.8
4b015a	76.1	50.7	47.8	51.7	50.0	50.6	11.4	10.5	11.2	11.1	48.2	10.7	10.1	5.1
2a2882	76.9	52.2	49.2	51.4	45.8	50.6	10.8	10.3	10.4	10.4	43.4	10.7	9.1	4.9
b18c7d	76.4	3.7	3.3	3.6	3.5	3.5	3.6	3.6	3.7	3.5	3.3	3.7	3.4	4.7
253c76	79.0	51.7	50.1	53.7	51.8	52.6	11.5	11.0	10.7	11.3	50.5	11.1	9.8	4.8
6859e0	76.6	3.6	3.2	3.7	3.6	3.7	3.6	3.3	3.6	3.7	3.5	3.7	3.3	4.9
4b48b2	78.3	3.6	3.3	4.0	3.4	3.6	3.5	3.7	3.5	3.7	3.5	3.9	3.5	4.7
d1321c	79.1	79.5	76.3	79.4	77.2	79.3	80.2	78.6	78.4	79.8	78.9	80.9	77.0	4.8
2c2d55	79.6 3524.8	84.0 2304.2	81.3 2232.6	85.1 2328.9	80.8 2193.1	82.5 2277.8	85.0 1482.9	81.7 1431.2	81.5 1439.9	83.4 1472.2	80.7	84.5 1477.9	79.9 1396.6	4.8
sum mean	3524.8 71.9	47.0	45.6	2328.9 47.5	44.8	46.5	30.3	29.2	29.4	30.0	2171.2 44.3	30.2	28.5	232.3 4.7
ilicali	/1.7	47.0	45.0	1 41.5	44.0	40.5	30.3	47.4	27.4	30.0	44.5	30.2	20.3	4.7

TABLE XV: Outcomes of RPS (rps) commons-lang time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
20de43	66.2	10.1	10.3	11.3	11.2	10.5	10.9	11.1	10.1	10.5	10.5	10.7	10.6	21.1
8dae1f	65.3	48.5	50.6	50.6	52.7	43.1	48.5	48.8	48.5	48.7	43.1	42.3	41.9	22.1
4f9285	66.0	49.0	48.4	49.8	50.7	41.3	48.0	49.5	48.2	48.3	42.0	41.2	41.0	21.6
22c304	65.8	48.9	32.6	49.9	34.2	33.1	48.0	49.9	32.0	32.8	28.0	32.5	28.2	22.0
101227	65.4	49.9	32.3	51.3	33.2	31.7	48.4	49.4	31.9	32.0	27.9	32.6	27.9	21.2
e863dc	65.2	49.4	49.7	50.3	51.9	42.4	48.5	52.0	48.0	47.7	42.4	42.3	41.4	21.4
f7cbda	65.9	49.4	50.8	51.1	51.8	43.0	49.3	49.7	47.8	48.2	42.2	42.3	41.4	21.6
6049e7	65.9	10.0	10.0	10.7	11.1	10.1	10.4	10.7	10.1	10.1	10.4	11.0	10.5	21.9
7d061e	65.8	45.2	31.9	45.9	47.7	31.4	43.6	44.7	29.8	43.1	32.5	30.7	31.2	21.9
bfb43d	66.2	10.3	10.1	11.0	10.6	9.8	10.7	10.7	10.2	10.0	10.1	10.5	10.4	21.5
d8ec01	66.3	54.8	35.8	55.3	56.0	35.9	54.2	55.0	34.8	53.6	34.3	35.6	32.3	21.8
6dfc3e	68.8	49.4	33.6	50.7	29.5	33.6	48.7	49.1	30.8	28.5	27.7	32.4	27.9	-21.5
5fb74a	65.9	9.9	10.2	10.6	10.8	10.5	10.2	11.1	10.2	10.5	10.1	10.7	10.2	21.6
c614fb	65.8	53.8	53.9	55.7	57.1	46.3	53.0	55.0	52.2	53.8	46.8	47.1	46.2	-21.4
0b70b0	67.5	67.8	67.5	68.2	70.2	66.9	67.5	70.5	67.5	68.6	68.5	67.1	68.5	21.5
63f11e	64.6	8.7	8.6	9.1	9.7	8.8	9.1	9.4	8.9	9.0	8.9	9.3	8.5	21.4
f5ebb9	66.3	53.0	53.7	54.6	55.6	45.4	52.2	52.9	51.4	51.6	45.0	46.3	44.8	21.5
e72654	65.7	8.4	8.7	8.5	9.2	8.7	9.0	9.3	8.7	8.7	9.0	8.9	8.7	21.2
d57505	66.0	54.8	54.4	55.8	56.5	46.3	52.3	54.7	51.4	53.1	46.0	45.5	45.8	21.0
sum	1254.7	731.3	653.0	750.5	709.7	598.7	722.2	743.6	632.5	668.8	585.3	598.9	577.5	409.1
mean	66.0	38.5	34.4	39.5	37.4	31.5	38.0	39.1	33.3	35.2	30.8	31.5	30.4	21.5

TABLE XVI: Outcomes of RPS (rps) smartsheet-java-sdk time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
1d2e47	-47.3	-32.0	-31.5	-31.9	-32.4		-23.1	-22.8	-22.6	-22.4	-32.2	-22.5	-22.6	-17.3
509364	-47.2	-32.4	-30.7	-32.1	-32.5		-21.7	-21.5	-20.7	-22.0	-31.9	-21.6	-21.1	-17.5
5c83a1	-47.5	-36.5	-35.7	-36.7	-36.9		-23.4	-23.3	-23.0	-23.2	-36.1	-23.6	-23.3	-17.6
43a4f7	-47.9	-36.2	-34.8	-36.6	-36.3		-23.3	-23.1	-22.5	-23.2	-34.2	-22.5	-21.8	-17.8
240ee7	-47.9	-37.6	-35.9	-37.3	-36.1		-23.9	-23.7	-23.4	-24.0	-34.7	-22.6	-22.0	-18.0
4ea223	-47.9	-41.5	-40.9	-41.6	-42.0		-24.9	-25.2	-25.6	-25.7	-40.7	-25.0	-25.1	-18.3
177fc4	-48.0	-40.7	-39.9	-40.9	-41.1		-24.1	-23.9	-24.1	-23.9	-40.5	-23.8	-24.1	-18.0
2844b0	-49.4	-41.4	-40.3	-41.2	-41.5		-24.6	-24.5	-24.0	-23.8	-40.4	-24.9	-24.1	-18.1
97ecb7	-48.6	-42.0	-41.4	-42.0	-42.4		-25.6	-25.4	-25.5	-25.4	-41.3	-25.4	-25.4	-18.4
94d558	-49.7	-42.0	-40.5	-41.4	-42.0		-25.6	-24.7	-25.1	-24.9	-40.9	-24.3	-25.4	-18.4
de3432	50.3	42.2	40.0	41.6	30.8		25.0	24.7	23.7	23.5	30.2	25.0	22.7	18.5
4bedcb	48.9	4.4	4.1	4.5	4.5		4.4	4.3	4.4	4.4	4.3	4.4	4.6	18.3
ae8ebd	46.3	47.7	46.6	48.2	49.5		47.5	46.4	47.3	45.8	46.1	46.4	47.7	6.4
60de51	45.4	36.5	34.4	36.0	36.9		14.9	14.7	14.1	14.8	34.3	14.3	14.0	6.4
78c50e	46.4	36.2	36.5	37.2	36.9		14.9	14.7	14.5	14.9	35.2	14.4	14.0	6.5
9aa37d	49.1	49.5	48.1	50.4	50.8		48.8	50.0	49.7	49.7	48.9	48.5	48.8	6.8
73be08	49.2	38.5	37.7	40.2	39.6		16.2	16.4	16.3	15.9	37.7	16.1	16.0	6.8
aa7861	49.4	5.5	5.0	5.1	5.1		5.1	4.9	5.2	5.0	4.9	5.3	5.1	6.7
5a20f2	48.4	37.8	36.2	38.0	38.0		14.5	14.8	14.6	14.8	35.5	13.9	14.1	6.6
cbe2f7	50.2	42.2	41.2	42.7	42.8		18.6	18.3	18.9	18.6	41.3	19.3	19.0	7.3
sum	964.9	722.9	701.3	725.5	718.2	0.0	450.0	447.4	445.3	445.8	691.1	443.6	441.0	269.7
mean	48.2	36.1	35.1	36.3	35.9		22.5	22.4	22.3	22.3	34.6	22.2	22.1	13.5

TABLE XVII: Outcomes of RPS (rps) commons-dbcp time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
dba639	-94.7	6.4	6.1	6.1	6.1	6.1	5.6	6.1	5.9	6.3	6.3	6.4	6.2	-52.9
141671	-94.2	6.1	5.6	6.0	5.7	5.7	5.8	5.7	6.1	6.3	6.0	6.1	6.4	-52.7
b19355	-94.1	-93.5	-63.7	-95.7	-92.6	-64.0	-87.8	-90.3	-60.5	-91.0	-62.8	-60.3	-59.6	-52.6
43a618	-94.6	-91.9	-91.3	-95.3	-91.8	-62.7	-87.1	-89.1	-86.6	-89.5	-62.3	-59.6	-59.1	-52.7
4475a0	-93.5	-92.8	-92.7	-94.3	-93.4	-62.9	-87.4	-90.0	-88.0	-89.8	-63.2	-59.8	-59.5	-52.6
43e1ab	-95.1	5.5	5.8	6.1	5.9	6.2	5.8	5.8	6.0	6.5	6.2	6.1	6.2	-53.1
8c0391	-94.6	5.6	5.7	6.1	5.6	5.6	5.4	6.0	5.8	6.4	6.4	6.1	6.3	-52.8
12f80f	-94.8	6.1	5.8	6.1	5.6	5.5	5.7	6.2	6.1	6.0	6.2	6.1	6.6	-53.1
3ba469	-94.6	6.3	6.6	7.2	6.5	6.9	6.3	7.0	6.5	7.0	7.0	6.8	7.2	-53.5
0f656a	-95.1	-57.8	-57.4	-58.6	-57.4	-57.5	-57.5	-58.7	-57.9	-57.7	-57.6	-57.4	-57.4	-53.2
6bcbad	-94.4	-93.7	-93.2	-95.3	-93.9	-64.0	-87.9	-90.3	-88.4	-91.1	-63.9	-60.3	-61.1	-53.0
0b5b1b	-95.1	-94.4	-92.1	-96.1	-93.6	-63.1	-88.3	-90.0	-88.6	-90.8	-63.3	-61.4	-59.7	-53.2
f74029	-94.5	-92.9	-63.6	-90.0	-57.8	-60.7	-87.8	-86.4	-59.9	-57.9	-58.4	-59.2	-57.5	-53.3
8a1c11	-94.0	-94.5	-92.5	-95.7	-93.2	-64.2	-88.3	-91.5	-87.7	-91.4	-62.9	-60.8	-60.4	-53.2
e65434	-94.3	-93.8	-93.5	-95.3	-93.0	-63.9	-88.6	-90.2	-88.8	-91.2	-64.5	-60.5	-61.3	-53.3
861879	-94.8	-93.5	-92.7	-96.4	-92.3	-63.9	-88.2	-90.2	-88.3	-89.5	-63.6	-60.2	-59.3	-53.0
6641cc	-94.7	-93.6	-93.9	-95.5	-93.4	-63.6	-87.9	-90.2	-88.4	-91.0	-63.6	-60.2	-59.7	-52.9
840871	-94.7	-92.8	-93.4	-95.6	-93.3	-64.9	-88.6	-91.0	-88.3	-91.3	-63.8	-60.8	-60.3	-53.1
6a6504	-94.6	-94.1	-93.2	-95.1	-94.2	-63.7	-88.1	-90.0	-89.3	-91.1	-65.2	-60.5	-60.6	-52.8
sum	1796.3	1215.2	1148.9	1236.4	1175.2	855.0	1148.1	1174.7	1097.0	1151.8	853.4	818.7	814.3	1007.1
mean	94.5	64.0	60.5	65.1	61.9	45.0	60.4	61.8	57.7	60.6	44.9	43.1	42.9	53.0

TABLE XVIII: Outcomes of RPS (rps) jnr-posix time

Sha Mop PSI PSI PS2 PS3 PS2c PSII PS2l PS3l PS3c PS2c PS3c PS2c PS3c PS3c	12.3 12.2 12.2 12.2 12.2 12.2 12.5 -2.5 12.4 12.8 12.7 12.6 12.8 12.8 12.9 12.9
bad-016	12.2 12.2 12.2 12.2 12.2 -2.3 12.5 -2.5 12.4 12.8 12.7 12.7 12.6 12.8 12.8 12.9
220614	12.2 12.2 12.2 -2.3 12.5 -2.5 12.4 12.8 12.7 12.6 12.8 12.8 12.9 12.9
28a09c	12.2 12.2 -2.3 12.5 -2.5 12.4 12.8 12.7 12.7 12.6 12.8 12.8 12.9
BOBDE	12.2 -2.3 12.5 -2.5 12.4 12.8 12.7 12.6 12.8 12.8 12.9 12.9
668812 -2.5 -2.4 -2.4 -2.3 -2.4 -2.5 -2.3 -2.4 -2.5 -2.6 -2.2 -2.4 -2.6 -2.3 -2.3 -2.3 -2.3 -2.3 -2.3 -2.6 -2.5 -2.3 -2.3 -2.3 -2.6 -2.5 -2.3 -2.4 -2.5 -2.3 -2.3 -2.6 -2.5 -2.3 -2.6 -2.5 -2.3 -2.6 -2.5 -2.3 -2.6 -2.5 -2.3 -2.4 -2.5 -2.3 -2.3 -2.3 -2.6 -2.5 -2.3 -2.4 -2.5 -2.3 -2.2 -2.6 -2.5 -2.3 -2.4 -2.6 -2.5 -2.3 -2.2 -2.2 -2.5 -2.3 -2.2 -2.2 -2.5 -2.3 -2.2 -2.2 -2.5 -2.3 -2.2 -2.2 -2.2 -2.5 -2.3 -2.2 -2.3 -2.6 -2.5 -2.5 -2.2 -2.2 -2.2 -2.2 -2.5 -2.2 -2.2 <	-2.3 12.5 -2.5 12.4 12.8 12.7 12.7 12.6 12.8 12.9 12.9
6d3956	12.5 -2.5 12.4 12.8 12.7 12.7 12.6 12.8 12.9 12.9
40396a -2.3 -2.2 -2.4 -2.6 -2.3 -2.5 -2.3 -2.3 -2.6 -2.5 -2.3 -2.4 e9358B 143.3 80.9 79.2 83.6 63.4 83.9 31.7 31.4 32.1 31.0 65.5 32.0 25.2 40fa74 160.6 89.5 87.7 89.7 87.6 90.7 33.1 34.2 33.4 35.4 91.5 33.8 33.1 1548fb 155.6 85.5 85.4 88.2 81.5 89.4 32.5 32.4 32.6 33.8 85.1 31.5 26.6 5eed6f 155.8 87.2 85.7 88.7 82.7 88.5 32.8 32.7 32.8 -33.7 82.5 31.8 26.9 dcd57f 171.5 162.6 160.8 166.0 162.7 717.1 161.0 162.5 159.3 167.1 167.7 159.3 160.1 167.7 159.3 160.1 16	-2.5 12.4 12.8 12.7 12.7 12.6 12.8 12.8 12.9
e935f8	12.4 12.8 12.7 12.7 12.6 12.8 12.8 12.9 12.9
40fa74	12.8 12.7 12.7 12.6 12.8 12.8 12.9 12.9
1548fb	12.7 12.7 12.6 12.8 12.8 12.9 12.9
Seed6f 157.1 86.5 84.6 88.1 82.6 88.9 32.5 32.7 32.7 33.6 84.7 31.2 27.1 dcd57f 155.8 87.2 88.7 88.7 82.7 88.5 32.8 32.7 32.8 -33.7 82.5 31.8 26.9 35f3bf 171.5 162.6 160.8 166.0 162.7 171.7 161.0 162.5 159.3 167.1 167.7 159.3 160.1 d4a2ab 170.3 82.7 82.3 84.8 34.6 87.4 31.8 31.8 32.0 22.3 36.5 32.6 19.3 edcead 170.6 161.2 160.3 164.3 163.5 169.3 160.3 159.7 162.3 170.8 170.6 162.7 160.4 8962f9 170.1 90.1 91.3 93.0 95.8 33.6 34.1 34.6 35.7 97.2 34.4 33.5 e3502f 168.3	12.7 12.6 12.8 12.8 12.9 12.9
dcd57f 155.8 87.2 85.7 88.7 82.7 88.5 32.8 32.7 32.8 -33.7 82.5 31.8 26.9 35f3bf 171.5 162.6 160.8 166.0 162.7 171.7 161.0 162.5 159.3 167.1 167.7 159.3 160.1 d4a2ab 170.6 161.2 160.3 164.3 163.5 169.3 160.3 159.7 162.3 170.8 170.6 162.7 160.4 8962f9 170.1 90.1 91.3 94.3 93.0 95.8 33.6 34.1 34.6 35.7 97.2 34.4 33.5 cd4525 170.3 81.4 82.8 87.0 33.6 87.3 31.6 31.9 31.0 22.2 36.1 31.3 19.5 c8502f 168.3 82.6 82.0 86.9 33.8 86.3 31.6 32.5 30.6 22.1 36.4 31.6 19.8 62c6a3 -1.1	12.6 12.8 12.8 12.9 12.9
35f3bf 171.5 162.6 160.8 166.0 162.7 171.7 161.0 162.5 159.3 167.1 167.7 159.3 160.1 4d2ab 170.3 82.7 82.3 84.8 34.6 87.4 31.8 31.8 32.0 22.3 36.5 32.6 19.3 edcead 170.6 161.2 160.3 164.3 163.5 169.3 160.3 159.7 162.3 170.8 170.6 162.7 160.4 8962f9 170.1 90.1 91.3 94.3 93.0 95.8 33.6 34.1 34.6 35.7 97.2 34.4 33.5 cd4525 170.3 81.4 82.8 87.0 33.6 87.3 31.6 31.9 31.0 22.2 36.1 31.3 19.5 e8502f 168.3 82.6 82.0 86.9 33.8 86.3 31.6 32.5 30.6 22.1 36.4 31.6 19.8 62c6a3 -1.1 -1.1 -1.2 -1.1 -1.2 -1.3 -1.2 -1.1 -1.2 -1.3 -1.2 -1.1 f65dff 170.0 160.5 159.0 165.6 163.1 170.0 161.3 160.0 162.4 169.2 172.4 160.4 162.4 0bdc3f 172.1 161.5 160.9 164.4 163.2 170.6 159.5 162.3 165.4 169.0 172.5 161.8 161.2 9b0780 171.9 99.6 100.0 104.8 100.7 106.5 34.9 34.9 34.6 36.3 107.5 35.5 33.4 cf12ff 167.8 160.6 159.2 165.3 163.2 174.1 159.4 163.2 162.0 169.4 173.6 163.9 162.3 a17daf 173.5 170.2 166.1 171.2 174.0 176.1 167.3 169.5 167.4 173.6 176.8 168.8 171.8 71d8d3 179.5 103.2 103.3 111.0 89.1 112.7 35.3 34.9 35.7 34.6 90.1 34.4 28.9 28d0c8 175.0 168.3 166.4 170.9 170.8 175.0 166.4 166.9 168.2 175.1 182.0 171.5 167.0 7be191 -1.1 -1.1 -1.1 -1.1 -1.1 -1.2 -1.1	12.8 12.8 12.9 12.9
d4a2ab 170.3 82.7 82.3 84.8 34.6 87.4 31.8 31.8 32.0 22.3 36.5 32.6 19.3 edcead 170.6 161.2 160.3 164.3 163.5 169.3 160.3 159.7 162.3 170.8 170.6 162.7 160.4 8962f9 170.1 90.1 91.3 94.3 93.0 95.8 33.6 34.1 34.6 35.7 97.2 34.4 33.5 c4525 170.3 81.4 82.8 87.0 33.6 87.3 31.6 31.9 31.0 22.2 36.1 31.3 19.5 e8502f 168.3 82.6 82.0 86.9 33.8 86.3 31.6 32.5 30.6 22.1 36.4 31.6 19.8 62c6a3 -1.1 -1.1 -1.2 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 19.2 41.1 160.0 162.4 169.2 172.4 160.	12.8 12.9 12.9
edcead 170.6 161.2 160.3 164.3 163.5 169.3 160.3 159.7 162.3 170.8 170.6 162.7 160.4 8962P9 170.1 90.1 91.3 94.3 93.0 95.8 33.6 34.1 34.6 35.7 97.2 34.4 33.5 c4525 170.3 81.4 82.8 87.0 33.6 87.3 31.6 31.9 31.0 22.2 36.1 31.3 19.5 c8502f 168.3 82.6 82.0 86.9 33.8 86.3 31.6 32.5 30.6 22.1 36.4 31.6 19.8 6226a3 -1.1 -1.1 -1.2 -1.1 -1.2 -1.1 -1.2 -1.1 -1.2 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 <td>12.9 12.9</td>	12.9 12.9
8962f9 170.1 90.1 91.3 94.3 93.0 95.8 33.6 34.1 34.6 35.7 97.2 34.4 33.5 c4525 170.3 81.4 82.8 87.0 33.6 87.3 31.6 31.9 31.0 22.2 36.1 31.3 19.5 c8502f 168.3 82.6 82.0 86.9 33.8 86.3 31.6 32.5 30.6 22.1 36.4 31.6 19.8 62c6a3 -1.1 -1.1 -1.2 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.1 <t< td=""><td>12.9</td></t<>	12.9
cd4525 170.3 81.4 82.8 87.0 33.6 87.3 31.6 31.9 31.0 22.2 36.1 31.3 19.5 e8502f 168.3 82.6 82.0 86.9 33.8 86.3 31.6 32.5 30.6 22.1 36.4 31.6 19.8 62c6a3 -1.1 -1.2 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.1 -1.1 <	
e8502f 168.3 82.6 82.0 86.9 33.8 86.3 31.6 32.5 30.6 22.1 36.4 31.6 19.8 62c6a3 -1.1 -1.1 -1.2 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.2 -1.1 -1.2 -1.1 -1.2 -1.1 -1.2 -1.1 -1.2 -1.3 -1.2 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.1 -1.2 -1.1 <	
62c6a3 -1.1 -1.1 -1.2 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.2 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.2 -1.3 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 <	13.0
f65dff 170.0 160.5 159.0 165.6 163.1 170.0 161.3 160.0 162.4 169.2 172.4 160.4 162.4 9b0r80 172.1 161.5 160.9 164.4 163.2 170.6 159.5 162.3 165.4 169.0 172.5 161.8 161.2 9b0r80 171.9 99.6 100.0 104.8 100.7 106.5 34.9 34.9 34.6 36.3 107.5 35.5 33.4 cf12ff 167.8 160.6 159.2 165.3 163.2 174.1 159.4 163.2 162.0 169.4 173.6 163.9 162.3 a17daf 173.5 170.2 166.1 171.2 174.0 176.1 167.3 169.5 167.4 173.6 163.9 162.3 7ld8d3 179.5 103.2 103.3 111.0 89.1 112.7 35.3 34.9 35.7 34.6 90.1 34.4 28.9 28d0c8 <td>12.9</td>	12.9
Obde3f 172.1 161.5 160.9 164.4 163.2 170.6 159.5 162.3 165.4 169.0 172.5 161.8 161.2 9b0780 171.9 99.6 100.0 104.8 100.7 106.5 34.9 34.9 34.6 36.3 107.5 35.5 33.4 cf12ff 167.8 160.6 159.2 165.3 163.2 174.1 159.4 163.2 162.0 169.4 173.6 163.9 162.3 a17daf 173.5 170.2 166.1 171.2 174.0 176.1 167.3 169.5 167.4 173.6 176.8 168.9 162.3 7ld8d3 179.5 103.2 103.3 111.0 89.1 112.7 35.3 34.9 35.7 34.6 90.1 34.4 28.9 28d0c8 175.0 168.3 166.4 170.9 170.8 175.0 166.4 166.9 168.2 175.1 182.0 171.5 167.0 <tr< td=""><td>-1.2</td></tr<>	-1.2
9b0780 171.9 99.6 100.0 104.8 100.7 106.5 34.9 34.9 34.6 36.3 107.5 35.5 33.4 cf12ff 167.8 160.6 159.2 165.3 163.2 174.1 159.4 163.2 162.0 169.4 173.6 163.9 162.3 317daf 173.5 170.2 166.1 171.2 174.0 176.1 167.3 169.5 167.4 173.6 176.8 168.8 171.8 71d8d3 179.5 103.2 103.3 111.0 89.1 112.7 35.3 34.9 35.7 34.6 90.1 34.4 28.9 28d0c8 175.0 168.3 166.4 170.9 170.8 175.0 166.4 166.9 168.2 175.1 182.0 171.5 167.0 7be191 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.2 -1.1 -1.1	12.8
cf12ff 167.8 160.6 159.2 165.3 163.2 174.1 159.4 163.2 162.0 169.4 173.6 163.9 162.3 a17daf 173.5 170.2 166.1 171.2 174.0 176.1 167.3 169.5 167.4 173.6 176.8 168.8 171.8 71d8d3 179.5 103.2 103.3 111.0 89.1 112.7 35.3 34.9 35.7 34.6 90.1 34.4 28.9 28d0c8 175.0 168.3 166.4 170.9 170.8 175.0 166.4 166.9 168.2 175.1 182.0 171.5 167.0 7be191 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.2 -1.1 -1.1 -1.1 -1.2 -1.1 -1.1 -1.1 -1.1 -1.2 -1.2 -1.2 -1.2 -1.1 -1.1 -1.1 -1.1 -1.1 -	12.9
a17daf 173.5 170.2 166.1 171.2 174.0 176.1 167.3 169.5 167.4 173.6 176.8 168.8 171.8 71d8d3 179.5 103.2 103.3 111.0 89.1 112.7 35.3 34.9 35.7 34.6 90.1 34.4 28.9 28d0c8 175.0 168.3 166.4 170.9 170.8 175.0 166.4 166.9 168.2 175.1 182.0 171.5 167.0 7be191 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.2 -1.1 -1.1 -1.1 -1.2 -1.1 -1.1 -1.1 -1.2 -1.1 -1.2 -1.2 -1.1	12.8
71d8d3 179.5 103.2 103.3 111.0 89.1 112.7 35.3 34.9 35.7 34.6 90.1 34.4 28.9 28d0c8 175.0 168.3 166.4 170.9 170.8 175.0 166.4 166.9 168.2 175.1 182.0 171.5 167.0 7be191 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.2 -1.1 -1.1 -1.1 -1.2 -1.1 -1.1 -1.1 -1.2 -1.1 -1.2 -1.2 -1.2 -1.1 -1.1 -1.2 -1.1 -1.	13.0
28d0c8 175.0 168.3 166.4 170.9 170.8 175.0 166.4 166.9 168.2 175.1 182.0 171.5 167.0 7be191 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.2 -1.1 -1.1 -1.1 -1.2 -1.1 cccb9b -1.1 -1.1 -1.1 -1.2 -1.2 -1.2 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.1 -1.2 -1.1 -1.2 -1.1 -1.2 -1.1 <td>12.9</td>	12.9
7be191 -1.2 -1.1 -1.2 -1.1 -1.1 -1.1 -1.2 -1.1 <	12.9 12.8
cccb9b -1.1 -1.1 -1.1 -1.2 -1.1 -1.2 -1.2 -1.2 -1.2 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.2 -1.1 -1.2 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 <	-1.1
850f7b 180.4 167.4 168.3 172.1 171.3 175.8 170.6 173.9 172.4 176.1 180.7 171.7 169.7 c5a412 174.1 105.1 104.9 111.1 105.4 111.9 36.5 36.1 36.3 38.7 111.3 36.4 36.0	-1.1
c5a412 174.1 105.1 104.9 111.1 105.4 111.9 36.5 36.1 36.3 38.7 111.3 36.4 36.0	13.2
	13.2
1 /2/160 1854 1006 106 1059 1071 1156 380 1379 385 399 1184 386 371	13.6
bc5484 184.5 110.1 110.5 114.5 89.8 116.3 37.2 37.6 37.6 37.2 92.2 37.6 29.8	13.4
44b67f 186.3 113.2 106.7 112.5 17.4 113.6 35.9 36.5 35.9 18.9 18.1 36.0 18.2	13.9
de7b93	13.6
2537ee 182.8 178.8 176.9 180.4 176.8 188.0 177.1 177.9 178.6 188.3 190.0 180.6 179.3	13.7
744317 185.7 5.4 5.1 5.4 5.2 5.7 5.1 5.2 5.4 5.6 5.5 5.1 5.1	13.4
ce0a9a 184.8 111.6 111.3 115.3 111.6 116.3 37.2 38.6 37.9 40.5 119.2 38.2 38.3	13.9
16bedc 185.7 175.1 178.6 180.6 177.2 194.1 176.5 181.1 179.7 189.4 190.7 179.4 179.1	13.7
46f849 185.4 176.9 176.9 180.9 179.4 189.0 177.8 181.9 177.4 188.3 191.9 179.3 177.6	13.7
21e451 186.3 179.4 177.2 181.7 179.2 187.3 176.8 180.7 177.7 191.8 190.8 181.1 178.4	13.4
1e1024 186.8 180.7 180.6 182.7 182.8 195.5 176.9 181.2 178.5 188.0 192.4 178.6 179.0	13.6
abbc4e 188.5 111.7 113.4 115.5 112.9 118.1 37.9 37.9 38.5 39.4 119.0 38.5 36.9	13.7
c2e2f6 195.7 185.6 186.0 194.2 188.4 196.6 189.7 187.9 186.2 197.3 199.5 189.1 185.8	13.8
7935cb 194.9 121.2 119.5 126.0 98.3 126.5 38.4 36.9 37.9 38.0 99.5 36.7 30.6	
03a4a3 198.9 189.9 186.7 193.7 188.8 198.0 188.8 190.7 191.2 200.3 210.6 193.2 190.4	13.6
73813c -196.1 -123.2 -119.2 -123.6 -50.8 -127.0 -38.0 -38.1 -37.2 -28.6 -51.9 -37.5 -23.7	13.6
99c3b5 -195.3 -121.3 -121.8 -124.8 -124.0 -127.3 -37.0 -37.9 -37.2 -39.9 -128.0 -38.1 -36.7	
ce6e2b -195.3 -119.8 -120.2 -125.0 -50.9 -128.1 -37.7 -38.1 -37.7 -28.3 -51.5 -38.1 -24.1	14.0
sum 7636.2 5116.7 5083.9 5265.1 4615.3 5393.9 3494.2 3530.0 3516.4 3591.7 4852.7 3527.6 3355.8	14.0 -13.8
mean 155.8 104.4 103.8 107.5 94.2 110.1 71.3 72.0 71.8 73.3 99.0 72.0 68.5	14.0 -13.8 -13.7

TABLE XIX: Outcomes of RPS (rps) commons-imaging time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
cfeff1	90.3	74.2	69.3	67.3	66.3	81.6	69.8	65.7	69.1	69.3	33.3	67.6	31.4	20.8
212727	90.6	77.9	77.0	72.6	72.4	42.5	74.5	71.6	74.0	72.3	32.5	32.1	31.4	17.8
a9cca2	89.8	10.1	11.0	9.3	9.2	9.8	10.3	9.3	9.6	9.4	9.3	10.2	9.5	19.8
8a583a	89.7	76.8	72.1	72.5	71.9	45.1	74.7	71.8	75.5	72.6	31.6	30.9	33.1	17.6
f46d64	89.2	10.9	9.7	9.5	8.8	9.8	10.4	9.0	9.6	9.4	9.0	9.8	9.0	17.7
a32cb5	91.1	78.7	71.7	73.4	57.6	81.5	-75.4	72.6	74.2	58.6	25.6	72.3	27.6	18.2
6962d8	90.3	76.3	72.8	75.2	57.0	80.0	75.4	71.7	74.5	59.2	25.5	72.3	24.8	22.5
62c8e6	90.7	96.2	92.9	91.4	90.3	98.3	94.3	89.8	93.0	92.6	92.8	92.4	93.3	18.1
ae548a	91.5	91.4	83.9	86.7	80.7	90.3	89.2	85.0	87.6	82.0	29.4	85.2	29.8	19.4
41d5cf	90.0	10.0	9.5	9.7	8.8	10.4	9.7	9.1	9.7	9.5	9.4	9.7	9.5	18.3
b43743	91.9	10.0	9.4	9.3	9.4	9.6	10.0	9.1	10.3	9.3	9.2	9.7	8.9	17.9
fb0be4	91.4	91.8	88.6	87.7	84.9	92.6	89.0	84.7	87.9	86.6	41.3	86.7	39.4	17.9
611c3b	91.0	24.2	24.1	23.0	22.6	34.9	23.9	22.9	24.3	23.8	23.2	23.9	23.6	17.9
40ab2c	91.0	10.0	9.2	9.2	8.9	9.9	10.4	9.1	9.8	9.7	9.7	9.8	9.2	17.5
c5ca63	90.7	90.6	85.5	86.3	85.6	61.9	89.3	84.5	87.5	86.2	45.0	43.2	40.1	17.6
4701b9	91.3	90.0	85.7	87.2	85.7	53.5	89.9	84.7	87.4	85.8	40.5	40.3	40.1	17.7
7862d6	91.1	93.4	87.5	89.4	89.2	93.7	92.1	87.1	89.4	91.7	47.4	89.9	44.3	18.2
51880b	91.4	92.9	87.4	88.2	86.6	94.6	91.1	86.5	87.8	89.0	42.4	88.8	40.4	17.7
0a6149	90.4	92.9	87.2	88.0	86.6	92.3	90.1	86.8	88.8	88.5	42.3	88.1	41.5	17.7
sum	1723.5	1198.4	1134.3	1135.8	1082.7	1092.5	1169.6	1110.9	1150.1	1105.6	599.4	963.0	586.8	350.3
mean	90.7	63.1	59.7	59.8	57.0	57.5	61.6	58.5	60.5	58.2	31.5	50.7	30.9	18.4

TABLE XX: Outcomes of RPS (rps) javapoet time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
16cd72	59.2	40.5	40.4	40.8	39.1	40.1	18.4	18.3	19.4	18.8	38.5	18.8	18.3	8.0
868524	58.4	39.7	38.6	39.9	38.2	39.1	17.3	17.4	18.0	17.8	37.9	17.5	17.6	8.5
61b0fa	60.1	40.9	39.8	40.5	38.2	40.1	18.3	17.4	19.5	18.5	38.8	18.4	18.1	8.2
bc65a0	58.6	40.7	39.4	40.4	39.8	40.3	18.1	17.9	19.1	18.7	38.8	18.3	17.2	8.4
19b9d7	59.2	12.1	11.9	11.9	11.7	12.0	11.8	11.0	12.3	12.3	11.6	11.8	11.5	8.1
01f707	58.0	12.1	11.6	11.8	11.5	11.6	11.7	11.5	12.0	11.9	11.6	11.9	11.5	8.4
fa5c19	57.9	12.6	12.2	12.4	11.6	12.1	12.4	11.8	12.2	12.0	11.7	12.0	12.1	8.3
ff50d7	58.7	12.2	11.9	12.0	11.6	12.1	12.0	11.3	12.1	12.1	11.5	11.9	11.8	8.2
b66d3d	57.7	12.5	11.9	12.0	11.4	12.0	11.9	11.5	11.9	11.9	11.5	12.0	11.8	8.2
414da3	57.1	11.8	11.4	11.8	14.4	11.5	11.4	11.4	11.7	12.3	14.8	11.6	11.7	8.3
647b93	59.7	13.8	12.7	13.2	12.7	13.5	13.1	13.4	13.8	13.5	12.8	13.4	12.8	10.0
e11279	60.9	13.4	13.3	13.5	12.8	14.4	13.9	13.5	13.9	14.0	13.0	13.3	12.9	10.0
40dfa0	61.4	13.7	13.4	13.8	13.2	14.3	13.6	13.3	14.2	13.6	13.0	13.4	13.3	10.0
4cd975	59.7	13.9	13.5	14.7	13.6	14.2	13.7	13.3	14.2	13.7	13.4	13.8	13.4	10.1
ca12c7	61.0	12.4	13.0	13.5	12.7	13.2	13.5	12.3	13.0	13.0	12.6	12.9	12.6	10.3
08c714	62.0	12.8	13.3	12.9	12.3	13.0	13.5	12.6	13.5	13.3	12.3	13.1	12.9	10.1
a5694a	62.1	13.6	13.6	13.8	13.4	13.9	13.2	12.8	14.1	13.4	13.1	13.5	13.6	10.1
384395	61.0	13.8	13.3	13.9	13.0	14.3	13.7	13.0	14.8	14.0	12.9	14.0	13.6	10.1
f5b1b6	60.6	12.9	12.7	13.9	12.5	13.6	13.7	13.1	13.5	13.3	12.6	12.9	12.9	10.0
sum	1133.4	355.3	347.9	356.7	343.8	355.2	265.4	257.0	273.1	268.0	342.6	264.4	259.6	173.2
mean	59.7	18.7	18.3	18.8	18.1	18.7	14.0	13.5	14.4	14.1	18.0	13.9	13.7	9.1

TABLE XXI: Outcomes of RPS (rps) beanstalker time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
				_		_			-				-	
11a1a8	23.3	33.7	35.0	35.1	32.1	32.5	32.8	33.0	33.3	32.3	33.9	32.6	33.2	12.9
d3d9cc	24.1	35.7	35.3	35.3	33.4	34.2	32.6	32.9	33.2	32.2	36.6	33.3	32.8	12.9
fc343a	24.0	35.2	34.9	34.2	32.7	32.4	32.6	32.3	34.4	32.6	35.4	32.8	33.5	12.9
8dc528	29.9	46.2	47.0	46.1	44.3	43.5	44.3	44.6	45.1	43.2	46.8	44.4	44.6	16.8
966ec5	-21.7	-26.9	-27.0	-27.2	-26.2	-26.1	-25.8	-25.8	-26.2	-25.9	-27.9	-26.3	-26.3	-12.2
7c2a4a	0.9	0.9	0.9	0.9	0.9	0.9	1.0	0.9	1.0	0.9	1.1	0.9	1.0	0.9
68cf11	1.1	1.0	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
01a6eb	30.6	46.7	45.8	47.2	43.8	43.4	41.7	41.4	42.4	41.9	47.1	42.7	42.2	17.6
871176	30.2	47.9	46.8	46.9	45.0	44.6	42.9	43.5	44.2	42.2	48.2	43.9	44.1	17.2
e99f0a	35.8	55.3	55.2	54.7	52.7	52.6	52.1	52.3	53.8	51.5	55.0	53.4	53.4	21.3
70237c	37.1	57.3	57.4	57.5	54.7	54.6	53.8	53.2	55.6	52.1	57.8	54.6	53.8	21.3
cb517b	36.0	56.0	55.2	56.0	52.6	53.5	51.1	50.5	52.5	51.1	56.1	52.6	51.5	21.4
195fbe	35.8	56.4	56.1	55.6	53.5	53.1	52.1	52.4	54.3	52.0	57.1	52.1	52.0	21.3
ddf253	35.6	56.4	55.8	56.1	53.5	54.1	51.4	51.2	52.9	51.3	57.0	52.1	51.9	20.9
89c2ea	36.3	56.2	55.8	56.7	52.3	53.3	52.1	51.1	53.0	51.7	55.6	51.9	51.8	21.2
effb25	35.9	55.4	55.4	54.8	52.7	52.0	51.4	51.1	51.5	51.2	54.9	52.0	51.9	21.0
fe9fc8	35.6	60.0	59.4	59.0	55.6	56.1	54.0	53.6	55.1	54.5	59.6	54.7	54.6	21.4
0e57c6	36.2	54.3	54.6	55.0	51.4	52.5	49.1	48.9	50.9	49.4	53.6	50.1	50.4	21.6
246867	36.3	55.5	55.2	54.6	51.7	52.2	51.3	50.8	52.4	50.4	55.9	51.2	51.6	20.9
ed882c	42.1	66.8	65.8	65.9	62.7	63.0	59.4	59.9	62.0	59.6	66.4	61.2	59.4	25.0
fa900c	41.9	64.1	64.4	64.1	60.7	60.8	58.5	58.9	60.5	58.7	64.7	59.8	58.3	25.2
d5387d	41.3	63.2	62.3	63.4	59.0	60.8	55.7	56.3	57.2	56.1	62.8	57.3	56.4	25.1
276985	42.2	64.6	65.0	64.3	61.6	62.1	59.1	59.4	60.4	59.6	64.0	59.9	59.2	25.3
53790c	42.4	65.8	64.7	64.7	61.1	61.4	58.6	59.3	60.9	59.0	64.0	60.9	59.1	25.2
d92ac2	42.2	64.8	64.8	64.7	61.3	61.2	58.1	59.6	61.1	59.0	63.8	59.7	58.7	25.0
57b569	41.7	69.6	69.2	69.1	65.3	65.9	61.7	62.7	63.5	62.3	68.9	62.8	62.7	25.3
dc0bfb	41.0	65.8	65.8	65.1	61.5	!	61.7	62.0	63.5	61.4	65.5	61.9	61.4	24.7
5599aa	42.3	64.5	64.9	64.8	61.1	61.8 61.9	59.1	60.0	60.8	58.8	64.7	59.4	59.9	24.7
97f130			65.8		61.4		59.7			60.0		62.4		24.8
	41.3	65.1		66.2		61.9	l	60.3	61.9	1	65.6		60.1	
35549e	33.8	58.9	60.1	59.4	55.6	55.8	56.1	55.3	57.4	56.3	58.7	58.4	56.4	25.7
3566e8	33.6	57.9	56.8	57.2	54.8	54.4	52.6	53.0	53.9	52.6	57.3	54.3	52.0	25.6
69dbfa	33.6	60.3	60.2	59.1	55.6	56.3	54.8	54.7	55.1	54.5	58.3	56.1	55.1	25.3
edaba6	-31.7	-60.3	-59.7	-60.3	-56.0	-57.7	-54.7	-55.2	-55.7	-55.4	-59.7	-55.9	-54.8	-23.2
caed60	34.5	53.8	54.2	54.4	50.4	50.5	50.7	50.7	52.2	50.8	53.7	52.3	51.5	25.6
c45847	34.8	68.2	67.1	67.8	64.4	65.0	62.0	62.9	63.9	63.4	68.8	63.5	64.3	25.5
28d121	33.9	68.0	68.4	66.9	63.9	63.5	62.1	63.4	63.8	62.8	66.8	63.0	63.9	25.6
702ded	33.8	69.4	67.9	67.4	64.4	63.9	62.8	63.2	63.8	62.6	68.1	63.4	63.8	25.6
736c69	34.1	53.9	53.6	53.4	50.4	50.8	50.7	51.1	52.1	50.9	53.8	51.4	51.4	25.9
e57574	33.4	54.3	53.2	54.0	50.3	51.1	50.6	50.7	53.0	50.7	54.1	52.1	52.2	26.2
d87076	34.3	53.8	54.8	53.6	50.9	51.3	50.1	51.1	52.3	50.7	53.9	52.3	51.7	25.8
e859da	75.9	144.7	145.0	143.7	137.0	136.8	137.0	137.0	139.9	136.5	143.9	137.5	137.9	64.9
40357a	75.7	139.8	139.7	140.8	132.3	132.4	133.0	132.0	135.5	132.1	139.6	134.2	133.9	65.1
332f14	-22.2	-24.0	-24.2	-24.2	-22.7	-22.9	-23.2	-23.0	-23.8	-23.1	-24.4	-23.4	-23.6	-21.1
c7e905	66.6	127.6	126.2	127.4	119.1	119.2	121.3	120.1	122.5	120.0	125.9	121.1	120.9	56.6
ec5fc3	68.0	119.1	118.7	117.2	111.9	111.9	113.2	113.1	113.5	112.8	119.0	112.7	113.6	57.8
a1d8eb	67.4	131.6	130.1	130.5	124.3	123.1	123.1	122.1	123.4	121.8	130.1	122.6	123.0	56.7
a53ecd	67.1	130.7	129.8	129.8	124.9	124.4	121.7	121.5	123.8	121.3	129.6	123.0	122.4	57.1
620e45	66.8	129.4	129.8	130.7	124.5	123.1	121.1	121.4	123.1	120.7	129.1	122.7	122.3	57.2
cd171f	-50.2	-96.8	-97.0	-96.5	-91.3	-92.0	-91.6	-91.9	-94.0	-91.8	-96.6	-92.7	-92.0	-48.0
sum	1896.3	3193.8	3183.0	3180.6	3010.8	3019.7	2957.3	2962.2	3027.4	2952.6	3182.3	3000.7	2983.2	1331.6
mean	38.7	65.2	65.0	64.9	61.4	61.6	60.4	60.5	61.8	60.3	64.9	61.2	60.9	27.2

TABLE XXII: Outcomes of RPS (rps) commons-io time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
2196ff	411.4	21.1	20.3	20.3	21.1	20.6	20.7	20.6	21.2	20.6	20.3	21.3	20.7	101.5
65657b	414.5	20.8	20.2	20.6	20.6	21.6	20.9	20.5	20.0	19.5	19.6	21.1	19.5	101.2
6e2ac1	415.7	251.0	229.6	239.2	246.9	234.9	191.2	192.3	184.0	192.7	214.5	179.1	160.0	101.7
b014a0	415.1	21.6	20.9	19.9	21.2	21.6	19.3	20.5	21.5	19.9	19.5	20.8	19.7	101.5
dcf6e8	412.2	174.9	155.0	167.4	-163.4	158.7	150.4	151.3	130.2	140.0	151.8	130.6	125.9	102.7
84a0d9	408.8	176.2	155.4	166.8	174.0	158.7	150.4	150.6	130.5	150.5	155.0	129.9	-129.0	102.1
10c8db	412.3	174.9	154.7	166.7	172.5	158.3	151.7	151.4	130.1	149.5	154.9	130.6	128.9	102.3
2bacf6	414.1	22.0	19.8	19.5	20.9	20.4	20.6	20.4	20.1	20.4	19.7	19.9	19.7	101.8
4f50c3	418.1	179.5	159.9	170.7	177.5	165.7	152.9	151.0	130.1	150.3	159.1	131.1	129.4	102.8
30280a	413.1	179.6	159.3	172.5	178.1	165.0	152.0	152.9	130.4	152.2	160.0	132.1	129.7	101.7
9cd312	407.3	179.5	159.7	170.7	178.3	165.3	151.9	149.7	131.6	152.4	159.2	130.9	128.9	101.7
c1b64e	410.9	21.4	18.7	19.3	21.1	20.9	20.1	20.4	20.8	19.9	19.4	21.2	19.6	101.9
65c4a9	409.2	20.6	20.2	19.5	21.5	21.3	20.0	20.2	21.8	20.1	19.7	20.3	20.6	101.6
86cc77	423.0	21.1	20.4	19.8	21.3	21.0	20.4	20.2	20.9	20.8	19.8	20.9	20.3	103.5
d3fc1a	422.9	21.8	19.7	19.2	20.6	20.9	19.5	20.3	21.0	19.8	20.2	20.2	19.6	101.7
d19259	420.8	313.3	-250.1	294.6	308.5	258.5	211.2	213.0	158.8	211.6	238.3	158.6	139.9	103.0
ed15b0	420.5	313.8	248.2	296.0	256.7	258.1	213.4	212.8	157.7	192.8	199.6	158.7	133.4	102.1
459ceb	419.1	278.4	220.6	262.7	180.5	-227.2	201.7	201.4	152.1	150.7	161.2	151.9	128.1	101.6
947c01	416.5	279.0	383.3	264.2	276.1	262.3	192.7	193.1	183.1	192.5	239.9	178.3	159.4	103.0
sum	7885.4	2670.6	2435.9	2529.8	2480.9	2380.8	2080.8	2082.6	1785.9	1996.4	2151.5	1777.5	1652.2	1939.2
mean	415.0	140.6	128.2	133.1	130.6	125.3	109.5	109.6	94.0	105.1	113.2	93.6	87.0	102.1

TABLE XXIII: Outcomes of RPS (rps) imglib2 time

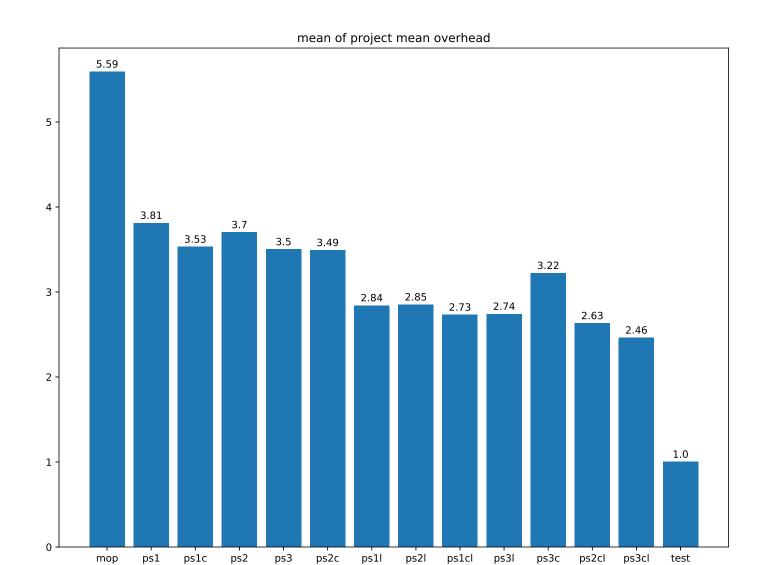
sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
311bb3	31.6	18.5	17.7	18.5	18.6	17.6	18.8	18.1	18.2	17.3	18.0	18.2	17.6	12.6
e45314	31.2	15.9	15.4	16.1	16.5	15.7	16.7	15.7	16.2	15.4	16.2	16.0	15.5	12.5
2d6644	31.2	26.8	25.7	27.2	27.9	25.3	27.4	26.8	27.5	26.6	25.2	25.0	24.6	12.6
ca346b	31.5	24.5	16.8	23.6	24.5	16.9	24.5	23.1	17.4	23.4	16.2	16.7	16.0	12.9
28c941	31.4	29.3	22.1	29.4	30.5	21.3	29.6	29.1	22.1	28.9	21.0	20.9	20.2	12.9
f835a8	31.0	6.7	6.5	6.7	6.9	6.7	7.2	6.1	7.0	6.4	6.7	6.6	6.4	12.3
a735f9	31.1	29.2	27.4	29.0	30.1	26.7	29.4	28.1	28.9	28.2	27.9	27.1	26.3	13.1
bba835	31.3	16.1	15.0	17.2	15.5	16.2	16.9	16.2	16.7	15.1	15.2	15.9	15.8	12.9
e2f354	31.2	29.8	27.5	29.8	31.1	27.3	29.7	28.6	29.6	28.5	27.9	28.0	26.8	12.4
897b86	31.5	6.5	6.3	6.5	6.7	6.0	6.8	6.7	6.7	6.4	6.2	6.5	6.4	12.9
59cf72	31.4	29.2	27.7	30.0	30.7	27.3	29.5	28.8	29.3	29.0	28.2	27.5	26.5	12.6
1941a7	31.6	29.4	27.4	29.8	30.5	26.8	29.7	28.5	29.6	28.8	27.4	27.6	26.4	12.7
ca903a	33.8	35.9	34.8	36.1	36.2	34.3	36.4	35.3	36.7	35.2	35.5	34.7	34.6	13.4
1fe7da	33.8	30.9	21.2	31.0	31.6	20.5	30.8	30.4	22.7	29.2	20.4	21.1	18.6	13.5
d5e69f	33.8	7.3	7.1	6.6	7.0	6.9	7.6	7.4	7.6	7.2	7.3	7.2	6.5	13.3
b34e8b	33.7	30.6	20.0	30.9	16.8	19.8	30.8	30.4	21.2	15.6	16.9	20.7	16.2	13.6
43e04d	34.0	30.4	20.3	29.7	16.9	19.3	30.8	28.6	20.9	15.7	16.2	18.6	15.8	13.6
156d36	34.4	30.7	28.9	31.1	32.2	28.3	31.4	30.3	31.0	30.2	28.5	28.7	28.2	13.7
599cd1	34.1	31.0	20.6	31.6	17.2	20.6	30.7	30.5	21.7	16.4	16.4	20.1	16.2	13.7
sum	613.9	458.9	388.7	460.5	427.2	383.3	464.7	448.7	410.9	403.6	377.2	387.1	364.6	247.3
mean	32.3	24.2	20.5	24.2	22.5	20.2	24.5	23.6	21.6	21.2	19.9	20.4	19.2	13.0

TABLE XXIV: Outcomes of RPS (rps) jscep time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
e553d4	46.9	38.5	39.5	39.4	38.2	37.9	28.1	28.1	27.8	28.2	37.3	27.0	27.0	21.9
ce7b9a	47.9	47.5	50.5	47.9	48.1	49.9	48.2	47.7	49.2	48.1	48.0	49.3	48.2	21.8
8cd073	47.6	42.6	43.8	39.0	39.7	39.4	28.4	27.3	26.8	27.2	38.2	26.0	26.1	21.8
6e794a	47.7	43.4	44.6	42.4	38.9	43.6	28.2	27.9	27.5	27.4	38.2	28.4	26.6	22.3
c77163	33.7	28.5	31.0	29.2	19.0	29.5	14.5	14.0	13.8	12.8	18.8	13.2	11.9	7.6
da5108	33.8	28.9	30.5	28.7	28.6	28.5	13.8	14.0	13.7	13.6	27.5	12.8	12.3	8.1
7cc074	33.8	3.8	3.8	3.6	3.6	3.8	3.7	3.3	3.7	3.7	3.6	3.7	3.5	8.0
886eac	33.4	30.5	31.3	30.0	30.4	31.0	15.0	14.3	14.2	14.0	29.2	13.8	13.6	7.7
6404ef	34.2	3.3	3.8	3.4	3.5	3.5	3.6	3.7	3.5	3.3	3.3	3.6	3.5	7.9
a039b8	34.2	12.2	13.3	12.7	12.4	12.9	11.2	11.3	11.3	11.3	12.2	11.3	10.9	8.1
c45090	33.2	3.3	3.7	3.5	3.2	3.5	3.5	3.4	3.3	3.2	3.1	3.5	3.1	8.0
2af66c	33.9	29.2	30.9	29.7	18.7	30.1	14.0	14.0	12.6	12.4	18.0	13.6	11.5	7.8
ab5a7f	33.3	30.3	32.0	30.0	24.8	31.2	14.6	13.8	13.9	13.5	25.0	14.3	12.2	8.1
afd8e1	33.2	30.4	32.3	30.9	30.8	31.5	14.6	14.3	14.3	14.9	29.9	14.4	12.8	8.1
1cf7dd	33.7	30.7	32.2	29.5	28.7	31.0	14.2	14.0	13.8	13.9	27.9	14.2	12.9	7.8
c27515	33.2	29.4	31.5	28.0	28.0	28.2	13.6	13.6	13.4	13.5	26.6	12.1	11.8	7.6
e4683d	32.9	30.0	31.3	28.6	28.7	29.0	14.5	13.8	13.6	13.9	27.5	13.3	12.4	7.9
9a58e1	33.8	30.0	31.4	28.4	28.1	28.3	14.0	13.6	13.0	13.3	26.7	13.0	11.7	7.5
661ba5	33.9	29.7	31.0	21.0	21.1	21.0	14.0	12.5	12.5	12.0	20.1	11.8	10.7	8.1
298ec2	33.2	29.5	30.4	29.3	18.7	30.1	13.8	13.7	12.6	11.6	17.8	12.9	11.2	7.8
71cc1e	33.5	29.5	31.0	29.4	18.8	29.1	14.0	13.9	12.9	12.4	18.0	13.2	10.9	7.5
d30047	33.0	29.7	31.9	29.4	27.4	30.3	14.0	13.9	13.3	13.6	26.2	13.9	11.5	7.6
2c828e	32.6	26.8	27.9	26.3	22.9	27.1	13.1	13.6	11.7	13.2	22.3	12.5	11.8	7.8
fa7653	32.9	30.7	33.2	31.4	31.5	32.2	15.0	15.2	15.5	15.4	31.2	16.0	15.4	7.3
9284fb	33.0	30.2	31.6	28.1	28.4	27.8	13.4	13.1	13.0	13.6	27.2	12.0	11.5	8.0
795bcb	33.4	29.8	31.7	30.0	28.5	31.3	13.8	13.9	13.5	14.0	27.8	14.0	12.4	7.7
8f11a9	34.0	30.5	32.3	30.5	29.1	30.8	14.8	14.4	13.9	14.5	27.6	14.5	12.9	8.0
b64cb3	33.2	3.4	3.7	3.5	3.5	3.7	3.5	3.3	3.6	3.4	3.5	3.9	3.7	7.8
338fad	34.2	3.4	3.7	3.5	3.6	3.8	3.4	3.3	3.6	3.5	3.5	3.7	3.6	7.8
2e6948	33.7	34.1	36.2	35.2	34.9	35.8	34.0	34.1	35.2	34.5	34.8	35.6	34.5	7.8
e5cf30	34.0	29.7	32.0	28.9	29.3	28.9	14.1	14.2	13.8	14.1	28.5	14.7	12.5	8.3
42bb03	33.2	29.3	31.1	28.2	28.5	28.4	13.7	13.7	13.9	13.9	26.9	13.1	12.3	7.5
a40f7b	34.1	29.1	30.5	23.1	18.5	23.3	14.1	13.1	13.3	12.2	18.0	12.0	10.9	7.5
35b503	34.9	29.7	30.9	30.6	27.5	30.9	14.7	14.5	13.9	14.6	27.1	14.0	12.5	7.6
daabb3	34.6	29.6	30.7	21.3	21.4	21.3	14.2	12.6	13.5	12.5	21.1	12.1	11.4	7.8
abe114	33.1	29.4	31.1	29.8	21.7	30.2	14.2	14.3	13.5	13.6	21.0	13.5	11.8	7.4
647e36	34.1	3.6	4.0	3.6	3.7	3.9	3.5	3.7	3.6	3.3	3.5	3.6	3.3	8.2
727d01	33.4	35.0	37.0	34.6	34.7	35.8	35.9	34.8	35.6	34.6	34.7	35.0	34.1	8.3
848385	33.3	29.9	30.9	21.7	21.8	21.7	14.9	13.1	13.2	13.4	20.8	12.2	11.8	7.7
f0b104	33.7	33.8	36.1	33.0	34.5	35.5	34.2	34.0	34.8	34.4	34.3	34.7	33.2	7.8
97bf71	33.7	29.7	32.5	20.9	22.5	21.1	14.3	12.5	13.3	12.4	20.6	11.3	10.7	8.1
615b24	35.3	36.1	39.7	36.3	36.3	37.8	37.8	35.7	37.4	36.3	36.2	37.5	35.4	7.7
a712db	-107.2	-104.6	-122.3	-89.4	-98.5	-105.8	-91.4	-86.3	-111.6	-111.6	-109.9	-116.5	-77.7	-70.0
d5c64b	-87.5	3.4	3.8	3.2	3.5	3.7	3.5	3.3	3.6	3.4	3.5	3.7	3.3	-63.7
19f366	-101.3	-95.4	-110.4	-101.0	-104.7	-91.4	-72.1	-95.5	-77.0	-81.3	-95.1	-88.2	-93.2	-92.5
94a361	-84.6	-90.8	-92.0	-92.1	-81.9	-123.7	-78.4	-117.3	-78.5	-122.1	-79.6	-73.2	-70.8	-84.8
40295a	-93.5	3.5	3.7	3.4	3.4	3.9	3.6	3.4	3.5	3.4	3.3	3.7	3.3	-68.7
fee2a5	-93.3	-97.4	-143.0	-107.8	-108.5	-92.8	-96.0	-113.1	-58.5	-64.7	-85.6	-97.4	-64.7	-89.1
3c9dd9	-106.6	-96.1	-114.4	-79.4	-92.0	-81.6	-98.5	-113.5	-95.9	-88.9	-94.4	-94.0	-62.3	-74.0
sum	2142.5	1636.1	1797.9	1570.6	1514.4	1617.2	1133.7	1205.3	1099.0	1140.9	1464.9	1142.1	997.1	927.9
mean	43.7	33.4	36.7	32.1	30.9	33.0	23.1	24.6	22.4	23.3	29.9	23.3	20.3	18.9

TABLE XXV: Outcomes of RPS (rps) stream-lib time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
6a6645	582.8	648.9	109.6	354.3	450.9	109.4	525.9	495.2	107.8	640.5	116.1	113.2	103.1	88.5
91d215	581.8	96.6	87.7	99.9	94.6	87.4	96.6	98.6	85.4	98.9	93.1	92.8	85.1	90.1
c0e238	594.8	91.7	89.6	95.6	87.9	84.0	91.7	94.3	84.8	94.2	93.1	92.1	83.8	88.6
63255d	858.6	602.0	95.2	416.6	441.0	93.0	535.1	632.1	90.2	560.5	100.2	99.2	90.6	87.8
0f2183	601.2	633.7	93.0	493.9	373.9	93.2	533.3	578.0	86.8	633.9	96.2	97.0	87.8	89.8
98b913	647.7	571.6	92.3	594.5	376.1	91.3	516.3	-617.1	86.7	547.8	97.6	95.4	87.5	89.3
43aecb	664.5	339.2	95.3	358.4	442.7	93.6	489.9	589.2	89.5	623.3	99.3	97.4	93.4	88.9
0c33f1	477.9	514.2	91.4	504.3	380.4	91.8	479.0	659.0	87.5	540.1	95.8	96.6	90.4	89.5
0eca17	599.7	541.2	91.3	608.4	372.5	90.6	405.5	493.7	86.4	303.6	97.1	96.4	89.1	88.6
7433ea	471.2	581.1	95.2	581.8	445.9	93.5	391.1	592.0	89.0	504.4	99.7	99.8	89.1	88.3
8da108	712.9	480.7	148.9	660.3	420.5	148.8	565.1	654.1	144.8	583.1	157.7	160.5	142.4	90.5
7d085a	509.9	4.4	4.4	4.3	4.3	4.1	4.4	4.5	4.1	3.9	4.3	4.2	4.0	90.2
22654f	757.3	89.2	87.4	90.9	84.8	87.1	90.1	92.0	85.5	88.0	92.3	94.2	84.8	90.3
35a0d3	456.3	304.4	465.1	465.2	394.4	351.8	279.6	491.6	427.0	428.7	472.6	476.6	406.2	87.1
b5fc30	600.6	450.2	490.8	571.5	578.6	434.4	626.4	466.1	442.7	495.8	619.3	392.8	467.0	87.1
3ac200	747.9	158.7	99.0	164.3	173.3	99.0	167.9	158.8	95.5	162.1	106.3	107.1	96.7	98.7
f0518e	715.4	171.2	107.0	170.9	175.2	106.9	179.1	169.9	102.7	166.3	113.5	111.5	103.7	105.0
8f31aa	536.4	468.4	126.6	568.1	691.8	115.6	819.8	579.9	122.0	481.6	122.7	120.9	110.8	105.6
573fa7	775.4	149.0	88.1	150.9	160.4	88.7	159.8	154.1	86.4	145.5	95.0	94.9	88.7	85.5
sum	11892.6	6896.5	2557.8	6953.9	6149.0	2364.3	6956.7	7620.1	2404.9	7102.1	2772.2	2542.7	2404.5	1729.5
mean	625.9	363.0	134.6	366.0	323.6	124.4	366.1	401.1	126.6	373.8	145.9	133.8	126.6	91.0



ps1l

ps2l

ps1cl

ps3l

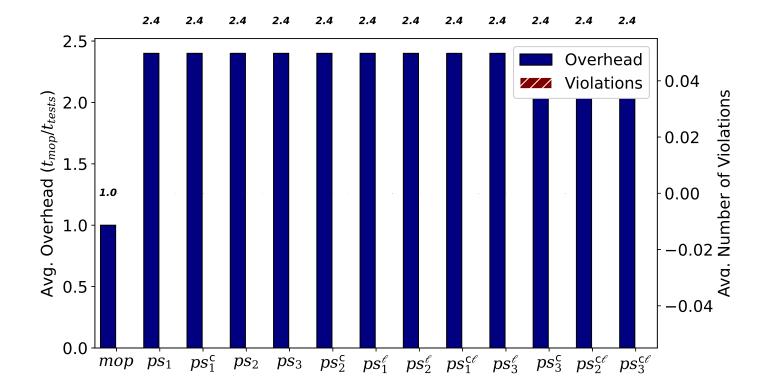
ps3c

ps3cl

ps1

mop

ps1c



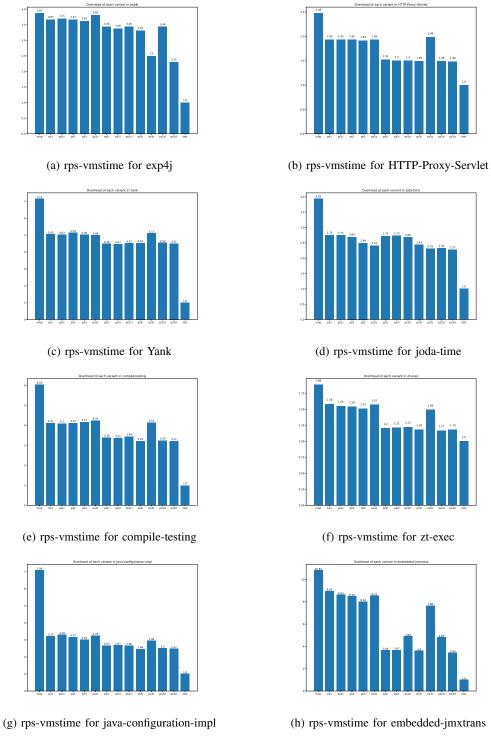


Fig. 15: Plots for rps-vms Part 1

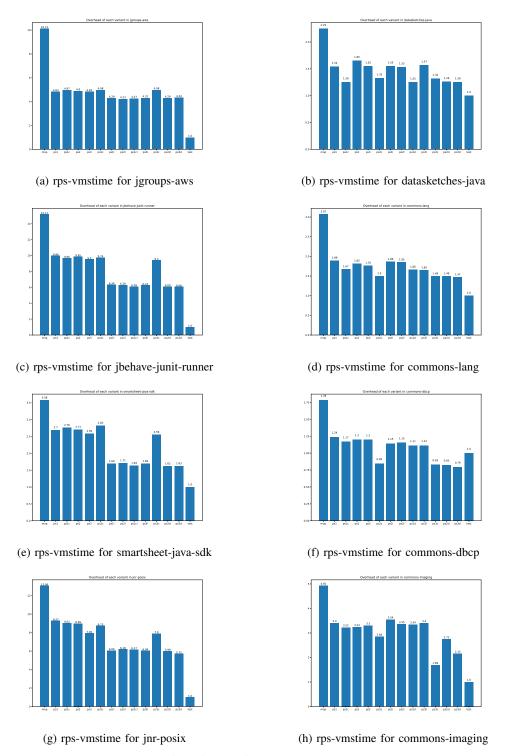


Fig. 16: Plots for rps-vms Part 2

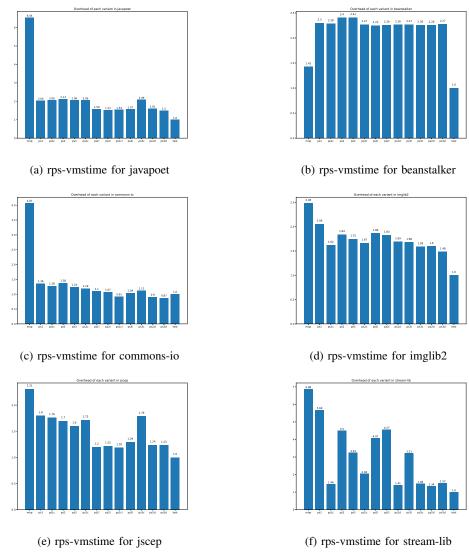


Fig. 17: Plots for rps-vms Part END

TABLE XXVI: Outcomes of RPS (rps-vms) sum time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
exp4j	1757.1	1665.5	1681.9	1664.1	1642.9	1731.1	1565.9	1536.7	1564.0	1505.3	1134.2	1558.7	1046.8	453.7
HTTP-Proxy-Servlet	1617.1	1262.5	1261.2	1261.9	1252.2	1261.5	995.7	982.0	980.1	973.1	1299.8	973.0	970.7	652.7
Yank	356.0	251.4	250.7	256.3	250.6	248.4	223.6	222.6	224.9	225.8	254.6	226.1	224.4	49.8
joda-time	2081.0	1455.9	1453.0	1424.0	1319.8	1275.8	1440.2	1444.5	1417.5	1287.9	1222.3	1229.0	1203.5	529.2
compile-testing	1844.4	1257.1	1253.5	1259.7	1274.6	1296.8	1034.0	1024.6	1052.5	985.2	1263.4	993.0	981.9	305.7
zt-exec	386.0	324.5	317.9	315.9	309.6	321.8	246.9	248.8	251.1	242.8	305.8	239.7	242.9	204.9
java-configuration-impl	629.2	286.1	292.8	281.6	267.6	288.6	237.0	237.6	236.4	218.8	261.7	222.6	219.3	88.9
embedded-jmxtrans	2174.5	1801.4	1735.3	1707.1	1612.5	1714.9	735.1	738.4	983.4	723.4	1540.7	966.4	690.7	201.1
jgroups-aws	464.5	221.7	228.0	224.8	221.8	228.4	196.8	194.3	196.0	198.1	228.5	197.1	199.0	45.9
datasketches-java	3785.2	2598.5	2113.4	2782.8	2604.8	2236.3	2608.8	2581.0	2104.1	2640.6	2221.6	2119.7	2113.3	1683.3
jbehave-junit-runner	3524.8	2313.5	2245.0	2288.7	2207.8	2263.1	1473.0	1459.9	1414.6	1449.6	2183.6	1415.4	1408.4	232.3
commons-lang	1254.7	774.2	684.5	743.3	721.7	612.8	760.8	755.2	680.0	673.3	610.2	611.5	600.5	409.1
smartsheet-java-sdk	964.9	727.0	745.4	730.3	697.4	762.6	456.1	462.5	441.9	456.7	689.8	437.8	439.0	269.7
commons-dbcp	1796.3	1248.5	1176.8	1209.6	1208.1	853.4	1153.9	1163.1	1121.5	1123.7	836.7	831.8	800.5	1007.1
jnr-posix	7636.2	5422.7	5277.5	5255.3	4632.3	5103.2	3544.5	3616.7	3607.9	3531.3	4620.4	3503.3	3343.3	584.8
commons-imaging	1723.5	1191.2	1128.9	1132.3	1156.4	995.6	1241.7	1174.4	1170.3	1190.3	591.6	957.8	752.5	350.3
javapoet	1133.4	353.7	356.2	368.2	356.6	356.0	274.9	264.3	267.3	272.3	361.7	279.3	259.7	173.2
beanstalker	1896.3	3061.2	3042.5	3201.3	3207.2	3021.0	2993.6	3007.4	3013.5	3023.2	3008.1	3004.1	3029.2	1331.6
commons-io	7885.4	2635.9	2477.7	2671.9	2403.8	2315.1	2130.2	2073.7	1770.7	2019.8	2159.8	1748.4	1695.4	1939.2
imglib2	613.9	508.6	400.5	455.1	432.2	412.0	460.7	451.8	418.4	415.1	393.2	394.7	366.8	247.3
jscep	2142.5	1666.9	1633.5	1576.7	1484.7	1592.1	1109.2	1129.7	1098.5	1197.2	1657.4	1146.9	1142.4	927.9
stream-lib	11892.6	9833.0	2516.9	7781.2	5598.2	3528.6	7041.8	7895.4	2430.7	5554.5	2560.0	2315.1	2622.3	1729.5
sum	57559.5	40861.1	32273.4	38592.2	34862.9	32419.3	31924.1	32664.6	26445.2	29908.1	29405.2	25371.4	24352.4	13417.2
mean	2616.3	1857.3	1467.0	1754.2	1584.7	1473.6	1451.1	1484.8	1202.1	1359.5	1336.6	1153.2	1106.9	609.9

TABLE XXVII: Outcomes of RPS (rps-vms) mean time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
exp4j	35.9	34.0	34.3	34.0	33.5	35.3	32.0	31.4	31.9	30.7	23.1	31.8	21.4	9.3
HTTP-Proxy-Servlet	33.0	25.8	25.7	25.8	25.6	25.7	20.3	20.0	20.0	19.9	26.5	19.9	19.8	13.3
Yank	22.2	15.7	15.7	16.0	15.7	15.5	14.0	13.9	14.1	14.1	15.9	14.1	14.0	3.1
joda-time	42.5	29.7	29.7	29.1	26.9	26.0	29.4	29.5	28.9	26.3	24.9	25.1	24.6	10.8
compile-testing	37.6	25.7	25.6	25.7	26.0	26.5	21.1	20.9	21.5	20.1	25.8	20.3	20.0	6.2
zt-exec	27.6	23.2	22.7	22.6	22.1	23.0	17.6	17.8	17.9	17.3	21.8	17.1	17.3	14.6
java-configuration-impl	27.4	12.4	12.7	12.2	11.6	12.5	10.3	10.3	10.3	9.5	11.4	9.7	9.5	3.9
embedded-jmxtrans	44.4	36.8	35.4	34.8	32.9	35.0	15.0	15.1	20.1	14.8	31.4	19.7	14.1	4.1
jgroups-aws	29.0	13.9	14.3	14.0	13.9	14.3	12.3	12.1	12.3	12.4	14.3	12.3	12.4	2.9
datasketches-java	80.5	55.3	45.0	59.2	55.4	47.6	55.5	54.9	44.8	56.2	47.3	45.1	45.0	35.8
jbehave-junit-runner	71.9	47.2	45.8	46.7	45.1	46.2	30.1	29.8	28.9	29.6	44.6	28.9	28.7	4.7
commons-lang	66.0	40.7	36.0	39.1	38.0	32.3	40.0	39.7	35.8	35.4	32.1	32.2	31.6	21.5
smartsheet-java-sdk	48.2	36.3	37.3	36.5	34.9	38.1	22.8	23.1	22.1	22.8	34.5	21.9	21.9	13.5
commons-dbcp	94.5	65.7	61.9	63.7	63.6	44.9	60.7	61.2	59.0	59.1	44.0	43.8	42.1	53.0
jnr-posix	155.8	110.7	107.7	107.3	94.5	104.1	72.3	73.8	73.6	72.1	94.3	71.5	68.2	11.9
commons-imaging	90.7	62.7	59.4	59.6	60.9	52.4	65.4	61.8	61.6	62.6	31.1	50.4	39.6	18.4
javapoet	59.7	18.6	18.7	19.4	18.8	18.7	14.5	13.9	14.1	14.3	19.0	14.7	13.7	9.1
beanstalker	38.7	62.5	62.1	65.3	65.5	61.7	61.1	61.4	61.5	61.7	61.4	61.3	61.8	27.2
commons-io	415.0	138.7	130.4	140.6	126.5	121.8	112.1	109.1	93.2	106.3	113.7	92.0	89.2	102.1
imglib2	32.3	26.8	21.1	24.0	22.7	21.7	24.2	23.8	22.0	21.8	20.7	20.8	19.3	13.0
jscep	43.7	34.0	33.3	32.2	30.3	32.5	22.6	23.1	22.4	24.4	33.8	23.4	23.3	18.9
stream-lib	625.9	517.5	132.5	409.5	294.6	185.7	370.6	415.5	127.9	292.3	134.7	121.8	138.0	91.0
sum	2122.7	1433.9	1007.3	1317.3	1159.0	1021.7	1124.0	1162.2	843.8	1023.9	906.5	797.8	775.8	488.5
mean	96.5	65.2	45.8	59.9	52.7	46.4	51.1	52.8	38.4	46.5	41.2	36.3	35.3	22.2

TABLE XXVIII: Outcomes of RPS (rps-vms) exp4j time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
9b5270	103.1	122.4	126.8	111.4	124.6	123.5	111.3	99.1	107.9	107.3	120.9	100.6	102.2	9.5
abf84e	106.6	105.7	113.7	105.3	104.9	117.4	112.3	103.3	102.2	106.7	78.8	109.5	66.2	9.4
bfaeb2	107.3	111.0	108.6	105.1	116.7	120.4	101.1	98.9	116.5	104.7	71.3	109.3	61.4	9.5
4346b2	107.3	107.6	112.2	108.4	111.0	112.1	100.0	97.6	99.8	101.6	20.6	94.4	20.3	9.3
16f249	112.3	109.8	113.3	115.5	122.9	109.4	102.9	101.3	99.6	101.2	22.3	100.1	21.0	9.6
с339сс	106.9	110.6	113.1	109.2	118.7	117.3	101.8	103.5	97.9	102.9	21.7	103.1	22.0	9.6
224191	105.2	115.8	122.7	114.3	122.9	121.4	97.2	97.0	100.3	102.5	120.0	101.6	110.8	9.6
5b63e1	104.2	106.9	95.9	113.0	113.6	111.2	98.2	92.2	96.0	97.8	66.1	98.3	76.4	9.6
76ffe6	108.3	3.8	3.8	3.7	4.1	3.6	3.4	3.5	3.7	3.8	3.8	3.5	3.5	9.4
f80e8b	104.9	103.9	95.1	105.4	22.5	108.5	102.9	101.1	97.9	21.9	14.1	104.5	13.3	9.6
8ff4f1	103.3	103.7	96.6	104.4	113.6	108.2	92.7	94.6	95.3	101.0	20.3	93.7	20.5	9.7
96c52c	19.6	20.3	21.1	20.3	20.7	20.9	20.8	20.7	20.7	21.2	21.3	20.6	20.9	8.9
9d7620	14.0	13.6	14.0	13.8	14.0	14.6	13.3	13.4	13.4	14.1	14.6	13.5	13.6	8.9
1640d4	13.7	13.3	13.5	13.6	13.6	13.9	13.1	13.2	13.3	13.5	13.6	12.8	12.9	9.1
377eb0	13.7	14.9	15.5	15.5	16.0	15.5	14.3	14.4	14.6	14.7	15.9	14.0	14.4	9.0
b5b575	14.2	14.7	15.4	14.7	15.6	15.6	14.3	14.1	14.0	14.5	15.1	14.1	14.4	9.1
1f4ac3	14.1	14.7	15.0	14.7	14.0	14.8	14.3	13.9	14.0	13.8	14.1	14.0	13.1	8.9
f27e78	14.0	15.0	15.2	15.1	14.4	15.0	14.2	14.1	14.4	13.7	14.2	14.0	13.0	9.0
59849d	14.7	15.0	15.3	14.8	14.0	15.0	14.0	14.7	14.5	13.7	14.1	14.1	12.8	9.0
a97382	15.5	15.8	16.2	15.8	16.1	16.1	15.1	15.2	15.5	15.6	16.0	15.3	15.5	9.1
83de2b	15.2	16.2	16.3	16.0	16.1	16.4	15.3	15.4	15.5	15.8	16.6	15.3	15.2	9.1
70d59f	15.2	14.9	15.3	15.2	15.2	15.2	14.3	14.5	14.7	14.9	15.2	14.7	14.1	9.1
49d187	15.2	15.1	15.3	15.4	14.9	15.1	14.5	14.4	14.9	14.8	14.4	14.6	13.4	9.1
219dfc	15.8	15.3	15.5	15.5	15.5	15.9	15.1	15.0	15.3	15.6	16.4	15.5	15.5	9.2
eb7ec0	15.4	14.6	15.3	14.7	15.0	15.1	14.5	14.8	14.6	14.7	15.4	14.4	14.9	9.2
fe0b59	15.1	15.1	15.6	15.2	15.5	15.3	14.5	14.6	14.6	14.9	15.3	13.9	14.3	9.1
3d3255	15.3	15.1	15.4	15.0	15.6	15.5	14.5	14.8	15.0	15.3	15.0	14.0	14.5	9.0
fb1bd8	15.0	3.5	3.5	3.4	3.7	3.6	3.4	3.4	3.4	3.5	3.8	3.5	3.5	9.2
377f45	15.2	16.1	16.6	16.3	16.1	16.1	15.6	15.6	15.5	16.0	16.0	15.1	14.3	9.2
58938f	15.8	16.0	16.8	16.6	16.0	16.8	15.6	15.5	15.8	16.1	17.4	15.9	15.6	9.2
e329dd	15.4	16.0	16.6	16.5	16.5	16.2	15.3	15.3	15.2	15.7	15.9	14.6	14.8	9.4
9d257d	15.8	16.4	16.5	16.5	16.3	15.9	14.9	15.0	15.5	15.6	16.1	14.5	14.6	9.3
ee8d81	15.4	3.4	3.5	3.5	3.3	3.7	3.4	3.5	3.6	3.4	3.6	3.5	3.4	9.4
403989	15.8	16.1	16.8	16.2	16.3	16.8	15.3	15.3	15.5	15.4	16.7	15.2	14.9	9.1
9da6d6	15.2	16.0	16.9	16.6	16.3	16.1	15.0	15.2	15.5	15.7	16.4	14.6	14.5	9.3
8df7ad	15.6	16.2	16.7	16.3	17.1	17.1	15.5	15.7	15.7	16.4	17.1	15.4	15.3	9.2
115238	15.6	15.8	16.6	16.6	16.8	16.5	15.7	15.7	15.6	15.8	17.4	15.9	15.2	9.1
e977f1	15.6	16.4	16.8	15.9	14.8	16.4	16.0	15.5	15.9	15.2	14.4	15.4	13.6	9.3
eb606b	16.2	16.5	17.1	16.7	16.8	17.2	15.8	16.0	15.8	16.7	16.9	15.8	15.4	9.4
bc9a8a	16.1	16.5	16.7	16.0	16.8	16.5	15.5	15.4	15.5	16.1	17.2	15.4	15.6	9.1
0f86d5	15.5	16.3	16.9	16.1	17.0	16.7	15.8	15.8	16.0	16.2	17.6	15.6	15.8	9.3
fb1103	15.8	3.5	3.5	3.5	3.7	3.8	3.5	3.5	3.4	3.6	3.6	3.5	3.4	9.3
2b82f0	15.9	15.7	16.1	16.2	16.3	16.7	15.4	15.2	15.3	15.9	17.1	15.3	15.1	9.2
e3fbf3	16.0	16.8	17.8	16.8	17.3	17.7	16.6	16.4	16.5	16.7	17.7	16.7	16.7	9.2
c2f7b9	16.3	15.8	15.8	15.7	13.3	15.7	15.0	15.4	14.8	13.3	13.5	14.9	12.3	9.4
1af15f	16.4	16.8	17.0	16.7	16.2	16.7	15.5	15.5	15.5	15.8	17.2	16.1	15.8	9.2
726228	15.7	16.0	16.6	16.2	16.6	16.6	15.2	15.8	15.3	16.0	16.3	15.6	14.8	9.3
12eb15	16.1	17.2	17.9	17.1	16.6	17.6	16.2	16.5	16.1	16.8	17.3	16.3	15.9	9.2
bae815	16.2	17.5	17.4	17.3	17.7	17.9	16.2	16.1	16.6	17.0	18.0	16.4	16.2	9.5
sum	1757.1	1665.5	1681.9	1664.1	1642.9	1731.1	1565.9	1536.7	1564.0	1505.3	1134.2	1558.7	1046.8	453.7
mean	35.9	34.0	34.3	34.0	33.5	35.3	32.0	31.4	31.9	30.7	23.1	31.8	21.4	9.3

TABLE XXIX: Outcomes of RPS (rps-vms) HTTP-Proxy-Servlet time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
33e505	15.3	8.7	9.1	9.0	8.7	9.0	8.0	7.6	7.6	7.5	9.6	7.3	7.2	3.0
4b1e27	15.5	8.3	8.4	8.2	8.0	7.8	6.8	6.6	6.5	6.4	9.0	6.5	6.4	3.0
98985b	15.0	8.3	8.2	8.1	8.7	8.0	6.6	6.5	6.4	6.4	8.4	6.5	6.8	2.9
1d5413	15.6	7.8	8.3	8.3	8.3	8.2	6.9	6.7	6.5	6.5	8.9	6.5	6.3	2.9
cb3a0b	15.0	8.2	8.3	8.2	8.0	8.1	6.7	6.5	6.8	6.6	9.2	6.5	6.3	3.0
fa9d71	15.1	3.8	3.9	3.8	3.9	4.0	3.9	3.8	3.8	4.0	4.3	3.8	3.8	3.0
58e91f	14.8	14.2	14.5	14.2	14.7	14.3	7.5	7.2	7.3	7.2	15.6	7.2	7.5	3.0
8a41cf	15.3	14.1	14.3	14.3	9.6	14.6	7.4	7.1	7.1	6.7	10.2	7.2	6.6	3.0
6925e1	15.7	13.7	13.3	13.4	13.1	13.0	7.3	7.1	7.1	6.9	14.2	6.9	7.1	3.0
5500d9	15.8	16.7	17.6	16.9	17.0	17.5	17.9	17.7	17.5	17.4	18.6	17.4	17.5	3.1
32401f	16.8	13.7	14.2	13.9	13.8	13.6	7.7	7.5	7.3	7.3	14.7	7.1	7.3	2.9
b8405e	16.0	13.7	13.6	13.6	13.8	13.9	7.8	7.9	7.5	7.5	14.7	7.6	7.4	3.0
c93ca1	16.2	13.7	13.9	13.5	13.6	13.8	7.7	7.3	7.4	7.3	14.3	7.4	7.4	2.9
e9cc22	16.7	13.7	13.8	14.1	14.0	14.2	7.9	7.8	7.5	7.7	14.7	7.5	7.6	3.1
1e3a0c	16.7	13.8	13.4	13.4	9.8	13.4	7.8	7.5	7.5	7.1	10.6	7.1	6.7	3.2
60fe09	16.7	13.6	13.4	13.4	14.0	13.4	7.8	8.0	7.6	8.0	14.8	7.1	7.7	3.4
0afcc5	19.0	20.4	20.4	20.2	19.9	19.8	20.9	20.4	20.2	20.0	21.0	19.6	20.0	5.3
72583c		24.2	24.2	24.3	l			17.6	17.6	17.5	25.0		17.6	13.3
417b86	27.0 27.2	24.2	24.2	24.3	24.1 24.2	24.1 24.3	18.0 17.9	17.8	17.6	17.3	24.5	17.9 17.7	17.6	13.3
c67d99	27.4	24.1	24.2	24.3	24.2	23.8	17.8	17.8	17.6	17.7	25.0	17.7	17.5	13.4
cf2f89	31.9	29.6	29.6	29.6	29.9	29.6	23.2	23.0	23.0	23.1	30.5	22.9	22.7	18.4
		29.6	!	29.6		29.6		!	!		30.3	!	23.0	
5eb89e a69a17	33.1	29.3	29.4 29.6	29.7	29.5 29.4	29.7	23.3	22.9 22.5	22.8 22.9	22.6	30.1	22.9	22.6	18.4
bfcd7d	32.8 32.4	29.3	29.6	29.1	29.4	29.4	23.0 23.1	22.3	23.1	22.9 22.9	30.6	22.8 22.8	22.0	18.4 18.6
db06a4	32.4	4.2	3.9	3.9	4.1	3.9	4.1	4.2	4.0	4.1	4.4	4.0	4.0	18.6
9df9bb	32.4	29.5	29.3	29.5	29.5	29.7	23.0	23.2	22.7	23.0	30.6	23.1	22.9	18.5
2b2d95	32.1	33.0	32.9	33.3	32.9	32.9	33.3	33.2	33.3	33.1	34.3	33.3	32.8	18.7
89f716	32.2	29.5	29.6	29.3	29.0	29.6	23.5	23.0	23.5	23.0	30.0	22.8	23.0	18.5
a58a72	31.7	29.3	29.0	29.3	28.6	29.6	22.9	23.0	22.7	22.6	29.7	22.6	22.5	18.4
	31.7	28.8	29.0	29.2		29.3	23.1	23.0	22.7		29.7		22.8	18.3
6cabde a5b6ec	31.7	3.8	3.7	3.7	29.3 3.6	3.8	3.9	3.9	3.9	22.5 3.8	4.1	22.8 3.6	3.5	18.4
d9b90d	31.7	33.1	33.0	33.3	33.3	33.4	33.5	33.4	33.5	33.2	34.4	33.0	32.7	18.4
5caba4	32.8	29.5	29.3	29.1	29.3	29.2	23.1	22.8	23.1	23.0	30.0	22.8	22.8	18.4
3bcd87	32.2	33.5	33.2	33.4	33.6	33.3	33.5	33.8	33.6	33.3	34.2	32.8	33.5	18.4
5ee88f		29.0	29.0	29.0	29.0	28.9	23.0	23.1	23.0	22.6	29.7	!	22.6	18.4
3050d5	32.0 32.1	29.0	29.0	29.0	29.0	29.5	23.0	22.6	22.7	22.6	30.1	22.7 22.5	22.0	18.4
babd76	32.1	28.8	28.9	29.0	29.2	28.9	22.9	22.8	22.7	22.8	29.5	23.0	22.9	18.4
4defd0	32.3	29.6	29.5	29.1	29.3	29.2	22.9	22.8	22.8	22.8	29.3	22.7	22.8	18.4
22d442	46.6	47.0	46.7	46.8	47.5	46.7	48.3	46.8	47.3	46.8	49.0	46.6	46.9	19.2
238dd2	61.8	63.4	61.9	63.2	62.9	62.9	65.1	63.4	64.5	62.5	65.6	63.0	62.3	19.2
34edf5	63.2	48.7	48.6	48.6	49.0	49.1	25.6	25.5	25.7	25.3	50.7	25.7	25.3	20.7
cec23d	64.1	64.5	64.8	64.9	65.0	65.4	66.9	65.3	65.8	65.6	67.0	64.6	64.9	21.1
fb734f	64.6	49.6	48.5	49.3	48.8	48.7	26.0	25.2	25.3	25.4	50.8	25.4	25.7	21.1
d75353	63.6	48.8	49.0	49.3	46.8	48.7	25.8	25.2	25.7	25.4	47.9	25.4	25.7	21.0
36c6a0	64.8	4.7	4.4	4.5	4.4	4.5	5.0	4.6	4.6	4.7	47.9	4.6	4.6	20.8
a5d4b6	64.0	4.7	4.4	4.3	4.4	4.3	4.3	4.3	4.0	4.7	4.6	4.4	4.3	20.8
c17fb9	63.1	49.0	48.8	49.1	48.9	48.9	26.3	25.9	25.8	25.2	51.2	25.9	26.0	20.8
7ad6d4	64.3	65.3	65.7	65.2	65.4	65.0	67.6	66.7	65.3	65.4	68.6	65.7	65.0	20.9
531709	64.3	49.5	49.6	49.2	49.7	49.3	26.2	26.1	25.8	25.4	50.6	25.5	25.4	20.8
331709 sum	1617.1	1262.5	1261.2	1261.9	1252.2	1261.5	995.7	982.0	980.1	973.1	1299.8	973.0	970.7	652.7
	33.0	25.8	25.7	25.8	25.6	25.7	20.3	20.0	20.0	19.9	26.5	19.9	19.8	13.3
mean	33.0	23.0	43.1	23.0	23.0	43.1	20.3	20.0	20.0	17.7	20.5	17.7	19.0	13.3

TABLE XXX: Outcomes of RPS (rps-vms) Yank time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
5709ce	21.7	-22.1	-22.0	-22.4	-21.3	-21.1	-21.8	-21.5	-21.8	-22.2	-22.3	-21.9	-21.6	3.0
76e782	21.4	16.5	16.0	17.6	16.4	17.0	7.4	8.4	8.0	8.2	16.6	7.9	7.9	3.0
b26e90	22.6	3.6	3.4	3.5	3.6	3.3	3.5	3.4	3.4	3.4	3.5	3.2	3.4	3.0
afbca2	21.7	23.3	22.4	23.0	22.4	22.2	22.7	22.0	22.5	22.7	22.6	23.0	22.7	2.9
9245c9	21.8	3.3	3.0	3.5	3.2	3.2	3.0	3.1	3.3	3.1	3.1	3.2	3.0	2.9
88a0df	21.3	15.7	15.6	15.6	15.9	15.3	6.5	7.2	6.9	6.6	15.5	7.0	6.8	3.0
cc7c44	21.9	22.2	22.2	22.7	22.7	22.3	22.3	21.9	22.2	22.5	22.6	22.8	22.4	2.9
6fd980	21.7	3.2	3.1	3.2	3.2	3.2	3.2	3.2	3.3	3.1	3.2	3.1	3.2	2.9
24ff95	21.7	22.2	22.8	23.7	22.2	21.9	23.5	22.1	22.7	23.2	24.0	23.5	23.1	2.9
cfb9b8	22.0	22.0	22.5	22.2	22.8	22.2	22.5	22.2	22.4	22.3	22.7	22.6	22.3	3.0
580435	22.0	23.5	23.6	24.0	22.5	22.9	22.6	22.4	22.9	23.5	23.6	22.7	23.0	3.1
6752dc	22.5	3.6	3.6	3.7	3.8	3.8	3.5	3.7	3.6	3.5	3.4	3.5	3.4	2.9
a13462	22.5	22.5	23.1	22.8	22.8	22.9	22.8	22.7	23.2	22.7	23.5	22.9	22.8	2.9
ed0e73	22.7	17.0	17.0	17.1	16.9	16.6	7.7	8.4	8.6	7.8	16.9	7.6	7.9	3.7
1f3139	23.2	4.1	4.0	4.3	4.2	4.3	3.9	4.2	4.1	4.2	4.2	4.1	4.0	3.7
1031dc	25.4	26.5	26.5	27.0	26.6	26.2	26.6	26.3	26.0	26.6	26.8	26.9	27.1	3.8
sum	356.0	251.4	250.7	256.3	250.6	248.4	223.6	222.6	224.9	225.8	254.6	226.1	224.4	49.8
mean	22.2	15.7	15.7	16.0	15.7	15.5	14.0	13.9	14.1	14.1	15.9	14.1	14.0	3.1

TABLE XXXI: Outcomes of RPS (rps-vms) joda-time time

	I	1 1	1 1					21	1.1	21		2.1	2.1	
sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
381cca	42.4	28.7	29.2	30.0	28.9	28.9	28.4	30.1	29.2	27.8	29.1	28.1	28.6	10.4
eaaff1	43.0	33.6	34.1	33.7	33.1	33.7	33.2	34.0	34.2	33.0	34.4	32.7	33.7	11.2
ca7bec	42.7	10.6	11.2	10.4	10.6	10.8	12.5	10.9	10.9	10.4	10.5	10.0	10.8	10.7
4d84d8	42.6	33.8	33.4	33.2	32.4	23.7	33.1	34.0	32.7	32.4	20.8	22.3	20.5	10.9
f81758	41.8	33.5	33.5	33.0	32.4	23.9	33.6	34.0	32.2	31.9	21.4	22.8	20.7	10.8
dc4376	42.8	27.6	21.9	28.0	17.5	21.8	27.1	28.5	20.1	16.2	16.9	20.7	16.4	10.7
fb2063	42.3	34.5	34.5	32.7	33.1	25.3	34.1	34.1	33.4	31.7	22.0	23.8	21.6	10.5
262448	41.2	33.4	33.5	30.1	18.8	22.6	33.7	29.9	32.3	18.3	16.6	20.9	16.9	10.5
53922f	42.9	34.7	33.8	33.6	33.1	33.0	32.8	34.3	33.7	33.6	34.4	33.5	33.9	11.0
114403	42.2	32.9	33.4	33.9	32.7	32.8	33.4	34.1	32.6	32.0	32.7	32.9	32.8	10.6
52757e	42.1	33.9	33.6	33.2	32.8	33.2	32.8	34.2	34.3	32.7	34.2	32.6	33.6	10.8
acff94	41.9	10.3	10.5	10.4	10.6	10.5	10.9	10.8	10.7	10.1	10.2	9.9	10.7	10.5
67e9e5	41.8	34.2	34.7	33.5	33.6	33.2	33.7	34.3	33.2	32.9	34.7	32.7	33.8	10.5
1e7b4b	42.5	34.7	33.6	34.7	33.4	33.7	33.2	33.8	33.5	32.3	34.3	33.2	33.1	10.7
b3fdbc	42.4	10.5	11.1	10.4	10.3	10.5	10.6	10.6	10.2	9.9	11.2	9.8	10.5	10.4
66825d	42.8	34.4	34.2	34.7	33.9	33.5	34.0	35.3	34.1	33.0	34.7	33.2	34.4	10.7
3ba701	41.7	35.7	35.1	34.4	32.6	25.4	35.0	35.6	33.8	33.0	22.3	24.2	21.3	11.0
b90efa	42.2	10.2	10.4	10.5	10.2	10.7	10.5	10.5	10.9	10.1	10.6	10.1	10.9	10.5
e917d7	42.4	34.2	34.2	35.0	34.9	34.9	34.6	35.1	34.7	34.2	34.9	34.0	35.3	10.6
c5c681	42.7	35.0	35.2	34.7	33.9	25.6	34.9	35.6	34.9	33.2	22.8	23.4	22.5	10.3
dfc0d8	43.0	34.3	34.7	34.6	34.2	34.8	34.1	34.9	34.2	33.6	34.6	33.9	33.8	10.3
f871b0	41.7	34.9	34.3	34.2	34.1	34.4	34.8	34.8	33.8	33.3	35.6	32.8	33.4	10.8
a7e167	42.4	11.1	11.4	11.1	10.9	11.5	11.9	11.1	11.1	11.0	11.4	10.8	11.6	11.5
5f98d6	42.2	10.4	10.9	10.5	10.6	10.7	11.0	10.8	10.5	10.1	11.2	10.5	11.1	10.8
a0aead	41.8	35.2	35.8	35.4	34.3	25.8	35.5	36.0	35.5	32.9	23.6	24.0	22.5	11.0
e9b136	42.8	11.2	11.7	10.9	11.0	10.8	11.3	11.1	11.0	10.5	10.7	10.3	11.2	10.9
b72a1f	42.4	36.5	37.4	35.9	35.7	35.7	36.3	36.4	35.3	34.8	36.8	35.6	36.3	11.0
6a4ee6	42.6	36.5	36.5	37.0	36.6	37.0	36.6	37.3	35.3	35.9	36.9	35.9	36.3	10.5
f4a109	42.4	36.7	35.8	36.1	36.3	35.6	36.1	36.7	34.6	35.8	37.1	34.8	36.7	10.8
8429e5	42.9	36.7	37.4	34.5	32.2	24.8	36.0	34.5	35.9	31.9	22.8	23.6	21.2	11.2
124fd3	42.0	10.4	11.1	11.0	10.4	10.6	10.7	10.7	11.5	10.0	10.6	10.3	10.8	11.1
ac9b98	42.0	36.5	36.9	35.3	32.4	25.1	37.3	34.6	36.1	31.6	22.2	23.7	21.5	10.5
adacfb	42.3	10.8	11.3	10.8	10.6	10.9	10.9	10.7	10.6	10.1	11.0	10.5	10.8	10.7
d4a2c3	43.0	46.8	45.3	44.6	44.9	45.2	47.1	49.0	46.5	45.6	45.9	46.5	48.1	11.1
638153	42.5	37.1	37.1	36.9	36.6	36.6	35.5	36.8	36.2	35.0	37.4	36.2	37.2	11.2
5a3cb2	42.1	37.2	37.0	34.2	32.8	25.0	36.2	35.0	36.6	32.3	23.1	23.2	21.5	11.0
e98903	42.9	10.6	11.5	10.7	10.5	11.2	10.6	11.0	10.3	10.2	11.2	10.5	10.9	11.0
b65434	43.4	10.8	10.9	10.9	11.2	10.8	10.9	10.6	10.9	10.2	10.8	10.7	11.2	11.2
8213a1	43.4	37.3	37.2	36.5	36.7	36.4	36.4	36.9	36.1	35.9	36.6	35.4	36.2	11.1
75ab8c	43.1	11.2	11.3	11.2	10.9	10.9	11.2	11.1	10.6	10.3	12.0	10.5	11.0	10.6
ed9d0a	42.8	37.4	36.6	36.4	36.8	36.7	36.1	36.9	35.5	35.8	37.5	35.6	36.6	10.9
e2f678	43.2	37.4	38.2	36.8	37.3	37.0	36.6	37.9	36.4	35.8	37.8	37.3	37.8	11.0
12559d	42.3	44.4	43.4	43.9	43.6	43.6	42.3	44.0	41.9	42.4	44.8	42.4	43.1	10.8
804e5d	43.3	43.4	43.4	40.9	38.6	31.3	42.3	41.2	41.0	37.5	28.1	28.4	26.8	10.8
bdcb70	42.9	42.9	41.7	39.2	24.3	30.1	41.2	39.9	40.4	22.8	22.3	27.2	22.0	10.6
87dcb3	42.0	15.5	16.0	15.7	15.8	15.6	15.8	15.7	16.2	15.0	16.0	15.1	16.2	11.1
52a03c	42.6	41.5	41.8	40.3	23.6	29.4	40.9	39.7	41.0	23.0	22.0	27.6	22.0	10.9
c13ba8	42.3	42.3	42.6	39.2	24.2	30.4	40.8	40.0	40.4	22.7	21.8	27.6	22.0	10.8
872d99	42.3	42.4	42.7	39.1	23.6	29.9	41.6	39.9	40.8	23.2	21.9	27.4	21.7	10.5
sum	2081.0	1455.9	1453.0	1424.0	1319.8	1275.8	1440.2	1444.5	1417.5	1287.9	1222.3	1229.0	1203.5	529.2
mean	42.5	29.7	29.7	29.1	26.9	26.0	29.4	29.5	28.9	26.3	24.9	25.1	24.6	10.8
mean	74.3	27.1	27.1	27.1	20.7	20.0	27.7	27.3	20.7	20.5	27.7	23.1	27.0	10.0

TABLE XXXII: Outcomes of RPS (rps-vms) compile-testing time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
6b89cd	31.8	22.1	21.6	22.1	23.4	22.4	13.3	13.3	13.4	12.9	23.3	12.6	12.3	5.7
fe6edd	30.4	17.3	16.4	17.5	17.9	17.4	11.6	11.9	11.5	11.1	17.9	10.7	10.7	5.7
8e9ce9	30.9	30.1	30.3	30.6	33.2	31.3	32.0	30.9	32.9	30.3	31.6	30.9	30.9	5.6
4006c1	31.3	30.2	30.4	30.4	32.6	31.4	31.5	31.5	33.2	31.1	32.4	30.3	30.6	5.8
e5e4ee	31.4	22.0	21.5	22.1	23.3	22.3	13.0	13.0	13.4	12.6	22.1	12.4	11.7	5.8
4dd5fd	31.3	30.1	30.6	31.8	33.1	32.4	32.0	32.1	32.6	30.3	32.0	31.2	31.9	5.7
0ef7e5	32.1	9.0	9.0	8.9	10.1	9.6	9.3	9.4	9.4	9.2	9.3	9.1	9.3	5.6
cc5a56	31.3	30.3	30.5	30.8	32.7	31.8	31.5	32.0	32.3	30.5	32.9	30.5	30.2	5.8
49c254	33.6	32.2	31.4	32.0	33.3	32.9	32.6	32.5	33.4	31.4	33.4	31.7	31.6	5.7
ebbc46	31.8	32.1	33.0	31.6	33.0	33.4	34.1	32.1	33.8	31.8	33.4	32.4	33.2	6.1
762247	36.9	26.7	26.5	26.9	27.5	27.3	13.6	13.4	14.4	13.5	27.6	13.1	13.2	6.2
99aed6	38.3	25.5	25.7	25.6	27.0	26.9	13.4	13.2	13.5	13.0	27.5	12.4	12.1	5.9
2678c3	38.8	37.2	36.7	36.9	38.1	38.1	38.5	38.7	39.5	37.0	38.6	37.1	38.1	6.3
acf6ae	37.9	37.8	37.1	37.6	38.8	37.9	39.0	37.4	38.8	37.9	38.4	37.3	36.8	6.1
7d31b5	38.8	27.6	26.6	27.1	28.1	28.3	13.9	13.2	13.5	13.0	27.7	12.2	12.3	6.3
3f1f22	37.9	36.7	37.1	37.3	39.8	38.5	38.3	38.0	38.5	37.5	39.4	37.1	36.8	6.5
0f4e55	37.4	5.0	5.1	4.9	5.5	5.3	5.3	5.2	5.6	4.9	5.4	4.9	4.9	6.1
20f6d4	39.8	26.7	26.8	26.1	27.1	26.6	13.4	13.1	13.4	12.9	26.6	12.0	12.3	6.2
6b3290	37.7	27.4	27.2	27.5	27.6	28.7	13.8	13.8	14.2	13.4	26.8	13.1	13.1	6.2
9ec074	38.9	27.5	26.9	27.5	27.5	28.3	13.7	13.5	14.2	12.7	26.7	13.3	12.8	6.2
38f6d0	38.0	26.9	27.3	27.3	26.5	28.2	13.7	13.7	14.2	13.4	26.6	13.0	12.2	6.2
ac382a	38.7	5.3	5.0	5.0	5.2	5.3	5.3	5.1	5.5	5.1	5.2	4.9	5.1	6.0
dd93c0	39.4	4.9	5.2	5.3	5.6	5.3	5.5	5.2	5.2	5.0	5.5	5.1	4.7	6.3
d34c5c	37.9	23.2	22.7	22.9	23.0	23.7	12.7	12.2	12.8	11.9	22.9	11.6	11.6	6.3
f04802	38.0	25.6	26.0	26.2	10.4	26.7	13.5	12.9	13.1	9.6	9.8	12.1	9.6	6.3
b3d432	38.5	27.2	25.9	27.6	10.9	27.3	14.0	13.5	13.7	10.4	10.8	12.5	10.8	6.1
e95757	38.4	5.7	6.0	5.8	5.9	6.0	5.9	6.2	6.3	5.5	6.2	5.9	5.8	6.1
b4eaa9	39.3 38.7	28.4 5.6	27.9 5.6	28.2 5.9	28.3	29.8 6.2	14.7 6.3	14.3 6.4	15.0	13.6 5.7	27.9 6.2	13.7	13.1 6.0	6.5
ffc732 b867b4	39.5	6.0	5.8	5.8	5.8 6.3	5.8	6.3	5.9	6.5 6.3	5.5	5.8	6.1	6.0	6.4
90f7d6	38.1	6.3	5.8	6.4	6.4	6.8	6.3	6.3	6.6	6.3	6.2	6.6	6.2	6.6
2a47a5	38.8	6.5	6.3	6.4	6.4	6.9	6.6	6.9	6.6	6.3	6.9	6.6	6.6	6.3
cd2c0a	39.0	28.7	27.8	27.4	28.2	28.3	14.2	14.2	14.5	13.4	29.2	13.5	12.9	6.6
80a9ee	40.3	28.7	28.4	29.4	29.6	28.6	14.3	14.0	14.5	14.4	29.5	13.3	14.5	6.4
95e749	39.8	41.2	40.9	40.2	41.7	41.7	42.6	42.0	41.8	40.3	42.5	39.9	40.8	6.4
a959de	40.8	30.2	30.3	30.2	31.0	30.8	15.2	15.4	15.9	14.7	31.1	14.4	14.8	7.1
1f8424	39.7	30.1	29.3	29.8	29.5	30.9	14.9	14.4	14.7	13.9	29.3	14.2	13.1	6.6
cb6486	41.0	40.3	40.8	40.6	42.5	42.2	41.4	41.6	43.0	39.7	41.4	41.0	40.4	6.4
c46b1b	39.7	39.8	40.4	40.8	42.4	42.1	42.7	41.7	43.3	40.1	42.3	42.4	40.7	6.5
bcad50	40.1	40.0	40.9	40.8	43.1	41.3	42.3	42.2	42.9	40.4	41.8	40.1	40.8	6.1
620d23	39.6	40.2	40.4	39.7	42.8	41.7	41.1	42.0	41.7	40.0	41.1	41.2	39.7	6.3
626025	41.5	39.6	41.1	40.1	42.5	41.6	41.5	42.0	43.1	40.2	42.2	41.5	40.6	6.7
3b9095	39.6	40.2	40.8	40.7	41.9	41.1	41.3	41.4	43.1	40.9	42.5	41.1	40.9	6.1
fd1e44	40.5	29.3	29.4	29.8	29.6	29.9	14.6	14.2	15.2	13.7	28.9	13.3	13.0	6.6
1fee4c	40.4	6.1	6.1	5.8	6.1	6.4	6.4	6.3	6.8	6.0	6.7	6.0	5.7	6.6
b748f6	40.1	40.2	40.1	40.0	42.5	42.9	42.9	42.5	43.5	40.9	41.5	40.7	40.8	6.5
115014	40.5	41.4	41.1	40.7	42.2	41.9	42.2	42.5	43.2	40.2	43.9	42.2	40.5	6.5
5dc482	39.7	29.7	28.9	28.8	31.5	30.1	14.2	14.5	14.9	14.1	29.6	13.4	13.4	6.7
1148d3	40.6	6.2	6.6	6.9	7.0	6.6	7.4	6.7	7.1	6.7	6.7	6.4	6.6	6.8
sum	1844.4	1257.1	1253.5	1259.7	1274.6	1296.8	1034.0	1024.6	1052.5	985.2	1263.4	993.0	981.9	305.7
mean	37.6	25.7	25.6	25.7	26.0	26.5	21.1	20.9	21.5	20.1	25.8	20.3	20.0	6.2

TABLE XXXIII: Outcomes of RPS (rps-vms) zt-exec time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
c58216	26.0	18.7	18.5	18.3	18.1	18.2	17.3	17.6	17.9	17.3	18.0	16.9	17.0	13.1
c5b972	25.5	25.3	24.9	24.7	24.6	24.8	18.5	18.6	19.1	18.6	23.9	17.8	18.3	13.2
e8609f	25.4	4.1	3.8	3.7	3.9	4.3	4.1	4.0	3.9	3.8	3.9	3.7	3.7	13.1
d964c0	25.9	26.0	24.8	24.5	24.8	25.8	18.6	18.3	18.9	18.4	24.7	18.2	18.7	13.3
d6766d	28.0	27.6	27.4	26.7	26.2	28.2	20.4	20.9	21.0	19.9	26.1	19.9	20.3	15.3
46c33c	28.0	27.8	26.9	27.4	26.3	27.1	20.6	20.7	20.9	20.6	26.1	19.8	20.1	14.9
fa782b	28.5	27.1	26.7	26.2	23.1	26.3	20.8	20.8	20.3	19.5	22.5	19.5	19.4	15.8
28ceb1	28.5	27.3	26.9	26.8	26.3	27.1	20.9	20.7	20.7	20.5	25.6	20.3	20.4	15.3
eebd89	28.6	26.9	26.5	26.5	26.5	27.1	20.1	20.8	20.9	19.9	25.8	19.8	20.0	15.2
7a7a4b	28.5	27.2	26.5	26.6	26.3	26.7	20.2	20.3	20.7	19.9	26.0	20.1	20.2	15.2
8ff8fa	28.3	27.5	27.0	27.1	26.3	28.0	20.6	20.9	21.1	20.4	26.5	20.0	19.9	15.3
a47b4c	28.6	26.9	26.7	26.3	26.3	26.6	20.6	20.5	20.7	20.2	26.5	20.0	20.7	15.2
0a5f14	28.0	4.0	3.7	3.6	3.6	3.6	3.5	3.7	3.7	3.6	3.6	3.5	3.7	15.0
6bdce0	28.2	28.1	27.7	27.6	27.3	27.9	20.6	20.9	21.2	20.3	26.5	20.2	20.6	15.1
sum	386.0	324.5	317.9	315.9	309.6	321.8	246.9	248.8	251.1	242.8	305.8	239.7	242.9	204.9
mean	27.6	23.2	22.7	22.6	22.1	23.0	17.6	17.8	17.9	17.3	21.8	17.1	17.3	14.6

TABLE XXXIV: Outcomes of RPS (rps-vms) java-configuration-impl time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
cd27a2	19.6	3.7	3.9	3.8	4.0	3.8	3.7	3.9	4.2	3.8	4.0	3.8	3.7	3.2
cd1a4d	20.1	8.6	9.2	8.5	8.7	9.3	7.5	7.5	7.4	6.8	9.0	6.8	6.7	3.3
26bb9f	20.6	7.6	8.3	7.7	7.8	8.3	6.7	6.6	6.6	6.1	7.9	6.1	5.9	3.3
becbb1	20.3	7.3	8.5	7.9	6.2	7.9	6.4	6.7	6.7	6.0	6.2	6.1	6.4	3.3
e61648	21.2	22.1	21.9	22.0	23.3	21.7	23.4	22.5	22.9	22.1	21.8	22.1	21.6	3.3
97a683	21.0	8.1	8.1	8.0	6.2	8.4	7.2	6.9	6.7	6.2	6.4	6.5	6.1	3.5
08363d	21.0	7.8	8.1	7.8	8.5	8.5	7.0	6.7	6.4	6.2	7.9	6.3	6.2	3.6
cee296	20.9	3.8	3.9	3.9	4.1	3.9	3.9	4.2	3.9	3.8	3.8	3.7	3.7	3.4
5ba64c	21.0	6.1	6.0	6.4	6.4	6.5	6.4	6.5	6.2	5.9	6.4	6.1	6.0	3.3
67efdf	21.3	6.0	6.4	6.1	6.5	6.4	6.3	6.5	6.4	6.0	6.3	6.0	6.4	3.4
866f72	21.2	6.4	6.7	6.3	6.8	6.7	6.8	7.0	6.5	6.3	7.1	6.3	6.2	3.5
00a783	21.2	6.5	6.6	6.4	7.0	6.7	7.0	6.6	6.7	6.1	6.5	6.2	6.2	3.5
b99f46	22.7	11.1	11.8	11.8	12.7	11.7	7.5	8.0	7.8	7.4	12.3	6.9	7.3	3.9
470fdf	34.6	35.2	34.9	35.1	37.1	36.4	35.7	36.7	36.5	33.8	34.9	34.9	34.5	4.4
26cd1e	35.0	14.3	14.4	14.8	7.7	15.5	8.6	8.8	8.4	7.1	7.6	7.8	7.2	4.3
459f7b	35.0	14.7	14.4	14.2	7.8	14.6	8.8	8.5	8.7	7.0	8.1	8.1	7.4	4.6
ef6525	33.2	14.2	14.1	14.5	7.6	14.4	8.4	8.9	8.7	7.2	7.5	7.9	7.4	4.3
b68766	34.5	4.2	4.5	4.5	4.2	4.7	4.4	4.7	4.8	4.6	4.5	4.4	4.3	4.4
88ada8	33.6	14.1	14.5	14.3	15.1	14.8	8.6	8.4	8.7	7.9	14.9	7.9	8.1	4.3
bd8bf4	36.6	38.1	38.5	38.1	39.9	38.3	39.2	39.4	39.4	38.2	38.7	38.0	37.9	4.4
39fe0a	36.3	14.7	15.3	7.5	7.7	7.6	8.7	7.8	8.6	7.1	7.2	7.4	6.9	4.6
7d7c4e	37.8	27.3	27.6	27.3	28.0	27.8	9.8	10.0	9.7	8.9	27.7	9.0	8.8	4.3
ed86d0	40.3	4.3	4.8	4.5	4.5	4.7	5.0	4.8	4.6	4.5	4.8	4.3	4.2	4.7
sum	629.2	286.1	292.8	281.6	267.6	288.6	237.0	237.6	236.4	218.8	261.7	222.6	219.3	88.9
mean	27.4	12.4	12.7	12.2	11.6	12.5	10.3	10.3	10.3	9.5	11.4	9.7	9.5	3.9

TABLE XXXV: Outcomes of RPS (rps-vms) embedded-jmxtrans time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
1b2955	27.0	25.9	25.2	24.4	25.5	25.5	10.6	10.8	11.6	10.7	25.0	10.7	11.9	2.9
ef88f3	27.0	25.9		24.4	23.3	23.3	9.6	9.8	9.5	9.7	23.0	9.4	9.9	3.0
64e65a	26.6	24.9	23.6 23.2	23.2	17.5	24.3	10.5	10.7	9.5	9.7	16.6	9.4	8.3	3.0
51e075	26.0	4.3	4.2	4.0	4.2	4.2	3.9	4.0	9.6 4.1	4.2	4.2	4.0	4.0	3.0
5bffe4	27.4	24.1	24.1	22.3	22.7	22.7	9.5	9.6	9.5	9.3	22.0	9.2	9.6	3.3
59e1a4	27.4	24.1	23.6	22.3	23.9	22.7	9.5	9.5	9.7	9.5	22.4	9.2	9.8	2.9
bf18d2	27.0	25.3	23.9	22.3	22.8	22.7	9.4	9.7	9.7	9.3	22.4	9.4	10.2	3.0
62c71b	46.3	46.5	45.5	45.5	46.2	45.8	44.7	45.6	45.8	44.6	45.7	45.2	45.7	3.8
e4a4c2	45.0	37.6	36.1	36.1	33.1	36.6	9.4	9.5	39.4	9.2	30.5	38.8	7.6	3.3
345190	45.9	39.9	38.5	36.6	37.7	37.1	10.0	10.2	10.0	9.2	36.9	9.7	10.0	3.3
a672b6	45.0	37.3	35.8	36.2	32.6	36.3	9.4	9.7	8.9	9.3	30.2	8.7	7.9	3.4
4f713f	45.8	39.2	39.0	36.6	38.1	37.4	9.7	9.8	9.9	9.7	36.2	9.1	9.5	3.2
78bb73	45.4	37.9	36.4	36.2	32.1	36.4	9.5	9.7	39.1	9.0	30.4	38.8	8.1	3.2
4bea3b	45.0	40.1	39.2	36.5	37.5	37.3	9.9	10.1	9.9	10.0	36.7	9.7	9.9	3.3
1f8b32	45.4	37.7	35.8	35.3	22.2	35.8	9.5	9.6	38.7	8.7	20.8	38.4	7.2	3.4
616624	45.2	37.7	36.0	35.3	22.2	35.6	9.5	9.5	38.6	8.6	20.8	38.5	7.7	3.3
656e0c	45.2	39.6	39.1	36.4	37.7	37.0	10.0	9.8	10.1	9.7	37.0	9.6	9.8	3.3
d5a3ad	45.1	38.6	37.3	38.0	26.2	37.0	9.8	9.7	38.6	8.7	24.1	38.5	7.4	3.2
dc83d7	45.8	4.1	4.2	3.9	4.1	4.1	3.9	3.7	4.0	3.9	4.1	3.7	4.0	3.4
865ea1	44.3	38.8	37.7	35.8	35.0	36.8	9.9	9.8	9.5	9.8	33.2	8.8	8.5	3.2
6e849a	47.0	37.7	36.7	36.3	32.0	37.1	9.7	9.8	9.1	9.4	30.3	9.0	7.9	3.2
8f848b	45.9	38.5	38.1	37.0	38.1	37.5	10.1	10.3	10.2	9.8	36.4	9.6	8.5	3.1
e373b6	45.4	46.7	45.1	45.5	46.3	45.6	45.2	44.7	45.8	44.3	44.4	45.3	45.7	3.3
531f04	46.1	40.2	39.3	37.9	38.6	38.3	10.2	10.4	10.8	10.1	37.5	10.0	10.3	3.2
4d8cc3	44.8	43.2	42.1	40.7	39.4	40.6	10.6	10.5	10.4	10.2	37.9	9.1	8.6	3.4
6d7f22	45.7	42.7	41.6	38.5	39.3	39.4	10.6	10.1	10.4	10.1	38.1	9.9	10.2	3.4
a1a71d	45.1	4.2	4.1	3.9	4.2	3.9	3.8	4.1	4.1	3.9	4.2	3.9	4.1	3.4
d7f390	44.4	42.3	40.1	40.2	38.4	40.5	10.2	10.6	9.5	10.0	35.7	8.7	8.2	3.5
7afbce	45.1	4.3	3.9	3.7	4.2	3.9	3.9	3.9	4.1	3.9	3.8	3.9	4.3	3.4
3474fc	48.2	48.7	47.0	46.8	49.0	47.7	47.5	47.5	47.7	46.4	46.9	46.9	48.5	3.3
0ad3b2	48.2	49.2	47.7	46.9	48.4	48.8	47.8	47.5	47.6	47.6	47.7	47.2	48.8	3.7
12d9ed	47.9	39.8	37.9	38.3	38.1	37.4	11.6	12.0	10.1	11.3	35.4	9.7	9.0	3.6
8580ef	48.0	40.1	37.9	38.0	38.0	38.0	11.8	12.2	10.3	11.7	35.6	9.4	9.0	3.6
dc18de	49.6	48.9	48.0	48.8	49.3	49.5	48.3	48.6	49.1	48.1	48.7	48.4	49.7	3.6
ee17a6	48.0	44.4	40.8	42.7	39.6	40.2	12.2	12.0	9.8	12.0	36.9	9.1	8.4	3.6
a54258	47.7	42.7	40.9	41.8	25.9	40.8	11.7	11.7	9.2	10.1	23.2	9.1	7.8	3.5
89df2c	48.4	40.5	38.1	38.5	34.8	38.2	11.9	11.7	39.5	11.0	31.9	39.3	8.2	3.8
b81845	48.7	44.2	41.0	43.4	40.1	40.8	12.6	12.3	39.5	12.0	36.8	39.3	8.5	3.4
53a984	48.8	40.4	38.5	38.8	36.2	38.7	11.9	12.0	39.7	11.6	32.6	39.4	8.6	3.7
11c7de	47.6	41.8	37.7	39.0	35.0	37.7	11.6	11.7	39.6	11.4	32.6	39.7	8.3	3.6
1ed452	47.7	46.6	45.3	41.0	41.0	41.6	12.1	12.0	12.8	12.2	40.4	12.0	12.1	3.5
48412f	48.2	45.7	45.0	41.4	41.9	42.0	12.2	12.1	12.6	11.9	41.1	11.7	12.6	3.6
bfd614	49.0	45.8	44.5	43.0	41.7	43.0	12.5	12.3	12.3	12.0	40.2	11.5	10.9	3.7
bfb812	48.4	48.9	48.9	47.0	47.9	48.3	47.3	48.0	48.0	47.0	47.8	48.0	49.2	3.6
93e572	48.4	43.6	40.1	42.4	39.2	40.3	12.0	12.3	10.1	12.0	36.0	9.6	8.8	3.7
fb570a	48.5	4.4	4.4	4.0	4.3	4.3	4.1	4.3	4.2	4.0	4.1	4.0	4.3	3.7
f11867	50.3	48.2	46.7	45.9	44.6	46.8	14.8	14.9	14.8	14.6	43.3	14.5	14.1	10.2
fc4ca5	50.2	45.8	42.9	43.8	29.1	42.7	13.9	14.3	11.5	12.2	26.1	10.9	10.1	10.2
4f1ce2	64.6	63.5	62.6	62.3	63.5	63.5	34.7	34.2	34.3	38.9	63.0	38.4	39.2	25.2
sum	2174.5	1801.4	1735.3	1707.1	1612.5	1714.9	735.1	738.4	983.4	723.4	1540.7	966.4	690.7	201.1
mean	44.4	36.8	35.4	34.8	32.9	35.0	15.0	15.1	20.1	14.8	31.4	19.7	14.1	4.1

TABLE XXXVI: Outcomes of RPS (rps-vms) jgroups-aws time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
e7896f	1.8	-2.4	-2.5	-2.5	-2.4	-2.6	-2.7	-2.5	-2.4	-2.4	-2.5	-2.9	-2.5	1.8
4b32fa	2.0	3.8	4.0	3.8	3.8	4.0	3.9	3.9	3.9	3.8	4.0	4.0	4.0	1.9
bcf770	1.9	-2.6	-2.6	-2.5	-2.4	-2.7	-2.5	-2.5	-2.9	-2.7	-2.6	-2.6	-2.7	1.9
0c4990	2.0	7.5	7.7	6.8	6.5	7.7	7.0	7.0	7.4	7.5	7.3	7.5	7.6	1.8
c5e9f0	1.9	5.0	5.3	5.1	5.2	5.5	5.2	5.3	5.4	5.4	5.3	5.5	5.2	1.9
83fa1c	25.9	25.5	25.6	25.6	25.8	26.3	25.7	26.0	25.9	26.3	27.0	25.2	26.0	3.4
83da98	25.2	3.4	3.5	3.5	3.8	3.5	3.9	3.5	3.6	3.7	3.5	3.7	3.6	2.9
f70cbf	29.0	29.2	29.6	29.3	29.5	29.8	29.5	29.2	29.7	30.7	30.1	29.1	30.0	3.2
1091a4	29.7	23.6	25.0	24.0	23.7	24.7	8.5	8.2	8.4	9.0	25.1	8.7	8.6	3.0
b3f243	26.3	25.1	25.2	25.8	24.9	25.1	26.1	25.3	26.1	25.4	25.6	25.9	26.4	3.0
741c3d	53.8	50.4	51.0	51.8	50.8	50.7	51.5	51.5	50.2	50.9	51.0	51.2	52.1	3.6
2ac9b9	52.5	3.9	4.1	3.8	3.7	4.1	3.8	3.8	3.9	3.9	4.0	4.1	3.9	3.5
480443	53.6	3.7	4.0	3.7	3.7	3.8	3.9	3.9	4.0	3.8	4.2	4.0	3.8	3.4
771d8f	52.4	11.8	12.5	12.7	12.5	13.0	7.9	7.5	8.0	7.9	12.4	8.0	7.8	3.5
1388b8	52.6	12.1	12.6	11.6	11.7	12.5	7.3	7.2	7.1	7.2	12.4	7.2	7.2	3.6
a90a3e	53.8	11.7	12.8	12.3	11.3	12.6	7.3	6.9	7.1	7.6	11.6	7.5	7.6	3.5
sum	464.5	221.7	228.0	224.8	221.8	228.4	196.8	194.3	196.0	198.1	228.5	197.1	199.0	45.9
mean	29.0	13.9	14.3	14.0	13.9	14.3	12.3	12.1	12.3	12.4	14.3	12.3	12.4	2.9

TABLE XXXVII: Outcomes of RPS (rps-vms) datasketches-java time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
e2fb43	-89.4	-80.7	-54.6	-85.6	-80.9	-56.0	-80.7	-80.2	-52.2	-81.9	-56.7	-54.1	-53.9	-41.9
1ba334	-88.1	-78.8	-53.6	-88.6	-79.4	-55.1	-80.9	-79.3	-52.4	-80.1	-55.6	-53.4	-53.3	-43.2
1436f3	-86.6	-82.1	-63.3	-86.9	-79.2	-65.9	-82.0	-80.1	-60.7	-79.4	-64.8	-63.9	-62.3	-42.4
ad19fb	85.2	56.3	51.7	56.8	51.9	55.6	55.4	54.1	52.2	54.7	55.6	51.8	50.9	42.1
843c40	87.4	22.6	21.1	23.7	21.6	22.8	22.3	22.5	21.0	21.9	22.5	21.5	21.2	43.5
4a8281	-88.2	-80.3	-61.4	-88.1	-79.2	-66.6	-79.6	-83.9	-62.1	-83.2	-66.3	-65.4	-64.0	-41.5
856926	-87.8	-87.7	-55.7	-94.5	-85.1	-57.6	-88.1	-86.5	-54.5	-87.2	-58.2	-54.1	-53.8	-42.9
1cc496	-88.7	-85.3	-54.8	-92.9	-79.2	-58.4	-91.8	-83.8	-54.7	-80.6	-54.2	-53.7	-52.1	-43.1
4ede21	-89.9	-86.9	-55.0	-91.3	-87.4	-58.3	-85.5	-86.3	-54.4	-86.8	-57.7	-54.1	-53.5	-41.9
851ec9	-89.8	-80.2	-63.0	-89.5	-80.2	-65.3	-80.7	-81.3	-62.0	-81.3	-65.8	-62.2	-62.8	-42.8
fcc7e1	-87.7	-84.3	-62.6	-93.7	-90.0	-66.6	-86.9	-85.9	-63.6	-87.3	-65.8	-64.5	-63.9	-41.2
75f72c	-85.2	-85.3	-62.2	-91.4	-80.1	-66.8	-83.5	-84.2	-63.2	-78.1	-63.4	-63.3	-58.9	-42.4
b27fff	83.9	85.1	64.8	93.9	83.8	66.8	84.3	84.0	62.1	82.3	66.6	63.1	62.3	39.6
23ae68	84.8	84.3	63.4	92.7	82.2	66.6	82.8	80.8	61.9	79.8	68.0	62.3	62.0	39.8
20a6b0	85.2	84.9	63.7	90.0	91.1	65.9	83.4	81.5	62.2	88.0	66.4	63.3	63.4	40.7
08e0e2	86.5	78.3	50.4	83.0	76.8	54.3	77.7	77.7	50.2	76.8	52.3	50.0	50.7	39.6
f3a611	89.7	82.0	51.8	94.9	76.3	55.2	83.2	81.7	51.8	77.3	51.8	51.5	49.4	40.8
1c524d	86.1	84.5	62.1	91.4	88.7	68.2	82.1	82.0	62.8	84.7	65.9	61.7	62.5	40.3
562887	85.3	22.3	21.0	23.5	21.2	21.7	22.6	21.5	20.5	22.5	22.6	20.6	21.1	40.9
f0d5e1	-75.6	-44.4	-41.5	-46.0	-43.6	-44.2	-45.5	-44.1	-42.0	-44.3	-43.3	-42.1	-42.7	-31.8
cf919f	-75.5	22.3	19.9	23.5	21.1	21.7	21.9	22.4	20.6	21.7	21.7	20.7	20.6	-31.8
70f181	74.2	42.4	40.7	45.0	66.4	42.5	43.2	42.8	39.9	68.2	43.6	41.6	42.0	31.5
e2d8f0	75.8	43.5	40.7		42.1	44.0	43.8		41.1	43.8		41.1		31.5
91b26c	75.8	44.0	40.8	45.6 -45.9	42.1	44.9	43.4	43.6 43.7	42.1	45.8	43.7 44.7	42.0	40.6 42.2	30.6
92cc12	-76.0	-43.5	-41.0	-45.7	-42.4	-43.4	-44.0	-44.2	-42.5	-44.3	-43.5	-41.6	-41.8	-31.3
3ca1be	77.2	43.3	41.7	45.5	42.4	44.0	43.4	42.2	41.2	43.1	43.4	40.6	42.0	30.7
55e820	76.0	43.9	41.7	46.2	42.4		43.7	44.1	41.7	44.3	43.4	41.6	41.5	31.0
	76.0	43.4	42.0	46.2	42.0	44.2	44.7	l	41.7			42.4	1	31.8
11672b 83c11b	75.3	45.5	44.6	46.2	45.6	43.7 45.7	46.5	43.6 45.6	43.6	44.5 45.4	43.5 44.5	43.7	41.4 42.3	31.6
1	1	1	1	40.9							44.3 45.0	43.7		30.9
d93a6b 5aba00	76.2 -74.4	43.6 -43.7	41.5 -41.5	-46.1	42.7 -43.0	44.6 -43.3	44.3 -43.8	44.0 -43.1	42.7 -40.3	45.6 -43.3	-43.0	-42.7 -42.1	42.4 -42.4	-31.3
9622f1	-74.4	22.3	20.8	23.5	21.5	22.4	22.0	21.8	21.1	22.1	21.6	20.9	20.8	-31.5
ac0aa6	78.7	43.8	40.8	46.3	43.1	44.1	43.9	43.8	41.5	43.8	43.3	42.0	42.5	31.6
0eda5e	74.7	44.5	41.9	46.9	43.7	44.1	45.3	44.3	42.1	43.7	44.2	42.4	42.3	31.5
6d9e9e	78.4	44.3	41.9	45.6	73.0	43.2	43.3	44.3	42.1	74.6	51.0	42.4	42.8	31.6
42eb24	76.0	44.1	43.0	47.5	42.6	45.2	44.1	44.3	43.3	45.1	44.5	43.5	43.0	32.1
063d1a	74.3	44.8	43.0	46.6	42.6	44.3	44.6	44.2	43.3	44.2	44.0	43.3	42.9	32.1
3a6f18	76.3	49.5	44.6	50.1	45.5	47.7	44.6	46.8	43.6	44.2	46.9	45.3	44.7	33.5
ce9bed	76.5	49.3	43.8	48.0	43.3	45.3	47.6	45.0	43.0	46.1	46.9	43.3	44.7	32.0
045e38	1	49.6	43.8	51.3	47.9		49.8	49.5	47.0	50.3		47.0	1	32.0
85a09d	75.6 78.1	49.6	44.9	45.4	43.3	50.3 42.3	49.8	49.5 42.9	41.0	43.2	49.7 43.6	41.2	48.1 41.1	32.1
4a82e4	75.3	22.4	20.9	23.6	22.0	23.1	22.3	22.7	21.2	22.0	22.2	21.0	21.4	32.2
1	1	22.4	ı	!	ı	1	22.3	22.7	20.6	I		l	1	32.2
e5081d	78.7		20.8	24.0	21.3	21.9				22.1	22.3	21.4	20.6	
499a44	76.2	44.8	42.8	46.9	44.7	45.6	45.4	44.6	42.7	46.5	45.1	43.9	41.9	31.9
320a3d	74.3	22.2	20.9	24.1	21.6	22.2	22.2	22.7	21.1	22.3	22.0	21.5	20.7	31.6
d6ce71	76.4	45.7	43.1	48.5	42.1	46.0	46.7	45.9	43.0	46.2	46.0	42.9	43.3	34.5
28ec92	78.3	72.8	45.3	82.3	73.6	48.2	76.5	74.2	44.5	73.5	46.2	43.9	43.7	33.0
sum	3785.2	2598.5	2113.4	2782.8	2604.8	2236.3	2608.8	2581.0	2104.1	2640.6	2221.6	2119.7	2113.3	1683.3
mean	80.5	55.3	45.0	59.2	55.4	47.6	55.5	54.9	44.8	56.2	47.3	45.1	45.0	35.8

TABLE XXXVIII: Outcomes of RPS (rps-vms) jbehave-junit-runner time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
989cea	69.6	39.9	37.9	40.7	39.6	39.7	10.9	11.2	10.3	10.9	38.1	9.9	9.5	4.8
989cea 9f8fe5	71.7	40.9	40.0	40.7	39.0 41.0	39.7 40.4	10.9	10.3	9.9	10.9	39.8	9.9	9.5	4.8
3c2e58	69.9	42.2	40.8	40.9	38.9	40.4	10.2	10.3	9.9	10.4	37.5	9.7	8.7	4.7
6756fd	71.4	41.6	39.6	41.4	39.5	41.1	10.0	10.4	9.5	10.0	38.3	9.5	9.0	4.8
eafa46	69.0	45.8	44.5	36.8	36.9	36.8	10.2	10.2	9.5	9.5	36.1	8.4	8.1	4.8
15cc3d	71.8	3.8	3.7	3.9	3.7	3.6	3.8	3.9	3.7	4.0	3.5	3.7	3.6	4.8
0be34d	68.5	31.2	29.7	30.7	30.6	29.6	9.8	9.4	8.2	9.6	30.5	8.2	8.4	4.6
c76b75	69.6	46.0	44.4	41.2	41.5	40.8	10.4	10.1	9.7	10.7	39.9	9.3	9.3	4.7
1c33a7	69.6	47.4	45.9	46.1	46.9	46.3	11.2	11.3	10.9	11.2	45.9	10.5	11.0	4.8
63b64b	68.5	68.7	68.5	68.9	69.1	69.6	69.3	68.6	67.2	69.8	68.0	66.6	67.4	5.0
8dc4ee	68.4	44.4	43.8	46.0	40.2	43.2	10.2	10.3	9.6	10.1	39.9	9.7	8.8	4.8
c78e51	68.2	44.1	42.9	44.5	40.5	43.8	10.2	10.3	9.7	10.1	40.4	9.4	9.2	4.7
9c0b8a	70.5	69.7	66.9	70.0	68.0	69.1	69.6	69.2	66.7	68.9	69.0	67.0	69.1	4.8
b68a9c	69.2	7.7	8.1	7.9	7.7	8.0	7.5	7.7	7.5	7.5	7.8	7.4	7.6	4.9
a0d064	69.9	3.6	3.4	3.6	3.8	3.6	3.6	3.7	3.7	3.5	3.4	3.3	3.3	4.7
338958	70.5	45.1	42.9	36.6	35.7	35.8	10.2	9.7	9.2	9.7	34.8	8.3	8.2	4.7
0faec4	70.3	8.0	7.9	7.6	7.8	7.4	8.0	7.8	7.3	7.9	7.9	7.6	7.5	4.7
d43f4f	68.7	69.3	68.7	68.9	68.7	68.2	69.6	68.7	70.0	69.6	68.5	66.9	68.0	4.7
747125	68.9	69.7	68.6	68.8	68.7	67.6	69.2	68.9	66.4	68.8	67.9	67.4	67.4	4.7
d46a70	69.4	68.2	68.8	69.0	68.2	69.2	71.2	69.1	68.0	67.9	68.3	69.5	67.6	4.8
f37f4d	68.8	3.5	3.5	3.5	3.4	3.6	3.4	3.5	3.3	3.5	3.4	3.3	3.3	4.7
72f54c	68.8	45.1	44.3	45.6	40.6	44.5	10.2	10.5	9.5	10.1	39.5	9.7	9.5	4.6
1a9ed5	69.3	69.9	69.3	70.0	68.4	69.7	70.6	68.9	69.2	69.7	70.5	68.0	68.0	4.7
545f67	70.8	46.2	45.7	46.8	45.3	46.3	11.1	11.1	10.5	10.9	45.8	10.5	10.2	4.8
c7bc45	70.3	45.3	45.2	46.4	44.9	46.0	10.4	10.6	9.8	10.5	44.7	9.8	10.0	4.8
f61eec	73.1	74.0	70.9	73.3	72.6	73.0	75.7	73.2	72.3	73.2	71.3	70.0	71.9	4.7
45bb8c	70.5	72.8	72.6	73.0	71.4	71.7	73.0	71.7	70.5	71.7	71.0	70.7	70.5	4.6
25e4c7	71.9	70.8	69.5	72.0	74.2	71.6	72.4	74.3	69.9	70.6	70.9	71.6	71.0	4.9
df7e89	72.2	72.1	70.9	71.7	72.2	70.3	72.1	71.7	70.0	71.4	69.5	69.7	71.3	4.7
678357	70.5	47.9	47.2	48.0	47.3	47.3	10.7	10.7	10.1	10.4	47.6	10.5	9.8	4.6
25d1fe	70.1	49.0	47.5	48.2	41.8	46.5	10.0	10.5	9.7	10.1	39.9	9.5	8.6	4.6
1c1f87	69.6	71.4	69.6	71.9	70.1	72.8	73.2	70.7	69.5	72.6	71.2	71.7	69.5	4.6
ac017b	69.6	48.2	46.0	49.7	47.7	47.1	10.4	10.1	9.9	10.0	46.9	9.8	9.8	4.6
e893ae	69.5	48.2	46.1	47.7	42.4	47.0	10.2	10.2	9.6	10.4	42.1	9.7	9.4	4.5
a2df3c	72.0	71.3	69.3	72.4	70.3	72.5	72.6	73.5	70.9	70.5	72.3	72.5	69.7	4.6
530cf4	75.7	78.5	74.4	76.9	75.6	76.4	77.1	76.3	74.4	76.7	75.5	75.8	74.9	4.7
d037a8	75.0	3.4	3.5	3.6	3.5	3.8	3.6	3.6	3.3	3.6	3.5	3.7	3.5	4.6
7bc0fd	74.9	50.1	48.0	51.2	49.0	48.7	10.2	10.4	9.7	10.5	48.8	9.6	10.4	4.6
69879e	74.8	50.0	47.6	49.5	45.0	48.1	10.5	10.4	9.8	10.0	42.8	10.0	9.1	4.8
f8d201	75.0	49.5	47.6	51.2	32.3	49.2	10.2	10.2	9.4	9.5	31.7	9.7	8.2	4.5
9dbc92	76.6	79.6	75.0	77.7	76.1	77.1	79.7	77.7	77.4	77.7	75.5	76.9	78.0	4.8
4b015a	76.1	50.6	48.1	50.3	50.0	50.7	11.0	11.1	10.4	11.0	49.2	10.5	10.6	5.1
2a2882	76.9	52.0	50.5	50.1	45.9	50.1	11.1	11.3	10.0	11.0	43.8	10.4	9.5	4.9
b18c7d	76.4	4.2	3.7	4.0	3.9	3.9	3.9	3.7	3.9	4.1	4.0	3.8	3.9	4.7
253c76	79.0	52.3	50.9	51.4	52.1	51.3	11.6	10.9	10.7	11.5	50.8	10.6	10.0	4.8
6859e0	76.6	4.0	3.8	3.9	4.0	4.0	4.0	4.0	3.8	4.1	3.9	3.7	3.9	4.9
4b48b2	78.3	4.0	3.8	3.8	3.8	4.2	4.0	4.2	3.8	4.1	4.0	4.0	4.0	4.7
d1321c	79.1	80.3	75.2	78.4	77.3	77.4	79.4	81.3	76.7	78.4	77.5	77.0	77.4	4.8
2c2d55	79.6	81.9	78.2	82.1	80.2	84.2	85.0	83.2	79.4	80.9	80.6	80.8	81.4	4.8
sum	3524.8	2313.5	2245.0	2288.7	2207.8	2263.1	1473.0	1459.9	1414.6	1449.6	2183.6	1415.4	1408.4	232.3
mean	71.9	47.2	45.8	46.7	45.1	46.2	30.1	29.8	28.9	29.6	44.6	28.9	28.7	4.7

TABLE XXXIX: Outcomes of RPS (rps-vms) commons-lang time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
20de43	66.2	11.6	11.3	10.5	11.2	10.8	11.5	12.0	11.8	10.8	11.1	11.1	11.4	21.1
8dae1f	65.3	51.6	51.4	50.7	53.4	43.2	51.6	50.8	52.3	48.9	43.5	42.1	43.1	22.1
4f9285	66.0	51.2	51.1	49.1	52.2	42.5	50.7	49.8	51.3	48.8	42.7	41.9	43.9	21.6
22c304	65.8	51.8	35.0	49.8	35.8	34.1	50.5	49.6	33.5	32.0	29.5	33.4	29.3	22.0
101227	65.4	51.6	35.4	49.8	34.6	33.0	51.3	51.1	33.1	32.2	30.2	34.3	29.2	21.2
e863dc	65.2	52.3	51.3	50.2	52.3	42.9	52.2	50.1	52.1	48.6	44.4	42.1	43.5	21.4
f7cbda	65.9	52.2	52.0	50.5	52.9	43.3	51.7	51.1	52.2	49.5	44.6	42.8	42.4	21.6
6049e7	65.9	11.4	11.7	10.5	11.1	10.9	11.1	11.5	11.3	10.4	11.5	11.0	11.2	21.9
7d061e	65.8	46.9	34.3	45.0	47.5	32.1	46.0	45.4	32.3	44.5	33.3	31.8	31.9	21.9
bfb43d	66.2	11.1	11.3	11.1	11.1	10.7	11.0	11.0	11.3	10.7	11.0	11.5	10.7	21.5
d8ec01	66.3	56.8	38.3	55.0	56.2	36.7	55.7	55.6	36.8	52.8	35.9	36.9	34.8	21.8
6dfc3e	68.8	53.0	35.1	49.5	30.7	33.9	50.9	50.7	32.9	28.6	28.5	32.7	29.5	-21.5
5fb74a	65.9	11.5	10.5	10.4	11.2	10.7	11.4	11.3	11.4	10.4	11.4	11.7	11.0	21.6
c614fb	65.8	57.9	55.4	57.4	57.1	48.0	55.3	56.9	55.5	53.3	49.1	47.0	47.8	-21.4
0b70b0	67.5	70.8	69.9	67.1	72.4	68.8	69.5	70.8	72.1	68.3	69.4	68.8	69.2	21.5
63f11e	64.6	10.4	10.0	9.5	9.9	9.4	10.1	10.2	9.8	9.0	9.8	10.1	9.3	21.4
f5ebb9	66.3	55.2	55.9	54.1	55.7	45.9	54.9	54.1	54.6	52.2	47.2	46.1	45.8	21.5
e72654	65.7	10.6	10.0	9.3	9.5	9.5	9.8	9.7	10.3	9.5	9.8	9.8	10.0	21.2
d57505	66.0	56.5	54.5	53.9	57.0	46.4	55.6	53.6	55.5	52.8	47.4	46.4	46.5	21.0
sum	1254.7	774.2	684.5	743.3	721.7	612.8	760.8	755.2	680.0	673.3	610.2	611.5	600.5	409.1
mean	66.0	40.7	36.0	39.1	38.0	32.3	40.0	39.7	35.8	35.4	32.1	32.2	31.6	21.5

TABLE XL: Outcomes of RPS (rps-vms) smartsheet-java-sdk time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
1d2e47	-47.3	-32.1	-32.8	-32.4	-31.3	-33.8	-22.5	-22.8	-22.2	-23.1	-31.4	-22.2	-22.2	-17.3
509364	-47.2	-33.3	-32.2	-32.2	-32.3	-33.2	-22.4	-22.1	-20.5	-22.6	-30.8	-20.7	-20.8	-17.5
5c83a1	-47.5	-36.0	-37.9	-36.6	-36.0	-38.3	-23.7	-23.4	-22.6	-23.8	-36.0	-22.6	-23.2	-17.6
43a4f7	-47.9	-36.8	-36.3	-37.0	-35.0	-38.0	-23.1	-23.8	-22.0	-23.7	-34.1	-22.3	-21.6	-17.8
240ee7	-47.9	-37.0	-37.2	-37.1	-35.7	-39.1	-23.8	-24.1	-22.6	-24.2	-34.3	-22.5	-22.1	-18.0
4ea223	-47.9	-41.6	-42.6	-42.0	-40.3	-43.3	-25.0	-25.1	-25.3	-26.1	-40.5	-24.3	-24.5	-18.3
177fc4	-48.0	-40.9	-41.4	-41.4	-39.9	-42.1	-24.5	-25.0	-23.5	-24.8	-39.7	-23.7	-23.6	-18.0
2844b0	-49.4	-40.5	-41.7	-41.4	-40.7	-42.8	-24.2	-24.8	-23.8	-25.5	-40.4	-23.7	-23.7	-18.1
97ecb7	-48.6	-42.0	-43.5	-42.9	-41.2	-44.1	-25.2	-25.9	-24.8	-26.4	-40.7	-24.9	-25.6	-18.4
94d558	-49.7	-41.6	-42.8	-41.7	-40.6	-43.2	-25.0	-25.5	-24.6	-25.9	-40.7	-24.5	-24.7	-18.4
de3432	50.3	41.9	42.0	42.2	30.5	42.7	25.4	25.7	23.6	24.1	29.9	23.5	22.7	18.5
4bedcb	48.9	5.2	5.4	5.2	4.8	5.4	4.8	5.0	4.7	5.3	5.0	5.0	4.9	18.3
ae8ebd	46.3	47.2	50.4	48.1	46.0	51.1	48.5	48.3	46.7	46.7	46.6	47.0	46.8	6.4
60de51	45.4	37.1	37.7	37.3	35.7	39.3	15.3	15.7	14.7	15.2	35.3	14.1	14.4	6.4
78c50e	46.4	36.7	38.1	36.6	35.9	38.9	14.9	15.3	14.4	14.5	34.7	14.4	14.1	6.5
9aa37d	49.1	50.0	53.0	49.6	49.3	54.1	50.5	51.4	49.7	48.8	49.2	48.7	49.4	6.8
73be08	49.2	39.5	41.1	39.9	38.3	41.9	16.5	16.9	16.4	16.7	37.5	15.7	16.0	6.8
aa7861	49.4	6.0	6.1	5.7	5.3	5.9	5.9	5.6	5.6	5.2	5.5	5.7	5.6	6.7
5a20f2	48.4	38.4	38.9	38.3	37.0	39.6	15.9	15.7	15.0	15.1	36.0	13.5	13.7	6.6
cbe2f7	50.2	43.1	44.4	42.7	41.8	46.0	19.2	20.4	19.3	18.7	41.5	18.7	19.4	7.3
sum	964.9	727.0	745.4	730.3	697.4	762.6	456.1	462.5	441.9	456.7	689.8	437.8	439.0	269.7
mean	48.2	36.3	37.3	36.5	34.9	38.1	22.8	23.1	22.1	22.8	34.5	21.9	21.9	13.5

TABLE XLI: Outcomes of RPS (rps-vms) commons-dbcp time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
dba639	-94.7	6.6	6.5	6.4	6.9	5.9	6.6	6.6	6.6	6.3	6.4	6.9	6.3	-52.9
141671	-94.2	6.5	6.4	6.1	6.6	6.1	6.5	6.5	6.8	5.9	6.1	6.8	6.0	-52.7
b19355	-94.1	-95.4	-64.2	-93.0	-95.2	-63.1	-88.5	-88.6	-60.7	-87.5	-61.8	-62.3	-58.0	-52.6
43a618	-94.6	-93.8	-93.6	-92.6	-94.5	-62.3	-87.0	-87.7	-89.1	-87.5	-61.7	-60.0	-58.4	-52.7
4475a0	-93.5	-96.0	-94.3	-92.9	-95.3	-63.0	-88.9	-89.1	-89.6	-87.4	-61.5	-60.0	-58.3	-52.6
43e1ab	-95.1	6.8	6.5	6.4	6.4	6.3	6.3	6.4	7.1	6.3	6.2	6.6	6.4	-53.1
8c0391	-94.6	6.4	6.6	6.3	6.5	6.1	6.0	6.6	6.7	6.1	6.3	7.0	6.6	-52.8
12f80f	-94.8	6.6	6.5	6.0	6.7	6.1	5.9	6.3	6.4	6.2	6.1	6.6	5.9	-53.1
3ba469	-94.6	7.5	7.2	6.9	7.0	7.1	7.2	7.6	7.0	7.0	7.2	7.5	7.2	-53.5
0f656a	-95.1	-58.6	-57.7	-58.0	-57.5	-57.5	-57.0	-58.7	-58.0	-57.4	-56.9	-58.1	-57.6	-53.2
6bcbad	-94.4	-95.1	-95.6	-92.4	-95.9	-63.3	-88.2	-88.1	-90.9	-88.6	-63.5	-62.4	-59.8	-53.0
0b5b1b	-95.1	-95.4	-95.2	-93.2	-95.9	-63.6	-88.0	-88.6	-90.4	-88.9	-61.6	-60.9	-58.5	-53.2
f74029	-94.5	-95.5	-63.6	-87.5	-58.7	-60.9	-87.7	-85.5	-60.3	-58.1	-57.5	-59.7	-57.2	-53.3
8a1c11	-94.0	-96.4	-95.2	-93.0	-96.1	-63.8	-88.0	-89.8	-89.7	-88.0	-62.6	-61.9	-58.8	-53.2
e65434	-94.3	-95.8	-96.2	-94.2	-96.4	-63.7	-88.8	-90.0	-91.2	-88.5	-62.4	-61.4	-59.5	-53.3
861879	-94.8	-96.3	-95.4	-93.5	-95.4	-63.4	-88.4	-89.8	-89.4	-89.0	-62.0	-61.0	-58.8	-53.0
6641cc	-94.7	-96.7	-95.8	-94.3	-95.4	-63.7	-88.2	-89.4	-90.3	-88.5	-61.9	-60.4	-59.1	-52.9
840871	-94.7	-97.2	-95.0	-93.1	-96.4	-64.0	-88.6	-89.0	-90.4	-88.3	-62.9	-61.3	-59.1	-53.1
6a6504	-94.6	-95.9	-95.3	-93.7	-95.0	-63.5	-88.1	-88.9	-90.7	-88.2	-62.2	-61.1	-59.1	-52.8
sum	1796.3	1248.5	1176.8	1209.6	1208.1	853.4	1153.9	1163.1	1121.5	1123.7	836.7	831.8	800.5	1007.1
mean	94.5	65.7	61.9	63.7	63.6	44.9	60.7	61.2	59.0	59.1	44.0	43.8	42.1	53.0

TABLE XLII: Outcomes of RPS (rps-vms) jnr-posix time

				TABLE			01 101 5		, Jin po.					
sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
496890	143.2	31.9	30.6	30.3	29.8	29.4	21.0	21.5	21.7	21.4	30.3	21.0	20.6	12.3
ba4016	146.1	74.1	71.9	71.3	69.1	68.5	30.0	30.7	30.8	30.6	71.0	29.3	27.4	12.2
220614	145.6	82.0	79.1	-79.9	42.4	76.2	31.6	31.5	32.1	24.6	41.1	31.0	20.6	12.2
28a09c	143.8	82.6	79.7	79.2	79.1	74.7	31.7	32.5	32.8	32.8	77.7	31.3	29.5	12.2
a03b2e	145.9	82.0	79.0	80.9	60.7	76.6	31.2	32.2	31.9	29.3	57.6	30.9	24.3	12.2
6c8812	-2.5	-2.6	-2.5	-2.5	-2.3	-2.2	-2.3	-2.3	-2.5	-2.4	-2.5	-2.4	-2.4	-2.3
6d3956	144.6	82.1	79.5	79.2	59.9	75.2	31.2	31.6	32.3	29.7	57.9	30.7	24.3	12.5
40396a	-2.3	-2.5	-2.4	-2.3	-2.6	-2.2	-2.3	-2.3	-2.6	-2.4	-2.4	-2.4	-2.2	-2.5
e935f8	143.3	87.6	82.5	82.7	65.0	79.4	31.9	32.7	33.6	31.4	63.1	31.5	25.3	12.4
40fa74	160.6	93.2	91.0	89.1	88.1	86.2	34.5	35.6	35.6	36.0	87.8	33.9	33.1	12.8
1548fb	155.6	92.5	89.2	87.5	81.5	83.5	33.5	34.4	34.4	32.8	81.0	31.6	26.7	12.7
5eed6f	157.1	-94.0	91.3	88.2	82.1	84.0	33.0	34.5	34.9	33.5	81.4	31.8	27.3	12.7
dcd57f	155.8	94.0	91.0	87.9	84.1	84.9	33.5	34.0	34.2	33.5	81.6	31.9	27.3	12.6
35f3bf	171.5	172.1	166.1	162.6	160.7	158.7	162.1	165.0	162.5	164.2	163.0	163.0	161.4	12.8
d4a2ab	170.3	86.9	85.3	85.2	34.8	81.8	32.7	33.9	33.6	22.2	34.6	33.1	20.0	12.8
edcead	170.6	168.4	162.8	165.6	161.7	160.5	164.5	165.0	165.2	169.4	159.0	165.9	163.0	12.9
8962f9	170.1	96.5	94.3	94.3	93.0	92.9	35.0	35.6	34.9	35.5	93.2	34.1	33.5	12.9
cd4525	170.3	85.9	85.1	85.7	34.9	83.7	33.1	33.8	33.2	22.7	34.6	31.8	19.6	13.0
e8502f	168.3	89.2	85.5	86.1	34.6	82.8	32.0	33.5	32.9	22.1	33.9	31.6	19.2	12.9
62c6a3	-1.1	-1.2	-1.2	-1.2	-1.2	-1.1	-1.1	-1.1	-1.1	-1.2	-1.1	-1.2	-1.1	-1.2
f65dff	170.0	169.9	164.5	166.2	164.5	160.6	162.8	165.3	164.6	164.7	162.0	161.6	162.2	12.8
0bde3f	172.1	169.8	166.8	163.8	161.9	163.1	163.0	168.4	163.7	167.8	162.2	161.9	160.5	12.9
9b0780	171.9	105.7	104.1	104.0	103.6	100.0	35.6	36.1	36.4	36.6	100.7	34.3	33.7	12.8
cf12ff	167.8	170.8	164.8	166.3	162.8	160.7	163.4	164.7	162.7	163.6	160.5	160.6	160.4	13.0
a17daf	173.5	175.4	171.2	170.2	168.6	167.9	168.1	170.5	171.6	170.5	169.6	168.8	164.1	12.9
71d8d3	179.5	110.4	107.9	111.2	89.7	105.1	35.3 169.5	37.1	37.2 169.2	34.5	85.8	33.7	28.9	12.9
28d0c8 7be191	175.0 -1.1	174.8 -1.2	171.4 -1.1	169.2 -1.1	170.6 -1.1	164.1 -1.1	-1.1	170.3 -1.2	-1.1	170.2 -1.2	171.0 -1.1	168.2 -1.2	167.0 -1.1	12.8 -1.1
cccb9b	-1.1 -1.1	-1.2	-1.1 -1.1	-1.1 -1.1	-1.1 -1.1	-1.1 -1.1	-1.1 -1.1	-1.2	-1.1	-1.2	-1.1 -1.1	-1.2	-1.1 -1.1	-1.1 -1.1
850f7b	180.4	178.4	173.9	173.5	172.8	170.0	168.8	172.5	175.0	174.5	166.8	169.2	169.5	13.2
c5a412	174.1	112.1	108.9	109.7	106.5	106.1	36.6	38.0	38.1	38.1	106.5	36.2	35.2	13.2
752f60	183.4	118.2	117.4	114.3	111.8	111.9	39.6	40.8	40.3	41.3	112.3	38.4	37.6	13.6
bc5484	184.5	117.2	115.1	114.4	89.6	109.9	38.1	39.2	39.3	37.0	87.0	37.4	30.3	13.4
44b67f	186.3	113.0	111.5	112.0	18.1	107.9	36.4	38.2	38.1	18.5	17.8	35.7	17.7	13.9
de7b93	184.6	5.7	6.2	6.4	5.8	5.7	5.9	6.2	6.1	5.8	5.7	5.8	5.7	13.6
2537ee	182.8	186.2	181.0	180.8	180.1	180.9	177.6	181.4	181.9	181.3	180.0	175.0	178.5	13.7
7d4317	185.7	6.0	6.3	5.8	5.8	5.3	5.6	5.8	6.1	5.8	5.6	5.5	5.6	13.4
ce0a9a	184.8	117.6	116.6	114.6	112.1	110.3	38.5	40.0	40.1	39.5	113.3	38.0	37.1	13.9
16bedc	185.7	191.7	182.6	180.9	181.3	-177.7	177.4	183.9	180.4	186.2	181.9	178.2	180.1	13.7
46f849	185.4	189.1	180.5	181.3	179.1	179.7	179.1	185.3	183.5	186.0	184.9	176.8	176.3	13.7
21e451	186.3	190.2	184.3	182.7	180.2	179.2	180.1	180.7	182.9	185.3	182.1	177.6	177.8	13.4
1e1024	186.8	188.9	184.8	184.3	181.0	179.8	180.4	182.6	182.6	183.4	183.1	179.3	179.8	13.6
abbc4e	188.5	117.4	117.9	115.6	112.0	111.7	38.6	40.1	39.3	39.7	115.7	37.4	36.8	13.7
c2e2f6	195.7	195.9	195.6	193.4	188.9	184.8	186.9	192.0	192.6	192.3	194.8	186.6	187.4	13.8
7935cb	194.9	127.1	125.3	127.0	99.7	121.7	38.5	39.6	40.1	37.0	96.7	36.1	29.6	13.6
03a4a3	198.9	207.2	193.6	192.2	192.4	186.9	193.8	194.6	193.7	196.3	195.3	187.1	187.4	14.0
73813c	-196.1	-126.4	-125.5	-123.2	-51.6	-122.6	-38.5	-38.6	-38.7	-28.5	-49.5	-36.6	-23.4	-13.8
99c3b5	-195.3	-126.5	-124.4	-125.8	-121.5	-123.0	-38.6	-39.4	-39.8	-39.0	-123.2	-37.4	-36.2	-13.7
ce6e2b	-195.3	-127.4	-122.9	-122.4	-50.9	-119.8	-37.5	-39.4	-38.8	-27.9	-49.5	-37.0	-23.8	-13.7
sum	7636.2	5422.7	5277.5	5255.3	4632.3	5103.2	3544.5	3616.7	3607.9	3531.3	4620.4	3503.3	3343.3	584.8
mean	155.8	110.7	107.7	107.3	94.5	104.1	72.3	73.8	73.6	72.1	94.3	71.5	68.2	11.9

TABLE XLIII: Outcomes of RPS (rps-vms) commons-imaging time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
cfeff1	90.3	71.1	67.2	67.2	70.8	70.6	76.5	70.0	70.9	73.8	32.9	68.5	56.2	20.8
212727	90.6	76.4	74.1	72.7	76.0	35.3	81.4	75.1	75.8	81.0	32.1	31.9	55.0	17.8
a9cca2	89.8	10.9	10.0	9.9	10.5	11.0	12.6	10.6	10.9	10.4	10.0	10.3	10.7	19.8
8a583a	89.7	76.8	71.9	72.1	77.3	32.3	80.8	75.5	75.1	81.0	31.2	31.9	52.3	17.6
f46d64	89.2	10.6	10.3	9.8	10.0	10.0	11.7	10.5	10.7	10.4	9.9	10.1	10.0	17.7
a32cb5	91.1	78.4	72.5	72.6	61.1	76.3	80.8	76.9	75.6	64.4	25.5	72.0	36.6	18.2
6962d8	90.3	78.1	72.8	72.8	60.3	75.4	81.0	76.5	76.0	63.4	25.2	73.5	36.1	22.5
62c8e6	90.7	94.2	90.2	91.5	95.4	93.0	101.3	96.2	93.9	95.2	89.2	91.2	97.1	18.1
ae548a	91.5	89.3	83.9	86.0	85.6	87.6	93.9	88.5	87.9	86.0	28.8	82.3	37.8	19.4
41d5cf	90.0	10.8	10.6	10.1	10.4	10.4	11.0	10.3	10.9	10.2	9.7	10.3	10.0	18.3
b43743	91.9	11.4	10.3	10.0	11.1	10.1	11.9	10.3	10.5	10.0	10.0	10.3	10.4	17.9
fb0be4	91.4	90.7	85.3	86.5	91.2	89.5	93.4	92.5	89.1	93.2	41.3	86.7	50.7	17.9
611c3b	91.0	26.6	23.7	23.5	25.0	24.8	33.0	25.3	24.7	35.1	23.3	23.5	34.4	17.9
40ab2c	91.0	10.4	10.2	10.1	10.4	10.5	11.8	10.3	10.7	10.1	9.8	10.2	10.2	17.5
c5ca63	90.7	90.7	86.6	86.0	90.8	43.8	95.2	88.3	89.0	90.7	41.3	41.6	52.1	17.6
4701b9	91.3	89.7	85.1	85.9	90.5	41.7	90.0	87.8	88.6	91.7	41.0	41.9	47.4	17.7
7862d6	91.1	91.6	88.4	88.4	93.6	92.0	93.9	91.5	91.1	97.3	47.5	87.0	53.7	18.2
51880b	91.4	90.7	88.2	87.8	93.3	90.7	90.2	89.5	89.1	93.5	40.9	88.1	47.8	17.7
0a6149	90.4	92.8	87.5	89.3	93.2	90.5	91.4	88.9	89.7	92.9	41.8	86.7	44.1	17.7
sum	1723.5	1191.2	1128.9	1132.3	1156.4	995.6	1241.7	1174.4	1170.3	1190.3	591.6	957.8	752.5	350.3
mean	90.7	62.7	59.4	59.6	60.9	52.4	65.4	61.8	61.6	62.6	31.1	50.4	39.6	18.4

TABLE XLIV: Outcomes of RPS (rps-vms) javapoet time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
16cd72	59.2	40.4	40.5	42.3	40.3	40.1	19.6	19.0	18.7	19.4	40.1	19.3	18.3	8.0
868524	58.4	39.4	39.0	40.5	38.7	39.4	18.4	17.2	18.0	17.8	39.8	18.7	17.6	8.5
61b0fa	60.1	39.4	39.5	41.4	39.6	39.6	19.7	18.6	18.0	18.6	40.2	19.2	17.9	8.2
bc65a0	58.6	39.8	39.6	41.5	39.5	40.3	18.5	17.9	18.7	18.7	39.6	19.2	17.6	8.4
19b9d7	59.2	11.9	12.0	12.7	11.7	12.4	12.2	12.0	12.2	12.0	12.4	12.3	12.2	8.1
01f707	58.0	11.8	12.2	12.3	11.8	12.2	12.5	12.0	11.9	12.1	11.9	12.4	11.6	8.4
fa5c19	57.9	12.3	11.9	12.9	12.6	12.3	12.4	12.5	12.1	12.0	12.5	12.5	11.9	8.3
ff50d7	58.7	12.1	11.9	12.7	11.9	11.9	12.6	11.9	11.8	12.3	12.4	13.3	11.9	8.2
b66d3d	57.7	12.1	12.2	12.7	11.9	12.2	12.5	12.0	12.4	12.1	12.2	12.3	11.6	8.2
414da3	57.1	11.8	11.7	12.1	15.2	12.1	11.9	11.6	11.7	12.8	15.5	12.3	11.6	8.3
647b93	59.7	13.3	14.2	13.8	13.4	13.8	13.7	13.0	13.8	13.4	13.8	13.9	12.6	10.0
e11279	60.9	14.0	13.8	14.2	13.5	14.2	14.1	13.3	13.6	14.3	14.5	14.0	13.1	10.0
40dfa0	61.4	13.4	14.1	14.1	13.9	13.7	13.8	13.4	13.7	13.8	13.6	14.2	13.0	10.0
4cd975	59.7	14.2	14.2	14.5	14.2	14.0	14.2	13.7	13.7	14.0	14.2	14.6	13.5	10.1
ca12c7	61.0	13.3	13.2	13.9	13.6	13.1	13.8	13.0	13.0	13.5	13.6	13.6	12.8	10.3
08c714	62.0	13.0	13.6	13.6	13.2	13.0	13.5	13.0	12.6	13.6	13.6	13.4	12.8	10.1
a5694a	62.1	14.0	14.1	14.3	13.8	14.2	14.1	13.3	13.9	13.9	14.1	14.8	13.1	10.1
384395	61.0	13.8	14.2	14.7	14.2	13.8	14.0	13.8	13.9	14.2	14.2	15.0	13.4	10.1
f5b1b6	60.6	13.6	14.1	13.8	13.6	13.7	13.5	13.2	13.8	13.8	13.4	14.4	13.4	10.0
sum	1133.4	353.7	356.2	368.2	356.6	356.0	274.9	264.3	267.3	272.3	361.7	279.3	259.7	173.2
mean	59.7	18.6	18.7	19.4	18.8	18.7	14.5	13.9	14.1	14.3	19.0	14.7	13.7	9.1

TABLE XLV: Outcomes of RPS (rps-vms) beanstalker time

								ips viiis,						
sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
11a1a8	23.3	34.0	33.9	34.7	35.9	33.7	34.3	33.8	33.7	33.5	33.3	34.3	34.6	12.9
d3d9cc	24.1	35.5	35.0	37.1	36.5	34.5	33.4	33.8	34.3	34.4	33.8	33.7	34.0	12.9
fc343a	24.0	34.3	34.2	35.8	36.2	33.6	33.8	33.2	34.1	34.6	33.1	33.8	34.3	12.9
8dc528	29.9	44.1	43.3	46.3	46.0	44.1	43.8	43.5	44.8	45.2	43.6	43.9	44.7	16.8
966ec5	-21.7	-27.0	-26.8	-27.5	-28.0	-27.0	-26.1	-26.7	-27.1	-27.7	-26.9	-26.8	-27.2	-12.2
7c2a4a	0.9	0.9	0.9	1.0	1.0	0.9	0.9	0.9	0.9	1.0	0.9	0.9	0.9	0.9
68cf11	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.0	0.9	1.0	1.0	1.0
01a6eb	30.6	46.5	45.9	47.8	48.1	45.4	43.5	43.1	43.7	43.1	44.6	43.8	43.6	17.6
871176	30.2	46.3	46.5	47.8	47.8	45.2	44.2	44.3	44.5	45.2	45.2	44.1	44.7	17.2
e99f0a	35.8	54.1	53.1	56.7	56.7	53.8	53.6	53.6	53.2	54.6	53.2	53.1	53.9	21.3
70237c	37.1	56.4	56.1	58.5	58.6	56.2	54.4	54.4	54.8	55.0	54.7	54.9	55.3	21.3
cb517b	36.0	54.1	53.6	57.1	57.1	53.5	52.2	52.1	52.6	53.9	53.8	52.7	53.3	21.4
195fbe	35.8	55.2	54.8	57.2	58.2	54.3	53.1	53.8	53.9	54.2	53.5	54.4	53.2	21.3
ddf253	35.6	55.7	54.7	58.0	57.8	55.1	52.5	54.0	53.9	52.6	54.1	52.8	53.7	20.9
89c2ea	36.3	55.4	54.7	58.2	57.3	55.1	52.4	54.2	53.2	52.7	54.6	53.1	53.6	21.2
effb25	35.9	54.7	54.0	57.1	56.3	54.1	52.3	52.7	53.2	53.3	53.5	52.9	52.9	21.0
fe9fc8	35.6	58.8	58.4	61.3	61.1	57.7	55.9	56.7	55.2	56.6	56.7	55.7	56.4	21.4
0e57c6	36.2	54.3	53.1	56.8	56.3	52.8	51.6	50.7	51.0	51.3	52.6	50.9	51.3	21.6
246867	36.3	54.6	54.2	56.6	57.7	53.4	52.7	52.4	52.5	52.5	54.0	52.3	53.2	20.9
ed882c	42.1	64.7	64.0	68.6	67.9	63.8	61.4	61.8	62.0	61.4	63.6	61.4	62.4	25.0
fa900c	41.9	63.5	63.9	66.6	65.8	61.7	60.3	60.8	61.2	61.1	62.7	61.0	61.9	25.2
d5387d	41.3	61.2	60.8	63.3	63.9	60.3	57.9	57.2	57.7	58.3	60.1	57.9	58.8	25.1
276985	42.2	63.5	63.4	66.7	66.1	62.3	60.0	61.6	61.8	60.9	62.0	60.5	61.7	25.3
53790c	42.4	63.8	63.5	66.9	66.4	62.4	60.0	61.2	61.3	61.6	61.8	61.5	62.1	25.2
d92ac2	42.2	62.9	63.6	67.1	67.2	62.5	61.7	60.5	61.5	61.7	61.9	61.0	61.9	25.0
57b569	41.7	67.2	67.0	70.7	70.3	66.1	64.5	65.3	64.5	64.6	66.4	64.5	65.0	25.3
dc0bfb	41.0	64.3	63.6	67.9	68.4	63.7	63.8	64.0	65.0	64.2	63.4	64.6	65.1	24.7
5599aa	42.3	63.7	64.4	66.8	66.7	62.5	61.4	61.0	61.4	61.5	62.2	61.5	62.0	24.8
97f130	41.3	64.5	63.4	67.3	68.1	63.0	60.8	63.5	62.4	63.6	63.3	61.9	62.6	24.8
35549e	33.8	50.7	50.4	53.1	53.1	50.3	50.5	50.8	50.6	50.6	49.8	50.4	50.5	25.7
3566e8	33.6	53.6	53.0	55.9	56.0	53.2	53.6	53.8	54.3	54.0	53.6	54.1	53.5	25.6
69dbfa	33.6	56.1	54.9	58.0	57.9	55.2	55.1	55.5	55.5	56.2	54.4	55.4	56.1	25.3
edaba6	-31.7	-55.8	-55.0	-58.6	-57.7	-54.6	-54.9	-54.5	-55.5	-55.6	-53.3	-54.4	-55.1	-23.2
caed60	34.5	53.7	53.4	56.3	55.6	52.4	53.2	53.8	53.2	53.5	52.5	53.1	54.7	25.6
c45847	34.8	63.6	62.9	66.3	65.9	62.6	63.3	63.7	62.8	63.7	61.7	62.9	63.3	25.5
28d121	33.9	62.9	63.1	66.0	66.6	61.6	62.4	63.7	64.1	63.0	62.4	62.9	63.2	25.6
702ded	33.8	63.9	62.4	66.8	66.6	61.9	63.3	63.3	62.7	63.5	63.0	64.1	63.9	25.6
736c69	34.1	52.8	53.4	56.1	56.3	53.1	53.2	53.8	53.4	54.4	52.5	52.8	53.7	25.9
e57574	33.4	53.1	53.3	56.2	56.2	53.0	53.0	53.2	53.4	53.0	52.1	53.0	53.8	26.2
d87076	34.3	54.1	53.6	55.8	55.8	52.0	53.1	52.9	53.3	53.4	52.8	53.1	53.8	25.8
e859da	75.9	130.5	130.6	137.0	137.6	129.3	130.9	131.3	130.6	130.9	129.2	131.4	131.2	64.9
40357a	75.7	134.7	134.5	142.0	142.2	133.8	135.0	134.9	134.9	135.4	133.9	134.0	135.1	65.1
332f14	-22.2	-24.5	-24.5	-25.5	-25.5	-23.7	-24.1	-24.3	-24.3	-24.0	-24.3	-24.6	-24.7	-21.1
c7e905	66.6	114.2	114.3	119.3	120.3	112.4	113.5	113.6	114.3	113.6	112.7	114.2	114.7	56.6
ec5fc3	68.0	114.2	114.2	119.8	121.4	115.0	114.9	114.5	115.4	115.7	113.6	114.9	115.2	57.8
a1d8eb	67.4	121.9	120.8	128.1	128.1	121.3	121.0	120.9	121.6	122.2	120.8	121.7	122.7	56.7
a53ecd	67.1	123.2	121.5	127.1	129.0	120.3	120.5	122.4	122.3	123.1	120.9	121.3	123.1	57.1
620e45	66.8	120.9	121.2	126.7	127.5	120.8	121.3	121.3	121.3	121.4	120.9	121.0	121.8	57.2
cd171f	-50.2	-94.4	-93.5	-98.2	-99.2	-94.9	-93.3	-93.3	-93.6	-95.1	-93.5	-93.6	-93.7	-48.0
sum	1896.3	3061.2	3042.5	3201.3	3207.2	3021.0	2993.6	3007.4	3013.5	3023.2	3008.1	3004.1	3029.2	1331.6
mean	38.7	62.5	62.1	65.3	65.5	61.7	61.1	61.4	61.5	61.7	61.4	61.3	61.8	27.2

TABLE XLVI: Outcomes of RPS (rps-vms) commons-io time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
2196ff	411.4	21.4	20.6	21.3	20.6	20.6	21.0	21.5	20.2	21.6	20.2	20.5	21.6	101.5
65657b	414.5	20.9	20.0	21.9	21.6	20.5	22.1	20.1	20.2	20.7	20.6	20.5	21.8	101.2
6e2ac1	415.7	246.1	231.0	247.8	240.1	227.4	197.3	193.8	181.4	196.7	216.1	176.5	164.2	101.7
b014a0	415.1	21.0	20.1	21.8	20.0	20.6	20.5	20.8	20.6	21.2	20.1	20.8	20.2	101.5
dcf6e8	412.2	173.4	155.9	174.0	157.7	155.1	154.3	149.9	129.2	141.6	154.4	128.6	128.3	102.7
84a0d9	408.8	172.4	155.1	174.3	168.5	155.7	153.4	149.7	128.4	153.5	-155.4	129.2	131.7	102.1
10c8db	412.3	173.1	154.5	174.0	167.7	154.6	153.3	150.4	129.0	151.3	155.1	128.5	-130.7	102.3
2bacf6	414.1	21.6	20.3	21.4	20.9	21.2	21.8	20.5	20.2	20.1	19.9	20.2	21.1	101.8
4f50c3	418.1	177.4	159.8	178.9	175.5	164.0	156.0	151.6	130.1	152.7	160.4	128.9	131.5	102.8
30280a	413.1	177.0	161.2	181.6	173.9	160.2	155.8	151.5	130.7	153.3	158.2	128.7	132.8	101.7
9cd312	407.3	178.2	160.5	180.0	174.0	160.9	155.5	151.8	130.7	152.8	160.4	128.7	131.3	101.7
c1b64e	410.9	20.7	20.5	22.4	20.8	20.1	20.5	20.5	21.3	20.4	20.3	20.7	22.0	101.9
65c4a9	409.2	21.4	20.3	21.8	20.5	22.5	21.1	20.1	21.2	20.2	20.5	20.1	21.9	101.6
86cc77	423.0	21.8	20.4	22.2	20.3	21.3	22.1	20.8	21.0	21.1	20.5	20.8	21.8	103.5
d3fc1a	422.9	21.6	20.3	22.5	20.5	20.2	21.6	19.7	21.1	20.8	20.6	20.7	21.3	101.7
d19259	420.8	309.3	251.5	314.3	297.4	249.5	215.9	210.0	157.4	213.8	238.3	157.0	145.5	103.0
ed15b0	420.5	309.8	251.4	315.2	247.3	249.1	215.7	209.2	156.1	193.5	199.1	155.5	134.9	102.1
459ceb	419.1	274.1	223.4	278.0	173.3	220.3	205.5	201.1	150.9	151.5	160.9	148.0	130.2	101.6
947c01	416.5	274.9	410.8	278.4	263.1	251.2	196.9	190.9	181.1	193.0	238.8	174.4	162.9	103.0
sum	7885.4	2635.9	2477.7	2671.9	2403.8	2315.1	2130.2	2073.7	1770.7	2019.8	2159.8	1748.4	1695.4	1939.2
mean	415.0	138.7	130.4	140.6	126.5	121.8	112.1	109.1	93.2	106.3	113.7	92.0	89.2	102.1

TABLE XLVII: Outcomes of RPS (rps-vms) imglib2 time

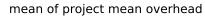
sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
311bb3	31.6	20.0	17.8	18.9	19.2	19.1	18.2	18.1	18.2	18.8	19.2	18.6	17.7	12.6
e45314	31.2	17.6	16.8	15.7	16.9	16.6	16.1	15.8	16.6	16.0	16.2	16.1	15.4	12.5
2d6644	31.2	30.0	26.1	26.9	28.0	26.8	26.7	26.5	27.9	26.8	26.0	26.1	24.6	12.6
ca346b	31.5	27.2	17.4	23.8	24.7	18.0	23.9	23.8	17.3	23.9	17.3	16.5	16.1	12.9
28c941	31.4	33.2	22.7	29.2	30.8	22.5	29.1	29.4	23.1	29.3	21.5	21.3	19.4	12.9
f835a8	31.0	8.0	7.1	7.0	7.0	7.4	7.4	6.8	7.3	6.9	7.4	7.3	7.2	12.3
a735f9	31.1	32.3	27.8	28.7	30.5	28.6	28.8	28.9	29.4	29.1	28.3	27.0	26.5	13.1
bba835	31.3	17.9	15.9	16.4	15.7	17.0	17.0	15.9	17.0	15.8	16.1	16.9	15.3	12.9
e2f354	31.2	32.2	28.3	29.5	30.5	28.7	29.7	29.0	30.1	29.5	29.0	27.6	26.6	12.4
897b86	31.5	7.6	6.8	6.7	6.9	7.0	6.9	6.8	7.3	6.6	7.1	7.0	6.4	12.9
59cf72	31.4	32.6	28.0	29.1	30.9	29.1	30.0	29.4	30.0	29.1	28.7	27.8	27.2	12.6
1941a7	31.6	32.2	28.4	29.3	30.7	28.9	29.5	29.3	29.9	29.7	28.4	27.7	26.7	12.7
ca903a	33.8	38.9	35.4	35.3	37.0	37.2	36.0	35.4	36.8	35.3	36.7	35.9	34.9	13.4
1fe7da	33.8	33.7	22.1	30.1	31.7	22.5	31.3	30.1	23.2	29.9	21.2	21.0	19.3	13.5
d5e69f	33.8	8.7	7.4	7.4	7.4	7.0	7.9	7.0	7.6	7.4	7.8	7.7	6.8	13.3
b34e8b	33.7	33.8	20.5	30.5	17.4	21.4	30.5	30.1	21.9	17.0	17.1	20.9	16.1	13.6
43e04d	34.0	33.1	20.6	29.0	16.8	20.4	30.9	28.4	21.7	16.2	16.9	18.9	15.9	13.6
156d36	34.4	35.0	29.3	30.9	32.5	30.8	30.2	30.8	31.1	31.0	31.2	28.9	27.9	13.7
599cd1	34.1	34.7	22.3	30.8	17.6	23.2	30.7	30.5	21.9	17.0	17.2	21.4	16.7	13.7
sum	613.9	508.6	400.5	455.1	432.2	412.0	460.7	451.8	418.4	415.1	393.2	394.7	366.8	247.3
mean	32.3	26.8	21.1	24.0	22.7	21.7	24.2	23.8	22.0	21.8	20.7	20.8	19.3	13.0

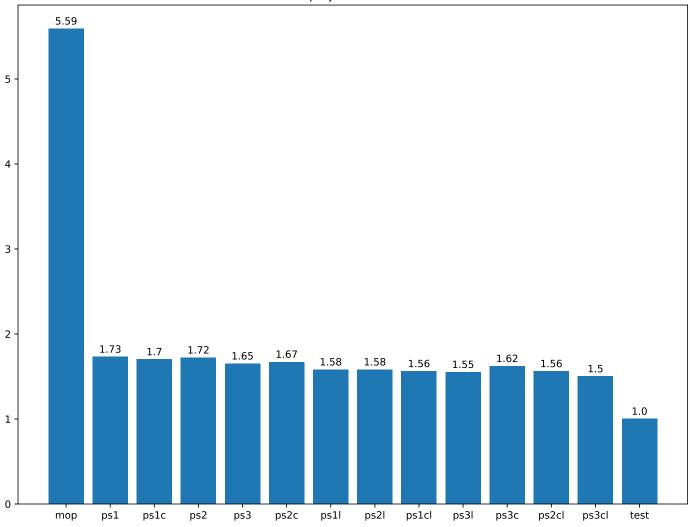
TABLE XLVIII: Outcomes of RPS (rps-vms) jscep time

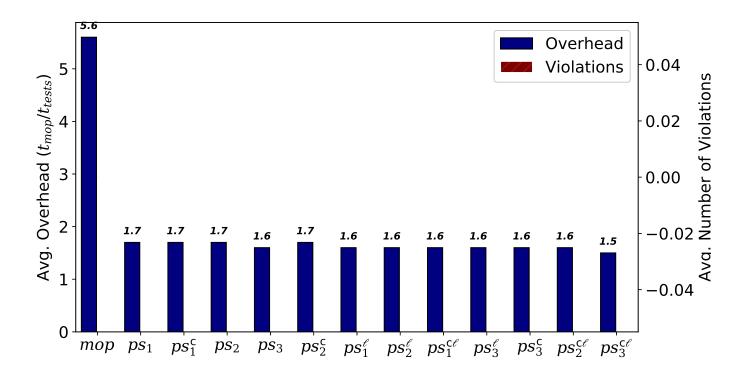
aha	mon	no1	no1o	no2	nc2	no20	no.11	nc21	ng Lal	pc21	nc20	ne2el	no2 ol	tant
sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
e553d4	46.9	38.7	38.1	39.3	39.2	37.7	28.7	28.7	27.8	29.1	39.7	27.2	27.7	21.9
ce7b9a	47.9	49.0	48.4	47.7	48.6	49.4	48.6	48.8	49.8	50.6	51.8	49.8	50.3	21.8
8cd073	47.6	43.0	42.1	38.6	39.7	38.3	28.5	27.3	26.8	28.2	40.4	26.9	26.8	21.8
6e794a	47.7	43.6	42.6	42.9	39.4	42.8	28.5	28.6	28.1	28.8	40.2	28.2	27.9	22.3
c77163	33.7	29.9	28.0	29.1	19.2	28.5	14.6	14.1	12.9	13.7	19.8	13.8	13.0	7.6
da5108	33.8	30.0	28.6	28.6	28.9	27.8	14.3	14.0	13.9	15.5	29.5	13.8	13.4	8.1
7cc074	33.8	3.8	3.8	3.9	4.0	3.8	4.0	3.9	4.2	4.1	4.2	4.0	4.2	8.0
886eac	33.4	30.2	30.0	30.1	30.5	29.4	14.7	14.6	13.9	15.2	31.0	14.3	14.0	7.7
6404ef	34.2	3.8	3.7	3.9	3.8	3.8	3.8	3.9	3.7	4.2	4.1	3.9	4.0	7.9
a039b8	34.2	12.0	12.6	13.0	12.3	12.4	11.7	11.4	11.3	12.0	12.6	11.7	11.9	8.1
c45090	33.2	3.5	3.7	3.9	4.0	3.7	3.7	3.6	4.1	3.9	3.9	3.8	4.2	8.0
2af66c	33.9	29.8	29.0	29.9	18.5	29.0	14.4	14.4	12.6	13.5	18.6	13.6	11.9	7.8
ab5a7f	33.3	30.9	29.6	30.3	25.1	29.7	14.6	14.3	14.1	14.3	26.6	14.5	13.4	8.1
afd8e1	33.2	30.8	30.0	30.7	31.1	30.1	14.8	15.2	13.9	15.8	31.4	14.8	14.7	8.1
1cf7dd	33.7	30.4	30.1	30.8	29.2	30.2	14.6	14.4	14.6	15.7	29.9	14.7	14.4	7.8
c27515	33.2	29.8	29.3	28.2	28.4	26.6	13.6	13.6	13.3	14.6	30.6	13.1	12.6	7.6
e4683d	32.9	30.3	29.6	29.0	28.2	27.7	14.4	14.3	13.6	14.8	30.4	13.8	13.4	7.9
9a58e1	33.8	29.7	29.6	29.3	28.5	27.6	14.3	14.0	13.3	14.9	29.6	12.9	12.6	7.5
661ba5	33.9	30.6	28.3	21.5	21.6	20.1	14.0	12.5	13.1	13.5	22.9	11.5	12.0	8.1
298ec2	33.2	30.5	29.4	29.8	18.8	28.8	14.4	14.6	13.2	13.1	20.5	13.4	12.1	7.8
71cc1e	33.5	30.7	28.9	29.5	18.6	29.5	14.2	14.0	13.9	14.0	19.9	13.7	11.9	7.5
d30047	33.0	30.2	29.9	30.1	27.6	29.0	13.8	14.9	13.5	14.8	29.0	14.2	12.8	7.6
2c828e	32.6	27.3	25.7	27.6	23.5	26.4	13.8	13.8	12.0	14.1	24.9	12.5	12.6	7.8
fa7653	32.9	31.3	31.4	31.8	31.9	31.0	15.2	15.2	15.7	16.6	34.3	16.1	16.5	7.3
9284fb	33.0	30.2	29.5	28.2	28.5	27.3	13.8	13.7	13.5	14.5	30.0	12.9	12.3	8.0
795bcb	33.4	31.1	29.8	30.7	29.4	29.8	14.7	14.5	14.3	15.5	31.1	14.1	13.1	7.7
8f11a9	34.0	31.0	29.9	31.4	29.1	30.6	14.4	15.0	14.0	15.6	30.9	14.3	13.4	8.0
b64cb3	33.2	3.9	3.9	3.8	4.0	3.6	4.0	3.7	3.8	4.1	4.2	3.8	4.0	7.8
338fad	34.2	4.0	3.8	3.7	3.9	3.7	3.7	3.8	4.0	4.0	4.2	4.0	4.3	7.8
2e6948	33.7	36.4	34.7	35.1	34.8	34.8	35.0	35.3	34.9	37.3	39.8	36.0	36.9	7.8
e5cf30	34.0	29.8	29.5	28.7 28.7	29.4	28.0	14.8	14.6	14.0	15.2	30.6	14.7	14.2	8.3
42bb03	33.2	29.9	29.0		28.6	27.6	14.7	14.1	14.3	15.6	30.3	14.4	13.6	7.5
a40f7b 35b503	34.1 34.9	29.7 30.1	28.8 29.4	23.7	19.1	22.0	14.6 15.0	14.3	13.0 14.3	13.6	20.0 29.2	12.3	12.3	7.5
		30.1	29.4	30.0 21.7	27.8	28.8	15.0	14.8	1	15.2	29.2	14.2 13.0	13.1 12.2	7.6
daabb3 abe114	34.6 33.1	30.3	29.2	30.4	21.5 22.6	21.0 29.1	15.0	13.2 14.7	13.8 13.4	14.1 13.8	23.8	14.3	12.2	7.8 7.4
647e36	34.1	3.8	3.8	4.0	3.7	3.7	3.7	3.9	4.1	4.0	4.7	3.9	4.0	8.2
727d01	33.4	35.3	34.6	35.2	35.8	34.0	35.0	34.9	35.2	36.4	39.0	36.0	36.8	8.3
848385	33.3	30.6	29.3	21.9	21.7	21.2	14.7	13.4	13.1	13.4	23.0	12.9	12.7	7.7
f0b104	33.7	34.9	34.3	33.9	34.2	33.7	34.6	34.3	34.5	35.8	37.8	35.2	35.8	7.7
97bf71	33.7	30.6	29.0	21.4	21.6	20.4	14.6	13.3	13.3	13.3	23.4	12.0	12.5	8.1
615b24	35.7	37.6	36.4	36.4	38.1	36.4	36.6	37.3	36.9	37.8	40.7	37.6	39.0	7.7
a712db	-107.2	-113.9	-90.3	-94.6	-80.3	-111.8	-79.6	-100.9	-97.8	-100.4	-104.2	-106.5	-126.4	-70.0
d5c64b	-107.2	3.9	3.9	3.8	3.9	3.7	4.0	3.9	3.8	4.1	4.4	4.2	3.9	-63.7
19f366	-101.3	-108.2	-105.5	-121.4	-101.1	-103.9	-64.8	-74.5	-86.5	-88.6	-111.4	-85.6	-85.6	-92.5
94a361	-84.6	-91.3	-91.8	-79.6	-92.2	-95.8	-87.0	-96.9	-69.3	-93.0	-111.4	-92.9	-85.9	-92.3
40295a	-84.6 -93.5	3.9	3.8	3.8	3.9	3.8	4.2	3.7	3.8	4.1	4.4	3.9	4.0	-84.8 -68.7
fee2a5	-93.3	-84.2	-108.2	-74.5	-92.2	-94.1	-83.0	-77.8	-70.7	-84.6	-115.2	-87.4	-79.0	-89.1
3c9dd9	-106.6	-92.1	-93.5	-90.7	-92.2 -76.1	-100.4	-85.0	-77.8	-88.8	-108.5	-113.2	-84.5	-86.1	-74.0
sum	2142.5	1666.9	1633.5	1576.7	1484.7	1592.1	1109.2	1129.7	1098.5	1197.2	1657.4	1146.9	1142.4	927.9
mean	43.7	34.0	33.3	32.2	30.3	32.5	22.6	23.1	22.4	24.4	33.8	23.4	23.3	18.9
mean	43.1	34.0	33.3	34.4	30.3	34.3	22.0	43.1	22.4	24.4	33.0	23.4	23.3	10.9

TABLE XLIX: Outcomes of RPS (rps-vms) stream-lib time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
6a6645	582.8	827.9	112.5	622.5	461.5	117.4	560.3	600.0	107.4	453.9	112.4	105.6	112.2	88.5
91d215	581.8	106.8	90.0	100.8	94.2	91.7	-93.2	-98.6	88.1	90.7	88.5	84.3	92.8	90.1
c0e238	594.8	101.7	88.8	95.5	91.0	93.1	90.4	95.9	87.3	88.2	90.0	84.7	92.9	88.6
63255d	858.6	807.5	97.2	369.7	261.8	99.9	553.4	546.1	92.0	471.8	96.1	88.5	96.4	87.8
0f2183	601.2	359.8	93.8	624.4	384.6	99.4	418.4	519.2	90.8	384.4	94.4	88.4	94.4	89.8
98b913	647.7	685.2	94.5	-616.5	382.5	98.0	493.8	494.1	91.0	231.7	94.7	87.7	94.4	89.3
43aecb	664.5	682.3	95.1	620.5	455.8	101.1	446.0	465.3	92.6	256.4	97.3	89.9	97.6	88.9
0c33f1	477.9	819.1	93.7	501.7	389.4	99.4	440.3	547.5	90.1	369.9	93.3	87.6	94.0	89.5
0eca17	599.7	822.1	93.3	622.7	404.6	97.8	569.9	541.6	88.9	383.7	-93.5	85.7	93.4	88.6
7433ea	471.2	812.7	98.3	631.1	456.7	100.5	574.2	521.0	92.3	454.4	97.4	90.6	97.8	88.3
8da108	712.9	746.3	154.2	685.2	458.6	166.3	595.0	545.8	147.1	547.7	158.1	142.9	158.2	90.5
7d085a	509.9	5.2	4.3	4.7	4.8	4.7	4.6	5.1	4.6	5.0	4.4	4.5	4.8	90.2
22654f	757.3	96.3	91.0	90.5	87.1	92.2	91.3	92.5	89.3	89.3	89.0	84.5	-93.5	90.3
35a0d3	456.3	928.8	-451.1	608.9	421.0	841.2	505.5	836.0	365.0	391.2	485.6	403.2	570.9	87.1
b5fc30	600.6	584.5	440.6	495.1	463.3	991.8	558.6	799.7	483.5	537.0	447.2	389.6	396.1	87.1
3ac200	747.9	180.1	99.5	168.0	157.1	105.1	165.9	168.7	100.6	164.7	103.5	96.4	105.0	98.7
f0518e	715.4	183.0	103.4	176.2	161.5	110.9	172.7	179.4	106.5	168.2	107.2	104.1	113.4	105.0
8f31aa	536.4	908.3	127.7	590.3	316.6	122.5	565.7	677.8	124.7	310.0	118.5	110.5	120.1	105.6
573fa7	775.4	175.4	87.9	156.9	146.1	95.8	142.7	161.3	88.7	156.2	88.9	86.5	94.4	85.5
sum	11892.6	9833.0	2516.9	7781.2	5598.2	3528.6	7041.8	7895.4	2430.7	5554.5	2560.0	2315.1	2622.3	1729.5
mean	625.9	517.5	132.5	409.5	294.6	185.7	370.6	415.5	127.9	292.3	134.7	121.8	138.0	91.0







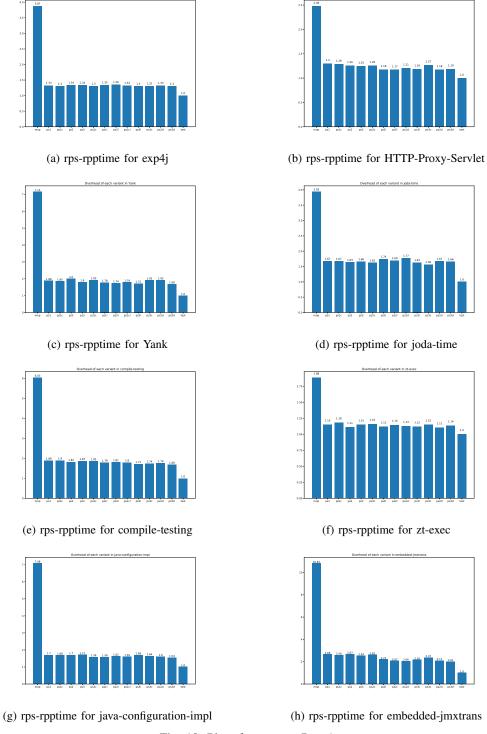


Fig. 18: Plots for rps-rpp Part 1

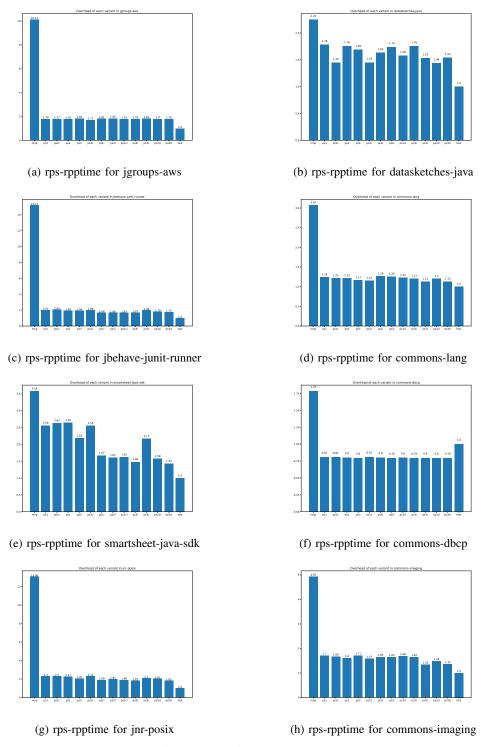


Fig. 19: Plots for rps-rpp Part 2

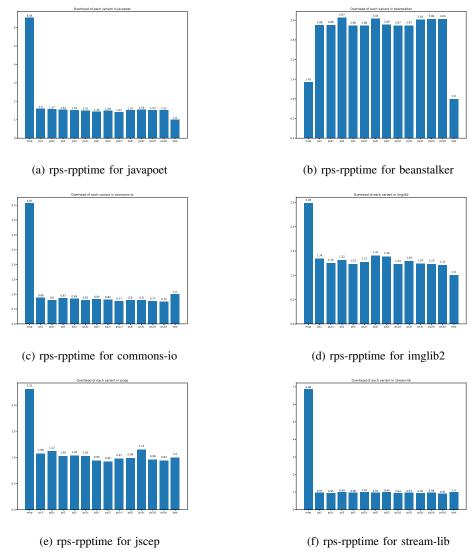


Fig. 20: Plots for rps-rpp Part END

TABLE L: Outcomes of RPS (rps-rpp) sum time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
exp4j	1757.1	604.5	590.2	607.2	605.8	591.6	610.3	614.9	603.5	591.0	595.3	603.1	590.2	453.7
HTTP-Proxy-Servlet	1617.1	849.8	840.0	822.1	814.8	823.4	769.6	764.6	789.3	776.2	830.3	767.5	777.2	652.7
Yank	356.0	93.4	92.1	99.4	89.6	95.9	88.7	86.7	88.9	85.7	95.4	95.6	83.7	49.8
joda-time	2081.0	884.8	883.0	865.0	877.1	855.4	921.5	895.3	936.7	862.7	827.8	884.2	876.1	529.2
compile-testing	1844.4	576.7	579.6	557.3	571.7	566.8	546.2	552.2	548.8	523.7	532.3	537.4	514.4	305.7
zt-exec	386.0	235.7	242.5	227.5	235.5	237.9	229.0	234.8	231.2	229.4	235.6	226.6	232.8	204.9
java-configuration-impl	629.2	151.1	149.2	151.0	151.7	140.7	140.3	143.9	141.3	150.0	145.9	142.1	137.2	88.9
embedded-jmxtrans	2174.5	534.2	519.6	537.0	510.4	526.2	444.1	416.2	413.4	433.7	476.3	423.6	403.6	201.1
jgroups-aws	464.5	82.1	81.3	81.0	83.9	78.4	83.1	84.7	81.6	81.8	83.2	82.6	81.7	45.9
datasketches-java	3785.2	3000.2	2435.7	2961.8	2846.5	2446.8	2746.4	2932.4	2654.8	2956.6	2578.1	2428.3	2590.9	1683.3
jbehave-junit-runner	3524.8	467.0	474.3	451.2	449.6	461.3	390.8	386.2	387.1	387.5	458.9	416.0	406.4	232.3
commons-lang	1254.7	507.9	497.2	497.5	476.8	471.8	517.1	514.6	500.5	493.4	462.2	491.3	463.2	409.1
smartsheet-java-sdk	964.9	690.8	710.0	712.5	588.2	688.6	450.7	433.5	437.8	399.9	585.3	424.9	386.0	269.7
commons-dbcp	1796.3	814.6	811.8	807.5	801.0	816.1	809.6	799.3	804.6	799.3	803.6	801.5	800.4	1007.1
jnr-posix	7636.2	1347.7	1345.7	1328.1	1196.2	1351.3	1107.2	1152.1	1106.6	1065.0	1227.4	1182.4	1065.0	584.8
commons-imaging	1723.5	595.9	583.1	561.2	598.0	551.2	577.7	576.6	588.5	576.1	467.6	518.3	473.8	350.3
javapoet	1133.4	277.5	271.4	266.5	264.5	261.0	248.7	258.7	245.7	261.7	268.4	264.9	262.9	173.2
beanstalker	1896.3	3829.3	3838.3	4088.0	3813.7	3813.0	4050.9	3848.9	3818.3	3820.7	4018.1	4042.5	4039.7	1331.6
commons-io	7885.4	1709.9	1560.3	1692.8	1644.5	1561.1	1622.9	1599.2	1487.1	1558.9	1560.0	1501.0	1457.3	1939.2
imglib2	613.9	331.6	309.0	325.4	305.0	315.3	348.0	343.3	303.4	319.7	306.6	305.3	299.4	247.3
jscep	2142.5	997.9	1037.5	952.2	962.2	952.3	873.2	852.2	904.3	917.8	1069.5	887.4	872.3	927.9
stream-lib	11892.6	1680.2	1648.7	1715.0	1667.6	1747.6	1672.3	1718.3	1632.4	1669.9	1642.9	1696.5	1580.4	1729.5
sum	57559.5	20262.9	19500.6	20307.1	19554.0	19353.9	19248.2	19208.6	18705.7	18960.7	19270.8	18723.1	18394.7	13417.2
mean	2616.3	921.0	886.4	923.1	888.8	879.7	874.9	873.1	850.3	861.8	875.9	851.0	836.1	609.9

TABLE LI: Outcomes of RPS (rps-rpp) mean time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
exp4j	35.9	12.3	12.0	12.4	12.4	12.1	12.5	12.5	12.3	12.1	12.1	12.3	12.0	9.3
HTTP-Proxy-Servlet	33.0	17.3	17.1	16.8	16.6	16.8	15.7	15.6	16.1	15.8	16.9	15.7	15.9	13.3
Yank	22.2	5.8	5.8	6.2	5.6	6.0	5.5	5.4	5.6	5.4	6.0	6.0	5.2	3.1
joda-time	42.5	18.1	18.0	17.7	17.9	17.5	18.8	18.3	19.1	17.6	16.9	18.0	17.9	10.8
compile-testing	37.6	11.8	11.8	11.4	11.7	11.6	11.1	11.3	11.2	10.7	10.9	11.0	10.5	6.2
zt-exec	27.6	16.8	17.3	16.2	16.8	17.0	16.4	16.8	16.5	16.4	16.8	16.2	16.6	14.6
java-configuration-impl	27.4	6.6	6.5	6.6	6.6	6.1	6.1	6.3	6.1	6.5	6.3	6.2	6.0	3.9
embedded-jmxtrans	44.4	10.9	10.6	11.0	10.4	10.7	9.1	8.5	8.4	8.9	9.7	8.6	8.2	4.1
jgroups-aws	29.0	5.1	5.1	5.1	5.2	4.9	5.2	5.3	5.1	5.1	5.2	5.2	5.1	2.9
datasketches-java	80.5	63.8	51.8	63.0	60.6	52.1	58.4	62.4	56.5	62.9	54.9	51.7	55.1	35.8
jbehave-junit-runner	71.9	9.5	9.7	9.2	9.2	9.4	8.0	7.9	7.9	7.9	9.4	8.5	8.3	4.7
commons-lang	66.0	26.7	26.2	26.2	25.1	24.8	27.2	27.1	26.3	26.0	24.3	25.9	24.4	21.5
smartsheet-java-sdk	48.2	34.5	35.5	35.6	29.4	34.4	22.5	21.7	21.9	20.0	29.3	21.2	19.3	13.5
commons-dbcp	94.5	42.9	42.7	42.5	42.2	43.0	42.6	42.1	42.3	42.1	42.3	42.2	42.1	53.0
jnr-posix	155.8	27.5	27.5	27.1	24.4	27.6	22.6	23.5	22.6	21.7	25.0	24.1	21.7	11.9
commons-imaging	90.7	31.4	30.7	29.5	31.5	29.0	30.4	30.3	31.0	30.3	24.6	27.3	24.9	18.4
javapoet	59.7	14.6	14.3	14.0	13.9	13.7	13.1	13.6	12.9	13.8	14.1	13.9	13.8	9.1
beanstalker	38.7	78.1	78.3	83.4	77.8	77.8	82.7	78.5	77.9	78.0	82.0	82.5	82.4	27.2
commons-io	415.0	90.0	82.1	89.1	86.6	82.2	85.4	84.2	78.3	82.0	82.1	79.0	76.7	102.1
imglib2	32.3	17.5	16.3	17.1	16.1	16.6	18.3	18.1	16.0	16.8	16.1	16.1	15.8	13.0
jscep	43.7	20.4	21.2	19.4	19.6	19.4	17.8	17.4	18.5	18.7	21.8	18.1	17.8	18.9
stream-lib	625.9	88.4	86.8	90.3	87.8	92.0	88.0	90.4	85.9	87.9	86.5	89.3	83.2	91.0
sum	2122.7	650.2	627.3	649.8	627.3	624.7	617.5	617.1	598.5	606.6	613.3	598.9	583.1	488.5
mean	96.5	29.6	28.5	29.5	28.5	28.4	28.1	28.1	27.2	27.6	27.9	27.2	26.5	22.2

TABLE LII: Outcomes of RPS (rps-rpp) exp4j time

TABLE LII. Outcomes of Kr3 (tps-tpp) exp4j time														
sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
9b5270	103.1	14.0	14.2	15.1	15.2	14.2	14.3	15.0	15.2	14.0	14.3	14.2	14.2	9.5
abf84e	106.6	13.2	13.5	13.7	14.0	12.9	13.0	13.7	13.0	14.0	13.2	13.6	13.2	9.4
bfaeb2	107.3	13.5	13.2	13.4	14.5	13.7	13.5	13.3	13.7	13.8	13.0	13.6	12.7	9.5
4346b2	107.3	14.1	13.5	14.1	13.0	12.9	13.8	13.5	13.2	12.8	13.3	13.7	13.8	9.3
16f249	112.3	13.7	13.7	14.1	14.0	13.4	14.2	13.9	13.8	12.9	13.1	13.7	13.6	9.6
с339сс	106.9	13.9	12.4	13.9	13.7	13.6	13.4	13.9	14.5	13.3	14.4	13.9	13.0	9.6
224191	105.2	14.5	14.2	14.5	13.6	13.4	14.3	14.6	14.3	13.9	13.8	14.3	13.4	9.6
5b63e1	104.2	13.4	13.3	13.2	12.9	13.3	13.9	13.1	13.0	13.5	13.5	13.3	13.2	9.6
76ffe6	108.3	3.2	3.2	3.2	3.3	3.2	3.5	3.5	3.3	3.2	3.2	3.2	3.3	9.4
f80e8b	104.9	13.0	13.1	13.3	13.2	13.5	14.2	14.4	13.6	13.3	13.4	12.6	13.0	9.6
8ff4f1	103.3	13.4	13.8	12.4	13.4	13.1	13.4	13.1	12.6	12.6	13.1	13.8	13.0	9.7
96c52c	19.6	10.2	10.6	10.8	11.2	10.7	10.2	10.6	10.8	9.9	10.8	10.9	11.0	8.9
9d7620	14.0	13.5	13.0	12.6	13.6	12.9	12.7	13.1	12.9	12.8	13.4	12.5	12.7	8.9
1640d4	13.7	11.9	12.7	13.0	12.0	12.4	12.3	13.9	12.3	12.2	11.8	12.4	13.0	9.1
377eb0	13.7	12.9	13.5	12.8	12.7	12.6	12.4	13.0	13.8	12.9	13.2	12.8	14.1	9.0
b5b575	14.2	12.5	11.9	12.4	12.4	12.9	12.6	13.6	12.5	12.4	11.9	12.3	13.2	9.1
1f4ac3	14.1	13.3	12.4	12.5	13.1	12.6	13.5	12.8	12.8	12.6	12.9	13.1	12.6	8.9
f27e78	14.1	12.8	12.4	13.3	13.6	12.7	13.4	12.9	12.9	12.7	12.1	12.1	12.3	9.0
59849d	14.0	13.5	12.4	14.0	13.6	11.5	12.6	12.5	12.9	12.7	13.2	13.3	12.3	9.0
a97382	15.5	13.6	12.4	12.7	13.0	12.9	13.0	13.4	13.2	13.0	13.2	14.2	12.1	9.0
83de2b	15.3	13.0	13.0	13.3	13.2	I	14.4		14.1	12.7	13.3	13.0		
						13.6		14.6					12.6	9.1
70d59f	15.2	13.4	13.0	12.3	12.4	11.9	12.9	12.7	12.1	13.1	12.2	12.4	12.0	9.1
49d187	15.2	12.9	12.2	12.7	12.7	11.7	13.4	12.4	13.3	12.0	13.6	12.0	12.9	9.1
219dfc	15.8	13.3	12.7	13.0	12.9	12.9	12.7	13.8	13.4	13.3	13.0	12.6	12.5	9.2
eb7ec0	15.4	12.6	12.2	12.6	11.6	12.4	13.1	12.5	12.3	12.7	12.5	11.8	13.1	9.2
fe0b59	15.1	12.6	12.8	13.1	12.1	11.8	13.2	12.8	12.9	13.0	13.3	12.3	12.1	9.1
3d3255	15.3	12.9	12.4	12.6	13.2	13.2	13.6	13.5	11.9	12.7	12.1	13.3	13.3	9.0
fb1bd8	15.0	3.6	3.2	3.3	3.7	3.1	3.3	3.4	3.2	3.2	3.3	3.1	3.2	9.2
377f45	15.2	12.8	13.0	13.7	12.5	13.2	13.1	13.2	13.0	12.5	12.8	12.8	12.9	9.2
58938f	15.8	13.1	12.9	12.7	12.8	13.9	13.1	14.1	13.9	12.8	13.4	13.9	13.0	9.2
e329dd	15.4	13.0	12.2	13.3	13.2	12.6	13.0	12.8	12.8	12.5	11.9	13.3	11.7	9.4
9d257d	15.8	12.0	13.2	13.0	12.8	12.6	12.9	13.6	12.8	13.5	12.5	13.1	13.2	9.3
ee8d81	15.4	3.4	3.2	3.5	3.1	3.2	3.3	3.6	3.5	3.2	3.3	3.5	3.2	9.4
403989	15.8	12.9	12.4	13.0	12.9	12.3	13.4	13.5	12.7	13.0	12.6	12.6	13.3	9.1
9da6d6	15.2	13.1	12.0	13.3	13.1	12.7	12.7	13.3	12.8	12.2	12.4	13.1	11.9	9.3
8df7ad	15.6	13.1	12.0	13.3	12.7	12.5	13.2	12.6	13.4	13.2	13.7	12.9	12.6	9.2
115238	15.6	13.4	13.3	13.2	12.5	12.8	13.4	13.9	13.4	12.7	12.1	13.0	12.5	9.1
e977f1	15.6	12.9	12.3	13.2	14.0	12.8	13.2	12.8	13.3	12.3	13.1	13.1	12.8	9.3
eb606b	16.2	13.6	12.8	13.3	13.1	13.6	14.0	13.3	12.7	12.9	12.9	13.4	12.7	9.4
bc9a8a	16.1	13.3	12.8	13.1	14.0	13.3	13.2	13.0	12.9	12.8	13.0	13.1	13.1	9.1
0f86d5	15.5	13.3	12.6	13.5	13.0	12.6	13.8	13.2	13.3	13.1	13.4	13.1	13.0	9.3
fb1103	15.8	3.5	3.4	3.7	3.7	3.2	3.5	3.7	3.4	3.3	3.3	3.5	3.3	9.3
2b82f0	15.9	12.9	12.2	12.2	13.3	12.4	13.1	12.5	12.4	12.3	11.7	13.0	12.3	9.2
e3fbf3	16.0	13.4	14.4	13.8	14.1	12.9	13.2	13.8	13.2	13.7	14.3	13.5	13.9	9.2
c2f7b9	16.3	12.5	12.2	13.8	12.5	12.4	13.4	13.5	12.6	12.0	12.0	13.7	11.9	9.4
1af15f	16.4	13.3	12.5	13.1	13.1	13.5	13.6	14.2	13.5	12.4	12.7	13.6	12.9	9.2
726228	15.7	12.5	12.4	13.3	13.1	13.4	12.9	12.7	12.9	13.0	13.0	12.9	12.3	9.3
12eb15	16.1	13.7	13.7	14.4	13.8	13.1	14.1	14.3	13.9	13.5	13.8	13.9	12.9	9.2
bae815	16.2	13.5	13.6	13.1	14.1	13.7	13.8	13.5	14.0	13.4	13.2	14.0	13.5	9.5
sum	1757.1	604.5	590.2	607.2	605.8	591.6	610.3	614.9	603.5	591.0	595.3	603.1	590.2	453.7
mean	35.9	12.3	12.0	12.4	12.4	12.1	12.5	12.5	12.3	12.1	12.1	12.3	12.0	9.3
														7.00

TABLE LIII: Outcomes of RPS (rps-rpp) HTTP-Proxy-Servlet time

TABLE LITE. Outcomes of RES (ips ipp) ITET Floxy Service time														
sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
33e505	15.3	8.9	8.8	8.5	9.1	9.0	7.6	8.1	8.2	7.3	8.2	7.9	8.0	3.0
4b1e27	15.5	7.8	8.2	7.8	8.1	7.7	7.1	5.9	7.5	7.2	7.7	6.9	6.6	3.0
98985b	15.0	8.1	8.9	9.0	8.3	7.2	6.9	6.0	7.5	6.3	7.7	6.7	7.5	2.9
1d5413	15.6	8.3	7.9	7.4	8.1	8.2	5.8	7.0	6.3	6.1	7.4	6.9	6.5	2.9
cb3a0b	15.0	7.9	7.2	8.4	7.4	7.9	7.1	6.9	7.5	6.6	7.9	7.1	7.4	3.0
fa9d71	15.1	3.5	3.5	3.5	3.2	3.6	3.4	3.2	3.3	3.6	3.5	3.2	3.7	3.0
58e91f	14.8	8.2	8.7	7.8	7.9	8.0	6.9	7.6	7.0	7.0	8.0	6.7	7.0	3.0
8a41cf	15.3	7.8	8.8	8.1	7.6	8.0	6.4	6.4	8.1	6.6	8.3	6.9	6.7	3.0
6925e1	15.7	9.0	8.5	8.2	7.7	7.4	6.6	6.4	7.1	7.1	7.3	6.5	6.9	3.0
5500d9	15.8	7.1	5.8	6.2	4.8	5.8	6.5	6.1	6.7	6.3	5.4	5.5	5.5	3.1
32401f	16.8	8.8	8.7	8.7	7.9	8.1	7.0	7.0	7.2	7.2	8.0	6.7	7.0	2.9
b8405e	16.0	9.0	8.7	8.1	7.6	7.8	6.8	6.7	7.4	7.5	8.3	6.8	7.6	3.0
c93ca1	16.2	8.5	8.8	8.4	8.1	7.8	7.2	8.0	7.3	7.3	9.1	6.6	7.3	2.9
e9cc22	16.7	9.5	8.6	8.4	8.2	8.0	8.2	7.3	8.2	7.6	8.7	7.1	7.7	3.1
1e3a0c	16.7	9.7	9.1	8.3	8.6	7.2	7.2	7.2	8.4	8.0	8.6	7.7	6.9	3.2
60fe09	16.4	8.8	8.1	8.9	8.3	7.9	7.4	8.1	7.6	7.3	8.9	7.0	7.5	3.4
0afcc5	19.0	8.9	8.8	7.8	8.2	7.6	7.5	8.1	9.2	8.7	8.9	8.2	7.8	5.3
72583c	27.0	19.1	18.8	19.1	17.9	19.1	17.7	18.2	18.3	17.7	19.5	17.2	18.1	13.3
417b86	27.2	19.1	19.2	19.0	18.1	17.6	17.4	17.4	17.7	17.5	18.3	17.2	17.8	13.4
c67d99	27.4	19.1	18.6	17.6	17.5	18.6	17.4	17.0	17.7	17.5	18.2	17.2	17.8	13.4
cf2f89	31.9	23.4	24.2	22.9	23.4	24.4	21.9	23.2	23.1	22.4	25.2	22.6	23.2	18.4
5eb89e	33.1	24.1	24.4	23.8	23.1	22.9	22.7	22.7	22.9	22.0	23.5	21.7	23.3	18.4
a69a17	32.8	24.4	24.0	23.1	23.2	24.1	22.7	22.4	23.1	22.9	23.4	22.4	22.6	18.4
bfcd7d	32.4	23.2	23.0	23.1	24.2	23.2	22.7	21.7	23.5	22.2	24.2	22.4	22.0	18.6
db06a4	32.4	4.1	3.9	3.7	3.8	4.3	3.9	3.9	4.0	4.1	4.1	3.8	3.9	18.6
9df9bb	32.1	23.6	24.4	22.9	23.9	24.1	22.6	22.5	23.2	23.1	23.7	22.3	22.1	18.5
2b2d95	32.2	22.2	21.2	21.1	21.4	22.4	21.6	20.4	21.4	21.5	21.2	20.7	21.1	18.7
89f716	32.1	24.5	24.2	24.1	23.7	25.1	23.3	22.2	23.2	23.4	23.8	22.7	23.2	18.5
a58a72	31.7	24.2	24.1	23.6	23.5	23.7	22.8	22.3	22.8	23.2	24.1	22.3	22.9	18.4
6cabde	31.7	24.2	23.9	23.3	22.9	23.7	22.6	21.7	23.2	22.8	24.2	22.7	22.9	18.3
a5b6ec	31.7	3.9	3.8	3.4	3.4	3.8	3.4	3.6	3.8	3.8	3.7	3.7	3.8	18.4
d9b90d	31.9	22.2	22.9	21.4	21.4	20.9	21.8	21.0	21.2	21.9	21.3	21.8	22.4	18.4
5caba4	32.8	24.8	24.4	23.8	24.2	24.1	22.4	23.0	23.4	23.1	23.4	22.9	23.0	18.4
3bcd87	32.2	22.2	21.3	21.4	21.3	21.8	21.8	21.4	21.5	21.9	21.6	20.8	21.3	18.4
5ee88f	32.0	24.2	24.0	23.9	23.7	23.6	22.5	22.3	23.0	22.0	23.2	22.6	23.1	18.4
3050d5	32.1	24.1	24.0	23.1	23.0	23.8	22.6	21.8	22.8	22.9	25.0	22.5	23.1	18.4
babd76	32.3	24.4	24.5	23.6	23.6	23.2	22.4	22.4	23.0	22.1	24.2	22.6	21.8	18.4
4defd0	32.8	24.9	23.5	22.7	23.4	23.0	22.3	22.5	22.2	22.8	23.7	22.5	22.8	18.4
22d442	46.6	23.5	23.5	23.4	22.6	22.5	22.7	22.2	23.2	22.3	23.1	22.8	22.5	19.2
238dd2	61.8	26.9	26.5	26.6	26.6	26.2	26.1	26.3	27.6	26.2	26.2	26.6	26.7	19.9
34edf5	63.2	29.2	29.9	29.0	29.0	28.7	25.1	25.4	25.2	26.0	29.1	24.9	24.8	20.7
cec23d	64.1	27.5	26.4	26.8	25.9	26.6	26.6	27.1	26.7	26.3	27.3	26.6	27.2	21.1
fb734f	64.6	29.1	28.7	29.8	29.0	29.1	24.2	24.4	24.8	24.9	30.5	25.3	25.2	21.0
d75353	63.6	30.0	30.3	28.5	29.3	29.5	25.4	24.2	25.0	25.1	29.4	25.6	25.8	21.0
36c6a0	64.8	4.9	4.4	4.4	4.4	4.6	4.2	4.3	4.8	4.7	4.5	4.1	4.5	20.8
a5d4b6	64.0	4.2	4.3	3.9	3.7	4.2	3.9	3.9	4.2	4.0	4.0	4.1	4.2	20.8
c17fb9	63.1	30.2	29.9	29.5	28.7	29.9	24.4	25.8	25.9	25.0	28.2	25.8	26.0	20.9
7ad6d4	64.3	28.2	27.0	27.1	26.9	27.8	27.4	27.3	27.5	26.8	26.7	27.1	26.0	20.8
531709	64.3	30.6	29.6	29.4	28.6	29.7	25.3	24.7	25.1	26.4	29.7	25.7	24.7	20.8
sum	1617.1	849.8	840.0	822.1	814.8	823.4	769.6	764.6	789.3	776.2	830.3	767.5	777.2	652.7
mean	33.0	17.3	17.1	16.8	16.6	16.8	15.7	15.6	16.1	15.8	16.9	15.7	15.9	13.3
	l		l			l		1					·	

TABLE LIV: Outcomes of RPS (rps-rpp) Yank time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
5709ce	21.7	5.3	5.8	6.7	5.7	5.5	5.4	5.3	4.8	5.4	6.5	6.1	4.8	3.0
76e782	21.4	8.8	8.6	8.8	8.9	9.5	8.3	7.9	7.5	7.1	9.1	7.9	7.0	3.0
b26e90	22.6	3.0	2.9	3.3	2.8	2.9	2.9	2.8	2.9	3.0	2.9	3.1	2.9	3.0
afbca2	21.7	6.1	5.6	6.8	5.9	6.4	5.8	5.9	6.2	6.7	6.0	6.6	5.7	2.9
9245c9	21.8	2.8	2.8	3.2	2.9	3.0	3.0	2.8	3.0	2.8	3.0	3.0	2.7	2.9
88a0df	21.3	7.8	8.8	9.6	7.2	7.8	7.3	6.5	6.7	6.2	8.9	8.1	6.9	3.0
cc7c44	21.9	5.7	5.8	5.1	6.2	5.9	5.3	5.2	5.9	5.2	5.6	6.4	5.1	2.9
6fd980	21.7	3.1	2.9	3.0	2.9	3.0	2.8	3.0	3.0	2.8	3.0	3.1	2.9	2.9
24ff95	21.7	7.1	6.3	6.7	6.3	6.5	6.3	6.1	6.0	6.0	7.0	7.2	7.0	2.9
cfb9b8	22.0	6.2	5.6	5.6	5.5	6.8	6.0	6.0	6.6	5.6	5.9	7.2	5.4	3.0
580435	22.0	5.9	6.2	6.7	5.7	5.9	5.8	6.1	6.7	5.9	6.6	6.5	5.6	3.1
6752dc	22.5	3.5	3.3	3.6	3.2	3.3	3.4	3.5	3.5	3.2	3.2	3.6	3.3	2.9
a13462	22.5	5.8	5.9	6.7	5.9	7.2	6.1	5.8	6.1	6.1	6.1	6.0	5.4	2.9
ed0e73	22.7	9.8	9.3	9.9	8.9	9.8	8.7	7.9	7.9	7.6	9.7	8.2	7.5	3.7
1f3139	23.2	4.3	4.1	4.6	4.0	4.3	3.9	4.1	4.2	3.9	4.1	4.1	4.0	3.7
1031dc	25.4	8.3	8.2	9.2	7.9	8.0	7.8	7.8	8.1	8.2	7.6	8.3	7.4	3.8
sum	356.0	93.4	92.1	99.4	89.6	95.9	88.7	86.7	88.9	85.7	95.4	95.6	83.7	49.8
mean	22.2	5.8	5.8	6.2	5.6	6.0	5.5	5.4	5.6	5.4	6.0	6.0	5.2	3.1

TABLE LV: Outcomes of RPS (rps-rpp) joda-time time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
			_		_	_		_						
381cca	42.4	18.3	19.2	18.0	19.3	18.9	19.6	19.3	20.9	19.7	19.1	18.9	19.0	10.4
eaaff1	43.0	17.9	17.8	17.5	18.3	18.4	19.0	19.0	19.0	19.2	17.4	19.6	18.9	11.2
ca7bec	42.7	10.6	10.9	10.3	10.4	10.4	11.0	11.1	11.6	9.9	10.4	10.7	10.8	10.7
4d84d8	42.6	17.9	18.8	17.9	17.7	17.7	19.2	17.9	18.5	18.4	16.7	17.6	18.1	10.9
f81758	41.8	19.0	18.0	18.2	19.4	17.0	19.4	19.1	19.3	17.3	16.9	16.1	16.6	10.8
dc4376	42.8	18.2	16.6	17.5	16.2	16.2	18.7	17.8	18.6	16.6	15.3	16.7	16.0	10.7
fb2063	42.3	19.6	18.7	18.4	17.1	16.6	20.3	20.5	21.0	17.7	15.8	17.4	18.2	10.5
262448 53922f	41.2 42.9	18.2 18.9	17.7	17.9	17.3	16.1	18.6	18.5	20.2	15.4	15.6	17.0 19.5	17.3	10.5
114403	42.9	17.9	18.8	17.6	17.5	18.7 17.9	19.1	19.6 19.3	19.8 19.1	17.0	15.7 17.0	1	17.1	11.0
52757e	42.2	18.8	18.0 18.6	16.4 17.7	17.8 17.8	17.9	18.5 19.1	19.3	19.1	18.1 17.6	17.0	18.7 19.7	17.8 18.0	10.6 10.8
acff94	42.1	11.1	10.3	17.7	17.8	17.3	19.1	11.2	19.4	17.6	17.8	19.7	11.1	10.8
67e9e5	41.9	18.6	18.9	17.5	18.5	18.5	19.0	19.0	18.8	18.1	17.8	19.5	18.6	10.5
1e7b4b			17.6	18.8	1	18.4	20.2	19.0	18.8		1	19.3	19.4	10.5
b3fdbc	42.5 42.4	17.9 10.6	10.7	10.4	18.3 10.7	10.7	11.2	19.0	11.4	18.5 10.4	18.8 10.3	19.4	19.4	10.7
66825d	42.4	17.0	18.6	18.9	18.0	18.7	18.5	18.4	19.0	18.0	16.6	17.6	18.7	10.4
3ba701	42.8	18.2	18.8	18.5	18.6	17.4	19.7	18.2	21.7	18.5	16.0	19.2	17.5	11.0
b90efa	42.2	10.2	10.7	10.4	10.6	10.9	11.2	10.8	11.9	10.7	10.1	11.6	11.3	10.5
e917d7	42.4	18.2	19.0	19.5	19.2	17.3	18.5	19.0	18.8	17.3	18.4	19.1	18.9	10.5
c5c681	42.7	19.2	18.9	19.9	20.2	18.1	19.5	20.0	19.7	18.9	17.1	17.8	17.6	10.3
dfc0d8	43.0	18.4	18.5	17.4	19.0	18.8	19.0	18.1	20.0	18.8	18.9	18.5	18.5	10.3
f871b0	41.7	17.5	18.2	17.4	18.2	17.4	19.0	19.0	19.7	18.9	17.8	18.6	18.8	10.3
a7e167	42.4	11.4	11.5	11.5	11.8	11.3	12.4	11.7	12.4	11.1	10.8	11.7	12.0	11.5
5f98d6	42.4	11.4	11.3	10.4	10.8	10.3	11.6	11.7	11.7	10.9	10.3	11.7	11.2	10.8
a0aead	41.8	19.4	18.8	19.0	19.7	17.3	20.6	20.3	19.7	19.1	18.1	18.2	19.3	11.0
e9b136	42.8	11.6	11.3	11.0	11.2	11.3	11.7	11.4	12.2	11.5	10.9	11.4	11.6	10.9
b72a1f	42.4	19.1	18.6	19.2	18.9	18.8	19.4	20.5	22.1	18.8	18.9	18.3	19.2	11.0
6a4ee6	42.6	20.1	18.8	18.4	19.7	19.3	19.4	19.2	18.9	19.3	19.2	19.8	19.7	10.5
f4a109	42.4	18.3	18.9	18.2	19.2	18.8	20.2	19.9	19.8	18.4	17.4	19.5	19.5	10.8
8429e5	42.9	19.5	19.2	19.3	18.2	17.6	20.3	20.4	21.2	19.1	17.1	18.1	18.8	11.2
124fd3	42.0	11.3	11.1	11.3	11.4	10.8	12.1	10.9	12.6	10.7	10.3	11.4	11.3	11.1
ac9b98	42.0	19.2	18.5	18.8	17.8	17.4	18.9	19.3	19.4	20.3	17.6	17.6	18.2	10.5
adacfb	42.3	11.0	11.1	11.2	11.5	10.8	11.8	11.3	12.3	10.8	10.6	11.5	11.3	10.7
d4a2c3	43.0	16.9	16.3	16.1	16.7	16.9	16.7	17.2	18.3	16.9	15.8	16.7	16.0	11.1
638153	42.5	18.5	18.5	18.3	19.1	19.0	19.3	18.7	20.4	19.6	18.9	20.0	19.3	11.2
5a3cb2	42.1	19.1	19.6	19.2	18.5	17.3	20.8	19.1	20.0	18.8	17.6	18.9	18.7	11.0
e98903	42.9	11.1	11.2	10.5	11.2	10.4	11.5	10.9	11.4	11.0	10.8	11.9	11.2	11.0
b65434	43.4	11.2	10.9	10.9	11.4	11.1	11.6	10.9	12.1	11.5	10.7	11.5	11.2	11.2
8213a1	43.4	19.1	18.7	17.7	18.6	18.5	19.6	18.1	19.3	19.7	18.5	19.2	18.9	11.1
75ab8c	43.1	10.9	11.2	11.1	11.2	10.9	11.9	10.8	11.8	11.0	10.7	11.4	11.2	10.6
ed9d0a	42.8	19.1	19.6	19.7	20.3	19.8	19.1	18.7	19.4	18.8	17.7	19.2	19.7	10.9
e2f678	43.2	19.9	19.9	19.2	19.7	20.3	20.8	19.5	21.0	19.0	18.8	19.7	20.2	11.0
12559d	42.3	30.1	29.7	27.6	30.5	30.0	31.8	28.5	31.5	28.9	29.1	30.1	30.3	10.8
804e5d	43.3	30.1	29.5	29.0	29.6	27.6	30.2	29.3	30.9	28.9	26.0	29.6	28.5	10.8
bdcb70	42.9	28.4	28.2	27.5	26.6	27.1	29.1	27.8	30.0	24.6	25.2	28.0	27.0	10.6
87dcb3	42.0	20.9	20.6	20.2	20.8	20.3	21.6	20.5	21.2	20.4	20.2	20.4	21.6	11.1
52a03c	42.6	28.2	29.1	28.0	27.7	27.0	29.1	28.8	29.4	24.6	25.5	27.9	26.8	10.9
c13ba8	42.3	27.8	28.1	27.3	28.2	26.4	29.7	28.0	28.6	26.4	24.8	28.0	27.7	10.8
872d99	42.3	27.8	29.6	27.0	26.3	27.3	30.5	26.5	30.0	27.2	26.2	27.9	26.8	10.5
sum	2081.0	884.8	883.0	865.0	877.1	855.4	921.5	895.3	936.7	862.7	827.8	884.2	876.1	529.2
mean	42.5	18.1	18.0	17.7	17.9	17.5	18.8	18.3	19.1	17.6	16.9	18.0	17.9	10.8

TABLE LVI: Outcomes of RPS (rps-rpp) compile-testing time

									pe	sung un				
sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
6b89cd	31.8	12.7	13.7	13.5	13.2	13.1	12.3	11.5	12.8	11.9	11.5	12.3	12.4	5.7
fe6edd	30.4	12.8	13.1	10.9	11.9	11.8	10.5	10.8	11.6	11.1	11.7	10.8	10.0	5.7
8e9ce9	30.9	9.7	10.0	9.1	9.9	9.5	9.7	9.2	10.3	8.7	9.6	9.6	8.5	5.6
4006c1	31.3	11.0	10.2	9.4	10.6	10.1	10.8	10.2	10.1	9.7	8.7	10.7	8.6	5.8
e5e4ee	31.4	13.0	13.5	12.3	12.6	13.5	11.8	11.7	10.7	11.9	12.1	12.3	11.0	5.8
4dd5fd	31.3	10.4	9.7	9.1	9.7	10.1	9.5	9.9	10.2	9.0	9.1	9.6	10.2	5.7
0ef7e5	32.1	9.3	9.8	9.2	10.7	9.3	9.7	10.5	9.8	10.4	9.0	10.3	10.0	5.6
cc5a56	31.3	7.1	7.3	7.9	7.3	7.4	8.4	6.8	8.1	7.7	7.3	7.8	7.3	5.8
49c254	33.6	9.7	9.7	9.9	11.0	11.0	10.3	11.1	10.2	10.8	10.6	10.2	10.1	5.7
ebbc46	31.8	10.6	11.3	10.4	11.8	10.2	10.8	11.8	12.1	10.6	11.1	11.2	10.5	6.1
762247	36.9	13.8	13.4	13.3	13.2	13.7	13.4	11.7	11.9	11.7	12.7	12.0	11.6	6.2
99aed6	38.3	12.4	12.4	12.8	13.5	13.2	11.6	12.3	11.3	11.0	11.9	10.6	10.5	5.9
2678c3	38.8	11.4	10.7	10.6	11.2	10.6	11.1	11.0	11.4	11.1	10.6	11.0	10.5	6.3
acf6ae	37.9	11.1	11.2	10.3	10.5	11.7	12.5	10.9	12.2	11.1	10.8	11.6	10.7	6.1
7d31b5	38.8	13.8	14.0	12.8	14.0	13.1	12.8	12.5	12.1	11.5	12.7	12.8	11.6	6.3
3f1f22	37.9	11.8	11.8	10.9	11.6	10.9	11.5	11.8	10.7	11.0	10.6	11.0	10.9	6.5
0f4e55	37.4	5.2	5.0	4.7	4.9	4.9	5.2	5.1	5.0	4.7	4.6	5.1	4.7	6.1
20f6d4	39.8	13.4	13.5	12.5	13.7	12.9	11.5	12.4	11.7	10.6	13.4	10.7	10.8	6.2
6b3290	37.7	14.2	15.2	14.9	14.3	13.6	12.6	12.9	11.9	12.9	13.0	11.9	11.6	6.2
9ec074	38.9	13.9	13.6	13.3	14.3	13.5	12.7	13.1	11.9	11.8	12.9	12.9	11.8	6.2
38f6d0	38.0	13.6	13.4	13.8	13.3	13.6	11.6	13.0	11.7	12.3	12.0	11.3	11.8	6.2
ac382a	38.7	5.0	5.1	4.9	5.1	5.1	5.1	5.2	4.8	4.6	4.6	5.0	5.1	6.0
dd93c0	39.4	5.0	5.0	5.1	4.8	4.9	5.1	5.1	5.3	4.9	4.8	5.0	4.8	6.3
d34c5c	37.9	13.6	13.8	12.8	14.5	12.8	12.2	12.5	12.0	10.4	12.6	11.4	11.3	6.3
f04802	38.0	14.4	14.6	12.6	10.8	12.8	11.5	12.5	11.2	10.4	9.9	10.7	10.0	6.3
b3d432	38.5	14.4	14.0	14.4	11.7	14.4	13.0	14.4	12.7	l .	11.2	12.8	11.4	1
		7.2							7.5	11.7	1		7.4	6.1
e95757	38.4		7.4	7.1	7.4	7.3	7.2	7.8		7.4	7.1	7.3		6.1
b4eaa9	39.3	15.6	15.3	15.4	12.5	15.7	13.4	13.0	13.9 7.9	12.1	12.0	13.4	11.8	6.5
ffc732	38.7	7.4	7.3	7.2	7.5	7.2	7.3	7.5		7.3	7.0	7.4	7.2	6.4
b867b4	39.5	7.2	7.1	7.0	7.5	7.4	7.5	7.3	7.4	7.4	6.6	7.5	6.8	6.3
90f7d6	38.1	7.9	7.9	7.7	7.9	7.8	7.8	8.0	8.1	7.8	7.8	7.6	7.5	6.6
2a47a5	38.8	8.0	8.2	7.7	8.1	7.9	7.9	8.2	8.4	7.3	7.8	7.8	8.1	6.3
cd2c0a	39.0	15.5	15.6	15.2	15.9	14.8	12.8	13.2	14.0	12.6	14.5	13.7	12.0	6.6
80a9ee	40.3	15.2	15.5	14.9	15.5	15.8	14.2	13.8	13.5	12.6	14.3	13.3	13.3	6.4
95e749	39.8	13.5	13.9	13.0	13.6	13.2	12.9	13.4	13.6	12.1	12.5	12.6	12.3	6.4
a959de	40.8	15.8	16.1	16.1	16.1	16.5	13.4	13.6	14.5	13.1	15.1	13.7	13.9	7.1
1f8424	39.7	15.7	14.6	15.3	15.5	14.9	13.8	13.3	12.8	12.9	14.2	13.1	12.6	6.6
cb6486	41.0	13.2	13.4	13.5	13.3	13.0	13.7	14.0	13.7	13.2	12.3	13.1	12.5	6.4
c46b1b	39.7	13.4	13.7	12.8	13.8	13.7	13.9	14.0	15.0	13.6	12.9	13.2	13.1	6.5
bcad50	40.1	13.6	14.4	12.1	13.4	13.1	13.0	13.3	13.2	13.1	12.1	12.9	12.5	6.1
620d23	39.6	13.0	13.2	12.3	13.4	13.1	14.1	13.8	13.4	12.5	13.0	13.8	13.0	6.3
626025	41.5	13.4	12.7	14.1	13.2	12.7	13.2	12.7	14.7	12.7	12.7	12.4	13.0	6.7
3b9095	39.6	13.3	13.7	12.7	13.1	13.3	13.2	13.3	13.4	13.4	12.3	13.3	12.4	6.1
fd1e44	40.5	15.6	15.5	15.3	15.9	14.6	14.1	14.6	13.1	14.9	14.4	13.9	12.2	6.6
1fee4c	40.4	7.6	8.1	7.4	7.3	7.2	7.8	7.6	7.6	7.4	7.0	7.6	7.4	6.6
b748f6	40.1	14.1	13.2	13.2	13.0	12.9	13.5	13.1	13.3	12.3	12.8	13.8	13.2	6.5
115014	40.5	14.0	14.2	13.2	13.5	13.7	14.0	14.3	14.8	13.1	12.7	13.6	13.5	6.5
5dc482	39.7	15.1	15.0	14.5	15.7	15.0	12.1	13.5	12.6	13.2	14.2	13.4	13.0	6.7
1148d3	40.6	8.5	8.3	8.1	8.2	8.2	8.3	8.8	8.8	8.3	8.2	8.6	8.0	6.8
sum	1844.4	576.7	579.6	557.3	571.7	566.8	546.2	552.2	548.8	523.7	532.3	537.4	514.4	305.7
mean	37.6	11.8	11.8	11.4	11.7	11.6	11.1	11.3	11.2	10.7	10.9	11.0	10.5	6.2

TABLE LVII: Outcomes of RPS (rps-rpp) zt-exec time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
c58216	26.0	16.7	17.9	16.4	17.1	17.6	17.8	18.2	18.0	17.8	17.6	17.3	17.4	13.1
c5b972	25.5	16.9	18.2	17.6	17.1	17.0	16.5	17.5	17.0	16.7	17.6	17.3	17.3	13.2
e8609f	25.4	2.3	3.4	3.0	3.2	3.4	3.2	3.1	3.3	3.2	3.2	3.2	3.3	13.1
d964c0	25.9	17.5	18.5	17.2	17.7	17.7	17.1	16.9	17.0	17.7	17.6	17.0	17.5	13.3
d6766d	28.0	20.1	19.8	18.9	19.0	19.4	18.8	19.6	19.2	18.8	19.9	19.2	19.0	15.3
46c33c	28.0	19.3	20.4	18.7	19.7	20.4	18.9	19.9	18.9	19.1	19.4	19.7	20.5	14.9
fa782b	28.5	20.1	20.0	18.5	20.0	19.2	19.3	19.3	19.5	18.5	20.0	18.2	20.5	15.8
28ceb1	28.5	19.8	20.6	18.8	20.0	19.9	18.8	19.7	19.3	20.1	19.4	18.8	19.0	15.3
eebd89	28.6	20.0	19.8	18.4	20.3	20.3	18.5	19.3	18.3	18.8	19.2	18.1	18.8	15.2
7a7a4b	28.5	19.9	19.3	18.6	20.9	20.6	18.4	18.9	19.1	19.0	19.1	17.9	18.8	15.2
8ff8fa	28.3	20.3	19.8	18.9	20.0	20.3	20.3	19.3	19.3	19.6	19.9	18.8	19.1	15.3
a47b4c	28.6	19.7	20.8	19.6	19.3	18.9	19.0	19.9	19.4	18.4	19.7	18.3	18.5	15.2
0a5f14	28.0	3.3	3.5	3.2	2.2	3.4	3.2	3.3	3.5	3.3	3.3	3.3	3.4	15.0
6bdce0	28.2	19.6	20.5	19.7	19.1	19.9	19.2	19.8	19.5	18.4	19.5	19.6	19.7	15.1
sum	386.0	235.7	242.5	227.5	235.5	237.9	229.0	234.8	231.2	229.4	235.6	226.6	232.8	204.9
mean	27.6	16.8	17.3	16.2	16.8	17.0	16.4	16.8	16.5	16.4	16.8	16.2	16.6	14.6

TABLE LVIII: Outcomes of RPS (rps-rpp) java-configuration-impl time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
cd27a2	19.6	3.5	3.6	3.8	3.6	3.4	3.4	3.6	3.4	3.6	3.5	3.3	3.3	3.2
cd1a4d	20.1	7.0	7.8	7.3	7.7	7.4	7.3	7.3	6.8	7.1	7.1	6.9	6.9	3.3
26bb9f	20.6	6.5	6.5	6.5	6.0	7.0	6.4	6.7	6.2	6.9	7.2	6.0	6.1	3.3
becbb1	20.3	7.3	6.2	7.1	7.3	6.6	6.2	6.5	7.1	6.8	6.5	6.4	6.0	3.3
e61648	21.2	4.7	4.4	3.8	4.6	4.3	4.2	4.0	4.9	4.8	5.0	3.8	4.5	3.3
97a683	21.0	6.5	6.5	7.3	7.4	6.4	6.5	6.8	6.8	7.5	6.6	6.4	6.2	3.5
08363d	21.0	7.2	7.4	6.7	6.7	6.2	5.5	6.7	6.4	6.9	6.2	6.4	5.7	3.6
cee296	20.9	3.6	3.7	3.8	3.8	3.7	3.4	3.5	3.4	3.8	3.8	3.5	3.6	3.4
5ba64c	21.0	6.5	6.6	7.0	6.5	6.5	6.0	6.4	6.2	6.5	6.6	5.9	6.1	3.3
67efdf	21.3	6.4	6.7	6.6	6.6	6.6	6.4	6.7	6.8	6.6	6.3	7.3	6.3	3.4
866f72	21.2	6.6	7.9	7.0	7.8	6.7	6.4	6.7	6.5	6.7	6.5	6.2	6.2	3.5
00a783	21.2	7.7	6.8	7.2	6.8	6.4	6.7	6.7	6.7	7.1	6.6	7.4	5.6	3.5
b99f46	22.7	7.7	7.5	7.6	8.0	6.4	6.7	6.7	7.5	7.1	6.7	7.6	7.2	3.9
470fdf	34.6	5.5	5.5	5.7	6.0	4.7	6.3	4.8	5.4	5.7	5.9	5.8	5.2	4.4
26cd1e	35.0	7.8	7.9	7.6	7.9	6.7	8.0	7.6	7.0	8.4	8.0	6.8	7.5	4.3
459f7b	35.0	8.1	7.1	7.3	8.1	8.0	7.7	7.9	7.2	6.9	8.0	7.5	7.5	4.6
ef6525	33.2	7.9	8.3	7.8	8.0	7.6	7.5	7.9	7.3	8.4	6.9	7.4	7.7	4.3
b68766	34.5	4.6	4.5	4.5	4.4	3.9	4.3	4.2	4.1	4.3	4.2	3.9	4.0	4.4
88ada8	33.6	8.4	7.6	7.5	8.3	7.2	7.6	7.7	7.4	8.3	8.2	7.6	7.1	4.3
bd8bf4	36.6	6.5	5.6	6.9	6.2	5.9	5.2	5.4	4.9	5.5	5.1	5.7	4.5	4.4
39fe0a	36.3	8.2	8.0	8.3	8.4	7.9	6.6	7.9	7.8	8.5	8.4	7.8	7.8	4.6
7d7c4e	37.8	8.3	8.6	9.1	7.5	7.3	7.8	8.1	7.6	8.3	8.5	8.0	8.3	4.3
ed86d0	40.3	4.3	4.3	4.6	4.3	4.0	4.1	4.2	3.9	4.4	4.2	4.3	4.0	4.7
sum	629.2	151.1	149.2	151.0	151.7	140.7	140.3	143.9	141.3	150.0	145.9	142.1	137.2	88.9
mean	27.4	6.6	6.5	6.6	6.6	6.1	6.1	6.3	6.1	6.5	6.3	6.2	6.0	3.9

TABLE LIX: Outcomes of RPS (rps-rpp) embedded-jmxtrans time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
1b2955	27.0	10.2	9.7	11.1	10.5	10.1	9.1	8.3	8.8	8.7	9.1	9.5	7.9	2.9
ef88f3	27.2	8.7	8.4	9.4	8.4	8.8	8.1	7.6	8.2	8.0	7.8	8.3	7.7	3.0
64e65a	26.6	11.2	11.5	10.5	8.8	9.9	9.6	8.5	9.0	8.4	8.0	8.6	8.9	3.2
51e075	26.9	3.7	3.7	3.8	3.7	3.8	4.1	3.6	3.8	4.0	3.7	3.6	3.4	3.0
5bffe4	27.4	9.7	8.0	9.6	7.0	9.2	7.8	7.1	7.7	7.5	6.9	8.1	7.0	3.3
59e1a4	27.0	9.0	8.5	8.5	8.2	8.8	7.8	7.5	7.5	8.3	7.8	7.1	7.3	2.9
bf18d2	27.3	8.8	8.1	8.5	9.0	9.1	7.9	7.3	7.2	7.5	8.2	7.8	7.5	3.0
62c71b	46.3	8.0	8.1	8.2	7.7	9.0	7.9	7.6	8.3	7.9	7.3	7.1	8.3	3.8
e4a4c2	45.0	10.2	9.9	10.9	10.6	10.3	8.2	7.4	8.4	8.9	9.6	7.9	8.1	3.3
345190	45.9	10.7	11.8	10.9	11.1	11.5	8.5	8.6	8.2	8.2	10.1	7.7	8.6	3.3
a672b6	45.0	11.6	9.3	10.6	10.7	10.3	8.8	7.4	8.3	8.4	9.7	7.9	7.0	3.4
4f713f	45.8	10.9	10.0	10.3	11.1	11.8	8.4	7.5	8.8	8.0	10.7	8.7	8.1	3.2
78bb73	45.4	11.1	11.0	10.7	10.7	10.3	8.5	7.6	8.5	8.1	9.5	7.8	7.0	3.2
4bea3b	45.0	11.3	11.4	10.1	10.9	10.1	8.7	7.3	9.1	8.3	10.8	7.5	6.9	3.3
1f8b32	45.4	11.5	9.8	11.3	10.7	10.5	8.8	7.5	7.8	8.6	9.4	7.6	6.8	3.4
616624	45.2	11.4	10.3	11.2	10.6	10.6	8.1	7.5	9.1	8.0	9.9	8.5	6.8	3.3
656e0c	45.2	11.3	10.1	11.8	9.6	11.4	9.2	7.5	7.9	8.5	9.4	8.6	7.1	3.3
d5a3ad	45.1	10.5	10.7	10.8	10.2	10.7	8.4	7.7	7.2	7.8	9.0	7.4	7.0	3.2
dc83d7	45.8	3.7	3.7	4.1	3.8	4.2	4.0	3.7	3.5	3.9	3.7	3.8	3.4	3.4
865ea1	44.3	10.4	10.9	11.8	10.6	10.5	8.5	8.6	7.2	7.9	10.5	7.3	6.8	3.2
6e849a	47.0	10.8	10.9	11.0	11.4	10.8	8.3	8.6	7.5	7.7	10.1	8.4	7.1	3.2
8f848b	45.9	11.6	10.8	12.0	11.3	11.0	8.8	8.0	7.3	7.6	9.2	7.6	8.1	3.1
e373b6	45.4	8.2	9.1	9.6	9.3	9.0	9.7	8.9	8.2	8.7	8.3	8.2	7.8	3.3
531f04	46.1	11.5	10.1	12.7	10.8	11.7	8.7	8.1	8.0	9.0	10.5	9.2	7.8	3.2
4d8cc3	44.8	11.0	10.7	11.1	11.9	11.6	8.6	9.0	8.0	9.0	9.4	8.0	8.3	3.4
6d7f22	45.7	10.9	11.3	10.7	11.4	11.0	8.8	7.3	7.9	8.6	10.3	8.1	7.6	3.4
a1a71d	45.1	4.0	3.9	3.8	3.8	4.1	4.0	3.7	3.9	3.9	3.6	3.8	3.7	3.4
d7f390	44.4	12.2	10.9	10.5	10.6	11.4	9.3	8.2	7.8	8.9	9.3	8.1	7.5	3.5
7afbce	45.1	3.8	4.0	4.0	3.9	3.8	4.1	3.9	3.8	4.0	3.8	3.9	3.7	3.4
3474fc	48.2	7.9	8.4	8.5	7.7	8.2	8.2	8.2	8.2	8.4	8.1	8.0	8.3	3.3
0ad3b2	48.2	9.1	10.0	9.8	9.2	9.0	8.6	8.4	9.4	9.2	8.4	9.4	8.9	3.7
12d9ed	47.9	10.6	11.4	11.3	10.6	11.1	9.2	7.8	7.9	9.3	10.5	8.0	7.4	3.6
8580ef	48.0	11.0	10.8	11.8	11.5	10.6	8.2	9.0	7.9	8.9	10.5	8.9	7.5	3.6
dc18de	49.6	9.8	9.9	9.8	9.7	8.9	10.0	9.3	9.5	9.5	9.7	9.2	9.3	3.6
ee17a6	48.0	11.2	11.6	11.4	10.9	11.6	9.3	9.3	8.7	9.7	10.2	8.8	8.2	3.6
a54258	47.7	11.2	10.9	11.5	11.0	11.3	8.9	8.1	8.3	8.9	10.4	8.4	7.3	3.5
89df2c	48.4	11.5	10.7	11.4	10.3	11.2	9.7	8.9	8.0	8.6	9.7	7.8	7.9	3.8
b81845	48.7	12.8	11.2	11.5	10.5	10.8	9.5	9.6	8.3	9.1	9.0	8.9	7.9	3.4
53a984	48.8	12.1	11.4	11.4	11.9	10.8	8.6	7.7	8.6	9.4	9.9	8.1	7.9	3.7
11c7de	47.6	12.4	11.8	12.0	11.5	11.9	8.5	8.7	7.3	8.2	9.8	7.7	8.0	3.6
1ed452	47.7	10.5	12.1	10.5	10.9	12.3	9.4	8.3	8.8	8.5	10.3	8.0	8.4	3.5
48412f	48.2	11.1	11.1	11.4	9.7	10.6	9.3	9.1	7.9	8.9	10.9	9.3	8.1	3.6
bfd614	49.0	12.2	10.8	11.7	11.4	10.9	8.4	8.8	7.9	9.3	10.3	7.5	8.4	3.7
bfb812	48.4	11.0	10.8	10.1	9.2	11.4	9.6	9.7	8.9	9.8	9.4	9.4	9.4	3.6
93e572	48.4	12.9	13.1	12.9	11.5	11.9	8.9	8.3	7.2	9.1	11.1	7.8	7.3	3.7
fb570a	48.5	4.1	3.1	4.3	4.2	4.4	4.5	4.1	4.0	4.5	4.1	4.3	4.1	3.7
f11867	50.3	20.1	20.2	20.9	18.0	20.3	17.1	15.6	15.6	15.6	17.8	16.1	15.4	10.2
fc4ca5	50.2	20.2	18.9	20.3	18.8	18.5	16.2	15.3	14.5	15.8	17.7	15.9	15.3	10.2
4f1ce2	64.6	34.7	34.7	35.0	33.6	35.1	31.4	30.3	29.7	30.9	33.0	36.0	35.3	25.2
sum	2174.5	534.2	519.6	537.0	510.4	526.2	444.1	416.2	413.4	433.7	476.3	423.6	403.6	201.1
mean	44.4	10.9	10.6	11.0	10.4	10.7	9.1	8.5	8.4	8.9	9.7	8.6	8.2	4.1

TABLE LX: Outcomes of RPS (rps-rpp) jgroups-aws time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
e7896f	1.8	2.8	2.6	2.7	2.8	2.6	2.8	2.9	3.0	2.7	2.8	3.0	2.7	1.8
4b32fa	2.0	3.4	3.1	3.2	3.2	3.2	3.2	3.4	3.2	3.2	3.3	3.4	3.3	1.9
bcf770	1.9	2.8	2.7	2.7	2.9	2.9	3.0	2.8	3.1	2.8	2.8	3.1	2.9	1.9
0c4990	2.0	8.4	7.4	8.8	7.6	7.4	7.7	7.4	7.9	7.9	7.9	7.5	7.5	1.8
c5e9f0	1.9	5.6	5.5	5.4	5.6	5.3	5.7	5.6	5.8	5.8	5.4	6.0	5.2	1.9
83fa1c	25.9	5.0	5.6	4.8	5.2	5.2	4.9	5.0	4.4	4.0	4.7	4.7	5.6	3.4
83da98	25.2	3.4	3.5	3.1	3.4	3.0	3.4	3.3	3.4	3.2	3.3	3.5	3.1	2.9
f70cbf	29.0	4.0	5.0	5.2	5.9	4.5	5.0	4.6	5.7	5.5	5.2	5.0	5.2	3.2
1091a4	29.7	8.4	7.8	8.3	6.7	7.1	7.5	7.5	7.1	7.3	7.4	7.6	7.4	3.0
b3f243	26.3	4.6	4.3	3.7	5.2	4.0	4.5	4.7	3.9	4.8	4.8	4.1	4.3	3.0
741c3d	53.8	4.3	4.6	4.5	4.9	4.6	5.0	5.6	5.1	5.0	4.7	5.1	4.6	3.6
2ac9b9	52.5	3.6	3.7	3.5	3.6	3.5	3.7	3.6	3.6	3.5	3.7	3.8	3.7	3.5
480443	53.6	3.9	3.5	3.4	3.8	3.5	3.7	4.0	3.6	3.6	3.6	3.6	3.4	3.4
771d8f	52.4	7.3	7.3	7.7	8.0	6.8	8.4	8.9	7.5	7.7	8.2	7.3	7.9	3.5
1388b8	52.6	7.3	7.2	7.3	6.9	6.9	6.8	7.0	7.7	6.9	7.7	7.7	7.6	3.6
a90a3e	53.8	7.2	7.4	6.6	8.1	7.8	7.7	8.4	6.6	7.8	7.8	7.2	7.3	3.5
sum	464.5	82.1	81.3	81.0	83.9	78.4	83.1	84.7	81.6	81.8	83.2	82.6	81.7	45.9
mean	29.0	5.1	5.1	5.1	5.2	4.9	5.2	5.3	5.1	5.1	5.2	5.2	5.1	2.9

TABLE LXI: Outcomes of RPS (rps-rpp) datasketches-java time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
e2fb43	-89.4	-91.5	-59.4	-90.3	-86.7	-61.4	-84.2	-88.6	-63.5	-87.5	-63.6	-61.8	-61.5	-41.9
1ba334	-88.1	-88.0	-59.2	-89.9	-84.5	-58.1	-81.9	-87.8	-63.0	-86.3	-64.6	-58.8	-61.3	-43.2
1436f3	-86.6	-89.4	-71.0	-91.0	-84.8	-68.9	-86.3	-89.8	-71.6	-87.3	-73.2	-68.6	-73.2	-42.4
ad19fb	85.2	61.9	59.2	62.1	58.2	59.5	58.6	61.9	62.9	62.2	61.5	58.4	61.7	42.1
843c40	87.4	33.5	31.1	33.1	32.3	31.3	31.9	34.4	33.7	33.8	33.1	30.6	33.9	43.5
4a8281	-88.2	-89.2	-69.0	-92.0	-84.7	-70.3	-83.7	-89.9	-72.6	-88.4	-72.7	-68.0	-74.8	-41.5
856926	-87.8	-89.7	-59.9	-89.2	-84.8	-61.8	-83.7	-88.5	-64.2	-87.8	-62.6	-59.3	-61.8	-42.9
1cc496	-88.7	-92.2	-61.1	-90.5	-84.8	-60.7	-83.8	-91.3	-64.1	-86.2	-61.7	-59.8	-62.4	-43.1
4ede21	-89.9	-91.9	-59.9	-88.5	-87.5	-60.9	-83.2	-90.2	-62.2	-86.2	-64.0	-60.8	-63.2	-41.9
851ec9	-89.8	-91.4	-67.7	-89.1	-83.9	-69.7	-83.9	-88.6	-75.6	-87.5	-72.6	-69.9	-74.3	-42.8
fcc7e1	-87.7	-88.9	-69.3	-89.4	-85.6	-69.1	-83.4	-87.6	-74.1	-89.5	-71.3	-67.9	-72.2	-41.2
75f72c	-85.2	-86.1	-70.2	-89.2	-85.7	-67.9	-80.6	-88.8	-74.9	-87.7	-72.0	-67.5	-71.0	-42.4
b27fff	83.9	84.6	68.5	88.6	83.1	68.1	84.0	86.8	72.2	86.0	71.4	67.1	71.8	39.6
23ae68	84.8	84.8	65.6	88.2	84.3	67.1	80.1	86.6	71.4	84.0	70.0	67.4	69.7	39.8
20a6b0	85.2	87.6	65.1	88.6	84.7	68.7	80.7	87.8	71.3	84.5	70.9	66.1	71.5	40.7
08e0e2	86.5	86.6	57.1	85.7	81.2	57.8	80.4	86.6	61.3	84.3	59.0	57.1	60.8	39.6
f3a611	89.7	84.9	57.0	88.5	82.3	56.1	79.4	85.1	61.0	84.1	58.2	56.9	59.7	40.8
1c524d	86.1	84.0	66.4	86.4	83.0	65.7	78.7	87.3	70.3	86.1	68.1	65.7	70.3	40.3
562887	85.3	33.0	32.5	33.8	32.1	32.4	31.9	34.7	35.1	33.1	33.6	31.4	34.2	40.9
f0d5e1	-75.6	-51.5	-49.3	-52.2	-49.6	-49.7	-48.7	-52.0	-51.7	-51.3	-51.0	-49.1	-53.0	-31.8
cf919f	-75.5	34.3	31.1	34.2	32.1	32.3	31.0	33.5	34.5	32.9	34.5	31.0	33.7	-31.8
70f181	74.2	50.7	47.2	50.1	73.4	47.3	47.6	49.7	50.8	75.9	51.5	46.4	51.4	31.5
e2d8f0	75.8	50.0	47.9	51.0	48.7	48.3	47.6	49.4	51.3	50.0	50.2	47.9	50.5	31.5
91b26c	75.9	54.4	49.4	51.3	49.3	48.8	49.1	52.7	51.1	50.9	51.5	49.8	52.1	30.6
92cc12	-76.0	-54.2	-48.7	-52.6	-49.3	-48.9	-48.9	-51.4	-51.4	-51.5	-51.5	-49.5	-52.9	-31.3
3ca1be	77.2	52.5	48.5	51.7	47.3	47.6	48.0	50.0	51.6	49.4	50.8	47.2	51.7	30.7
55e820	76.0	54.4	48.8	50.8	48.4	48.1	47.3	51.6	53.1	50.0	50.9	48.3	51.3	31.0
11672b	76.2	54.0 57.5	48.0	51.3 52.5	48.1 50.4	48.4	48.0 50.2	52.0	52.9	50.9 52.0	50.2 51.9	49.0 50.8	52.2 53.3	31.8 31.6
83c11b	75.3 76.2	54.2	50.2 48.3	52.3	48.5	49.4	49.1	53.0 51.9	55.8 52.9	51.9	51.9	48.0		30.9
d93a6b 5aba00	-74.4	-53.7	-48.0	-52.3	-49.4	47.4 -48.2	-48.0	-50.6	-54.3	-51.9	-50.5	-49.1	51.1 -52.2	-31.3
9622f1	-74.4	36.8	30.4	35.5	31.4	31.2	31.5	34.2	36.9	33.9	34.6	32.1	35.0	-31.9
ac0aa6	78.7	54.1	48.3	52.2	48.0	47.7	48.4	51.0	56.1	51.1	51.1	48.2	52.0	31.6
0eda5e	74.7	56.0	49.4	51.5	48.8	48.7	48.5	51.8	54.9	53.0	51.2	49.2	53.0	31.5
6d9e9e	78.4	54.0	48.5	51.1	73.1	47.4	48.8	51.7	54.6	78.7	56.5	48.2	56.2	31.6
42eb24	76.0	56.7	50.6	53.9	50.5	50.0	48.1	52.5	57.0	52.5	53.0	48.9	52.3	32.1
063d1a	74.3	53.8	48.4	52.8	48.7	48.6	48.4	51.3	55.0	50.6	53.7	48.8	51.8	32.1
3a6f18	76.3	58.4	51.8	56.7	52.7	52.6	51.8	54.9	56.8	53.5	54.8	51.6	52.5	33.5
ce9bed	76.5	54.0	49.7	53.8	50.7	49.7	49.0	52.5	55.2	53.3	53.1	49.7	52.3	32.0
045e38	75.6	59.6	53.0	56.7	54.8	54.7	52.6	57.6	59.2	57.7	58.0	53.1	56.7	32.1
85a09d	78.1	53.6	47.9	51.6	48.7	48.1	47.8	50.8	52.9	50.7	50.6	47.4	50.7	32.2
4a82e4	75.3	36.3	31.4	35.7	32.6	32.4	32.0	33.2	35.7	34.6	34.8	31.2	34.6	32.2
e5081d	78.7	36.0	31.9	35.5	32.5	32.5	32.7	35.1	36.6	35.4	34.0	30.6	35.4	32.6
499a44	76.2	55.9	49.2	52.4	49.7	50.2	47.8	52.9	55.5	51.5	52.6	50.3	51.7	31.9
320a3d	74.3	35.0	32.5	34.7	30.7	31.9	33.3	34.8	37.5	32.4	34.5	30.5	34.8	31.6
d6ce71	76.4	56.6	48.5	52.3	49.9	50.1	49.8	51.6	57.2	53.6	53.6	49.7	53.3	34.5
28ec92	78.3	82.9	49.9	79.4	75.1	51.2	72.1	76.6	57.6	83.1	52.3	49.5	53.9	33.0
sum	3785.2	3000.2	2435.7	2961.8	2846.5	2446.8	2746.4	2932.4	2654.8	2956.6	2578.1	2428.3	2590.9	1683.3
mean	80.5	63.8	51.8	63.0	60.6	52.1	58.4	62.4	56.5	62.9	54.9	51.7	55.1	35.8

TABLE LXII: Outcomes of RPS (rps-rpp) jbehave-junit-runner time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
						•		_						
989cea	69.6	12.5	13.1	12.1	12.5	12.2	9.1	9.6	9.1	8.5	13.1	8.8	9.7	4.8
9f8fe5	71.7	11.0	12.4	11.2	11.6	10.9	8.2	8.2	7.4	7.8	11.6	9.2	9.5	4.7
3c2e58	69.9	11.3	11.6	12.2	11.6	11.7	8.5	9.6	8.5	9.0	11.0	9.4	9.2	4.8
6756fd	71.4	11.7	12.1	11.4	12.0	12.1	8.4	8.1	8.6	8.1	10.1	9.0	9.1	4.8
eafa46	69.0	11.4	11.4	10.9	11.4	10.9	8.6	7.6	8.5	7.5	11.2	7.8	8.9	4.8
15cc3d	71.8	3.5	3.7	3.3	3.4	3.4	3.3	3.3	3.3	3.3	3.6	3.5	3.2	4.8
0be34d	68.5	8.2	8.6	7.7	8.0	7.7	7.5	7.2	8.0	8.2	7.8	8.6	8.5	4.7
c76b75	69.6	8.6	8.6	8.3	9.0	9.0	8.0	7.8	7.5	7.9	7.9	8.9	7.9	4.8
1c33a7	69.6	12.6	13.6	12.4	12.6	12.0	9.0	8.6	8.8	9.2	11.7	9.3	9.0	4.8
63b64b	68.5	9.4	9.8	8.0	8.9	9.0	5.5	5.9	5.1	6.7	9.1	6.2	6.4	5.0
8dc4ee	68.4	11.1	12.4	11.5	11.1	11.0	9.4	9.2	8.6	8.9	11.6	8.4	8.2	4.8
c78e51	68.2	11.6	13.1	10.9	10.9	10.5	8.3	8.3	8.8	9.0	11.8	8.3	8.3	4.7
9c0b8a	70.5	9.7	10.0	9.3	8.4	8.7	8.9	8.4	8.8	10.3	8.6	9.3	9.8	4.8
b68a9c	69.2	7.7	9.6	8.7	7.7	8.7	7.5	8.4	8.2	8.3	9.1	8.8	8.5	4.9
a0d064	69.9	3.4	3.6	3.5	3.1	3.3	3.3	3.3	3.2	3.3	3.3	3.4	3.2	4.7
338958	70.5	7.9	9.2	8.2	8.1	8.9	7.8	8.4	8.4	8.7	8.1	8.6	8.2	4.9
0faec4	70.3	7.9	8.2	7.6	7.3	8.5	7.3	8.5	8.1	8.2	7.4	7.6	7.6	4.7
d43f4f	68.7	6.3	6.4	6.3	5.4	7.0	5.9	5.3	5.7	5.5	6.0	6.3	5.7	4.7
747125	68.9	9.6	10.0	9.7	9.9	10.1	8.9	10.1	8.8	10.2	9.6	9.7	9.4	4.7
d46a70	69.4	9.8	10.7	9.7	9.7	9.2	9.5	8.9	9.8	10.3	9.3	9.9	9.6	4.8
f37f4d	68.8	3.2	3.3	3.0	3.1	3.4	3.2	3.2	3.0	3.0	3.3	3.2	3.3	4.7
72f54c	68.8	12.0	10.3	10.8	11.0	11.3	8.8	8.5	8.7	8.4	10.7	8.4	9.0	4.6
1a9ed5	69.3	8.9	9.4	9.0	9.6	9.7	9.6	8.7	9.0	8.8	9.1	9.1	9.1	4.7
545f67	70.8	12.5	11.8	11.4	12.6	11.9	8.9	9.1	9.5	8.7	11.7	9.3	8.9	4.8
c7bc45	70.3	11.5	10.7	10.4	11.1	11.1	8.2	8.2	8.8	7.8	10.7	8.8	9.4	4.8
f61eec	73.1	9.0	8.8	8.6	8.3	9.8	8.3	8.5	9.4	8.6	9.5	10.1	10.2	4.7
45bb8c	70.5	9.9	10.4	9.0	9.4	10.4	9.5	9.6	9.7	9.5	10.4	9.5	9.5	4.6
25e4c7	71.9	10.3	9.8	9.9	9.5	9.5	10.0	8.6	9.3	9.7	9.6	10.1	10.8	4.9
df7e89	72.2	9.6	9.6	9.3	9.8	9.6	9.1	8.9	9.3	10.0	9.3	10.8	10.0	4.7
678357	70.5	12.2	11.0	11.1	10.7	11.6	9.3	8.9	9.0	8.7	12.6	10.4	9.5	4.6
25d1fe	70.1	11.6	11.0	11.7	10.7	11.7	8.3	9.0	8.6	7.9	11.4	9.8	9.0	4.6
1c1f87	69.6	9.1	8.5	7.8	8.3	8.8	8.6	9.0	7.9	9.2	9.2	8.8	8.1	4.6
ac017b	69.6	11.8	11.0	11.0	11.0	10.5	8.3	9.2	7.8	8.9	10.3	9.1	8.7	4.6
e893ae	69.5	11.6	11.5	11.5	11.2	12.0	9.4	7.9	7.8	8.8	11.9	9.9	9.3	4.5
a2df3c	72.0	8.8	8.3	8.6	7.8	8.3	8.7	8.2	8.8	7.3	8.1	10.5	8.9	4.6
530cf4	75.7	10.4	10.5	10.2	10.1	10.7	9.8	9.3	10.3	9.2	10.7	10.2	9.6	4.7
d037a8	75.0	3.3	3.7	3.4	3.3	3.2	3.4	3.2	3.0	3.1	3.4	3.2	3.3	4.6
7bc0fd	74.9	11.5	11.9	10.9	11.0	10.2	8.2	8.9	7.6	7.9	11.9	9.5	9.1	4.6
69879e	74.8	11.7	12.5	12.2	10.2	11.6	8.3	8.1	8.5	7.6	12.4	10.1	8.2	4.8
f8d201	75.0	11.1	12.0	11.1	11.0	12.2	8.0	8.0	8.4	8.4	11.7	10.1	8.6	4.5
9dbc92	76.6	9.4	10.1	9.9	8.9	10.3	9.3	9.1	9.7	8.4	9.9	10.1	9.0	4.8
4b015a	76.1	12.4	12.5	12.0	11.7	12.3	9.4	9.0	9.8	9.0	11.7	9.9	10.9	5.1
2a2882	76.9	12.5	12.2	12.5	11.7	11.1	10.2	9.7	9.5	8.5	11.5	9.4	9.0	4.9
b18c7d	76.4	4.2	4.1	4.0	3.9	4.1	4.0	4.0	4.0	4.0	4.2	4.3	4.3	4.7
253c76	79.0	12.6	12.7	12.1	11.4	11.7	9.3	8.6	8.9	9.1	12.5	9.2	9.6	4.8
6859e0	76.6	4.0	4.1	4.0	4.2	4.2	4.0	4.1	4.0	3.9	4.3	4.5	4.3	4.9
4b48b2	78.3	4.4	4.1	4.0	4.1	4.1	4.4	4.2	4.0	3.9	4.2	4.8	4.3	4.7
d1321c	79.1	10.8	9.6	8.9	10.1	10.1	10.4	9.0	9.3	9.4	9.6	10.2	11.1	4.7
2c2d55	79.1	11.4	10.7	!	11.4		11.0	10.8	10.4	!	11.3	!	11.1	4.8
	79.6 3524.8	467.0	474.3	10.1 451.2	449.6	11.0 461.3	390.8	386.2	387.1	11.0 387.5	458.9	11.4 416.0	406.4	232.3
sum	71.9	9.5	9.7	9.2	9.2	9.4	8.0	7.9	7.9	7.9	9.4	8.5	8.3	4.7
mean	/1.9	9.3	9.7	9.2	9.2	9.4	8.0	7.9	7.9	7.9	9.4	6.3	6.3	4.7

TABLE LXIII: Outcomes of RPS (rps-rpp) commons-lang time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
20de43	66.2	13.6	13.8	13.7	13.2	12.7	14.1	14.0	14.1	14.0	13.2	13.9	13.2	21.1
8dae1f	65.3	34.5	34.3	34.8	34.8	32.7	35.3	36.2	34.2	34.6	32.3	33.4	31.9	22.1
4f9285	66.0	33.7	34.6	32.7	32.7	31.2	33.5	34.5	35.8	35.2	31.3	31.8	32.8	21.6
22c304	65.8	34.9	30.9	33.4	31.2	31.4	35.6	34.1	31.8	31.7	29.1	32.1	29.7	22.0
101227	65.4	34.9	31.5	33.2	30.6	29.9	35.6	35.0	31.6	32.2	29.8	31.7	29.3	21.2
e863dc	65.2	33.6	33.3	33.5	29.3	31.6	34.4	34.5	33.4	31.7	30.5	33.4	29.6	21.4
f7cbda	65.9	33.8	34.7	34.0	33.8	31.8	34.2	35.6	34.7	34.2	31.8	32.5	30.1	21.6
6049e7	65.9	13.9	13.2	13.3	13.0	13.1	14.0	13.6	14.2	14.0	12.7	13.6	13.5	21.9
7d061e	65.8	30.3	30.7	28.7	28.8	28.8	31.8	30.2	30.2	29.6	28.4	30.4	28.9	21.9
bfb43d	66.2	14.0	14.3	13.4	13.2	13.5	13.7	14.0	13.5	13.5	13.2	14.0	13.1	21.5
d8ec01	66.3	29.2	29.8	29.7	29.6	29.8	30.8	29.9	29.5	29.9	29.1	30.2	28.3	21.8
6dfc3e	68.8	34.6	31.0	33.5	28.6	29.2	34.1	35.6	30.5	29.4	28.7	30.7	28.1	-21.5
5fb74a	65.9	13.8	13.1	13.3	13.4	13.9	13.9	14.0	14.3	13.6	13.5	14.4	13.2	21.6
c614fb	65.8	34.8	32.9	34.7	29.2	30.3	34.0	35.2	32.9	29.5	28.8	32.1	28.8	-21.4
0b70b0	67.5	30.1	30.7	29.7	29.6	29.9	32.2	30.3	31.0	30.6	29.1	31.4	30.2	21.5
63f11e	64.6	11.9	11.7	11.4	10.8	11.1	12.4	11.9	11.6	11.5	11.1	12.2	11.5	21.4
f5ebb9	66.3	32.1	32.1	32.3	31.8	30.1	33.0	32.2	33.0	33.0	29.4	30.8	29.2	21.5
e72654	65.7	11.8	11.5	10.9	11.1	11.1	11.7	11.7	12.2	12.1	11.2	12.0	11.3	21.2
d57505	66.0	32.5	33.2	31.3	32.0	29.6	32.7	32.1	32.1	33.0	29.1	30.8	30.7	21.0
sum	1254.7	507.9	497.2	497.5	476.8	471.8	517.1	514.6	500.5	493.4	462.2	491.3	463.2	409.1
mean	66.0	26.7	26.2	26.2	25.1	24.8	27.2	27.1	26.3	26.0	24.3	25.9	24.4	21.5

TABLE LXIV: Outcomes of RPS (rps-rpp) smartsheet-java-sdk time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
1d2e47	-47.3	-32.5	-32.8	-32.6	-32.8	-32.4	-23.5	-23.4	-23.2	-22.8	-32.3	-23.4	-23.5	-17.3
509364	-47.2	-32.6	-32.4	-33.2	-32.7	-31.7	-23.5	-22.4	-21.9	-22.6	-32.2	-21.6	-22.0	-17.5
5c83a1	-47.5	-36.7	-37.5	-37.8	-36.8	-36.4	-25.0	-23.9	-24.2	-24.0	-36.9	-24.5	-23.7	-17.6
43a4f7	-47.9	-36.7	-36.2	-37.5	-35.4	-36.2	-24.7	-23.5	-23.6	-23.7	-35.2	-22.8	-22.3	-17.8
240ee7	-47.9	-37.2	-37.2	-37.7	-36.0	-36.0	-25.0	-23.9	-23.9	-25.4	-35.7	-23.7	-23.0	-18.0
4ea223	-47.9	-41.3	-43.4	-42.8	-41.3	-41.7	-26.1	-25.7	-26.1	-25.9	-41.9	-25.3	-25.5	-18.3
177fc4	-48.0	-41.0	-41.5	-42.6	-41.1	-40.9	-25.2	-25.4	-24.7	-25.5	-40.6	-24.4	-24.7	-18.0
2844b0	-49.4	-41.1	-42.2	-42.1	-40.4	-41.0	-25.7	-25.0	-24.9	-26.2	-41.2	-24.4	-24.9	-18.1
97ecb7	-48.6	-41.7	-43.1	-43.0	-42.1	-42.2	-26.5	-26.4	-27.4	-26.9	-41.8	-26.0	-26.0	-18.4
94d558	-49.7	-41.8	-43.4	-42.1	-41.7	-41.4	-26.8	-25.8	-25.8	-26.7	-41.7	-24.8	-25.7	-18.4
de3432	50.3	42.3	41.2	43.9	31.2	40.8	25.7	25.8	25.0	24.2	30.9	24.4	22.4	18.5
4bedcb	48.9	4.6	5.1	4.8	4.4	4.4	4.7	4.4	4.8	4.5	4.3	4.5	4.8	18.3
ae8ebd	46.3	34.4	36.7	35.4	20.0	34.9	36.1	34.8	35.4	20.3	20.0	34.6	20.6	6.4
60de51	45.4	35.6	37.3	37.3	23.9	35.6	16.8	15.9	15.8	12.9	23.3	15.3	12.8	6.4
78c50e	46.4	36.3	37.7	37.4	24.1	36.3	16.7	15.2	15.5	14.4	22.5	14.4	12.5	6.5
9aa37d	49.1	34.2	35.9	36.6	22.6	35.6	37.4	35.4	36.2	23.7	22.6	35.6	22.6	6.8
73be08	49.2	38.7	39.3	39.7	24.9	38.3	18.5	16.9	17.8	14.4	25.5	16.7	13.9	6.8
aa7861	49.4	5.5	5.9	5.7	5.3	5.3	6.0	5.7	5.7	5.6	5.2	5.4	5.5	6.7
5a20f2	48.4	36.6	38.1	38.8	24.3	36.9	16.5	15.6	15.1	13.8	24.0	14.3	12.8	6.6
cbe2f7	50.2	39.9	43.1	41.5	27.3	40.5	20.1	18.6	20.6	16.3	27.7	18.8	16.7	7.3
sum	964.9	690.8	710.0	712.5	588.2	688.6	450.7	433.5	437.8	399.9	585.3	424.9	386.0	269.7
mean	48.2	34.5	35.5	35.6	29.4	34.4	22.5	21.7	21.9	20.0	29.3	21.2	19.3	13.5

TABLE LXV: Outcomes of RPS (rps-rpp) commons-dbcp time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
dba639	-94.7	8.2	7.6	7.0	7.2	8.0	7.7	7.2	7.4	7.2	7.2	7.3	7.0	-52.9
141671	-94.2	7.6	7.8	7.1	7.2	7.7	7.8	7.5	7.3	7.4	6.2	7.1	7.3	-52.7
b19355	-94.1	-59.1	-59.4	-58.5	-58.1	-58.9	-58.5	-58.4	-58.5	-58.1	-58.3	-58.2	-58.1	-52.6
43a618	-94.6	-57.9	-58.0	-56.8	-57.1	-57.6	-57.7	-57.5	-58.0	-57.3	-57.8	-57.6	-56.9	-52.7
4475a0	-93.5	-58.4	-58.4	-57.7	-58.3	-58.5	-58.4	-57.4	-58.0	-58.0	-57.4	-57.1	-57.5	-52.6
43e1ab	-95.1	8.1	7.9	7.3	7.1	8.0	7.4	6.9	7.4	7.5	7.2	7.4	7.1	-53.1
8c0391	-94.6	8.1	7.9	7.4	7.6	7.8	7.2	7.3	7.4	7.2	7.1	7.3	7.3	-52.8
12f80f	-94.8	7.9	7.7	7.2	7.1	7.6	7.3	6.9	7.4	7.6	7.6	7.2	7.3	-53.1
3ba469	-94.6	9.1	8.8	8.6	8.2	8.7	8.5	8.1	8.2	8.3	8.8	8.2	8.1	-53.5
0f656a	-95.1	-59.1	-58.3	-58.0	-58.4	-59.1	-58.4	-58.6	-57.9	-58.2	-58.6	-58.1	-57.7	-53.2
6bcbad	-94.4	-59.3	-58.8	-59.2	-57.4	-58.6	-59.0	-57.7	-57.7	-58.2	-58.4	-58.1	-58.4	-53.0
0b5b1b	-95.1	-58.1	-58.5	-58.8	-58.2	-59.3	-58.4	-57.9	-58.3	-57.7	-58.0	-58.1	-58.3	-53.2
f74029	-94.5	-58.6	-59.2	-58.4	-58.1	-59.2	-58.9	-57.7	-58.6	-58.5	-57.7	-58.1	-59.1	-53.3
8a1c11	-94.0	-59.8	-59.0	-58.9	-58.8	-59.9	-59.6	-58.9	-59.1	-58.2	-58.9	-59.0	-58.4	-53.2
e65434	-94.3	-58.7	-58.6	-59.4	-58.2	-59.2	-59.1	-58.4	-58.2	-57.9	-58.0	-57.9	-58.7	-53.3
861879	-94.8	-59.0	-58.7	-58.5	-58.2	-59.0	-58.3	-57.9	-58.5	-57.6	-59.2	-58.1	-57.7	-53.0
6641cc	-94.7	-59.1	-58.9	-59.4	-58.7	-59.6	-59.0	-57.8	-58.9	-58.7	-58.9	-58.8	-58.4	-52.9
840871	-94.7	-59.2	-59.2	-59.6	-58.7	-59.9	-59.8	-58.6	-59.3	-58.0	-59.2	-58.8	-58.5	-53.1
6a6504	-94.6	-59.3	-59.1	-59.7	-58.2	-59.5	-58.7	-58.5	-58.3	-57.8	-58.9	-59.0	-58.5	-52.8
sum	1796.3	814.6	811.8	807.5	801.0	816.1	809.6	799.3	804.6	799.3	803.6	801.5	800.4	1007.1
mean	94.5	42.9	42.7	42.5	42.2	43.0	42.6	42.1	42.3	42.1	42.3	42.2	42.1	53.0

TABLE LXVI: Outcomes of RPS (rps-rpp) jnr-posix time

Heart Hear		1													
bab ba ba ba ba ba ba b	sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
220614	496890	143.2	17.4	16.7	17.4	17.7	17.8	17.4	17.7	17.4	18.0	17.4	18.0	18.8	12.3
28600c 143.8 26.6 27.1 25.4 26.6 27.4 20.2 21.0 20.7 20.3 26.5 21.7 20.5 12.5	ba4016	146.1	16.5	16.8	17.3	16.2	17.4	16.7	17.4	17.4	17.9	17.8	17.3	17.8	12.2
Bob	220614	145.6	16.3	16.8	16.1	15.8	18.3	15.7	17.1	17.0	17.4	16.6	17.2	17.1	12.2
668812 2.5 -2.2 -2.2 -2.3 -2.3 -2.5 -2.4 -2.5 -2.4 -2.5 -2.3 -2.5 -2.3 -2.4 -2.5 -2.4 -2.5 -2.4 -2.5 -2.4 -2.5 -2.4 -2.5 -2.4 -2.5 -2.4 -2.5 -2.4 -2.5 -2.4 -2.2 -2.3 -2.4 -2.5 -2.4 -2.5 -2.4 -2.5 -2.4 -2.2 -2.3 -2.4 -2.3 -2.4 -2.5 -2.4 -2.5 -2.4 -2.2 -2.3 -2.4 -2.3 -2.4 -2.5 -2.5 -2.4 -2.5 -2.4 -2.5 -2.5 -2.4 -2.5 -2.4 -2.5 -2.5 -2.4 -2.5 -2.5 -2.4 -2.5 -2.5 -2.4 -2.5 -2.5 -2.4 -2.5 -2.5 -2.4 -2.5 -2.5 -2.4 -2.5 -2.5 -2.4 -2.5 -2.5 -2.4 -2.5 -2.5 -2.4 -2.5 -2.5 -2.4 -2.5 -2.5 -2.4 -2.5 -2.5 -2.5 -2.4 -2.5 -2.5 -2.4 -2.5 -2.5 -2.4 -2.5 -2.5 -2.4 -2.5 -2.5 -2.5 -2.4 -2.5 -2.5 -2.5 -2.4 -2.5 -2.5 -2.4 -2.5 -2.5 -2.5 -2.5 -2.4 -2.5 -2.5 -2.5 -2.5 -2.5 -2.5 -2.5 -2.4 -2.5 -2.5 -2.4 -2.5	28a09c	143.8	26.6	27.1	25.4	26.6	27.4	20.2	21.0	20.7	20.3	16.9	21.2	17.3	12.2
643956 144.6 26.6 26.7 26.1 26.3 26.6 -19.8 21.7 20.1 21.0 27.1 20.9 20.4 12.4 23.3 24.4 25.5 24.4 22.2 23.5 24.8 25.5 24.8 22.1 20.3 21.3 27.4 22.5 24.4 22.2 23.8 24.8 27.3 26.5 26.3 25.9 28.4 19.7 21.2 20.3 21.3 27.4 22.1 20.7 21.4 21.8 23.8 29.4 23.6 22.5 24.4 22.5 24.4 22.5 24.4 22.5 24.4 22.5 24.4 22.5 24.4 22.5 24.4 22.5 24.4 22.5 24.5	a03b2e	145.9	26.3	25.8	26.1	26.7	27.0	19.8	20.5	19.1	20.3	26.5	21.7	20.5	12.2
440396a -2.3 -2.3 -2.4 -2.1 -2.5 -2.4 -2.2 -2.3 -2.4 -2.5 -2.4 -2.7 -2.6 -2.7 2.5 -2.4 -2.2 -2.3 2.4 -2.5 -2.4 -2.7 -2.6 2.9 2.9 2.9 2.0 2.1 2.7 22.4 2.3 2.9 2.8 2.9 2.9 30.6 21.3 2.2.4 21.7 21.8 3.07 -2.2.5 21.4 12.2 3.0 2.7 -2.2.5 21.4 12.2 5.0 2.0 2.2 2.7 21.3 2.3 2.9 2.2 2.1 2.2 23.1 2.9 2.2 2.1 12.7 21.3 2.0 2.2 2.2 21.7 2.2 3.1 2.9 2.2 2.9 2.9 2.9 2.0 6.0 12.1 17.7 22.1 18.8 12.2 2.0 2.9 2.2 2.2 11.7 17.7 2.2 11.7 17.7 2.2	6c8812	-2.5	-2.2	-2.2	-2.3	-2.3	-2.5	-2.4	-2.5	-2.3	-2.5	-2.3	-2.4	-2.4	-2.3
e9558 143.3 27.3 26.5 26.3 25.9 28.4 19.7 21.2 20.3 21.3 27.4 22.1 20.7 22.5 12.4 40fa74 160.6 28.5 28.2 28.1 29.2 28.9 22.1 22.7 22.4 23.8 29.4 23.6 22.5 12. 1548th 155.6 30.3 29.6 29.2 29.9 30.6 21.3 22.4 21.7 21.8 30.7 -22.5 21.4 12.1 4cds7f 157.1 29.8 29.8 29.8 29.4 30.1 30.6 21.8 22.7 21.3 23.1 29.7 -22.4 21.7 12. 4cds7f 155.8 31.2 30.7 29.3 29.8 30.2 21.7 22.3 21.9 22.3 31.4 -22.5 20.6 12.3 4ds2ab 170.3 30.4 29.9 29.4 16.9 30.4 22.0 22.0 22.1 17.2 17.7 22.1 18.8 4ds2ab 170.3 30.4 29.9 29.4 16.9 30.4 22.0 22.0 22.1 17.2 17.7 22.1 18.8 4ds2ab 170.3 30.6 31.7 30.9 31.8 30.9 21.7 23.3 21.9 23.0 33.2 22.7 22.4 12. 4ds252 170.3 30.1 30.1 29.3 16.2 30.0 22.3 22.7 21.1 17.0 18.0 22.6 18.6 18.6 4ds26as -1.1 -1.1 -1.1 -1.1 -1.1 -1.2 -1.1 -1.2 -1.2 -1.2 -1.2 -1.2 -1.3 -1.2 -1.2 -1.2 -1.3 4ds26as -1.1 -1.1 -1.1 -1.1 -1.1 -1.2 -1.1 -1.2 -1.2 -1.2 -1.2 -1.3 -1.2 -1.2 -1.2 -1.3 -1.2 -1.3 -1.3	6d3956	144.6	26.6	26.7	26.1	26.3	26.6	-19.8	21.7	20.1	21.0	27.1	20.9	20.4	12.5
40fa74 160.6 28.5 28.2 28.1 29.2 28.9 22.1 22.7 22.4 22.8 29.4 23.6 -22.5 12.5	40396a	-2.3	-2.3	-2.4	-2.1	-2.5	-2.4	-2.2	-2.3	-2.4	-2.3	-2.4	-2.5	-2.4	-2.5
1548 1556 30.3 29.6 29.2 29.9 30.6 21.3 22.4 21.7 21.8 30.7 22.5 21.4 12.5 22.5 23.5	e935f8	143.3	27.3	26.5	26.3	25.9	28.4	19.7	21.2	20.3	21.3	27.4	22.1	20.7	12.4
Seedlif 157,1 29,8 29,8 29,4 30,1 30,6 21,8 22,7 21,3 23,1 29,7 22,4 21,7 12,4 23,5 24,4 22,5 20,6 12,3 31,4 22,5 20,6 12,3 31,4 22,5 20,6 12,3 31,4 22,5 20,6 12,3 31,4 22,5 20,6 12,3 31,4 22,5 20,6 12,3 31,4 22,5 20,6 12,3 31,4 22,5 20,6 12,3 31,4 22,5 20,6 12,3 31,4 22,5 20,6 12,3 31,4 22,5 20,6 12,3 31,4 22,5 20,6 12,3 31,4 22,5 20,6 12,3 31,4 22,5 20,6 12,3 21,4 23,1 21,8 21,2 21,1 21,2 21,1 21,2 21,1 21,2 21,1 21,2 21,1 21,2 21,1 21,2 21,1 21,2 21,2 22,4 22,4 22,5 22,6 22,7 22,4 22,6 22,6 22,6 22,6 22,6 22,6 22,6 22,7 22,6 22,3 22,6 22,3 22,	40fa74	160.6	28.5	28.2	28.1	29.2	28.9	22.1	22.7	22.4	23.8	29.4	23.6	-22.5	12.8
ded57f 155.8 31.2 30.7 29.3 29.8 30.2 21.7 22.3 21.9 22.3 31.4 -22.5 20.6 12.3 353bf 171.5 29.3 28.4 28.0 28.5 29.1 27.8 29.6 28.3 29.3 29.6 29.7 29.5 12.4 24.2 20.0 22.0 22.1 17.2 17.7 22.1 18.8 12.0 20.0 2	1548fb	155.6	30.3	29.6	29.2	29.9	30.6	21.3	22.4	21.7	21.8	-30.7	-22.5	21.4	12.7
3878bf 171.5 29.3 28.4 28.0 28.5 29.1 27.8 29.6 28.3 29.6 29.7 29.5 12.6	5eed6f	157.1	29.8	29.8	29.4	30.1	30.6	21.8	22.7	21.3	23.1	29.7	-22.4	21.7	12.7
3878bf 171.5 29.3 28.4 28.0 28.5 29.1 27.8 29.6 28.3 29.6 29.7 29.5 12.	dcd57f	155.8	31.2	30.7	29.3	29.8	30.2	21.7	22.3	21.9	22.3	31.4	-22.5	20.6	12.6
d442ab 170.3 30.4 29.9 29.4 16.9 30.4 22.0 22.0 22.1 17.2 17.7 22.1 18.8 12.2	35f3bf	171.5	29.3	28.4	28.0	28.5	29.1	27.8		28.3	29.3	29.6	29.7	29.5	12.8
edecad 1706 28.0 29.1 28.5 15.2 28.2 29.0 29.9 27.7 15.2 15.7 30.9 15.5 12. 89629 170.1 31.6 31.7 30.9 31.8 30.9 21.7 23.3 21.9 23.0 33.2 22.7 22.4 12. ed4525 170.3 30.1 30.1 29.3 16.2 30.0 22.3 22.7 21.1 17.0 18.0 22.6 18.6 13. e8502f 168.3 30.8 30.3 30.0 17.1 30.5 21.4 23.1 21.8 17.1 18.1 21.8 17.4 12. f65dff 170.0 28.9 28.5 27.0 15.3 28.3 28.6 29.9 27.6 15.4 15.4 31.2 15.8 17.4 12. e00de3f 172.1 30.7 31.1 30.4 32.1 31.3 30.4 32.1 30.2 32.6 32.6 33.7 32.9 12. e10de3f 172.1 30.7 31.1 30.4 32.1 31.3 30.4 32.1 30.2 32.6 32.6 33.7 32.9 12. e10de3f 172.1 30.7 31.1 30.4 32.1 31.3 30.4 32.1 30.2 32.6 32.6 33.7 32.9 12. e10de3f 172.1 30.7 31.1 30.8 31.0 30.8 31.5 30.2 32.2 34.3 24.3 23.0 12. e112ff 167.8 30.7 32.0 31.1 30.8 31.0 30.8 31.5 30.2 32.7 33.5 32.8 13. a17daf 173.5 31.9 31.5 30.5 32.9 32.2 32.4 33.0 31.8 33.2 33.3 34.3 34.1 12. 2800e8 175.0 31.1 31.4 31.2 28.7 31.6 31.6 33.8 31.3 31.7 31.3 33.7 30.4 12. 2800e8 175.0 31.1 31.4 31.2 28.7 31.6 31.6 33.8 31.3 31.7 31.3 33.7 30.4 12. 2800e8 175.0 31.1 31.4 31.2 28.7 31.6 31.6 33.8 31.3 31.7 31.3 33.7 30.4 12. 2800e8 175.0 31.1 31.4 31.2 28.7 31.6 31.6 33.8 31.3 31.7 31.3 33.7 30.4 12. 2800e8 175.0 31.1 31.4 31.2 28.7 31.6 31.6 33.8 31.3 31.7 31.3 33.7 30.4 12. 2800e8 175.0 31.1 31.4 31.2 28.7 31.6 31.6 33.8 31.3 31.7 31.3 33.7 30.4 12. 2800e8 175.0 31.1 31.4 31.2 32.3 31.6 31.6 33.8 31.6 31.6 33.8 31.7 31.3 33.7 30.4 12. 2800e8 175.0 31.1 31.4 31.2 31.1 31.4 31.2 31.6 31.6 33.8 31.8 31.7 31.3 33.7 3															12.8
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e8502f 168.3 30.8 30.3 30.0 17.1 30.5 21.4 23.1 21.8 17.1 18.1 21.8 17.4 12. 62c6a3 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.2 -1.2 -1.2 -1.3 -1.2 -1.2 -1.2 0bdc3f 172.1 30.7 31.1 30.4 32.1 30.2 32.6 32.6 33.7 32.9 12. ef12f 167.8 30.7 32.0 31.1 30.8 31.0 30.8 31.5 30.2 32.6 32.3 32.2 32.3 33.2 23.3 23.3 32.9 33.5 32.8 13. a17daf 173.5 31.9 31.5 30.5 32.9 32.2 32.2 23.2 22.2 32.6 23.7 23.4 12. 28d0e8 175.0 31.1 31.4 31.2 28.7 31.6 31.9 22.5 24.2 23.2 22															13.0
62c6a3	e8502f	168.3	30.8	30.3	30.0	17.1	30.5	21.4		21.8		18.1	21.8	17.4	12.9
F65dff 170.0 28.9 28.5 27.0 15.3 28.3 28.6 29.9 27.6 15.4 15.4 31.2 15.8 12.0		-1.1	-1.1	-1.1		-1.1	-1.2	-1.1	-1.2	-1.2	-1.2	-1.3	-1.2	-1.2	-1.2
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The 91			31.1	31.4		28.7	31.6	31.6	33.8	31.3	31.7	31.3	33.7	30.4	12.8
cccb9b -1.1 <	7be191	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.2	-1.1		-1.1	-1.2	-1.1	-1.1
c5a412 174.1 35.6 35.1 35.1 35.6 36.0 24.1 25.3 24.1 24.4 36.6 25.6 27.4 13. 752f60 183.4 37.0 37.6 37.3 37.8 37.8 25.5 26.9 26.2 25.9 39.3 27.9 26.9 13. bc5484 184.5 37.4 36.5 36.4 33.6 36.4 24.0 26.0 24.8 25.5 35.2 26.5 23.3 13. d4b67f 186.3 36.4 36.5 18.8 36.4 25.2 26.1 24.3 19.7 18.4 25.4 21.6 13. de7b93 184.6 6.8 6.3 6.4 7.0 6.3 6.4 7.0 6.5 6.9 7.0 7.3 7.2 13. 2537ee 182.8 35.6 34.8 34.7 16.3 35.3 35.0 36.4 34.0 17.1 16.8 37.7 17.5	cccb9b	-1.1	-1.1	-1.1	-1.1	-1.2	-1.1	-1.1		-1.1	-1.1	-1.1	-1.1	-1.2	-1.1
c5a412 174.1 35.6 35.1 35.1 35.6 36.0 24.1 25.3 24.1 24.4 36.6 25.6 27.4 13. 752f60 183.4 37.0 37.6 37.3 37.8 37.8 25.5 26.9 26.2 25.9 39.3 27.9 26.9 13. bc5484 184.5 37.4 36.5 36.4 33.6 36.4 24.0 26.0 24.8 25.5 35.2 26.5 23.3 13. d4b67f 186.3 36.4 36.5 18.8 36.4 25.2 26.1 24.3 19.7 18.4 25.4 21.6 13. de7b93 184.6 6.8 6.3 6.4 7.0 6.3 6.4 7.0 6.5 6.9 7.0 7.3 7.2 13. 2537ee 182.8 35.6 34.8 34.7 16.3 35.3 35.0 36.4 34.0 17.1 16.8 37.7 17.5	850f7b	180.4	32.9	33.3	33.0	33.2	32.7	32.8	34.7	32.6	34.7	35.0	36.3	35.6	13.2
bc5484 184.5 37.4 36.5 36.4 33.6 36.4 24.0 26.0 24.8 25.5 35.2 26.5 23.3 13.4 4db67f 186.3 36.4 36.4 36.5 18.8 36.4 25.2 26.1 24.3 19.7 18.4 25.4 21.6 13. de7b93 184.6 6.8 6.3 6.4 7.0 6.3 6.4 7.0 6.5 6.9 7.0 7.3 7.2 13. 2537ee 182.8 35.6 34.8 34.7 16.3 35.3 35.0 36.4 34.0 17.1 16.8 37.7 17.5 13. ce0a9a 184.8 37.1 37.5 37.5 36.7 37.1 25.3 26.3 24.8 26.2 38.8 26.4 26.4 13. 16bedc 185.7 35.0 35.8 34.6 35.6 34.6 34.3 36.5 35.8 36.7 35.9 13.		174.1	35.6	35.1	35.1	35.6	36.0	24.1	25.3	24.1	24.4	36.6	25.6	27.4	13.2
bc5484 184.5 37.4 36.5 36.4 33.6 36.4 24.0 26.0 24.8 25.5 35.2 26.5 23.3 13.4 4db67f 186.3 36.4 36.4 36.5 18.8 36.4 25.2 26.1 24.3 19.7 18.4 25.4 21.6 13. de7b93 184.6 6.8 6.3 6.4 7.0 6.3 6.4 7.0 6.5 6.9 7.0 7.3 7.2 13. 2537ee 182.8 35.6 34.8 34.7 16.3 35.3 35.0 36.4 34.0 17.1 16.8 37.7 17.5 13. ce0a9a 184.8 37.1 37.5 37.5 36.7 37.1 25.3 26.3 24.8 26.2 38.8 26.4 26.4 13. 16bedc 185.7 35.0 35.8 34.6 35.6 34.6 34.3 36.5 35.8 36.7 35.9 13.	752f60	183.4	37.0	37.6		37.8	37.8	25.5	26.9	26.2	25.9	39.3	27.9	26.9	13.6
44b67f 186.3 36.4 36.4 36.5 18.8 36.4 25.2 26.1 24.3 19.7 18.4 25.4 21.6 13. de7b93 184.6 6.8 6.3 6.4 7.0 6.3 6.4 7.0 6.5 6.9 7.0 7.3 7.2 13. 2537ee 182.8 35.6 34.8 34.7 16.3 35.3 35.0 36.4 34.0 17.1 16.8 37.7 17.5 13. ce0a9a 184.8 37.1 37.5 37.5 36.7 37.1 25.3 26.3 24.8 26.2 38.8 26.4 26.4 13. 16bedc 185.7 35.0 35.8 34.6 35.6 34.6 34.3 36.5 35.8 36.7 35.9 13. 46f849 185.4 33.9 34.6 34.1 35.0 35.4 34.7 36.5 35.0 36.8 38.7 35.9 13.		184.5	37.4	36.5		33.6		24.0	26.0	24.8	25.5	35.2	26.5	23.3	13.4
de7b93 184.6 6.8 6.3 6.4 7.0 6.3 6.4 7.0 6.5 6.9 7.0 7.3 7.2 13. 2537ee 182.8 35.6 34.8 34.7 16.3 35.3 35.0 36.4 34.0 17.1 16.8 37.7 17.5 13. 7d4317 185.7 6.6 6.6 6.4 6.8 6.3 6.7 6.7 6.8 6.8 6.8 7.4 6.8 13. 16bedc 185.7 35.0 35.8 34.6 35.6 34.6 34.3 36.5 35.8 36.7 35.9 13. 46f849 185.4 33.9 34.6 34.1 35.0 35.4 34.7 36.5 35.0 36.8 38.7 35.9 13. 21e451 186.8 34.8 35.2 34.6 34.5 34.7 35.3 34.2 36.1 36.8 37.1 36.3 13. 1e1024 186.8															13.9
2537ee 182.8 35.6 34.8 34.7 16.3 35.3 35.0 36.4 34.0 17.1 16.8 37.7 17.5 13. 7d4317 185.7 6.6 6.6 6.4 6.8 6.3 6.7 6.7 6.8 6.8 6.8 7.4 6.8 13. ce0a9a 184.8 37.1 37.5 36.7 37.1 25.3 26.3 24.8 26.2 38.8 26.4 26.4 13. 16bedc 185.7 35.0 35.8 34.6 35.6 34.6 34.3 36.5 35.8 36.7 36.8 38.7 35.9 13. 46f849 185.4 33.9 34.6 34.1 35.0 35.4 34.7 36.5 35.0 36.1 36.5 38.0 35.7 13. 21e451 186.3 34.4 35.1 34.8 35.6 34.5 34.7 35.3 34.2 36.1 36.8 37.1 36.3							1								13.6
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ce0a9a 184.8 37.1 37.5 37.5 36.7 37.1 25.3 26.3 24.8 26.2 38.8 26.4 26.4 13. 16bedc 185.7 35.0 35.8 34.6 35.6 34.6 34.3 36.5 35.8 36.7 36.8 38.7 35.9 13. 46f849 185.4 33.9 34.6 34.1 35.0 35.4 34.7 36.5 35.0 36.1 36.5 38.0 35.7 13. 21e451 186.3 34.4 35.1 34.8 35.6 34.5 34.7 35.3 34.2 36.1 36.8 37.1 36.3 13. 1e1024 186.8 34.8 35.2 34.6 35.4 34.8 35.4 35.9 33.6 37.0 36.1 37.0 36.1 37.0 36.1 37.0 36.1 37.0 36.1 37.0 36.1 37.0 36.2 38.5 26.4 26.3 13. 1															13.4
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7935cb 194.9 37.2 37.1 36.7 34.3 37.2 25.1 25.1 24.8 25.6 35.0 26.8 24.4 13. 03a4a3 198.9 35.3 35.2 35.4 33.1 35.0 35.1 35.8 36.3 33.2 33.2 38.9 32.8 14. 73813c -196.1 -38.6 -37.4 -37.7 -19.2 -36.6 -24.9 -25.0 -24.5 -20.0 -20.0 -26.9 -19.8 -13 99c3b5 -195.3 -37.8 -37.6 -36.7 -37.7 -37.0 -25.2 -25.1 -25.2 -25.8 -39.3 -26.2 -25.5 -13			35.1	35.7		35.1				36.3			36.7		13.8
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99c3b5 -195.3 -37.8 -37.6 -36.7 -37.7 -37.0 -25.2 -25.1 -25.2 -25.8 -39.3 -26.2 -25.5 -13	03a4a3	198.9	35.3	35.2	35.4	33.1	35.0	35.1	35.8	36.3	33.2	33.2	38.9	32.8	14.0
			-38.6	-37.4		-19.2		-24.9		-24.5		-20.0	-26.9	-19.8	-13.8
ce6e2b -195.3 -38.5 -37.1 -36.8 -19.1 -36.5 -24.9 -25.0 -24.9 -19.8 -20.0 -26.6 -20.4 -13	99c3b5	-195.3	-37.8	-37.6	-36.7	-37.7	-37.0	-25.2	-25.1	-25.2	-25.8	-39.3	-26.2	-25.5	-13.7
	ce6e2b	-195.3	-38.5	-37.1		-19.1		-24.9		-24.9		-20.0	-26.6		-13.7
sum 7636.2 1347.7 1345.7 1328.1 1196.2 1351.3 1107.2 1152.1 1106.6 1065.0 1227.4 1182.4 1065.0 584	sum	7636.2	1347.7	1345.7	1328.1	1196.2	1351.3	1107.2	1152.1	1106.6	1065.0	1227.4	1182.4	1065.0	584.8
	mean					24.4	27.6	22.6		22.6			24.1		11.9

TABLE LXVII: Outcomes of RPS (rps-rpp) commons-imaging time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
cfeff1	90.3	44.4	43.2	43.9	42.8	43.0	43.3	43.9	44.5	42.6	28.4	41.9	33.0	20.8
212727	90.6	43.8	42.7	40.4	48.5	29.8	42.1	41.6	43.2	45.3	28.5	28.9	29.1	17.8
a9cca2	89.8	13.4	12.7	11.8	12.5	12.5	12.5	12.6	13.6	12.9	12.8	12.2	12.5	19.8
8a583a	89.7	43.7	42.9	43.4	46.6	29.0	42.7	42.9	42.3	42.0	28.1	27.6	28.5	17.6
f46d64	89.2	13.4	13.2	11.7	12.5	12.6	12.6	12.8	13.0	12.5	12.6	12.0	12.7	17.7
a32cb5	91.1	44.5	44.0	42.0	43.2	43.6	42.8	43.0	43.1	43.0	27.3	39.7	27.1	18.2
6962d8	90.3	44.2	43.9	41.5	44.9	43.2	42.6	43.3	46.1	44.0	27.6	40.1	27.8	22.5
62c8e6	90.7	42.9	43.3	38.7	41.3	41.2	42.6	40.6	43.4	42.3	40.4	38.8	41.7	18.1
ae548a	91.5	45.0	43.4	44.6	43.6	44.2	44.1	43.9	44.9	42.6	26.6	40.5	27.4	19.4
41d5cf	90.0	13.6	12.8	11.8	12.5	12.5	12.8	13.2	12.7	12.7	12.6	12.4	13.0	18.3
b43743	91.9	13.4	13.3	12.6	12.7	13.1	12.8	13.2	12.5	12.4	12.1	11.6	12.3	17.9
fb0be4	91.4	44.9	44.5	40.9	42.7	43.8	43.3	43.0	42.8	40.9	28.2	41.7	29.5	17.9
611c3b	91.0	27.8	26.4	25.0	27.2	26.5	26.9	26.7	25.9	26.4	26.3	25.4	25.5	17.9
40ab2c	91.0	13.4	12.9	11.9	12.6	13.0	13.0	13.2	13.2	12.4	12.7	11.9	12.9	17.5
c5ca63	90.7	27.9	26.0	24.3	33.1	27.2	26.8	27.1	27.9	26.3	26.3	25.2	26.2	17.6
4701b9	91.3	30.0	29.0	27.3	29.4	26.7	27.6	28.0	28.9	27.8	28.9	25.8	27.3	17.7
7862d6	91.1	30.4	30.3	29.3	33.4	29.8	29.6	30.4	30.0	31.9	30.3	27.5	30.3	18.2
51880b	91.4	29.4	29.8	29.6	28.5	29.4	30.0	29.0	30.5	29.1	28.8	27.5	28.4	17.7
0a6149	90.4	29.9	28.9	30.4	29.9	30.1	29.6	28.4	29.9	29.0	29.3	27.3	28.4	17.7
sum	1723.5	595.9	583.1	561.2	598.0	551.2	577.7	576.6	588.5	576.1	467.6	518.3	473.8	350.3
mean	90.7	31.4	30.7	29.5	31.5	29.0	30.4	30.3	31.0	30.3	24.6	27.3	24.9	18.4

TABLE LXVIII: Outcomes of RPS (rps-rpp) javapoet time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
16cd72	59.2	18.7	17.3	18.2	17.2	17.0	13.9	14.7	15.0	14.1	16.8	14.2	15.0	8.0
868524	58.4	17.1	16.3	16.4	16.8	16.8	13.1	14.1	13.1	13.3	17.0	14.3	13.4	8.5
61b0fa	60.1	16.7	17.2	16.3	17.1	16.3	13.5	13.8	13.3	13.9	16.6	15.2	14.6	8.2
bc65a0	58.6	16.9	17.2	15.9	15.8	15.6	14.0	13.4	13.6	14.5	16.6	14.0	14.3	8.4
19b9d7	59.2	13.5	12.6	12.8	12.4	12.6	12.9	13.3	12.8	13.4	12.6	13.2	13.4	8.1
01f707	58.0	13.0	12.4	12.7	12.5	11.1	12.6	13.1	12.3	12.9	12.2	12.3	12.9	8.4
fa5c19	57.9	12.9	12.5	12.5	12.5	12.2	12.2	12.2	11.8	13.6	12.5	12.2	12.1	8.3
ff50d7	58.7	13.8	12.8	13.3	13.1	12.8	12.4	13.8	12.1	12.6	13.0	12.6	13.3	8.2
b66d3d	57.7	13.7	13.7	12.6	12.5	13.0	12.3	12.1	11.5	13.1	12.3	13.9	12.5	8.2
414da3	57.1	12.4	12.5	12.5	11.9	11.8	11.3	12.1	11.5	12.4	13.1	12.6	12.5	8.3
647b93	59.7	14.6	13.7	13.9	13.8	13.8	13.8	14.5	13.4	14.4	13.4	14.9	14.4	10.0
e11279	60.9	14.3	14.3	13.2	13.7	13.7	12.8	14.8	13.7	15.0	13.6	14.6	15.1	10.0
40dfa0	61.4	14.3	13.4	14.1	13.7	14.6	13.5	13.5	12.8	14.2	13.6	14.7	14.3	10.0
4cd975	59.7	14.5	14.4	13.8	13.4	13.6	14.0	15.1	13.9	14.6	14.6	15.5	14.7	10.1
ca12c7	61.0	13.8	14.2	14.2	13.8	13.1	13.2	12.9	13.2	13.4	14.2	13.7	13.2	10.3
08c714	62.0	13.8	14.3	12.9	13.4	14.1	12.3	14.2	12.5	13.6	13.4	14.1	13.6	10.1
a5694a	62.1	15.2	13.7	14.7	14.1	13.1	13.1	13.6	13.6	14.2	14.0	15.3	14.9	10.1
384395	61.0	14.5	14.3	13.8	13.3	13.0	13.9	13.8	13.5	14.8	15.1	14.2	14.2	10.1
f5b1b6	60.6	13.9	14.6	12.5	13.6	12.8	13.8	13.6	12.1	13.7	13.9	13.2	14.5	10.0
sum	1133.4	277.5	271.4	266.5	264.5	261.0	248.7	258.7	245.7	261.7	268.4	264.9	262.9	173.2
mean	59.7	14.6	14.3	14.0	13.9	13.7	13.1	13.6	12.9	13.8	14.1	13.9	13.8	9.1

TABLE LXIX: Outcomes of RPS (rps-rpp) beanstalker time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
	-								•	_				
11a1a8	23.3	31.0	32.2	34.6	33.4	32.9	34.4	32.4	30.9	30.9	33.0	34.6	34.5	12.9
d3d9cc	24.1	35.6	37.1	37.2	34.7	35.6	36.0	35.3	36.7	34.4	37.8	36.8	36.3	12.9
fc343a	24.0	33.3	31.1	35.4	34.0	32.5	34.5	32.2	32.7	31.5	33.5	35.1	33.5	12.9
8dc528	29.9	47.0	45.1	48.7	45.7	46.1	49.6	47.0	47.3	47.3	48.6	48.2	49.1	16.8
966ec5	-21.7	-50.5	-49.9	-53.5	-48.8	-48.0	-54.5	-52.2	-52.2	-50.0	-51.1	-51.2	-54.6	-12.2
7c2a4a	0.9	0.9	1.0	1.0	0.9	1.0	1.0	0.9	0.9	0.9 0.9	0.9	1.0	1.0	0.9
68cf11	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	l	1.0	1.0	1.1	1.0
01a6eb	30.6	53.0	53.1	59.9	51.8	50.2	54.6	53.0	54.3	51.6	54.1	55.2	55.2	17.6
871176	30.2	51.1	52.1	57.6	50.8	50.3	55.0	52.9	52.5	51.2	54.1	55.3	57.3	17.2
e99f0a	35.8	60.2	57.7	63.1	58.4	57.0	60.2	56.8	58.3	58.3	62.7	61.9	60.9	21.3
70237c	37.1	60.3	61.6	63.4	59.9	59.9	66.3	61.5	60.6	60.9	63.3	64.8	65.0	21.3
cb517b	36.0	59.6	61.7	67.2	62.0	60.4	63.9	62.5	63.0	62.8	62.5	65.8	64.9	21.4
195fbe	35.8	59.3	60.2	63.3	59.8	59.6	63.0	61.8	60.6	61.2	62.7	63.2	63.7	21.3
ddf253	35.6	60.9	62.2	64.2	62.4	61.7	65.2	61.6	61.6	63.6	65.1	66.1	64.1	20.9
89c2ea	36.3	63.2	61.3	67.4	60.5	62.4	66.4	61.8	61.7	62.3	65.1	65.7	65.7	21.2
effb25	35.9	60.5	59.8	65.1	61.4	59.8	63.8	60.8	59.4	58.7	63.5	64.4	62.5	21.0
fe9fc8	35.6	69.6	68.3 59.1	72.3	69.1	69.0	73.1	68.9	69.9 59.9	69.9 59.4	72.1	72.5 62.2	70.8 63.9	21.4
0e57c6	36.2	60.1	ı	64.4	58.7	61.0	63.4	61.3	I	I	63.8	1	1	21.6
246867	36.3	59.9	60.5	64.3	60.7	60.1	66.2	60.7	58.4	61.3	65.0	65.0	64.7	20.9
ed882c	42.1	78.0	77.7	82.5	77.6	77.9	80.0	78.8	78.1	74.8	82.7	82.4	80.9	25.0
fa900c	41.9	72.4	71.0	75.2	70.5	73.7	75.6	71.8	71.5	71.1	75.0	76.5	76.2	25.2
d5387d	41.3	72.9	73.6	77.5	70.9	71.3	77.6	74.8	72.5	73.7	75.3	76.7	75.6	25.1
276985	42.2	72.5	72.5	77.8	72.0	70.0	75.5	73.8	71.7	72.4	74.0	76.7	76.1	25.3
53790c	42.4	70.6	73.1	77.5	70.3	72.7	77.4	73.1	72.7	71.5	73.5	76.7	72.8	25.2
d92ac2	42.2 41.7	71.7 79.8	72.1 79.9	75.9	68.9 79.2	71.4 79.2	76.9 87.6	72.5 81.0	69.0 80.4	71.4 81.2	76.1 84.4	76.9 83.6	76.3 82.3	25.0
57b569	41.7	1	ı	87.5	ı	1	72.3	I	69.5	68.9	1	70.8	1	25.3
dc0bfb 5599aa	42.3	69.5 72.4	71.5 73.5	73.8 78.0	68.2 70.8	68.7 72.9	74.9	69.5 72.3	70.8	70.5	71.9 76.1	75.4	73.5 75.3	24.7 24.8
97f130	41.3	70.7	73.1	76.0	71.3	72.9	74.9	70.4	70.8	70.3	75.4	77.6	72.9	24.8
35549e	33.8	68.9	69.0	72.6	68.0	67.9	71.9	68.5	68.2	68.7	72.0	72.6	72.9	25.7
3566e8	33.6	70.6	71.8	75.8	70.7	71.0	76.1	71.2	70.8	71.1	74.4	75.3	74.5	25.6
69dbfa	33.6	72.9	74.0	78.3	72.7	72.5	77.7	73.7	73.2	73.3	77.1	77.0	77.8	25.3
edaba6	-31.7	-70.1	-68.8	-74.2	-69.2	-69.1	-73.5	-69.0	-68.8	-68.2	-74.4	-72.5	-72.4	-23.2
caed60	34.5	71.6	71.4	75.6	71.0	70.4	75.3	70.5	70.4	70.7	74.2	74.5	74.8	25.6
c45847	34.8	80.8	81.6	87.3	79.5	80.3	85.3	82.1	80.2	80.4	83.0	84.7	86.3	25.5
28d121	33.9	80.7	82.2	85.6	80.2	80.6	84.7	81.5	79.7	79.7	84.3	84.7	85.1	25.6
702ded	33.8	82.1	81.3	86.8	79.7	80.3	85.9	81.6	80.6	80.8	85.0	85.4	85.4	25.6
736c69	34.1	71.7	71.7	76.2	69.9	70.8	75.7	70.5	70.2	71.1	74.6	74.8	75.1	25.9
e57574	33.4	71.0	71.1	76.3	71.1	70.6	76.1	70.6	70.4	71.3	74.6	74.9	74.8	26.2
d87076	34.3	71.0	71.2	76.6	70.5	70.7	75.3	72.1	71.0	71.3	74.4	74.7	74.4	25.8
e859da	75.9	188.1	188.0	199.6	186.4	186.1	198.3	188.6	187.2	188.0	197.6	197.8	198.7	64.9
40357a	75.7	190.7	191.3	203.5	191.1	190.9	202.2	192.0	191.4	192.1	202.1	205.3	202.8	65.1
332f14	-22.2	-23.5	-23.3	-25.1	-23.1	-23.4	-25.3	-23.6	-23.5	-23.3	-24.7	-24.2	-24.8	-21.1
c7e905	66.6	161.9	162.7	172.4	163.5	160.6	171.5	162.8	161.2	161.8	170.3	171.2	170.8	56.6
ec5fc3	68.0	162.2	163.8	174.1	163.9	162.2	171.3	163.9	163.1	163.0	173.0	174.0	173.8	57.8
ald8eb	67.4	170.9	169.6	180.7	170.7	170.6	179.6	171.6	170.3	169.3	179.8	179.2	180.6	56.7
a53ecd	67.1	170.0	169.7	180.6	171.5	170.6	180.3	170.5	169.4	171.1	179.1	178.8	183.0	57.1
620e45	66.8	170.5	170.1	181.8	172.4	172.2	180.8	169.6	168.9	169.4	179.8	178.9	181.6	57.2
cd171f	-50.2	-132.5	-132.6	-139.8	-134.7	-133.1	-139.3	-132.4	-131.7	-132.7	-139.4	-138.8	-139.5	-48.0
sum	1896.3	3829.3	3838.3	4088.0	3813.7	3813.0	4050.9	3848.9	3818.3	3820.7	4018.1	4042.5	4039.7	1331.6
mean	38.7	78.1	78.3	83.4	77.8	77.8	82.7	78.5	77.9	78.0	82.0	82.5	82.4	27.2

TABLE LXX: Outcomes of RPS (rps-rpp) commons-io time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
2196ff	411.4	12.6	12.6	12.9	12.3	12.5	13.1	12.9	12.5	12.8	12.9	13.0	13.1	101.5
65657b	414.5	13.0	12.7	11.8	12.9	11.9	13.2	12.6	13.1	13.1	13.1	13.6	12.9	101.2
6e2ac1	415.7	166.1	157.5	163.4	162.2	158.2	148.8	148.0	-142.1	147.2	157.0	143.1	137.4	101.7
b014a0	415.1	12.0	12.6	11.7	11.6	11.9	13.2	12.1	13.1	11.5	12.1	12.8	13.5	101.5
dcf6e8	412.2	114.7	114.5	114.6	113.0	114.7	115.6	115.0	114.0	114.7	115.5	115.2	115.5	102.7
84a0d9	408.8	114.4	115.2	112.7	114.1	115.2	115.6	116.0	114.9	114.4	116.1	116.9	115.5	102.1
10c8db	412.3	113.0	115.4	115.5	114.6	114.1	115.1	114.7	116.1	115.9	115.9	117.1	114.6	102.3
2bacf6	414.1	10.2	10.0	11.0	10.0	10.0	10.5	9.9	10.6	9.8	10.3	10.7	10.7	101.8
4f50c3	418.1	115.7	114.3	114.5	114.0	113.8	116.0	115.3	116.1	114.7	114.9	116.3	115.2	102.8
30280a	413.1	144.6	138.8	145.1	143.4	139.1	138.9	135.6	128.6	133.4	142.0	128.8	126.6	101.7
9cd312	407.3	146.4	138.6	144.2	143.2	139.4	137.7	135.4	128.3	134.3	141.6	129.8	127.2	101.7
c1b64e	410.9	10.9	11.2	11.8	11.5	12.0	12.2	11.6	11.9	11.4	11.5	12.1	12.0	101.9
65c4a9	409.2	11.9	11.1	11.0	11.6	11.0	12.3	11.4	12.9	12.0	12.8	12.1	11.3	101.6
86cc77	423.0	11.4	12.1	11.5	11.4	11.3	12.3	12.3	11.9	12.1	12.5	12.7	12.0	103.5
d3fc1a	422.9	12.3	11.7	11.0	10.9	11.6	12.7	10.5	12.3	10.8	12.0	11.3	10.7	101.7
d19259	420.8	149.0	140.3	150.0	147.9	139.6	140.9	138.1	130.9	139.6	138.3	132.9	127.1	103.0
ed15b0	420.5	196.3	143.7	190.8	185.7	144.9	175.7	172.1	130.0	169.2	142.5	133.8	126.2	102.1
459ceb	419.1	196.5	144.0	191.0	156.4	145.7	174.7	173.7	133.0	139.9	136.1	132.3	125.1	101.6
947c01	416.5	158.9	144.0	158.2	157.7	144.2	144.5	142.1	135.0	142.1	142.8	136.4	130.9	103.0
sum	7885.4	1709.9	1560.3	1692.8	1644.5	1561.1	1622.9	1599.2	1487.1	1558.9	1560.0	1501.0	1457.3	1939.2
mean	415.0	90.0	82.1	89.1	86.6	82.2	85.4	84.2	78.3	82.0	82.1	79.0	76.7	102.1

TABLE LXXI: Outcomes of RPS (rps-rpp) imglib2 time

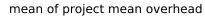
sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
311bb3	31.6	17.3	16.4	16.3	16.8	17.5	18.0	17.5	17.4	17.3	16.7	17.1	17.3	12.6
e45314	31.2	15.8	16.1	15.4	15.0	16.0	16.6	15.5	14.8	15.9	16.7	17.1	15.8	12.5
2d6644	31.2	15.7	15.6	16.3	15.3	17.5	16.7	16.3	14.6	15.7	15.5	16.0	16.2	12.6
ca346b	31.5	18.7	16.4	20.7	20.0	16.7	21.7	20.9	17.4	21.7	17.1	16.8	15.8	12.9
28c941	31.4	20.8	17.1	21.3	21.3	18.8	22.5	22.1	16.9	22.0	17.6	17.1	16.3	12.9
f835a8	31.0	6.8	6.4	6.5	6.5	6.9	6.8	7.5	6.1	6.4	6.6	6.5	6.4	12.3
a735f9	31.1	20.7	19.7	19.2	19.1	20.6	21.8	20.5	21.1	20.7	21.3	18.8	20.1	13.1
bba835	31.3	16.1	17.1	16.1	16.1	17.1	17.1	17.3	15.6	15.8	16.0	16.4	15.8	12.9
e2f354	31.2	15.9	16.2	16.0	16.4	17.2	15.9	16.8	15.9	16.4	16.6	16.1	15.6	12.4
897b86	31.5	6.4	6.5	6.5	6.7	6.5	7.1	6.9	6.7	6.6	6.7	5.1	6.0	12.9
59cf72	31.4	20.1	20.8	20.3	19.6	20.7	21.7	22.0	19.6	20.8	20.6	21.1	20.6	12.6
1941a7	31.6	21.6	20.6	21.0	19.6	20.9	21.5	21.9	20.3	21.5	21.0	19.9	21.5	12.7
ca903a	33.8	18.9	19.9	19.1	19.5	18.5	20.1	19.8	18.6	19.6	20.3	19.0	19.1	13.4
1fe7da	33.8	22.4	18.4	20.6	20.5	17.2	22.5	22.1	17.9	21.6	18.1	17.6	17.1	13.5
d5e69f	33.8	7.5	7.2	6.9	6.8	7.3	7.7	7.8	7.2	7.8	7.5	7.4	7.2	13.3
b34e8b	33.7	21.6	17.9	20.1	16.9	18.2	23.4	21.6	17.1	18.5	17.0	17.5	17.6	13.6
43e04d	34.0	21.7	18.2	20.3	16.8	17.4	21.4	22.1	17.6	16.4	17.4	17.8	16.3	13.6
156d36	34.4	21.3	20.5	20.9	15.4	21.4	22.2	21.6	20.8	17.1	17.1	20.4	17.4	13.7
599cd1	34.1	22.1	18.0	21.8	16.7	18.8	23.4	22.8	17.7	17.9	16.9	17.7	17.2	13.7
sum	613.9	331.6	309.0	325.4	305.0	315.3	348.0	343.3	303.4	319.7	306.6	305.3	299.4	247.3
mean	32.3	17.5	16.3	17.1	16.1	16.6	18.3	18.1	16.0	16.8	16.1	16.1	15.8	13.0

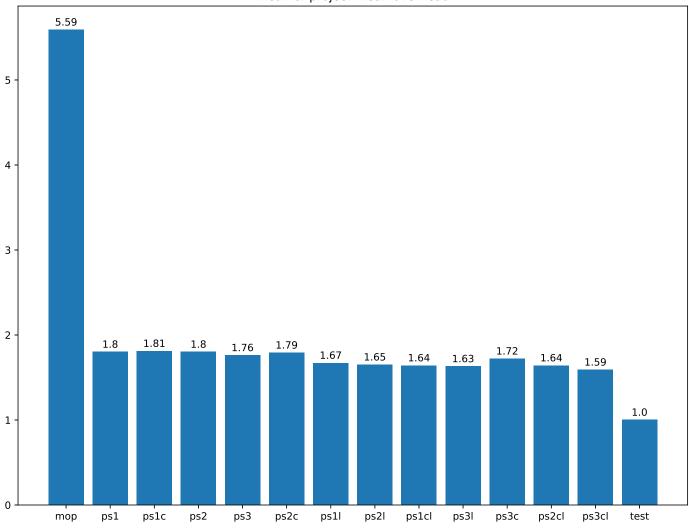
TABLE LXXII: Outcomes of RPS (rps-rpp) jscep time

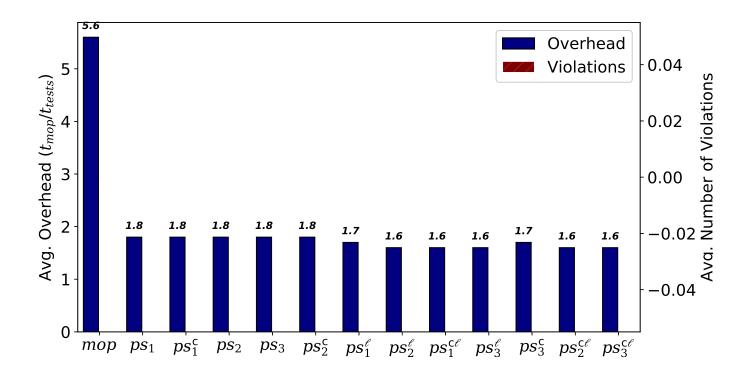
							105 OT 10	` 1	ipp) jsec	•				
sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps21	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
e553d4	46.9	28.6	28.0	28.0	28.5	27.5	26.6	26.5	26.7	27.3	28.8	26.4	25.7	21.9
ce7b9a	47.9	25.2	25.5	25.7	25.6	24.8	25.3	25.8	25.3	24.6	26.1	25.8	25.2	21.8
8cd073	47.6	29.3	29.8	28.6	29.5	28.3	26.1	25.3	26.3	25.6	29.9	26.6	26.0	21.8
6e794a	47.7	28.8	29.4	29.2	30.2	29.0	26.5	27.2	26.5	27.3	29.3	26.2	26.6	22.3
c77163	33.7	15.4	14.6	14.7	13.9	14.2	12.8	12.4	12.7	13.0	14.8	12.7	11.9	7.6
da5108	33.8	15.2	14.7	15.6	13.7	14.5	13.2	11.2	13.2	12.9	14.6	11.7	13.3	8.1
7cc074	33.8	3.3	3.5	3.6	3.6	3.5	3.5	3.7	3.7	3.6	3.7	3.5	3.6	8.0
886eac	33.4	15.5	15.2	15.5	14.2	14.8	12.6	12.2	12.4	12.9	15.7	12.8	11.8	7.7
6404ef	34.2	3.7	3.6	3.6	3.8	3.5	3.4	3.6	3.7	3.8	3.7	3.7	3.6	7.9
a039b8	34.2	10.7	11.4	11.8	11.7	11.2	10.3	11.4	12.3	12.0	11.9	12.4	11.7	8.1
c45090	33.2	3.5	3.6	3.5	3.5	3.4	3.6	3.4	3.7	3.7	3.7	3.7	3.7	8.0
2af66c	33.9	11.8	11.9	11.0	11.7	10.7	10.3	11.1	11.1	10.9	12.7	11.2	11.5	7.8
ab5a7f	33.3	16.2	16.0	15.4	14.7	15.3	12.2	11.5	12.5	12.7	15.2	12.6	11.9	8.1
afd8e1	33.2	15.1	15.7	14.8	15.1	14.7	12.3	12.3	12.4	12.2	16.3	13.5	12.8	8.1
1cf7dd	33.7	14.1	14.4	15.9	15.4	14.8	12.5	12.0	12.1	13.0	16.1	12.6	12.2	7.8
c27515	33.2	15.0	14.9	14.0	15.1	14.3	11.2	11.7	11.7	12.8	16.2	11.9	11.3	7.6
e4683d	32.9	14.3	14.4	15.2	15.3	15.4	11.4	12.6	12.4	12.6	16.1	12.2	11.2	7.9
9a58e1	33.8	14.1	15.2	14.4	14.5	13.5	11.7	12.6	10.9	11.5	16.1	12.1	12.2	7.5
661ba5	33.9	13.9	14.8	13.3	12.4	12.0	10.4	12.1	11.3	11.7	13.2	11.7	11.7	8.1
298ec2	33.2	14.8	14.2	13.3	12.6	13.2	10.8	11.7	11.6	12.3	13.9	11.4	11.4	7.8
71cc1e	33.5	15.3	15.1	16.3	13.5	14.4	11.2	12.3	12.8	12.8	13.8	11.1	11.2	7.5
d30047	33.0	16.1	14.5	14.5	14.1	14.9	11.5	11.8	11.1	12.3	13.7	12.5	11.3	7.6
2c828e	32.6	14.7	14.5	14.3	14.1	13.9	11.5	12.1	12.1	11.9	15.1	10.8	11.8	7.8
fa7653	32.9	15.9	16.4	15.6	16.1	15.8	12.0	12.9	13.1	13.4	17.1	13.4	12.8	7.3
9284fb	33.0	15.2	14.8	14.8	14.3	14.9	10.8	11.2	11.4	12.0	16.0	11.0	11.2	8.0
795bcb	33.4	15.1	15.2	15.3	15.1	14.8	10.6	13.0	12.0	12.0	15.7	12.1	12.2	7.7
8f11a9	34.0	15.1	14.9	16.5	16.4	16.4	12.2	12.8	11.0	13.0	16.2	12.2	12.1	8.0
b64cb3	33.2	3.6	3.5	3.6	3.5	3.6	3.6	3.8	3.7	3.7	3.8	3.6	3.6	7.8
338fad	34.2	3.6	3.6	3.6	3.7	3.5	3.8	3.9	3.8	3.8	3.8	3.8	3.6	7.8
2e6948	33.7	12.6	13.5	13.2	13.0	13.0	11.7	11.8	11.1	12.0	13.1	11.5	11.6	7.8
e5cf30	34.0	15.9	15.8	15.5	16.3	15.1	12.3	12.7	12.2	12.4	15.9	11.6	12.2	8.3
42bb03	33.2	15.3	14.6	15.3	15.7	14.2	11.7	11.1	12.7	12.8	15.3	11.6	11.4	7.5
a40f7b	34.1	14.7	14.7	12.8	13.3	11.7	11.9	11.9	12.3	12.4	13.5	11.7	11.5	7.5
35b503	34.9	15.1	15.4	14.2	13.1	13.3	12.9	12.4	12.5	13.0	13.9	12.8	13.2	7.6
daabb3 abe114	34.6 33.1	14.7 14.4	14.9 15.0	13.1 13.2	12.6 14.0	12.4 13.1	12.0 12.7	11.7 11.5	11.5 12.3	12.0 12.0	15.0 14.2	11.7 12.2	11.8 12.7	7.8 7.4
647e36	34.1	3.5	3.6	3.6	3.7	3.4	3.5	3.7	3.7	3.7	3.9	3.6	3.8	8.2
727d01	33.4	12.3	13.8	12.8	12.6	12.4	12.4	11.6	12.9	12.5	14.4	11.1	10.3	8.3
848385	33.3	14.9	14.9	15.0	14.8	14.3	11.9	11.0	11.2	11.5	15.6	11.7	12.1	7.7
f0b104	33.7	12.3	13.6	12.7	13.5	12.4	12.9	12.3	12.5	13.2	13.1	12.7	13.2	7.7
97bf71	33.7	15.1	15.4	12.7	13.1	13.5	11.0	12.3	11.5	12.2	13.5	12.7	11.3	8.1
615b24	35.7	13.1	13.4	11.2	11.5	10.6	13.9	11.4	13.8	11.8	12.0	12.1	11.0	7.7
a712db	-107.2	-94.8	-77.8	-65.1	-72.2	-62.4	-51.8	-78.6	-75.0	-75.4	-74.5	-72.2	-75.1	-70.0
d5c64b	-87.5	3.8	3.5	3.8	3.9	3.6	3.5	3.8	3.8	3.8	4.3	3.8	3.7	-63.7
19f366	-101.3	-70.8	-76.9	-67.6	-81.0	-86.3	-70.0	-59.2	-74.5	-67.2	-103.7	-65.4	-82.0	-92.5
94a361	-84.6	-66.1	-84.9	-70.5	-71.1	-63.1	-81.1	-66.7	-72.1	-94.8	-88.0	-66.8	-71.7	-84.8
40295a	-93.5	3.6	3.5	3.7	3.5	3.7	3.5	4.0	3.9	3.8	3.8	3.6	3.7	-68.7
fee2a5	-93.3	-63.8	-94.1	-83.9	-75.4	-88.6	-84.7	-70.1	-78.9	-58.6	-107.9	-100.2	-65.4	-89.1
3c9dd9	-106.6	-97.5	-94.6	-71.1	-72.2	-74.5	-73.6	-59.7	-82.9	-91.8	-80.8	-63.7	-65.4	-74.0
sum	2142.5	997.9	1037.5	952.2	962.2	952.3	873.2	852.2	904.3	917.8	1069.5	887.4	872.3	927.9
mean	43.7	20.4	21.2	19.4	19.6	19.4	17.8	17.4	18.5	18.7	21.8	18.1	17.8	18.9
									1					/

TABLE LXXIII: Outcomes of RPS (rps-rpp) stream-lib time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
6a6645	582.8	93.1	93.2	93.1	94.8	97.1	93.2	94.8	92.5	94.6	91.0	93.8	91.8	88.5
91d215	581.8	87.6	85.6	89.4	85.0	93.0	86.8	90.2	85.9	88.5	87.6	90.5	83.4	90.1
c0e238	594.8	87.6	87.5	88.8	88.7	93.6	85.2	90.7	88.5	90.0	89.5	89.0	84.7	88.6
63255d	858.6	93.0	90.2	92.8	94.1	94.5	85.1	92.2	88.9	92.0	89.2	89.5	83.0	87.8
0f2183	601.2	92.4	91.0	92.6	89.9	93.7	90.8	92.9	86.3	88.2	87.0	91.3	85.3	89.8
98b913	647.7	90.3	86.7	93.9	88.4	94.1	92.1	94.3	87.3	88.5	-89.1	90.6	82.8	89.3
43aecb	664.5	91.0	83.4	94.1	89.6	93.2	87.7	92.9	85.6	88.4	87.9	90.8	83.1	88.9
0c33f1	477.9	92.3	85.2	92.7	91.5	94.5	90.6	92.6	86.1	89.8	88.2	92.8	83.4	89.5
0eca17	599.7	92.2	84.7	94.6	92.0	93.9	-91.6	93.6	88.2	90.2	87.5	89.0	84.3	88.6
7433ea	471.2	91.4	85.0	97.6	92.0	92.8	93.5	94.3	86.7	89.9	87.6	91.9	84.1	88.3
8da108	712.9	92.8	90.0	95.1	95.9	94.2	93.1	95.8	89.6	92.6	90.1	92.9	86.5	90.5
7d085a	509.9	4.0	3.9	4.2	3.9	4.2	4.0	4.1	4.2	3.9	4.1	3.9	4.0	90.2
22654f	757.3	88.2	87.1	90.1	88.5	95.3	91.9	90.8	89.5	90.6	88.2	92.5	85.3	90.3
35a0d3	456.3	85.9	84.3	87.6	85.9	91.4	85.8	88.6	85.6	86.8	85.9	88.3	81.2	87.1
b5fc30	600.6	91.6	91.2	95.1	91.3	96.5	92.7	92.7	89.2	91.3	90.6	93.8	87.6	87.1
3ac200	747.9	101.5	103.1	103.7	100.9	105.4	102.8	104.9	100.5	102.1	99.9	103.3	96.7	98.7
f0518e	715.4	106.5	110.1	108.3	103.0	112.9	107.1	110.0	103.9	107.3	104.7	110.8	104.0	105.0
8f31aa	536.4	107.5	112.9	109.0	104.8	113.8	107.1	110.1	105.1	106.4	107.1	109.2	103.7	105.6
573fa7	775.4	91.3	93.6	92.3	87.2	93.7	91.1	92.9	88.7	89.0	87.8	92.4	85.5	85.5
sum	11892.6	1680.2	1648.7	1715.0	1667.6	1747.6	1672.3	1718.3	1632.4	1669.9	1642.9	1696.5	1580.4	1729.5
mean	625.9	88.4	86.8	90.3	87.8	92.0	88.0	90.4	85.9	87.9	86.5	89.3	83.2	91.0







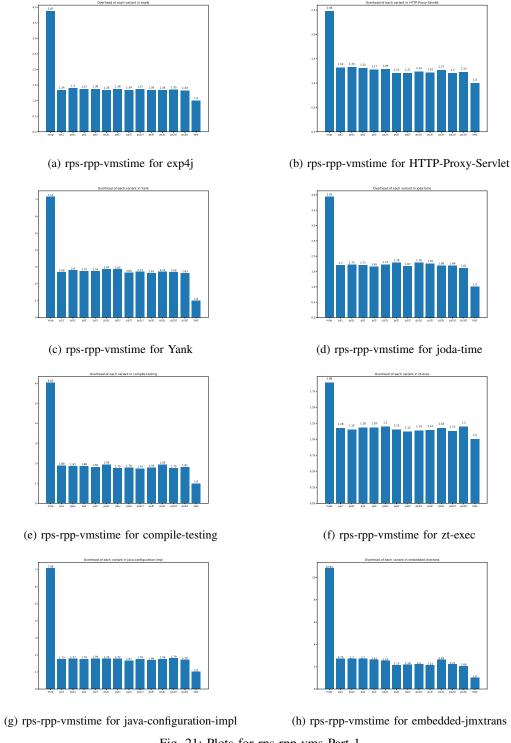
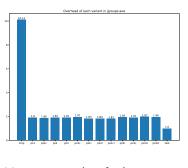
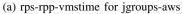
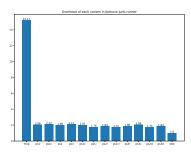


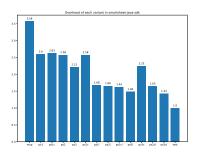
Fig. 21: Plots for rps-rpp-vms Part 1



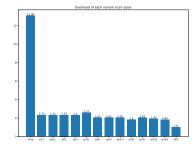




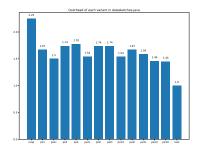
(c) rps-rpp-vmstime for jbehave-junit-runner



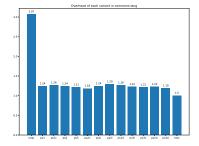
(e) rps-rpp-vmstime for smartsheet-java-sdk



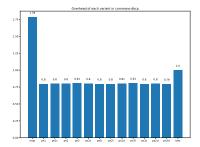
(g) rps-rpp-vmstime for jnr-posix



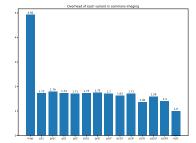
(b) rps-rpp-vmstime for datasketches-java



(d) rps-rpp-vmstime for commons-lang



(f) rps-rpp-vmstime for commons-dbcp



(h) rps-rpp-vmstime for commons-imaging

Fig. 22: Plots for rps-rpp-vms Part 2

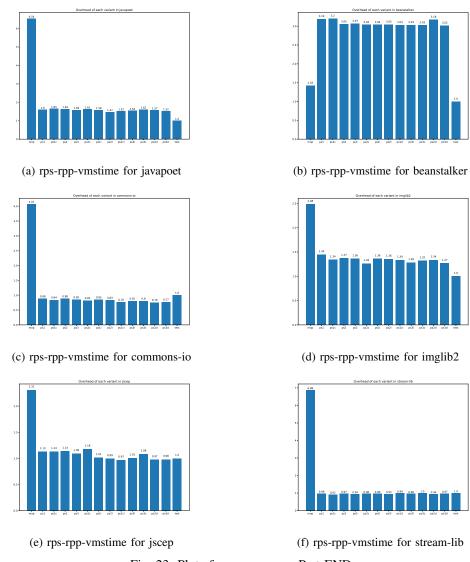


Fig. 23: Plots for rps-rpp-vms Part END

TABLE LXXIV: Sum of RPS+RPP+VMS times (in seconds) across all versions of several projects in this paper. "1": 3rd-party libraries not instrumented. "c": non-impacted classes not instrumented. \$?? explains ps_1 , ps_2 , and ps_3 .

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
P1	1757	607	634	620	625	605	625	610	621	607	606	612	603	453
P2	1617	862	865	854	831	839	787	788	808	793	829	786	803	652
P3	356	133	139	137	136	142	141	132	134	131	134	133	131	49
P4	2081	899	907	904	875	913	944	881	943	931	890	891	851	529
P5	1844	575	566	569	557	595	535	545	531	543	591	535	552	305
P6	386	240	235	242	242	245	236	228	233	233	241	231	245	204
P7	629	154	157	156	158	156	157	148	156	149	156	159	153	88
P8	2174	548	542	543	524	509	432	438	443	429	527	444	415	201
P9	464	87	85	88	87	90	84	83	83	88	87	90	89	45
P10	3785	2815	2526	2933	2993	2600	2925	2930	2592	2812	2671	2461	2443	1683
P11	3524	477	493	462	490	466	408	427	399	435	478	404	426	232
P12	1254	506	517	505	495	483	507	527	515	499	494	500	485	409
P13	964	701	709	695	596	695	452	447	439	400	606	444	385	269
P14	1796	803	806	807	812	810	803	804	811	814	804	806	800	1007
P15	7636	1356	1350	1361	1345	1500	1182	1180	1183	1051	1189	1127	1072	584
P16	1723	601	625	604	598	606	612	596	569	598	476	557	491	350
P17	1133	276	285	283	275	280	273	255	262	266	279	272	262	173
P18	1896	4253	4265	4064	4083	4042	4044	4056	4039	4040	4032	4228	4020	1331
P19	7885	1707	1633	1709	1647	1594	1645	1612	1482	1561	1559	1470	1494	1939
P20	613	357	331	339	336	312	336	335	330	317	326	330	313	247
P21	2142	1046	1048	1055	1012	1093	940	921	898	934	1005	902	909	927
P22	11892	1693	1594	1671	1632	1658	1665	1641	1707	1654	1721	1633	1684	1729
sum	57559	20707	20321	20610	20359	20244	19743	19593	19186	19297	19710	19026	18635	13417
mean	2616	941	923	936	925	920	897	890	872	877	895	864	847	609

TABLE LXXV: Outcomes of RPS (rps-rpp-vms) mean time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
exp4j	35.9	12.4	13.0	12.7	12.8	12.3	12.8	12.4	12.7	12.4	12.4	12.5	12.3	9.3
HTTP-Proxy-Servlet	33.0	17.6	17.7	17.4	17.0	17.1	16.1	16.1	16.5	16.2	16.9	16.0	16.4	13.3
Yank	22.2	8.4	8.7	8.6	8.5	8.9	8.9	8.3	8.4	8.2	8.4	8.3	8.2	3.1
joda-time	42.5	18.4	18.5	18.5	17.9	18.6	19.3	18.0	19.2	19.0	18.2	18.2	17.4	10.8
compile-testing	37.6	11.7	11.6	11.6	11.4	12.1	10.9	11.1	10.8	11.1	12.1	10.9	11.3	6.2
zt-exec	27.6	17.2	16.8	17.3	17.3	17.5	16.9	16.3	16.7	16.7	17.2	16.6	17.5	14.6
java-configuration-impl	27.4	6.7	6.8	6.8	6.9	6.8	6.8	6.4	6.8	6.5	6.8	6.9	6.7	3.9
embedded-jmxtrans	44.4	11.2	11.1	11.1	10.7	10.4	8.8	9.0	9.0	8.8	10.8	9.1	8.5	4.1
jgroups-aws	29.0	5.5	5.3	5.5	5.5	5.6	5.3	5.2	5.2	5.5	5.5	5.7	5.6	2.9
datasketches-java	80.5	59.9	53.8	62.4	63.7	55.3	62.2	62.3	55.2	59.8	56.8	52.4	52.0	35.8
jbehave-junit-runner	71.9	9.8	10.1	9.4	10.0	9.5	8.3	8.7	8.1	8.9	9.8	8.2	8.7	4.7
commons-lang	66.0	26.7	27.2	26.6	26.1	25.5	26.7	27.7	27.1	26.3	26.0	26.4	25.5	21.5
smartsheet-java-sdk	48.2	35.1	35.4	34.8	29.8	34.8	22.6	22.4	22.0	20.0	30.3	22.2	19.3	13.5
commons-dbcp	94.5	42.3	42.4	42.5	42.8	42.6	42.3	42.3	42.7	42.9	42.3	42.4	42.1	53.0
jnr-posix	155.8	27.7	27.6	27.8	27.5	30.6	24.1	24.1	24.1	21.5	24.3	23.0	21.9	11.9
commons-imaging	90.7	31.7	32.9	31.8	31.5	31.9	32.2	31.4	30.0	31.5	25.1	29.3	25.9	18.4
javapoet	59.7	14.6	15.0	14.9	14.5	14.8	14.4	13.4	13.8	14.0	14.7	14.3	13.8	9.1
beanstalker	38.7	86.8	87.1	82.9	83.3	82.5	82.5	82.8	82.4	82.5	82.3	86.3	82.0	27.2
commons-io	415.0	89.9	86.0	90.0	86.7	83.9	86.6	84.9	78.0	82.2	82.1	77.4	78.6	102.1
imglib2	32.3	18.8	17.4	17.9	17.7	16.5	17.7	17.6	17.4	16.7	17.2	17.4	16.5	13.0
jscep	43.7	21.4	21.4	21.5	20.7	22.3	19.2	18.8	18.3	19.1	20.5	18.4	18.6	18.9
stream-lib	625.9	89.1	83.9	88.0	85.9	87.3	87.6	86.4	89.9	87.1	90.6	86.0	88.6	91.0
sum	2122.7	662.6	649.7	660.0	648.1	647.1	632.4	625.9	614.5	616.8	630.2	608.1	597.4	488.5
mean	96.5	30.1	29.5	30.0	29.5	29.4	28.7	28.4	27.9	28.0	28.6	27.6	27.2	22.2

TABLE LXXVI: Outcomes of RPS (rps-rpp-vms) exp4j time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
9b5270	103.1	14.8	15.5	14.9	15.2	14.3	15.5	15.6	15.4	14.4	14.9	15.5	14.7	9.5
abf84e	106.6	14.2	14.4	13.7	14.0	14.8	13.8	13.4	13.9	14.5	13.2	13.6	13.2	9.4
bfaeb2	107.3	13.5	13.9	14.2	13.9	13.3	13.8	12.9	13.5	13.5	13.3	14.3	12.9	9.5
4346b2	107.3	14.1	14.8	13.1	13.9	13.1	14.6	13.6	14.4	14.5	14.1	14.1	14.7	9.3
16f249	112.3	13.3	14.9	14.6	13.2	13.4	14.3	12.9	14.7	13.9	14.4	13.3	12.8	9.6
с339сс	106.9	13.8	15.5	14.4	14.3	14.4	14.1	13.8	14.3	14.1	13.6	14.3	13.0	9.6
224191	105.2	14.5	15.8	13.6	14.2	14.2	14.6	13.7	13.5	14.0	13.9	14.1	14.3	9.6
5b63e1	104.2	13.8	13.9	14.1	13.9	13.2	14.3	13.9	14.3	14.2	13.8	13.8	13.4	9.6
76ffe6	108.3	3.5	3.9	3.6	3.7	3.5	3.8	3.4	3.5	3.4	3.5	3.6	3.6	9.4
f80e8b	104.9	13.0	14.2	14.2	14.1	13.6	13.8	13.7	14.3	13.3	13.7	13.3	13.2	9.6
8ff4f1	103.3	12.9	14.1	13.9	13.6	13.1	13.4	13.2	14.0	13.1	13.7	13.4	13.2	9.7
96c52c	19.6	10.3	11.6	10.4	11.3	11.0	10.3	11.5	10.4	10.7	10.8	10.7	9.9	8.9
9d7620	14.0	13.6	12.9	13.1	13.6	13.8	13.7	13.7	13.1	12.6	13.2	12.9	13.0	8.9
1640d4	13.7	11.9	13.4	13.3	13.1	12.1	12.9	12.4	12.6	12.9	12.8	13.6	12.8	9.1
377eb0	13.7	12.7	13.2	13.4	12.7	12.6	13.9	12.9	13.1	12.5	12.9	12.8	12.7	9.0
b5b575	14.2	13.1	13.9	13.7	12.7	12.4	13.0	13.3	13.8	12.6	12.7	13.5	12.0	9.1
1f4ac3	14.1	13.6	13.2	13.0	13.6	13.0	13.2	13.1	13.0	12.8	12.8	13.6	13.3	8.9
f27e78	14.0	12.5	13.4	13.4	13.0	12.6	13.3	13.4	13.0	12.6	13.3	12.4	13.6	9.0
59849d	14.7	12.5	13.4	13.7	12.9	12.0	13.0	12.9	12.8	12.7	13.0	12.4	13.6	9.0
a97382	15.5	13.6	13.8	12.7	13.9	13.4	13.3	12.9	14.4	12.7	12.9	14.2	13.0	9.1
83de2b	15.2	13.3	13.8	14.1	13.8	14.3	13.7	14.2	14.4	12.7	13.2	13.9	12.8	9.1
70d59f	15.2	12.6	13.0	12.2	13.4	12.1	13.7	12.4	12.1	13.1	13.2	12.3	12.6	9.1
49d187	15.2	12.6		12.2	12.9	12.1	13.6	13.3	13.3		12.3	12.5	11.9	9.1
	15.2		13.1 13.6	13.0	13.3	13.2	13.0	13.8	12.8	13.1 13.4	13.3	13.4	13.4	9.1
219dfc eb7ec0	15.4	13.3	13.0	13.0			12.5	12.1	12.8	13.4		13.4	12.0	9.2
fe0b59	15.4	12.6 12.9	12.9	13.2	12.7	12.6	13.0		12.3		12.6	12.9		
					13.0	13.0		13.0		12.7	12.2		13.3	9.1 9.0
3d3255	15.3	12.8	13.0	13.3	13.3	12.5	14.0	12.6	13.4	12.7	13.7	12.5	12.3	
fb1bd8	15.0	3.6	3.6	3.8	3.8	3.5	3.7	3.6	3.8	3.7	3.5	3.8	3.4	9.2
377f45	15.2	12.4	14.2	12.8	14.0	13.2	13.2	13.3	14.2	12.9	12.7	12.9	13.0	9.2
58938f	15.8	12.8	13.3	13.2	13.9	13.7	13.5	13.1	13.3	13.3	13.6	13.3	12.8	9.2
e329dd	15.4	13.2	13.6	12.3	13.7	12.9	13.1	13.1	13.0	13.1	12.8	13.3	12.3	9.4
9d257d	15.8	12.9	13.9	12.6	13.0	13.4	13.4	13.6	13.1	12.6	12.6	13.5	13.4	9.3
ee8d81	15.4	3.5	3.7	3.6	3.7	3.6	3.7	3.8	3.8	3.6	3.6	3.7	3.8	9.4
403989	15.8	13.1	13.2	13.4	13.6	12.6	13.6	13.1	13.3	13.1	12.8	12.9	12.2	9.1
9da6d6	15.2	13.0	13.3	12.6	13.1	12.3	13.3	12.8	13.3	12.8	12.9	12.5	12.0	9.3
8df7ad	15.6	13.0	13.6	14.2	12.9	12.7	13.7	13.4	13.7	13.3	12.8	13.5	13.7	9.2
115238	15.6	14.0	13.2	13.4	13.5	13.1	13.7	13.1	13.6	13.3	13.3	13.4	12.8	9.1
e977f1	15.6	13.6	13.8	13.2	13.9	12.3	13.6	12.2	14.0	12.9	13.7	13.1	13.5	9.3
eb606b	16.2	13.2	13.4	13.5	14.1	12.7	13.2	13.6	13.8	13.3	12.9	13.4	14.2	9.4
bc9a8a	16.1	13.2	14.9	14.8	13.9	12.8	13.4	13.0	12.9	11.8	13.3	12.5	13.9	9.1
0f86d5	15.5	13.2	14.9	14.6	14.2	12.7	13.6	13.6	13.8	13.4	13.2	13.3	13.5	9.3
fb1103	15.8	3.9	4.0	3.6	3.6	3.7	3.7	3.6	4.0	3.6	3.6	3.5	3.8	9.3
2b82f0	15.9	12.8	13.7	13.2	13.2	12.9	12.8	13.3	13.0	13.1	12.6	12.9	12.9	9.2
e3fbf3	16.0	14.2	14.4	14.2	14.6	13.7	14.9	13.7	13.7	14.2	13.3	14.0	13.7	9.2
c2f7b9	16.3	12.8	13.2	13.7	13.7	12.7	13.0	12.7	13.0	13.4	13.1	12.5	13.3	9.4
1af15f	16.4	13.0	13.5	13.5	14.0	13.1	14.1	13.1	13.5	13.5	13.1	13.2	13.3	9.2
726228	15.7	13.1	12.6	13.4	13.8	13.8	13.5	13.2	13.2	12.9	13.0	12.9	13.5	9.3
12eb15	16.1	13.8	14.6	13.7	13.9	14.1	13.7	13.6	14.5	14.2	14.0	13.8	13.4	9.2
bae815	16.2	14.0	14.4	14.5	14.2	14.7	14.3	13.7	14.0	14.3	13.8	14.2	13.8	9.5
sum	1757.1	607.5	634.8	620.2	625.6	605.1	625.2	610.0	621.4	607.7	606.8	612.4	603.1	453.7
mean	35.9	12.4	13.0	12.7	12.8	12.3	12.8	12.4	12.7	12.4	12.4	12.5	12.3	9.3

TABLE LXXVII: Outcomes of RPS (rps-rpp-vms) HTTP-Proxy-Servlet time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
33e505	15.3	9.2	8.1	9.0	9.3	8.9	6.9	7.2	8.8	8.1	8.4	8.4	8.3	3.0
4b1e27	15.5	8.8	7.7	8.5	7.4	8.4	7.8	7.5	8.0	6.3	7.8	7.3	7.8	3.0
98985ь	15.0	8.2	8.3	9.5	8.7	9.1	7.4	7.1	7.6	7.3	8.0	7.6	7.7	2.9
1d5413	15.6	8.5	9.1	8.1	8.0	8.3	7.1	7.3	8.0	7.3	8.6	7.4	6.6	2.9
cb3a0b	15.0	8.0	8.3	8.5	7.9	8.0	6.3	7.1	7.8	7.3	8.2	6.2	6.7	3.0
fa9d71	15.1	4.0	3.8	4.2	3.8	3.8	3.8	3.8	4.1	3.7	3.8	3.8	3.9	3.0
58e91f	14.8	9.1	9.6	9.2	8.5	8.0	7.0	6.8	8.4	7.3	8.5	8.2	8.8	3.0
8a41cf	15.3	7.9	9.0	7.6	8.2	8.7	6.8	6.8	7.3	7.8	7.9	7.1	7.8	3.0
6925e1	15.7	8.6	8.5	9.9	7.6	8.3	6.9	7.8	7.4	7.8	7.9	7.0	8.1	3.0
5500d9	15.8	7.1	6.9	6.7	6.4	6.8	6.5	6.5	7.1	6.1	5.7	6.1	6.4	3.1
32401f	16.8	8.2	9.6	8.6	7.2	8.7	8.2	8.3	8.0	7.3	9.2	7.9	7.5	2.9
b8405e	16.0	8.8	9.0	8.4	9.0	8.9	7.4	8.2	7.7	7.4	8.1	8.3	8.5	3.0
c93ca1	16.2	8.9	8.9	8.4	9.2	8.9	7.2	7.1	8.0	7.2	7.9	7.5	7.5	2.9
e9cc22	16.7	9.9	9.5	9.6	8.6	9.5	8.8	7.5	9.3	9.0	9.3	8.9	8.0	3.1
1e3a0c	16.7	8.4	9.0	8.7	8.3	8.5	8.4	7.3	7.8	8.3	8.4	7.6	8.4	3.2
60fe09	16.4	9.4	8.4	9.1	8.9	9.3	8.4	7.8	8.4	7.8	8.4	8.7	8.3	3.4
0afcc5	19.0	8.2	9.3	8.7	8.6	9.2	8.9	8.6	8.3	7.9	8.7	8.1	9.5	5.3
72583c	27.0	19.3	18.6	18.9	18.3	19.0	17.6	17.7	18.4	18.3	18.8	17.9	18.2	13.3
417b86	27.2	18.8	19.6	19.3	18.5	19.0	17.5	18.6	17.3	17.8	19.1	17.8	17.9	13.4
c67d99	27.4	18.6	18.7	18.9	18.2	17.9	17.7	17.6	18.0	17.7	18.5	17.8	18.3	13.4
cf2f89	31.9	25.3	25.0	24.1	23.6	23.2	21.8	23.0	23.8	23.1	23.7	21.9	23.3	18.4
5eb89e	33.1	24.3	24.4	24.1	23.3	24.1	22.7	22.9	22.4	23.4	23.6	23.1	23.3	18.4
a69a17	32.8	24.3	24.4	24.1	23.4	23.5	22.7	23.1	22.4	22.1	24.0	22.5	23.3	18.4
bfcd7d	32.4	24.4	24.6	24.4	23.4	23.1	22.9	22.7	23.5	23.3	24.0	23.0	23.5	18.6
db06a4	32.4	4.3	4.3	4.2	3.9	4.1	4.3	4.0	4.3	4.2	4.0	4.2	4.3	18.6
9df9bb	32.4	24.2	24.7	23.7	24.2	22.9	23.1	23.0	22.6	23.3	24.6	22.3	23.3	18.5
2b2d95	32.1	22.8	24.7	22.4		22.9	21.7	21.8	22.5	22.0	21.8	22.3	23.3	18.7
89f716	32.2	25.1	24.8	24.0	21.3 23.6	24.2	23.0	24.1	24.0	23.4	24.2	23.3	23.4	18.5
a58a72	31.7	24.1	25.5	23.7	23.5	24.2	22.8	22.9	22.4	23.4	23.8	22.5	23.4	18.4
1	l	24.1	24.8	23.7	23.8	23.6	22.8	22.9	23.4		23.9	22.8	23.1	18.3
6cabde a5b6ec	31.7 31.7	4.1	4.2	4.2	3.9	4.1	4.0	4.0	4.2	23.3 3.9	4.0	3.8	4.0	18.4
d9b90d	31.7	22.2	!	!	!	l .			!	!	!	!		!!
5caba4	32.8	24.4	21.7 25.1	21.4 24.1	21.5 24.3	20.9 23.8	22.0 23.0	21.4 22.0	21.6 23.6	22.2 22.2	22.1 22.9	21.8 23.3	21.4 23.3	18.4 18.4
		1		23.2					22.0		l	1		
3bcd87	32.2	21.8	22.8	1	21.6	22.1	21.8	21.7	1	21.7	21.5	21.7	22.0	18.4
5ee88f	32.0	24.5	25.0	25.0	24.4	24.2 24.2	22.7	22.6	22.6	23.5	23.0	23.0	23.1	18.4
3050d5 babd76	32.1 32.3	24.6 24.8	23.5 24.7	24.7 23.7	23.9	24.2	22.9 23.4	23.1 22.6	22.7 23.7	23.3 23.0	23.6 23.8	21.7 22.2	23.6 23.2	18.4 18.4
1	l	1	I	l	24.2	l			1	I	l	1		
4defd0	32.8	24.4	24.4	24.4	24.9	24.2	22.9	22.8	22.3	23.0	22.9	22.6	22.4	18.4
22d442	46.6	23.2	24.0	22.8	23.6	22.9	23.2	23.2	23.8	23.5	23.0	24.1	24.3	19.2
238dd2	61.8	27.2	27.9	26.7	26.9	26.0	27.1	26.8	27.8	26.8	26.1	26.1	27.2	19.9
34edf5	63.2	30.7	30.1	30.8	29.1	29.4	25.9	25.7	26.5	26.1	28.5	24.8	25.1	20.7
cec23d	64.1	27.6	27.4	28.1	26.6	27.5	26.7	26.3	27.4	27.4	26.7	27.3	27.6	21.1
fb734f	64.6	31.2	30.1	30.0	29.7	29.8	25.8	24.9	26.4	25.9	28.5	24.6	26.7	21.0
d75353	63.6	30.4	30.6	30.0	28.4	29.9	25.8	26.0	26.6	25.8	28.5	24.9	25.6	21.0
36c6a0	64.8	5.2	4.9	4.8	4.7	4.5	4.5	4.7	5.0	4.7	4.8	4.5	4.8	20.8
a5d4b6	64.0	5.0	4.6	4.8	4.4	4.4	4.5	4.6	4.7	4.3	4.5	4.6	4.7	20.8
c17fb9	63.1	30.6	30.8	30.2	28.1	28.5	25.6	25.8	26.7	25.1	27.9	24.8	25.4	20.9
7ad6d4	64.3	28.4	28.2	27.2	26.7	26.6	26.9	27.8	27.6	27.2	28.6	26.8	28.2	20.8
531709	64.3	31.0	30.3	30.3	30.0	30.0	24.6	25.6	25.8	24.8	29.8	26.0	25.2	20.8
sum	1617.1	862.2	865.7	854.1	831.5	839.8	787.6	788.9	808.1	793.4	829.7	786.2	803.6	652.7
mean	33.0	17.6	17.7	17.4	17.0	17.1	16.1	16.1	16.5	16.2	16.9	16.0	16.4	13.3

TABLE LXXVIII: Outcomes of RPS (rps-rpp-vms) Yank time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
5709ce	21.7	-44.1	-43.9	-44.7	-45.3	-46.4	-46.7	-44.1	-45.5	-44.3	-43.9	-44.0	-44.5	3.0
76e782	21.4	9.3	9.1	8.9	9.6	9.4	8.2	7.6	9.0	7.8	9.3	8.2	9.0	3.0
b26e90	22.6	3.3	3.3	3.3	3.4	3.5	3.9	3.4	3.2	3.2	3.2	3.4	3.4	3.0
afbca2	21.7	6.2	6.8	5.7	6.5	6.6	6.6	6.2	6.1	6.7	7.1	6.6	5.9	2.9
9245c9	21.8	3.2	3.2	3.4	3.2	3.5	3.7	3.1	3.3	3.4	3.3	3.4	3.3	2.9
88a0df	21.3	8.6	9.0	8.4	7.8	9.4	8.1	7.7	6.6	6.6	8.2	6.9	7.4	3.0
cc7c44	21.9	6.9	6.3	6.4	5.5	6.2	7.2	6.7	6.6	5.8	6.7	6.3	5.6	2.9
6fd980	21.7	3.1	3.3	3.3	3.4	3.5	3.5	3.2	3.2	3.3	3.3	3.3	3.3	2.9
24ff95	21.7	6.6	7.3	6.5	7.1	7.2	7.4	6.8	6.4	7.2	7.0	6.9	6.5	2.9
cfb9b8	22.0	5.6	6.9	6.3	6.4	6.9	7.0	6.4	5.8	5.7	5.9	6.3	5.8	3.0
580435	22.0	5.5	6.5	6.2	6.0	6.1	6.7	6.2	7.3	6.1	5.7	5.9	6.7	3.1
6752dc	22.5	3.8	3.8	3.8	3.7	4.1	4.0	3.6	3.8	3.7	3.9	3.8	3.6	2.9
a13462	22.5	5.8	6.7	6.7	6.6	6.4	6.6	6.8	5.9	5.5	6.1	6.2	5.9	2.9
ed0e73	22.7	9.2	9.6	9.9	9.4	10.6	8.8	7.9	9.2	7.9	9.5	8.2	7.6	3.7
1f3139	23.2	4.3	4.4	4.6	4.5	4.9	4.9	4.3	4.4	4.4	4.3	4.8	4.4	3.7
1031dc	25.4	8.4	9.0	9.0	8.3	8.1	8.9	8.1	8.5	9.5	7.6	9.4	8.2	3.8
sum	356.0	133.7	139.2	137.0	136.5	142.8	141.9	132.1	134.8	131.0	134.9	133.5	131.2	49.8
mean	22.2	8.4	8.7	8.6	8.5	8.9	8.9	8.3	8.4	8.2	8.4	8.3	8.2	3.1

TABLE LXXIX: Outcomes of RPS (rps-rpp-vms) joda-time time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
381cca	42.4	18.8	19.9	19.4	19.0	19.8	19.8	18.8	20.2	20.6	20.5	18.6	18.7	10.4
eaaff1	43.0	18.7	18.3	18.8	18.2	19.5	19.4	18.1	19.8	19.6	20.0	18.2	18.2	11.2
ca7bec	42.7	11.3	12.5	11.2	11.2	12.0	11.8	10.6	12.1	11.5	10.8	11.2	11.0	10.7
4d84d8	42.6	18.0	19.1	19.6	18.6	19.1	19.3	17.7	20.3	19.4	17.3	18.2	16.7	10.9
f81758	41.8	18.6	19.4	19.1	18.9	16.7	19.7	19.9	20.0	19.4	17.3	17.8	16.9	10.8
dc4376	42.8	17.1	17.8	18.2	15.8	18.0	18.7	17.5	18.1	17.0	16.2	16.5	15.2	10.7
fb2063	42.3	19.1	19.0	18.0	17.7	18.9	19.8	19.4	19.6	18.8	17.3	18.2	16.9	10.5
262448	41.2	18.3	18.9	17.8	16.0	18.0	20.1	17.3	19.5	16.6	17.1	17.8	15.9	10.5
53922f	42.9	19.1	20.1	18.8	17.0	20.0	19.9	18.1	20.0	17.6	16.6	19.1	16.4	11.0
114403	42.2	18.1	18.2	18.9	17.6	18.8	20.4	18.2	18.7	19.5	19.2	19.2	17.6	10.6
52757e	42.1	18.4	18.7	17.9	18.0	18.8	17.6	17.9	20.5	19.3	18.9	18.4	18.6	10.8
acff94	41.9	11.1	11.4	10.7	10.1	11.5	11.6	10.8	11.6	11.9	11.0	11.3	10.4	10.5
67e9e5	41.8	18.7	18.4	19.3	19.1	18.7	20.1	18.6	19.5	19.7	18.6	18.8	18.6	10.5
1e7b4b	42.5	19.1	18.6	18.7	18.5	20.2	19.4	19.0	19.5	19.7	19.2	18.6	18.6	10.5
b3fdbc	42.3							10.9	I .		!			10.7
66825d	42.4	11.3 18.1	11.5 18.4	11.1 19.0	10.9 17.8	11.7 19.6	11.5 19.0	18.0	12.0 19.3	12.3 19.4	11.1 19.6	11.4 18.8	11.0 18.5	10.4
							21.0							
3ba701	41.7	19.5	20.0	20.0	19.0	18.9		18.4	20.9	20.7	18.2	17.8	17.0	11.0
b90efa	42.2	11.0	11.2	10.9	10.9	11.3	13.3	11.5	11.6	12.0	11.4	11.3	11.3	10.5
e917d7	42.4	19.5	19.0	20.2	18.5	19.6	19.4	17.9	18.9	20.1	18.8	18.5	18.4	10.6
c5c681	42.7	19.3	19.6	20.0	18.6	19.4	21.4	18.5	20.3	20.0	18.5	19.3	17.6	10.3
dfc0d8	43.0	17.6	19.2	19.2	19.4	20.0	19.0	18.4	19.0	20.4	18.9	19.7	18.5	10.3
f871b0	41.7	18.2	18.2	18.4	18.8	18.6	19.2	18.5	20.2	18.8	18.5	18.8	18.2	10.8
a7e167	42.4	11.9	12.2	11.5	11.9	12.5	12.9	10.9	12.6	12.5	12.1	12.2	11.7	11.5
5f98d6	42.2	11.2	11.2	11.4	11.4	11.5	12.2	10.4	11.8	12.3	11.5	12.2	11.4	10.8
a0aead	41.8	20.0	19.4	20.3	19.2	18.3	21.2	19.2	20.1	20.4	18.8	19.0	17.6	11.0
e9b136	42.8	11.8	11.9	12.0	11.5	12.1	11.8	11.3	12.4	12.2	12.3	11.7	11.3	10.9
b72a1f	42.4	18.6	19.2	18.2	19.0	19.4	20.3	18.2	19.9	19.3	19.9	19.2	19.0	11.0
6a4ee6	42.6	19.8	20.1	19.6	19.6	20.4	20.6	18.3	20.1	20.7	20.2	19.2	19.8	10.5
f4a109	42.4	19.5	19.3	18.8	18.4	19.1	20.3	19.9	20.5	20.2	18.6	19.9	18.2	10.8
8429e5	42.9	19.0	18.8	18.8	18.8	19.9	20.6	18.6	20.2	20.8	19.1	17.5	17.3	11.2
124fd3	42.0	11.1	11.7	11.7	11.5	11.5	11.8	10.6	11.8	11.8	11.7	11.2	11.1	11.1
ac9b98	42.0	19.4	20.4	19.1	19.2	18.3	20.3	19.1	20.8	20.0	18.2	18.4	17.0	10.5
adacfb	42.3	11.7	11.6	12.1	11.7	12.1	12.2	11.5	11.9	11.9	11.4	12.0	11.1	10.7
d4a2c3	43.0	17.4	17.2	17.6	16.9	17.6	18.3	16.2	17.4	17.3	17.1	16.5	16.5	11.1
638153	42.5	18.9	18.7	21.0	18.9	19.7	19.0	19.3	20.3	20.5	19.6	19.8	18.2	11.2
5a3cb2	42.1	20.2	19.1	18.9	20.2	19.0	20.5	18.6	21.0	20.3	18.0	19.7	17.7	11.0
e98903	42.9	11.6	12.0	12.3	11.5	11.9	12.4	11.2	12.5	12.2	11.5	12.1	11.4	11.0
b65434	43.4	11.4	11.7	14.4	11.5	11.7	12.6	11.4	12.4	11.7	11.3	11.8	11.0	11.2
8213a1	43.4	18.9	18.8	19.0	18.6	20.1	19.4	18.7	19.6	20.0	18.9	18.9	17.9	11.1
75ab8c	43.1	12.4	12.6	11.6	11.7	12.4	13.0	11.8	12.7	12.2	11.7	12.1	11.4	10.6
ed9d0a	42.8	19.6	19.1	20.6	19.6	19.9	20.4	19.4	20.1	20.3	20.6	19.5	18.9	10.9
e2f678	43.2	20.2	19.6	19.2	20.1	20.7	20.5	19.6	20.9	20.6	20.4	21.3	19.7	11.0
12559d	42.3	30.0	29.6	30.2	30.8	30.8	31.6	29.5	31.9	31.5	31.1	30.1	30.5	10.8
804e5d	43.3	29.8	30.1	29.7	28.2	29.0	30.6	29.2	31.0	31.0	29.5	28.3	28.1	10.8
bdcb70	42.9	28.4	28.7	27.6	25.8	27.4	30.0	27.7	29.2	29.1	27.4	28.2	25.8	10.6
87dcb3	42.0	21.5	21.5	20.8	20.7	22.2	22.3	21.3	22.1	22.8	21.5	20.9	20.9	11.1
52a03c	42.6	28.9	28.2	28.0	26.0	30.1	29.8	28.1	29.3	28.0	28.3	27.4	26.6	10.9
c13ba8	42.3	28.7	28.6	27.6	27.7	27.9	29.5	28.0	29.8	28.8	27.4	28.0	26.1	10.8
872d99	42.3	28.6	29.2	27.7	25.8	28.7	28.7	29.0	29.4	28.9	27.2	27.1	25.8	10.5
sum	2081.0	899.4	907.6	904.8	875.6	913.4	944.3	881.3	943.2	931.8	890.3	891.8	851.7	529.2
mean	42.5	18.4	18.5	18.5	17.9	18.6	19.3	18.0	19.2	19.0	18.2	18.2	17.4	10.8

TABLE LXXX: Outcomes of RPS (rps-rpp-vms) compile-testing time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
								_						
6b89cd	31.8	13.4	13.2	13.1	12.4	13.5	11.9	12.5	12.3	12.3	13.1	12.4	12.4	5.7
fe6edd	30.4	11.8	12.0	10.9	12.1	12.9	10.5	10.8	10.6	11.4	13.0	9.6	10.0	5.7
8e9ce9	30.9	10.1	9.9	10.4	9.9	10.0	10.0	10.6	9.5	10.3	9.8	10.1	9.5	5.6
4006c1	31.3	10.6	11.0	10.5	9.6	10.7	10.8	10.1	10.8	10.7	10.5	9.3	10.2	5.8
e5e4ee	31.4	12.8	12.9	13.2	11.8	13.8	11.7	12.1	11.6	12.1	13.5	11.7	11.7	5.8
4dd5fd	31.3	10.4	9.1	9.8	10.2	10.9	10.1	9.6	10.1	9.7	10.4	9.3	10.4	5.7
0ef7e5	32.1	9.6	9.1	9.5	9.3	10.0	9.3	9.9	9.5	10.6	9.8	9.7	10.2	5.6
cc5a56	31.3	8.9	9.0	7.9	8.2	7.8	7.7	8.0	7.4	8.1	8.2	7.9	8.0	5.8
49c254	33.6	11.0	10.3	9.8	10.1	10.8	10.2	10.2	10.4	10.2	10.8	10.3	11.0	5.7
ebbc46	31.8	11.0	11.6	11.6	11.1	11.9	11.7	12.3	10.8	11.6	12.0	11.4	12.0	6.1
762247	36.9	13.9	13.5	13.8	13.5	14.5	12.0	11.0	11.1	12.6	14.5	12.3	12.5	6.2
99aed6	38.3	12.9	12.1	13.3	13.2	12.4	11.4	11.0	10.7	11.2	13.6	10.3	11.3	5.9
2678c3	38.8	10.7	10.7	11.4	10.8	11.9	10.7	11.4	10.9	10.5	11.7	10.9	11.6	6.3
acf6ae	37.9	12.1	10.8	11.3	11.2	11.7	10.9	12.2	11.2	11.1	12.2	11.1	11.3	6.1
7d31b5	38.8	13.5	13.2	14.0	13.1	13.0	11.4	12.1	12.2	11.6	13.6	12.9	12.3	6.3
3f1f22	37.9	12.1	11.0	10.6	11.0	11.7	11.2	11.5	10.9	11.4	11.5	11.4	11.1	6.5
0f4e55	37.4	5.4	5.2	5.1	4.9	5.6	5.2	5.1	5.3	5.7	5.3	5.4	5.3	6.1
20f6d4	39.8	13.0	13.0	12.9	12.7	13.8	10.9	11.5	11.3	11.2	13.5	11.0	11.4	6.2
6b3290	37.7	14.7	13.8	13.0	13.8	13.4	11.7	12.9	11.8	13.0	14.9	12.5	12.5	6.2
9ec074	38.9	14.4	12.8	13.8	13.4	14.6	11.9	12.7	12.3	12.6	14.3	12.9	12.3	6.2
38f6d0	38.0	14.1	13.4	12.5	12.8	14.4	11.9	13.0	13.0	12.5	14.6	11.7	12.0	6.2
ac382a	38.7	5.3	5.5	5.3	5.5	5.4	5.0	5.3	5.4	5.3	5.4	5.0	5.4	6.0
dd93c0	39.4	5.2	5.2	5.0	5.2	5.4	5.1	5.1	5.4	5.4	5.6	5.2	5.6	6.3
d34c5c	37.9	13.5	12.7	13.8	14.3	14.0	11.9	11.3	10.7	11.7	14.5	11.5	11.8	6.3
f04802	38.0	12.9	13.3	12.9	10.1	13.3	12.2	11.7	11.0	10.5	11.1	11.5	11.0	6.3
b3d432	38.5	15.1	13.8	14.8	11.9	15.1	12.4	12.4	12.6	11.9	11.7	12.4	11.6	6.1
e95757	38.4	7.2	7.4	7.4	7.5	8.3	7.3	7.9	7.7	7.8	8.0	7.6	7.8	6.1
b4eaa9	39.3	14.7	15.4	15.3	12.4	15.2	14.1	13.0	13.5	12.5	13.7	13.1	13.7	6.5
ffc732	38.7	7.4	7.6	7.7	7.2	8.1	7.6	8.0	7.5	8.0	8.4	7.6	7.8	6.4
b867b4	39.5	7.6	7.6	7.5	7.7	7.7	7.7	7.7	7.3	7.5	7.8	7.6	8.0	6.3
90f7d6	38.1	7.9	7.6	8.3	7.9	8.0	8.0	8.2	8.1	8.3	8.7	8.1	8.0	6.6
2a47a5	38.8	8.1	8.1	7.8	7.7	8.4	7.9	8.1	8.2	8.2	9.0	8.6	8.5	6.3
cd2c0a	39.0	14.2	14.4	15.4	14.2	16.1	12.9	12.9	12.7	13.0	16.1	12.3	13.8	6.6
80a9ee	40.3	13.5	14.6	15.4	15.3	15.3	12.6	12.7	13.5	13.6	16.0	13.1	13.2	6.4
95e749	39.8	13.3	12.9	13.3	13.8	14.1	13.0	13.7	13.4	11.5	13.5	13.1	12.6	6.4
a959de	40.8	15.9	15.7	15.4	16.5	15.6	13.5	14.2	13.7	14.3	16.1	13.7	14.9	7.1
1f8424	39.7	15.0	15.0	15.4	15.2	15.6	12.7	13.7	13.7	13.5	16.6	12.7	13.8	6.6
cb6486	41.0	12.4	13.0	12.2	13.6	13.7	12.6	13.2	12.5	13.6	13.4	12.8	13.3	6.4
c46b1b	39.7	13.3	13.6	12.8	13.0	14.0	13.2	14.2	13.9	14.1	13.9	13.3	14.8	6.5
bcad50	40.1	13.6	12.1	12.3	13.3	13.8	13.5	13.5	12.0	12.8	13.9	13.0	13.5	6.1
620d23	39.6	12.7	13.5	12.9	12.9	13.7	13.0	13.4	12.0	12.8	13.9	12.3	14.4	6.3
626025	41.5	13.9	13.3	13.1	13.2	13.6	13.0	13.7	12.1	13.6	13.9	13.3	13.5	6.7
3b9095	39.6	12.7	12.9	12.2	12.6	13.5	14.0	13.7	12.7	13.6	13.9	13.8	13.3	6.1
fd1e44	40.5	15.1	16.0	15.2	15.2	16.7	13.1	12.9	13.3	13.0	15.8	13.6	14.1	6.6
1d1e44	40.3	7.8	7.9	7.6	7.9	8.1	7.5	7.9	7.4	8.2	8.1	7.7	8.3	6.6
b748f6	40.4	13.1	12.9	13.2	12.9	14.1	13.3	12.6	12.5	12.3	14.0	12.9	14.3	6.5
115014	40.1	l	13.7	14.3	1	13.6	14.3	12.0	13.5	14.3	15.0	14.2	13.6	6.5
	39.7	13.6 15.4	15.7	14.3	13.6	16.4	13.0		13.5	13.8	15.0	13.2	13.6	6.7
5dc482				!	14.2			13.3						!
1148d3	40.6	8.3	8.5	8.4	8.2	8.9	8.0	7.9	8.3	8.1	8.2	8.1	8.9	6.8
sum	1844.4	575.1	566.8	569.2	557.9	595.1	535.8	545.2	531.3	543.8	591.4	535.4	552.8	305.7
mean	37.6	11.7	11.6	11.6	11.4	12.1	10.9	11.1	10.8	11.1	12.1	10.9	11.3	6.2

TABLE LXXXI: Outcomes of RPS (rps-rpp-vms) zt-exec time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
c58216	26.0	17.2	17.7	17.4	17.9	18.1	18.1	17.7	17.7	17.6	17.6	17.8	19.6	13.1
c5b972	25.5	17.4	16.7	17.4	18.3	18.0	17.6	18.0	16.7	17.3	17.1	16.7	19.1	13.2
e8609f	25.4	3.7	3.6	3.7	4.0	3.7	3.8	3.6	3.7	3.7	3.8	3.9	3.9	13.1
d964c0	25.9	17.2	17.4	18.6	17.6	19.1	17.6	16.4	17.6	17.9	17.1	17.9	18.0	13.3
d6766d	28.0	20.5	19.8	20.1	20.3	19.9	19.9	18.7	18.6	18.8	20.1	18.7	20.3	15.3
46c33c	28.0	19.8	20.1	20.1	20.8	20.5	19.7	18.8	18.6	18.8	20.6	19.3	20.6	14.9
fa782b	28.5	20.2	19.1	20.4	19.7	20.2	19.1	18.5	20.3	19.2	19.2	18.3	20.1	15.8
28ceb1	28.5	20.5	19.9	19.8	20.2	19.5	19.7	18.9	19.5	19.5	19.5	19.7	20.6	15.3
eebd89	28.6	20.2	19.5	20.2	20.1	20.3	19.4	18.6	19.5	19.8	19.9	18.7	20.1	15.2
7a7a4b	28.5	19.6	20.2	20.1	20.8	20.4	19.8	18.5	19.3	19.0	20.4	18.8	19.3	15.2
8ff8fa	28.3	20.6	19.6	20.8	20.4	21.6	19.5	19.5	19.6	19.7	20.8	19.0	19.9	15.3
a47b4c	28.6	19.3	19.5	19.8	19.2	19.9	19.4	19.1	19.2	18.8	20.9	19.9	19.7	15.2
0a5f14	28.0	3.8	3.7	3.6	3.9	3.8	3.9	3.6	3.8	3.8	3.8	3.7	4.3	15.0
6bdce0	28.2	20.8	19.1	20.4	19.5	20.3	18.8	18.8	19.2	19.8	20.4	19.4	19.9	15.1
sum	386.0	240.8	235.8	242.3	242.7	245.2	236.1	228.9	233.2	233.8	241.2	231.9	245.2	204.9
mean	27.6	17.2	16.8	17.3	17.3	17.5	16.9	16.3	16.7	16.7	17.2	16.6	17.5	14.6

TABLE LXXXII: Outcomes of RPS (rps-rpp-vms) java-configuration-impl time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
cd27a2	19.6	3.6	4.3	4.2	4.0	4.0	3.8	3.7	3.8	3.7	4.0	4.0	3.5	3.2
cd1a4d	20.1	7.7	7.9	7.7	7.5	8.5	8.1	7.4	8.6	7.6	8.3	7.9	7.7	3.3
26bb9f	20.6	7.2	6.8	6.4	6.9	6.7	6.1	6.7	6.9	6.4	7.4	8.1	6.6	3.3
becbb1	20.3	7.0	6.6	6.7	7.7	6.5	7.3	6.5	6.7	6.6	6.7	7.0	6.5	3.3
e61648	21.2	5.1	5.7	4.8	5.4	5.1	5.3	5.0	5.0	5.0	5.5	5.3	5.2	3.3
97a683	21.0	7.3	6.9	7.8	7.0	6.9	7.4	7.0	6.9	6.2	7.0	7.0	6.6	3.5
08363d	21.0	7.6	7.0	6.9	7.6	7.3	7.2	6.7	7.3	7.0	7.9	7.2	6.8	3.6
cee296	20.9	4.0	4.2	4.1	4.1	4.2	4.1	3.9	4.2	4.2	4.0	4.2	4.0	3.4
5ba64c	21.0	6.4	7.8	7.0	7.1	7.0	6.6	6.4	6.6	6.8	6.7	6.8	7.4	3.3
67efdf	21.3	6.5	6.8	7.3	6.9	7.1	6.8	6.5	7.0	6.5	6.7	6.8	7.7	3.4
866f72	21.2	7.9	7.0	7.4	7.2	7.3	7.4	7.0	7.1	6.7	7.3	7.1	7.9	3.5
00a783	21.2	6.5	7.1	7.2	7.6	7.1	7.3	6.8	7.0	7.2	7.2	7.1	7.5	3.5
b99f46	22.7	7.8	6.9	7.6	7.6	7.5	7.6	6.9	7.0	7.1	7.6	7.3	7.0	3.9
470fdf	34.6	5.3	6.4	6.1	6.2	5.5	6.0	5.3	6.2	6.0	5.8	5.7	5.8	4.4
26cd1e	35.0	7.6	8.8	7.8	8.7	7.8	8.3	7.9	7.9	8.1	7.4	9.2	8.3	4.3
459f7b	35.0	8.8	8.6	8.4	8.5	8.5	8.6	7.9	8.0	8.1	8.3	8.2	8.1	4.6
ef6525	33.2	8.0	8.7	8.6	7.6	7.8	8.6	8.1	8.6	8.1	7.5	8.4	7.9	4.3
b68766	34.5	4.6	4.8	4.7	5.0	5.0	4.8	4.4	4.6	4.6	4.7	4.9	4.5	4.4
88ada8	33.6	8.0	8.8	8.1	8.7	8.9	8.2	7.8	8.5	7.0	7.7	8.6	7.9	4.3
bd8bf4	36.6	6.0	5.6	6.4	5.3	6.2	6.0	5.8	6.4	6.5	6.5	6.2	5.3	4.4
39fe0a	36.3	7.9	7.5	8.2	8.3	8.9	8.4	7.8	8.5	7.4	8.6	9.0	8.1	4.6
7d7c4e	37.8	9.0	8.0	8.6	8.8	8.3	8.6	8.0	9.0	7.9	8.6	8.2	7.9	4.3
ed86d0	40.3	4.6	4.7	4.7	5.0	4.8	4.9	4.6	4.7	4.8	4.9	5.0	4.6	4.7
sum	629.2	154.2	157.0	156.4	158.7	156.8	157.5	148.1	156.6	149.5	156.3	159.4	153.0	88.9
mean	27.4	6.7	6.8	6.8	6.9	6.8	6.8	6.4	6.8	6.5	6.8	6.9	6.7	3.9

TABLE LXXXIII: Outcomes of RPS (rps-rpp-vms) embedded-jmxtrans time

	1	1 1					11	21	1 1 1	21	1 2	2.1	2.1	
sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
1b2955	27.0	11.5	11.3	10.9	10.6	10.3	9.8	9.8	9.3	8.9	10.8	9.3	8.6	2.9
ef88f3	27.2	10.0	9.2	8.7	9.1	9.1	7.3	7.7	7.6	7.4	9.1	7.6	6.6	3.0
64e65a	26.6	9.6	10.5	10.6	8.9	9.0	9.5	9.6	10.3	8.6	8.9	9.1	8.5	3.2
51e075	26.9	4.0	4.0	4.1	3.9	3.8	3.8	3.9	4.0	4.0	3.9	3.9	3.9	3.0
5bffe4	27.4	9.7	8.8	8.9	7.5	8.4	7.7	7.4	8.8	7.2	6.8	7.3	7.8	3.3
59e1a4	27.0	9.0	9.5	9.3	8.4	8.9	7.9	8.5	8.6	8.2	9.1	8.7	7.8	2.9
bf18d2	27.3	8.9	9.5	9.8	9.5	9.3	7.2	8.8	7.2	7.3	8.7	7.4	7.5	3.0
62c71b	46.3	8.3	8.0	8.3	8.6	8.0	7.9	7.6	9.0	8.1	8.3	7.8	7.3	3.8
e4a4c2	45.0	11.1	11.0	11.5	10.6	10.4	7.3	7.8	8.2	8.6	11.2	7.6	8.4	3.3
345190	45.9	11.6	11.4	10.7	12.1	9.9	8.1	8.8	8.0	8.9	10.2	7.9	7.3	3.3
a672b6	45.0	11.8	10.4	10.9	11.6	10.4	8.6	8.0	8.6	8.5	10.7	8.7	8.4	3.4
4f713f	45.8	11.3	11.5	10.8	12.0	10.1	7.7	7.9	8.1	7.8	10.8	9.0	7.4	3.2
78bb73	45.4	11.8	11.5	11.6	11.9	10.6	8.4	8.8	8.6	7.4	10.8	8.3	8.6	3.2
4bea3b	45.0	11.4	11.6	11.6	10.2	10.3	7.7	7.8	8.1	8.1	12.0	8.2	8.6	3.3
1f8b32	45.4	10.7	10.6	11.5	10.3	10.1	7.6	7.8	8.4	7.8	11.0	8.1	6.9	3.4
616624	45.2	12.1	11.2	10.6	10.2	10.6	9.0	7.6	8.8	7.9	10.2	8.2	7.0	3.3
656e0c	45.2	10.3	11.7	10.1	9.9	9.3	7.6	8.6	8.0	7.8	11.1	8.1	8.4	3.3
d5a3ad	45.1	10.8	10.7	11.0	10.3	10.6	8.1	8.9	8.8	8.1	10.2	7.8	7.1	3.2
dc83d7	45.8	4.0	4.1	4.1	4.0	3.9	3.8	4.1	3.9	4.0	4.0	4.2	3.8	3.4
865ea1	44.3	11.3	11.5	12.2	10.7	10.3	8.3	8.7	7.8	7.8	10.7	8.6	7.4	3.2
6e849a	47.0	10.8	10.6	11.5	11.2	9.6	8.6	8.0	8.3	7.9	11.1	8.7	7.5	3.2
8f848b	45.9	11.5	11.2	11.5	10.0	10.1	8.2	8.5	9.0	7.9	11.4	8.3	8.4	3.1
e373b6	45.4	9.0	9.0	9.0	9.5	8.2	8.4	9.3	9.3	7.7	8.9	9.5	8.4	3.3
531f04	46.1	12.2	10.8	10.7	10.6	11.2	8.5	8.5	8.7	8.0	11.5	9.7	9.0	3.2
4d8cc3	44.8	10.7	11.9	10.9	11.2	9.7	8.0	7.9	7.9	8.5	11.7	9.4	8.7	3.4
6d7f22	45.7	11.0	11.9	10.9	11.2	11.2	7.8	8.7	9.0	8.2	11.6	8.4	8.0	3.4
ala71d	45.1	3.9	4.2	4.0	4.2	3.9	4.4	4.1	4.1	3.8	4.3	4.2	3.9	3.4
d7f390	44.4	11.4	10.9	11.5	11.0	10.2	8.5	8.6	8.5	8.6	10.7	8.2	8.0	3.5
7afbce	45.1	4.6	4.2	4.3	4.3	4.0	3.7	4.2	4.2	4.0	4.0	4.0	4.2	3.4
3474fc	48.2	8.0	9.2	7.9	8.5	8.8	9.0	8.4	9.5	8.3	8.7	9.1	8.2	3.3
0ad3b2	48.2	9.5	10.1	9.2	9.4	9.8	8.8	8.6	8.6	9.1	8.9	9.2	9.6	3.7
12d9ed	47.9	12.0	12.0	11.7	10.8	11.4	8.6	9.4	9.5	8.4	12.8	8.4	8.5	3.6
8580ef	48.0	10.9	11.3	11.6	10.9	10.3	9.6	8.7	8.1	8.4	12.0	8.7	7.7	3.6
dc18de	49.6	10.6	10.4	9.6	9.8	9.2	9.4	9.4	9.7	9.7	9.9	9.8	9.5	3.6
ee17a6	48.0	11.8	11.7	11.7	11.5	10.4	8.3	8.6	7.9	8.9	10.9	8.4	8.2	3.6
a54258	47.7	12.2	11.2	11.8	11.5	10.8	7.7	8.3	8.6	8.5	10.7	9.3	7.6	3.5
89df2c	48.4	11.3	11.9	10.9	11.7	10.8	8.5	8.9	9.0	8.2	11.7	9.0	7.7	3.8
b81845	48.7	11.6	11.6	12.3	10.8	10.5	8.6	9.3	8.1	8.8	11.1	8.4	8.2	3.4
53a984	48.8	11.7	11.2	11.2	11.9	10.7	8.9	8.7	9.0	8.5	10.8	8.2	8.2	3.7
11c7de 1ed452	47.6 47.7	11.9 12.3	11.2 11.5	11.0 11.6	11.6	10.4 11.8	8.6 8.5	7.8 9.5	8.0 9.0	8.4	11.6 10.8	8.4 9.8	7.9 8.6	3.6 3.5
48412f	48.2	11.8	12.8	12.0	11.1 11.8	11.8	8.4	9.5 8.4	8.7	8.6 8.7	10.8	9.8	9.0	3.5
bfd614	49.0	11.8	11.0	12.0	10.7	11.4	9.7	8.7	8.6	9.3	10.8	8.6	8.8	3.7
bfb812	48.4	11.7	10.6	11.8	10.7	11.0	9.7	9.4	10.0	9.3	10.8	10.7	9.4	3.6
93e572	48.4	13.5	12.0	13.7	11.8	11.1	9.8	8.7	9.7	8.5	12.1	9.2	8.4	3.7
fb570a	48.5	4.4	4.4	4.6	4.4	4.2	4.3	4.5	4.3	4.4	4.6	4.4	4.4	3.7
f11867	50.3	20.7	20.4	20.9	18.5	19.3	15.8	16.4	16.1	16.7	20.1	16.7	16.1	10.2
fc4ca5	50.3	21.4	19.7	21.0	19.6	19.3	15.7	16.5	15.9	15.4	19.4	16.7	14.7	10.2
4f1ce2	64.6	35.5	35.1	35.0	34.0	35.6	35.5	34.9	35.7	36.0	35.0	35.5	30.9	25.2
sum	2174.5	548.5	542.1	543.4	524.6	509.3	432.6	438.9	443.0	429.5	527.9	444.1	415.1	201.1
mean	44.4	11.2	11.1	11.1	10.7	10.4	8.8	9.0	9.0	8.8	10.8	9.1	8.5	4.1
IIICan		11.2	11.1	11.1	10.7	10.4	0.0	9.0	7.0	0.0	10.0	7.1	0.5	7.1

TABLE LXXXIV: Outcomes of RPS (rps-rpp-vms) jgroups-aws time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
e7896f	1.8	-3.2	-3.2	-3.2	-3.5	-3.3	-3.1	-3.2	-3.0	-3.3	-3.3	-3.3	-3.2	1.8
4b32fa	2.0	3.7	3.7	3.8	3.8	3.9	3.7	3.8	3.6	4.4	3.6	3.7	3.7	1.9
bcf770	1.9	-3.1	-3.2	-3.2	-3.2	-3.1	-3.1	-3.1	-3.0	-3.2	-3.1	-3.3	-3.2	1.9
0c4990	2.0	8.1	7.7	8.0	7.8	8.0	7.8	7.7	8.3	7.8	7.9	8.6	8.0	1.8
c5e9f0	1.9	6.1	5.7	5.8	6.0	6.1	5.5	5.8	5.7	6.0	5.7	5.9	5.8	1.9
83fa1c	25.9	5.6	5.6	5.0	5.1	4.7	5.1	4.2	4.5	5.9	5.4	5.7	5.7	3.4
83da98	25.2	3.8	3.6	3.7	3.8	3.7	3.7	3.7	3.6	3.7	3.8	3.7	3.7	2.9
f70cbf	29.0	4.5	5.4	5.2	5.0	5.6	5.2	4.5	4.8	5.5	4.9	4.8	5.2	3.2
1091a4	29.7	8.2	8.2	8.2	8.0	8.5	7.7	7.5	7.5	8.0	8.6	8.3	8.1	3.0
b3f243	26.3	4.7	5.2	4.3	5.2	4.7	4.5	4.5	5.1	5.1	4.7	4.7	4.9	3.0
741c3d	53.8	5.6	4.8	5.0	6.2	5.7	5.3	5.5	4.6	5.1	5.7	5.5	6.1	3.6
2ac9b9	52.5	3.8	3.9	4.4	4.1	4.2	3.7	4.1	3.9	3.9	3.9	4.0	4.0	3.5
480443	53.6	4.2	3.8	4.2	4.0	4.1	3.9	3.9	4.1	3.9	3.8	4.1	4.2	3.4
771d8f	52.4	8.0	7.0	9.0	7.4	8.0	7.6	7.4	7.3	8.6	8.4	8.2	8.9	3.5
1388b8	52.6	7.0	6.6	7.5	7.2	8.0	7.1	8.0	7.1	7.1	7.7	8.2	8.0	3.6
a90a3e	53.8	7.7	7.9	7.4	7.4	8.6	7.1	6.9	6.8	7.2	7.4	8.3	7.1	3.5
sum	464.5	87.3	85.5	88.0	87.7	90.2	84.1	83.8	83.0	88.7	87.8	90.5	89.8	45.9
mean	29.0	5.5	5.3	5.5	5.5	5.6	5.3	5.2	5.2	5.5	5.5	5.7	5.6	2.9

TABLE LXXXV: Outcomes of RPS (rps-rpp-vms) datasketches-java time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
e2fb43	-89.4	-85.7	-60.0	-87.0	-89.6	-64.0	-86.6	-88.7	-61.6	-82.3	-63.1	-59.1	-59.2	-41.9
1ba334	-88.1	-84.2	-59.5	-90.0	-88.3	-64.0	-86.2	-88.7	-63.0	-82.0	-63.5	-60.3	-58.1	-43.2
1436f3	-86.6	-84.7	-71.1	-87.9	-87.6	-72.3	-88.1	-88.7	-73.7	-85.6	-74.8	-67.5	-69.1	-42.4
ad19fb	85.2	60.0	61.9	62.2	61.8	63.7	62.3	63.6	61.7	60.8	64.5	57.4	59.6	42.1
843c40	87.4	31.8	36.2	32.7	34.4	33.5	35.1	32.6	34.4	31.3	35.3	32.1	32.6	43.5
4a8281	-88.2	-86.1	-72.4	-87.4	-88.7	-74.3	-87.5	-87.6	-73.3	-83.5	-74.7	-69.2	-67.3	-41.5
856926	-87.8	-85.7	-61.4	-86.1	-89.9	-64.9	-88.2	-89.1	-63.9	-84.8	-65.5	-59.9	-61.2	-42.9
1cc496	-88.7	-84.1	-60.7	-85.4	-88.4	-62.4	-88.5	-86.6	-62.8	-83.2	-63.8	-60.3	-57.7	-43.1
4ede21	-89.9	-82.8	-60.0	-88.0	-87.1	-63.4	-88.8	-88.8	-63.5	-81.2	-64.4	-59.7	-60.0	-41.9
851ec9	-89.8	-84.8	-72.8	-87.9	-89.0	-73.6	-88.9	-90.2	-75.3	-86.3	-75.9	-68.5	-70.8	-42.8
fcc7e1	-87.7	-84.0	-73.6	-88.2	-87.9	-72.2	-87.5	-88.3	-71.7	-82.7	-75.8	-70.3	-68.8	-41.2
75f72c	-85.2	-85.3	-70.8	-87.1	-87.0	-72.3	-87.1	-87.6	-70.2	-82.6	-72.5	-69.0	-66.4	-42.4
b27fff	83.9	81.2	72.7	87.0	86.3	71.8	87.4	87.8	71.6	83.3	74.7	67.5	67.9	39.6
23ae68	84.8	83.0	67.6	86.0	88.5	71.4	84.7	88.0	69.8	82.9	72.4	66.9	67.0	39.8
20a6b0	85.2	83.3	71.2	87.3	86.4	71.5	87.4	88.3	71.9	80.9	74.0	68.6	67.2	40.7
08e0e2	86.5	82.2	58.3	87.3	84.9	60.3	84.3	83.4	62.3	83.8	62.5	57.1	57.1	39.6
f3a611	89.7	81.3	60.1	84.6	85.6	61.0	83.7	84.5	62.7	83.4	62.9	58.0	56.7	40.8
1c524d	86.1	80.6	68.2	87.9	84.9	70.9	85.1	83.7	70.6	82.2	73.6	69.7	67.3	40.3
562887	85.3	33.6	32.9	33.3	34.4	35.0	34.6	34.3	32.8	32.7	36.4	32.3	31.9	40.9
f0d5e1	-75.6	-51.1	-50.1	-53.0	-51.7	-52.0	-52.7	-52.6	-50.9	-48.3	-52.6	-48.4	-48.6	-31.8
cf919f	-75.5	35.2	33.1	35.1	34.8	34.5	33.7	34.4	34.2	32.1	34.2	32.7	32.5	-31.8
70f181	74.2	50.2	48.8	50.8	79.3	49.7	50.6	51.0	50.3	70.8	53.3	47.2	47.9	31.5
e2d8f0	75.8	51.3	50.0	52.6	50.7	52.0	51.3	51.9	49.7	47.5	52.6	48.7	47.1	31.5
91b26c	75.9	51.6	51.1	53.8	51.1	52.4	52.8	52.2	52.0	49.5	54.1	50.6	48.3	30.6
92cc12	-76.0	-50.8	-49.6	-51.7	-52.3	-51.4	-51.4	-51.8	-51.7	-47.9	-53.3	-49.0	-48.6	-31.3
3ca1be	77.2	49.6	49.9	51.0	51.2	50.6	51.0	51.0	51.3	49.3	50.9	48.4	46.5	30.7
55e820	76.0	50.7	50.2	52.4	51.9	51.6	50.6	52.5	50.8	47.9	53.1	49.1	48.2	31.0
11672b	76.2	51.4	49.3	51.5	52.9	52.3	51.6	51.2	51.6	48.8	53.5	48.5	47.8	31.8
83c11b	75.3	50.9	51.6	52.5	52.9	52.9	52.8	52.5	52.7	49.5	54.5	50.7	50.8	31.6
d93a6b	76.2	50.2	51.3	52.6	53.2	52.2	52.4	51.9	52.9	48.1	52.9	49.9	48.5	30.9
5aba00	-74.4	-48.3	-49.3	-50.6	-51.1	-51.6	-51.9	-51.0	-50.8	-47.7	-52.4	-48.2	-48.3	-31.3
9622f1	-73.8	31.2	33.8	34.7	34.0	34.5	34.7	33.1	36.0	31.9	36.7	33.6	33.0	-31.9
ac0aa6	78.7	49.8	50.5	52.0	52.5	51.3	50.7	51.4	52.0	48.9	52.2	49.9	48.9	31.6
0eda5e	74.7	49.6	50.5	51.9	50.8	52.7	54.2	52.1	51.8	48.9	52.9	49.5	49.0	31.5
6d9e9e	78.4	47.9	50.0	52.0	79.6	52.5	51.7	52.0	51.9	73.8	58.3	48.6	54.0	31.6
42eb24	76.0	51.5	51.8	55.1	53.5	52.5	51.9	53.3	53.7	49.4	55.8	52.3	49.6	32.1
063d1a	74.3	50.7	49.2	52.8	51.6	51.7	52.7	52.4	53.0	48.1	-53.3	50.0	48.7	32.1
3a6f18	76.3	51.8	52.9	55.7	54.8	54.3	55.2	55.0	54.2	51.1	56.0	53.8	50.6	33.5
ce9bed	76.5	50.0	50.9	53.6	52.3	53.3	53.8	53.9	54.0	50.1	55.9	50.4	50.6	32.0
045e38	75.6	54.1	55.9	56.3	57.8	57.5	56.3	55.6	56.2	54.4	59.5	55.1	54.4	32.1
85a09d	78.1	49.0	49.9	51.3	51.9	50.0	50.7	51.4	51.0	48.0	52.6	48.6	48.0	32.2
4a82e4	75.3	33.2	33.6	34.8	35.1	35.4	34.6	32.8	34.8	31.6	36.1	32.2	33.5	32.2
e5081d	78.7	34.1	33.9	34.6	35.4	34.7	34.6	34.3	35.0	29.8	33.8	32.3	32.4	32.6
499a44	76.2	50.8	50.0	53.4	53.7	52.5	51.4	52.9	52.8	50.3	54.8	49.9	49.7	31.9
320a3d	74.3	32.8	32.5	35.2	34.4	35.0	34.4	34.2	33.7	30.8	36.1	31.8	31.3	31.6
d6ce71	76.4	50.6	53.5	52.6	53.1	53.1	54.0	53.6	52.9	49.4	55.8	50.3	51.5	34.5
28ec92	78.3	72.7	51.6	76.5	78.7	53.7	79.2	77.5	53.5	73.0	53.4	48.2	49.0	33.0
sum	3785.2	2815.7	2526.3	2933.5	2993.2	2600.2	2925.1	2930.1	2592.3	2812.4	2671.2	2461.4	2443.4	1683.3
mean	80.5	59.9	53.8	62.4	63.7	55.3	62.2	62.3	55.2	59.8	56.8	52.4	52.0	35.8

TABLE LXXXVI: Outcomes of RPS (rps-rpp-vms) jbehave-junit-runner time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
				_				_		•	_			
989cea	69.6	12.3	12.3	12.1	13.7	13.5	10.7	9.7	10.2	11.3	13.4	9.1	9.7	4.8
9f8fe5	71.7	11.6	11.5	11.2	11.4	11.4	8.5	9.1	8.3	8.2	10.6	7.9	9.3	4.7
3c2e58	69.9	11.0	11.7	11.0	11.5	11.2	9.4	9.0	8.9	9.4	12.0	9.1	8.5	4.8
6756fd	71.4	11.8	12.1	12.2	12.5	11.1	8.6	9.3	8.7	10.2	11.7	9.0	9.7	4.8
eafa46	69.0	12.1	12.6	11.4	12.5	11.9	8.4	8.7	8.6	10.0	11.8	8.7	8.3	4.8
15cc3d	71.8	3.8	3.7	3.5	3.7	3.6	3.5	3.7	3.4	3.9	3.8	3.6	3.6	4.8
0be34d	68.5	9.1	8.2	8.1	9.1	9.0	8.8	9.1	8.2	8.5	9.5	8.5	8.0	4.7
c76b75	69.6	9.0	9.0	8.3	8.3	8.6	9.4	8.6	7.6	8.0	8.6	8.6	8.8	4.8
1c33a7	69.6	13.6	12.7	12.9	12.8	11.0	9.0	9.5	9.5	9.6	13.2	8.9	9.7	4.8
63b64b	68.5	9.2	9.5	9.4	9.0	8.5	6.5	6.8	6.3	6.0	9.6	6.4	7.1	5.0
8dc4ee	68.4	11.8	12.3	11.3	11.8	11.5	8.5	9.5	8.0	10.2	11.4	9.2	9.0	4.8
c78e51	68.2	11.1	12.2	11.2	11.5	11.1	9.5	9.2	9.3	9.4	11.0	9.0	8.8	4.7
9c0b8a	70.5	9.2	9.4	10.1	9.5	9.6	9.0	9.1	9.4	9.5	8.9	9.2	10.1	4.8
b68a9c	69.2	7.7	8.9	8.3	9.2	8.7	8.7	8.1	8.4	9.4	9.1	7.9	9.1	4.9
a0d064	69.9	3.6	3.8	3.5	3.8	3.8	3.7	3.7	3.6	4.1	3.9	3.9	3.9	4.7
338958	70.5	9.2	9.1	7.4	9.0	8.4	8.2	9.2	8.4	9.1	8.9	8.4	8.7	4.9
0faec4	70.3	8.0	9.0	8.5	9.3	7.7	8.6	8.1	7.3	8.5	8.0	9.0	9.1	4.7
d43f4f	68.7	5.8	7.0	6.3	6.8	6.3	6.5	7.4	5.3	7.2	6.1	5.7	6.9	4.7
747125	68.9	10.4	10.3	9.8	10.1	10.9	10.2	10.7	10.0	9.9	10.5	9.7	10.7	4.7
d46a70	69.4	9.8	11.6	8.9	10.1	10.5	9.8	10.7	10.0	10.5	10.3	9.6	10.7	4.8
f37f4d	68.8	3.6	3.6	I	3.7	3.5	ı	3.9	3.4	I		1		4.7
		l		3.6	l		3.5		7.9	3.8	3.6	3.4	3.6	
72f54c	68.8	11.7	12.2	11.3	11.9	11.5	8.4	9.8	1	9.4	11.3	8.4	9.7	4.6
1a9ed5	69.3	9.8	10.3	9.9	9.9	8.9	9.4	9.8	8.8	10.2	10.0	8.2	10.1	4.7
545f67	70.8	11.6	13.4	12.6	12.5	11.7	10.1	10.1	8.8	9.8	12.8	9.3	9.5	4.8
c7bc45	70.3	12.1	12.1	11.6	12.0	10.8	8.6	9.4	9.6	9.6	11.8	8.4	9.4	4.8
f61eec	73.1	9.3	9.5	9.4	10.6	9.1	9.4	9.6	9.4	9.2	9.4	9.3	9.7	4.7
45bb8c	70.5	10.9	9.5	10.1	10.7	10.0	10.0	9.9	10.1	10.8	9.8	9.1	11.0	4.6
25e4c7	71.9	9.6	10.3	10.6	10.0	10.5	10.0	9.8	9.1	10.6	10.7	9.8	10.2	4.9
df7e89	72.2	10.1	10.3	10.3	10.2	10.1	9.1	11.9	10.5	10.9	10.4	9.9	10.7	4.7
678357	70.5	11.8	12.2	11.5	13.0	12.0	8.8	9.0	8.6	9.4	11.3	8.5	9.3	4.6
25d1fe	70.1	11.4	12.1	10.9	12.1	11.8	8.8	9.3	7.5	9.1	11.3	9.1	8.5	4.6
1c1f87	69.6	9.5	9.3	8.5	10.3	8.9	9.1	8.7	8.9	9.2	8.7	8.7	8.7	4.6
ac017b	69.6	11.7	12.1	11.5	11.2	11.2	8.8	9.1	8.9	9.5	11.7	8.2	8.7	4.6
e893ae	69.5	11.9	12.1	11.8	11.0	11.1	8.6	9.3	8.2	10.3	11.9	9.0	9.3	4.5
a2df3c	72.0	9.4	9.6	8.7	9.0	8.5	9.2	9.4	9.4	9.6	8.8	8.4	9.5	4.6
530cf4	75.7	10.7	11.3	9.9	10.1	10.0	9.5	10.0	9.7	10.9	9.7	11.2	11.2	4.7
d037a8	75.0	3.6	3.8	3.6	3.7	3.6	3.7	3.7	3.5	3.8	3.9	3.7	3.8	4.6
7bc0fd	74.9	12.0	11.8	11.0	11.9	11.7	9.2	9.2	7.9	9.1	11.8	9.1	9.0	4.6
69879e	74.8	11.4	12.5	11.2	12.6	11.7	9.6	9.2	7.8	9.4	11.2	8.3	9.2	4.8
f8d201	75.0	12.1	12.2	10.9	12.5	10.5	8.1	8.8	7.8	9.5	12.0	9.0	9.2	4.5
9dbc92	76.6	10.0	9.9	9.2	9.7	10.1	9.9	11.0	9.5	9.7	10.6	9.4	10.8	4.8
4b015a	76.1	12.3	13.0	12.5	12.5	11.7	9.3	10.9	10.0	10.6	12.0	9.4	10.5	5.1
2a2882	76.9	13.0	13.8	11.8	13.3	12.1	8.9	10.0	9.4	9.7	12.1	10.3	9.4	4.9
b18c7d	76.4	4.6	4.9	4.3	4.5	4.5	4.4	4.7	4.3	4.8	4.7	4.6	4.7	4.7
253c76	79.0	12.3	13.5	12.0	13.0	12.3	9.1	10.6	10.5	10.9	12.3	9.4	10.0	4.8
6859e0	76.6	4.6	4.7	4.3	4.7	4.5	4.4	4.6	4.6	4.9	4.7	4.7	4.6	4.9
4b48b2	78.3	4.5	4.7	4.4	4.7	4.4	4.5	4.6	4.3	4.8	4.6	4.7	4.6	4.9
				l	1									1
d1321c	79.1	10.9	10.3	8.9	9.9	9.7	9.6	10.8	10.2	11.0	9.9	10.1	10.6	4.8
2c2d55	79.6	11.6	11.9	10.9	12.7	11.2	11.5	11.3	10.8	12.4	12.2	10.9	11.7	4.8
sum	3524.8	477.8	493.4	462.5	490.0	466.1	408.9	427.6	399.3	435.9	478.1	404.0	426.9	232.3
mean	71.9	9.8	10.1	9.4	10.0	9.5	8.3	8.7	8.1	8.9	9.8	8.2	8.7	4.7

TABLE LXXXVII: Outcomes of RPS (rps-rpp-vms) commons-lang time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
20de43	66.2	14.0	14.9	14.3	13.6	13.5	14.2	14.8	14.5	13.9	14.5	14.7	14.2	21.1
8dae1f	65.3	35.0	35.4	34.2	35.5	34.1	34.6	36.0	36.6	35.6	35.1	34.5	34.0	22.1
4f9285	66.0	33.3	35.7	33.4	34.3	31.7	34.4	34.7	35.1	35.5	33.7	33.4	32.6	21.6
22c304	65.8	32.7	31.2	33.7	31.3	31.6	34.6	35.8	32.9	32.2	31.3	32.2	30.7	22.0
101227	65.4	34.8	32.4	33.9	31.6	30.8	34.0	35.0	31.8	31.6	30.9	32.8	29.5	21.2
e863dc	65.2	34.2	35.9	33.9	32.0	32.6	34.2	34.8	36.1	32.5	31.7	33.2	31.7	21.4
f7cbda	65.9	34.4	35.6	32.9	34.9	32.7	33.1	35.0	35.8	34.9	34.5	31.9	32.1	21.6
6049e7	65.9	14.3	14.4	14.5	14.4	14.3	14.3	14.7	14.3	13.9	14.4	14.5	14.0	21.9
7d061e	65.8	30.6	29.8	29.6	30.1	29.7	30.0	30.8	31.1	29.9	30.1	30.6	29.5	21.9
bfb43d	66.2	13.7	14.8	14.2	13.9	14.0	13.7	14.5	14.6	14.2	14.6	14.1	14.1	21.5
d8ec01	66.3	29.7	32.3	30.1	29.8	29.5	30.9	32.3	30.4	30.3	30.1	30.9	30.6	21.8
6dfc3e	68.8	34.0	31.4	33.9	30.0	29.8	33.9	36.3	30.8	29.9	30.9	31.3	29.5	-21.5
5fb74a	65.9	13.4	14.7	14.0	14.0	13.7	13.8	14.5	14.4	13.8	14.4	14.4	14.4	21.6
c614fb	65.8	34.1	32.7	34.5	30.9	32.9	33.3	36.0	34.2	30.0	30.3	34.2	30.8	-21.4
0b70b0	67.5	29.8	31.9	31.1	30.4	30.3	30.2	29.9	31.2	30.7	31.5	31.4	30.8	21.5
63f11e	64.6	11.9	12.8	11.7	11.4	11.4	11.8	12.3	12.0	12.6	11.8	12.5	12.0	21.4
f5ebb9	66.3	32.3	33.8	31.7	32.1	30.1	32.4	33.8	33.0	33.9	30.7	31.2	31.3	21.5
e72654	65.7	11.8	12.8	11.9	11.6	11.3	11.8	12.0	12.7	11.8	12.3	12.4	12.9	21.2
d57505	66.0	32.9	34.7	32.5	33.4	30.0	32.7	34.0	33.9	32.5	31.8	30.8	30.9	21.0
sum	1254.7	506.8	517.2	505.9	495.2	483.9	507.8	527.2	515.5	499.8	494.7	500.9	485.4	409.1
mean	66.0	26.7	27.2	26.6	26.1	25.5	26.7	27.7	27.1	26.3	26.0	26.4	25.5	21.5

 $TABLE\ LXXXVIII:\ Outcomes\ of\ RPS\ (rps-rpp-vms)\ smartsheet-java-sdk\ time$

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
1d2e47	-47.3	-32.5	-32.9	-32.0	-32.1	-32.0	-24.7	-23.5	-23.1	-23.6	-33.1	-23.5	-22.8	-17.3
509364	-47.2	-32.3	-31.8	-32.6	-32.5	-31.7	-23.1	-23.4	-21.6	-23.0	-32.6	-22.4	-21.7	-17.5
5c83a1	-47.5	-36.4	-37.4	-36.8	-36.5	-37.2	-24.8	-23.9	-25.2	-24.2	-37.7	-24.5	-23.4	-17.6
43a4f7	-47.9	-36.5	-37.0	-36.7	-36.0	-35.9	-25.7	-24.5	-23.2	-23.9	-35.2	-23.6	-21.7	-17.8
240ee7	-47.9	-37.4	-36.7	-36.4	-36.2	-36.5	-24.2	-24.3	-24.1	-24.0	-35.8	-24.0	-22.3	-18.0
4ea223	-47.9	-42.6	-42.2	-42.0	-41.9	-41.5	-26.4	-26.3	-25.9	-25.8	-42.2	-26.0	-25.3	-18.3
177fc4	-48.0	-41.4	-41.3	-40.6	-40.5	-40.9	-25.2	-25.1	-24.9	-24.7	-41.7	-25.1	-24.1	-18.0
2844b0	-49.4	-41.0	-41.3	-41.0	-41.5	-40.9	-25.7	-25.4	-25.2	-25.3	-42.1	-25.0	-24.4	-18.1
97ecb7	-48.6	-42.1	-43.1	-42.0	-42.3	-42.1	-26.0	-26.6	-26.9	-26.4	-44.2	-26.7	-25.5	-18.4
94d558	-49.7	-42.0	-42.5	-41.6	-42.3	-41.4	-26.5	-26.7	-26.7	-25.6	-42.5	-25.9	-25.0	-18.4
de3432	50.3	42.3	41.8	42.2	31.8	41.4	26.2	26.7	25.6	23.9	32.4	25.0	23.7	18.5
4bedcb	48.9	5.3	5.1	5.2	5.2	5.2	5.5	5.5	5.0	5.2	5.3	5.4	5.3	18.3
ae8ebd	46.3	34.9	35.8	35.4	21.3	36.9	36.1	35.3	34.2	21.1	22.4	37.2	20.9	6.4
60de51	45.4	37.5	37.4	36.9	23.5	36.0	16.4	16.5	15.5	13.3	24.3	16.9	12.8	6.4
78c50e	46.4	36.4	38.4	36.5	24.9	36.2	16.9	16.0	16.0	14.0	24.4	16.0	12.7	6.5
9aa37d	49.1	36.0	36.0	35.3	22.6	35.4	37.3	36.4	36.7	22.9	23.6	37.3	21.7	6.8
73be08	49.2	39.5	40.7	39.4	26.7	38.3	18.0	17.7	16.8	16.1	26.7	17.9	15.0	6.8
aa7861	49.4	6.1	6.5	6.0	5.8	6.0	6.2	6.2	6.4	6.0	6.1	6.8	6.1	6.7
5a20f2	48.4	37.9	38.3	36.7	25.1	38.0	17.3	17.4	16.5	14.1	24.9	14.9	13.0	6.6
cbe2f7	50.2	41.3	42.7	40.3	28.2	41.8	20.6	20.5	19.8	17.4	28.9	20.7	18.0	7.3
sum	964.9	701.4	709.0	695.6	596.9	695.3	452.9	447.8	439.5	400.5	606.1	444.8	385.5	269.7
mean	48.2	35.1	35.4	34.8	29.8	34.8	22.6	22.4	22.0	20.0	30.3	22.2	19.3	13.5

TABLE LXXXIX: Outcomes of RPS (rps-rpp-vms) commons-dbcp time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
dba639	-94.7	7.4	7.9	8.1	7.9	8.1	7.4	7.6	8.1	8.1	7.7	7.9	7.6	-52.9
141671	-94.2	7.3	7.7	8.1	7.9	8.2	7.4	7.3	8.0	8.6	7.8	7.8	7.1	-52.7
b19355	-94.1	-58.4	-58.0	-58.5	-59.1	-58.9	-58.1	-57.9	-58.0	-59.3	-58.8	-58.5	-58.8	-52.6
43a618	-94.6	-57.0	-58.1	-57.8	-57.8	-57.8	-57.8	-57.7	-57.9	-58.3	-57.8	-57.9	-56.9	-52.7
4475a0	-93.5	-57.7	-57.2	-57.6	-58.4	-57.8	-58.3	-58.0	-57.9	-58.0	-58.0	-58.4	-57.2	-52.6
43e1ab	-95.1	7.7	7.6	7.9	7.8	8.3	7.6	7.7	7.9	8.3	7.7	7.8	7.4	-53.1
8c0391	-94.6	7.7	7.9	8.0	7.8	7.8	8.0	7.7	7.8	8.1	7.7	7.8	7.7	-52.8
12f80f	-94.8	8.0	8.0	7.8	8.1	8.0	7.6	7.7	8.3	8.1	7.7	8.0	7.8	-53.1
3ba469	-94.6	8.8	8.7	9.0	9.1	9.0	8.6	8.9	9.1	9.6	8.6	9.4	8.1	-53.5
0f656a	-95.1	-58.7	-58.3	-58.1	-58.6	-58.3	-58.2	-57.9	-58.5	-58.3	-58.4	-57.5	-57.9	-53.2
6bcbad	-94.4	-57.9	-58.3	-58.3	-59.4	-58.6	-58.2	-58.5	-58.6	-58.7	-57.7	-58.3	-58.3	-53.0
0b5b1b	-95.1	-57.8	-58.6	-58.3	-58.2	-58.9	-57.9	-58.2	-59.2	-58.0	-57.2	-58.1	-57.6	-53.2
f74029	-94.5	-58.3	-58.1	-58.5	-58.3	-58.2	-58.9	-57.9	-59.2	-58.5	-57.9	-58.2	-57.9	-53.3
8a1c11	-94.0	-59.3	-59.3	-59.2	-58.5	-58.9	-58.2	-57.7	-59.3	-59.2	-58.4	-58.6	-58.5	-53.2
e65434	-94.3	-58.3	-58.7	-57.8	-58.8	-58.4	-58.0	-58.8	-59.3	-58.7	-58.3	-58.0	-58.4	-53.3
861879	-94.8	-57.9	-58.2	-58.0	-58.7	-58.6	-58.1	-58.4	-58.3	-59.1	-58.0	-58.6	-57.7	-53.0
6641cc	-94.7	-58.3	-58.2	-58.5	-59.1	-58.7	-58.5	-59.3	-58.9	-59.4	-58.4	-58.5	-59.1	-52.9
840871	-94.7	-58.8	-58.4	-58.8	-60.1	-59.3	-58.1	-58.4	-58.6	-59.3	-58.6	-58.4	-58.3	-53.1
6a6504	-94.6	-58.4	-58.9	-59.1	-59.3	-58.5	-58.4	-58.3	-58.6	-58.7	-59.3	-58.7	-58.0	-52.8
sum	1796.3	803.6	806.1	807.6	812.7	810.2	803.5	804.0	811.5	814.4	804.1	806.3	800.4	1007.1
mean	94.5	42.3	42.4	42.5	42.8	42.6	42.3	42.3	42.7	42.9	42.3	42.4	42.1	53.0

TABLE XC: Outcomes of RPS (rps-rpp-vms) jnr-posix time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
496890	143.2	17.6	16.8	17.7	18.2	18.1	19.3	19.1	18.7	19.0	17.7	18.6	18.9	12.3
ba4016	146.1	17.7	17.9	17.7	18.3	19.6	17.8	19.2	18.3	18.1	18.1	18.1	17.9	12.2
220614	145.6	17.4	16.3	17.0	17.0	18.5	17.4	17.7	17.8	17.4	16.9	17.6	17.2	12.2
28a09c	143.8	27.1	27.1	28.0	27.4	30.2	-21.7	22.3	22.0	22.0	17.3	20.3	17.6	12.2
a03b2e	145.9	27.0	25.8	26.4	27.9	29.5	21.8	20.8	-21.2	20.7	26.3	19.9	20.7	12.2
6c8812	-2.5	-2.3	-2.2	-2.2	-3.0	-2.5	-2.5	-2.4	-2.4	-2.5	-2.2	-2.5	-2.4	-2.3
6d3956	144.6	25.8	26.9	26.1	29.3	28.6	22.0	22.3	20.5	-20.8	26.5	20.8	20.4	12.5
40396a	-2.3	-2.3	-2.2	-2.3	-2.6	-2.5	-2.4	-2.3	-2.4	-2.5	-2.3	-2.3	-2.4	-2.5
e935f8	143.3	26.9	27.8	27.3	29.6	29.7	21.5	22.1	22.4	21.5	26.0	21.6	21.3	12.4
40fa74	160.6	28.5	29.5	29.0	32.6	31.9	24.0	22.9	23.3	-22.4	29.9	23.4	-22.7	12.8
1548fb	155.6	30.1	30.0	30.6	34.9	33.5	22.5	22.2	22.0	22.0	29.6	21.8	21.3	12.7
5eed6f	157.1	30.9	30.1	31.0	34.2	33.9	22.4	22.9	23.8	21.6	-29.3	-21.1	21.1	12.7
dcd57f	155.8	30.1	29.7	30.0	33.6	32.5	22.7	23.4	23.1	21.9	29.5	-20.9	20.7	12.6
35f3bf	171.5	29.2	29.8	28.2	31.7	32.1	29.7	30.5	31.0	28.9	28.2	29.0	30.6	12.8
d4a2ab	170.3	30.7	29.8	30.2	19.6	33.1	23.3	23.1	22.4	17.1	17.3	22.6	18.3	12.8
edcead	170.6	28.8	28.5	28.1	17.0	31.4	29.9	29.4	30.4	15.1	15.9	28.4	16.4	12.9
8962f9	170.1	32.0	30.9	32.5	35.6	35.2	25.1	23.3	23.4	22.2	31.2	22.5	23.0	12.9
cd4525	170.3	29.9	30.9	29.6	19.1	33.6	22.9	22.4	22.8	17.7	17.5	21.1	18.5	13.0
e8502f	168.3	30.7	30.3	30.4	19.2	33.9	22.0	22.3	21.5	17.6	17.5	22.2	18.0	12.9
62c6a3	-1.1	-1.1	-1.1	-1.1	-1.3	-1.2	-1.2	-1.2	-1.1	-1.1	-1.1	-1.1	-1.2	-1.2
f65dff	170.0	29.2	29.0	29.0	16.9	31.1	30.3	30.0	30.6	15.8	14.5	28.9	16.5	12.8
0bde3f	172.1	31.9	31.0	32.1	35.6	34.6	33.7	32.9	32.8	31.5	32.0	32.1	33.6	12.9
9ь0780	171.9	33.3	33.3	32.9	37.7	37.0	23.6	24.7	24.1	23.5	32.5	22.6	23.6	12.8
cf12ff	167.8	31.2	30.7	31.0	35.3	33.9	33.1	32.9	33.3	31.4	31.8	31.7	32.9	13.0
a17daf	173.5	32.0	32.3	32.6	36.2	35.5	34.0	34.1	33.9	32.6	32.9	31.2	34.1	12.9
71d8d3	179.5	33.9	33.4	34.2	36.0	36.9	23.6	24.0	23.7	24.3	31.6	22.8	21.8	12.9
28d0c8	175.0	32.7	32.0	32.7	33.7	35.7	34.4	34.5	34.5	32.6	30.3	32.2	31.3	12.8
7be191	-1.1	-1.1	-1.1	-1.1	-1.3	-1.2	-1.1	-1.2	-1.1	-1.2	-1.1	-1.1	-1.2	-1.1
cccb9b	-1.1	-1.1	-1.1	-1.1	-1.3	-1.2	-1.2	-1.2	-1.1	-1.1	-1.2	-1.1	-1.2	-1.1
850f7b	180.4	32.6	33.0	33.8	37.8	37.5	36.0	35.2	35.4	34.3	33.6	33.1	35.4	13.2
c5a412	174.1	36.2	35.4	35.7	39.4	40.5	26.1	24.7	25.3	23.9	35.4	24.8	25.5	13.2
752f60	183.4	39.1	37.6	38.0	42.3	42.2	27.4	27.4	26.8	25.8	37.2	26.4	27.3	13.6
bc5484	184.5	36.6	37.2	37.2	38.5	41.0	25.9	25.5	26.0	24.6	34.4	24.7	23.7	13.4
44b67f	186.3	36.3	36.8	37.5	20.9	41.0	25.9	26.5	26.9	18.9	19.3	24.8	20.0	13.9
de7b93	184.6	6.8	7.0	6.8	8.0	8.2	7.0	7.5	7.5	7.1	6.9	7.3	7.2	13.6
2537ee	182.8	34.2	34.8	36.1	18.7	39.2	36.2	37.0	38.5	17.6	17.1	35.2	17.6	13.7
7d4317	185.7	6.9	7.0	6.8	8.1	8.1	7.4	7.8	7.3	7.1	7.1	7.2	7.5	13.4
ce0a9a	184.8	36.9	38.2	37.1	42.1	42.3	27.2	26.1	27.6	25.7	35.8	25.3	26.3	13.9
16bedc	185.7	34.8	34.9	35.5	40.7	37.9	36.7	36.6	37.6	34.8	35.6	35.2	37.0	13.7
46f849	185.4	34.5	34.9	35.9	41.1	39.6	37.6	37.3	37.1	34.6	34.2	34.2	36.9	13.7
21e451	186.3	34.8	34.7	35.9	39.2	38.9	36.0	37.5	36.3	35.7	35.4	35.6	37.3	13.4
1e1024	186.8	35.5	34.9	35.3	39.4	39.8	37.7	36.3	36.8	34.3	34.3	36.0	36.1	13.6
abbc4e	188.5	37.1	36.6	36.7	42.4	42.3	26.4	26.2	26.3	25.0	37.0	25.1	26.1	13.7
c2e2f6	195.7	35.5	36.3	35.3	39.8	39.6	37.9	37.9	38.6	35.7	35.8	35.4	37.9	13.8
7935cb	194.9	37.7	37.4	38.1	39.1	41.2	27.4	26.8	26.8	25.1	34.7	24.8	24.6	13.6
03a4a3	198.9	35.4	35.4	36.2	37.9	39.3	38.3	37.9	38.6	31.5	32.2	36.5	33.5	14.0
73813c	-196.1	-37.9	-36.4	-37.0	-21.0	-40.9	-26.0	-26.4	-25.9	-19.2	-19.4	-25.0	-20.1	-13.8
99c3b5	-195.3	-38.0	-37.3	-37.1	-41.8	-41.5	-25.8	-26.0	-25.9	-25.5	-36.8	-25.6	-25.8	-13.7
ce6e2b	-195.3	-37.0	-36.9	-37.6	-20.8	-41.2	-25.8	-26.3	-26.3	-19.3	-19.0	-26.0	-20.1	-13.7
sum	7636.2	1356.4	1350.3 27.6	1361.6 27.8	1345.2 27.5	1500.9	1182.0	1180.2	1183.3	1051.8	1189.3	1127.8	1072.8 21.9	584.8
mean	155.8	27.7	27.0	27.8	21.3	30.6	24.1	24.1	24.1	21.5	24.3	23.0	21.9	11.9

TABLE XCI: Outcomes of RPS (rps-rpp-vms) commons-imaging time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
cfeff1	90.3	45.1	47.7	44.6	44.9	47.5	43.9	45.0	42.5	44.0	29.7	43.2	33.7	20.8
212727	90.6	43.7	45.2	46.2	44.0	34.2	45.5	43.2	41.7	45.8	28.4	29.5	31.0	17.8
a9cca2	89.8	13.8	14.6	13.3	13.5	14.0	14.0	13.7	13.3	13.5	12.6	13.8	13.5	19.8
8a583a	89.7	43.7	48.8	44.1	44.6	37.2	44.0	43.2	41.8	43.4	29.1	29.3	30.2	17.6
f46d64	89.2	14.1	13.5	13.6	13.5	13.6	13.1	13.1	13.3	13.8	12.9	13.9	14.1	17.7
a32cb5	91.1	45.5	46.6	45.0	44.1	46.2	44.3	44.0	41.6	44.6	28.0	43.5	28.7	18.2
6962d8	90.3	44.2	46.0	44.2	44.5	46.3	45.0	44.2	42.7	45.3	26.9	43.8	28.2	22.5
62c8e6	90.7	42.9	44.0	41.9	41.9	44.0	43.3	41.7	40.3	44.1	40.7	41.9	40.2	18.1
ae548a	91.5	45.2	46.0	44.4	46.0	46.5	42.8	44.5	43.0	43.9	27.0	42.6	27.0	19.4
41d5cf	90.0	13.8	14.8	13.8	13.5	13.7	13.7	13.5	12.8	13.8	12.8	13.7	13.8	18.3
b43743	91.9	14.2	14.4	13.7	13.5	13.5	15.9	13.7	13.6	13.7	13.1	13.4	13.7	17.9
fb0be4	91.4	45.5	48.2	44.1	44.6	46.6	55.9	45.5	42.0	42.4	29.2	42.7	31.5	17.9
611c3b	91.0	26.9	30.6	27.1	27.9	33.4	31.6	27.6	25.9	28.1	30.8	27.1	26.9	17.9
40ab2c	91.0	13.9	13.6	14.0	13.8	13.4	13.8	13.9	13.2	13.7	12.4	13.7	13.5	17.5
c5ca63	90.7	28.8	27.7	28.9	27.1	31.8	25.7	27.9	26.8	26.9	29.1	27.1	27.3	17.6
4701b9	91.3	29.4	30.3	29.9	29.0	29.8	28.5	30.3	27.7	28.5	28.3	29.3	28.0	17.7
7862d6	91.1	31.0	31.6	33.1	31.0	31.5	31.6	31.3	29.5	30.9	29.6	30.0	31.7	18.2
51880b	91.4	30.1	30.7	31.9	31.1	30.8	31.0	31.4	28.9	31.8	28.1	29.5	29.0	17.7
0a6149	90.4	29.8	30.9	30.8	29.6	32.5	28.8	29.1	28.8	30.3	28.1	29.2	29.1	17.7
sum	1723.5	601.4	625.4	604.6	598.1	606.5	612.6	596.9	569.3	598.6	476.9	557.1	491.2	350.3
mean	90.7	31.7	32.9	31.8	31.5	31.9	32.2	31.4	30.0	31.5	25.1	29.3	25.9	18.4

TABLE XCII: Outcomes of RPS (rps-rpp-vms) javapoet time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
16cd72	59.2	18.3	18.5	18.1	18.6	18.3	15.5	14.3	14.3	15.3	18.2	16.2	15.6	8.0
868524	58.4	16.0	17.7	17.5	16.9	17.4	14.2	12.5	13.2	14.6	16.9	14.0	14.6	8.5
61b0fa	60.1	17.1	17.9	17.9	16.5	17.0	14.8	14.5	14.8	13.9	16.5	15.0	14.2	8.2
bc65a0	58.6	17.1	18.0	17.1	16.5	17.5	14.5	14.2	14.8	14.7	16.6	15.0	14.2	8.4
19b9d7	59.2	14.0	12.8	13.9	12.4	12.7	12.9	12.4	12.1	13.3	13.3	14.1	13.2	8.1
01f707	58.0	12.2	13.6	12.9	13.3	12.9	13.8	12.5	13.0	12.6	13.7	12.6	11.6	8.4
fa5c19	57.9	12.6	13.8	13.5	12.8	13.0	14.2	12.7	13.5	13.9	13.4	14.2	12.4	8.3
ff50d7	58.7	13.6	13.8	12.8	12.9	12.8	13.2	12.9	13.5	12.7	13.3	12.7	12.9	8.2
b66d3d	57.7	12.8	13.9	13.8	12.9	13.9	13.4	13.0	13.8	13.6	13.4	13.9	13.4	8.2
414da3	57.1	12.2	12.7	13.5	13.1	11.9	13.9	12.7	13.3	13.4	12.2	12.8	12.8	8.3
647b93	59.7	14.6	15.0	14.2	13.9	13.7	15.3	13.8	14.1	14.2	13.6	14.6	14.0	10.0
e11279	60.9	15.0	14.9	14.6	14.2	14.3	14.6	13.1	13.9	14.0	13.6	14.2	14.1	10.0
40dfa0	61.4	14.4	15.6	15.7	13.8	15.3	14.8	14.4	14.6	15.1	15.2	14.7	14.4	10.0
4cd975	59.7	15.1	15.4	14.9	15.5	14.6	15.3	14.7	14.3	14.3	14.7	14.2	14.1	10.1
ca12c7	61.0	13.6	13.7	14.4	14.5	14.4	14.8	13.9	14.4	13.2	14.3	14.9	13.6	10.3
08c714	62.0	13.6	13.7	14.4	14.1	14.3	14.1	13.5	13.0	15.0	15.4	14.7	14.3	10.1
a5694a	62.1	14.6	15.2	15.3	14.5	16.3	15.5	12.9	13.7	14.6	14.6	15.8	15.0	10.1
384395	61.0	15.7	14.8	14.7	14.6	15.4	14.6	13.6	15.0	14.4	15.6	14.4	14.1	10.1
f5b1b6	60.6	14.2	14.2	14.6	14.3	15.0	14.5	13.7	13.6	13.5	14.4	14.3	14.1	10.0
sum	1133.4	276.7	285.2	283.8	275.0	280.6	273.8	255.2	262.9	266.3	279.0	272.1	262.6	173.2
mean	59.7	14.6	15.0	14.9	14.5	14.8	14.4	13.4	13.8	14.0	14.7	14.3	13.8	9.1

TABLE XCIII: Outcomes of RPS (rps-rpp-vms) beanstalker time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
11a1a8	23.3	35.3	36.2	33.3	33.3	35.0	34.1	37.8	32.6	34.6	35.0	34.2	34.8	12.9
d3d9cc	24.1	39.4	41.4	39.0	40.5	37.8	38.7	36.5	36.8	37.1	39.5	39.4	39.2	12.9
fc343a	24.0	36.4	38.5	35.5	34.7	35.8	35.8	34.8	33.5	36.0	36.7	35.7	34.4	12.9
8dc528	29.9	51.5	54.1	51.1	49.7	47.9	49.5	49.3	50.3	47.8	51.0	50.8	49.2	16.8
966ec5	-21.7	-57.1	-58.2	-53.3	-52.2	-53.2	-52.5	-52.5	-51.6	-52.3	-51.3	-56.8	-50.1	-12.2
7c2a4a	0.9	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
68cf11	1.1	1.0	1.1	1.0	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
01a6eb	30.6	59.5	60.0	58.1	55.7	58.5	54.8	56.9	59.4	56.4	54.5	59.6	55.1	17.6
871176	30.2	56.1	58.4	55.1	58.4	56.1	58.0	58.7	57.3	58.0	55.8	58.1	57.4	17.2
e99f0a	35.8	66.2	67.6	62.6	62.6	61.9	62.4	61.7	63.8	61.8	61.9	64.9	60.1	21.3
70237c	37.1	69.6	66.1	66.0	64.5	65.3	66.7	65.1	64.4	64.4	64.2	68.5	63.3	21.3
cb517b	36.0	68.8	68.9	64.8	68.2	67.5	65.5	67.5	65.3	65.6	65.0	67.8	64.9	21.4
195fbe	35.8	67.2	66.3	63.9	63.9	63.4	64.4	63.5	64.2	64.6	64.8	67.6	63.0	21.3
ddf253	35.6	70.8	70.7	65.2	67.0	64.9	67.2	65.7	66.2	65.3	67.0	68.8	65.4	20.9
89c2ea	36.3	68.3	71.5	67.8	66.5	67.2	66.1	66.8	66.8	65.8	66.0	68.6	67.0	21.2
effb25	35.9	67.5	68.5	64.6	63.4	61.7	65.6	62.9	65.7	63.6	66.0	66.8	65.8	21.0
fe9fc8	35.6	76.7	77.0	72.4	74.5	71.6	73.1	73.0	72.6	73.8	71.9	78.1	73.6	21.4
0e57c6	36.2	67.5	67.6	65.5	65.7	64.3	64.8	64.2	64.8	64.5	63.9	66.7	66.0	21.6
246867	36.3	66.0	66.9	64.8	67.7	66.0	65.8	65.2	63.9	64.2	64.2	64.5	64.8	20.9
ed882c	42.1	88.7	87.7	82.4	83.0	83.0	83.2	80.7	84.3	83.0	81.1	87.6	78.7	25.0
fa900c	41.9	80.6	81.9	75.2	79.0	77.8	77.8	78.4	76.4	77.3	79.5	80.3	77.4	25.2
d5387d	41.3	82.8	83.2	78.0	78.4	77.7	78.5	77.2	76.6	78.1	76.6	80.8	76.2	25.1
276985	42.2	78.8	81.5	79.1	78.4	76.2	78.6	77.6	75.1	76.5	77.9	81.7	74.1	25.3
53790c	42.4	81.1	80.1	76.3	77.9	75.9	74.5	76.7	76.9	77.1	76.3	81.3	79.6	25.2
d92ac2	42.2	79.9	81.3	78.4	77.1	77.5	79.5	77.7	75.2	77.5	75.2	80.3	75.0	25.0
57b569	41.7	91.2	88.1	86.2	88.1	87.2	84.3	87.5	87.4	86.9	85.1	88.7	88.7	25.3
dc0bfb	41.0	78.1	77.0	75.0	73.4	73.8	75.1	75.0	75.7	73.0	71.9	78.3	74.3	24.7
5599aa	42.3	80.0	78.0	76.4	77.7	77.1	78.1	75.6	74.9	77.7	76.0	78.2	77.1	24.8
97f130	41.3	81.1	80.1	76.7	78.0	74.1	75.3	76.6	76.3	77.2	75.8	80.1	76.1	24.8
35549e	33.8	77.5	77.6	73.7	74.4	73.2	73.2	73.6	72.9	73.0	73.6	77.1	73.1	25.7
3566e8	33.6	80.2	80.6	76.9	77.1	75.9	76.4	76.6	76.2	76.1	75.7	80.5	76.3	25.6
69dbfa	33.6	83.2	82.8	79.5	79.5	78.9	78.3	77.8	76.7	78.4	78.2	82.2	77.7	25.3
edaba6	-31.7	-77.5	-77.3	-75.6	-74.5	-74.0	-73.2	-74.5	-74.3	-73.5	-73.7	-77.2	-73.9	-23.2
caed60	34.5	80.9	80.1	77.5	77.4	75.6	76.3	76.9	75.6	76.4	76.1	80.0	76.4	25.6
c45847	34.8	90.5	89.6	85.9	87.3	85.1	85.1	86.0	86.1	85.4	85.9	90.2	85.2	25.5
28d121	33.9	91.5	90.3	86.3	86.8	85.4	85.5	86.7	85.3	86.0	86.1	89.3	84.6	25.6
702ded	33.8	91.5	90.1	86.6	86.5	85.5	85.1	86.0	85.2	86.1	86.1	89.6	85.8	25.6
736c69	34.1	80.6	81.5	76.4	77.1	75.5	76.2	76.8	75.9	76.4	76.9	80.3	75.8	25.9
e57574	33.4	80.7	80.4	76.2	77.0	76.0	76.2	77.6	76.0	75.9	76.0	80.1	76.1	26.2
d87076	34.3	79.9	80.9	76.2	77.1	75.9	76.2	77.1	76.3	76.2	76.3	79.8	75.5	25.8
e859da	75.9	203.7	206.5	193.7	193.9	193.0	191.7	194.1	193.3	192.2	191.1	201.9	192.2	64.9
40357a	75.7	207.9	206.8	196.6	198.9	197.8	196.3	195.6	195.8	197.0	196.5	207.6	195.8	65.1
332f14	-22.2	-27.3	-27.5	-25.7	-26.0	-25.8	-25.5	-25.8	-25.4	-25.7	-25.6	-26.9	-25.5	-21.1
c7e905	66.6	176.5	176.7	168.3	169.6	167.1	167.5	169.5	166.3	168.4	167.1	175.6	166.5	56.6
ec5fc3	68.0	178.0	178.6	171.9	171.3	170.1	168.1	169.4	168.6	168.9	169.8	177.8	167.8	57.8
a1d8eb	67.4	185.1	184.7	175.7	178.1	176.9	175.5	176.3	176.4	175.6	175.5	184.6	174.1	56.7
a53ecd	67.1	184.8	185.0	178.3	176.2	177.0	176.3	176.7	177.6	174.7	175.0	184.4	174.1	57.1
620e45	66.8	184.9	186.0	176.7	177.1	176.6	174.3	175.9	177.9	176.2	174.8	184.3	175.6	57.2
cd171f	-50.2	-143.1	-144.1	-138.0	-136.5	-137.3	-135.6	-136.4	-137.8	-136.2	-136.5	-143.3	-134.9	-48.0
sum	1896.3	4253.3	4265.9	4064.3	4083.9	4042.9	4044.3	4056.6	4039.6	4040.7	4032.2	4228.5	4020.1	1331.6
mean	38.7	86.8	87.1	82.9	83.3	82.5	82.5	82.8	82.4	82.5	82.3	86.3	82.0	27.2

TABLE XCIV: Outcomes of RPS (rps-rpp-vms) commons-io time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps31	ps3c	ps2cl	ps3cl	test
2196ff	411.4	13.2	14.6	12.7	13.2	12.6	14.1	13.8	13.2	13.3	13.7	12.5	13.9	101.5
65657b	414.5	13.5	13.3	13.4	12.9	13.7	13.6	12.7	12.1	14.1	13.5	12.3	14.0	101.2
6e2ac1	415.7	166.5	166.9	164.3	162.8	159.8	150.0	147.3	141.6	146.1	155.1	140.4	141.3	101.7
b014a0	415.1	12.5	13.3	13.2	12.4	13.3	13.0	12.7	12.7	12.7	13.6	12.4	14.0	101.5
dcf6e8	412.2	113.1	118.3	-115.0	114.5	116.4	117.0	116.4	114.4	113.1	116.3	115.5	116.9	102.7
84a0d9	408.8	115.2	118.2	114.2	114.4	115.9	116.5	115.6	114.9	114.6	116.2	114.6	116.4	102.1
10c8db	412.3	113.8	118.2	114.5	112.4	117.5	117.0	116.0	115.9	113.7	116.4	114.0	116.4	102.3
2bacf6	414.1	11.0	11.4	10.3	10.2	10.8	12.2	10.4	10.7	10.6	10.0	10.7	10.8	101.8
4f50c3	418.1	113.4	119.5	114.8	112.9	116.2	117.0	115.6	114.8	114.5	116.0	114.6	116.6	102.8
30280a	413.1	144.7	144.6	143.7	143.1	142.9	139.2	135.1	127.0	135.9	140.2	125.6	129.1	101.7
9cd312	407.3	143.5	144.8	144.7	143.2	142.8	139.5	135.9	126.1	134.9	140.9	127.0	130.5	101.7
c1b64e	410.9	11.7	12.6	12.4	12.0	11.9	12.4	12.2	11.5	12.4	12.6	11.4	13.0	101.9
65c4a9	409.2	12.8	13.2	12.7	12.3	12.5	12.5	13.6	12.9	12.7	13.1	11.7	13.3	101.6
86cc77	423.0	12.9	13.0	12.2	12.6	13.3	13.1	12.6	12.3	12.0	12.8	12.2	12.9	103.5
d3fc1a	422.9	11.6	11.9	12.0	11.8	12.1	11.9	11.7	12.6	11.6	12.5	12.1	12.2	101.7
d19259	420.8	149.3	146.4	148.7	148.3	142.5	142.4	139.6	131.3	138.1	137.0	129.4	129.0	103.0
ed15b0	420.5	195.6	150.0	196.6	186.3	147.6	177.3	172.5	130.9	168.7	140.6	130.2	129.2	102.1
459ceb	419.1	195.0	151.1	196.1	155.4	146.3	180.3	-174.0	130.6	-140.2	135.6	130.7	128.2	101.6
947c01	416.5	158.3	151.7	158.1	156.5	146.7	145.9	144.8	137.2	141.9	143.5	133.1	136.4	103.0
sum	7885.4	1707.7	1633.2	1709.8	1647.3	1594.8	1645.0	1612.4	1482.4	1561.2	1559.4	1470.4	1494.1	1939.2
mean	415.0	89.9	86.0	90.0	86.7	83.9	86.6	84.9	78.0	82.2	82.1	77.4	78.6	102.1

TABLE XCV: Outcomes of RPS (rps-rpp-vms) imglib2 time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps1l	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
311bb3	31.6	18.8	18.6	17.0	18.8	16.9	17.8	18.7	18.6	17.1	18.3	19.0	17.4	12.6
e45314	31.2	17.6	17.4	16.7	17.1	16.3	15.7	16.5	17.3	15.9	17.0	16.8	16.7	12.5
2d6644	31.2	17.1	17.5	15.8	16.9	15.9	15.5	16.0	16.4	15.7	17.1	16.8	16.3	12.6
ca346b	31.5	21.6	17.7	20.6	21.2	17.9	20.5	20.6	18.1	20.6	18.7	18.6	15.9	12.9
28c941	31.4	23.3	18.2	21.1	22.6	17.9	21.5	20.9	18.0	21.5	19.2	18.9	18.2	12.9
f835a8	31.0	7.4	7.0	6.9	7.1	7.2	7.4	6.7	7.4	7.0	7.6	7.7	7.1	12.3
a735f9	31.1	21.7	21.5	21.3	22.8	20.0	20.9	20.6	21.5	20.2	22.4	21.3	21.0	13.1
bba835	31.3	16.6	17.7	16.8	16.3	15.7	15.4	15.7	16.6	15.6	16.4	17.2	16.1	12.9
e2f354	31.2	16.7	18.0	17.4	16.5	16.7	16.2	16.6	17.9	17.5	18.2	17.0	16.6	12.4
897b86	31.5	8.3	7.4	7.2	7.0	7.1	7.0	6.8	7.4	6.6	7.9	6.3	7.2	12.9
59cf72	31.4	22.2	21.2	21.1	21.0	21.0	20.8	20.8	22.0	21.0	21.7	21.2	21.3	12.6
1941a7	31.6	21.6	22.6	20.8	22.5	20.7	21.6	20.5	21.5	21.0	21.6	21.4	21.6	12.7
ca903a	33.8	21.0	21.3	20.5	21.6	20.7	19.4	19.5	21.1	19.2	20.5	21.0	20.6	13.4
1fe7da	33.8	23.3	18.4	20.9	23.8	17.4	22.1	21.3	19.1	21.5	18.8	19.0	18.7	13.5
d5e69f	33.8	8.0	7.8	7.5	8.3	7.8	7.9	7.3	8.6	7.5	8.1	8.0	7.5	13.3
b34e8b	33.7	23.0	18.0	21.9	18.3	16.9	21.2	21.1	19.7	17.3	17.9	18.3	17.5	13.6
43e04d	34.0	23.1	18.5	21.7	18.9	17.5	21.7	22.1	17.8	17.2	18.1	19.4	18.0	13.6
156d36	34.4	22.9	23.4	21.6	17.5	21.2	22.6	21.7	22.4	17.1	18.7	22.7	17.6	13.7
599cd1	34.1	23.8	19.0	22.4	18.4	18.3	21.5	21.5	19.1	17.8	18.5	20.4	18.2	13.7
sum	613.9	357.9	331.3	339.4	336.7	312.8	336.7	335.1	330.4	317.5	326.6	330.8	313.6	247.3
mean	32.3	18.8	17.4	17.9	17.7	16.5	17.7	17.6	17.4	16.7	17.2	17.4	16.5	13.0

TABLE XCVI: Outcomes of RPS (rps-rpp-vms) jscep time

				_										
sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
e553d4	46.9	28.9	28.7	28.2	29.0	28.9	27.8	27.4	27.1	27.1	28.3	27.4	27.9	21.9
ce7b9a	47.9	26.0	26.0	25.3	26.9	26.5	26.1	25.4	25.8	26.6	26.0	25.0	26.3	21.8
8cd073	47.6	29.6	29.9	28.7	30.0	29.9	26.3	26.2	26.8	25.8	30.4	26.5	25.7	21.8
6e794a	47.7	30.0	30.5	30.4	31.4	29.7	27.3	26.9	28.2	26.1	29.0	26.5	26.8	22.3
c77163	33.7	15.7	17.5	14.9	15.1	16.0	11.6	12.3	11.9	12.8	14.1	12.0	13.2	7.6
da5108	33.8	15.7	16.4	15.8	14.6	15.9	12.5	12.2	12.7	12.4	13.4	11.7	11.9	8.1
7cc074	33.8	3.9	4.2	4.1	4.2	3.9	3.9	3.9	4.1	4.1	4.0	3.9	3.9	8.0
886eac	33.4	15.9	16.3	15.7	16.9	16.2	13.2	12.9	12.5	13.3	15.5	13.0	13.0	7.7
6404ef	34.2	4.1	4.2	4.1	4.1	4.2	3.9	3.9	3.9	4.0	4.1	4.1	4.1	7.9
a039b8	34.2	12.1	11.8	12.2	13.1	12.1	11.9	10.5	11.5	11.5	11.9	11.5	11.4	8.1
c45090	33.2	3.8	4.3	3.8	4.3	4.1	3.7	3.9	4.1	3.8	3.9	3.9	4.1	8.0
2af66c	33.9	12.1	13.1	11.9	13.2	12.1	11.4	12.5	12.3	11.7	11.3	11.6	12.0	7.8
ab5a7f	33.3	15.7	16.2	16.1	13.7	16.0	11.9	12.7	12.4	12.2	14.3	12.4	11.6	8.1
afd8e1	33.2	16.9	16.6	16.2	16.9	16.3	12.7	12.7	12.9	11.6	15.5	13.0	13.5	8.1
1cf7dd	33.7	16.1	16.5	16.2	16.5	15.4	12.6	12.4	13.0	11.5	16.3	11.2	12.7	7.8
c27515	33.2	14.6	15.7	15.2	15.4	16.3	12.2	12.0	11.4	11.8	14.4	12.3	12.4	7.6
e4683d	32.9	15.6	17.0	16.1	16.7	15.6	12.5	12.1	12.1	12.2	15.2	11.8	11.8	7.9
9a58e1	33.8	15.4	15.8	15.8	15.9	14.9	12.7	11.6	12.4	12.7	15.4	11.5	12.9	7.5
661ba5	33.9	15.0	16.0	12.3	13.3	13.2	11.1	12.2	11.7	11.3	12.8	11.1	12.1	8.1
298ec2	33.2	15.8	16.0	13.1	13.5	13.0	10.9	11.7	12.1	12.1	13.3	11.3	11.9	7.8
71cc1e	33.5	15.5	15.8	14.7	14.0	15.3	13.0	12.7	12.2	12.0	13.4	11.8	12.7	7.5
d30047	33.0	15.8	15.9	15.2	14.2	16.3	12.8	12.6	11.9	12.1	13.2	12.5	12.3	7.6
2c828e	32.6	15.3	15.8	15.4	15.2	15.7	12.2	12.9	11.3	13.1	14.8	11.0	11.3	7.8
fa7653	32.9	16.0	15.9	15.8	16.6	16.7	12.6	13.7	13.0	13.4	17.1	13.3	14.2	7.3
9284fb	33.0	15.8	15.4	15.3	16.9	15.7	11.0	13.0	12.6	12.7	15.1	11.8	12.0	8.0
795bcb	33.4	15.9	16.2	15.5	16.1	15.1	12.6	12.6	11.8	12.3	14.9	12.4	12.5	7.7
8f11a9	34.0	16.7	16.2	15.8	16.0	15.8	12.0	13.0	12.8	13.5	16.7	11.9	12.6	8.0
b64cb3	33.2	4.1	4.2	4.2	4.3	3.9	3.8	3.9	4.2	3.8	4.1	3.9	3.9	7.8
338fad	34.2	4.2	4.2	3.8	4.3	4.2	3.9	4.0	4.0	4.0	4.0	4.0	4.4	7.8
2e6948	33.7	13.4	14.5	13.9	14.5	14.3	12.5	12.4	12.8	11.6	13.8	11.3	12.6	7.8
e5cf30	34.0	16.7	16.7	15.0	16.5	16.0	12.6	12.6	12.7	12.3	15.5	12.3	12.3	8.3
42bb03	33.2	15.2	15.3	15.2	16.0	15.5	12.6	12.5	12.6	12.0	15.8	12.5	12.4	7.5
a40f7b	34.1	16.2	15.3	14.2	14.5	13.6	12.0	11.6	12.8	12.1	13.6	11.9	13.0	7.5
35b503	34.9	16.2	15.9	13.8	15.1	14.5	13.1	11.8	13.7	12.5	13.6	12.9	12.2	7.6
daabb3	34.6	15.7	16.4	13.0	14.2	13.2	12.9	11.4	12.3	12.2	13.5	11.6	12.3	7.8
abe114	33.1	15.9	16.1	14.6	14.1	14.6	12.7	13.1	11.7	13.1	14.2	12.4	12.9	7.4
647e36	34.1	4.0	4.2	3.9	4.2	4.2	3.8	2.9	4.1	3.9	4.2	4.1	4.2	8.2
727d01	33.4	13.9	13.2	12.7	14.7	14.0	13.6	13.3	13.5	11.5	13.2	12.1	12.2	8.3
848385	33.3	15.5	17.1	14.3	15.8	15.8	11.9	12.7	12.0	12.4	15.2	11.8	12.8	7.7
f0b104	33.7	13.2	14.7	13.0	14.3	12.9	13.1	13.4	12.8	12.4	13.0	13.1	14.0	7.8
97bf71	33.7	16.0	14.9	13.7	14.2	14.0	12.1	12.7	11.8	12.0	13.5	11.7	12.6	8.1
615b24	35.3	13.4	14.1	10.9	12.4	13.1	13.4	12.3	13.4	11.9	11.6	11.8	12.4	7.7
a712db	-107.2	-81.4	-66.3	-90.3	-70.7	-81.9	-64.5	-86.8	-60.6	-80.7	-62.5	-62.6	-82.9	-70.0
d5c64b	-87.5	4.2	4.3	4.3	4.2	4.0	3.9	4.1	4.0	4.2	3.9	4.0	4.3	-63.7
19f366	-101.3	-64.2	-73.6	-87.9	-81.4	-99.6	-79.9	-72.0	-79.3	-108.4	-80.8	-67.0	-77.4	-92.5
94a361	-84.6	-73.9	-85.8	-96.4	-62.1	-103.4	-92.9	-56.2	-76.6	-68.4	-83.2	-86.0	-73.6	-84.8
40295a	-93.5	4.1	4.3	3.9	4.2	4.2	3.9	3.8	4.1	4.2	3.9	4.1	4.1	-68.7
fee2a5	-93.3	-94.0	-93.2	-91.3	-85.6	-97.0	-90.0	-95.8	-61.6	-76.5	-74.4	-92.3	-62.3	-89.1
3c9dd9	-106.6	-97.0	-80.2	-81.5	-81.4	-88.7	-78.9	-76.4	-83.0	-70.5	-103.9	-73.3	-73.9	-74.0
sum	2142.5	1046.5	1048.6	1055.4	1012.0	1093.4	940.6	921.8	898.0	934.4	1005.6	902.9	909.8	927.9
mean	43.7	21.4	21.4	21.5	20.7	22.3	19.2	18.8	18.3	19.1	20.5	18.4	18.6	18.9
	1							1	1					

TABLE XCVII: Outcomes of RPS (rps-rpp-vms) stream-lib time

sha	mop	ps1	ps1c	ps2	ps3	ps2c	ps11	ps2l	ps1cl	ps3l	ps3c	ps2cl	ps3cl	test
6a6645	582.8	94.7	89.7	90.9	92.7	93.7	92.1	92.0	95.1	92.7	96.2	89.9	95.6	88.5
91d215	581.8	90.1	85.4	86.6	84.0	88.2	87.8	87.6	90.6	88.4	92.9	86.1	88.9	90.1
c0e238	594.8	88.6	84.2	90.8	87.1	87.5	88.3	87.5	91.0	87.8	91.0	86.1	91.2	88.6
63255d	858.6	90.5	84.3	90.5	88.0	88.3	89.6	90.3	91.8	90.3	92.7	88.2	90.4	87.8
0f2183	601.2	90.5	85.7	89.8	87.5	87.6	91.6	91.9	92.7	88.7	92.2	86.7	90.9	89.8
98b913	647.7	90.2	83.1	90.1	88.5	89.9	91.3	90.8	-90.0	89.3	92.9	87.0	89.5	89.3
43aecb	664.5	89.3	86.8	90.2	87.2	90.3	90.6	90.5	91.0	86.2	91.9	89.1	89.9	88.9
0c33f1	477.9	89.4	84.6	90.2	87.4	87.8	91.6	91.0	92.0	89.2	92.4	88.3	89.5	89.5
0eca17	599.7	89.2	85.0	90.6	87.5	89.4	90.0	87.8	91.5	90.3	92.1	88.7	89.0	88.6
7433ea	471.2	90.3	85.6	90.1	86.7	88.6	91.3	89.5	92.5	86.6	93.0	86.5	91.1	88.3
8da108	712.9	94.9	87.2	91.7	91.1	88.9	91.6	90.1	91.7	92.0	94.8	89.0	91.3	90.5
7d085a	509.9	4.6	4.5	4.3	4.5	4.4	4.6	4.4	4.6	4.5	4.5	4.7	4.6	90.2
22654f	757.3	92.6	86.4	90.2	86.8	88.0	88.0	88.3	92.9	88.4	93.0	89.3	91.7	90.3
35a0d3	456.3	89.1	82.8	86.1	84.5	83.6	83.1	84.8	89.3	85.5	-90.2	86.1	86.9	87.1
b5fc30	600.6	94.1	88.2	93.4	90.9	90.4	91.6	86.7	93.5	90.3	92.9	91.4	92.0	87.1
3ac200	747.9	104.0	98.8	97.8	99.2	101.3	99.2	96.6	103.7	99.3	106.1	-99.2	102.0	98.7
f0518e	715.4	110.3	104.4	109.5	104.6	110.9	106.3	102.8	109.9	107.0	110.1	104.2	107.9	105.0
8f31aa	536.4	108.6	102.8	107.2	106.4	109.6	107.1	102.9	111.5	107.5	110.0	105.0	110.6	105.6
573fa7	775.4	92.6	85.5	91.2	88.5	90.6	89.4	86.3	92.4	90.7	92.4	88.1	-91.0	85.5
sum	11892.6	1693.4	1594.9	1671.3	1632.8	1658.8	1665.1	1641.9	1707.8	1654.9	1721.2	1633.7	1684.0	1729.5
mean	625.9	89.1	83.9	88.0	85.9	87.3	87.6	86.4	89.9	87.1	90.6	86.0	88.6	91.0