

LZ4 (lz4-java)

Benchmark	(block size)	(sigma)	(# blocks)	Time (ms/op)	Error (± ms/op)	Difference
Native compress	512	2	2048	5.298	0.325	
Native compress stream	512	2	2048	3.461	0.241	
Native decompress stream	512	2	2048	1.170	0.084	
Provided compress	512	2	2048	3.985	0.996	75.217%
Provided compress stream	512	2	2048	3.078	0.235	88.934%
Provided decompress stream	512	2	2048	0.559	0.103	47.778%
Native compress	4096	2	256	3.830	0.397	
Native compress stream	4096	2	256	3.304	0.191	
Native decompress stream	4096	2	256	1.136	0.099	
Provided compress	4096	2	256	3.141	0.185	82.010%
Provided compress stream	4096	2	256	3.015	0.352	91.253%
Provided decompress stream	4096	2	256	0.545	0.049	47.975%
Native compress	32768	2	32	3.188	0.224	
Native compress stream	32768	2	32	3.283	0.227	
Native decompress stream	32768	2	32	1.132	0.079	
Provided compress	32768	2	32	2.756	0.468	86.449%
Provided compress stream	32768	2	32	2.967	0.145	90.375%
Provided decompress stream	32768	2	32	0.560	0.093	49.470%
Native compress	65536	2	16	3.030	0.129	
Native compress stream	65536	2	16	3.271	0.175	
Native decompress stream	65536	2	16	1.147	0.065	
Provided compress	65536	2	16	2.597	0.134	85.710%
Provided compress stream	65536	2	16	2.995	0.157	91.562%
Provided decompress stream	65536	2	16	0.560	0.091	48.823%
Native compress	512	5	2048	2.176	0.180	
Native compress stream	512	5	2048	0.991	0.037	
Native decompress stream	512	5	2048	0.713	0.048	
Provided compress	512	5	2048	1.729	0.085	79.458%
Provided compress stream	512	5	2048	0.859	0.060	86.680%
Provided decompress stream	512	5	2048	0.499	0.032	69.986%
Native compress	4096	5	256	1.133	0.235	
Native compress stream	4096	5	256	0.875	0.042	
Native decompress stream	4096	5	256	0.684	0.063	
Provided compress	4096	5	256	0.898	0.068	79.259%
Provided compress stream	4096	5	256	0.816	0.031	93.257%
Provided decompress stream	4096	5	256	0.482	0.013	70.468%
Native compress	32768	5	32	0.946	0.125	
Native compress stream	32768	5	32	0.851	0.048	
Native decompress stream	32768	5	32	0.686	0.078	
Provided compress	32768	5	32	0.772	0.056	81.607%
Provided compress stream	32768	5	32	0.834	0.125	98.002%
Provided decompress stream	32768	5	32	0.490	0.033	71.429%
Native compress	65536	5	16	0.919	0.080	
Native compress stream	65536	5	16	0.866	0.039	
Native decompress stream	65536	5	16	0.687	0.057	
Provided compress	65536	5	16	0.742	0.054	80.740%
Provided compress stream	65536	5	16	0.799	0.048	92.263%
Provided decompress stream	65536	5	16	0.493	0.026	71.761%
# JMH version: 1.33						
# VM version: JDK 11.0.8, OpenJDK 64-Bit Server VM, 11.0.8+10-LTS						
# VM invoker: /Library/Java/JavaVirtualMachines/zulu-11.jdk/Contents/Home/bin/java						
# Blackhole mode: full + dont-inline hint (default, use -Djmh.blackhole.autoDetect=true to auto-detect)						
# Warmup: 5 iterations, 10 s each						
# Measurement: 5 iterations, 10 s each						
# Timeout: 10 min per iteration						
# Threads: 1 thread, will synchronize iterations						
# Benchmark mode: Average time, time/op						