

LZ4 (Aircompressor)

Benchmark	(block size)	(sigma)	(# blocks)	Time (ms/op)	Error (± ms/op)	Difference
Native compress	512	2	2048	5.191	0.490	
Native compress stream	512	2	2048	3.445	0.121	
Native decompress stream	512	2	2048	1.160	0.123	
Provided compress	512	2	2048	3.362	0.193	64.766%
Provided compress stream	512	2	2048	3.703	0.217	107.489%
Provided decompress stream	512	2	2048	0.821	0.061	70.776%
Native compress	4096	2	256	3.877	0.256	
Native compress stream	4096	2	256	3.357	0.119	
Native decompress stream	4096	2	256	1.132	0.080	
Provided compress	4096	2	256	3.537	0.262	91.230%
Provided compress stream	4096	2	256	3.740	0.377	111.409%
Provided decompress stream	4096	2	256	0.800	0.053	70.671%
Native compress	32768	2	32	3.186	0.348	
Native compress stream	32768	2	32	3.295	0.175	
Native decompress stream	32768	2	32	1.142	0.072	
Provided compress	32768	2	32	3.616	0.596	113.497%
Provided compress stream	32768	2	32	3.561	0.248	108.073%
Provided decompress stream	32768	2	32	0.816	0.042	71.454%
Native compress	65536	2	16	3.067	0.176	
Native compress stream	65536	2	16	3.388	0.608	
Native decompress stream	65536	2	16	1.147	0.106	
Provided compress	65536	2	16	3.478	0.233	113.401%
Provided compress stream	65536	2	16	3.695	0.229	109.061%
Provided decompress stream	65536	2	16	0.838	0.211	73.060%
Native compress	512	5	2048	2.209	0.219	
Native compress stream	512	5	2048	0.981	0.073	
Native decompress stream	512	5	2048	0.707	0.058	
Provided compress	512	5	2048	1.265	0.246	57.266%
Provided compress stream	512	5	2048	1.077	0.052	109.786%
Provided decompress stream	512	5	2048	0.695	0.051	98.303%
Native compress	4096	5	256	1.118	0.076	
Native compress stream	4096	5	256	0.881	0.068	
Native decompress stream	4096	5	256	0.674	0.049	
Provided compress	4096	5	256	1.072	0.061	95.886%
Provided compress stream	4096	5	256	1.013	0.088	114.983%
Provided decompress stream	4096	5	256	0.684	0.042	101.484%
Native compress	32768	5	32	0.934	0.108	
Native compress stream	32768	5	32	0.858	0.048	
Native decompress stream	32768	5	32	0.688	0.056	
Provided compress	32768	5	32	1.016	0.223	108.779%
Provided compress stream	32768	5	32	1.034	0.067	120.513%
Provided decompress stream	32768	5	32	0.685	0.030	99.564%
Native compress	65536	5	16	0.906	0.041	
Native compress stream	65536	5	16	0.854	0.080	
Native decompress stream	65536	5	16	0.679	0.049	
Provided compress	65536	5	16	0.983	0.057	108.499%
Provided compress stream	65536	5	16	1.021	0.063	119.555%
Provided decompress stream	65536	5	16	0.701	0.061	103.240%
# 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						