

HPE BL460c Gen10 — 2×Xeon Gold 6148, 64 GB, Rotational HDD

Duration [ms]

d	NO			PGLZ			LZ4			ZSTD		
	w=1	w=4	w=8	w=1	w=4	w=8	w=1	w=4	w=8	w=1	w=4	w=8
1	203,822	565,948	1,747,711	407,951	671,629	1,203,065	185,622	466,718	1,176,184	162,177	281,889	603,549
10	199,880	650,737	1,792,932	407,541	657,452	1,249,887	182,362	413,602	1,189,478	165,654	286,781	691,325
100	185,036	593,082	1,678,863	406,853	616,810	1,208,607	174,386	442,484	1,159,667	156,841	294,702	574,523
1000	214,782	580,077	1,685,297	364,107	535,046	904,566	169,182	336,801	873,792	158,037	246,218	475,242

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Duration as % of uncompressed (same d, same w) — <100% = faster, >100% = slower

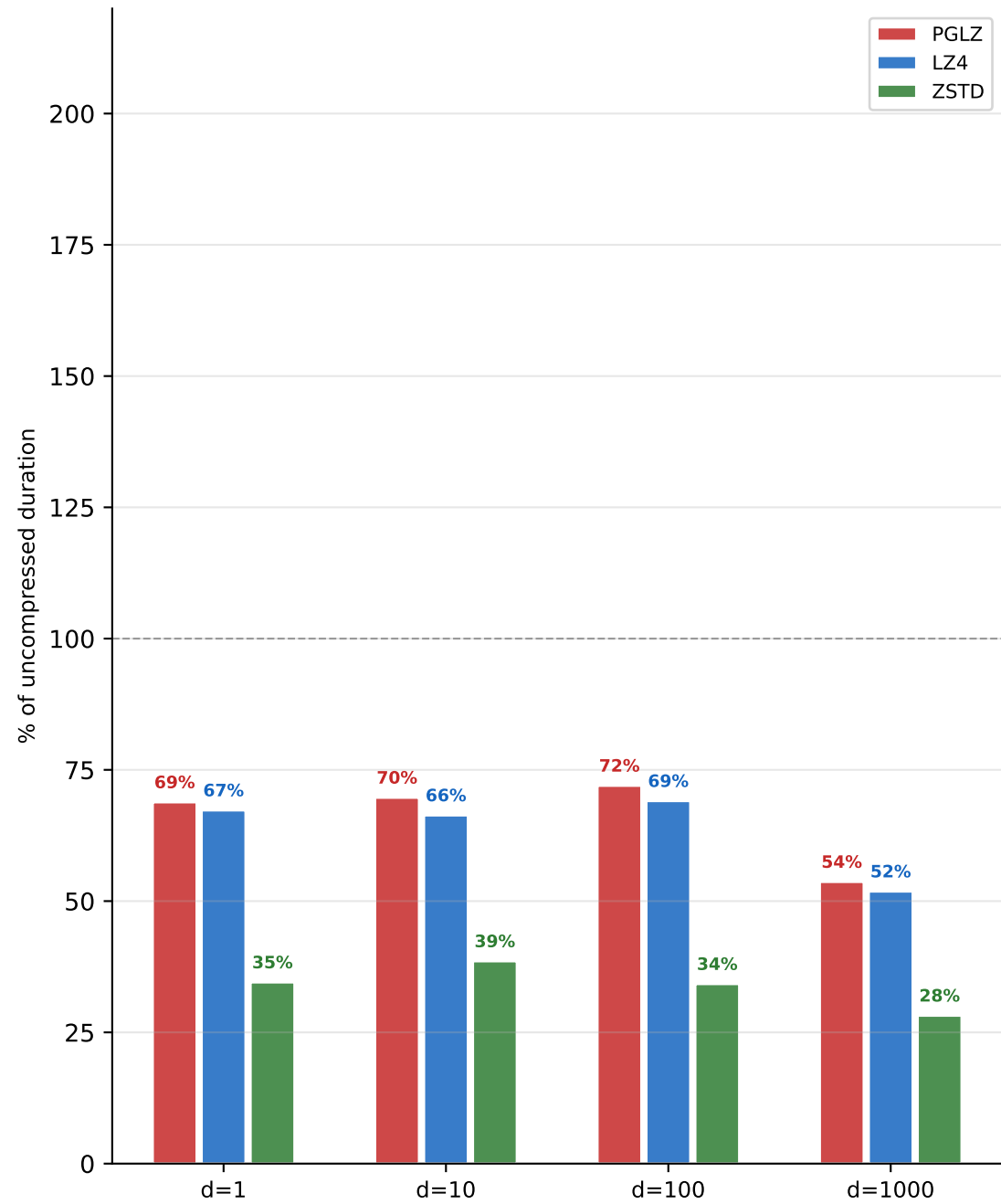
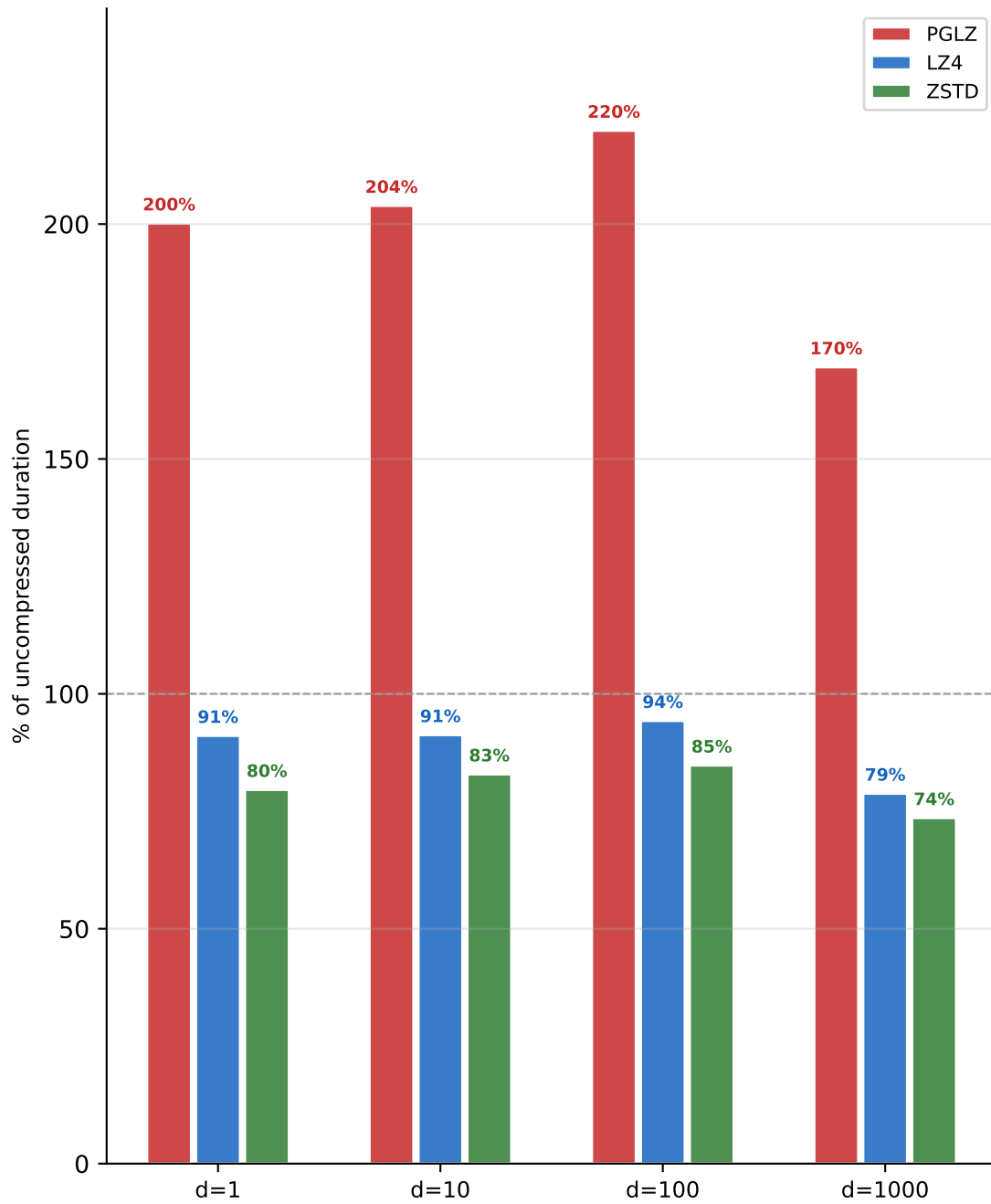
d	PGLZ			LZ4			ZSTD		
	w=1	w=4	w=8	w=1	w=4	w=8	w=1	w=4	w=8
1	200%	119%	69%	91%	82%	67%	80%	50%	35%
10	204%	101%	70%	91%	64%	66%	83%	44%	39%
100	220%	104%	72%	94%	75%	69%	85%	50%	34%
1000	170%	92%	54%	79%	58%	52%	74%	42%	28%

< 85% = significant speedup
 85-105% = within noise / neutral
 105-115% = mild regression
 > 115% = significant regression

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w=1 (single connection — CPU-bound)

w=8 (8 connections — I/O-bound)



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Temp file size per process

Absolute [MB/GB] and compression ratio (w=1)

d	NO	PGLZ	LZ4	ZSTD	ratio
1	11.4G	8.8G	8.7G	5.6G	49%
10	11.4G	8.8G	8.7G	5.6G	49%
100	11.4G	8.5G	8.5G	5.4G	48%
1000	11.4G	6.7G	6.7G	4.4G	39%

