

Performance Summary (100K vectors)

Metric	HNSW (ef=12)	ZGQ v8 (rf=2)	Winner
Recall@10	86.4%	87.1%	✓ ZGQ
Throughput (QPS)	27,699	32,239	✓ ZGQ
Latency (ms)	3.61	3.10	✓ ZGQ
Build Time (s)	2.09	3.61	✓ HNSW

ZGQ v8 wins 3/4 metrics