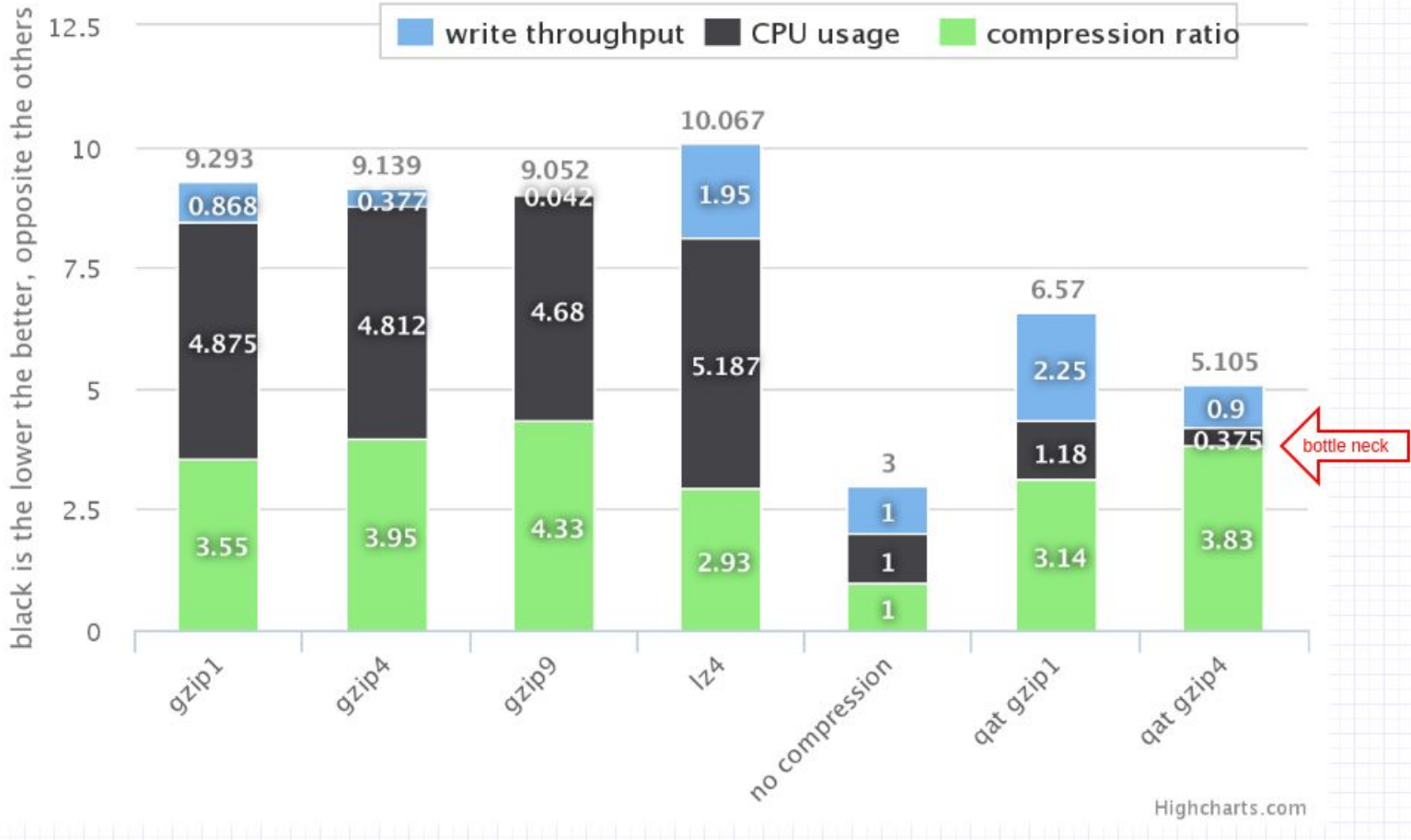






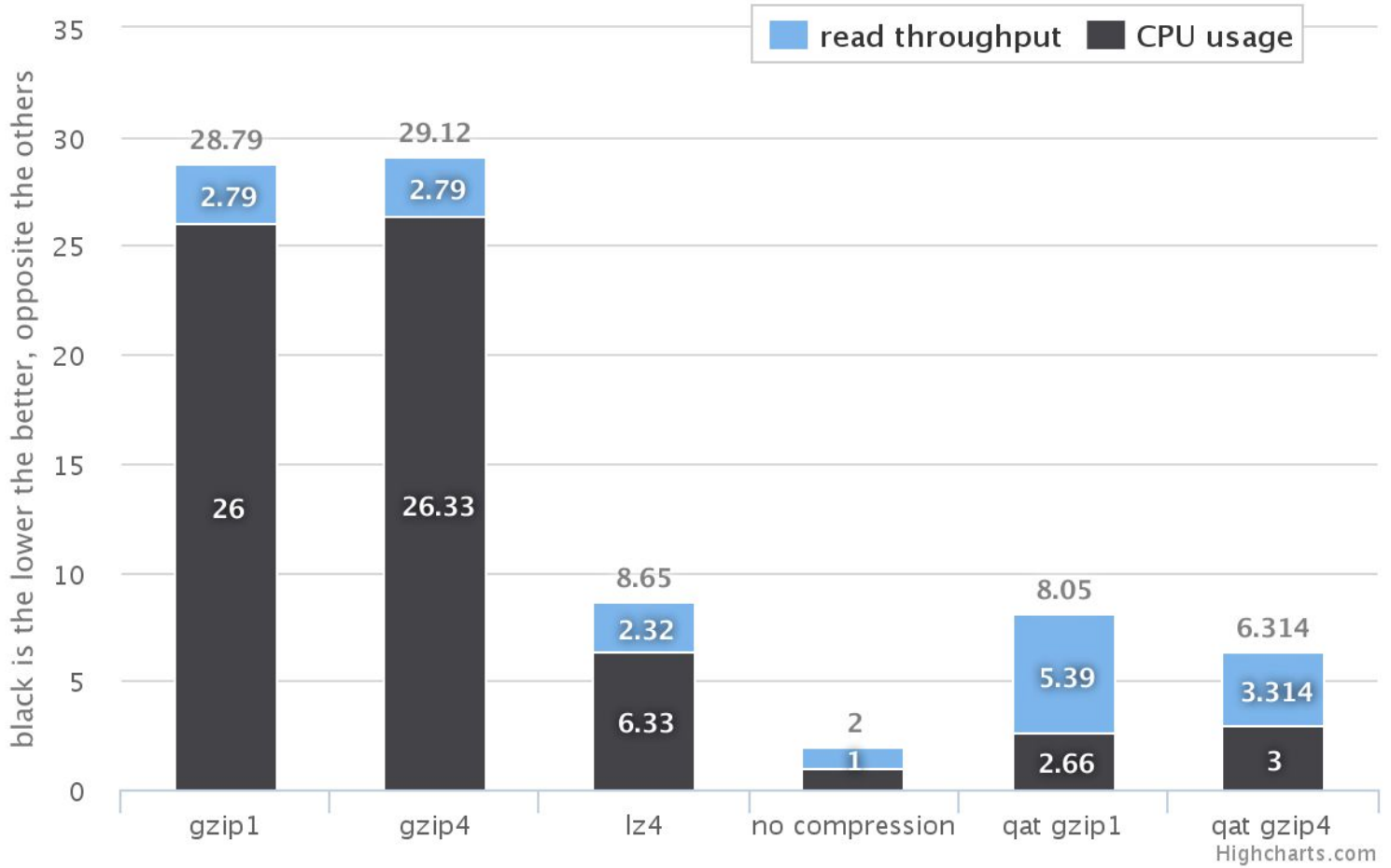
Compare with [Write](#) throughput & cpu usage & compression ratio

32x write, No compression=1



Compare with [Read](#) throughput & cpu usage

32x read, No compression=1

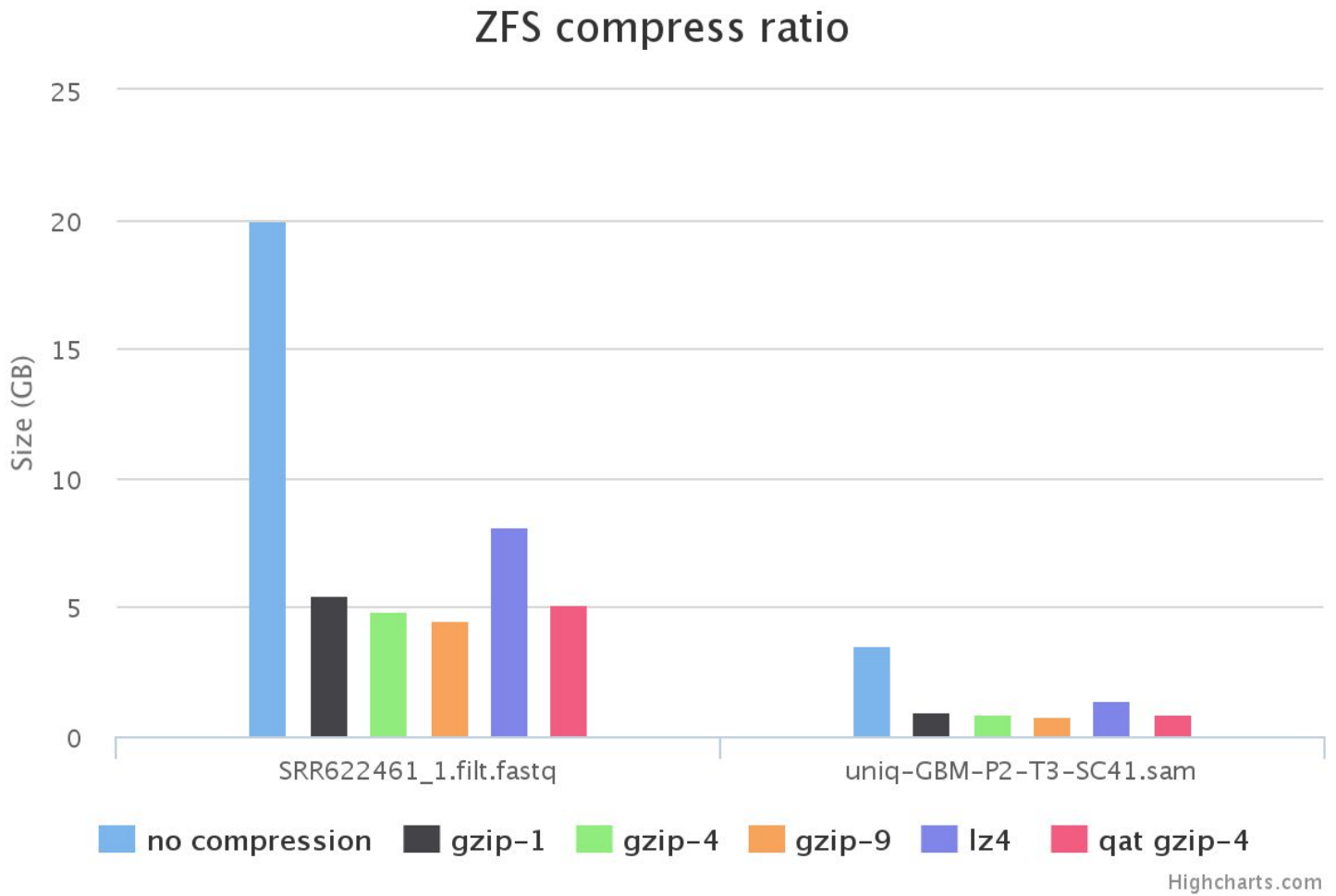








### ZFS compression ratio





## No accelerator

39.38%	[kernel]	[k] longest_match
29.10%	[kernel]	[k] deflate_slow
10.75%	[kernel]	[k] fill_window
10.11%	[kernel]	[k] compress_block
3.58%	[kernel]	[k] zlib_tr_tally
0.76%	[kernel]	[k] copy_user_generic_string
0.64%	[kernel]	[k] copy_user_enhanced_fast_string
0.51%	[kernel]	[k] _spin_lock_irqsave
0.50%	[kernel]	[k] pqdownheap
0.41%	[kernel]	[k] memcpy
0.33%	[kernel]	[k] build_tree
0.24%	[kernel]	[k] fletcher_4_native
0.11%	[kernel]	[k] mutex_lock
0.10%	[kernel]	[k] _spin_lock
0.10%	[kernel]	[k] send_tree
0.08%	[kernel]	[k] taskq_member
0.08%	[kernel]	[k] memset
0.07%	[kernel]	[k] scan_tree

## With accelerator

26.97%	[kernel]	[k] copy_user_generic_string
15.44%	[kernel]	[k] copy_user_enhanced_fast_string
6.87%	[kernel]	[k] _spin_lock_irqsave
5.11%	[kernel]	[k] fletcher_4_native
2.36%	[kernel]	[k] memmove
1.88%	[kernel]	[k] _spin_lock
1.69%	[kernel]	[k] mutex_lock
1.39%	[kernel]	[k] taskq_member
0.80%	[kernel]	[k] mutex_unlock
0.78%	[kernel]	[k] __vmalloc_node
0.76%	[kernel]	[k] list_del
0.72%	[kernel]	[k] schedule
0.70%	[kernel]	[k] remove_vm_area
0.59%	[kernel]	[k] kfree
0.59%	[kernel]	[k] kmem_cache_alloc_node_trace
0.55%	[kernel]	[k] _spin_unlock_irqrestore
0.53%	[kernel]	[k] find_get_page
0.51%	[kernel]	[k] __wake_up_bit
0.48%	[kernel]	[k] kmem_cache_free



