

Performance Report for cbt-11thFeb-alexls21-econ4k-8vol-writesonly-finegrain

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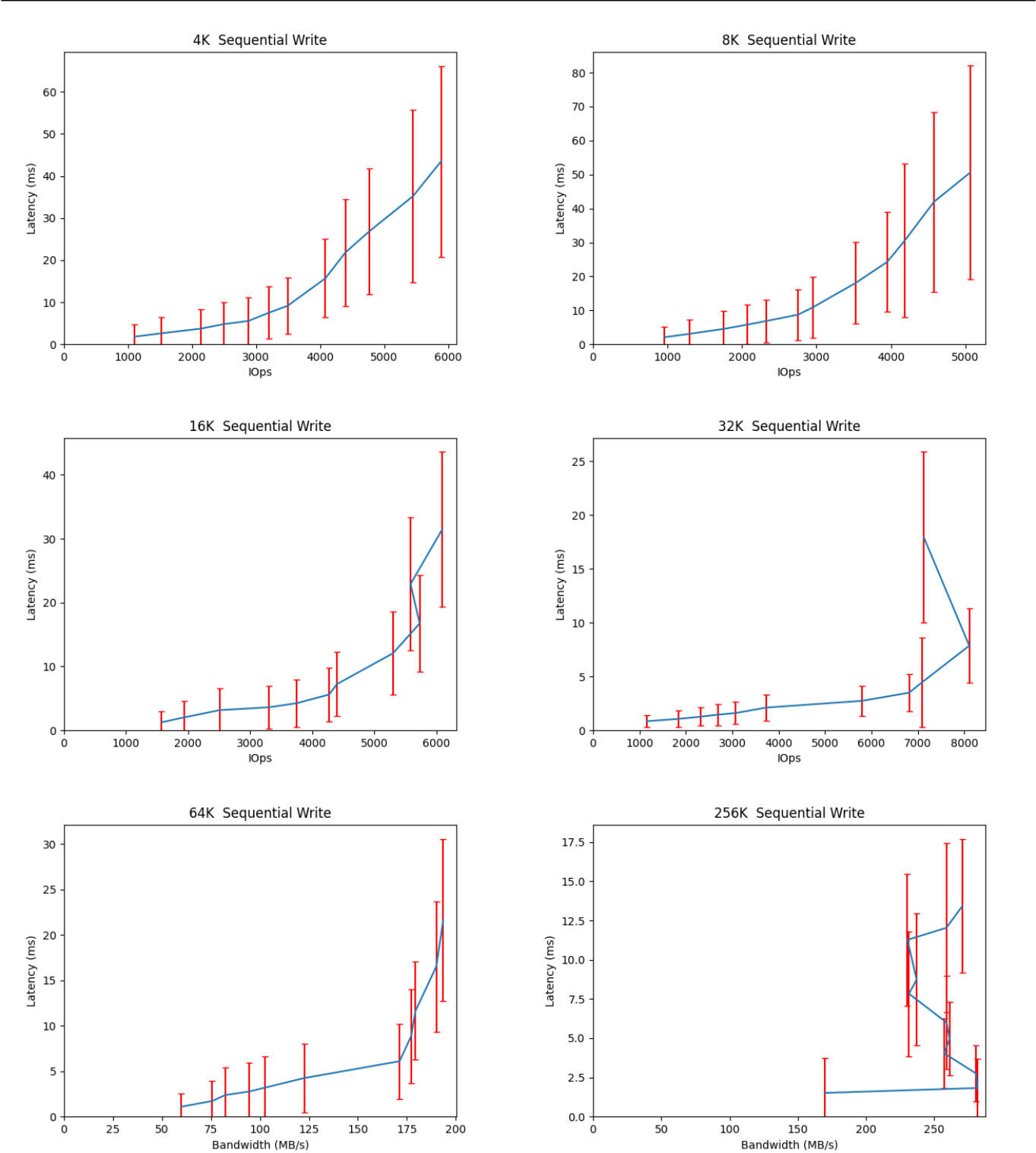
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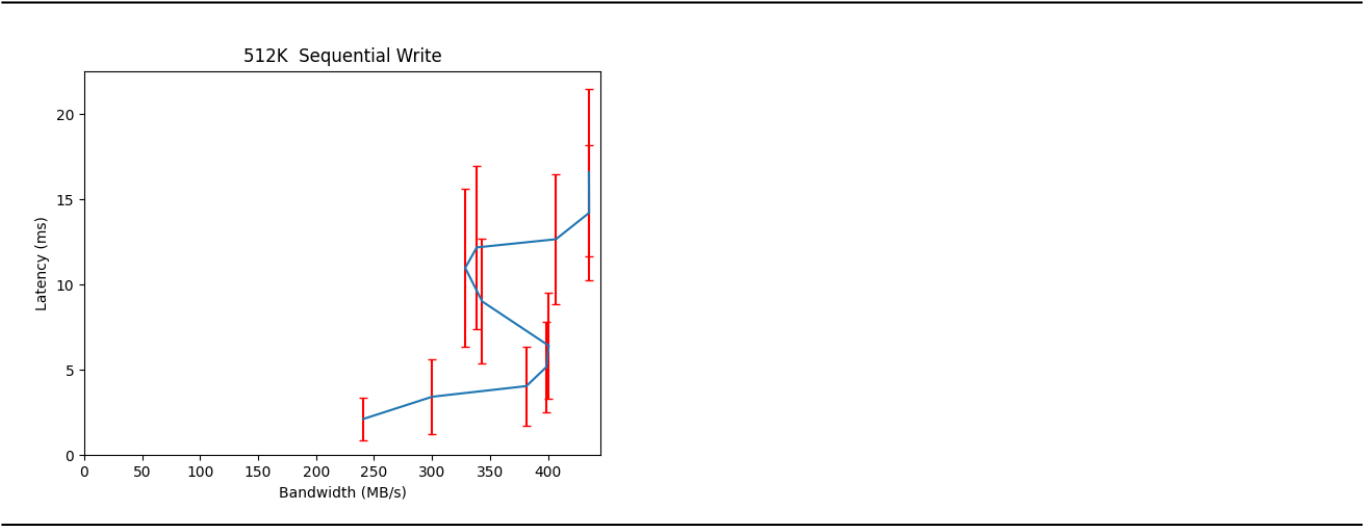
Summary of results for cbt-11thFeb-alexls21-econ4k-8vol-writesonly-finegrain

Workload Name	Maximum Throughput	Latency (ms)
4096B_write	5888 IOps	43.5
8192B_write	5062 IOps	50.6
16384B_write	6095 IOps	31.5
32768B_write	8108 IOps	7.9
65536B_write	194 MB/s	21.6
262144B_write	282 MB/s	1.8
524288B_write	436 MB/s	14.2
4096B_randwrite	4229 IOps	30.3
8192B_randwrite	4490 IOps	28.5
16384B_randwrite	4487 IOps	14.2
32768B_randwrite	3068 IOps	20.8
65536B_randwrite	165 MB/s	50.8
262144B_randwrite	395 MB/s	10.5
524288B_randwrite	445 MB/s	46.9
16384B_70_30_randrw	5882 IOps	21.7

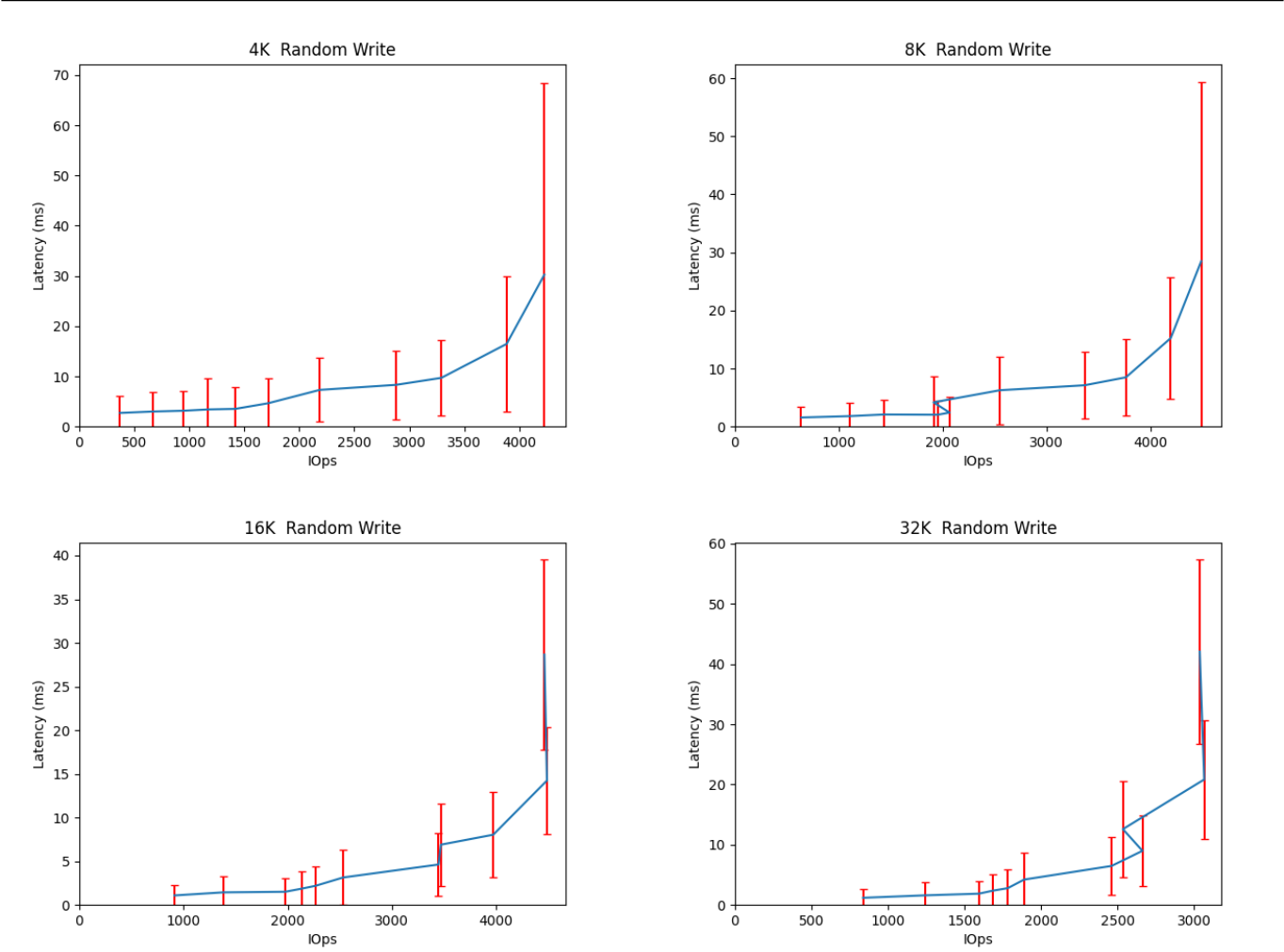
Response Curves

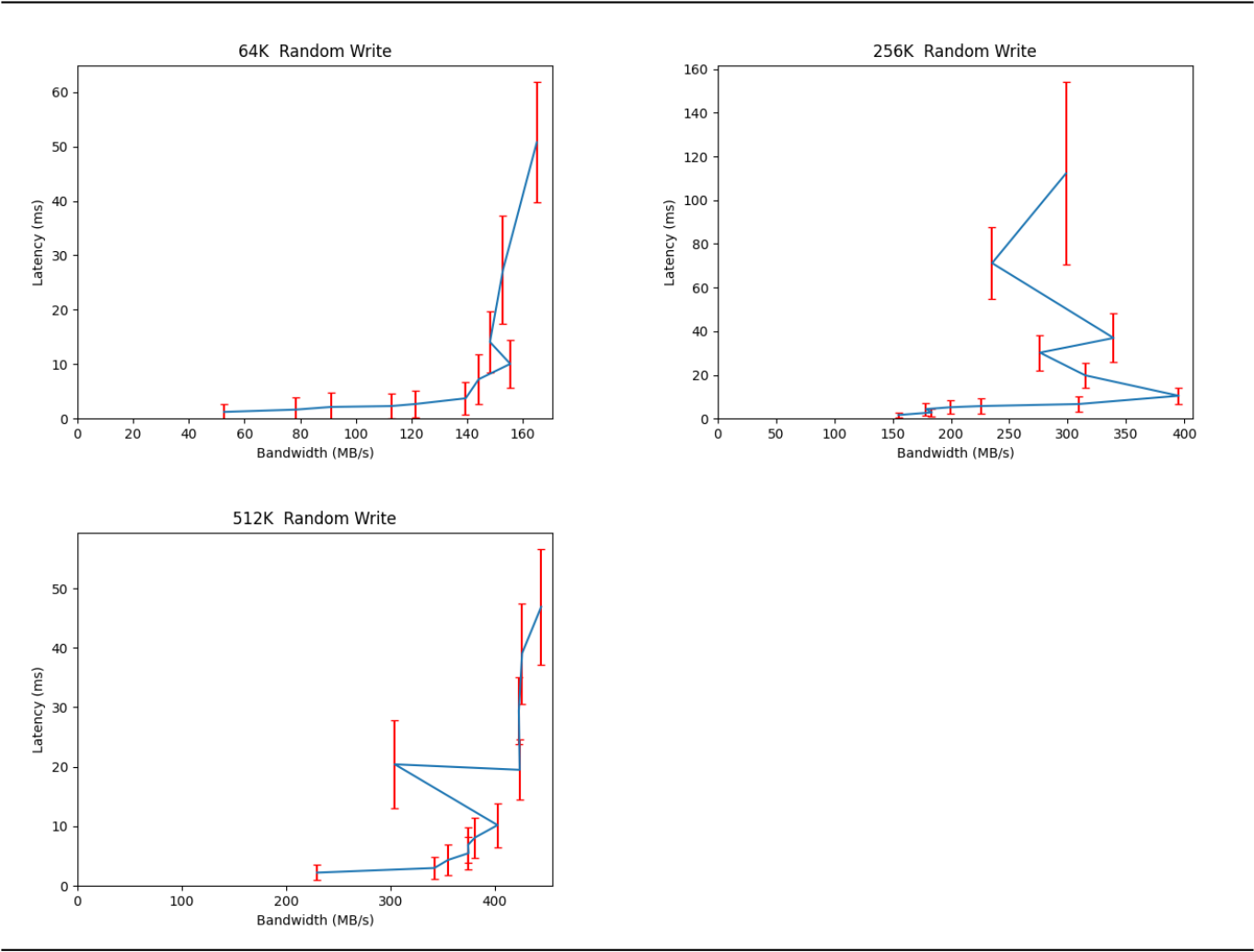
Sequential Write



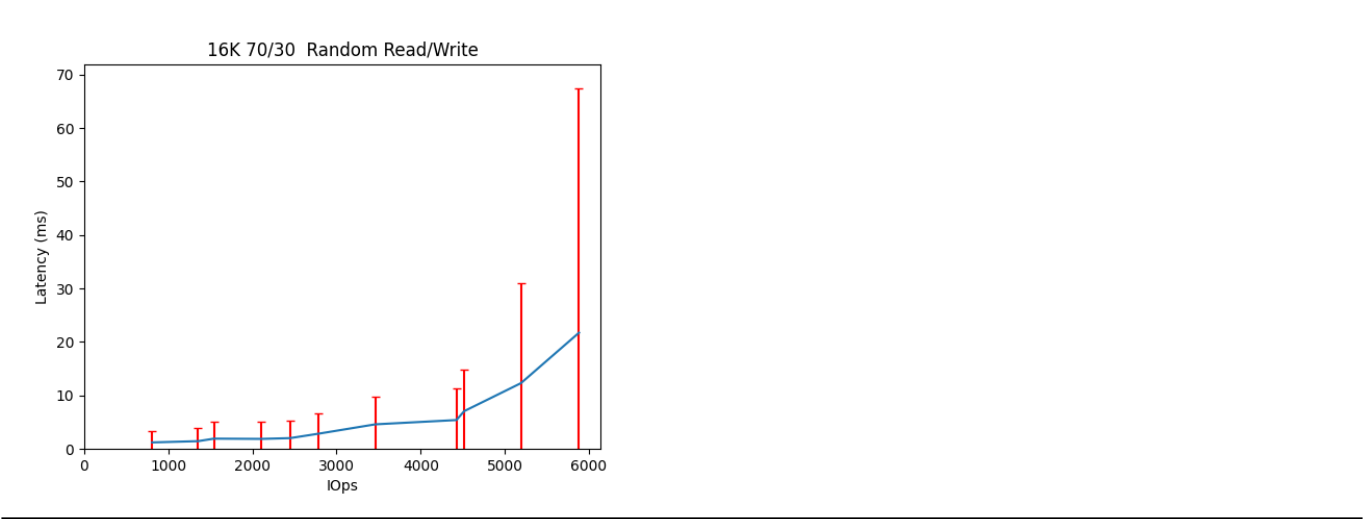


Random Write





Random Read/Write



Configuration yaml

```

librbd fio:
  cmd_path: /usr/local/bin/fio
  fio_out_format: json
  log_avg_msec: 100
  log_bw: true
  log_iops: true
  log_lat: true
  norandommap: true
  osd_ra:
    - 4096
  poolname: rbd_replicated
  precondition_time: 600
  prefill:
    blocksize: 64k
    numjobs: 1
  procs_per_volume:
    - 1
  ramp: 30
  time: 90
  time_based: true
  use_existing_volumes: true
  vol_size: 52500
  volumes_per_client:
    - 8
  workloads:
    16k7030:
      jobname: randmix
      mode: randrw
      numjobs:
        - 1
      op_size: 16384
      rwmixread: 70
      total_iodepth:
        - 1
        - 2
        - 3
        - 4
        - 5
        - 8
        - 16
        - 24
        - 32
        - 64
        - 128
    16krandomwrite:
      jobname: randwrite
      mode: randwrite
      numjobs:
        - 1
      op_size: 16384
      total_iodepth:

```

```

- 1
- 2
- 3
- 4
- 5
- 8
- 16
- 24
- 32
- 64
- 128
256krandomwrite:
  jobname: randwrite
  mode: randwrite
  numjobs:
    - 1
  op_size: 262144
  total_iodepth:
    - 1
    - 2
    - 3
    - 4
    - 5
    - 8
    - 16
    - 24
    - 32
    - 48
    - 64
    - 128
32krandomwrite:
  jobname: randwrite
  mode: randwrite
  numjobs:
    - 1
  op_size: 32768
  total_iodepth:
    - 1
    - 2
    - 3
    - 4
    - 5
    - 8
    - 16
    - 24
    - 32
    - 64
    - 128
4krandomwrite:
  jobname: randwrite
  mode: randwrite
  numjobs:
    - 1
  op_size: 4096
  total_iodepth:
    - 1
    - 2
    - 3
    - 4
    - 5
    - 8
    - 16
    - 24

```



```

- 32
- 64
- 128
512krandomwrite:
  jobname: randwrite
  mode: randwrite
  numjobs:
    - 1
  op_size: 524288
  total_iodepth:
    - 1
    - 2
    - 3
    - 4
    - 5
    - 6
    - 8
    - 12
    - 16
    - 24
    - 32
    - 40
512kseqwrite:
  jobname: seqwrite
  mode: write
  numjobs:
    - 1
  op_size: 524288
  total_iodepth:
    - 1
    - 2
    - 3
    - 4
    - 5
    - 6
    - 7
    - 8
    - 10
    - 12
    - 14
64krandomwrite:
  jobname: randwrite
  mode: randwrite
  numjobs:
    - 1
  op_size: 65536
  total_iodepth:
    - 1
    - 2
    - 3
    - 4
    - 5
    - 8
    - 16
    - 24
    - 32
    - 64
    - 128
64kseqwrite:
  jobname: write
  mode: write
  numjobs:
    - 1

```

```

    op_size: 65536
    total_iodepth:
      - 1
      - 2
      - 3
      - 4
      - 5
      - 8
      - 16
      - 24
      - 32
      - 48
      - 64
  8krandomwrite:
    jobname: randwrite
    mode: randwrite
    numjobs:
      - 1
    op_size: 8192
    total_iodepth:
      - 1
      - 2
      - 3
      - 4
      - 5
      - 8
      - 16
      - 24
      - 32
      - 64
      - 128
  precondition:
    jobname: precond1rw
    mode: randwrite
    monitor: false
    numjobs:
      - 1
    op_size: 65536
    precondition: true
    total_iodepth:
      - 16
  seq16kwrite:
    jobname: seqwrite
    mode: write
    numjobs:
      - 1
    op_size: 16384
    total_iodepth:
      - 2
      - 4
      - 8
      - 12
      - 16
      - 24
      - 32
      - 64
      - 96
      - 128
      - 192
  seq256kwrite:
    jobname: seqwrite
    mode: write
    numjobs:

```

```

- 1
  op_size: 262144
  total_iodepth:
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 10
- 12
- 14
seq32kwrite:
  jobname: seqwrite
  mode: write
  numjobs:
- 1
  op_size: 32768
  total_iodepth:
- 1
- 2
- 3
- 4
- 5
- 8
- 16
- 24
- 32
- 64
- 128
seq4kwrite:
  jobname: seqwrite
  mode: write
  numjobs:
- 1
  op_size: 4096
  total_iodepth:
- 2
- 4
- 8
- 12
- 16
- 24
- 32
- 64
- 96
- 128
- 192
- 256
seq8kwrite:
  jobname: seqwrite
  mode: write
  numjobs:
- 1
  op_size: 8192
  total_iodepth:
- 2
- 4
- 8
- 12
- 16

```

```

- 24
- 32
- 64
- 96
- 128
- 192
- 256
cluster:
  archive_dir: /tmp/cbt
  ceph-mgr_cmd: /usr/bin/ceph-mgr
  ceph-mon_cmd: /usr/bin/ceph-mon
  ceph-osd_cmd: /usr/bin/ceph-osd
  ceph-run_cmd: /usr/bin/ceph-run
  ceph_cmd: /usr/bin/ceph
  clients:
    - --- server1 ---
  clusterid: ceph
  conf_file: /cbt/ceph.conf.4x1x1.fs
  fs: xfs
  head: --- server1 ---
  iterations: 1
  mgrs:
    --- server1 ---:
      a: null
  mkfs_opts: -f -i size=2048
  mons:
    --- server1 ---:
      a: --- IP Address --:6789
  mount_opts: -o inode64,noatime,logbsize=256k
  osds:
    - --- server1 ---
  osds_per_node: 6
  pdsh_ssh_args: -a -x -l%u %h
  rados_cmd: /usr/bin/rados
  rbd_cmd: /usr/bin/rbd
  tmp_dir: /tmp/cbt
  use_existing: true
  user: root
  monitoring_profiles:
    collectl:
      args: -c 18 -sCD -i 10 -P -oz -F0 --rawtoo --sep ";" -f {collectl_dir}

```