

Performance Report for cbt-28thJan-alexls17-econ-4k-8vol-reverse-3min

Table of contents

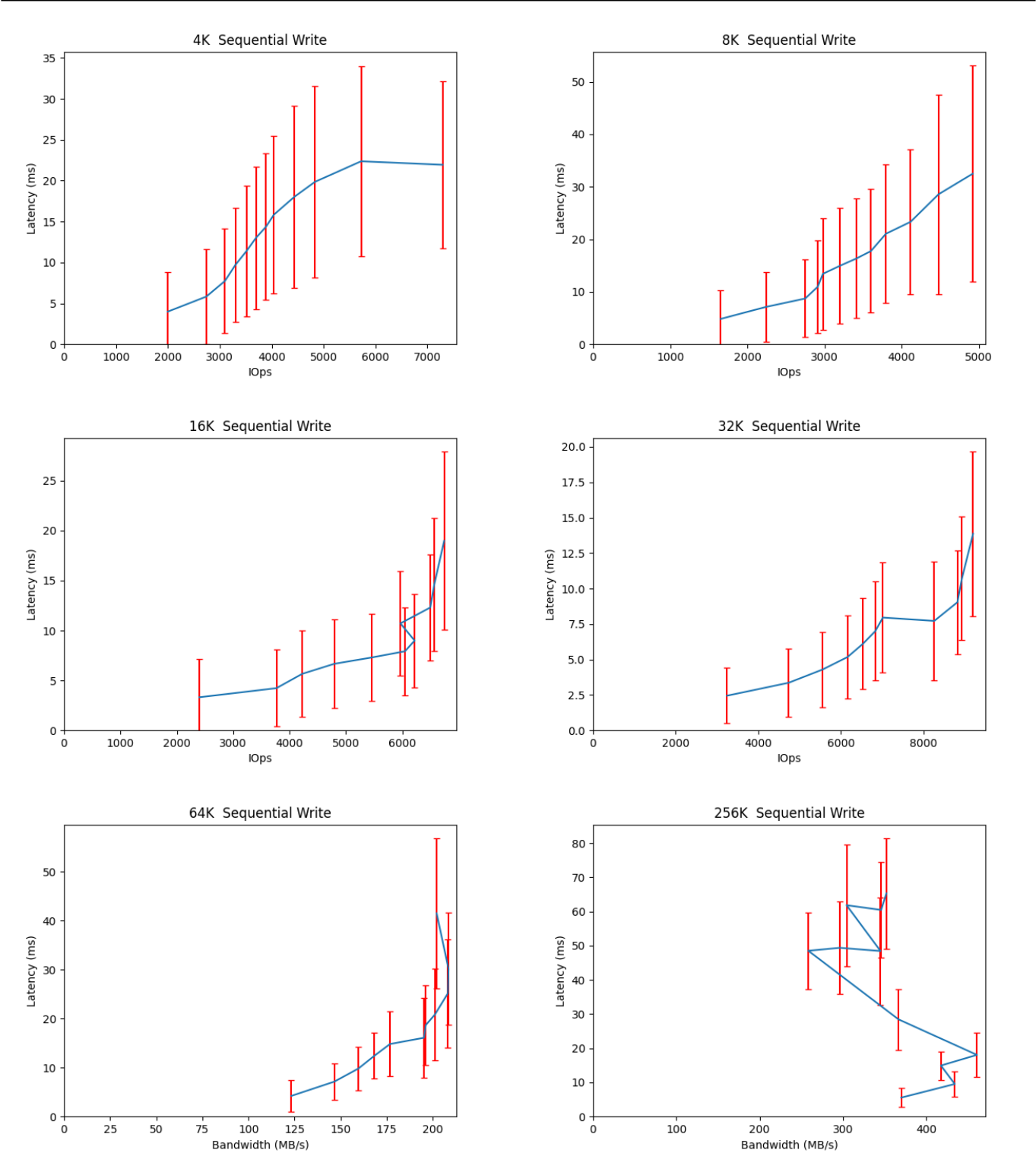
- Summary of results for cbt-28thJan-alexsl17-econ-4k-8vol-reverse-3min
- Response Curves
 - Sequential Write
 - Random Write
 - Random Read/Write
- Configuration yaml

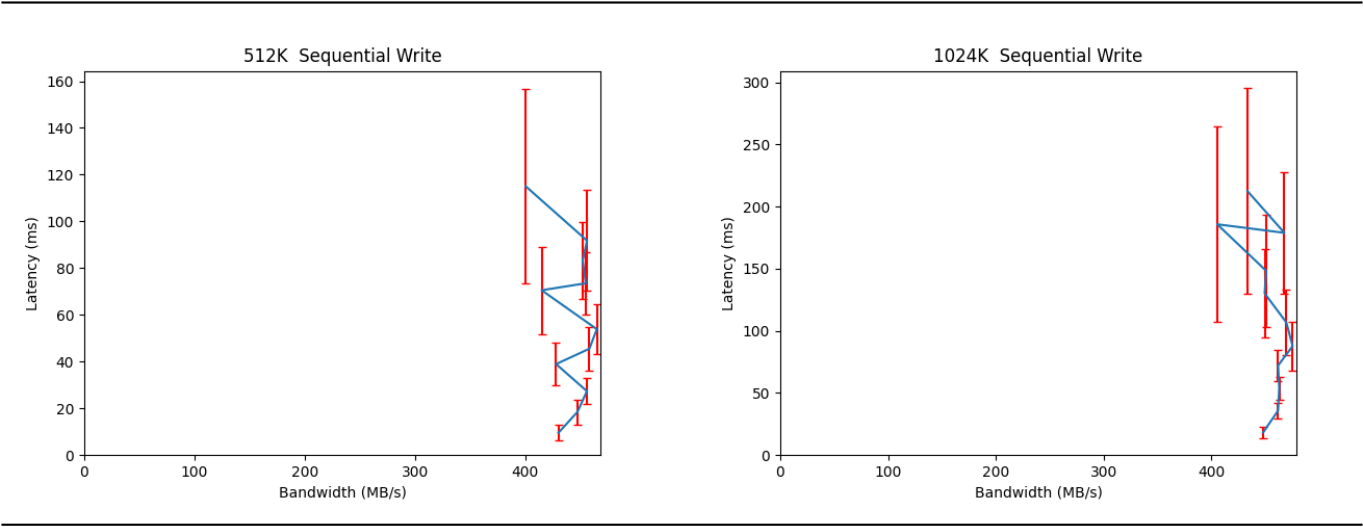
Summary of results for cbt-28thJan-alexls17-econ-4k-8vol-reverse-3min

Workload Name	Maximum Throughput	Latency (ms)
4096B_write	7292 IOps	21.9
8192B_write	4923 IOps	32.5
16384B_write	6740 IOps	19.0
32768B_write	9196 IOps	13.9
65536B_write	208 MB/s	30.1
262144B_write	461 MB/s	18.1
524288B_write	465 MB/s	53.9
1048576B_write	475 MB/s	87.7
4096B_randwrite	3296 IOps	38.8
8192B_randwrite	3734 IOps	34.3
16384B_randwrite	4827 IOps	13.2
32768B_randwrite	3579 IOps	26.8
65536B_randwrite	240 MB/s	10.8
262144B_randwrite	421 MB/s	14.8
524288B_randwrite	466 MB/s	80.8
1048576B_randwrite	472 MB/s	177.5
16384B_70_30_randrw	5639 IOps	14.2
65536B_30_70_randrw	245 MB/s	17.1
65536B_70_30_randrw	282 MB/s	20.5

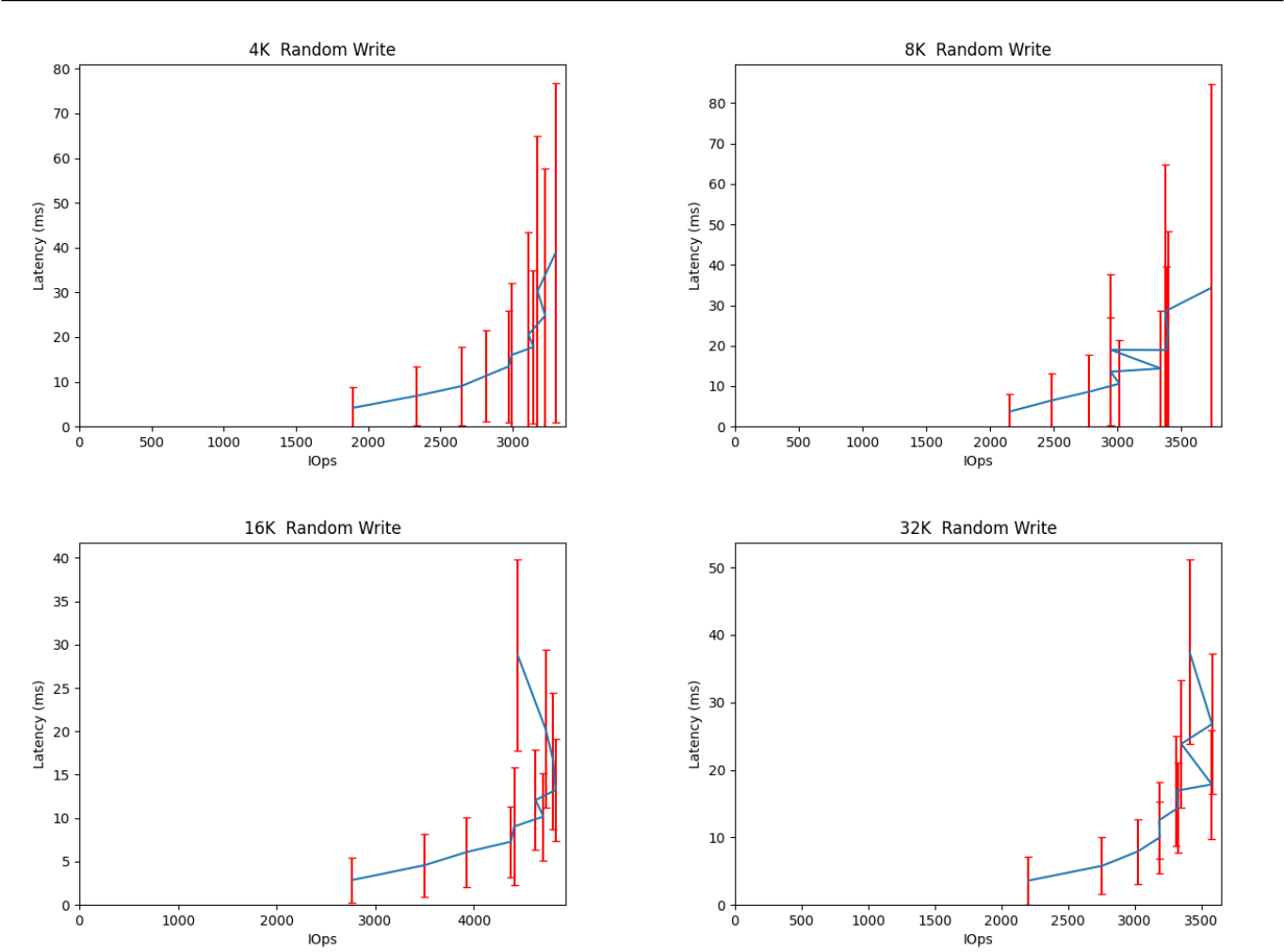
Response Curves

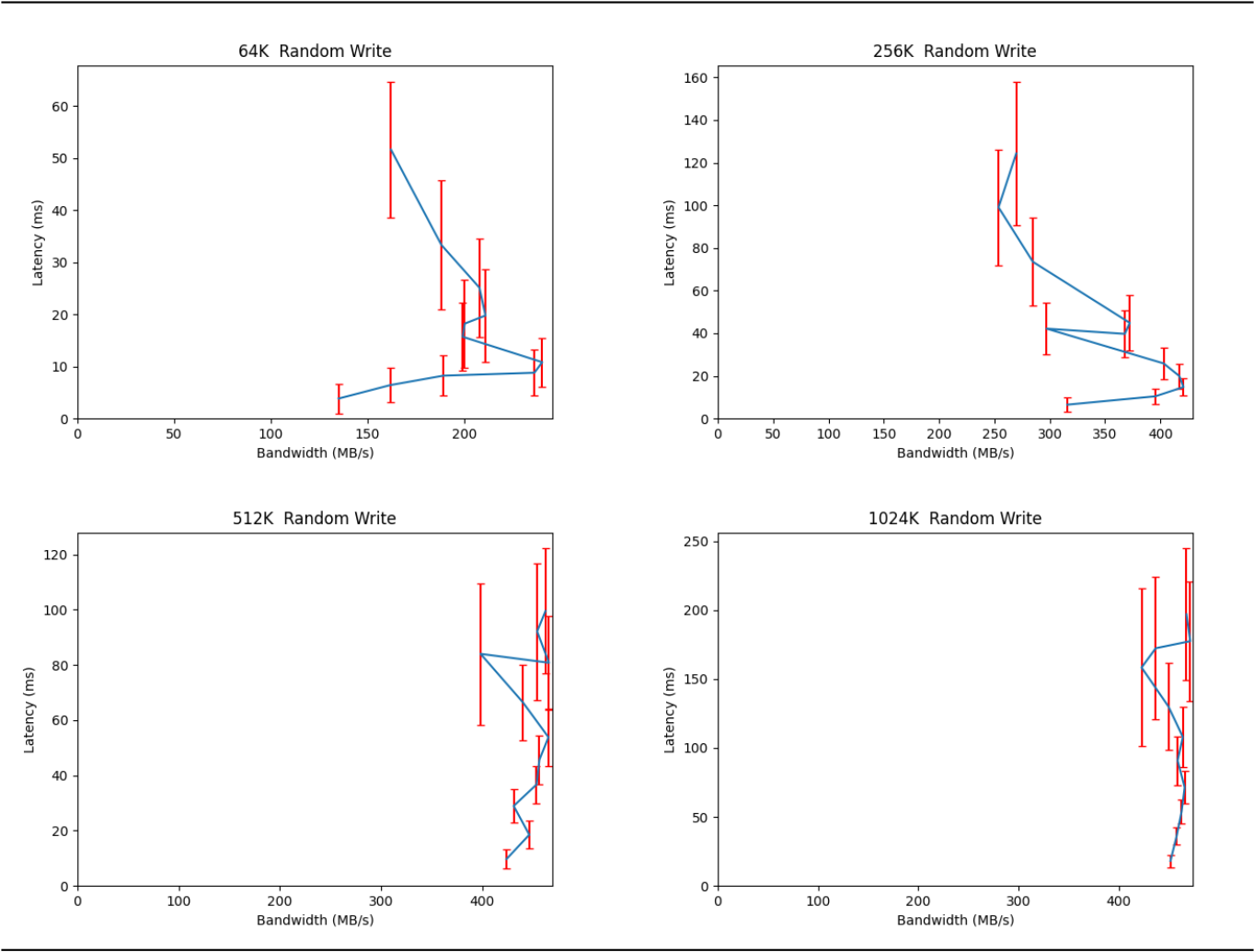
Sequential Write



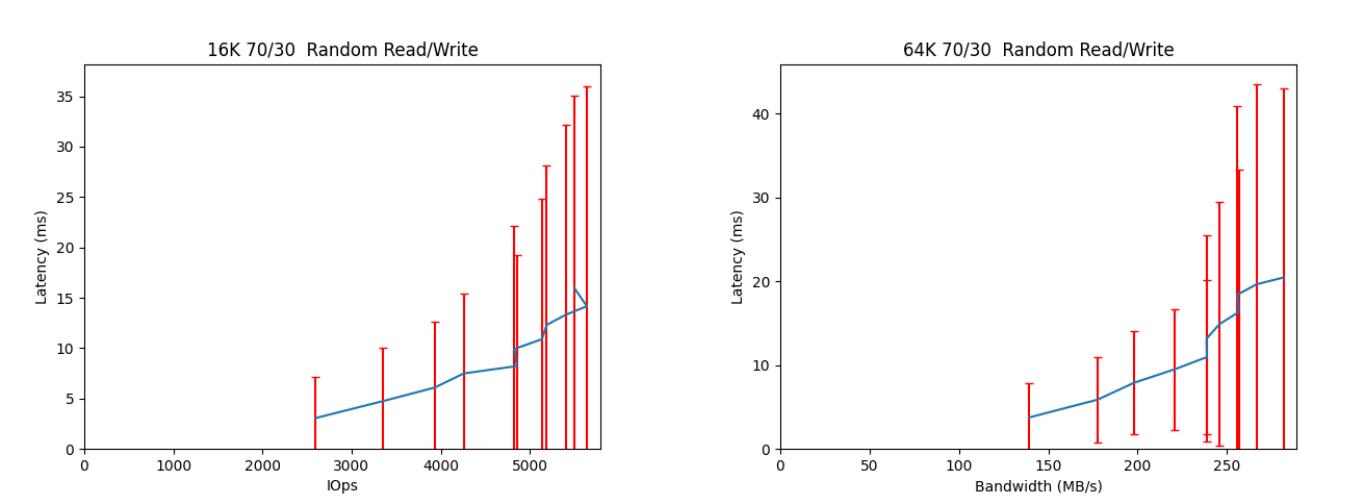


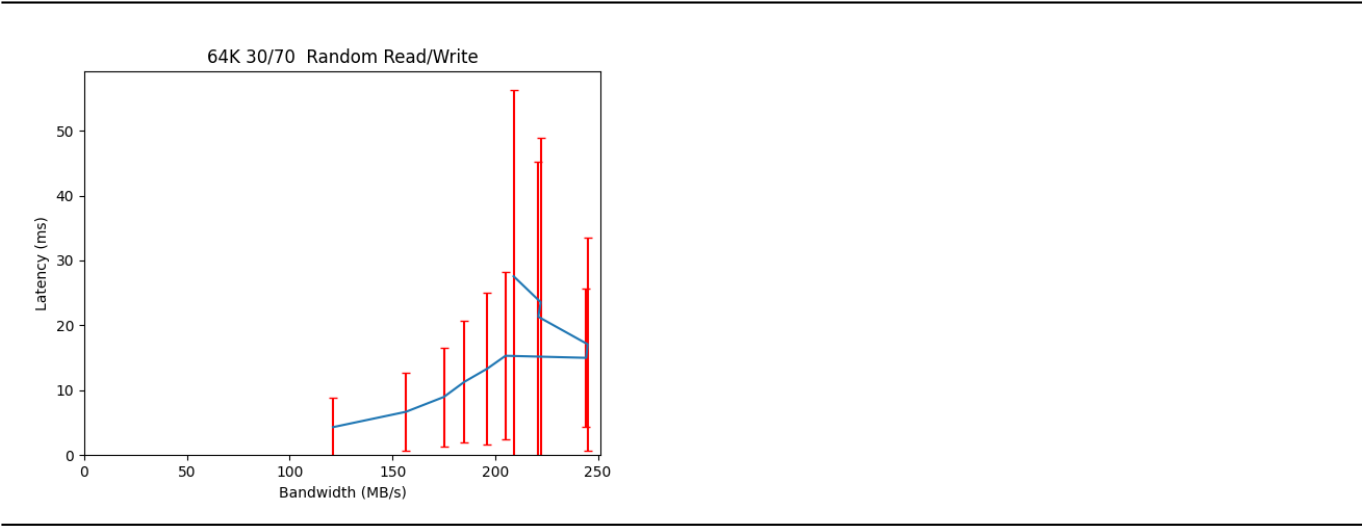
Random Write





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: 180
  time_based: true
  use_existing_volumes: true
  vol_size: 52500
  volumes_per_client:
    - 8
  workloads:
    16k7030:
      iodepth:
        - 11
        - 10
        - 9
        - 8
        - 7
        - 6
        - 5
        - 4
        - 3
        - 2
        - 1
      jobname: randmix
      mode: randrw
      numjobs:
        - 1
      op_size: 16384
      rwmixread: 70
    16krandomwrite:
      iodepth:
        - 16
        - 12
        - 10
        - 8
        - 7

```



```

- 6
- 5
- 4
- 3
- 2
- 1
  jobname: randwrite
  mode: randwrite
  numjobs:
    - 1
  op_size: 16384
1Mrandomwrite:
  iodepth:
    - 11
    - 10
    - 9
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: randwrite
  mode: randwrite
  numjobs:
    - 1
  op_size: 1048576
1Mseqwrite:
  iodepth:
    - 11
    - 10
    - 9
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: seqwrite
  mode: write
  numjobs:
    - 1
  op_size: 1048576
256krandomwrite:
  iodepth:
    - 16
    - 12
    - 10
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: randwrite
  mode: randwrite
  numjobs:

```

```

- 1
  op_size: 262144
32krandomwrite:
  iodepth:
  - 16
  - 12
  - 10
  - 8
  - 7
  - 6
  - 5
  - 4
  - 3
  - 2
  - 1
  jobname: randwrite
  mode: randwrite
  numjobs:
  - 1
  op_size: 32768
4krandomwrite:
  iodepth:
  - 16
  - 12
  - 10
  - 8
  - 7
  - 6
  - 5
  - 4
  - 3
  - 2
  - 1
  jobname: randwrite
  mode: randwrite
  numjobs:
  - 1
  op_size: 4096
512krandomwrite:
  iodepth:
  - 11
  - 10
  - 9
  - 8
  - 7
  - 6
  - 5
  - 4
  - 3
  - 2
  - 1
  jobname: randwrite
  mode: randwrite
  numjobs:
  - 1
  op_size: 524288
512kseqwrite:
  iodepth:
  - 11
  - 10
  - 9
  - 8
  - 7

```

```

- 6
- 5
- 4
- 3
- 2
- 1
  jobname: seqwrite
  mode: write
  numjobs:
    - 1
  op_size: 524288
64k3070:
  iodepth:
    - 11
    - 10
    - 9
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: randmix
  mode: randrw
  numjobs:
    - 1
  op_size: 65536
  rwmixread: 30
64k7030:
  iodepth:
    - 11
    - 10
    - 9
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: randmix
  mode: randrw
  numjobs:
    - 1
  op_size: 65536
  rwmixread: 70
64krandomwrite:
  iodepth:
    - 16
    - 12
    - 10
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: randwrite

```

```

    mode: randwrite
    numjobs:
      - 1
    op_size: 65536
  64kseqwrite:
    iodepth:
      - 16
      - 12
      - 10
      - 8
      - 7
      - 6
      - 5
      - 4
      - 3
      - 2
      - 1
    jobname: write
    mode: write
    numjobs:
      - 1
    op_size: 65536
  8krandomwrite:
    iodepth:
      - 16
      - 12
      - 10
      - 8
      - 7
      - 6
      - 5
      - 4
      - 3
      - 2
      - 1
    jobname: randwrite
    mode: randwrite
    numjobs:
      - 1
    op_size: 8192
  precondition:
    iodepth:
      - 2
    jobname: precond1rw
    mode: randwrite
    monitor: false
    numjobs:
      - 1
    op_size: 65536
    precondition: true
  seq16kwrite:
    iodepth:
      - 16
      - 12
      - 10
      - 8
      - 7
      - 6
      - 5
      - 4
      - 3
      - 2
      - 1

```

```

    jobname: seqwrite
    mode: write
    numjobs:
      - 1
    op_size: 16384
  seq256kwrite:
    iodepth:
      - 11
      - 10
      - 9
      - 8
      - 7
      - 6
      - 5
      - 4
      - 3
      - 2
      - 1
    jobname: seqwrite
    mode: write
    numjobs:
      - 1
    op_size: 262144
  seq32kwrite:
    iodepth:
      - 16
      - 12
      - 10
      - 8
      - 7
      - 6
      - 5
      - 4
      - 3
      - 2
      - 1
    jobname: seqwrite
    mode: write
    numjobs:
      - 1
    op_size: 32768
  seq4kwrite:
    iodepth:
      - 20
      - 16
      - 12
      - 10
      - 8
      - 7
      - 6
      - 5
      - 4
      - 3
      - 2
      - 1
    jobname: seqwrite
    mode: write
    numjobs:
      - 1
    op_size: 4096
  seq8kwrite:
    iodepth:
      - 20

```

```

- 16
- 12
- 10
- 8
- 7
- 6
- 5
- 4
- 3
- 2
- 1
  jobname: seqwrite
  mode: write
  numjobs:
    - 1
  op_size: 8192
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}

```