

Comparitive Performance Report for cbt-25thJan-alexls17-econ-4k-8vol-reverse vs cbt-28thJan-alexls17-econ-4k-8vol- reverse-3min

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Comparison summary for cbt-25thJan-alexsls17-econ-4k-8vol-reverse vs cbt-28thJan-alexsls17-econ-4k-8vol- reverse-3min

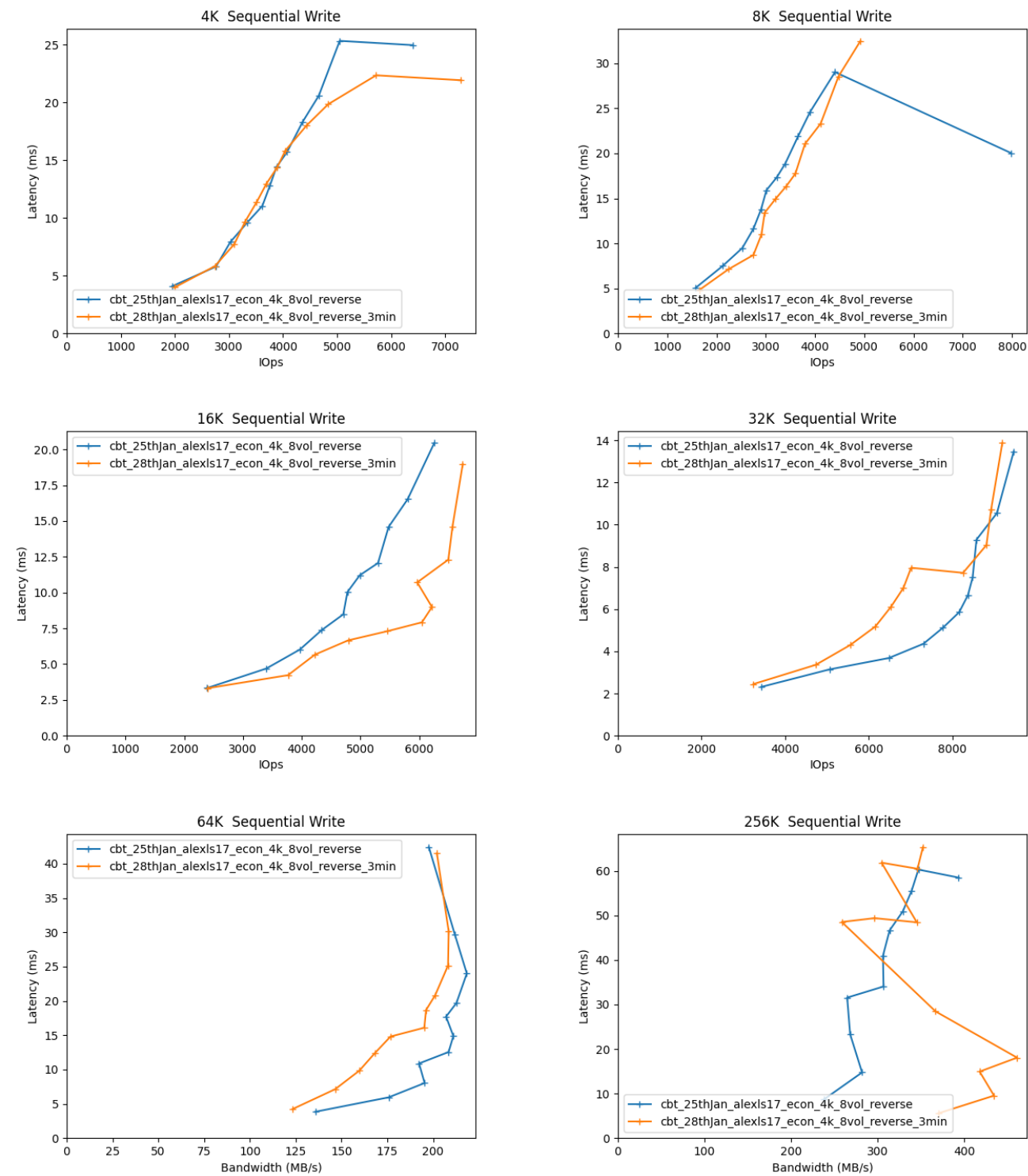
Sequential Write	cbt_25thJan_alexsls17_econ-4k-8vol-reverse	cbt_28thJan_alexsls17_econ-4k-8vol-reverse-3min	%change throughput	%change latency
4K	6403 IOps@25.0ms	7292 IOps@21.9ms	14%	-12%
8K	7979 IOps@20.0ms	4923 IOps@32.5ms	-38%	62%
16K	6256 IOps@20.4ms	6740 IOps@19.0ms	8%	-7%
32K	9468 IOps@13.5ms	9196 IOps@13.9ms	-3%	3%
64K	218 MB/s@24.0ms	208 MB/s@30.1ms	-5%	25%
256K	394 MB/s@58.5ms	461 MB/s@18.1ms	17%	-69%
512K	458 MB/s@82.2ms	465 MB/s@53.9ms	2%	-34%
1024K	477 MB/s@158.0ms	475 MB/s@87.7ms	-0%	-44%

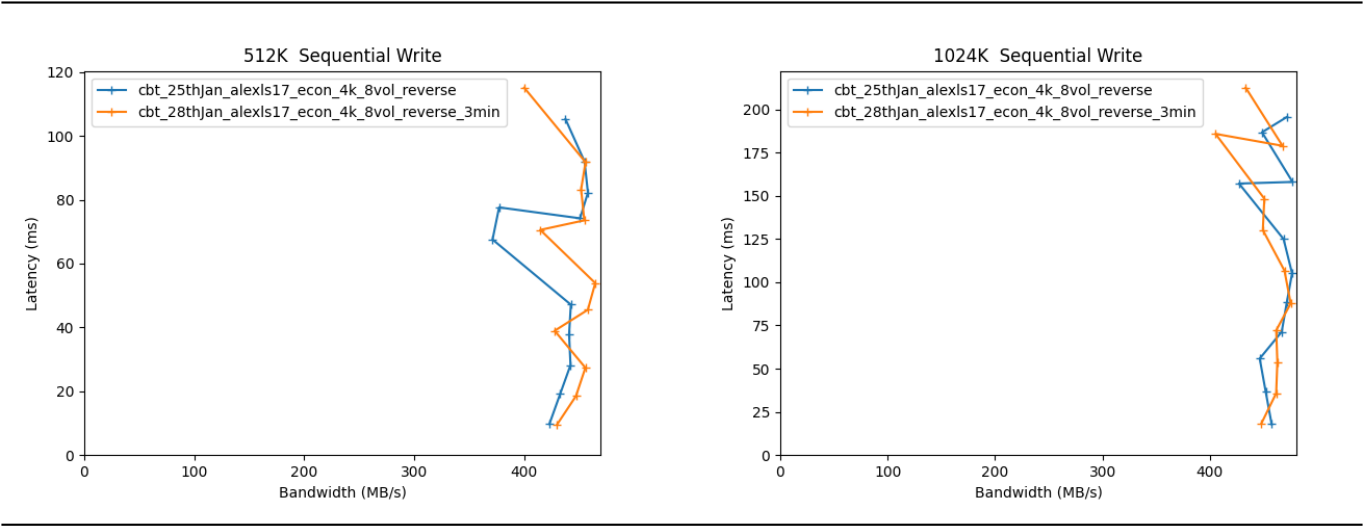
Random Write	cbt_25thJan_alexsls17_econ-4k-8vol-reverse	cbt_28thJan_alexsls17_econ-4k-8vol-reverse-3min	%change throughput	%change latency
4K	5448 IOps@11.7ms	3296 IOps@38.8ms	-40%	232%
8K	5182 IOps@15.4ms	3734 IOps@34.3ms	-28%	123%
16K	5227 IOps@18.3ms	4827 IOps@13.2ms	-8%	-28%
32K	3676 IOps@26.1ms	3579 IOps@26.8ms	-3%	3%
64K	184 MB/s@45.4ms	240 MB/s@10.8ms	30%	-76%
256K	394 MB/s@15.8ms	421 MB/s@14.8ms	7%	-6%
512K	464 MB/s@99.1ms	466 MB/s@80.8ms	0%	-18%
1024K	477 MB/s@193.5ms	472 MB/s@177.5ms	-1%	-8%

Random Read/Write	cbt_25thJan_alexsls17_econ-4k-8vol-reverse	cbt_28thJan_alexsls17_econ-4k-8vol-reverse-3min	%change throughput	%change latency
16K_70/30	7935 IOps@8.1ms	5639 IOps@14.2ms	-29%	75%
64K_70/30	295 MB/s@16.0ms	282 MB/s@20.5ms	-4%	28%
64K_30/70	233 MB/s@13.5ms	245 MB/s@17.1ms	5%	27%

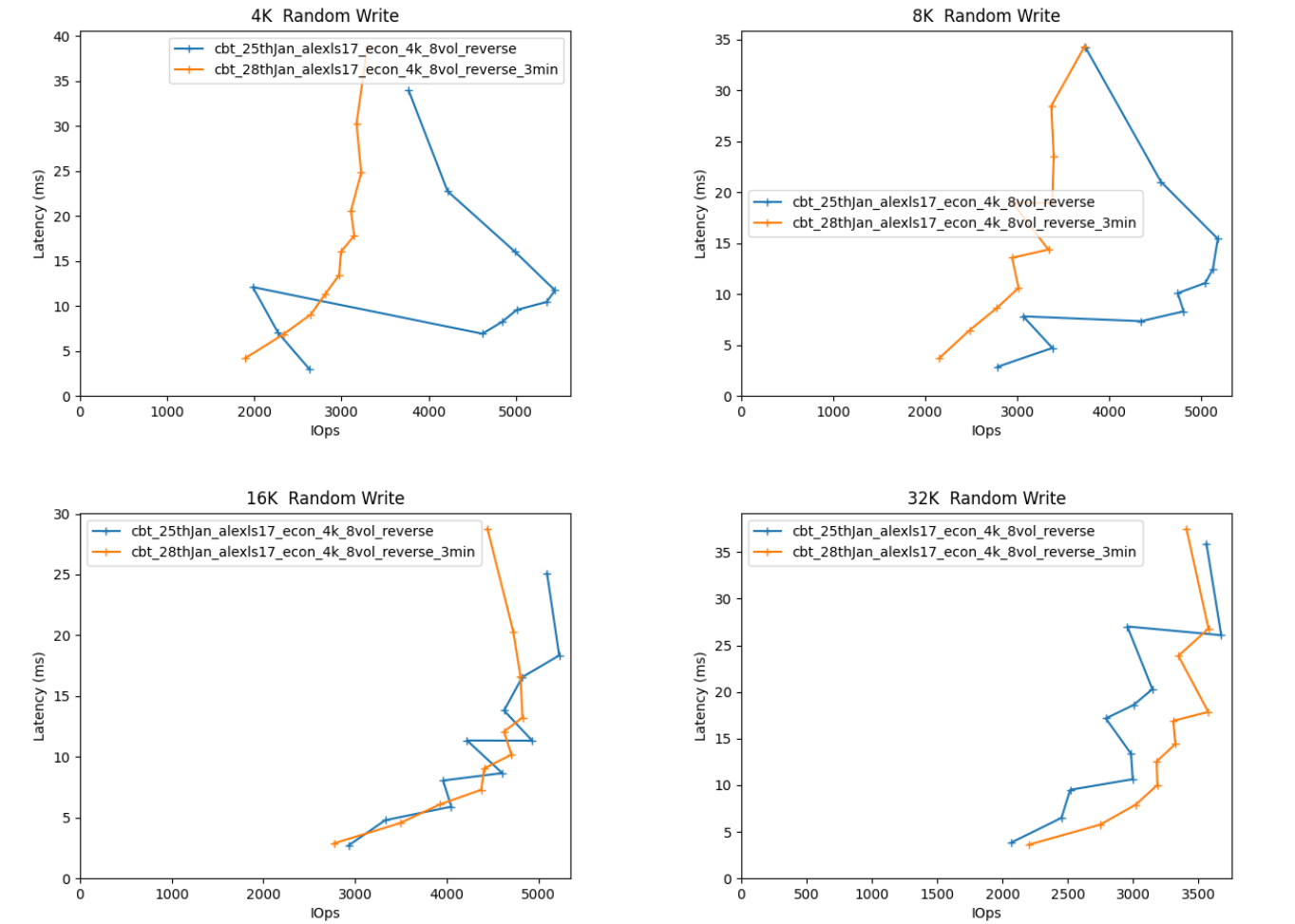
Response Curves

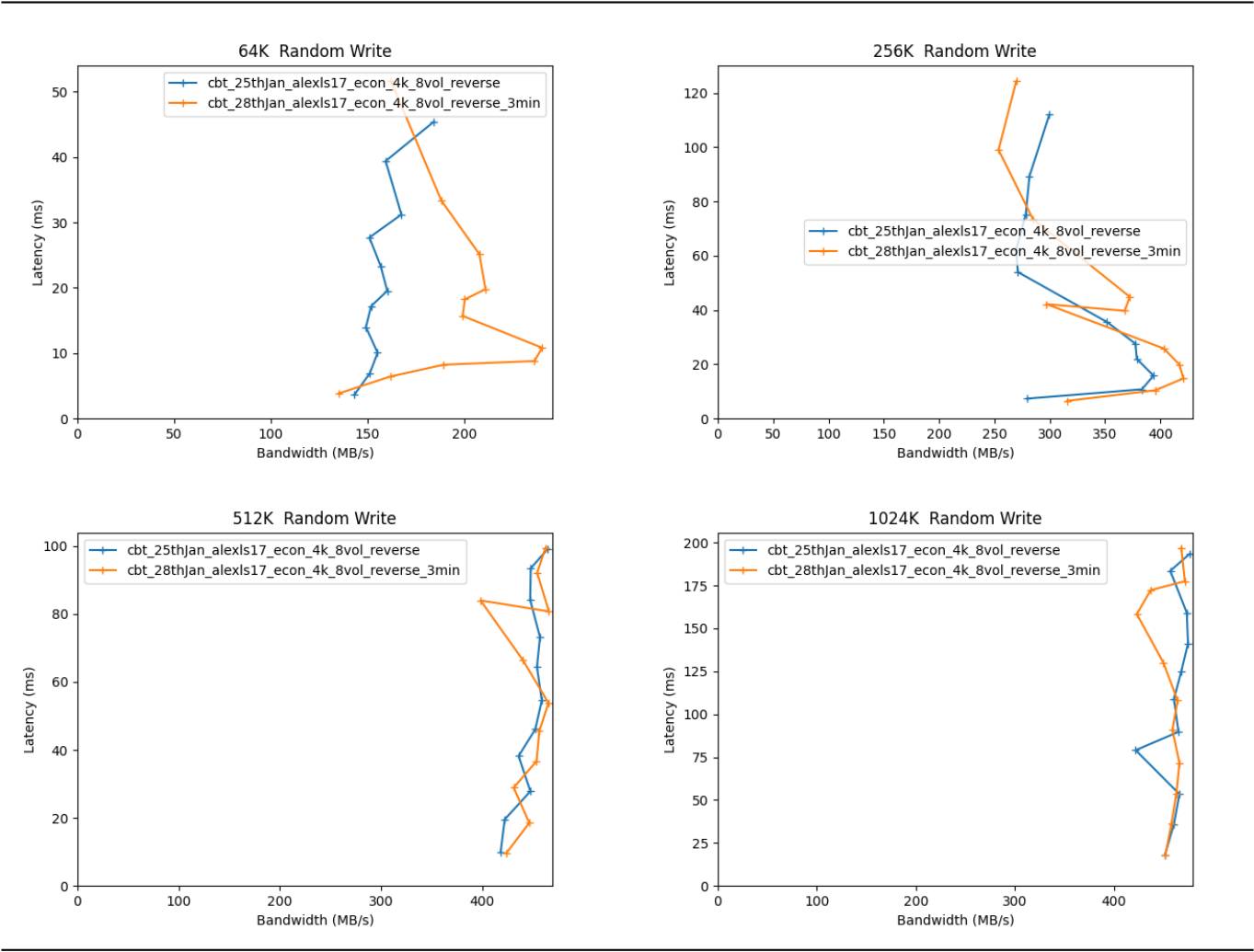
Sequential Write



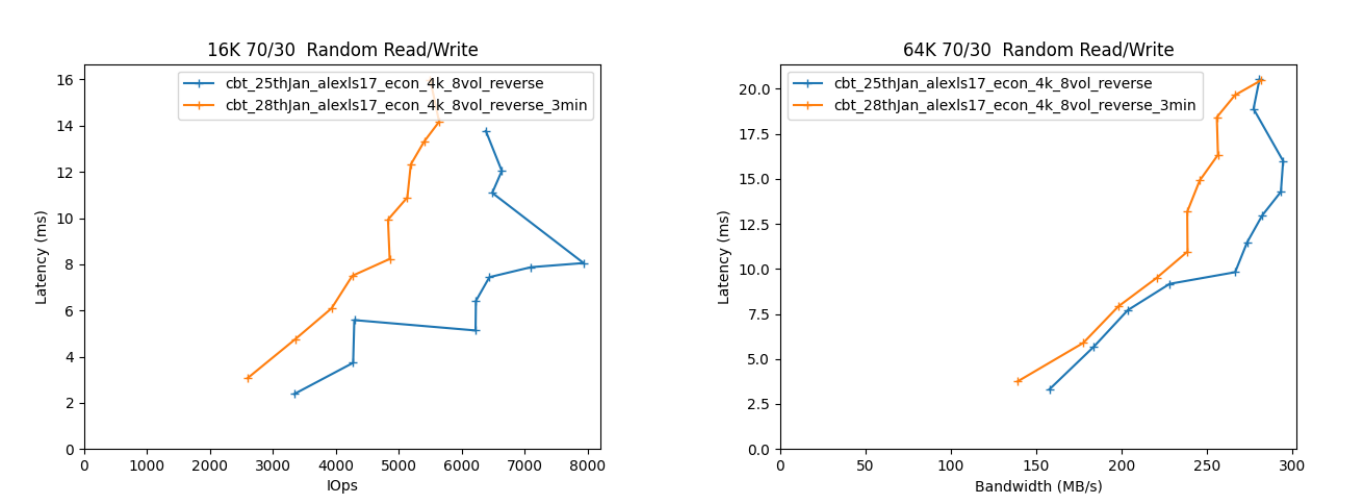


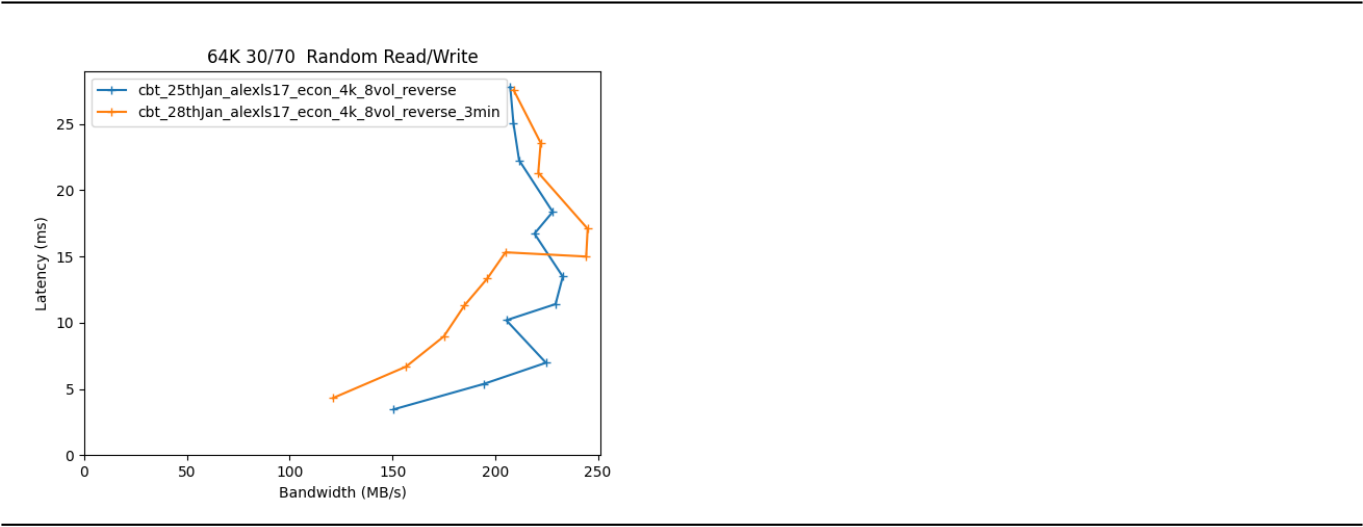
Random Write





Random Read/Write





Configuration yaml files

Only yaml files that differ by more than 20 lines from the yaml file for the baseline directory will be added here in addition to the baseline yaml

results

```

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: 60
  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
    16krandomread:
      iodepth:
        - 48
        - 32
        - 24
        - 20
        - 16
        - 12
        - 8
        - 4
        - 3
        - 2
        - 1
      jobname: randread
      mode: randread
      numjobs:
        - 1

```

```

    op_size: 16384
16krandomwrite:
  iodepth:
    - 16
    - 12
    - 10
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: randwrite
  mode: randwrite
  numjobs:
    - 1
  op_size: 16384
1Mrandomread:
  iodepth:
    - 11
    - 10
    - 9
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: randread
  mode: randread
  numjobs:
    - 1
  op_size: 1048576
1Mrandomwrite:
  iodepth:
    - 11
    - 10
    - 9
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: randwrite
  mode: randwrite
  numjobs:
    - 1
  op_size: 1048576
1Mseqread:
  iodepth:
    - 11
    - 10
    - 9
    - 8
    - 7
    - 6

```

```

- 5
- 4
- 3
- 2
- 1
  jobname: seqread
  mode: read
  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
256krandomread:
  iodepth:
    - 16
    - 12
    - 10
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: randread
  mode: randread
  numjobs:
    - 1
  op_size: 262144
256krandomwrite:
  iodepth:
    - 16
    - 12
    - 10
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: randwrite
  mode: randwrite
  numjobs:
    - 1

```

```

    op_size: 262144
32krandomread:
  iodepth:
    - 32
    - 28
    - 20
    - 16
    - 12
    - 10
    - 8
    - 6
    - 4
    - 2
    - 1
  jobname: randread
  mode: randread
  numjobs:
    - 1
  op_size: 32768
32krandomwrite:
  iodepth:
    - 16
    - 12
    - 10
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: randwrite
  mode: randwrite
  numjobs:
    - 1
  op_size: 32768
4krandomread:
  iodepth:
    - 48
    - 32
    - 24
    - 20
    - 16
    - 8
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: randread
  mode: randread
  numjobs:
    - 1
  op_size: 4096
4krandomwrite:
  iodepth:
    - 16
    - 12
    - 10
    - 8
    - 7
    - 6

```

```

- 5
- 4
- 3
- 2
- 1
  jobname: randwrite
  mode: randwrite
  numjobs:
    - 1
  op_size: 4096
512krandomread:
  iodepth:
    - 11
    - 10
    - 9
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: randread
  mode: randread
  numjobs:
    - 1
  op_size: 524288
512krandomwrite:
  iodepth:
    - 11
    - 10
    - 9
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: randwrite
  mode: randwrite
  numjobs:
    - 1
  op_size: 524288
512kseqread:
  iodepth:
    - 11
    - 10
    - 9
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: seqread
  mode: read
  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
64krandomread:
  iodepth:
    - 28
    - 20
    - 16
    - 12

```

```

- 10
- 8
- 6
- 4
- 3
- 2
- 1
  jobname: randread
  mode: randread
  numjobs:
    - 1
  op_size: 65536
64krandomwrite:
  iodepth:
    - 16
    - 12
    - 10
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: randwrite
  mode: randwrite
  numjobs:
    - 1
  op_size: 65536
64kseqread:
  iodepth:
    - 20
    - 16
    - 12
    - 10
    - 8
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: read
  mode: read
  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
8krandomread:
  iodepth:
  - 48
  - 32
  - 24
  - 20
  - 16
  - 12
  - 8
  - 4
  - 3
  - 2
  - 1
  jobname: randread
  mode: randread
  numjobs:
  - 1
  op_size: 8192
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
seq16kread:
  iodepth:
  - 16
  - 12
  - 10
  - 8
  - 7
  - 6
  - 5
  - 4
  - 3
  - 2
  - 1
  jobname: seqread

```



```

    mode: read
    numjobs:
      - 1
    op_size: 16384
  seq16kwrite:
    iodepth:
      - 16
      - 12
      - 10
      - 8
      - 7
      - 6
      - 5
      - 4
      - 3
      - 2
      - 1
    jobname: seqwrite
    mode: write
    numjobs:
      - 1
    op_size: 16384
  seq256kread:
    iodepth:
      - 11
      - 10
      - 9
      - 8
      - 7
      - 6
      - 5
      - 4
      - 3
      - 2
      - 1
    jobname: seqread
    mode: read
    numjobs:
      - 1
    op_size: 262144
  seq256kwrite:
    iodepth:
      - 11
      - 10
      - 9
      - 8
      - 7
      - 6
      - 5
      - 4
      - 3
      - 2
      - 1
    jobname: seqwrite
    mode: write
    numjobs:
      - 1
    op_size: 262144
  seq32kread:
    iodepth:
      - 16
      - 12
      - 10

```

```

- 8
- 7
- 6
- 5
- 4
- 3
- 2
- 1
  jobname: seqread
  mode: read
  numjobs:
    - 1
  op_size: 32768
seq32kwrite:
  iodepth:
    - 16
    - 12
    - 10
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: seqwrite
  mode: write
  numjobs:
    - 1
  op_size: 32768
seq4kread:
  iodepth:
    - 20
    - 16
    - 14
    - 12
    - 10
    - 8
    - 6
    - 4
    - 3
    - 2
    - 1
  jobname: seqread
  mode: read
  numjobs:
    - 1
  op_size: 4096
seq4kwrite:
  iodepth:
    - 20
    - 16
    - 12
    - 10
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1

```

```

    jobname: seqwrite
    mode: write
    numjobs:
      - 1
    op_size: 4096
  seq8kread:
    iodepth:
      - 16
      - 14
      - 12
      - 10
      - 8
      - 6
      - 5
      - 4
      - 3
      - 2
      - 1
    jobname: seqread
    mode: read
    numjobs:
      - 1
    op_size: 8192
  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}
  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: 60
    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
    16k randomread:
      iodepth:
        - 48
        - 32
        - 24

```

```

- 20
- 16
- 12
- 8
- 4
- 3
- 2
- 1
  jobname: randread
  mode: randread
  numjobs:
    - 1
  op_size: 16384
16krandomwrite:
  iodepth:
    - 16
    - 12
    - 10
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: randwrite
  mode: randwrite
  numjobs:
    - 1
  op_size: 16384
1Mrandomread:
  iodepth:
    - 11
    - 10
    - 9
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: randread
  mode: randread
  numjobs:
    - 1
  op_size: 1048576
1Mrandomwrite:
  iodepth:
    - 11
    - 10
    - 9
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: randwrite

```

```

    mode: randwrite
    numjobs:
      - 1
    op_size: 1048576
  1Mseqread:
    iodepth:
      - 11
      - 10
      - 9
      - 8
      - 7
      - 6
      - 5
      - 4
      - 3
      - 2
      - 1
    jobname: seqread
    mode: read
    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
  256krandomread:
    iodepth:
      - 16
      - 12
      - 10
      - 8
      - 7
      - 6
      - 5
      - 4
      - 3
      - 2
      - 1
    jobname: randread
    mode: randread
    numjobs:
      - 1
    op_size: 262144
  256krandomwrite:
    iodepth:
      - 16
      - 12
      - 10

```

```

- 8
- 7
- 6
- 5
- 4
- 3
- 2
- 1
  jobname: randwrite
  mode: randwrite
  numjobs:
    - 1
  op_size: 262144
32krandomread:
  iodepth:
    - 32
    - 28
    - 20
    - 16
    - 12
    - 10
    - 8
    - 6
    - 4
    - 2
    - 1
  jobname: randread
  mode: randread
  numjobs:
    - 1
  op_size: 32768
32krandomwrite:
  iodepth:
    - 16
    - 12
    - 10
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: randwrite
  mode: randwrite
  numjobs:
    - 1
  op_size: 32768
4krandomread:
  iodepth:
    - 48
    - 32
    - 24
    - 20
    - 16
    - 8
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: randread

```

```

    mode: randread
    numjobs:
      - 1
    op_size: 4096
4krandomwrite:
  iodepth:
    - 16
    - 12
    - 10
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: randwrite
  mode: randwrite
  numjobs:
    - 1
  op_size: 4096
512krandomread:
  iodepth:
    - 11
    - 10
    - 9
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: randread
  mode: randread
  numjobs:
    - 1
  op_size: 524288
512krandomwrite:
  iodepth:
    - 11
    - 10
    - 9
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: randwrite
  mode: randwrite
  numjobs:
    - 1
  op_size: 524288
512kseqread:
  iodepth:
    - 11
    - 10
    - 9

```



```

- 8
- 7
- 6
- 5
- 4
- 3
- 2
- 1
  jobname: seqread
  mode: read
  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
64krandomread:
  iodepth:
  - 28
  - 20
  - 16
  - 12
  - 10
  - 8
  - 6
  - 4
  - 3
  - 2
  - 1
  jobname: randread
  mode: randread
  numjobs:
  - 1
  op_size: 65536
64krandomwrite:
  iodepth:
  - 16
  - 12
  - 10
  - 8
  - 7
  - 6
  - 5
  - 4
  - 3
  - 2
  - 1
  jobname: randwrite
  mode: randwrite
  numjobs:
  - 1
  op_size: 65536
64kseqread:
  iodepth:
  - 20
  - 16
  - 12
  - 10
  - 8
  - 6
  - 5
  - 4
  - 3
  - 2
  - 1
  jobname: read
  mode: read
  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
8krandomread:
  iodepth:
    - 48
    - 32
    - 24
    - 20
    - 16
    - 12
    - 8
    - 4
    - 3
    - 2
    - 1
  jobname: randread
  mode: randread
  numjobs:
    - 1
  op_size: 8192
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
seq16kread:
  iodepth:

```

```

- 16
- 12
- 10
- 8
- 7
- 6
- 5
- 4
- 3
- 2
- 1
  jobname: seqread
  mode: read
  numjobs:
    - 1
  op_size: 16384
seq16kwrite:
  iodepth:
    - 16
    - 12
    - 10
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: seqwrite
  mode: write
  numjobs:
    - 1
  op_size: 16384
seq256kread:
  iodepth:
    - 11
    - 10
    - 9
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: seqread
  mode: read
  numjobs:
    - 1
  op_size: 262144
seq256kwrite:
  iodepth:
    - 11
    - 10
    - 9
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3

```

```

- 2
- 1
  jobname: seqwrite
  mode: write
  numjobs:
    - 1
    op_size: 262144
seq32kread:
  iodepth:
    - 16
    - 12
    - 10
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: seqread
  mode: read
  numjobs:
    - 1
    op_size: 32768
seq32kwrite:
  iodepth:
    - 16
    - 12
    - 10
    - 8
    - 7
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: seqwrite
  mode: write
  numjobs:
    - 1
    op_size: 32768
seq4kread:
  iodepth:
    - 20
    - 16
    - 14
    - 12
    - 10
    - 8
    - 6
    - 4
    - 3
    - 2
    - 1
  jobname: seqread
  mode: read
  numjobs:
    - 1
    op_size: 4096
seq4kwrite:
  iodepth:

```

```

- 20
- 16
- 12
- 10
- 8
- 7
- 6
- 5
- 4
- 3
- 2
- 1
  jobname: seqwrite
  mode: write
  numjobs:
    - 1
  op_size: 4096
seq8kread:
  iodepth:
    - 16
    - 14
    - 12
    - 10
    - 8
    - 6
    - 5
    - 4
    - 3
    - 2
    - 1
  jobname: seqread
  mode: read
  numjobs:
    - 1
  op_size: 8192
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 -FO --rawtoo --sep ";" -f {collectl_dir}

```

results__old

```

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 -FO --rawtoo --sep ";" -f {collectl_dir}
  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}
```