Comparitive Performance Report for cbt-4thFeb-main-4k-8vol vs cbt-3rdFeb-alexls20-econ-4k-8vol vs cbt-6thFeb-alexls22-econ-4k-8vol

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Comparison summary for cbt-4thFeb-main-4k-8vol vs cbt-3rdFeb-alexls20-econ-4k-8vol vs cbt-6thFeb-alexls22-econ-4k-8vol

Sequential Read	cbt_4thFeb_main_4k_8vol	cbt_3rdFeb_alexls20_econ_4k_8vol	% change	cbt_6thFeb_alexls22_econ_4k_8vol	% change
4K	68314@2.3ms	64493@2.5	-6%	65503@2.4	-4%
8K	40450@2.4ms	38690@3.3	-4%	39256@3.3	-3%
16K	22810@5.6ms	22156@5.8	-3%	22265@5.7	-2%
32K	18772@6.8ms	18303@7.0	-2%	18793@6.8	0%
64K	1095@9.6ms	1079@9.7	-1%	1107@9.5	1%
256K	1536@15.0ms	1544@14.9	1%	1568@14.7	2%
512K	1566@29.5ms	1569@29.4	0%	1584@29.1	1%
1024K	1574@53.4ms	1576@58.6	0%	1591@58.0	1%

Sequential Write	cbt_4thFeb_main_4k_8vol	cbt_3rdFeb_alexls20_econ_4k_8vol	% change	cbt_6thFeb_alexls22_econ_4k_8vol	% change
4K	3074@52.0ms	5569@28.7	81%	4864@32.9	58%
8K	2707@47.4ms	5139@31.1	90%	4744@33.7	75%
16K	7408@17.3ms	6848@18.7	-8%	6434@19.9	-13%
32K	9111@14.0ms	9229@13.8	1%	8868@9.0	-3%
64K	245@12.8ms	258@20.3	5%	284@12.9	16%
256K	568@7.2ms	485@4.2	-15%	419@45.0	-26%
512K	479@87.4ms	462@90.6	-4%	480@95.8	0%
1024K	495@84.3ms	502@133.3	1%	487@102.9	-2%

Random Read	cbt_4thFeb_main_4k_8vol	cbt_3rdFeb_alexls20_econ_4k_8vol	% change	cbt_6thFeb_alexls22_econ_4k_8vol	% change
4K	81023@4.7ms	80353@4.8	-1%	80995@4.7	-0%
8K	52986@7.2ms	51630@7.4	-3%	51850@7.4	-2%
16K	31191@12.3ms	31125@8.2	-0%	31522@8.1	1%
32K	28234@9.1ms	29143@8.8	3%	29188@7.7	3%
64K	1559@5.4ms	1574@6.7	1%	1608@6.5	3%
256K	1695@14.8ms	1699@19.7	0%	1706@19.7	1%
512K	1697@27.2ms	1696@27.3	-0%	1707@27.0	1%
1024K	1706@54.1ms	1710@54.0	0%	1714@49.0	0%

Random Write	cbt_4thFeb_main_4k_8vol	cbt_3rdFeb_alexls20_econ_4k_8vol	% change	cbt_6thFeb_alexls22_econ_4k_8vol	% change
4K	2746@46.6ms	5740@11.1	109%	5649@11.3	106%
8K	2917@43.8ms	5689@22.5	95%	5724@22.3	96%
16K	5957@16.1ms	5349@14.9	-10%	5175@24.7	-13%
32K	3629@35.2ms	3405@28.2	-6%	3387@37.8	-7%
64K	191@32.9ms	189@44.2	-1%	182@46.1	-5%
256K	421@39.7ms	428@58.6	2%	363@34.6	-14%

Comparison summary for cbt-4thFeb-main-4k-8vol vs cbt-3rdFeb-alexls20-econ-4k-8vol vs cbt-6thFeb-alexls22-econ-4k-8vol

Random Write	cbt_4thFeb_main_4k_8vol	cbt_3rdFeb_alexls20_econ_4k_8vol	% change	cbt_6thFeb_alexls22_econ_4k_8vol	% change
512K	472@61.9ms	478@87.6	1%	467@89.7	-1%
1024K	478@52.1ms	506@82.4	6%	489@171.5	2%

Random Read/Write	cbt_4thFeb_main_4k_8vol	cbt_3rdFeb_alexls20_econ_4k_8vol	% change	cbt_6thFeb_alexls22_econ_4k_8vol	% change
16K_70/30	7501@8.5ms	7401@5.4	-1%	7205@8.9	-4%
64K_30/70	277@13.2ms	245@23.5	-12%	257@22.4	-7%
64K_70/30	289@18.1ms	285@11.0	-1%	282@11.2	-2%

Response Curves

Sequential Read

512K Sequential Read

1024K Sequential Read

Sequential Write

4K Sequential Write

8K Sequential Write

16K Sequential Write

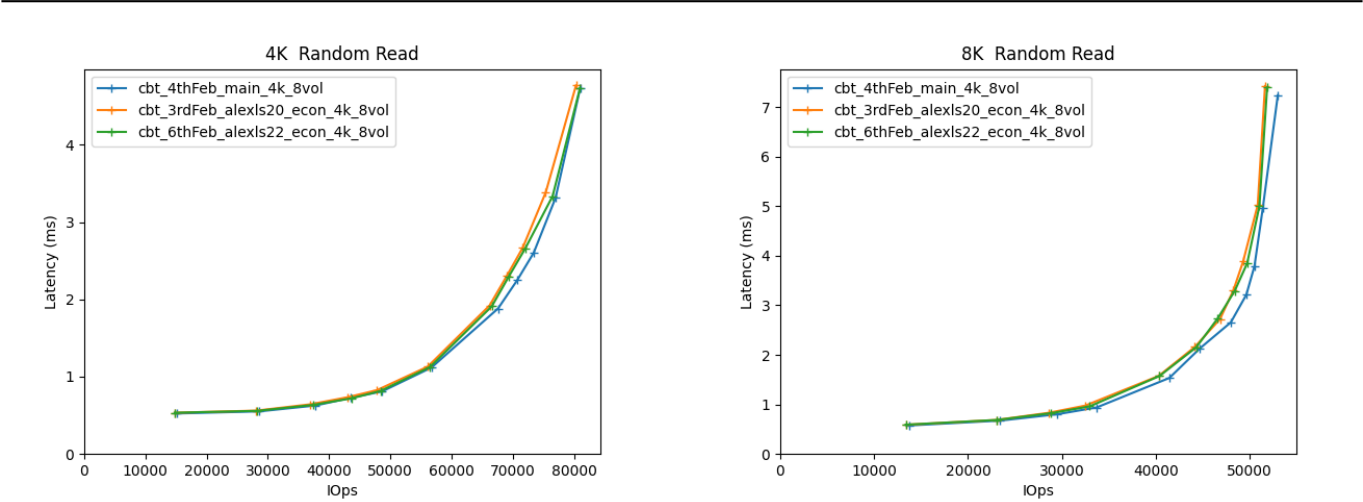## 32K Sequential Write

64K Sequential Write

256K Sequential Write

512K Sequential Write
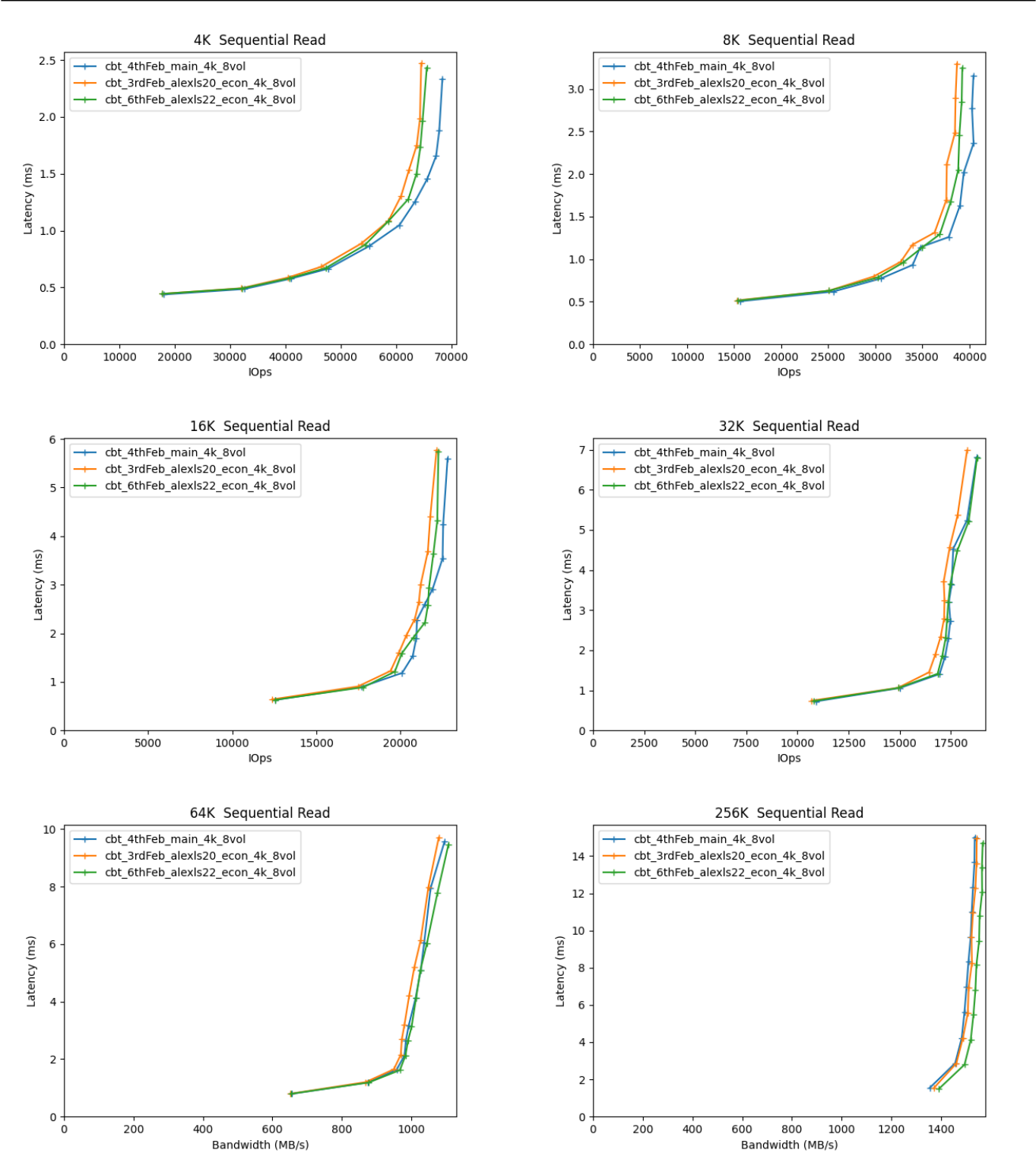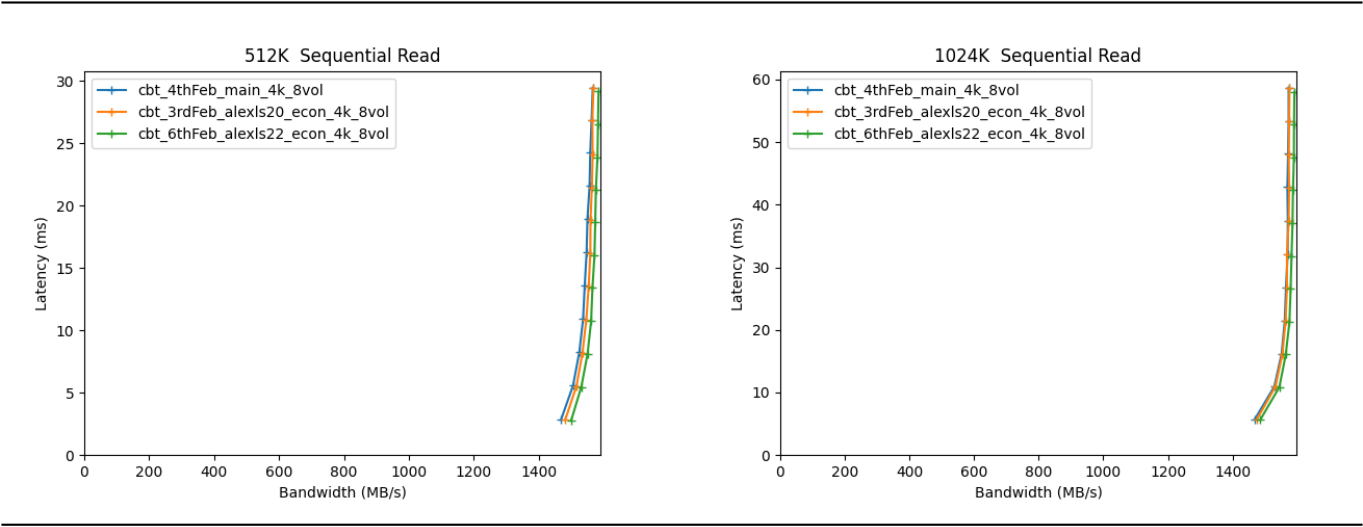
1024K Sequential Write

Random Read

4K Random Read

8K Random Read

16K Random Read

32K Random Read

64K Random Read

256K Random Read

512K Random Read
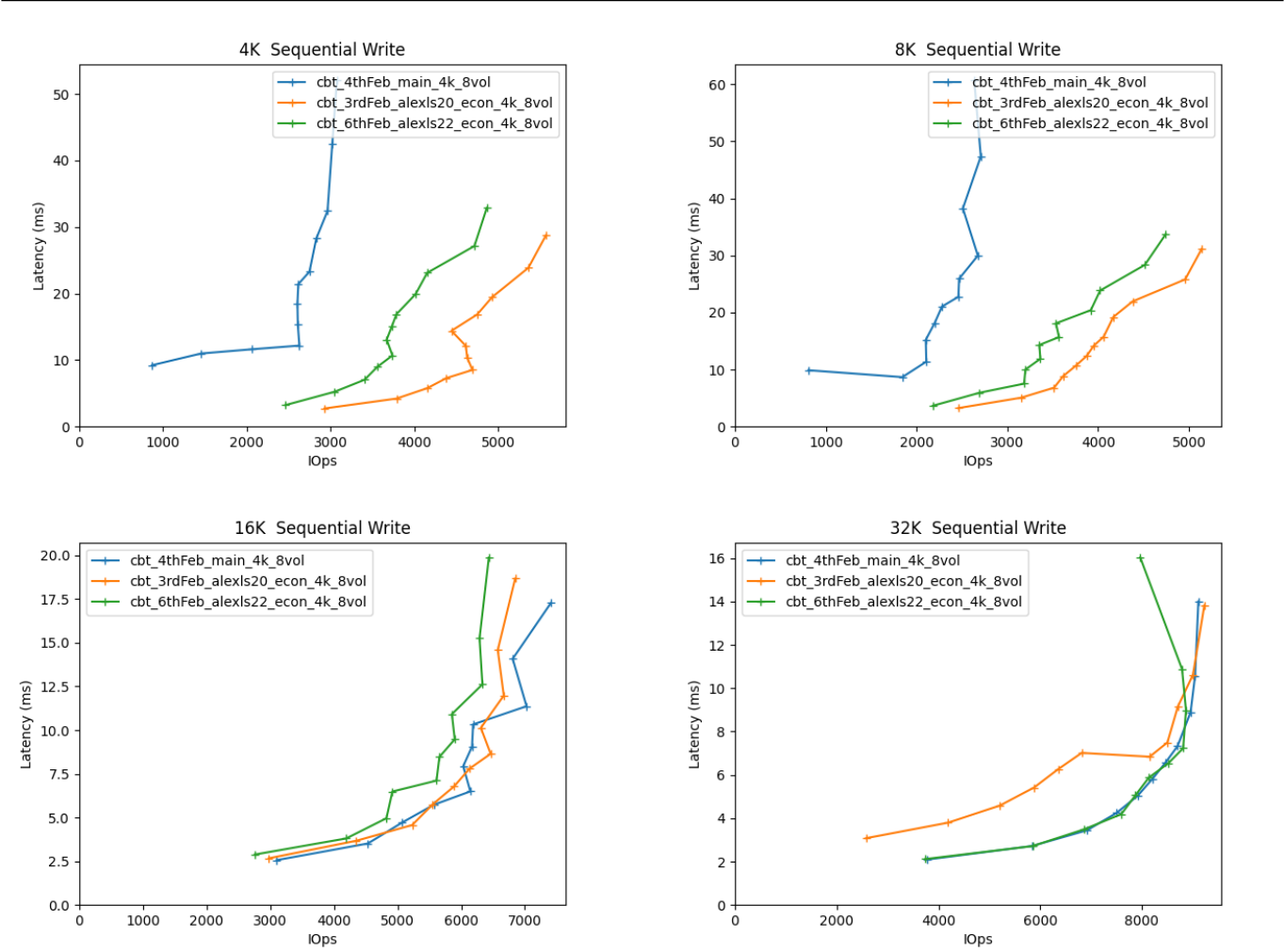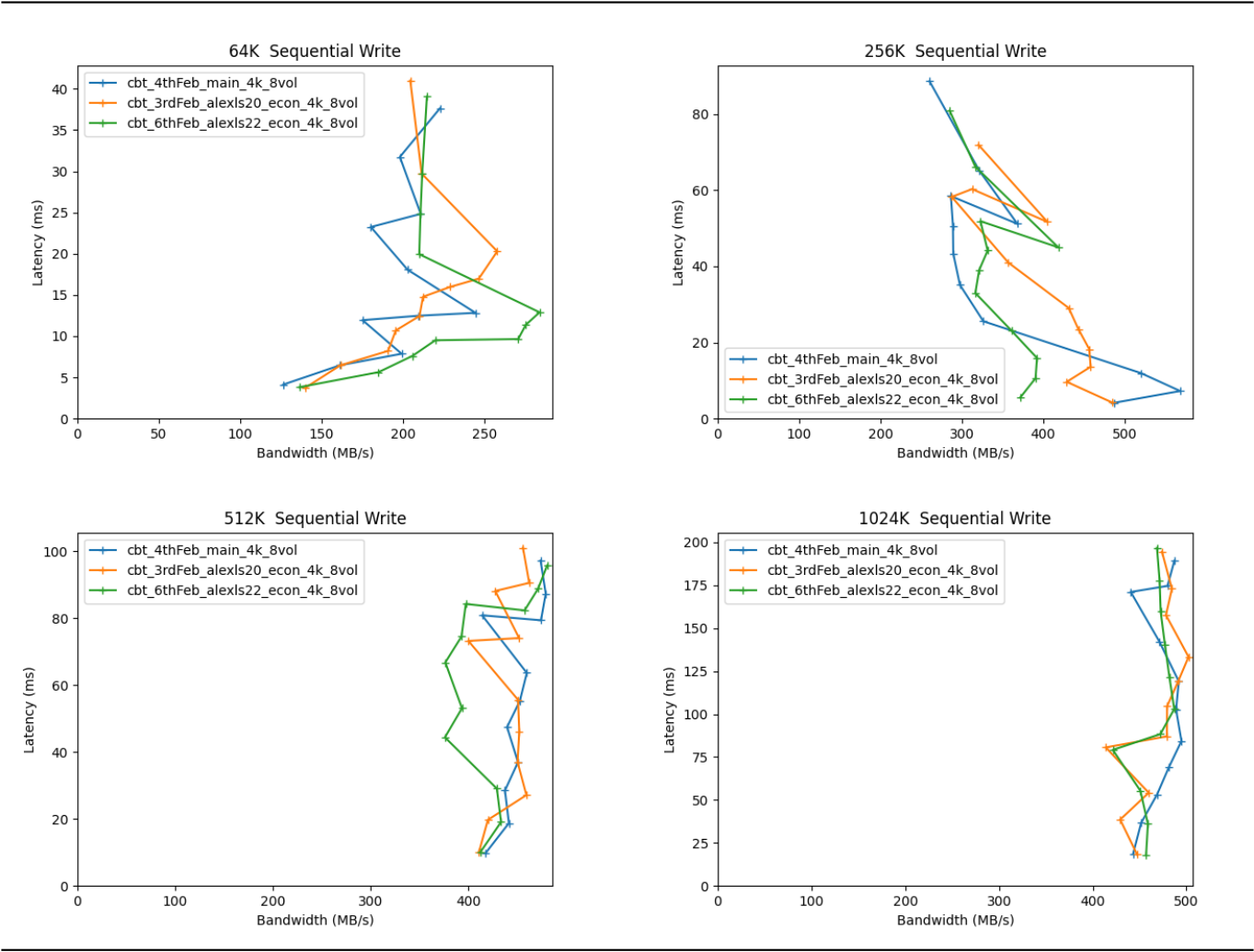
1024K Random Read

Random Write

4K Random Write

8K Random Write

16K Random Write

32K Random Write

64K Random Write

256K Random Write

512K Random Write
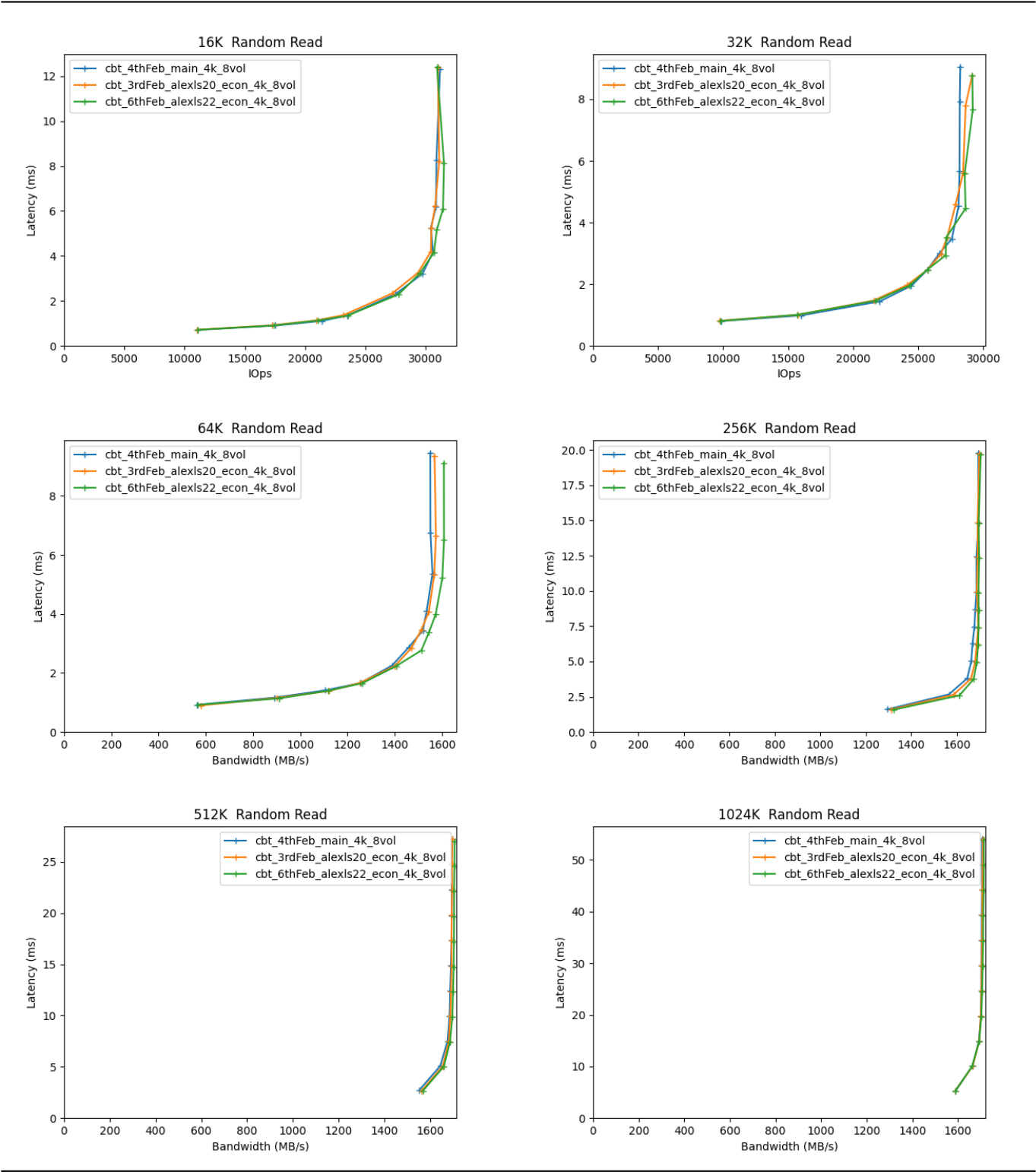
1024K Random Write

Random Read/Write
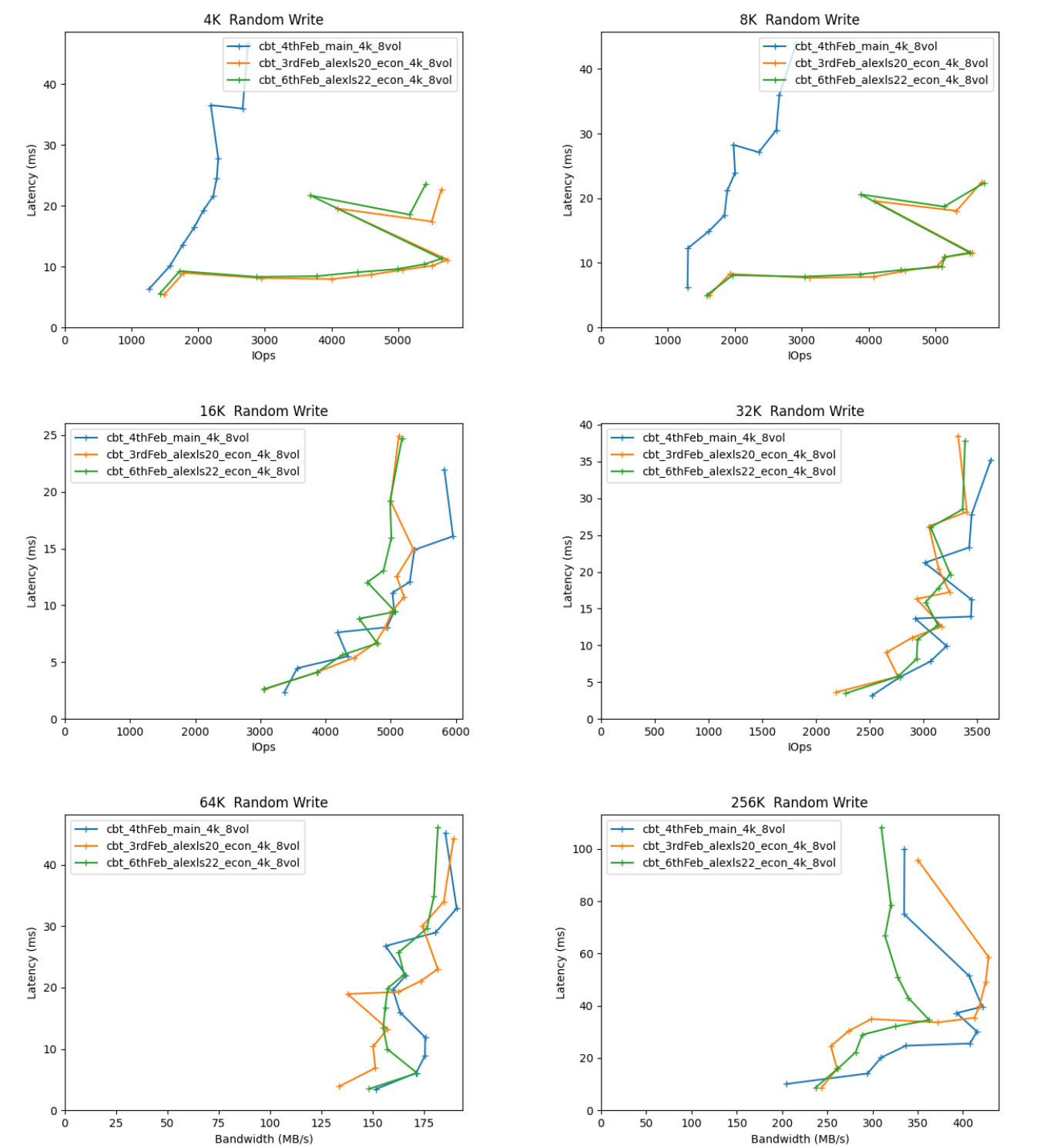

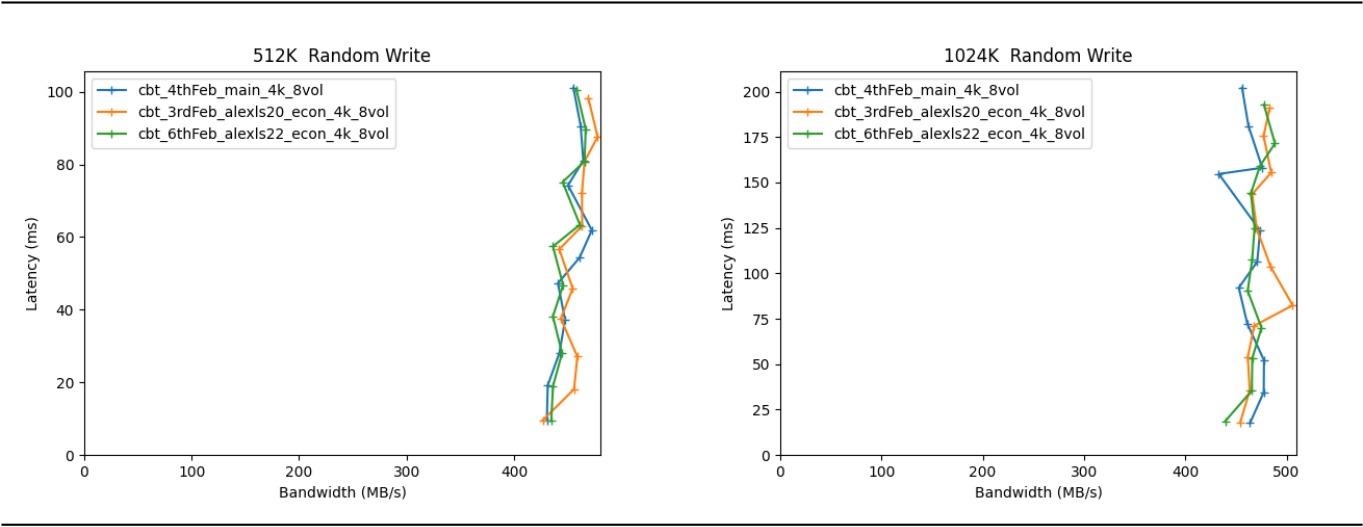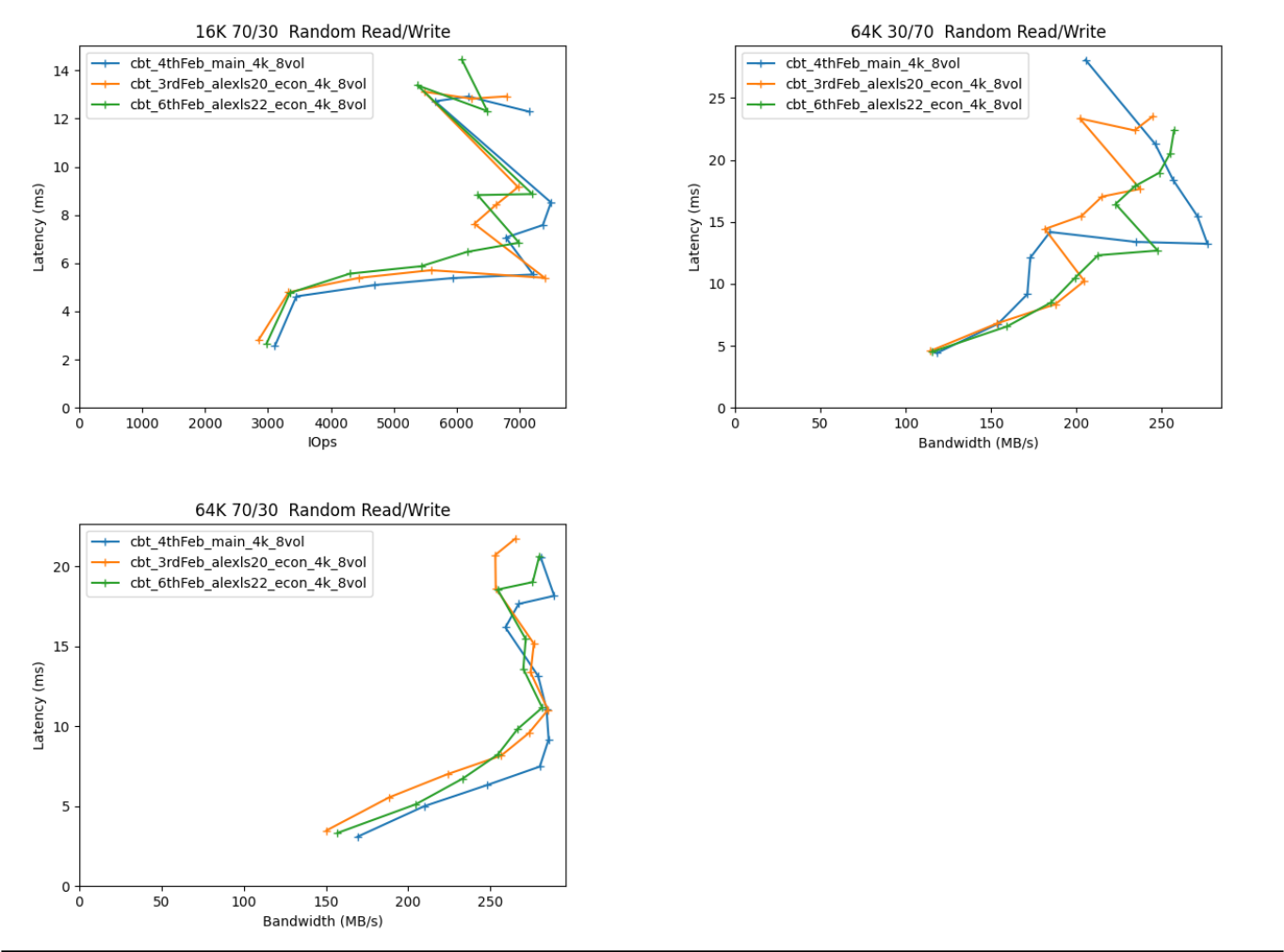16K 70/30 Random Read/Write

64K 30/70 Random Read/Write

64K 70/30 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

```
librbdfio:
  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
  precond_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:
      - 1
      - 2
      - 3
      - 4
      - 5
      - 6
      - 7
      - 8
      - 9
      - 10
      - 11
      jobname: randmix
      mode: randrw
      numjobs:
      - 1
      op_size: 16384
      rwmixread: 70
    16krandomread:
      iodepth:
      - 1
      - 2
      - 3
      - 4
      - 8
      - 12
      - 16
      - 20
      - 24
      - 32
      - 48
      jobname: randread
      mode: randread
      numjobs:
      - 1
```

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

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

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

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

```
      op_size: 524288
    512kseqwrite:
      iodepth:
      - 1
      - 2
      - 3
      - 4
      - 5
      - 6
      - 7
      - 8
      - 9
      - 10
      - 11
      jobname: seqwrite
      mode: write
      numjobs:
      - 1
      op_size: 524288
    64k3070:
      iodepth:
      - 1
      - 2
      - 3
      - 4
      - 5
      - 6
      - 7
      - 8
      - 9
      - 10
      - 11
      jobname: randmix
      mode: randrw
      numjobs:
      - 1
      op_size: 65536
      rwmixread: 30
    64k7030:
      iodepth:
      - 1
      - 2
      - 3
      - 4
      - 5
      - 6
      - 7
      - 8
      - 9
      - 10
      - 11
      jobname: randmix
      mode: randrw
      numjobs:
      - 1
      op_size: 65536
      rwmixread: 70
    64krandomread:
      iodepth:
      - 1
      - 2
      - 3
      - 4
```

```
          - 6
          - 8
          - 10
          - 12
          - 16
          - 20
          - 28
          jobname: randread
          mode: randread
          numjobs:
          - 1
          op_size: 65536
        64krandomwrite:
          iodepth:
          - 1
          - 2
          - 3
          - 4
          - 5
          - 6
          - 7
          - 8
          - 10
          - 12
          - 16
          jobname: randwrite
          mode: randwrite
          numjobs:
          - 1
          op_size: 65536
        64kseqread:
          iodepth:
          - 1
          - 2
          - 3
          - 4
          - 5
          - 6
          - 8
          - 10
          - 12
          - 16
          - 20
          jobname: read
          mode: read
          numjobs:
          - 1
          op_size: 65536
        64kseqwrite:
          iodepth:
          - 1
          - 2
          - 3
          - 4
          - 5
          - 6
          - 7
          - 8
          - 10
          - 12
          - 16
          jobname: write
          mode: write
```

```
    numjobs:
    - 1
    op_size: 65536
  8krandomread:
    iodepth:
    - 1
    - 2
    - 3
    - 4
    - 8
    - 12
    - 16
    - 20
    - 24
    - 32
    - 48
    jobname: randread
    mode: randread
    numjobs:
    - 1
    op_size: 8192
  8krandomwrite:
    iodepth:
    - 1
    - 2
    - 3
    - 4
    - 5
    - 6
    - 7
    - 8
    - 10
    - 12
    - 16
    jobname: randwrite
    mode: randwrite
    numjobs:
    - 1
    op_size: 8192
  precondition:
    iodepth:
    - 2
    jobname: precond1rw
    mode: randwrite
    monitor: false
    numjobs:
    - 1
    op_size: 65536
    precond: true
  seq16kread:
    iodepth:
    - 1
    - 2
    - 3
    - 4
    - 5
    - 6
    - 7
    - 8
    - 10
    - 12
    - 16
    jobname: seqread
```

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

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

```
        jobname: seqwrite
        mode: write
        numjobs:
        - 1
        op_size: 4096
      seq8kread:
        iodepth:
        - 1
        - 2
        - 3
        - 4
        - 5
        - 6
        - 8
        - 10
        - 12
        - 14
        - 16
        jobname: seqread
        mode: read
        numjobs:
        - 1
        op_size: 8192
      seq8kwrite:
        iodepth:
        - 1
        - 2
        - 3
        - 4
        - 5
        - 6
        - 7
        - 8
        - 10
        - 12
        - 16
        - 20
        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
```

```yaml
    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}

  librbdfio:
    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
    precond_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:
        - 1
        - 2
        - 3
        - 4
        - 5
        - 6
        - 7
        - 8
        - 9
        - 10
        - 11
        jobname: randmix
        mode: randrw
        numjobs:
        - 1
        op_size: 16384
        rwmixread: 70
      16krandomread:
        iodepth:
        - 1
        - 2
        - 3
```

```
    - 4
    - 8
    - 12
    - 16
    - 20
    - 24
    - 32
    - 48
    jobname: randread
    mode: randread
    numjobs:
    - 1
    op_size: 16384
  16krandomwrite:
    iodepth:
    - 1
    - 2
    - 3
    - 4
    - 5
    - 6
    - 7
    - 8
    - 10
    - 12
    - 16
    jobname: randwrite
    mode: randwrite
    numjobs:
    - 1
    op_size: 16384
  1Mrandomread:
    iodepth:
    - 1
    - 2
    - 3
    - 4
    - 5
    - 6
    - 7
    - 8
    - 9
    - 10
    - 11
    jobname: randread
    mode: randread
    numjobs:
    - 1
    op_size: 1048576
  1Mrandomwrite:
    iodepth:
    - 1
    - 2
    - 3
    - 4
    - 5
    - 6
    - 7
    - 8
    - 9
    - 10
    - 11
    jobname: randwrite
```

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

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

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

```
      - 4
      - 5
      - 6
      - 7
      - 8
      - 9
      - 10
      - 11
      jobname: seqread
      mode: read
      numjobs:
      - 1
      op_size: 524288
    512kseqwrite:
      iodepth:
      - 1
      - 2
      - 3
      - 4
      - 5
      - 6
      - 7
      - 8
      - 9
      - 10
      - 11
      jobname: seqwrite
      mode: write
      numjobs:
      - 1
      op_size: 524288
    64k3070:
      iodepth:
      - 1
      - 2
      - 3
      - 4
      - 5
      - 6
      - 7
      - 8
      - 9
      - 10
      - 11
      jobname: randmix
      mode: randrw
      numjobs:
      - 1
      op_size: 65536
      rwmixread: 30
    64k7030:
      iodepth:
      - 1
      - 2
      - 3
      - 4
      - 5
      - 6
      - 7
      - 8
      - 9
      - 10
      - 11
```

```
    jobname: randmix
    mode: randrw
    numjobs:
    - 1
    op_size: 65536
    rwmixread: 70
64krandomread:
    iodepth:
    - 1
    - 2
    - 3
    - 4
    - 6
    - 8
    - 10
    - 12
    - 16
    - 20
    - 28
    jobname: randread
    mode: randread
    numjobs:
    - 1
    op_size: 65536
64krandomwrite:
    iodepth:
    - 1
    - 2
    - 3
    - 4
    - 5
    - 6
    - 7
    - 8
    - 10
    - 12
    - 16
    jobname: randwrite
    mode: randwrite
    numjobs:
    - 1
    op_size: 65536
64kseqread:
    iodepth:
    - 1
    - 2
    - 3
    - 4
    - 5
    - 6
    - 8
    - 10
    - 12
    - 16
    - 20
    jobname: read
    mode: read
    numjobs:
    - 1
    op_size: 65536
64kseqwrite:
    iodepth:
    - 1
```

```
         - 2
         - 3
         - 4
         - 5
         - 6
         - 7
         - 8
         - 10
         - 12
         - 16
         jobname: write
         mode: write
         numjobs:
         - 1
         op_size: 65536
      8krandomread:
         iodepth:
         - 1
         - 2
         - 3
         - 4
         - 8
         - 12
         - 16
         - 20
         - 24
         - 32
         - 48
         jobname: randread
         mode: randread
         numjobs:
         - 1
         op_size: 8192
      8krandomwrite:
         iodepth:
         - 1
         - 2
         - 3
         - 4
         - 5
         - 6
         - 7
         - 8
         - 10
         - 12
         - 16
         jobname: randwrite
         mode: randwrite
         numjobs:
         - 1
         op_size: 8192
      precondition:
         iodepth:
         - 2
         jobname: precond1rw
         mode: randwrite
         monitor: false
         numjobs:
         - 1
         op_size: 65536
         precond: true
      seq16kread:
         iodepth:
```

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

```
      - 10
      - 11
      jobname: seqwrite
      mode: write
      numjobs:
      - 1
      op_size: 262144
    seq32kread:
      iodepth:
      - 1
      - 2
      - 3
      - 4
      - 5
      - 6
      - 7
      - 8
      - 10
      - 12
      - 16
      jobname: seqread
      mode: read
      numjobs:
      - 1
      op_size: 32768
    seq32kwrite:
      iodepth:
      - 1
      - 2
      - 3
      - 4
      - 5
      - 6
      - 7
      - 8
      - 10
      - 12
      - 16
      jobname: seqwrite
      mode: write
      numjobs:
      - 1
      op_size: 32768
    seq4kread:
      iodepth:
      - 1
      - 2
      - 3
      - 4
      - 6
      - 8
      - 10
      - 12
      - 14
      - 16
      - 20
      jobname: seqread
      mode: read
      numjobs:
      - 1
      op_size: 4096
    seq4kwrite:
      iodepth:
```

```
          - 1
          - 2
          - 3
          - 4
          - 5
          - 6
          - 7
          - 8
          - 10
          - 12
          - 16
          - 20
          jobname: seqwrite
          mode: write
          numjobs:
          - 1
          op_size: 4096
        seq8kread:
          iodepth:
          - 1
          - 2
          - 3
          - 4
          - 5
          - 6
          - 8
          - 10
          - 12
          - 14
          - 16
          jobname: seqread
          mode: read
          numjobs:
          - 1
          op_size: 8192
        seq8kwrite:
          iodepth:
          - 1
          - 2
          - 3
          - 4
          - 5
          - 6
          - 7
          - 8
          - 10
          - 12
          - 16
          - 20
          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}
```