Comparitive Performance Report for cbt-4thFeb-main-4k-8vol vs cbt-9thFeb-alexls19-econ-4k-8vol vs cbt-9thFeb-alexls20-econ-4k-8vol vs cbt-8thFeb-alexls21-econ-4k-8vol vs cbt-6thFeb-alexls22-econ-4k-8vol

Table of contents

Comparison summary for cbt-4thFeb-main-4k-8vol vs cbt-9thFeb-alexls19-econ-4k-8vol vs cbt-9thFeb-alexls20-econ-4k-8vol vs cbt-8thFeb-alexls21-econ-4k-8vol vs cbt-6thFeb-alexls22-econ-4k-8vol

Sequential Read	cbt_4thFeb_main_4k	cbt_9thFeb_alexls19_econ	%change	cbt_9thFeb_alexls20_econ	%change	cbt_8thFeb_alexls21_econ	%change	cbt_6thFeb_alexls22_econ_4k
4K	68314@2.3ms	65087@2.4	-5%	62722@2.5	-8%	64010@2.5	-6%	65503@2.4	-4%
8K	40450@2.4ms	38412@3.3	-5%	37938@2.5	-6%	38197@2.9	-6%	39256@3.3	-3%
16K	22810@5.6ms	21662@5.9	-5%	21331@6.0	-6%	21827@5.9	-4%	22265@5.7	-2%
32K	18772@6.8ms	18821@6.8	0%	18584@6.9	-1%	18676@6.8	-1%	18793@6.8	0%
64K	1095@9.6ms	1112@9.4	2%	1101@9.5	1%	1101@9.5	1%	1107@9.5	1%
256K	1536@15.0ms	1571@14.7	2%	1573@14.7	2%	1573@14.7	2%	1568@14.7	2%
512K	1566@29.5ms	1594@28.9	2%	1595@28.9	2%	1594@26.3	2%	1584@29.1	1%
1024K	1574@53.4ms	1600@47.2	2%	1601@57.7	2%	1599@57.7	2%	1591@58.0	1%

Sequential Write	cbt_4thFeb_main_4k	cbt_9thFeb_alexls19_econ	%change	cbt_9thFeb_alexls20_econ	%change	cbt_8thFeb_alexls21_econ	%change	cbt_6thFeb_alexls22_econ_4k
4K	3074@52.0ms	6087@7.9	98%	6076@6.6	98%	5063@31.6	65%	4864@32.9	58%
8K	2707@47.4ms	4910@32.6	81%	5045@31.7	86%	4719@33.9	74%	4744@33.7	75%
16K	7408@17.3ms	7005@18.3	-5%	7176@13.4	-3%	6214@20.6	-16%	6434@19.9	-13%
32K	9111@14.0ms	9135@8.7	0%	8947@8.9	-2%	8284@6.7	-9%	8868@9.0	-3%
64K	245@12.8ms	261@24.0	7%	236@22.2	-4%	213@19.6	-13%	284@12.9	16%
256K	568@7.2ms	697@33.0	23%	715@32.1	26%	702@32.7	24%	419@45.0	-26%
512K	479@87.4ms	555@82.9	16%	575@72.8	20%	487@68.6	2%	480@95.8	0%
1024K	495@84.3ms	601@83.2	21%	629@79.6	27%	481@156.6	-3%	487@102.9	-2%

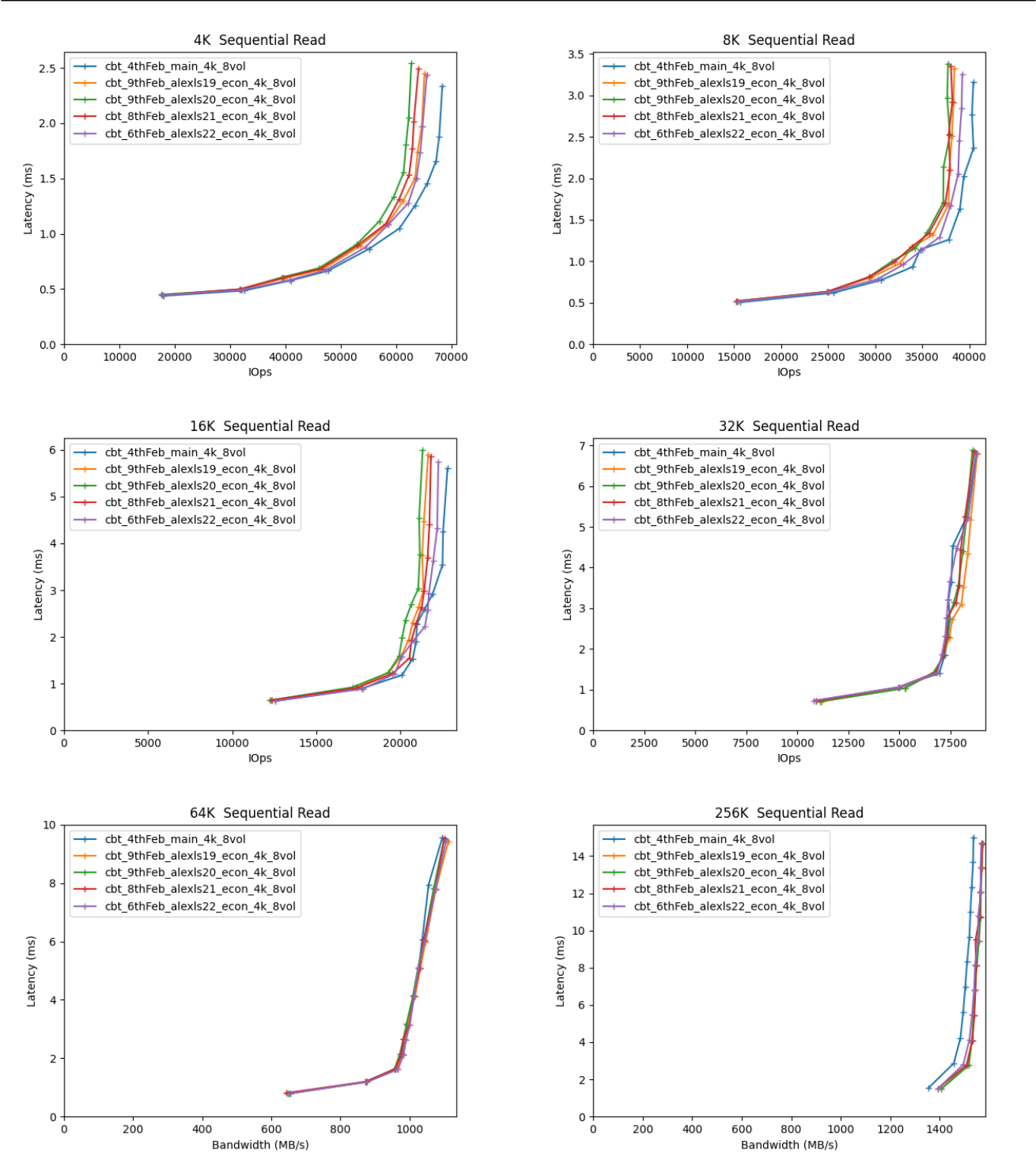| Random Read	cbt_4thFeb_main_4k	cbt_9thFeb_alexls19_econ	%change	cbt_9thFeb_alexls20_econ	%change	cbt_8thFeb_alexls21_econ	%change	cbt_6thFeb_alexls22_econ_4k
4K	81023@4.7ms	80094@4.8	-1%	78442@4.9	-3%	79464@4.8	-2%	80995@4.7	-0%
8K	52986@7.2ms	52285@7.3	-1%	50935@5.0	-4%	51046@7.5	-4%	51850@7.4	-2%
16K	31191@12.3ms	31582@5.1	1%	30467@8.4	-2%	31203@8.2	0%	31522@8.1	1%
32K	28234@9.1ms	29209@7.7	3%	28641@7.8	1%	28833@4.4	2%	29188@7.7	3%
64K	1559@5.4ms	1596@5.2	2%	1590@9.2	2%	1599@6.5	3%	1608@6.5	3%
256K	1695@14.8ms	1720@19.5	1%	1728@19.4	2%	1720@19.5	1%	1706@19.7	1%
512K	1697@27.2ms	1729@26.7	2%	1729@26.7	2%	1725@26.7	2%	1707@27.0	1%
1024K	1706@54.1ms	1722@53.6	1%	1720@53.8	1%	1720@53.7	1%	1714@49.0	0%

cbt-4thFeb-main-4k-8vol vs cbt-9thFeb-alexls19-econ-4k-8vol vs cbt-9thFeb-alexls20-econ-4k-8vol vs
cbt-8thFeb-alexls21-econ-4k-8vol vs cbt-6thFeb-alexls22-econ-4k-8vol
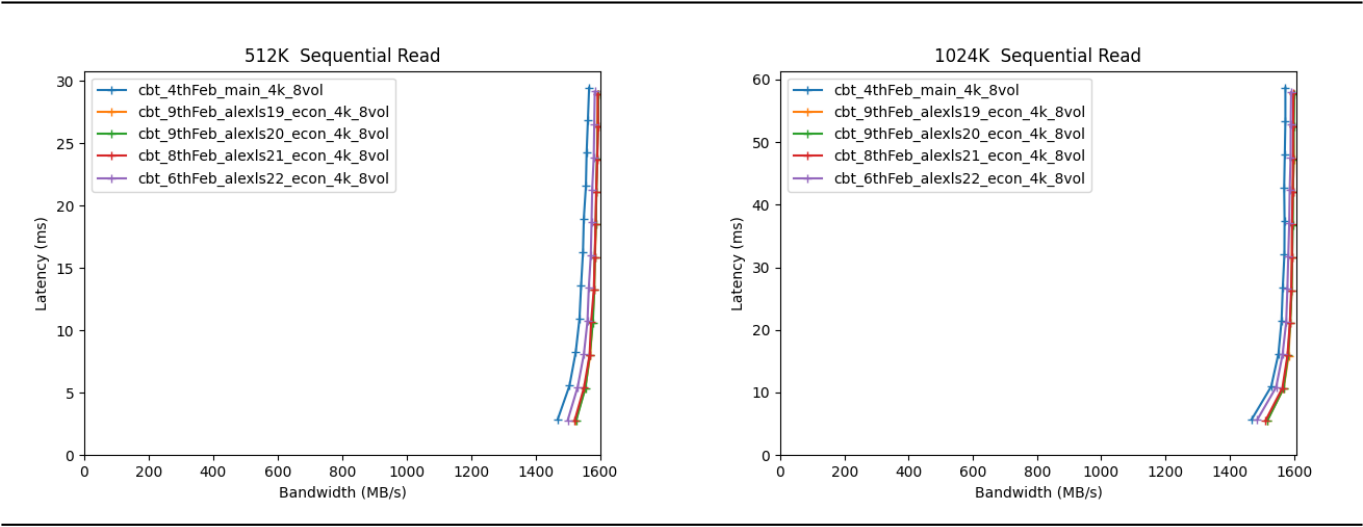3
February 10, 2025

Comparison summary for cbt-4thFeb-main-4k-8vol vs cbt-9thFeb-alexls19-econ-4k-8vol vs cbt-9thFeb-alexls20-econ-4k-8vol vs cbt-8thFeb-alexls21-econ-4k-8vol vs cbt-6thFeb-alexls22-econ-4k-8vol

Random Write	cbt_4thFeb_main	cbt_9thFeb_alexls19_econ	%change	cbt_9thFeb_alexls20_econ	%change	cbt_8thFeb_alexls21_econ	%change	cbt_6thFeb_alexls22_econ	%change
4K	2746@46.6ms	5635@8.5	105%	5575@8.6	103%	4741@27.0	73%	5649@11.3	106%
8K	2917@43.8ms	5249@18.3	80%	5316@24.1	82%	4511@28.4	55%	5724@22.3	96%
16K	5957@16.1ms	5188@24.6	-13%	5311@24.1	-11%	4272@29.9	-28%	5175@24.7	-13%
32K	3629@35.2ms	4033@31.7	11%	4091@31.3	13%	3434@37.2	-5%	3387@37.8	-7%
64K	191@32.9ms	243@34.5	27%	227@37.0	19%	180@14.5	-6%	182@46.1	-5%
256K	421@39.7ms	414@50.5	-2%	413@50.6	-2%	460@72.8	9%	363@34.6	-14%
512K	472@61.9ms	577@79.8	22%	619@60.7	31%	501@83.5	6%	467@89.7	-1%
1024K	478@52.1ms	592@155.6	24%	617@121.8	29%	476@158.4	-0%	489@171.5	2%

Random Read/Write	cbt_4thFeb_main	cbt_9thFeb_alexls19_econ	%change	cbt_9thFeb_alexls20_econ	%change	cbt_8thFeb_alexls21_econ	%change	cbt_6thFeb_alexls22_econ	%change
16K_70/30	7501@8.5ms	6876@5.8	-8%	6776@7.1	-10%	6695@7.2	-11%	7205@8.9	-4%
64K_70/30	289@18.1ms	312@18.5	8%	327@16.0	13%	288@18.2	-0%	282@11.2	-2%
64K_30/70	277@13.2ms	212@12.3	-23%	221@9.5	-20%	225@13.9	-19%	257@22.4	-7%

cbt-4thFeb-main-4k-8vol vs cbt-9thFeb-alexls19-econ-4k-8vol vs cbt-9thFeb-alexls20-econ-4k-8vol vs cbt-8thFeb-alexls21-econ-4k-8vol vs cbt-6thFeb-alexls22-econ-4k-8vol

February 10, 2025

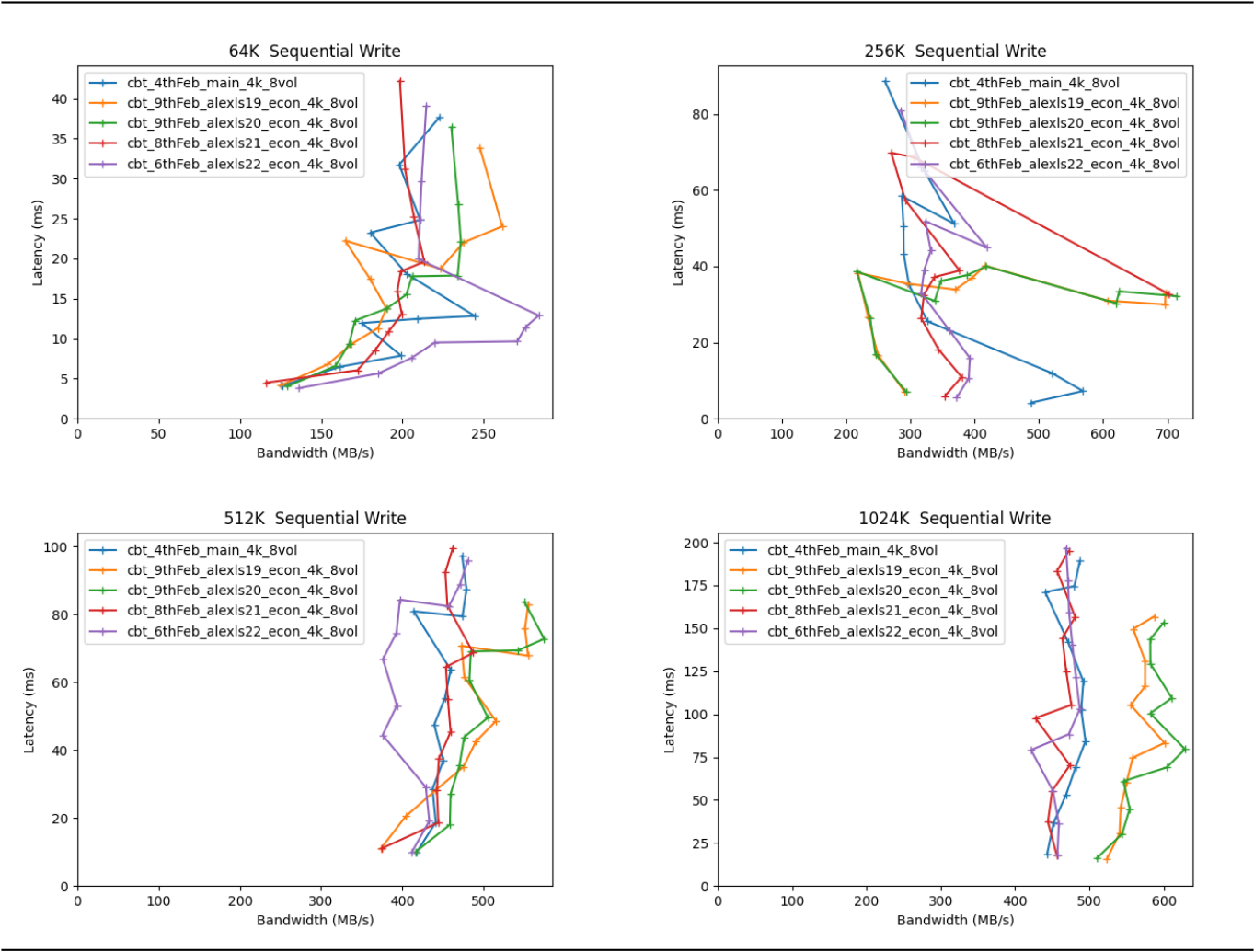# Response Curves

Sequential Read

512K Sequential Read

1024K Sequential Read

Sequential Write

4K Sequential Write

8K Sequential Write

16K Sequential Write

32K Sequential Write

cbt-4thFeb-main-4k-8vol vs cbt-9thFeb-alexls19-econ-4k-8vol vs cbt-9thFeb-alexls20-econ-4k-8vol vs cbt-8thFeb-alexls21-econ-4k-8vol vs cbt-6thFeb-alexls22-econ-4k-8vol

February 10, 2025

64K Sequential Write

256K Sequential Write

512K Sequential Write

1024K Sequential Write

Random Read

4K Random Read

8K Random Read

16K Random Read

Legend:
- cbt_4thFeb_main_4k_8vol
- cbt_9thFeb_alexls19_econ_4k_8vol
- cbt_9thFeb_alexls20_econ_4k_8vol
- cbt_8thFeb_alexls21_econ_4k_8vol
- cbt_6thFeb_alexls22_econ_4k_8vol

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

cbt-4thFeb-main-4k-8vol vs cbt-9thFeb-alexls19-econ-4k-8vol vs cbt-9thFeb-alexls20-econ-4k-8vol vs cbt-8thFeb-alexls21-econ-4k-8vol vs cbt-6thFeb-alexls22-econ-4k-8vol

February 10, 2025
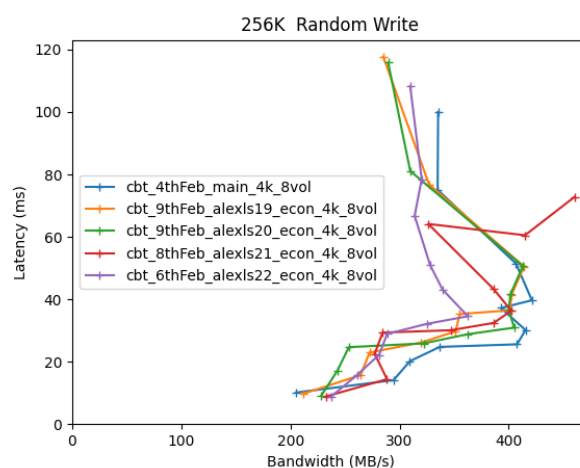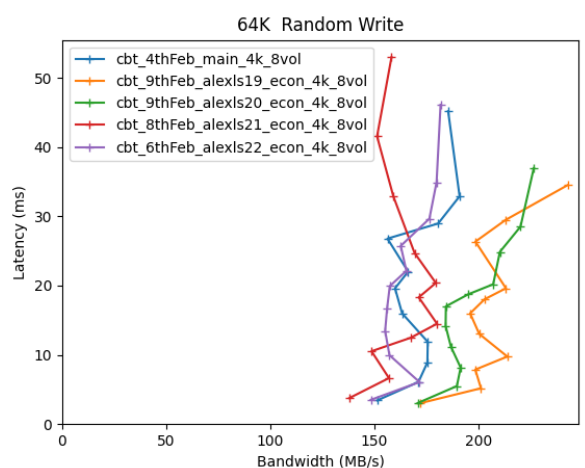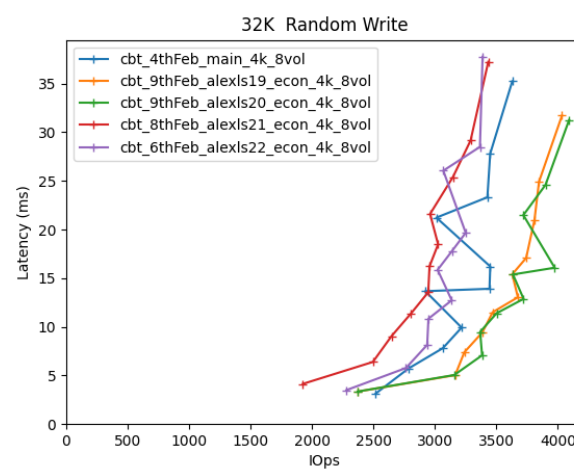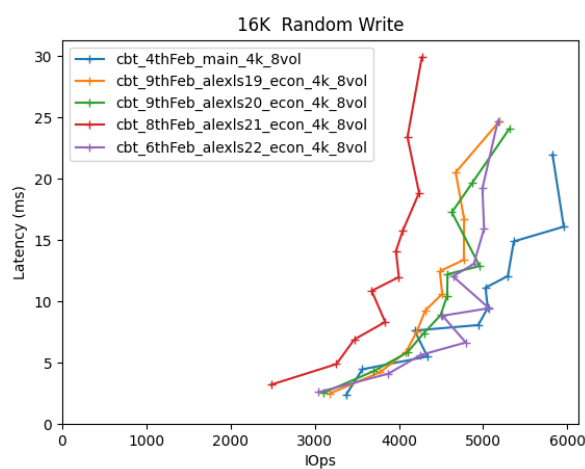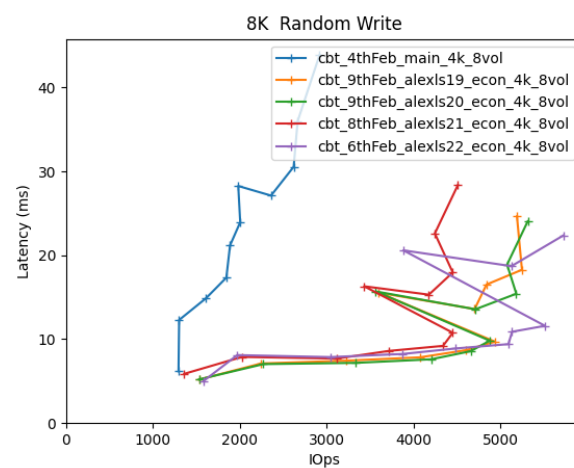
Random Read/Write

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
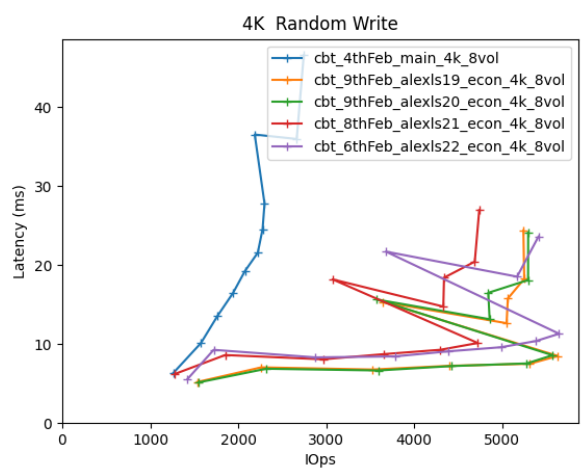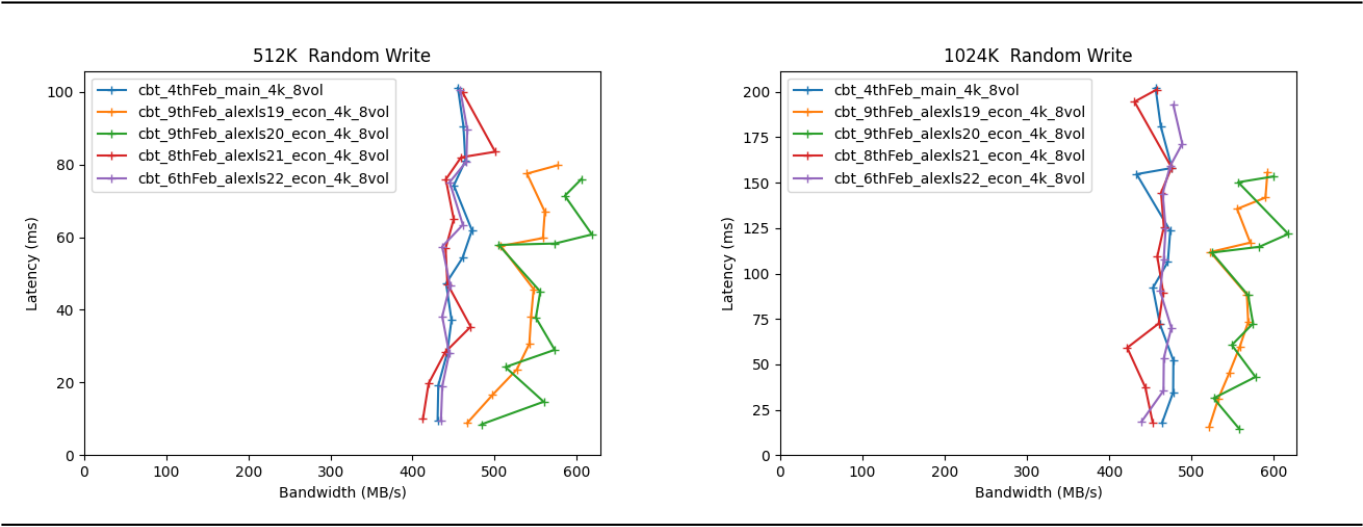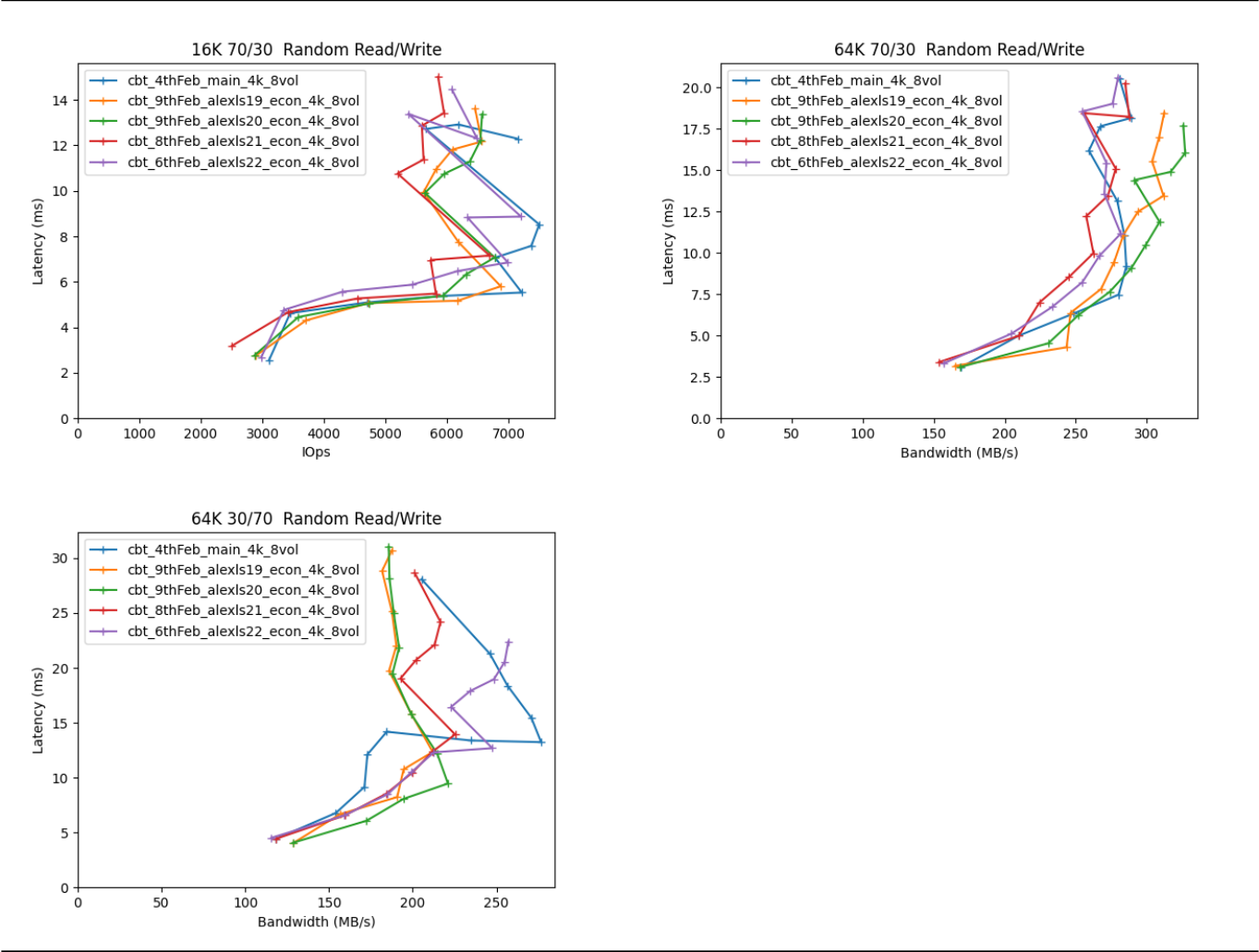
results

```
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
```

cbt-4thFeb-main-4k-8vol vs cbt-9thFeb-alexls19-econ-4k-8vol vs cbt-9thFeb-alexls20-econ-4k-8vol vs February 10, 2025
cbt-8thFeb-alexls21-econ-4k-8vol vs cbt-6thFeb-alexls22-econ-4k-8vol

28

```
    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}
```