

Comparitive Performance Report for cbt-21stFeb-main-8vol-finegrain-cacheon- rbdoff-allappends vs cbt-20thFeb-ecoptmain-8vol-finegrain- cacheon-rbdoff-allappends3

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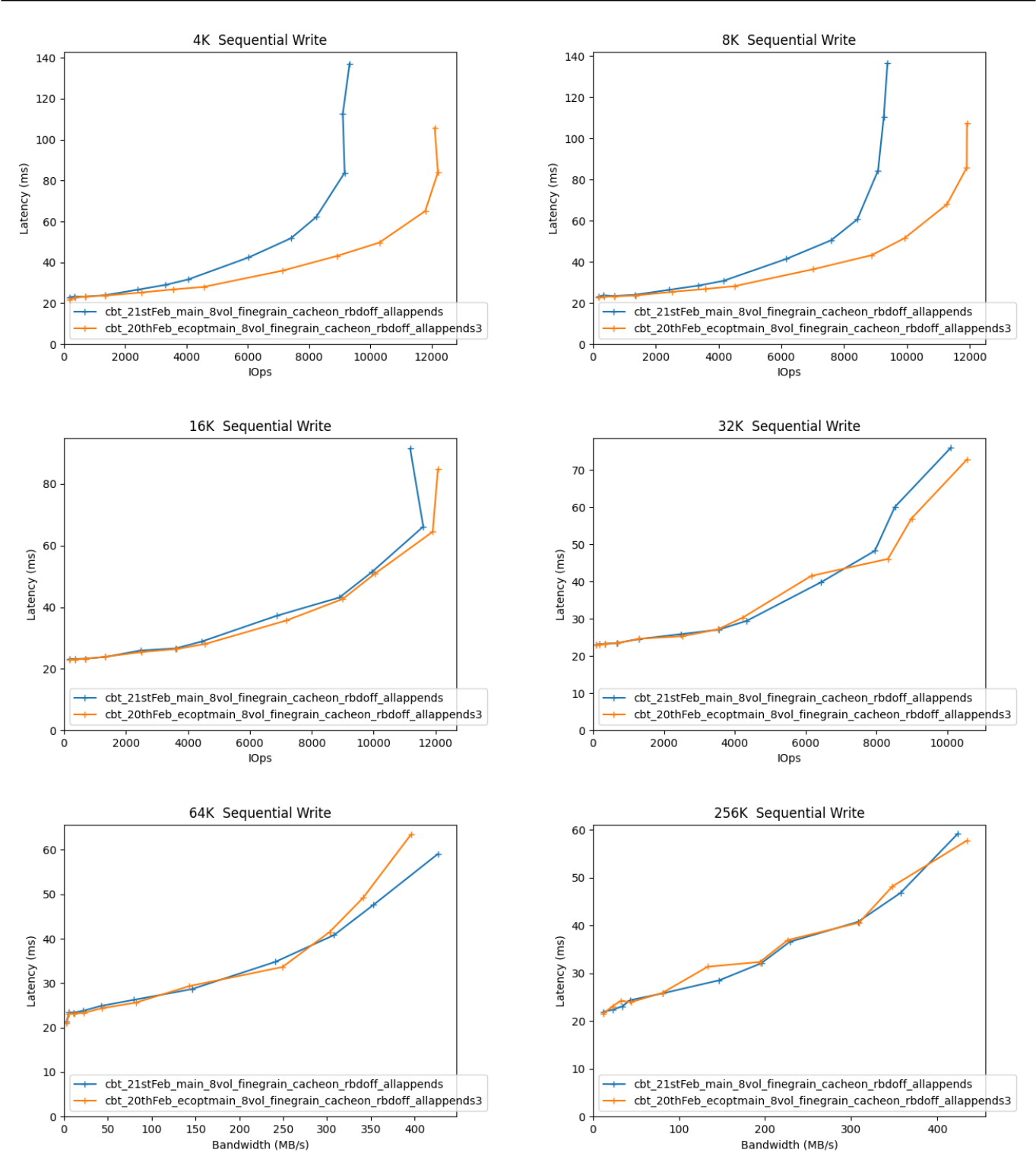
- Comparison summary for cbt-21stFeb-main-8vol-finegrain-cacheon-rbdoff-allappends vs cbt-20thFeb-ecoptmain-8vol-finegrain-cacheon-rbdoff-allappends3
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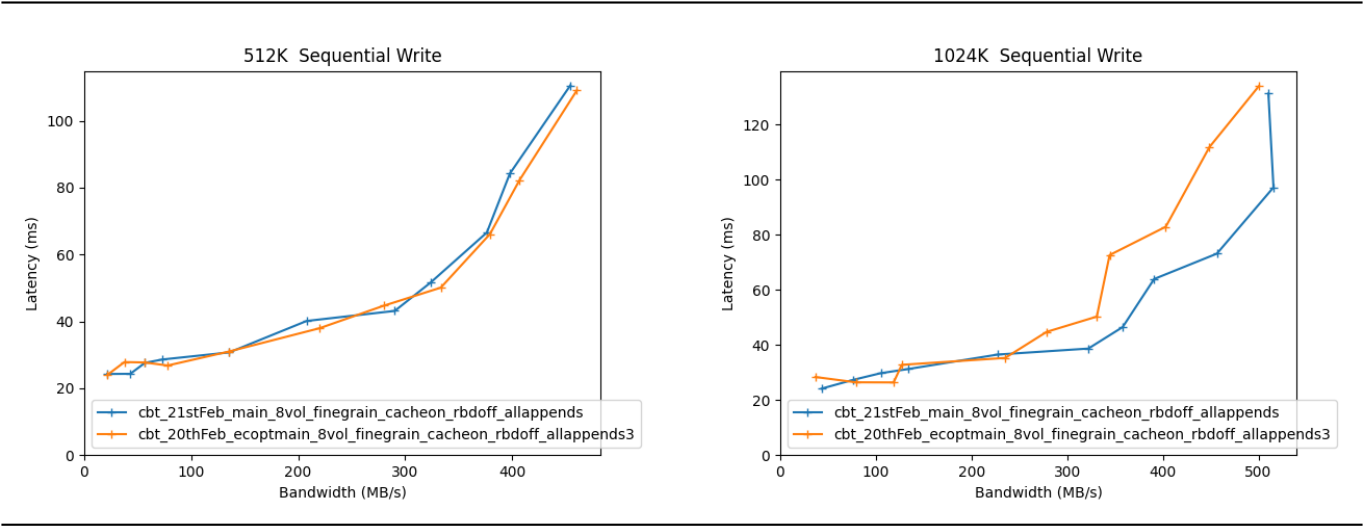
Comparison summary for cbt-21stFeb-main-8vol-finegrain-cacheon-rbdoff-allappends vs cbt-20thFeb-ecoptmain-8vol-finegrain-cacheon-rbdoff-allappends3

Sequential Write	cbt_21stFeb_main_8vol-finegrain-cacheon-rbdoff-allappends	cbt-20thFeb-ecoptmain-8vol-finegrain-cacheon-rbdoff-allappends3	% change	% change
4K	9324 IOps@137.1ms	12209 IOps@84.0ms	31%	-39%
8K	9385 IOps@136.6ms	11919 IOps@107.3ms	27%	-21%
16K	11601 IOps@66.2ms	12074 IOps@84.8ms	4%	28%
32K	10105 IOps@75.9ms	10555 IOps@72.7ms	4%	-4%
64K	426 MB/s@59.0ms	396 MB/s@63.5ms	-7%	8%
256K	424 MB/s@59.2ms	435 MB/s@57.8ms	3%	-2%
512K	455 MB/s@110.6ms	461 MB/s@109.1ms	1%	-1%
1024K	516 MB/s@97.2ms	500 MB/s@133.9ms	-3%	38%

Response Curves

Sequential 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
  prefill:
    blocksize: 64k
    numjobs: 1
  procs_per_volume:
  - 1
  ramp: 30
  time: 60
  time_based: true
  use_existing_volumes: true
  vol_size: 1000
  volumes_per_client:
  - 8
  workloads:
    64kseqwriteappend:
      jobname: write
      mode: write
      numjobs:
      - 1
      op_size: 65536
      pre_workload_script: /cvt.lee/tools/setup_cluster/mkdelvols.cbt
      total_iodepth:
      - 1
      - 2
      - 4
      - 8
      - 16
      - 32
      - 64
      - 128
      - 192
      - 256
      - 384
    seq16kwriteappend:
      jobname: seqwrite
      mode: write
      numjobs:
      - 1
      op_size: 16384
      pre_workload_script: /cvt.lee/tools/setup_cluster/mkdelvols.cbt
      total_iodepth:
      - 4
      - 8
      - 16
      - 32
      - 64
      - 96
      - 128
      - 256
      - 384
      - 512
```

```
- 768
- 1024
seq1Mwriteappend:
  jobname: seqwrite
  mode: write
  numjobs:
    - 1
  op_size: 1048576
  pre_workload_script: /cbt.lee/tools/setup_cluster/mkdelvols.cbt
  total_iodepth:
    - 1
    - 2
    - 3
    - 4
    - 8
    - 12
    - 16
    - 24
    - 32
    - 48
    - 64
seq256kwriteappend:
  jobname: seqwrite
  mode: write
  numjobs:
    - 1
  op_size: 262144
  pre_workload_script: /cbt.lee/tools/setup_cluster/mkdelvols.cbt
  total_iodepth:
    - 1
    - 2
    - 3
    - 4
    - 8
    - 16
    - 24
    - 32
    - 48
    - 64
    - 96
seq32kwriteappend:
  jobname: seqwrite
  mode: write
  numjobs:
    - 1
  op_size: 32768
  pre_workload_script: /cbt.lee/tools/setup_cluster/mkdelvols.cbt
  total_iodepth:
    - 2
    - 4
    - 8
    - 16
    - 32
    - 64
    - 96
    - 128
    - 256
    - 384
    - 512
    - 768
seq4kwriteappend:
  jobname: seqwrite
  mode: write
```



```

  numjobs:
  - 1
  op_size: 4096
  pre_workload_script: /cvt.lee/tools/setup_cluster/mkdelvols.cbt
  total_iodepth:
  - 4
  - 8
  - 16
  - 32
  - 64
  - 96
  - 128
  - 256
  - 384
  - 512
  - 768
  - 1024
  - 1280
seq512kwriteappend:
  jobname: seqwrite
  mode: write
  numjobs:
  - 1
  op_size: 524288
  pre_workload_script: /cvt.lee/tools/setup_cluster/mkdelvols.cbt
  total_iodepth:
  - 1
  - 2
  - 3
  - 4
  - 8
  - 16
  - 24
  - 32
  - 48
  - 64
  - 96
seq8kwriteappend:
  jobname: seqwrite
  mode: write
  numjobs:
  - 1
  op_size: 8192
  pre_workload_script: /cvt.lee/tools/setup_cluster/mkdelvols.cbt
  total_iodepth:
  - 4
  - 8
  - 16
  - 32
  - 64
  - 96
  - 128
  - 256
  - 384
  - 512
  - 768
  - 1024
  - 1280
cluster:
  archive_dir: /tmp/cvt
  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}
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
  prefill:
    blocksize: 64k
    numjobs: 1
  procs_per_volume:
  - 1
  ramp: 30
  time: 60
  time_based: true
  use_existing_volumes: true
  vol_size: 1000
  volumes_per_client:
  - 8
  workloads:
    64kseqwriteappend:
      jobname: write
      mode: write
      numjobs:
      - 1
      op_size: 65536
      pre_workload_script: /cbt.lee/tools/setup_cluster/mkdelvols.cbt
      total_iodepth:
      - 1

```

```

- 2
- 4
- 8
- 16
- 32
- 64
- 128
- 192
- 256
- 384
seq16kwriteappend:
  jobname: seqwrite
  mode: write
  numjobs:
    - 1
  op_size: 16384
  pre_workload_script: /cvt.lee/tools/setup_cluster/mkdelvols.cbt
  total_iodepth:
    - 4
    - 8
    - 16
    - 32
    - 64
    - 96
    - 128
    - 256
    - 384
    - 512
    - 768
    - 1024
seq1Mwriteappend:
  jobname: seqwrite
  mode: write
  numjobs:
    - 1
  op_size: 1048576
  pre_workload_script: /cvt.lee/tools/setup_cluster/mkdelvols.cbt
  total_iodepth:
    - 1
    - 2
    - 3
    - 4
    - 8
    - 12
    - 16
    - 24
    - 32
    - 48
    - 64
seq256kwriteappend:
  jobname: seqwrite
  mode: write
  numjobs:
    - 1
  op_size: 262144
  pre_workload_script: /cvt.lee/tools/setup_cluster/mkdelvols.cbt
  total_iodepth:
    - 1
    - 2
    - 3
    - 4
    - 8
    - 16

```

```

- 24
- 32
- 48
- 64
- 96
seq32kwriteappend:
  jobname: seqwrite
  mode: write
  numjobs:
    - 1
  op_size: 32768
  pre_workload_script: /cvt.lee/tools/setup_cluster/mkdelvols.cbt
  total_iodepth:
    - 2
    - 4
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    - 64
    - 96
    - 128
    - 256
    - 384
    - 512
    - 768
seq4kwriteappend:
  jobname: seqwrite
  mode: write
  numjobs:
    - 1
  op_size: 4096
  pre_workload_script: /cvt.lee/tools/setup_cluster/mkdelvols.cbt
  total_iodepth:
    - 4
    - 8
    - 16
    - 32
    - 64
    - 96
    - 128
    - 256
    - 384
    - 512
    - 768
    - 1024
    - 1280
seq512kwriteappend:
  jobname: seqwrite
  mode: write
  numjobs:
    - 1
  op_size: 524288
  pre_workload_script: /cvt.lee/tools/setup_cluster/mkdelvols.cbt
  total_iodepth:
    - 1
    - 2
    - 3
    - 4
    - 8
    - 16
    - 24
    - 32
    - 48

```

```

    - 64
    - 96
  seq8kwriteappend:
    jobname: seqwrite
    mode: write
    numjobs:
      - 1
    op_size: 8192
    pre_workload_script: /cvt.lee/tools/setup_cluster/mkdelvols.cbt
    total_iodepth:
      - 4
      - 8
      - 16
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      - 96
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      - 256
      - 384
      - 512
      - 768
      - 1024
      - 1280
  cluster:
    archive_dir: /tmp/cvt
    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: /cvt/ceph.conf.4x1x1.fs
    fs: xfs
    head: --- server1 ---
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        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/cvt
    use_existing: true
    user: root
  monitoring_profiles:
    collect1:
      args: -c 18 -sCD -i 10 -P -oz -F0 --rawtoo --sep "," -f {collect1_dir}

```