

Comparitive Performance Report for cbt-21stFeb-main-8vol-finegrain-cacheon- rbdoff-allappends vs cbt-21stFeb-ls19-8vol-finegrain-cacheon- rbdoff-allappends vs cbt-21stFeb-ls20-8vol-finegrain-cacheon- rbdoff-allappends vs cbt-21stFeb-ls21-8vol-finegrain-cacheon- rbdoff-allappends vs cbt-21stFeb-ls22-8vol-finegrain-cacheon- rbdoff-allappends vs cbt-20thFeb-ecoptmain-8vol-finegrain- cacheon-rbdoff-allappends3

Table of contents

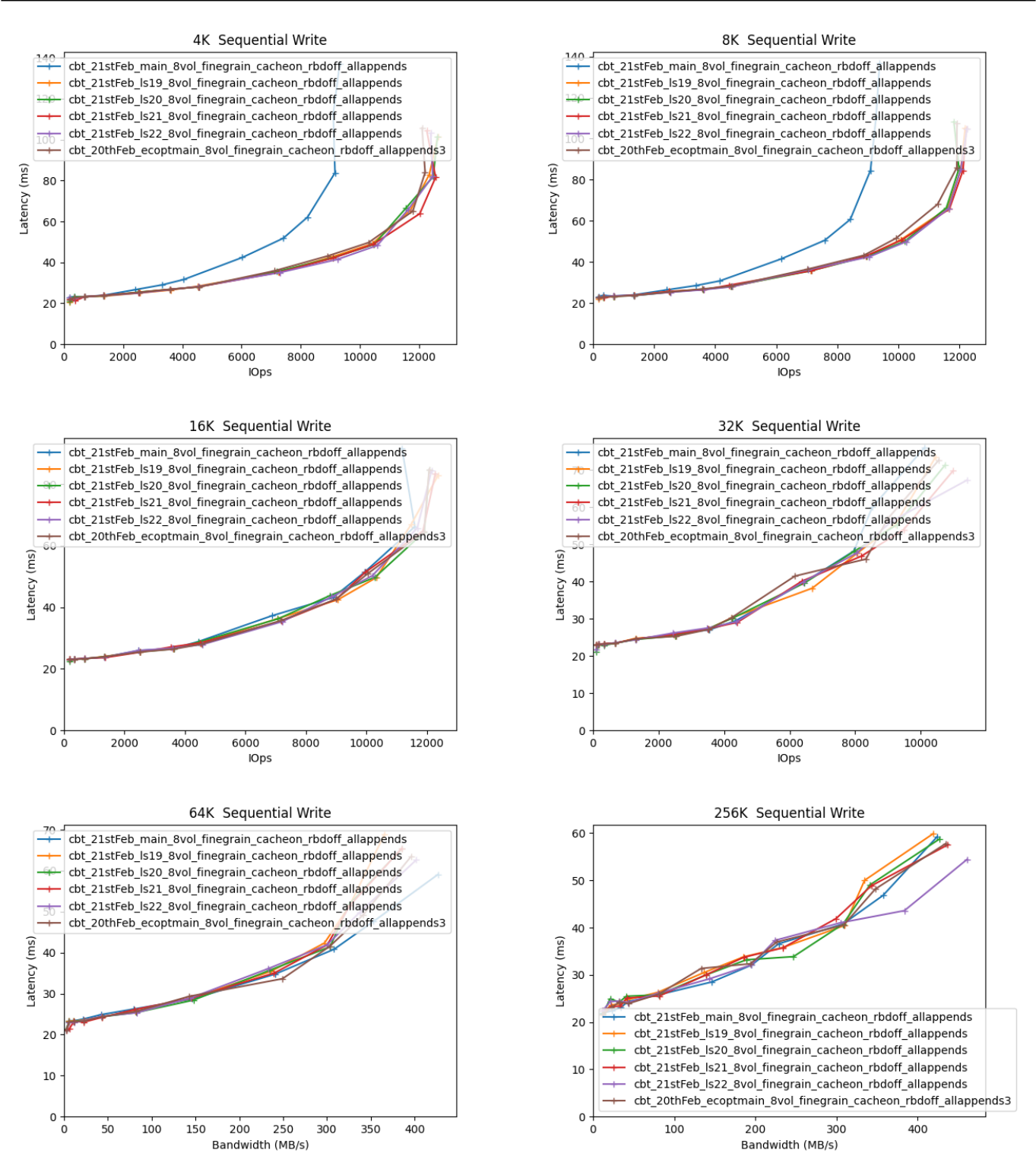
- Comparison summary for cbt-21stFeb-main-8vol-finegrain-cacheon-rbdoff-allappends vs cbt-21stFeb-ls19-8vol-finegrain-cacheon-rbdoff-allappends vs cbt-21stFeb-ls20-8vol-finegrain-cacheon-rbdoff-allappends vs cbt-21stFeb-ls21-8vol-finegrain-cacheon-rbdoff-allappends vs cbt-21stFeb-ls22-8vol-finegrain-cacheon-rbdoff-allappends vs cbt-20thFeb-ecoptmain-8vol-finegrain-cacheon-rbdoff-allappends3
- Response Curves
 - Sequential Write
- Configuration yaml files
 - results

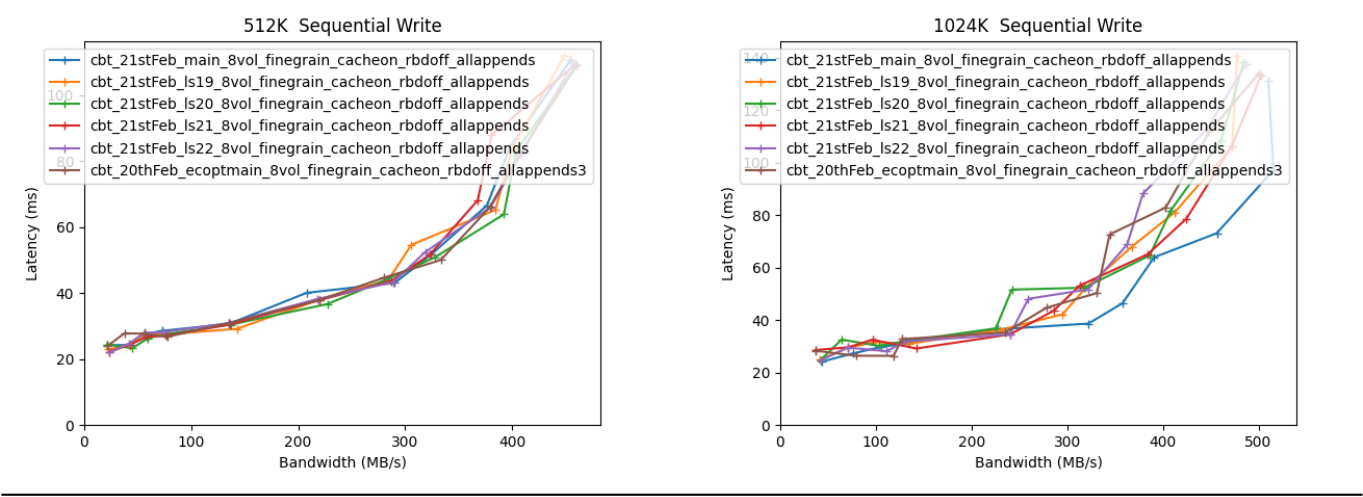
Comparison summary for
cbt-21stFeb-main-8vol-finegrain-cacheon-rbdoff-allappends vs
cbt-21stFeb-ls19-8vol-finegrain-cacheon-rbdoff-allappends vs
cbt-21stFeb-ls20-8vol-finegrain-cacheon-rbdoff-allappends vs
cbt-21stFeb-ls21-8vol-finegrain-cacheon-rbdoff-allappends vs
cbt-21stFeb-ls22-8vol-finegrain-cacheon-rbdoff-allappends vs
cbt-20thFeb-ecoptmain-8vol-finegrain-cacheon-rbdoff-allappends3

Sequential											
Write	cbt_21stFeb-main-8vol-finegrain-cacheon-rbdoff-allappends	cbt-21stFeb-ls19-8vol-finegrain-cacheon-rbdoff-allappends	cbt-21stFeb-ls20-8vol-finegrain-cacheon-rbdoff-allappends	cbt-21stFeb-ls21-8vol-finegrain-cacheon-rbdoff-allappends	cbt-21stFeb-ls22-8vol-finegrain-cacheon-rbdoff-allappends	cbt-20thFeb-ecoptmain-8vol-finegrain-cacheon-rbdoff-allappends3	cbt-21stFeb-main-8vol-finegrain-cacheon-rbdoff-allappends	cbt-21stFeb-ls19-8vol-finegrain-cacheon-rbdoff-allappends	cbt-21stFeb-ls20-8vol-finegrain-cacheon-rbdoff-allappends	cbt-21stFeb-ls21-8vol-finegrain-cacheon-rbdoff-allappends	cbt-21stFeb-ls22-8vol-finegrain-cacheon-rbdoff-allappends
4K	9324@137.12642@101.336%	12626@101.335%	12565@81.6 35%	12466@82.1 34%	12209@84.0 31%		9324@137.12642@101.336%	12626@101.335%	12565@81.6 35%	12466@82.1 34%	12209@84.0 31%
8K	9385@136.12187@105.130%	11984@85.4 28%	12230@104.630%	12245@104.630%	11919@107.327%		9385@136.12187@105.130%	11984@85.4 28%	12230@104.630%	12245@104.630%	11919@107.327%
16K	11601@66.2364@82.8 7%	12078@84.7 4%	12278@83.3 6%	12151@84.3 5%	12074@84.8 4%		11601@66.2364@82.8 7%	12078@84.7 4%	12278@83.3 6%	12151@84.3 5%	12074@84.8 4%
32K	10105@75.10450@73.5 3%	10746@71.4 6%	10989@69.9 9%	11406@67.3 13%	10555@72.7 4%		10105@75.10450@73.5 3%	10746@71.4 6%	10989@69.9 9%	11406@67.3 13%	10555@72.7 4%
64K	426@59.0366@68.8 -14%	385@65.3 -10%	385@65.4 -10%	402@62.6 -6%	396@63.5 -7%		426@59.0366@68.8 -14%	385@65.3 -10%	385@65.4 -10%	402@62.6 -6%	396@63.5 -7%
256K	424@59.2419@59.9 -1%	427@58.8 1%	437@57.5 3%	461@54.5 9%	435@57.8 3%		424@59.2419@59.9 -1%	427@58.8 1%	437@57.5 3%	461@54.5 9%	435@57.8 3%
512K	455@110.6449@112.0 -1%	461@109.2 1%	459@109.4 1%	457@109.9 0%	461@109.1 1%		455@110.6449@112.0 -1%	461@109.2 1%	459@109.4 1%	457@109.9 0%	461@109.1 1%
1024K	516@97.2478@140.5 -7%	485@138.3 -6%	503@133.2 -3%	487@137.5 -6%	500@133.9 -3%		516@97.2478@140.5 -7%	485@138.3 -6%	503@133.2 -3%	487@137.5 -6%	500@133.9 -3%

Response Curves

Sequential Write





results

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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: /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

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- 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
    - 8
    - 16
    - 32
    - 64
    - 96
    - 128
    - 256
    - 384
    - 512
    - 768
seq4kwriteappend:
  jobname: seqwrite
  mode: write

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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

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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
  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
    - 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: /cvt/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/cvt
  use_existing: true
  user: root
monitoring_profiles:
  collect1:
    args: -c 18 -sCD -i 10 -P -oz -FO --rawtoo --sep "," -f {collect1_dir}

```