

Comparitive Performance Report for cbt-6thMar-ecoptmain-4k-8vol-cacheon- rbdoff-isal-appends vs cbt-6thMar-ls26-appends

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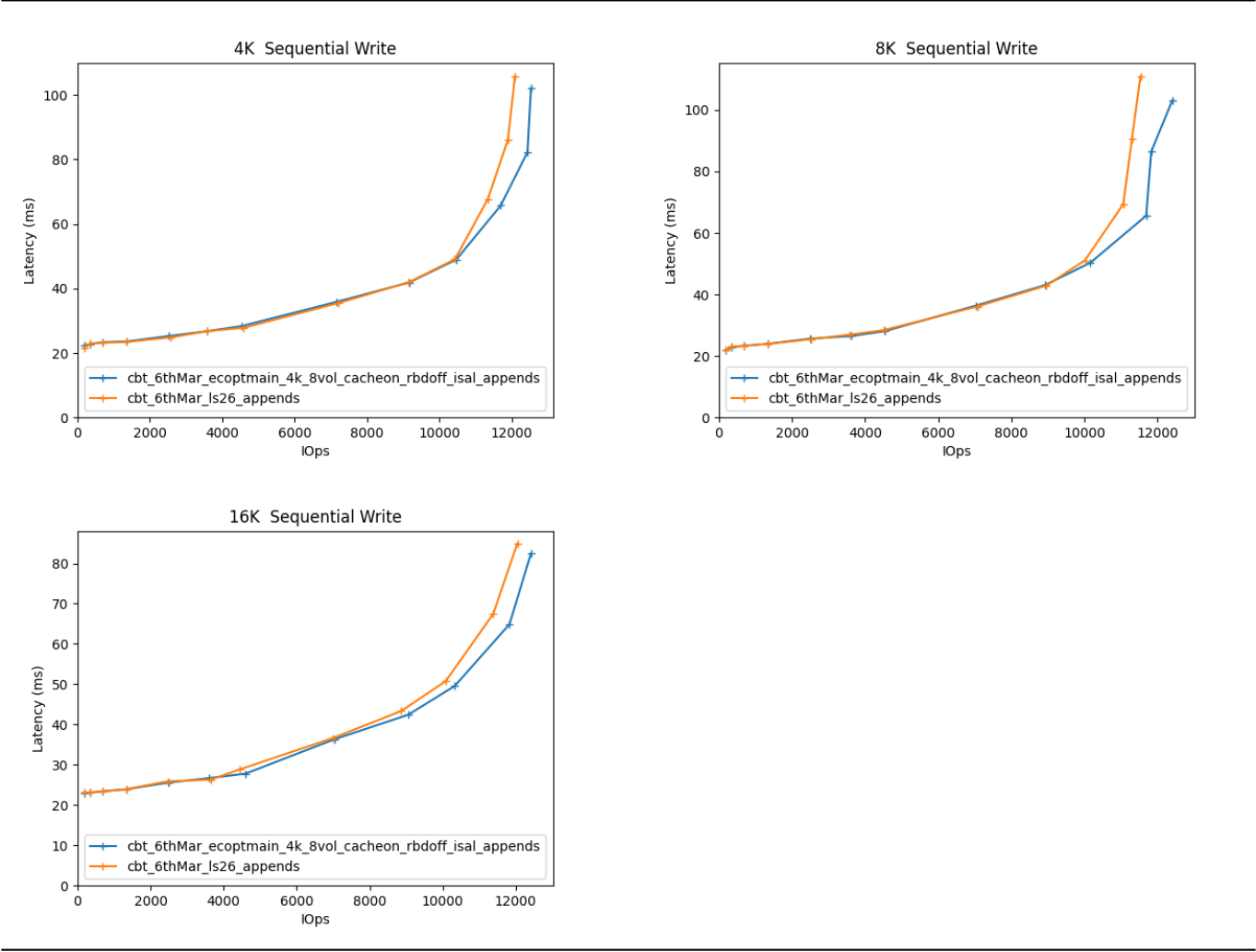
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 - results

Comparison summary for cbt-6thMar-ecoptmain-4k-8vol-cacheon- rbdoff-isal-appends vs cbt-6thMar-ls26-appends

Sequential Write	cbt_6thMar_ecoptmain-4k-8vol-cacheon-rbdoff-isal-appends	cbt_6thMar_ls26-appends	%change throughput	%change latency
4K	12533 IOps@102.0ms	12092 IOps@105.8ms	-4%	4%
8K	12409 IOps@103.1ms	11538 IOps@110.9ms	-7%	8%
16K	12417 IOps@82.4ms	12047 IOps@85.0ms	-3%	3%

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

```
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: /cbt.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
```

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  numjobs:
  - 1
  op_size: 4096
  pre_workload_script: /cbt.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: /cbt.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: /cbt.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/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
  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: /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: /cbt.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: /cbt.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: /cbt.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/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:
    collect1:
      args: -c 18 -sCD -i 10 -P -oz -F0 --rawtoo --sep "," -f {collect1_dir}

```

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:
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        - 256
        - 384
        - 512
        - 768
        - 1024
    seq4kwriteappend:
      jobname: seqwrite
      mode: write
      numjobs:
        - 1
      op_size: 4096
      pre_workload_script: /cbt.lee/tools/setup_cluster/mkdelvols.cbt
      total_iodepth:
        - 4
        - 8
        - 16
        - 32
        - 64
        - 96
        - 128
        - 256
        - 384

```

```

- 512
- 768
- 1024
- 1280
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  jobname: seqwrite
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  ceph_cmd: /usr/bin/ceph
  clients:
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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/cbt
  use_existing: true
  user: root
monitoring_profiles:
  collect1:
    args: -c 18 -sCD -i 10 -P -oz -FO --rawtoo --sep "," -f {collect1_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:
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time: 60
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    mode: write
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      - 1
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    total_iodepth:
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      - 8
      - 16
      - 32
      - 64
      - 96
      - 128
      - 256
      - 384
      - 512
      - 768
      - 1024
  seq4kwriteappend:
    jobname: seqwrite
    mode: write
    numjobs:
      - 1
    op_size: 4096
    pre_workload_script: /cbt.lee/tools/setup_cluster/mkdelvols.cbt
    total_iodepth:
      - 4
      - 8
      - 16
      - 32
      - 64
      - 96
      - 128
      - 256
      - 384
      - 512
      - 768
      - 1024
      - 1280
  seq8kwriteappend:

```

```

    jobname: seqwrite
    mode: write
    numjobs:
      - 1
    op_size: 8192
    pre_workload_script: /cbt.lee/tools/setup_cluster/mkdelvols.cbt
    total_iodepth:
      - 4
      - 8
      - 16
      - 32
      - 64
      - 96
      - 128
      - 256
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      - 512
      - 768
      - 1024
      - 1280
cluster:
  archive_dir: /tmp/cbt
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  ceph_osd_cmd: /usr/bin/ceph-osd
  ceph_run_cmd: /usr/bin/ceph-run
  ceph_cmd: /usr/bin/ceph
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  clusterid: ceph
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  fs: xfs
  head: --- server1 ---
  iterations: 1
  mgrs:
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      a: null
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  mons:
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  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}

```