Comparitive Performance Report for cbt-15thNov25-4k-o01-6+2-squid-appends-chopped vs
cbt-15thNov25-16k-o01-2+2-tentacle-appends-chopped vs cbt-15thNov25-16k-o01-4+2-tentacle-appends-chopped vs
cbt-15thNov25-16k-o01-6+2-tentacle-appends-chopped

Comparitive Performance Report for cbt-15thNov25-4k-o01-6+2-squid-appends-chopped vs cbt-15thNov25-16k-o01-2+2-tentacle-appends-chopped vs cbt-15thNov25-16k-o01-4+2-tentacle-appends-chopped vs cbt-15thNov25-16k-o01-6+2-tentacle-appends-chopped

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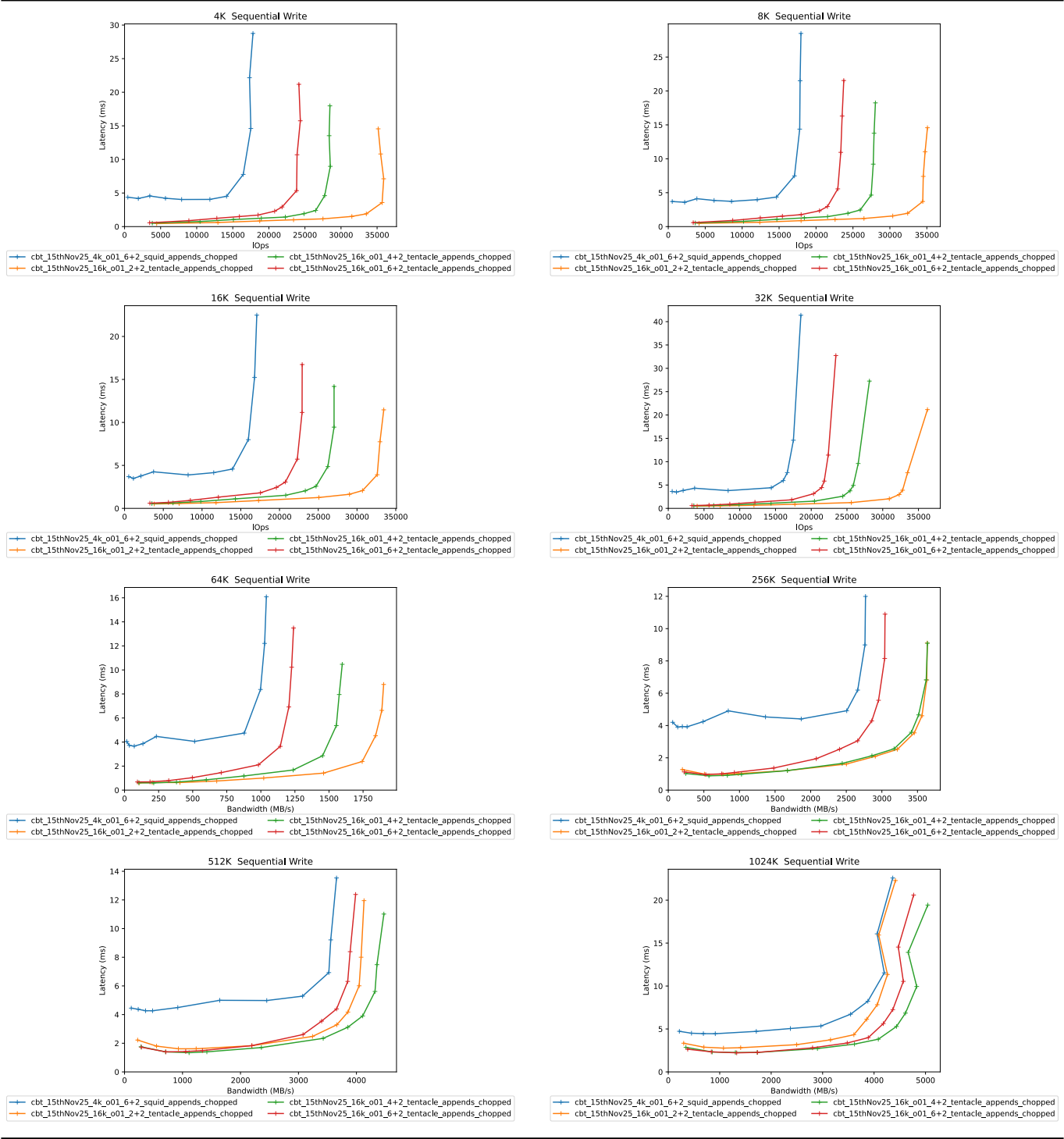
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Comparison summary for cbt-15thNov25-4k-o01-6+2-squid-appends-chopped vs
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Sequential Write	cbt_15thNov25_4k_o01_6+2_squid_appends_chopped	cbt_15thNov25_16k_o01_2+2_tentacle_appends_chopped	%change	cbt_15thNov25_16k_o01_4+2_tentacle_appends_chopped	%change	cbt_15thNov25_16k_o01_6+2_tentacle_appends_chopped	%change
4K	17798@28.8ms	35916@7.1	102%	28514@9.0	60%	24360@15.8	37%
8K	17963@28.5ms	35085@14.6	95%	28040@18.2	56%	23755@21.5	32%
16K	17067@22.5ms	33451@11.5	96%	27040@14.2	58%	22926@16.7	34%
32K	18551@41.4ms	36259@21.2	95%	28140@27.3	52%	23445@32.7	26%
64K	1041@16.1ms	1901@8.8	83%	1597@10.5	53%	1240@13.5	19%
256K	2770@12.0ms	3637@9.1	31%	3640@9.1	31%	3044@10.9	10%
512K	3657@13.5ms	4131@12.0	13%	4473@11.0	22%	3986@12.4	9%
1024K	4363@22.6ms	4416@22.3	1%	5044@19.4	16%	4769@20.6	9%

cbt-15thNov25-4k-o01-6+2-squid-appends-chopped vs cbt-15thNov25-16k-o01-2+2-tentacle-appends-chopped vs
cbt-15thNov25-16k-o01-4+2-tentacle-appends-chopped vs cbt-15thNov25-16k-o01-6+2-tentacle-appends-chopped

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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

cbt-15thNov25-4k-o01-6+2-squid-appends-chopped vs cbt-15thNov25-16k-o01-2+2-tentacle-appends-chopped vs cbt-15thNov25-16k-o01-4+2-tentacle-appends-chopped vs cbt-15thNov25-16k-o01-6+2-tentacle-appends-chopped

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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
  rbdname: cbt-librbdfio
  time: 90
  time_based: true
  use_existing_volumes: true
  vol_size: 1000
  volumes_per_client:
  - 16
  wait_pgautoscaler_timeout: 20
  workloads:
    64kseqwriteappend:
      jobname: write
      mode: write
      numjobs:
      - 1
      op_size: 65536
      pre_workload_script: sudo /home/ljsanders/scripts/mkdelvols.cbt
      total_iodepth:
      - 1
      - 2
      - 4
      - 8
      - 16
      - 32
      - 64
      - 128
      - 192
      - 256
      - 384
      - 512
    seq16kwriteappend:
      jobname: seqwrite
      mode: write
      numjobs:
      - 1
      op_size: 16384
      pre_workload_script: sudo /home/ljsanders/scripts/mkdelvols.cbt
      total_iodepth:
      - 2
      - 4
      - 8
      - 16
      - 32
      - 48
      - 64
```

```
        - 128
        - 256
        - 384
        - 512
        - 768
        - 1024
    seq1Mwriteappend:
      jobname: seqwrite
      mode: write
      numjobs:
      - 1
      op_size: 1048576
      pre_workload_script: sudo /home/ljsanders/scripts/mkdelvols.cbt
      total_iodepth:
      - 1
      - 2
      - 3
      - 4
      - 8
      - 12
      - 16
      - 24
      - 32
      - 48
      - 64
      - 96
      - 128
      - 160
    seq256kwriteappend:
      jobname: seqwrite
      mode: write
      numjobs:
      - 1
      op_size: 262144
      pre_workload_script: sudo /home/ljsanders/scripts/mkdelvols.cbt
      total_iodepth:
      - 1
      - 2
      - 3
      - 4
      - 8
      - 16
      - 24
      - 32
      - 48
      - 64
      - 96
      - 128
      - 256
    seq32kwriteappend:
      jobname: seqwrite
      mode: write
      numjobs:
      - 1
      op_size: 32768
      pre_workload_script: sudo /home/ljsanders/scripts/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: sudo /home/ljsanders/scripts/mkdelvols.cbt
        total_iodepth:
        - 2
        - 8
        - 16
        - 24
        - 32
        - 48
        - 64
        - 128
        - 256
        - 384
        - 512
        - 768
        - 1024
        - 1280
        - 1536
      seq512kwriteappend:
        jobname: seqwrite
        mode: write
        numjobs:
        - 1
        op_size: 524288
        pre_workload_script: sudo /home/ljsanders/scripts/mkdelvols.cbt
        total_iodepth:
        - 1
        - 2
        - 3
        - 4
        - 8
        - 16
        - 24
        - 32
        - 48
        - 64
        - 96
        - 128
        - 160
      seq8kwriteappend:
        jobname: seqwrite
        mode: write
        numjobs:
        - 1
        op_size: 8192
        pre_workload_script: sudo /home/ljsanders/scripts/mkdelvols.cbt
        total_iodepth:
        - 2
        - 8
        - 16
        - 24
        - 32
```

```
          - 48
          - 64
          - 128
          - 256
          - 384
          - 512
          - 768
          - 1024
          - 1280
          - 1536
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: /etc/ceph/ceph.conf
  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: 8
  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: ljsanders
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
    prefill:
      blocksize: 64k
      numjobs: 1
    procs_per_volume:
    - 1
    ramp: 30
    rbdname: cbt-librbdfio
```

```
time: 90
time_based: true
use_existing_volumes: true
vol_size: 1000
volumes_per_client:
- 16
wait_pgautoscaler_timeout: 20
workloads:
  64kseqwriteappend:
    jobname: write
    mode: write
    numjobs:
    - 1
    op_size: 65536
    pre_workload_script: sudo /home/ljsanders/scripts/mkdelvols.cbt
    total_iodepth:
    - 1
    - 2
    - 4
    - 8
    - 16
    - 32
    - 64
    - 128
    - 192
    - 256
    - 384
    - 512
  seq16kwriteappend:
    jobname: seqwrite
    mode: write
    numjobs:
    - 1
    op_size: 16384
    pre_workload_script: sudo /home/ljsanders/scripts/mkdelvols.cbt
    total_iodepth:
    - 2
    - 4
    - 8
    - 16
    - 32
    - 48
    - 64
    - 128
    - 256
    - 384
    - 512
    - 768
    - 1024
  seq1Mwriteappend:
    jobname: seqwrite
    mode: write
    numjobs:
    - 1
    op_size: 1048576
    pre_workload_script: sudo /home/ljsanders/scripts/mkdelvols.cbt
    total_iodepth:
    - 1
    - 2
    - 3
    - 4
    - 8
    - 12
```

```
                    - 16
                    - 24
                    - 32
                    - 48
                    - 64
                    - 96
                    - 128
                    - 160
            seq256kwriteappend:
              jobname: seqwrite
              mode: write
              numjobs:
              - 1
              op_size: 262144
              pre_workload_script: sudo /home/ljsanders/scripts/mkdelvols.cbt
              total_iodepth:
              - 1
              - 2
              - 3
              - 4
              - 8
              - 16
              - 24
              - 32
              - 48
              - 64
              - 96
              - 128
              - 256
            seq32kwriteappend:
              jobname: seqwrite
              mode: write
              numjobs:
              - 1
              op_size: 32768
              pre_workload_script: sudo /home/ljsanders/scripts/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: sudo /home/ljsanders/scripts/mkdelvols.cbt
              total_iodepth:
              - 2
              - 8
              - 16
              - 24
              - 32
              - 48
```

```
              - 64
              - 128
              - 256
              - 384
              - 512
              - 768
              - 1024
              - 1280
              - 1536
          seq512kwriteappend:
            jobname: seqwrite
            mode: write
            numjobs:
            - 1
            op_size: 524288
            pre_workload_script: sudo /home/ljsanders/scripts/mkdelvols.cbt
            total_iodepth:
            - 1
            - 2
            - 3
            - 4
            - 8
            - 16
            - 24
            - 32
            - 48
            - 64
            - 96
            - 128
            - 160
          seq8kwriteappend:
            jobname: seqwrite
            mode: write
            numjobs:
            - 1
            op_size: 8192
            pre_workload_script: sudo /home/ljsanders/scripts/mkdelvols.cbt
            total_iodepth:
            - 2
            - 8
            - 16
            - 24
            - 32
            - 48
            - 64
            - 128
            - 256
            - 384
            - 512
            - 768
            - 1024
            - 1280
            - 1536
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: /etc/ceph/ceph.conf
    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: 8
    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: ljsanders
monitoring_profiles:
  collectl:
    args: -c 18 -sCD -i 10 -P -oz -F0 --rawtoo --sep ";" -f {collectl_dir}
```