Comparitive Performance Report for cbt-27thAug-o01-3way-tentacle-balanced vs cbt-2ndSep-o01-3way-tentacle-balanced-balanced-pg256 vs cbt-3rdSep-o01-3way-tentacle-balance-pg256-retry

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# Comparison summary for cbt-27thAug-o01-3way-tentacle-balanced vs cbt-2ndSep-o01-3way-tentacle-balanced-balanced-pg256 vs cbt-3rdSep-o01-3way-tentacle-balance-pg256-retry

Sequential Read	cbt_27thAug_o01_	3 way 2 neb Stepe leo Otal 3 weed	tent <b>%dhahgl</b> anc <b>e</b> dt	<b>ph/25</b> 6ep_o01_3way_	_tenta%khabaykance_pg
4.0K	233243@1.6ms	253175@1.5	9%	253827@1.5	$\overline{9\%}$
$8.0 \mathrm{K}$	218186@1.8ms	233032@1.6	7%	232979@1.6	7%
16.0K	198882@1.4ms	206508@1.4	4%	205609@1.4	3%
32.0K	149566@1.3ms	151108@1.3	1%	150844@1.3	1%
64.0K	7786@2.1ms	7553@2.2	-3%	7521@2.2	-3%
256.0K	11159@1.5ms	10253@1.6	-8%	10277@1.6	-8%
512.0K	9144@1.8ms	8614@1.9	-6%	8604@1.9	-6%
1024.0 K	7178@2.9ms	6951@3.0	-3%	6967@3.0	-3%

Sequential Write	$cbt\_27thAug\_o01$	3 kvay 2 meh Stepe leo Otlal 3 mæyd	_tent <b>%dhahgl</b> anc <b>el</b> t_	<b>_p3g2556</b> epo013	Bway_tenta&khakakance_p
4.0K	510965@3.0ms	510595@3.0	-0%	509023@3.0	-0%
8.0K	334276@4.6ms	334850@4.6	0%	334229@4.6	-0%
16.0K	184493@5.5ms	183265@5.6	-1%	182063@5.6	-1%
32.0 K	103026@7.4ms	103442@7.4	0%	102748@7.5	-0%
64.0K	3534@9.5ms	3499@9.6	-1%	3481@9.6	-1%
256.0 K	3949@16.9ms	3905@17.1	-1%	3885@8.5	-2%
512.0 K	4087@8.0 ms	4038@8.1	-1%	4074@3.9	-0%
1024.0 K	4020@16.2 ms	4172@15.5	4%	4196@15.4	4%

Random Read	cbt_27thAug_o01_	3dvay 2melStepcleoOtal3mæyd	tent <b>%de<u>a</u>hgl</b> anc <b>e</b> bt	_p <b>g2l56</b> ep_o01_	3way_tenta%khabaykance_
4.0K	216530@3.5ms	231635@3.3	7%	229700@3.3	6%
8.0K	209775@3.7ms	193076@4.0	-8%	193317@4.0	-8%
16.0K	193403@3.0ms	160853@3.6	-17%	160276@1.6	-17%
32.0 K	159835@3.2ms	118872@1.1	-26%	124532@1.0	-22%
64.0 K	8100@3.1ms	5927@2.8	-27%	6015@4.2	-26%
256.0K	13168@2.5ms	9902@3.4	-25%	9603@3.5	-27%
512.0K	12732@2.6ms	10856@3.1	-15%	10763@3.1	-15%
$1024.0\mathrm{K}$	10192@3.3ms	9634@3.5	-5%	9561@3.5	-6%

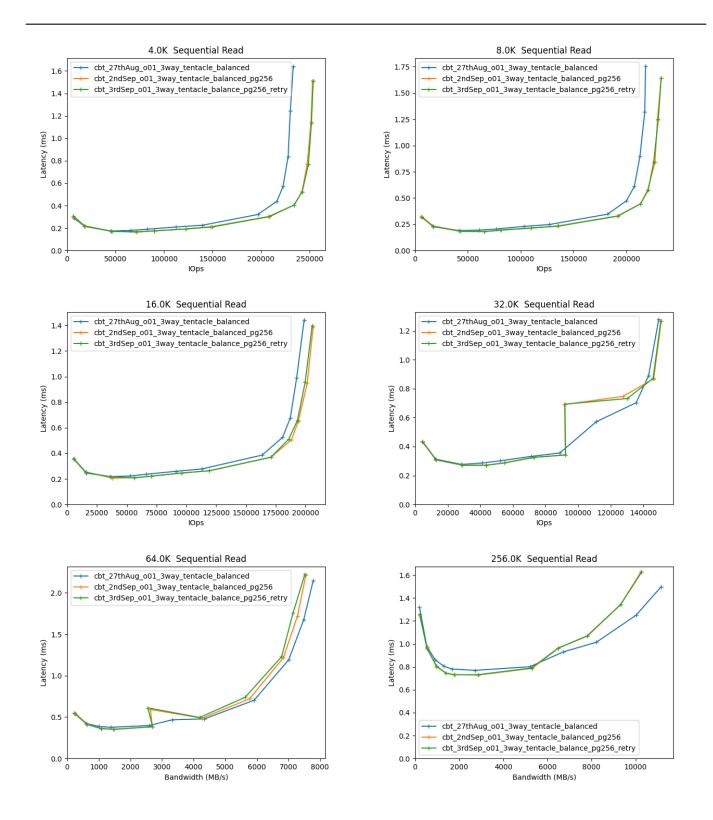
 $Comparison\ summary\ for\ cbt-27th Aug-o01-3 way-tentacle-balanced\ vs\ cbt-2nd Sep-o01-3 way-tentacle-balanced-pg 256\ vs\ cbt-3rd Sep-o01-3 way-tentacle-balance-pg 256-retry$ 

Random Write	cbt_27thAug_o01_	3dvay 2nedStepcleoOtal3nceyd	tent <b>%de<u>a</u>hg</b> lanc <b>e</b> dt	_p <b>3g2556</b> ep_o01_3way_	_tenta <b>%k<u>h</u>abada</b> nce_p
4.0K	51182@5.0ms	57083@13.5	12%	57054@13.4	11%
8.0K	48579@10.5 ms	51427@9.9	6%	50875@10.0	5%
16.0 K	45875@11.1ms	49772@10.3	8%	50841@10.1	11%
32.0K	43891@8.7ms	46477@11.0	6%	45459@11.2	4%
64.0 K	2428@10.3 ms	2466@10.2	2%	2338@10.7	-4%
$256.0 \mathrm{K}$	4064@4.0ms	4078@6.0	0%	3986@6.2	-2%
512.0 K	4501@7.2ms	4544@7.1	1%	4508@7.2	0%
1024.0 K	4174@5.6ms	4049@7.8	-3%	4152@5.6	-1%

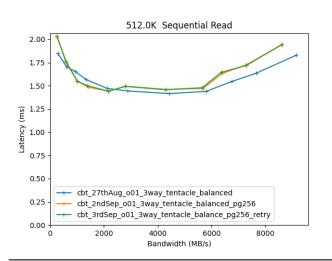
Random Read/Write	cbt_27thAug_o01_	3 way 2 nelstere leo Otial 3 weed	_tent <b>%de<u>na</u>hgl</b> anc <b>e</b> dt_	<b>ph/256</b> ep_o01_3way_	_tenta <b>%lehaloada</b> nce_p
4.0K_70/30	94949@4.0ms	103021@2.5	9%	104665@2.4	10%
$16.0 \mathrm{K}_{-}70/30$	87433@2.9ms	88588@2.9	1%	85847@3.0	-2%
$64.0 \text{K}_{-}70/30$	4287@3.9ms	3974@4.2	-7%	3858@4.3	-10%
64.0K_30/70	2901@5.7ms	2919@5.7	1%	2926@5.7	1%

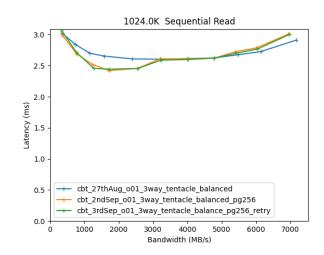
# Response Curves

### Sequential Read

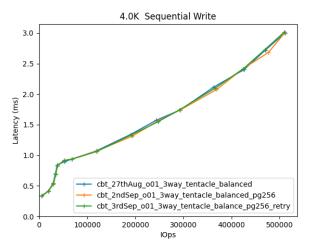


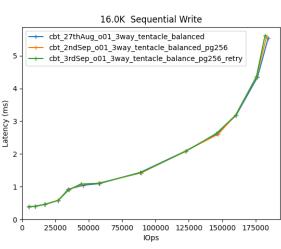
Response Curves Sequential Write

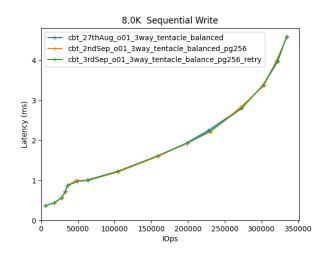


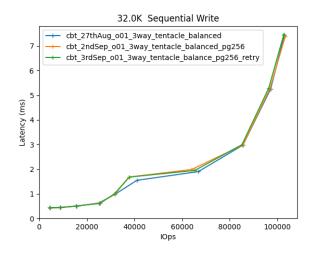


### Sequential Write

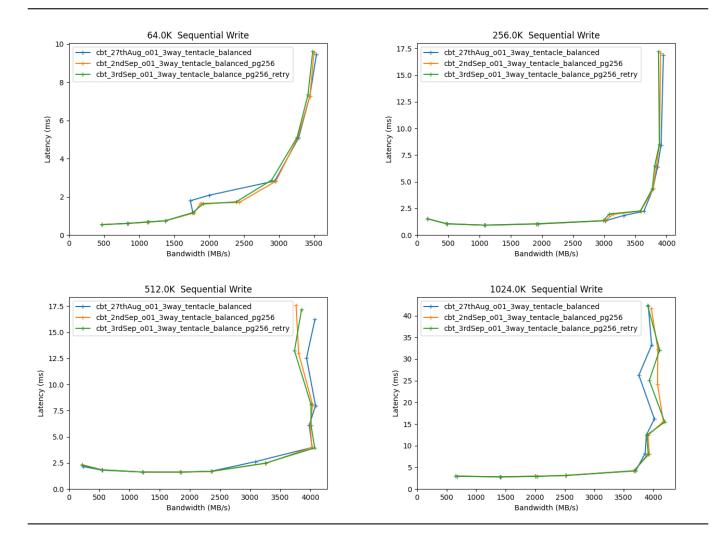




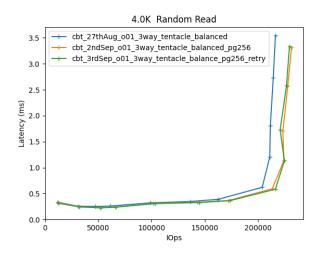


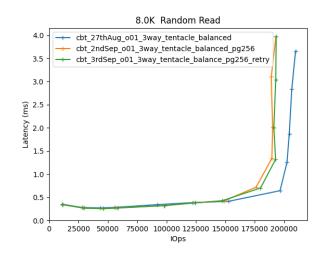


Response Curves Random Read

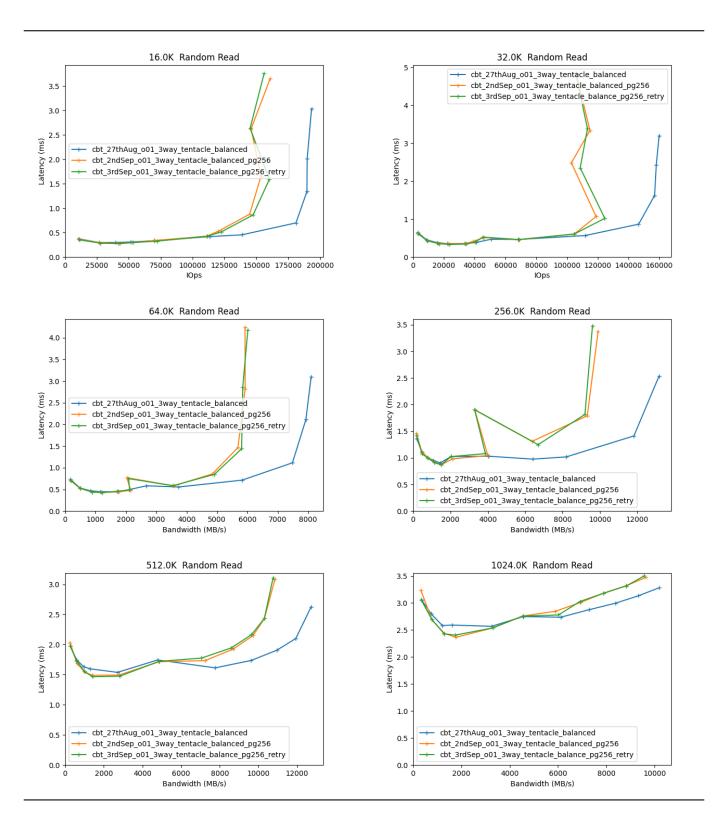


### Random Read



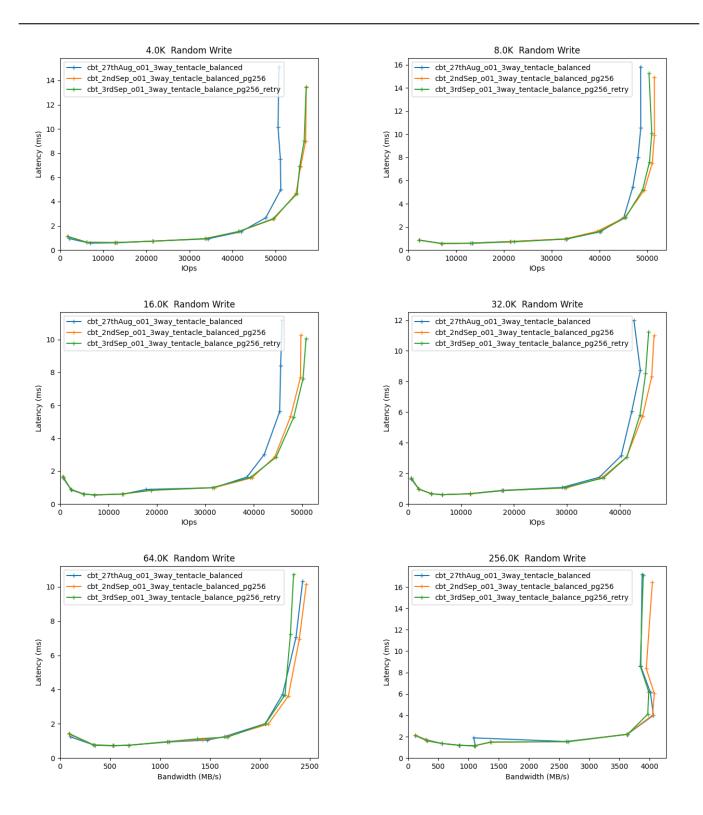


Response Curves Random Write

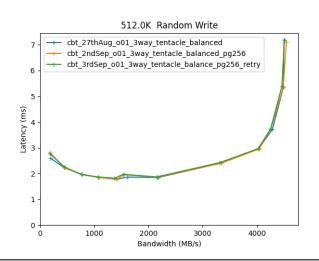


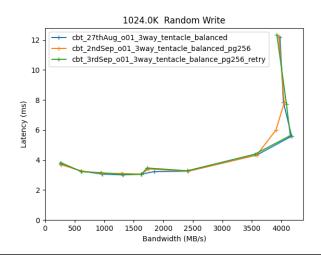
### Random Write

Response Curves Random Write

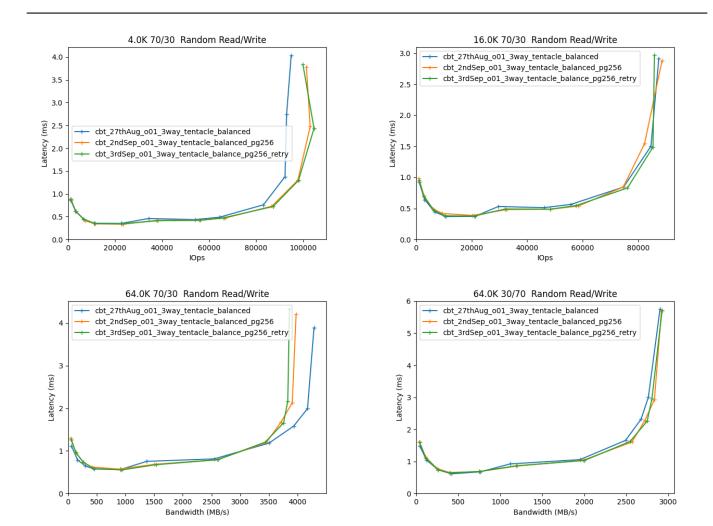


Response Curves Random Read/Write





### 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/fio2
  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: 608333
  volumes_per_client:
  - 16
  workloads:
    16k7030:
      jobname: randmix
      mode: randrw
      numjobs:
      op_size: 16384
      rwmixread: 70
      total_iodepth:
      - 1
      - 2
      - 3
      - 4
      - 8
      - 16
      - 24
      - 32
      - 64
      - 128
      - 256
    16krandomread:
      jobname: randread
      mode: randread
      numjobs:
      - 1
      op_size: 16384
      total_iodepth:
      - 8
      - 12
      - 16
      - 24
      - 48
      - 64
      - 128
      - 256
      - 384
```

```
- 588
16krandomwrite:
  jobname: randwrite
 mode: randwrite
 numjobs:
  - 1
  op_size: 16384
  total_iodepth:
  - 2
  - 3
  - 4
  - 8
  - 16
  - 32
  - 64
  - 128
  - 256
  - 384
  - 512
1Mrandomread:
  jobname: randread
 mode: randread
 numjobs:
  - 1
 op_size: 1048576
  total_iodepth:
  - 1
  - 2
  - 3
  - 4
  - 8
  - 12
  - 16
  - 20
  - 24
  - 28
  - 32
1Mrandomwrite:
  jobname: randwrite
 mode: randwrite
 numjobs:
  - 1
  op_size: 1048576
  total_iodepth:
  - 1
  - 2
  - 3
  - 4
  - 5
  - 6
  - 8
  - 16
  - 24
  - 32
  - 48
1Mseqread:
  jobname: seqread
 mode: read
 numjobs:
  - 1
  op_size: 1048576
  total_iodepth:
```

- 1 - 2 - 3 - 4 - 6 - 8 - 10 - 12 - 14 - 16 - 20 1Mseqwrite: jobname: seqwrite mode: write numjobs: - 1 op\_size: 1048576 total\_iodepth: - 2 - 4 - 6 - 8 - 16 - 32 - 48 - 64 - 96 - 128 - 160 256krandomread: jobname: randread mode: randread numjobs: - 1 op\_size: 262144 total\_iodepth: - 1 - 2 - 3 - 4 - 5 - 8 - 16 - 24 - 32 - 64 - 128 256krandomwrite: jobname: randwrite mode: randwrite numjobs: - 1 op\_size: 262144 total\_iodepth: - 1 - 2 - 3 - 4 - 5 - 8 - 16 - 32

- 64

- 96 - 128 - 256 32krandomread: jobname: randread mode: randread numjobs: - 1 op\_size: 32768 total\_iodepth: - 2 - 4 - 6 - 8 - 12 - 16 - 24 - 32 - 64 - 128 - 256 - 384 - 512 32krandomwrite: jobname: randwrite mode: randwrite numjobs: - 1 op\_size: 32768 total\_iodepth: - 1 - 2 - 3 - 4 - 8 - 16 - 32 - 64 - 128 - 256 - 384 - 512 4k7030: jobname: randmix mode: randrw numjobs: - 1 op\_size: 4096 rwmixread: 70 total\_iodepth: - 1 - 2 - 3 - 4 - 8 - 16 - 24 - 32 - 64 - 128 - 256 - 384 4krandomread:

cbt-3rdSep-o01-3way-tentacle-balance-pg256-retry

```
jobname: randread
  mode: randread
 numjobs:
  - 1
  op_size: 4096
  total_iodepth:
  - 4
  - 8
  - 12
  - 16
  - 32
  - 48
  - 64
  - 128
  - 256
  - 384
  - 588
  - 768
4krandomwrite:
  jobname: randwrite
 mode: randwrite
 numjobs:
  - 1
  op_size: 4096
  total_iodepth:
  - 4
  - 8
  - 16
  - 32
  - 64
  - 128
  - 256
  - 384
  - 512
  - 768
512krandomread:
  jobname: randread
 mode: randread
 numjobs:
  - 1
  op_size: 524288
  total_iodepth:
  - 1
  - 2
  - 3
  - 4
  - 8
  - 16
  - 24
  - 32
  - 40
  - 48
  - 64
512krandomwrite:
  jobname: randwrite
 mode: randwrite
 numjobs:
  - 1
 op_size: 524288
 total_iodepth:
  - 1
  - 2
```

- 3 - 4 - 5 - 6 - 8 - 16 - 24 - 32 - 48 - 64 512kseqread: jobname: seqread mode: read numjobs: - 1 op\_size: 524288 total\_iodepth: - 1 - 2 - 3 - 4 - 6 - 8 - 12 - 16 - 20 - 24 - 32 512kseqwrite: jobname: seqwrite mode: write numjobs: - 1 op\_size: 524288 total\_iodepth: - 1 - 2 - 4 - 6 - 8 - 16 - 32 - 48 - 64 - 96 - 128 64k3070: jobname: randmix mode: randrw numjobs: - 1 op\_size: 65536 rwmixread: 30 total\_iodepth: - 1 - 2 - 3 - 4 - 8 - 16 - 32 - 64 - 96

```
- 128
  - 256
64k7030:
  jobname: randmix
 mode: randrw
 numjobs:
  - 1
  op_size: 65536
  rwmixread: 70
  total_iodepth:
  - 1
  - 2
  - 3
  - 4
  - 8
  - 16
  - 32
  - 64
  - 96
  - 128
  - 256
64krandomread:
  jobname: randread
 mode: randread
 numjobs:
  - 1
  op_size: 65536
  total_iodepth:
  - 2
  - 4
  - 6
  - 8
  - 12
  - 16
  - 24
  - 32
  - 64
  - 128
  - 256
  - 384
64krandomwrite:
  jobname: randwrite
 mode: randwrite
 numjobs:
  - 1
  op_size: 65536
  total_iodepth:
  - 2
  - 4
  - 6
  - 8
  - 16
  - 24
  - 32
  - 64
  - 128
  - 256
  - 384
64kseqread:
  jobname: read
 mode: read
 numjobs:
```

- 1

```
op_size: 65536
  total_iodepth:
  - 2
  - 4
  - 6
  - 8
  - 16
  - 24
  - 32
  - 64
  - 128
  - 192
  - 256
64kseqwrite:
  jobname: write
 mode: write
 numjobs:
  - 1
 op_size: 65536
  total_iodepth:
  - 4
  - 8
  - 12
  - 16
  - 32
  - 48
  - 64
  - 128
  - 256
  - 384
  - 512
8krandomread:
  jobname: randread
 mode: randread
 numjobs:
  - 1
  op_size: 8192
  total_iodepth:
  - 8
  - 12
  - 16
  - 32
  - 48
  - 64
  - 128
  - 256
  - 384
  - 588
  - 768
8krandomwrite:
  jobname: randwrite
 mode: randwrite
 numjobs:
  - 1
  op_size: 8192
  total_iodepth:
  - 2
  - 4
  - 8
  - 16
  - 32
  - 64
```

- 128 - 256 - 384 - 512 - 768 precondition: jobname: precond1rw mode: randwrite monitor: false numjobs: - 1 op\_size: 65536 time: 600 total\_iodepth: - 16 seq16kread: jobname: seqread mode: read numjobs: - 1 op\_size: 16384 total\_iodepth: - 2 - 4 - 8 - 12 - 16 - 24 - 32 - 64 - 96 - 128 - 192 - 288 seq16kwrite: jobname: seqwrite mode: write numjobs: - 1 op\_size: 16384 total\_iodepth: - 2 - 4 - 8 - 16 - 32 - 48 - 64 - 128 - 256 - 384 - 512 - 768 - 1024 seq256kread: jobname: seqread mode: read numjobs: - 1 op\_size: 262144 total\_iodepth: - 1 - 2

```
- 3
  - 4
  - 5
  - 8
  - 16
  - 24
  - 32
  - 48
  - 64
seq256kwrite:
  jobname: seqwrite
 mode: write
 numjobs:
  - 1
  op_size: 262144
  total_iodepth:
  - 1
  - 2
  - 4
  - 8
  - 16
  - 24
  - 32
  - 64
  - 96
  - 128
  - 256
seq32kread:
  jobname: seqread
 mode: read
 numjobs:
  - 1
  op_size: 32768
  total_iodepth:
  - 2
  - 4
  - 8
  - 12
  - 16
  - 24
  - 32
  - 64
  - 96
  - 128
  - 192
seq32kwrite:
  jobname: seqwrite
 mode: write
 numjobs:
  - 1
  op_size: 32768
  total_iodepth:
  - 2
  - 4
  - 8
  - 16
  - 32
  - 64
  - 128
  - 256
  - 512
  - 768
seq4kread:
```

```
jobname: seqread
  mode: read
  numjobs:
  - 1
  op_size: 4096
  total_iodepth:
  - 2
  - 4
  - 8
  - 12
  - 16
  - 24
  - 32
  - 64
  - 96
  - 128
  - 192
  - 288
  - 384
seq4kwrite:
  jobname: seqwrite
  mode: write
  numjobs:
  - 1
  op_size: 4096
  total_iodepth:
  - 2
  - 8
  - 16
  - 24
  - 32
  - 48
  - 64
  - 128
  - 256
  - 384
  - 512
  - 768
  - 1024
  - 1280
  - 1536
{\tt seq8kread:}
  jobname: seqread
  mode: read
  numjobs:
  - 1
  op_size: 8192
  total_iodepth:
  - 2
  - 4
  - 8
  - 12
  - 16
  - 24
  - 32
  - 64
  - 96
  - 128
  - 192
  - 288
  - 384
seq8kwrite:
  jobname: seqwrite
```

```
mode: write
        numjobs:
        - 1
        op_size: 8192
        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: /cbt/ceph.conf.4x1x1.fs
  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
  - --- server1 ---
  osds_per_node: 8
  pdsh_ssh_args: -a -x -1%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/fio2
    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: 608333
volumes_per_client:
- 16
workloads:
  16k7030:
    jobname: randmix
    mode: randrw
    numjobs:
    - 1
    op_size: 16384
    rwmixread: 70
    total_iodepth:
    - 1
    - 2
    - 3
    - 4
    - 8
    - 16
    - 24
    - 32
    - 64
    - 128
    - 256
  16krandomread:
    jobname: randread
    mode: randread
    numjobs:
    - 1
    op_size: 16384
    total_iodepth:
    - 4
    - 8
    - 12
    - 16
    - 24
    - 48
    - 64
    - 128
    - 256
    - 384
    - 588
  16krandomwrite:
    jobname: randwrite
    mode: randwrite
    numjobs:
    - 1
    op_size: 16384
    total_iodepth:
    - 1
    - 2
```

- 3 - 4 - 8 - 16 - 32 - 64 - 128 - 256 - 384 - 512 1Mrandomread: jobname: randread mode: randread numjobs: - 1 op\_size: 1048576 total\_iodepth: - 1 - 2 - 3 - 4 - 8 - 12 - 16 - 20 - 24 - 28 - 32 1Mrandomwrite: jobname: randwrite mode: randwrite numjobs: - 1 op\_size: 1048576 total\_iodepth: - 1 - 2 - 3 - 4 - 5 - 6 - 8 - 16 - 24 - 32 - 48 1Mseqread: jobname: seqread mode: read numjobs: - 1 op\_size: 1048576 total\_iodepth: - 1 - 2 - 3 - 4 - 6 - 8 - 10 - 12 - 14 - 16

```
- 20
1Mseqwrite:
  jobname: seqwrite
 mode: write
 numjobs:
  - 1
  op_size: 1048576
  total_iodepth:
  - 4
  - 6
  - 8
  - 16
  - 32
  - 48
  - 64
  - 96
  - 128
  - 160
256krandomread:
  jobname: randread
 mode: randread
 numjobs:
  - 1
  op_size: 262144
  total_iodepth:
  - 1
  - 2
  - 3
  - 4
  - 5
  - 8
  - 16
  - 24
  - 32
  - 64
  - 128
256krandomwrite:
  jobname: randwrite
 mode: randwrite
 numjobs:
  - 1
  op_size: 262144
  total_iodepth:
  - 1
  - 2
  - 3
  - 4
  - 5
  - 8
  - 16
  - 32
  - 64
 - 96
  - 128
  - 256
32krandomread:
  jobname: randread
 mode: randread
 numjobs:
  - 1
  op_size: 32768
  total_iodepth:
```

results

- 2 - 4 6 - 8 - 12 - 16 - 24 - 32 - 64 - 128 - 256 - 384 - 512 32krandomwrite: jobname: randwrite mode: randwrite numjobs: - 1 op\_size: 32768 total\_iodepth: - 1 - 2 - 3 - 4 - 8 - 16 - 32 - 64 - 128 - 256 - 384 - 512 4k7030: jobname: randmix mode: randrw numjobs: - 1 op\_size: 4096 rwmixread: 70 total\_iodepth: - 1 - 2 - 3 - 4 - 8 - 16 - 24 - 32 - 64 - 128 - 256 - 384 4krandomread: jobname: randread mode: randread numjobs: - 1 op\_size: 4096 total\_iodepth: - 4 - 8 - 12 - 16

- 32 - 48 - 64 - 128 - 256 - 384 - 588 - 768 4krandomwrite: jobname: randwrite mode: randwrite numjobs: - 1 op\_size: 4096 total\_iodepth: - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 - 384 - 512 - 768 512krandomread: jobname: randread mode: randread numjobs: - 1 op\_size: 524288 total\_iodepth: - 1 - 2 - 3 - 4 - 8 - 16 - 24 - 32 - 40 - 48 - 64 512krandomwrite: jobname: randwrite mode: randwrite numjobs: - 1 op\_size: 524288 total\_iodepth: - 1 - 2 - 3 - 4 - 5 - 6 - 8 - 16 - 24 - 32 - 48

- 64

```
512kseqread:
  jobname: seqread
 mode: read
 numjobs:
  - 1
  op_size: 524288
  total_iodepth:
  - 1
  - 2
  - 3
  - 4
  - 6
  - 8
  - 12
  - 16
  - 20
  - 24
  - 32
512kseqwrite:
  jobname: seqwrite
 mode: write
 numjobs:
  - 1
 op_size: 524288
  total_iodepth:
  - 1
  - 2
  - 4
  - 6
  - 8
  - 16
  - 32
  - 48
  - 64
  - 96
  - 128
64k3070:
  jobname: randmix
 mode: randrw
 numjobs:
  - 1
  op_size: 65536
 rwmixread: 30
  total_iodepth:
  - 1
  - 2
  - 3
  - 4
  - 8
  - 16
  - 32
  - 64
  - 96
  - 128
  - 256
64k7030:
  jobname: randmix
 mode: randrw
 numjobs:
  op_size: 65536
 rwmixread: 70
  total_iodepth:
```

- 1 - 2 3 - 4 - 8 - 16 - 32 - 64 - 96 - 128 - 256 64krandomread: jobname: randread mode: randread numjobs: - 1 op\_size: 65536 total\_iodepth: - 2 - 4 - 6 - 8 - 12 - 16 - 24 - 32 - 64 - 128 - 256 - 384 64 krandom write:jobname: randwrite mode: randwrite numjobs: - 1 op\_size: 65536 total\_iodepth: - 2 - 4 - 6 - 8 - 16 - 24 - 32 - 64 - 128 - 256 - 384 64kseqread: jobname: read mode: read numjobs: - 1 op\_size: 65536 total\_iodepth: - 4 - 6 - 8 - 16 - 24 - 32 - 64

- 128 - 192 - 256 64kseqwrite: jobname: write mode: write numjobs: - 1 op\_size: 65536 total\_iodepth: - 4 - 8 - 12 - 16 - 32 - 48 - 64 - 128 - 256 - 384 - 512 8krandomread: jobname: randread mode: randread numjobs: - 1 op\_size: 8192 total\_iodepth: - 4 - 8 - 12 - 16 - 32 - 48 - 64 - 128 - 256 - 384 - 588 - 768 8krandomwrite: jobname: randwrite mode: randwrite numjobs: - 1 op\_size: 8192 total\_iodepth: - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 - 384 - 512 - 768 precondition: jobname: precond1rw mode: randwrite monitor: false numjobs:

```
- 1
  op_size: 65536
 time: 600
 total_iodepth:
  - 16
seq16kread:
  jobname: seqread
 mode: read
 numjobs:
  - 1
  op_size: 16384
  total_iodepth:
  - 2
  - 8
  - 12
  - 16
  - 24
  - 32
  - 64
  - 96
  - 128
  - 192
  - 288
seq16kwrite:
  jobname: seqwrite
 mode: write
 numjobs:
  - 1
  op_size: 16384
  total_iodepth:
  - 2
  - 4
  - 8
  - 16
  - 32
  - 48
  - 64
  - 128
  - 256
  - 384
  - 512
  - 768
  - 1024
seq256kread:
  jobname: seqread
  mode: read
 numjobs:
  - 1
  op_size: 262144
  total_iodepth:
  - 1
  - 2
  - 3
  - 4
  - 5
  - 8
  - 16
  - 24
  - 32
  - 48
  - 64
seq256kwrite:
```

```
jobname: seqwrite
  mode: write
  numjobs:
  - 1
  op_size: 262144
  total_iodepth:
  - 1
  - 2
  - 4
  - 8
  - 16
  - 24
  - 32
  - 64
  - 96
  - 128
  - 256
seq32kread:
  jobname: seqread
  mode: read
  numjobs:
  - 1
  op_size: 32768
  total_iodepth:
  - 2
  - 4
  - 8
  - 12
  - 16
  - 24
  - 32
  - 64
  - 96
  - 128
  - 192
seq32kwrite:
  jobname: seqwrite
  mode: write
  numjobs:
  - 1
  op_size: 32768
  {\tt total\_iodepth:}
  - 2
  - 4
  - 8
  - 16
  - 32
  - 64
  - 128
  - 256
  - 512
  - 768
seq4kread:
  jobname: seqread
  mode: read
  numjobs:
  - 1
  op_size: 4096
  total_iodepth:
  - 2
  - 4
  - 8
  - 12
```

- 16 - 24 - 32 - 64 - 96 - 128 - 192 - 288 - 384 seq4kwrite: jobname: seqwrite mode: write numjobs: - 1 op\_size: 4096 total\_iodepth: - 2 - 8 - 16 - 24 - 32 - 48 - 64 - 128 - 256 - 384 - 512 - 768 - 1024 - 1280 - 1536 seq8kread: jobname: seqread mode: read numjobs: - 1 op\_size: 8192  ${\tt total\_iodepth:}$ - 2 - 4 - 8 - 12 - 16 - 24 - 32 - 64 - 96 - 128 - 192 - 288 - 384 seq8kwrite: jobname: seqwrite mode: write numjobs: - 1 op\_size: 8192 total\_iodepth: - 2 - 8 - 16 - 24 - 32

Configuration yaml files results

```
- 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: /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: 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}
```