

Comparitive Performance Report for squid-ec-6+2-4k-appends vs tentacle-fast-ec-2+2-16k-appends vs tentacle-fast-ec-4+2-16k-appends vs tentacle-fast-ec-6+2-16k-appends

# **Comparitive Performance Report for squid-ec-6+2-4k-appends vs tentacle-fast-ec-2+2-16k-appends vs tentacle-fast-ec-4+2-16k-appends vs tentacle-fast-ec-6+2-16k-appends**

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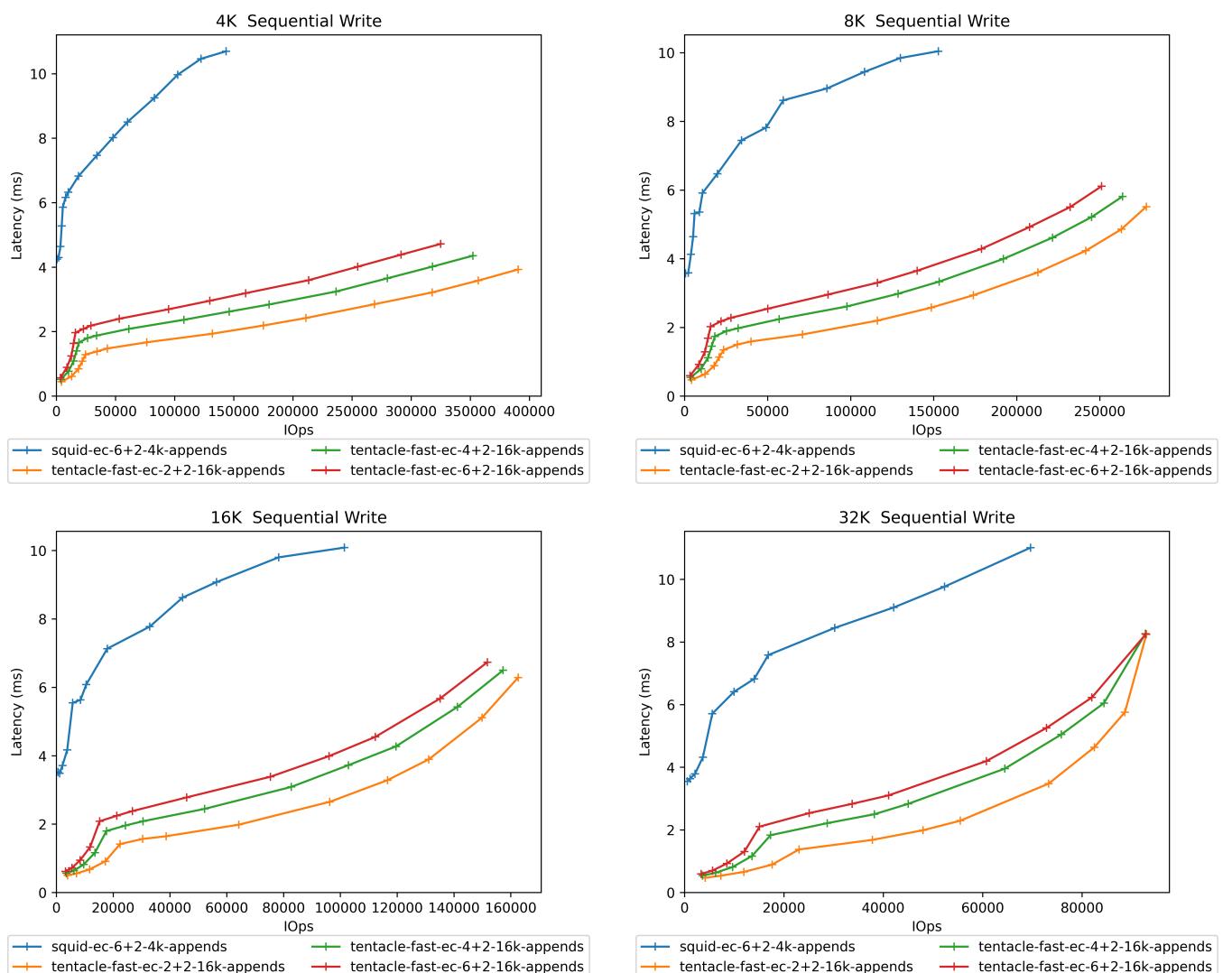
- Comparison summary for squid-ec-6+2-4k-appends vs tentacle-fast-ec-2+2-16k-appends vs tentacle-fast-ec-4+2-16k-appends vs tentacle-fast-ec-6+2-16k-appends
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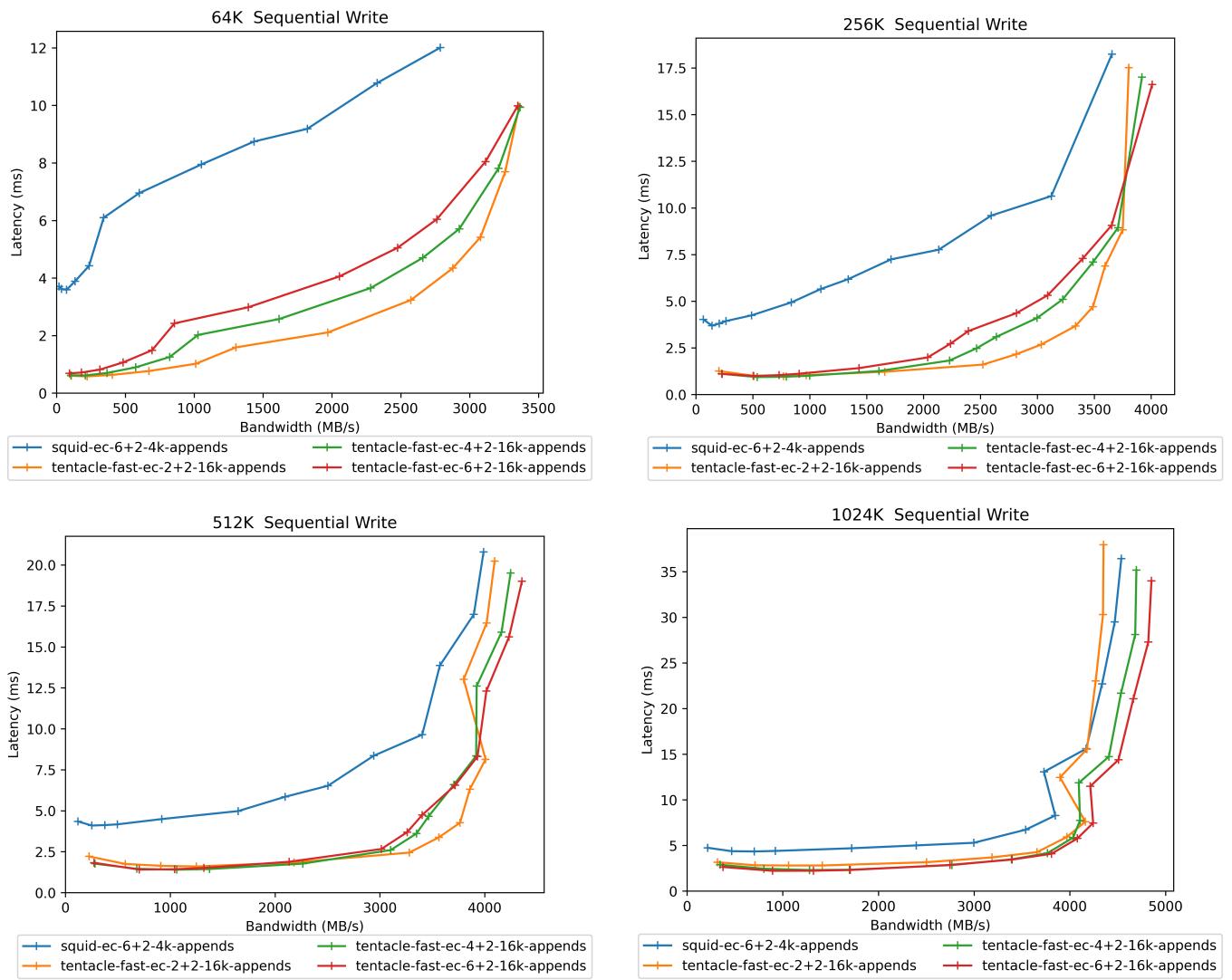
# Comparison summary for squid-ec-6+2-4k-appends vs tentacle-fast-ec-2+2-16k-appends vs tentacle-fast-ec-4+2-16k-appends vs tentacle-fast-ec-6+2-16k-appends

Sequential Write	squid-ec-6+2-4k-appends	tentacle-fast-ec-2+2-16k-appends	%change	tentacle-fast-ec-4+2-16k-appends	%change	tentacle-fast-ec-6+2-16k-appends	%change
4K	143545@10.7ms	390483@3.9	172%	352285@4.4	145%	325004@4.7	126%
8K	152824@10.0ms	278026@5.5	82%	263768@5.8	73%	251059@6.1	64%
16K	101415@10.1ms	162606@6.3	60%	157301@6.5	55%	151782@6.7	50%
32K	69639@11.0ms	92974@8.2	34%	92758@8.3	33%	92868@8.3	33%
64K	2787@12.0ms	3359@10.0	21%	3366@9.9	21%	3349@10.0	20%
256K	3655@18.2ms	3804@17.5	4%	3919@17.0	7%	4009@16.6	10%
512K	3989@20.8ms	4094@20.2	3%	4246@19.5	6%	4355@19.0	9%
1024K	4538@36.4ms	4352@38.0	-4%	4695@35.2	3%	4853@34.0	7%

# 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  
  rbdname: cbt-librbd_fio  
  time: 90  
  time_based: true  
  use_existing_volumes: true  
  vol_size: 1000  
  volumes_per_client:  
    - 16  
  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}
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
  rbdname: cbt-librbd_fio
  time: 90
```

```
time_based: true
use_existing_volumes: true
vol_size: 1000
volumes_per_client:
- 16
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:
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  ceph-mgr_cmd: /usr/bin/ceph-mgr
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  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}
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