**lspeed wr = 72 lspeed rd = 177**

**40MB**

readtest: (g=0): rw=randread, bs=4K-4K/4K-4K/4K-4K, ioengine=libaio, iodepth=16

writetest: (g=0): rw=randwrite, bs=4K-4K/4K-4K/4K-4K, ioengine=libaio, iodepth=16

fio-2.1.11

Starting 2 processes

Jobs: 1 (f=1): [\_(1),w(1)] [100.0% done] [0KB/3448KB/0KB /s] [0/862/0 iops] [eta 00m:00s]

readtest: (groupid=0, jobs=1): err= 0: pid=3931772: Fri Jul 22 14:09:30 2016

read : io=245760KB, bw=12571KB/s, **iops=3142**, runt= 19550msec

slat (usec): min=2, max=45, avg= 8.21, stdev= 3.41

clat (usec): min=176, max=451155, avg=5080.17, stdev=23207.01

lat (usec): min=182, max=451163, **avg=5088.57usec**, stdev=23207.06

clat percentiles (usec):

| 1.00th=[ 213], 5.00th=[ 235], 10.00th=[ 255], 20.00th=[ 314],

| 30.00th=[ 362], 40.00th=[ 398], 50.00th=[ 434], 60.00th=[ 482],

| 70.00th=[ 540], 80.00th=[ 1944], 90.00th=[ 7712], 95.00th=[17280],

| 99.00th=[115200], 99.50th=[195584], 99.90th=[284672], 99.95th=[362496],

| 99.99th=[395264]

bw (KB /s): min= 3880, max=32624, per=100.00%, avg=12664.05, stdev=6536.62

lat (usec) : 250=8.74%, 500=54.33%, 750=14.49%, 1000=0.74%

lat (msec) : 2=1.82%, 4=3.15%, 10=9.84%, 20=2.29%, 50=2.42%

lat (msec) : 100=1.05%, 250=0.94%, 500=0.19%

cpu : usr=1.45%, sys=3.46%, ctx=52012, majf=0, minf=42

IO depths : 1=0.1%, 2=0.1%, 4=0.1%, 8=0.1%, 16=100.0%, 32=0.0%, >=64=0.0%

submit : 0=0.0%, 4=100.0%, 8=0.0%, 16=0.0%, 32=0.0%, 64=0.0%, >=64=0.0%

complete : 0=0.0%, 4=100.0%, 8=0.0%, 16=0.1%, 32=0.0%, 64=0.0%, >=64=0.0%

issued : total=r=61440/w=0/d=0, short=r=0/w=0/d=0

latency : target=0, window=0, percentile=100.00%, depth=16

writetest: (groupid=0, jobs=1): err= 0: pid=3931773: Fri Jul 22 14:09:30 2016

write: io=245760KB, bw=3438.3KB/s, **iops=859**, runt= 71479msec

slat (usec): min=2, max=846, avg=12.06, stdev= 5.83

clat (msec): min=1, max=600, avg=18.60, stdev=35.34

lat (msec): min=1, max=600, **avg=18.61 msec**, stdev=35.34

clat percentiles (msec):

| 1.00th=[ 4], 5.00th=[ 6], 10.00th=[ 7], 20.00th=[ 8],

| 30.00th=[ 9], 40.00th=[ 9], 50.00th=[ 10], 60.00th=[ 10],

| 70.00th=[ 11], 80.00th=[ 15], 90.00th=[ 34], 95.00th=[ 63],

| 99.00th=[ 219], 99.50th=[ 258], 99.90th=[ 343], 99.95th=[ 388],

| 99.99th=[ 515]

bw (KB /s): min= 570, max= 6696, per=100.00%, avg=3450.05, stdev=1161.51

lat (msec) : 2=0.01%, 4=1.03%, 10=64.86%, 20=18.07%, 50=9.35%

lat (msec) : 100=3.81%, 250=2.31%, 500=0.56%, 750=0.01%

cpu : usr=0.54%, sys=1.55%, ctx=55328, majf=0, minf=56

IO depths : 1=0.1%, 2=0.1%, 4=0.1%, 8=0.1%, 16=100.0%, 32=0.0%, >=64=0.0%

submit : 0=0.0%, 4=100.0%, 8=0.0%, 16=0.0%, 32=0.0%, 64=0.0%, >=64=0.0%

complete : 0=0.0%, 4=100.0%, 8=0.0%, 16=0.1%, 32=0.0%, 64=0.0%, >=64=0.0%

issued : total=r=0/w=61440/d=0, short=r=0/w=0/d=0

latency : target=0, window=0, percentile=100.00%, depth=16

Run status group 0 (all jobs):

READ: io=245760KB, aggrb=12570KB/s, minb=12570KB/s, maxb=12570KB/s, mint=19550msec, maxt=19550msec

WRITE: io=245760KB, aggrb=3438KB/s, minb=3438KB/s, maxb=3438KB/s, mint=71479msec, maxt=71479msec

Disk stats (read/write):

rbd1: ios=61442/61372, merge=0/3, ticks=311825/1141347, in\_queue=1456877, util=100.00%

**400MB**

readtest: (g=0): rw=randread, bs=4K-4K/4K-4K/4K-4K, ioengine=libaio, iodepth=16

writetest: (g=0): rw=randwrite, bs=4K-4K/4K-4K/4K-4K, ioengine=libaio, iodepth=16

fio-2.1.11

Starting 2 processes

Jobs: 1 (f=1): [\_(1),w(1)] [100.0% done] [0KB/4256KB/0KB /s] [0/1064/0 iops] [eta 00m:00s]

readtest: (groupid=0, jobs=1): err= 0: pid=4009485: Fri Jul 22 14:17:23 2016

read : io=409600KB, bw=16376KB/s, **iops=4094**, runt= 25012msec

slat (usec): min=2, max=114, avg= 7.77, stdev= 3.28

clat (usec): min=163, max=510278, avg=3897.79, stdev=22709.08

lat (usec): min=170, max=510284, **avg=3905.74usec**, stdev=22709.15

clat percentiles (usec):

| 1.00th=[ 215], 5.00th=[ 239], 10.00th=[ 262], 20.00th=[ 322],

| 30.00th=[ 358], 40.00th=[ 386], 50.00th=[ 414], 60.00th=[ 454],

| 70.00th=[ 498], 80.00th=[ 564], 90.00th=[ 4256], 95.00th=[ 8512],

| 99.00th=[103936], 99.50th=[199680], 99.90th=[309248], 99.95th=[337920],

| 99.99th=[403456]

bw (KB /s): min= 1189, max=56280, per=100.00%, avg=16695.85, stdev=12371.32

lat (usec) : 250=7.43%, 500=62.89%, 750=15.11%, 1000=0.67%

lat (msec) : 2=1.37%, 4=2.22%, 10=6.16%, 20=1.26%, 50=1.34%

lat (msec) : 100=0.52%, 250=0.75%, 500=0.28%, 750=0.01%

cpu : usr=1.74%, sys=4.34%, ctx=82970, majf=0, minf=127

IO depths : 1=0.1%, 2=0.1%, 4=0.1%, 8=0.1%, 16=100.0%, 32=0.0%, >=64=0.0%

submit : 0=0.0%, 4=100.0%, 8=0.0%, 16=0.0%, 32=0.0%, 64=0.0%, >=64=0.0%

complete : 0=0.0%, 4=100.0%, 8=0.0%, 16=0.1%, 32=0.0%, 64=0.0%, >=64=0.0%

issued : total=r=102400/w=0/d=0, short=r=0/w=0/d=0

latency : target=0, window=0, percentile=100.00%, depth=16

writetest: (groupid=0, jobs=1): err= 0: pid=4009486: Fri Jul 22 14:17:23 2016

write: io=409600KB, bw=2975.1KB/s, **iops=743,** runt=137637msec

slat (usec): min=2, max=100, avg=12.21, stdev= 4.90

clat (msec): min=1, max=559, avg=21.49, stdev=44.98

lat (msec): min=1, max=559, **avg=21.50msec**, stdev=44.98

clat percentiles (msec):

| 1.00th=[ 4], 5.00th=[ 6], 10.00th=[ 7], 20.00th=[ 8],

| 30.00th=[ 9], 40.00th=[ 9], 50.00th=[ 10], 60.00th=[ 10],

| 70.00th=[ 11], 80.00th=[ 15], 90.00th=[ 36], 95.00th=[ 77],

| 99.00th=[ 265], 99.50th=[ 302], 99.90th=[ 371], 99.95th=[ 416],

| 99.99th=[ 519]

bw (KB /s): min= 736, max= 7608, per=100.00%, avg=2985.98, stdev=1278.44

lat (msec) : 2=0.01%, 4=1.01%, 10=63.83%, 20=18.80%, 50=8.99%

lat (msec) : 100=2.97%, 250=3.13%, 500=1.25%, 750=0.02%

cpu : usr=0.46%, sys=1.43%, ctx=92401, majf=0, minf=57

IO depths : 1=0.1%, 2=0.1%, 4=0.1%, 8=0.1%, 16=100.0%, 32=0.0%, >=64=0.0%

submit : 0=0.0%, 4=100.0%, 8=0.0%, 16=0.0%, 32=0.0%, 64=0.0%, >=64=0.0%

complete : 0=0.0%, 4=100.0%, 8=0.0%, 16=0.1%, 32=0.0%, 64=0.0%, >=64=0.0%

issued : total=r=0/w=102400/d=0, short=r=0/w=0/d=0

latency : target=0, window=0, percentile=100.00%, depth=16

Run status group 0 (all jobs):

READ: io=409600KB, aggrb=16376KB/s, minb=16376KB/s, maxb=16376KB/s, mint=25012msec, maxt=25012msec

WRITE: io=409600KB, aggrb=2975KB/s, minb=2975KB/s, maxb=2975KB/s, mint=137637msec, maxt=137637msec

readtest: (g=0): rw=randread, bs=4K-4K/4K-4K/4K-4K, ioengine=libaio, iodepth=16

writetest: (g=0): rw=randwrite, bs=4K-4K/4K-4K/4K-4K, ioengine=libaio, iodepth=16

fio-2.1.11

Starting 2 processes

^Cbs: 1 (f=1): [\_(1),w(1)] [62.2% done] [0KB/664KB/0KB /s] [0/166/0 iops] [eta 17m:07s]

fio: terminating on signal 2

Jobs: 1 (f=1): [\_(1),w(1)] [62.2% done] [0KB/360KB/0KB /s] [0/90/0 iops] [eta 17m:08s]

readtest: (groupid=0, jobs=1): err= 0: pid=4106904: Fri Jul 22 14:52:37 2016

read : io=4000.0MB, bw=31394KB/s, iops=7848, runt=130469msec

slat (usec): min=2, max=259, avg= 7.03, stdev= 3.33

clat (usec): min=170, max=1176.1K, avg=2029.26, stdev=24826.89

lat (usec): min=179, max=1176.1K, avg=2036.46, stdev=24826.92

clat percentiles (usec):

| 1.00th=[ 221], 5.00th=[ 245], 10.00th=[ 266], 20.00th=[ 330],

| 30.00th=[ 362], 40.00th=[ 386], 50.00th=[ 410], 60.00th=[ 434],

| 70.00th=[ 470], 80.00th=[ 506], 90.00th=[ 556], 95.00th=[ 620],

| 99.00th=[ 7904], 99.50th=[46848], 99.90th=[444416], 99.95th=[544768],

| 99.99th=[749568]

bw (KB /s): min= 2215, max=129616, per=100.00%, avg=31845.86, stdev=29830.74

lat (usec) : 250=6.15%, 500=72.02%, 750=18.98%, 1000=0.43%

lat (msec) : 2=0.38%, 4=0.45%, 10=0.77%, 20=0.22%, 50=0.11%

lat (msec) : 100=0.07%, 250=0.14%, 500=0.21%, 750=0.06%, 1000=0.01%

lat (msec) : 2000=0.01%

cpu : usr=3.02%, sys=7.72%, ctx=704448, majf=0, minf=274

IO depths : 1=0.1%, 2=0.1%, 4=0.1%, 8=0.1%, 16=100.0%, 32=0.0%, >=64=0.0%

submit : 0=0.0%, 4=100.0%, 8=0.0%, 16=0.0%, 32=0.0%, 64=0.0%, >=64=0.0%

complete : 0=0.0%, 4=100.0%, 8=0.0%, 16=0.1%, 32=0.0%, 64=0.0%, >=64=0.0%

issued : total=r=1024000/w=0/d=0, short=r=0/w=0/d=0

latency : target=0, window=0, percentile=100.00%, depth=16

writetest: (groupid=0, jobs=1): err= 0: pid=4106905: Fri Jul 22 14:52:37 2016

write: io=2489.3MB, bw=1504.7KB/s, iops=376, runt=1694087msec

slat (usec): min=2, max=324, avg=12.90, stdev= 5.19

clat (msec): min=1, max=1364, avg=42.52, stdev=117.33

lat (msec): min=1, max=1364, avg=42.53, stdev=117.33

clat percentiles (msec):

| 1.00th=[ 4], 5.00th=[ 6], 10.00th=[ 7], 20.00th=[ 8],

| 30.00th=[ 9], 40.00th=[ 9], 50.00th=[ 10], 60.00th=[ 10],

| 70.00th=[ 11], 80.00th=[ 12], 90.00th=[ 43], 95.00th=[ 347],

| 99.00th=[ 586], 99.50th=[ 685], 99.90th=[ 881], 99.95th=[ 963],

| 99.99th=[ 1106]

bw (KB /s): min= 20, max= 8232, per=100.00%, avg=1544.15, stdev=1693.26

lat (msec) : 2=0.01%, 4=1.03%, 10=66.80%, 20=18.30%, 50=4.25%

lat (msec) : 100=1.26%, 250=1.77%, 500=4.66%, 750=1.61%, 1000=0.27%

lat (msec) : 2000=0.04%

cpu : usr=0.27%, sys=0.81%, ctx=585854, majf=0, minf=898

IO depths : 1=0.1%, 2=0.1%, 4=0.1%, 8=0.1%, 16=100.0%, 32=0.0%, >=64=0.0%

submit : 0=0.0%, 4=100.0%, 8=0.0%, 16=0.0%, 32=0.0%, 64=0.0%, >=64=0.0%

complete : 0=0.0%, 4=100.0%, 8=0.0%, 16=0.1%, 32=0.0%, 64=0.0%, >=64=0.0%

issued : total=r=0/w=637253/d=0, short=r=0/w=0/d=0

latency : target=0, window=0, percentile=100.00%, depth=16

Run status group 0 (all jobs):

READ: io=4000.0MB, aggrb=31394KB/s, minb=31394KB/s, maxb=31394KB/s, mint=130469msec, maxt=130469msec

WRITE: io=2489.3MB, aggrb=1504KB/s, minb=1504KB/s, maxb=1504KB/s, mint=1694087msec, maxt=1694087msec