

```
Filesystem label=
OS type: Linux
Block size=1024 (log=0)
Fragment size=1024 (log=0)
2443264 inodes, 19543040 blocks
977152 blocks (5.00%) reserved for the super user
First data block=1
Maximum filesystem blocks=86769664
2386 block groups
8192 blocks per group, 8192 fragments per group
1024 inodes per group
Superblock backups stored on blocks:
    8193, 24577, 40961, 57345, 73729, 204801, 221185, 401409, 663553,
    1024001, 1990657, 2809857, 5120001, 5971969, 17915905
done
Writing superblocks and filesystem accounting information: done
```

This filesystem will be automatically checked every 33 mounts or 180 days, whichever comes first. Use tune2fs -c or -i to override.

```
/dev/mapper/VolGroup00-LogVol00 on / type ext3 (rw)
proc on /proc type proc (rw)
sysfs on /sys type sysfs (rw)
devpts on /dev/pts type devpts (rw,gid=5,mode=620)
/dev/sda1 on /boot type ext3 (rw)
tmpfs on /dev/shm type tmpfs (rw)
none on /proc/sys/fs/binfmt_misc type binfmt_misc (rw)
sunrpc on /var/lib/nfs/rpc_pipefs type rpc_pipefs (rw)
/dev/sda5 on /mnt/xfst type ext2 (rw)
```

```
Filesystem label=
OS type: Linux
Block size=1024 (log=0)
Fragment size=1024 (log=0)
2443264 inodes, 19543040 blocks
977152 blocks (5.00%) reserved for the super user
First data block=1
Maximum filesystem blocks=86769664
2386 block groups
8192 blocks per group, 8192 fragments per group
1024 inodes per group
Superblock backups stored on blocks:
    8193, 24577, 40961, 57345, 73729, 204801, 221185, 401409, 663553,
    1024001, 1990657, 2809857, 5120001, 5971969, 17915905
```

Writing superblocks and filesystem accounting information: done

This filesystem will be automatically checked every 27 mounts or 180 days, whichever comes first. Use tune2fs -c or -i to override.

```
/dev/mapper/VolGroup00-LogVol00 on / type ext3 (rw)
proc on /proc type proc (rw)
sysfs on /sys type sysfs (rw)
devpts on /dev/pts type devpts (rw,gid=5,mode=620)
/dev/sda1 on /boot type ext3 (rw)
tmpfs on /dev/shm type tmpfs (rw)
none on /proc/sys/fs/binfmt_misc type binfmt_misc (rw)
sunrpc on /var/lib/nfs/rpc_pipefs type rpc_pipefs (rw)
/dev/sda5 on /mnt/xfst type ext2 (rw)
```

Starting large file throughput test...

=====
 Issue command: tiotest -d /mnt/xfstest -f 100 -t 1 -b 64
 Tiotest results for 1 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	100 MBs 6.2 s	16.228 MB/s	17.6 %	63.7 %
Random Write	0 MBs 1.3 s	0.048 MB/s	0.3 %	0.0 %
Read	100 MBs 4.1 s	24.157 MB/s	25.5 %	74.5 %
Random Read	0 MBs 0.0 s	15.658 MB/s	0.0 %	0.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.003 ms	51.866 ms	0.00000	0.00000
Random Write	0.003 ms	0.013 ms	0.00000	0.00000
Read	0.002 ms	0.214 ms	0.00000	0.00000
Random Read	0.002 ms	0.008 ms	0.00000	0.00000
Total	0.002 ms	51.866 ms	0.00000	0.00000

Starting multi-thread throughput test ...

=====
 Issue command: tiotest -d /mnt/xfstest -f 10 -t 8 -b 64
 Tiotest results for 8 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	80 MBs 6.6 s	12.210 MB/s	157.5 %	772.7 %
Random Write	0 MBs 3.7 s	0.134 MB/s	3.1 %	8.1 %
Read	80 MBs 2.8 s	28.859 MB/s	292.9 %	1162.8 %
Random Read	0 MBs 0.0 s	20.408 MB/s	66.9 %	300.9 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.018 ms	500.228 ms	0.00000	0.00000
Random Write	0.006 ms	0.264 ms	0.00000	0.00000
Read	0.012 ms	600.231 ms	0.00000	0.00000
Random Read	0.004 ms	0.024 ms	0.00000	0.00000
Total	0.015 ms	600.231 ms	0.00000	0.00000

Filesystem label=
 OS type: Linux
 Block size=2048 (log=1)
 Fragment size=2048 (log=1)
 2445312 inodes, 9771520 blocks
 488576 blocks (5.00%) reserved for the super user

First data block=0
 Maximum filesystem blocks=547356672
 597 block groups
 16384 blocks per group, 16384 fragments per group
 4096 inodes per group
 Superblock backups stored on blocks:
 16384, 49152, 81920, 114688, 147456, 409600, 442368, 802816, 1327104,
 2048000, 3981312, 5619712

Writing inode
 Writing superblocks and filesystem accounting information: done

This filesystem will be automatically checked every 20 mounts or
 180 days, whichever comes first. Use tune2fs -c or -i to override.
 /dev/mapper/VolGroup00-LogVol00 on / type ext3 (rw)
 proc on /proc type proc (rw)
 sysfs on /sys type sysfs (rw)
 devpts on /dev/pts type devpts (rw,gid=5,mode=620)
 /dev/sda1 on /boot type ext3 (rw)
 tmpfs on /dev/shm type tmpfs (rw)
 none on /proc/sys/fs/binfmt_misc type binfmt_misc (rw)
 sunrpc on /var/lib/nfs/rpc_pipefs type rpc_pipefs (rw)
 /dev/sda5 on /mnt/xfstype ext2 (rw)
 Starting large file throughput test...

=====
 Issue command: tiotest -d /mnt/xfstype -f 100 -t 1 -b 64
 Tiotest results for 1 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write 100 MBs	5.6 s	17.967 MB/s	20.1 %	66.9 %
Random Write 0 MBs	1.5 s	0.041 MB/s	0.0 %	0.3 %
Read 100 MBs	4.1 s	24.542 MB/s	25.8 %	74.1 %
Random Read 0 MBs	0.0 s	15.895 MB/s	0.0 %	0.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.002 ms	10.101 ms	0.00000	0.00000
Random Write	0.003 ms	0.346 ms	0.00000	0.00000
Read	0.002 ms	0.232 ms	0.00000	0.00000
Random Read	0.002 ms	0.006 ms	0.00000	0.00000
Total	0.002 ms	10.101 ms	0.00000	0.00000

Starting multi-thread throughput test ...

=====
 Issue command: tiotest -d /mnt/xfstype -f 10 -t 8 -b 64
 Tiotest results for 8 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write 80 MBs	5.4 s	14.684 MB/s	187.5 %	811.7 %

Random Write	0 MBs	3.3 s	0.146 MB/s	2.5 %	12.3 %
Read	80 MBs	2.8 s	28.856 MB/s	319.9 %	1154.8 %
Random Read	0 MBs	0.0 s	19.731 MB/s	97.0 %	258.6 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.015 ms	308.169 ms	0.00000	0.00000
Random Write	0.007 ms	0.170 ms	0.00000	0.00000
Read	0.012 ms	300.148 ms	0.00000	0.00000
Random Read	0.003 ms	0.050 ms	0.00000	0.00000
Total	0.013 ms	308.169 ms	0.00000	0.00000

Filesystem label=

OS type: Linux

Block size=4096 (log=2)

Fragment size=4096 (log=2)

2443200 inodes, 4885760 blocks

244288 blocks (5.00%) reserved for the super user

First data block=0

Maximum filesystem blocks=0

150 block groups

32768 blocks per group, 32768 fragments per group

16288 inodes per group

Superblock backups stored on blocks:

32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632, 2654208,
4096000

Writing inode tables:

Writing superblocks and filesystem accounting information: done

This filesystem will be automatically checked every 20 mounts or 180 days, whichever comes first. Use tune2fs -c or -i to override.

/dev/mapper/VolGroup00-LogVol00 on / type ext3 (rw)

proc on /proc type proc (rw)

sysfs on /sys type sysfs (rw)

devpts on /dev/pts type devpts (rw,gid=5,mode=620)

/dev/sda1 on /boot type ext3 (rw)

tmpfs on /dev/shm type tmpfs (rw)

none on /proc/sys/fs/binfmt_misc type binfmt_misc (rw)

sunrpc on /var/lib/nfs/rpc_pipefs type rpc_pipefs (rw)

/dev/sda5 on /mnt/xfstest type ext2 (rw)

Starting large file throughput test...

Issue command: tiotest -d /mnt/xfstest -f 100 -t 1 -b 64

Tiotest results for 1 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU	
Write	100 MBs	5.5 s	18.246 MB/s	20.9 %	67.2 %
Random Write	0 MBs	1.2 s	0.049 MB/s	0.0 %	0.6 %
Read	100 MBs	4.1 s	24.168 MB/s	24.8 %	75.3 %

This filesystem will be automatically checked every 31 mounts or 180 days, whichever comes first. Use tune2fs -c or -i to override.

```
/dev/mapper/VolGroup00-LogVol00 on / type ext3 (rw)
proc on /proc type proc (rw)
sysfs on /sys type sysfs (rw)
devpts on /dev/pts type devpts (rw,gid=5,mode=620)
/dev/sda1 on /boot type ext3 (rw)
tmpfs on /dev/shm type tmpfs (rw)
none on /proc/sys/fs/binfmt_misc type binfmt_misc (rw)
sunrpc on /var/lib/nfs/rpc_pipefs type rpc_pipefs (rw)
/dev/sda5 on /mnt/xfst type ext2 (rw)
Starting large file throughput test...
```

```
=====  
Issue command: tiotest -d /mnt/xfst -f 100 -t 1 -b 64  
Tiotest results for 1 concurrent io threads:
```

Item	Time	Rate	Usr CPU	Sys CPU	
Write	100 MBs	6.4 s	15.698 MB/s	17.7 %	61.0 %
Random Write	0 MBs	1.3 s	0.048 MB/s	0.3 %	0.0 %
Read	100 MBs	4.1 s	24.227 MB/s	26.0 %	74.0 %
Random Read	0 MBs	0.0 s	15.763 MB/s	0.0 %	0.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.003 ms	106.542 ms	0.00000	0.00000
Random Write	0.003 ms	0.012 ms	0.00000	0.00000
Read	0.002 ms	0.211 ms	0.00000	0.00000
Random Read	0.002 ms	0.007 ms	0.00000	0.00000
Total	0.002 ms	106.542 ms	0.00000	0.00000

Starting multi-thread throughput test ...

```
=====  
Issue command: tiotest -d /mnt/xfst -f 10 -t 8 -b 64  
Tiotest results for 8 concurrent io threads:
```

Item	Time	Rate	Usr CPU	Sys CPU	
Write	80 MBs	6.8 s	11.734 MB/s	154.7 %	737.8 %
Random Write	0 MBs	3.7 s	0.133 MB/s	1.1 %	13.3 %
Read	80 MBs	2.8 s	28.695 MB/s	207.0 %	817.6 %
Random Read	0 MBs	0.0 s	16.195 MB/s	53.1 %	212.3 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.018 ms	588.252 ms	0.00000	0.00000
Random Write	0.007 ms	0.350 ms	0.00000	0.00000
Read	0.009 ms	436.245 ms	0.00000	0.00000

Random Read	0.004 ms	0.151 ms	0.00000	0.00000
Total	0.013 ms	588.252 ms	0.00000	0.00000

Filesystem label=

OS type: Linux

Block size=2048 (log=1)

Fragment size=2048 (log=1)

2445312 inodes, 9771520 blocks

488576 blocks (5.00%) reserved for the super user

First data block=0

Maximum filesystem blocks=547356672

597 block groups

16384 blocks per group, 16384 fragments per group

4096 inodes per group

Superblock backups stored on blocks:

16384, 49152, 81920, 114688, 147456, 409600, 442368, 802816, 1327104,
2048000, 3981312, 5619712

Writing

Writing superblocks and filesystem accounting information: done

This filesystem will be automatically checked every 28 mounts or 180 days, whichever comes first. Use tune2fs -c or -i to override.

/dev/mapper/VolGroup00-LogVol00 on / type ext3 (rw)

proc on /proc type proc (rw)

sysfs on /sys type sysfs (rw)

devpts on /dev/pts type devpts (rw,gid=5,mode=620)

/dev/sda1 on /boot type ext3 (rw)

tmpfs on /dev/shm type tmpfs (rw)

none on /proc/sys/fs/binfmt_misc type binfmt_misc (rw)

sunrpc on /var/lib/nfs/rpc_pipefs type rpc_pipefs (rw)

/dev/sda5 on /mnt/xfst type ext2 (rw)

Starting large file throughput test...

=====
Issue command: tiotest -d /mnt/xfst -f 100 -t 1 -b 64

Tiotest results for 1 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write 100 MBs	5.6 s	17.925 MB/s	19.4 %	68.3 %
Random Write 0 MBs	1.2 s	0.050 MB/s	0.3 %	0.0 %
Read 100 MBs	4.1 s	24.363 MB/s	24.1 %	75.9 %
Random Read 0 MBs	0.0 s	15.638 MB/s	0.0 %	0.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.002 ms	8.679 ms	0.00000	0.00000
Random Write	0.003 ms	0.023 ms	0.00000	0.00000
Read	0.002 ms	0.777 ms	0.00000	0.00000
Random Read	0.002 ms	0.007 ms	0.00000	0.00000

```
| Total          |          0.002 ms |          8.679 ms | 0.00000 | 0.00000 |
+-----+-----+-----+-----+-----+
```

Starting multi-thread throughput test ...

```
=====
Issue command: tiotest -d /mnt/xfstest -f 10 -t 8 -b 64
Tiotest results for 8 concurrent io threads:
```

```
+-----+-----+-----+-----+-----+
| Item          | Time          | Rate          | Usr CPU      | Sys CPU      |
+-----+-----+-----+-----+-----+
| Write         | 80 MBs        | 5.5 s         | 14.663 MB/s  | 172.5 %      |
| Random Write  | 0 MBs         | 3.2 s         | 0.152 MB/s   | 2.6 %        |
| Read          | 80 MBs        | 2.8 s         | 28.808 MB/s  | 307.0 %      |
| Random Read   | 0 MBs         | 0.0 s         | 20.143 MB/s  | 99.0 %       |
+-----+-----+-----+-----+-----+
```

Tiotest latency results:

```
+-----+-----+-----+-----+-----+
| Item          | Average latency | Maximum latency | % >2 sec     | % >10 sec    |
+-----+-----+-----+-----+-----+
| Write         | 0.017 ms       | 308.197 ms     | 0.00000      | 0.00000      |
| Random Write  | 0.006 ms       | 0.159 ms       | 0.00000      | 0.00000      |
| Read          | 0.012 ms       | 423.519 ms     | 0.00000      | 0.00000      |
| Random Read   | 0.004 ms       | 0.159 ms       | 0.00000      | 0.00000      |
+-----+-----+-----+-----+-----+
| Total         | 0.014 ms       | 423.519 ms     | 0.00000      | 0.00000      |
+-----+-----+-----+-----+-----+
```

Filesystem label=

OS type: Linux

Block size=4096 (log=2)

Fragment size=4096 (log=2)

2443200 inodes, 4885760 blocks

244288 blocks (5.00%) reserved for the super user

First data block=0

Maximum filesystem blocks=0

150 block groups

32768 blocks per group, 32768 fragments per group

16288 inodes per group

Superblock backups stored on blocks:

```
32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632, 2654208,
4096000
```

Writing inode tables:done

Writing superblocks and filesystem accounting information: done

This filesystem will be automatically checked every 36 mounts or 180 days, whichever comes first. Use tune2fs -c or -i to override.

/dev/mapper/VolGroup00-LogVol00 on / type ext3 (rw)

proc on /proc type proc (rw)

sysfs on /sys type sysfs (rw)

devpts on /dev/pts type devpts (rw,gid=5,mode=620)

/dev/sda1 on /boot type ext3 (rw)

tmpfs on /dev/shm type tmpfs (rw)

none on /proc/sys/fs/binfmt_misc type binfmt_misc (rw)

```
sunrpc on /var/lib/nfs/rpc_pipefs type rpc_pipefs (rw)
/dev/sda5 on /mnt/xfst type ext2 (rw)
Starting large file throughput test...
```

```
=====
Issue command: tiotest -d /mnt/xfst -f 100 -t 1 -b 64
Tiotest results for 1 concurrent io threads:
```

Item	Time	Rate	Usr CPU	Sys CPU
Write	100 MBs 5.5 s	18.078 MB/s	18.5 %	69.4 %
Random Write	0 MBs 1.2 s	0.050 MB/s	0.0 %	0.3 %
Read	100 MBs 4.1 s	24.351 MB/s	23.7 %	76.2 %
Random Read	0 MBs 0.0 s	15.678 MB/s	0.0 %	0.0 %

```
Tiotest latency results:
```

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.002 ms	7.399 ms	0.00000	0.00000
Random Write	0.003 ms	0.017 ms	0.00000	0.00000
Read	0.002 ms	0.744 ms	0.00000	0.00000
Random Read	0.002 ms	0.012 ms	0.00000	0.00000
Total	0.002 ms	7.399 ms	0.00000	0.00000

```
Starting multi-thread throughput test ...
```

```
=====
Issue command: tiotest -d /mnt/xfst -f 10 -t 8 -b 64
Tiotest results for 8 concurrent io threads:
```

Item	Time	Rate	Usr CPU	Sys CPU
Write	80 MBs 4.4 s	18.347 MB/s	219.2 %	942.4 %
Random Write	0 MBs 2.3 s	0.213 MB/s	6.8 %	10.1 %
Read	80 MBs 2.8 s	28.903 MB/s	283.4 %	1176.3 %
Random Read	0 MBs 0.0 s	20.513 MB/s	134.4 %	369.7 %

```
Tiotest latency results:
```

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.016 ms	408.230 ms	0.00000	0.00000
Random Write	0.006 ms	0.207 ms	0.00000	0.00000
Read	0.012 ms	500.188 ms	0.00000	0.00000
Random Read	0.006 ms	17.773 ms	0.00000	0.00000
Total	0.014 ms	500.188 ms	0.00000	0.00000

```
Filesystem label=
OS type: Linux
Block size=1024 (log=0)
Fragment size=1024 (log=0)
```

2443264 inodes, 19543040 blocks
 977152 blocks (5.00%) reserved for the super user
 First data block=1
 Maximum filesystem blocks=86769664
 2386 block groups
 8192 blocks per group, 8192 fragments per group
 1024 inodes per group
 Superblock backups stored on blocks:
 8193, 24577, 40961, 57345, 73729, 204801, 221185, 401409, 663553,
 1024001, 1990657, 2809857, 5120001, 5971969, 17915905

This filesystem will be automatically checked every 31 mounts or
 180 days, whichever comes first. Use tune2fs -c or -i to override.

/dev/mapper/VolGroup00-LogVol00 on / type ext3 (rw)
 proc on /proc type proc (rw)
 sysfs on /sys type sysfs (rw)
 devpts on /dev/pts type devpts (rw,gid=5,mode=620)
 /dev/sda1 on /boot type ext3 (rw)
 tmpfs on /dev/shm type tmpfs (rw)
 none on /proc/sys/fs/binfmt_misc type binfmt_misc (rw)
 sunrpc on /var/lib/nfs/rpc_pipefs type rpc_pipefs (rw)
 /dev/sda5 on /mnt/xfstype type ext2 (rw)
 Starting large file throughput test...

=====
 Issue command: tiotest -d /mnt/xfstype -f 100 -t 1 -b 64
 Tiotest results for 1 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write 100 MBs	6.2 s	16.141 MB/s	17.1 %	63.8 %
Random Write 0 MBs	1.2 s	0.049 MB/s	0.0 %	0.3 %
Read 100 MBs	4.1 s	24.395 MB/s	25.4 %	74.6 %
Random Read 0 MBs	0.0 s	15.784 MB/s	0.0 %	0.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.003 ms	69.091 ms	0.00000	0.00000
Random Write	0.003 ms	0.020 ms	0.00000	0.00000
Read	0.002 ms	0.168 ms	0.00000	0.00000
Random Read	0.002 ms	0.008 ms	0.00000	0.00000
Total	0.002 ms	69.091 ms	0.00000	0.00000

Starting multi-thread throughput test ...

=====
 Issue command: tiotest -d /mnt/xfstype -f 10 -t 8 -b 64
 Tiotest results for 8 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write 80 MBs	6.3 s	12.799 MB/s	158.9 %	794.7 %
Random Write 0 MBs	3.7 s	0.132 MB/s	3.0 %	9.1 %

```
| Read          80 MBs | 2.8 s | 28.844 MB/s | 314.1 % | 1161.5 % |
| Random Read   0 MBs | 0.0 s | 20.437 MB/s | 83.7 % | 334.9 % |
+-----+-----+-----+-----+-----+
```

Tiotest latency results:

```
+-----+-----+-----+-----+-----+
| Item          | Average latency | Maximum latency | % >2 sec | % >10 sec |
+-----+-----+-----+-----+-----+
| Write         | 0.015 ms       | 500.228 ms     | 0.00000  | 0.00000  |
| Random Write  | 0.006 ms       | 0.511 ms       | 0.00000  | 0.00000  |
| Read         | 0.011 ms       | 300.182 ms     | 0.00000  | 0.00000  |
| Random Read  | 0.004 ms       | 5.896 ms       | 0.00000  | 0.00000  |
+-----+-----+-----+-----+-----+
| Total        | 0.013 ms       | 500.228 ms     | 0.00000  | 0.00000  |
+-----+-----+-----+-----+-----+
```

Filesystem label=

OS type: Linux

Block size=2048 (log=1)

Fragment size=2048 (log=1)

2445312 inodes, 9771520 blocks

488576 blocks (5.00%) reserved for the super user

First data block=0

Maximum filesystem blocks=547356672

597 block groups

16384 blocks per group, 16384 fragments per group

4096 inodes per group

Superblock backups stored on blocks:

```
16384, 49152, 81920, 114688, 147456, 409600, 442368, 802816, 1327104,
2048000, 3981312, 5619712
```

Writing inode tables:

This filesystem will be automatically checked every 31 mounts or 180 days, whichever comes first. Use tune2fs -c or -i to override.

/dev/mapper/VolGroup00-LogVol00 on / type ext3 (rw)

proc on /proc type proc (rw)

sysfs on /sys type sysfs (rw)

devpts on /dev/pts type devpts (rw,gid=5,mode=620)

/dev/sda1 on /boot type ext3 (rw)

tmpfs on /dev/shm type tmpfs (rw)

none on /proc/sys/fs/binfmt_misc type binfmt_misc (rw)

sunrpc on /var/lib/nfs/rpc_pipefs type rpc_pipefs (rw)

/dev/sda5 on /mnt/xfstype type ext2 (rw)

Starting large file throughput test...

```
=====
Issue command: tiotest -d /mnt/xfstype -f 100 -t 1 -b 64
```

Tiotest results for 1 concurrent io threads:

```
+-----+-----+-----+-----+-----+
| Item          | Time          | Rate          | Usr CPU | Sys CPU |
+-----+-----+-----+-----+-----+
| Write        100 MBs | 5.7 s        | 17.605 MB/s  | 19.7 %  | 66.1 %  |
| Random Write  0 MBs        | 1.2 s        | 0.050 MB/s   | 0.3 %   | 0.0 %   |
| Read        100 MBs | 4.1 s        | 24.293 MB/s  | 24.3 %  | 75.6 %  |
| Random Read  0 MBs        | 0.0 s        | 15.731 MB/s  | 0.0 %   | 0.0 %   |
+-----+-----+-----+-----+-----+
```

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.002 ms	73.010 ms	0.00000	0.00000
Random Write	0.003 ms	0.013 ms	0.00000	0.00000
Read	0.002 ms	0.738 ms	0.00000	0.00000
Random Read	0.002 ms	0.006 ms	0.00000	0.00000
Total	0.002 ms	73.010 ms	0.00000	0.00000

Starting multi-thread throughput test ...

=====
 Issue command: tiotest -d /mnt/xfstest -f 10 -t 8 -b 64
 Tiotest results for 8 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	80 MBs 5.5 s	14.653 MB/s	164.3 %	830.9 %
Random Write	0 MBs 3.3 s	0.149 MB/s	1.1 %	11.5 %
Read	80 MBs 2.8 s	28.791 MB/s	213.4 %	887.0 %
Random Read	0 MBs 0.0 s	19.104 MB/s	62.6 %	250.4 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.016 ms	400.171 ms	0.00000	0.00000
Random Write	0.007 ms	0.278 ms	0.00000	0.00000
Read	0.009 ms	668.261 ms	0.00000	0.00000
Random Read	0.003 ms	0.034 ms	0.00000	0.00000
Total	0.012 ms	668.261 ms	0.00000	0.00000

Filesystem label=

OS type: Linux

Block size=4096 (log=2)

Fragment size=4096 (log=2)

2443200 inodes, 4885760 blocks

244288 blocks (5.00%) reserved for the super user

First data block=0

Maximum filesystem blocks=0

150 block groups

32768 blocks per group, 32768 fragments per group

16288 inodes per group

Superblock backups stored on blocks:

32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632, 2654208,
 4096000

Writing inode tables:

Writing superblocks and filesystem accounting information: done

This filesystem will be automatically checked every 22 mounts or 180 days, whichever comes first. Use tune2fs -c or -i to override.

```
/dev/mapper/VolGroup00-LogVol00 on / type ext3 (rw)
proc on /proc type proc (rw)
sysfs on /sys type sysfs (rw)
devpts on /dev/pts type devpts (rw,gid=5,mode=620)
/dev/sda1 on /boot type ext3 (rw)
tmpfs on /dev/shm type tmpfs (rw)
none on /proc/sys/fs/binfmt_misc type binfmt_misc (rw)
sunrpc on /var/lib/nfs/rpc_pipefs type rpc_pipefs (rw)
/dev/sda5 on /mnt/xfst type ext2 (rw)
Starting large file throughput test...
```

```
=====
Issue command: tiotest -d /mnt/xfst -f 100 -t 1 -b 64
Tiotest results for 1 concurrent io threads:
```

Item	Time	Rate	Usr CPU	Sys CPU	
Write	100 MBs	5.5 s	18.204 MB/s	19.2 %	69.1 %
Random Write	0 MBs	1.3 s	0.049 MB/s	0.0 %	0.3 %
Read	100 MBs	4.1 s	24.385 MB/s	24.5 %	75.4 %
Random Read	0 MBs	0.0 s	15.771 MB/s	0.0 %	0.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.002 ms	5.760 ms	0.00000	0.00000
Random Write	0.003 ms	0.012 ms	0.00000	0.00000
Read	0.002 ms	1.073 ms	0.00000	0.00000
Random Read	0.002 ms	0.008 ms	0.00000	0.00000
Total	0.002 ms	5.760 ms	0.00000	0.00000

Starting multi-thread throughput test ...

```
=====
Issue command: tiotest -d /mnt/xfst -f 10 -t 8 -b 64
Tiotest results for 8 concurrent io threads:
```

Item	Time	Rate	Usr CPU	Sys CPU	
Write	80 MBs	4.4 s	18.150 MB/s	214.4 %	956.4 %
Random Write	0 MBs	2.2 s	0.223 MB/s	4.2 %	13.0 %
Read	80 MBs	2.8 s	28.822 MB/s	219.2 %	841.1 %
Random Read	0 MBs	0.0 s	20.374 MB/s	33.4 %	333.8 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.016 ms	304.144 ms	0.00000	0.00000
Random Write	0.006 ms	0.644 ms	0.00000	0.00000
Read	0.009 ms	500.194 ms	0.00000	0.00000
Random Read	0.004 ms	0.058 ms	0.00000	0.00000

```

+-----+-----+-----+-----+
| Total      |      0.012 ms |    500.194 ms |  0.00000 |  0.00000 |
+-----+-----+-----+-----+

```

Filesystem label=

OS type: Linux

Block size=1024 (log=0)

Fragment size=1024 (log=0)

2443264 inodes, 19543040 blocks

977152 blocks (5.00%) reserved for the super user

First data block=1

Maximum filesystem blocks=86769664

2386 block groups

8192 blocks per group, 8192 fragments per group

1024 inodes per group

Superblock backups stored on blocks:

8193, 24577, 40961, 57345, 73729, 204801, 221185, 401409, 663553,
1024001, 1990657, 2809857, 5120001, 5971969, 17915905

Writing inode tables:

Writing superblocks and filesystem accounting information: Filesystem label=

OS type: Linux

Block size=1024 (log=0)

Fragment size=1024 (log=0)

2443264 inodes, 19543040 blocks

977152 blocks (5.00%) reserved for the super user

First data block=1

Maximum filesystem blocks=86769664

2386 block groups

8192 blocks per group, 8192 fragments per group

1024 inodes per group

Superblock backups stored on blocks:

8193, 24577, 40961, 57345, 73729, 204801, 221185, 401409, 663553,
1024001, 1990657, 2809857, 5120001, 5971969, 17915905

Writing inode tables:

Writing superblocks and filesystem accounting information: done

This filesystem will be automatically checked every 34 mounts or
180 days, whichever comes first. Use tune2fs -c or -i to override.

/dev/mapper/VolGroup00-LogVol00 on / type ext3 (rw)

proc on /proc type proc (rw)

sysfs on /sys type sysfs (rw)

devpts on /dev/pts type devpts (rw,gid=5,mode=620)

/dev/sda1 on /boot type ext3 (rw)

tmpfs on /dev/shm type tmpfs (rw)

none on /proc/sys/fs/binfmt_misc type binfmt_misc (rw)

sunrpc on /var/lib/nfs/rpc_pipefs type rpc_pipefs (rw)

/dev/sda5 on /mnt/xfstest type ext2 (rw)

Starting large file throughput test...

=====
Issue command: tiotest -d /mnt/xfstest -f 100 -t 1 -b 256

Tiotest results for 1 concurrent io threads:

```

+-----+-----+-----+-----+
| Item      | Time      | Rate      | Usr CPU  | Sys CPU  |
+-----+-----+-----+-----+

```

Write	100 MBs	3.1 s	32.394 MB/s	8.4 %	39.9 %
Random Write	0 MBs	1.3 s	0.194 MB/s	0.3 %	0.0 %
Read	100 MBs	1.1 s	94.451 MB/s	25.7 %	74.4 %
Random Read	0 MBs	0.0 s	62.328 MB/s	0.0 %	0.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.004 ms	113.096 ms	0.00000	0.00000
Random Write	0.003 ms	0.016 ms	0.00000	0.00000
Read	0.002 ms	0.214 ms	0.00000	0.00000
Random Read	0.002 ms	0.007 ms	0.00000	0.00000
Total	0.003 ms	113.096 ms	0.00000	0.00000

Issue command: tiotest -d /mnt/xfstest -f 100 -t 1 -b 8192

Tiotest results for 1 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	2.3 s	43.776 MB/s	0.2 %	12.1 %
Random Write	1.3 s	5.994 MB/s	0.0 %	0.9 %
Read	0.1 s	1460.664 MB/s	0.0 %	99.3 %
Random Read	0.0 s	1244.029 MB/s	63.7 %	0.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.021 ms	0.143 ms	0.00000	0.00000
Random Write	0.008 ms	0.023 ms	0.00000	0.00000
Read	0.005 ms	0.070 ms	0.00000	0.00000
Random Read	0.005 ms	0.019 ms	0.00000	0.00000
Total	0.012 ms	0.143 ms	0.00000	0.00000

Starting multi-thread throughput test ...

Issue command: tiotest -d /mnt/xfstest -f 10 -t 8 -b 256

Tiotest results for 8 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	4.2 s	19.225 MB/s	49.2 %	328.3 %
Random Write	3.3 s	0.585 MB/s	2.3 %	13.3 %
Read	0.7 s	112.215 MB/s	200.9 %	964.6 %
Random Read	0.0 s	80.419 MB/s	65.9 %	296.5 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.017 ms	448.186 ms	0.00000	0.00000
Random Write	0.007 ms	0.190 ms	0.00000	0.00000
Read	0.010 ms	300.125 ms	0.00000	0.00000
Random Read	0.004 ms	0.032 ms	0.00000	0.00000
Total	0.013 ms	448.186 ms	0.00000	0.00000

Issue command: tiotest -d /mnt/xfstest -f 10 -t 8 -b 8192
 Tiotest results for 8 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write 80 MBs	3.8 s	21.283 MB/s	1.5 %	56.0 %
Random Write 62 MBs	3.3 s	19.132 MB/s	3.9 %	20.1 %
Read 80 MBs	0.0 s	1778.647 MB/s	80.0 %	453.6 %
Random Read 62 MBs	0.0 s	1565.749 MB/s	20.0 %	350.8 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.036 ms	1.307 ms	0.00000	0.00000
Random Write	0.018 ms	0.512 ms	0.00000	0.00000
Read	0.011 ms	34.055 ms	0.00000	0.00000
Random Read	0.008 ms	0.052 ms	0.00000	0.00000
Total	0.019 ms	34.055 ms	0.00000	0.00000

Issue command: tiotest -d /mnt/xfstest -f 10 -t 16 -b 256
 Tiotest results for 16 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write 160 MBs	8.4 s	19.076 MB/s	96.5 %	631.5 %
Random Write 4 MBs	6.8 s	0.577 MB/s	4.1 %	22.9 %
Read 160 MBs	1.4 s	111.168 MB/s	371.6 %	1472.8 %
Random Read 4 MBs	0.0 s	80.382 MB/s	115.2 %	411.6 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.045 ms	892.359 ms	0.00000	0.00000
Random Write	0.008 ms	0.194 ms	0.00000	0.00000
Read	0.014 ms	700.259 ms	0.00000	0.00000
Random Read	0.004 ms	0.052 ms	0.00000	0.00000
Total	0.029 ms	892.359 ms	0.00000	0.00000

Issue command: tiotest -d /mnt/xfstest -f 10 -t 16 -b 8192

Tiotest results for 16 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	160 MBs 8.4 s	19.127 MB/s	2.1 %	91.1 %
Random Write	125 MBs 7.0 s	17.852 MB/s	5.4 %	45.9 %
Read	160 MBs 0.1 s	1811.922 MB/s	63.4 %	498.3 %
Random Read	125 MBs 0.1 s	1587.201 MB/s	45.7 %	513.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.042 ms	73.319 ms	0.00000	0.00000
Random Write	0.029 ms	155.862 ms	0.00000	0.00000
Read	0.011 ms	77.286 ms	0.00000	0.00000
Random Read	0.012 ms	68.484 ms	0.00000	0.00000
Total	0.024 ms	155.862 ms	0.00000	0.00000

Filesystem label=

OS type: Linux

Block size=2048 (log=1)

Fragment size=2048 (log=1)

2445312 inodes, 9771520 blocks

488576 blocks (5.00%) reserved for the super user

First data block=0

Maximum filesystem blocks=547356672

597 block groups

16384 blocks per group, 16384 fragments per group

4096 inodes per group

Superblock backups stored on blocks:

16384, 49152, 81920, 114688, 147456, 409600, 442368, 802816, 1327104,
2048000, 3981312, 5619712

Writing inode tables:

Writing superblocks and filesystem accounting information: done

This filesystem will be automatically checked every 33 mounts or 180 days, whichever comes first. Use tune2fs -c or -i to override.

/dev/mapper/VolGroup00-LogVol00 on / type ext3 (rw)

proc on /proc type proc (rw)

sysfs on /sys type sysfs (rw)

devpts on /dev/pts type devpts (rw,gid=5,mode=620)

/dev/sda1 on /boot type ext3 (rw)

tmpfs on /dev/shm type tmpfs (rw)

none on /proc/sys/fs/binfmt_misc type binfmt_misc (rw)

sunrpc on /var/lib/nfs/rpc_pipefs type rpc_pipefs (rw)

/dev/sda5 on /mnt/xfstest type ext2 (rw)

Starting large file throughput test...

=====
Issue command: tiotest -d /mnt/xfstest -f 100 -t 1 -b 256

Tiotest results for 1 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	100 MBs 2.4 s	42.511 MB/s	10.7 %	49.3 %
Random Write	0 MBs 1.2 s	0.197 MB/s	0.3 %	0.0 %
Read	100 MBs 1.1 s	93.650 MB/s	25.1 %	74.6 %
Random Read	0 MBs 0.0 s	62.344 MB/s	0.0 %	0.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.003 ms	118.182 ms	0.00000	0.00000
Random Write	0.003 ms	0.012 ms	0.00000	0.00000
Read	0.002 ms	0.143 ms	0.00000	0.00000
Random Read	0.002 ms	0.008 ms	0.00000	0.00000
Total	0.002 ms	118.182 ms	0.00000	0.00000

Issue command: tiotest -d /mnt/xfstest -f 100 -t 1 -b 8192

Tiotest results for 1 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	100 MBs 1.7 s	58.100 MB/s	0.9 %	9.8 %
Random Write	8 MBs 1.2 s	6.262 MB/s	0.3 %	0.3 %
Read	100 MBs 0.1 s	1473.145 MB/s	23.6 %	70.7 %
Random Read	8 MBs 0.0 s	1246.609 MB/s	0.0 %	63.8 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.014 ms	1.430 ms	0.00000	0.00000
Random Write	0.008 ms	0.020 ms	0.00000	0.00000
Read	0.005 ms	0.042 ms	0.00000	0.00000
Random Read	0.005 ms	0.020 ms	0.00000	0.00000
Total	0.009 ms	1.430 ms	0.00000	0.00000

Starting multi-thread throughput test ...

Issue command: tiotest -d /mnt/xfstest -f 10 -t 8 -b 256

Tiotest results for 8 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	80 MBs 2.8 s	28.212 MB/s	87.3 %	414.6 %
Random Write	2 MBs 2.7 s	0.731 MB/s	1.3 %	15.6 %
Read	80 MBs 0.7 s	111.392 MB/s	181.0 %	752.5 %
Random Read	2 MBs 0.0 s	80.128 MB/s	65.6 %	328.2 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.013 ms	404.169 ms	0.00000	0.00000
Random Write	0.008 ms	8.091 ms	0.00000	0.00000
Read	0.007 ms	300.121 ms	0.00000	0.00000
Random Read	0.004 ms	0.108 ms	0.00000	0.00000
Total	0.010 ms	404.169 ms	0.00000	0.00000

Issue command: tiotest -d /mnt/xfstest -f 10 -t 8 -b 8192

Tiotest results for 8 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	80 MBs 1.9 s	42.170 MB/s	0.0 %	63.9 %
Random Write	62 MBs 2.0 s	31.998 MB/s	1.6 %	38.9 %
Read	80 MBs 0.0 s	1784.878 MB/s	53.6 %	330.2 %
Random Read	62 MBs 0.0 s	1567.044 MB/s	30.1 %	501.5 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.024 ms	0.309 ms	0.00000	0.00000
Random Write	0.016 ms	0.365 ms	0.00000	0.00000
Read	0.007 ms	0.106 ms	0.00000	0.00000
Random Read	0.011 ms	29.817 ms	0.00000	0.00000
Total	0.015 ms	29.817 ms	0.00000	0.00000

Issue command: tiotest -d /mnt/xfstest -f 10 -t 16 -b 256

Tiotest results for 16 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	160 MBs 5.7 s	28.098 MB/s	111.2 %	835.8 %
Random Write	4 MBs 5.6 s	0.703 MB/s	2.0 %	29.4 %
Read	160 MBs 1.4 s	111.602 MB/s	388.1 %	1603.0 %
Random Read	4 MBs 0.0 s	79.956 MB/s	147.4 %	245.6 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.032 ms	888.332 ms	0.00000	0.00000
Random Write	0.007 ms	0.308 ms	0.00000	0.00000
Read	0.017 ms	700.265 ms	0.00000	0.00000
Random Read	0.004 ms	0.080 ms	0.00000	0.00000

```
| Total          |          0.024 ms |          888.332 ms |          0.00000 |          0.00000 |
+-----+-----+-----+-----+-----+
```

Issue command: tiotest -d /mnt/xf5 -f 10 -t 16 -b 8192

Tiotest results for 16 concurrent io threads:

```
+-----+-----+-----+-----+-----+
| Item          | Time          | Rate          | Usr CPU      | Sys CPU      |
+-----+-----+-----+-----+-----+
| Write         | 160 MBs      | 5.9 s        | 26.958 MB/s | 4.0 %        | 86.2 %        |
| Random Write  | 125 MBs      | 6.2 s        | 20.314 MB/s | 3.0 %        | 47.3 %        |
| Read          | 160 MBs      | 0.1 s        | 1792.095 MB/s | 58.2 %       | 340.5 %       |
| Random Read   | 125 MBs      | 0.1 s        | 1583.441 MB/s | 45.6 %       | 511.8 %       |
+-----+-----+-----+-----+-----+
```

Tiotest latency results:

```
+-----+-----+-----+-----+-----+
| Item          | Average latency | Maximum latency | % >2 sec    | % >10 sec    |
+-----+-----+-----+-----+-----+
| Write         | 0.034 ms      | 71.623 ms     | 0.00000    | 0.00000    |
| Random Write  | 0.017 ms      | 2.178 ms      | 0.00000    | 0.00000    |
| Read          | 0.008 ms      | 10.747 ms     | 0.00000    | 0.00000    |
| Random Read   | 0.007 ms      | 0.104 ms      | 0.00000    | 0.00000    |
+-----+-----+-----+-----+-----+
| Total         | 0.017 ms      | 71.623 ms     | 0.00000    | 0.00000    |
+-----+-----+-----+-----+-----+
```

Filesystem label=

OS type: Linux

Block size=4096 (log=2)

Fragment size=4096 (log=2)

2443200 inodes, 4885760 blocks

244288 blocks (5.00%) reserved for the super user

First data block=0

Maximum filesystem blocks=0

150 block groups

32768 blocks per group, 32768 fragments per group

16288 inodes per group

Superblock backups stored on blocks:

```
32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632, 2654208,
4096000
```

Writing inode tables:

Writing superblocks and filesystem accounting information: done

This filesystem will be automatically checked every 27 mounts or 180 days, whichever comes first. Use tune2fs -c or -i to override.

/dev/mapper/VolGroup00-LogVol00 on / type ext3 (rw)

proc on /proc type proc (rw)

sysfs on /sys type sysfs (rw)

devpts on /dev/pts type devpts (rw,gid=5,mode=620)

/dev/sda1 on /boot type ext3 (rw)

tmpfs on /dev/shm type tmpfs (rw)

none on /proc/sys/fs/binfmt_misc type binfmt_misc (rw)

sunrpc on /var/lib/nfs/rpc_pipefs type rpc_pipefs (rw)

/dev/sda5 on /mnt/xf5 type ext2 (rw)

Starting large file throughput test...

=====
 Issue command: tiotest -d /mnt/xfs -f 100 -t 1 -b 256
 Tiotest results for 1 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	100 MBs 2.2 s	44.456 MB/s	11.0 %	49.8 %
Random Write	0 MBs 1.3 s	0.194 MB/s	0.0 %	0.3 %
Read	100 MBs 1.1 s	94.065 MB/s	24.5 %	75.3 %
Random Read	0 MBs 0.0 s	62.376 MB/s	0.0 %	0.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.003 ms	10.023 ms	0.00000	0.00000
Random Write	0.003 ms	0.011 ms	0.00000	0.00000
Read	0.002 ms	0.213 ms	0.00000	0.00000
Random Read	0.002 ms	0.008 ms	0.00000	0.00000
Total	0.002 ms	10.023 ms	0.00000	0.00000

Issue command: tiotest -d /mnt/xfs -f 100 -t 1 -b 8192
 Tiotest results for 1 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	100 MBs 1.7 s	60.259 MB/s	0.0 %	8.7 %
Random Write	8 MBs 1.3 s	6.220 MB/s	0.0 %	0.6 %
Read	100 MBs 0.1 s	1481.372 MB/s	11.9 %	83.0 %
Random Read	8 MBs 0.0 s	1238.310 MB/s	0.0 %	63.4 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.011 ms	1.339 ms	0.00000	0.00000
Random Write	0.007 ms	0.018 ms	0.00000	0.00000
Read	0.005 ms	0.034 ms	0.00000	0.00000
Random Read	0.005 ms	0.019 ms	0.00000	0.00000
Total	0.008 ms	1.339 ms	0.00000	0.00000

Starting multi-thread throughput test ...

=====
 Issue command: tiotest -d /mnt/xfs -f 10 -t 8 -b 256
 Tiotest results for 8 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	80 MBs 3.2 s	24.630 MB/s	49.3 %	323.8 %

Random Write	2 MBs	2.6 s	0.762 MB/s	0.9 %	19.0 %
Read	80 MBs	0.7 s	110.998 MB/s	225.3 %	855.3 %
Random Read	2 MBs	0.0 s	79.739 MB/s	32.7 %	392.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.012 ms	700.522 ms	0.00000	0.00000
Random Write	0.006 ms	0.525 ms	0.00000	0.00000
Read	0.008 ms	300.304 ms	0.00000	0.00000
Random Read	0.005 ms	6.066 ms	0.00000	0.00000
Total	0.010 ms	700.522 ms	0.00000	0.00000

Issue command: tiotest -d /mnt/xfst -f 10 -t 8 -b 8192

Tiotest results for 8 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU	
Write	80 MBs	1.5 s	52.477 MB/s	4.7 %	80.0 %
Random Write	62 MBs	1.8 s	34.161 MB/s	1.1 %	40.2 %
Read	80 MBs	0.0 s	1800.464 MB/s	18.0 %	378.1 %
Random Read	62 MBs	0.0 s	1550.984 MB/s	19.9 %	377.2 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.022 ms	0.300 ms	0.00000	0.00000
Random Write	0.016 ms	0.224 ms	0.00000	0.00000
Read	0.007 ms	0.236 ms	0.00000	0.00000
Random Read	0.008 ms	0.114 ms	0.00000	0.00000
Total	0.013 ms	0.300 ms	0.00000	0.00000

Issue command: tiotest -d /mnt/xfst -f 10 -t 16 -b 256

Tiotest results for 16 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU	
Write	160 MBs	5.5 s	29.213 MB/s	147.2 %	783.5 %
Random Write	4 MBs	20.1 s	0.194 MB/s	0.3 %	7.4 %
Read	160 MBs	3.9 s	41.226 MB/s	166.7 %	548.1 %
Random Read	4 MBs	24.1 s	0.162 MB/s	0.3 %	2.7 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.049 ms	1359.475 ms	0.00000	0.00000
Random Write	7.910 ms	1409.955 ms	0.00000	0.00000

Read	0.047 ms	1077.616 ms	0.00000	0.00000
Random Read	15.461 ms	1682.640 ms	0.00000	0.00000
Total	0.325 ms	1682.640 ms	0.00000	0.00000

Issue command: tiotest -d /mnt/xfs -f 10 -t 16 -b 8192

Tiotest results for 16 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write 160 MBs	4.4 s	35.969 MB/s	4.4 %	104.0 %
Random Write 125 MBs	4.2 s	30.092 MB/s	2.5 %	70.9 %
Read 160 MBs	0.9 s	186.507 MB/s	13.1 %	62.9 %
Random Read 125 MBs	0.1 s	1566.298 MB/s	60.1 %	330.8 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.319 ms	1241.911 ms	0.00000	0.00000
Random Write	0.024 ms	113.855 ms	0.00000	0.00000
Read	0.194 ms	441.937 ms	0.00000	0.00000
Random Read	0.008 ms	0.088 ms	0.00000	0.00000
Total	0.151 ms	1241.911 ms	0.00000	0.00000

Filesystem label=

OS type: Linux

Block size=1024 (log=0)

Fragment size=1024 (log=0)

2443264 inodes, 19543040 blocks

977152 blocks (5.00%) reserved for the super user

First data block=1

Maximum filesystem blocks=86769664

2386 block groups

8192 blocks per group, 8192 fragments per group

1024 inodes per group

Superblock backups stored on blocks:

8193, 24577, 40961, 57345, 73729, 204801, 221185, 401409, 663553,
1024001, 1990657, 2809857, 5120001, 5971969, 17915905

Writing inode tables:

Writing superblocks and filesystem accounting information: done

This filesystem will be automatically checked every 32 mounts or 180 days, whichever comes first. Use tune2fs -c or -i to override.

/dev/mapper/VolGroup00-LogVol00 on / type ext3 (rw)

proc on /proc type proc (rw)

sysfs on /sys type sysfs (rw)

devpts on /dev/pts type devpts (rw,gid=5,mode=620)

/dev/sda1 on /boot type ext3 (rw)

tmpfs on /dev/shm type tmpfs (rw)

```
none on /proc/sys/fs/binfmt_misc type binfmt_misc (rw)
sunrpc on /var/lib/nfs/rpc_pipefs type rpc_pipefs (rw)
/dev/sda5 on /mnt/xfstype ext2 (rw)
Starting large file throughput test...
```

```
=====
Issue command: tiotest -d /mnt/xfstype -f 100 -t 1 -b 256
Tiotest results for 1 concurrent io threads:
```

Item	Time	Rate	Usr CPU	Sys CPU	
Write	100 MBs	2.9 s	34.321 MB/s	8.1 %	43.0 %
Random Write	0 MBs	1.3 s	0.194 MB/s	0.0 %	0.3 %
Read	100 MBs	1.1 s	94.374 MB/s	28.3 %	71.4 %
Random Read	0 MBs	0.0 s	62.328 MB/s	0.0 %	0.0 %

```
Tiotest latency results:
```

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.004 ms	112.659 ms	0.00000	0.00000
Random Write	0.003 ms	0.027 ms	0.00000	0.00000
Read	0.002 ms	0.216 ms	0.00000	0.00000
Random Read	0.002 ms	0.008 ms	0.00000	0.00000
Total	0.003 ms	112.659 ms	0.00000	0.00000

```
Issue command: tiotest -d /mnt/xfstype -f 100 -t 1 -b 8192
Tiotest results for 1 concurrent io threads:
```

Item	Time	Rate	Usr CPU	Sys CPU	
Write	100 MBs	2.2 s	45.913 MB/s	0.0 %	13.2 %
Random Write	8 MBs	1.3 s	6.161 MB/s	0.0 %	0.6 %
Read	100 MBs	0.1 s	1465.674 MB/s	11.7 %	87.9 %
Random Read	8 MBs	0.0 s	1232.644 MB/s	0.0 %	63.1 %

```
Tiotest latency results:
```

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.021 ms	0.170 ms	0.00000	0.00000
Random Write	0.008 ms	0.021 ms	0.00000	0.00000
Read	0.005 ms	0.037 ms	0.00000	0.00000
Random Read	0.005 ms	0.022 ms	0.00000	0.00000
Total	0.012 ms	0.170 ms	0.00000	0.00000

```
Starting multi-thread throughput test ...
```

```
=====
Issue command: tiotest -d /mnt/xfstype -f 10 -t 8 -b 256
Tiotest results for 8 concurrent io threads:
```

Item	Time	Rate	Usr CPU	Sys CPU
Write	80 MBs	5.1 s	15.774 MB/s	39.7 %
Random Write	2 MBs	3.7 s	0.533 MB/s	0.8 %
Read	80 MBs	0.7 s	112.044 MB/s	234.7 %
Random Read	2 MBs	0.0 s	80.105 MB/s	65.6 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.018 ms	312.162 ms	0.00000	0.00000
Random Write	0.007 ms	0.211 ms	0.00000	0.00000
Read	0.008 ms	300.137 ms	0.00000	0.00000
Random Read	0.004 ms	0.084 ms	0.00000	0.00000
Total	0.013 ms	312.162 ms	0.00000	0.00000

Issue command: tiotest -d /mnt/xfst -f 10 -t 8 -b 8192

Tiotest results for 8 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	80 MBs	2.9 s	27.120 MB/s	0.0 %
Random Write	62 MBs	2.5 s	24.519 MB/s	2.4 %
Read	80 MBs	0.0 s	1762.852 MB/s	52.9 %
Random Read	62 MBs	0.0 s	1543.591 MB/s	118.6 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.040 ms	57.627 ms	0.00000	0.00000
Random Write	0.018 ms	0.222 ms	0.00000	0.00000
Read	0.008 ms	0.228 ms	0.00000	0.00000
Random Read	0.008 ms	0.065 ms	0.00000	0.00000
Total	0.019 ms	57.627 ms	0.00000	0.00000

Issue command: tiotest -d /mnt/xfst -f 10 -t 16 -b 256

Tiotest results for 16 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	160 MBs	9.9 s	16.177 MB/s	95.0 %
Random Write	4 MBs	7.3 s	0.532 MB/s	4.1 %
Read	160 MBs	1.4 s	111.203 MB/s	415.6 %
Random Read	4 MBs	0.0 s	79.989 MB/s	98.3 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
------	-----------------	-----------------	----------	-----------

Write	0.043 ms	872.361 ms	0.00000	0.00000
Random Write	0.007 ms	0.633 ms	0.00000	0.00000
Read	0.015 ms	723.520 ms	0.00000	0.00000
Random Read	0.004 ms	0.208 ms	0.00000	0.00000
Total	0.028 ms	872.361 ms	0.00000	0.00000

Issue command: tiotest -d /mnt/xfstest -f 10 -t 16 -b 8192

Tiotest results for 16 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write 160 MBs	8.0 s	20.038 MB/s	2.5 %	100.2 %
Random Write 125 MBs	7.1 s	17.495 MB/s	2.4 %	40.1 %
Read 160 MBs	0.1 s	1814.944 MB/s	104.4 %	313.1 %
Random Read 125 MBs	0.1 s	1561.641 MB/s	60.0 %	329.8 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.121 ms	216.993 ms	0.00000	0.00000
Random Write	0.018 ms	0.466 ms	0.00000	0.00000
Read	0.008 ms	10.993 ms	0.00000	0.00000
Random Read	0.008 ms	0.127 ms	0.00000	0.00000
Total	0.042 ms	216.993 ms	0.00000	0.00000

Filesystem label=

OS type: Linux

Block size=2048 (log=1)

Fragment size=2048 (log=1)

2445312 inodes, 9771520 blocks

488576 blocks (5.00%) reserved for the super user

First data block=0

Maximum filesystem blocks=547356672

597 block groups

16384 blocks per group, 16384 fragments per group

4096 inodes per group

Superblock backups stored on blocks:

16384, 49152, 81920, 114688, 147456, 409600, 442368, 802816, 1327104,
2048000, 3981312, 5619712

Writing inode

Writing superblocks and filesystem accounting information: done

This filesystem will be automatically checked every 27 mounts or 180 days, whichever comes first. Use tune2fs -c or -i to override.

/dev/mapper/VolGroup00-LogVol00 on / type ext3 (rw)

proc on /proc type proc (rw)

sysfs on /sys type sysfs (rw)

```

devpts on /dev/pts type devpts (rw,gid=5,mode=620)
/dev/sda1 on /boot type ext3 (rw)
tmpfs on /dev/shm type tmpfs (rw)
none on /proc/sys/fs/binfmt_misc type binfmt_misc (rw)
sunrpc on /var/lib/nfs/rpc_pipefs type rpc_pipefs (rw)
/dev/sda5 on /mnt/xfst type ext2 (rw)
Starting large file throughput test...

```

```

=====
Issue command: tiotest -d /mnt/xfst -f 100 -t 1 -b 256
Tiotest results for 1 concurrent io threads:

```

Item	Time	Rate	Usr CPU	Sys CPU
Write	100 MBs 2.5 s	39.993 MB/s	9.8 %	46.9 %
Random Write	0 MBs 1.3 s	0.192 MB/s	0.0 %	0.3 %
Read	100 MBs 1.1 s	94.120 MB/s	21.8 %	77.9 %
Random Read	0 MBs 0.0 s	62.424 MB/s	0.0 %	0.0 %

```
Tiotest latency results:
```

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.003 ms	107.627 ms	0.00000	0.00000
Random Write	0.003 ms	0.012 ms	0.00000	0.00000
Read	0.002 ms	0.538 ms	0.00000	0.00000
Random Read	0.002 ms	0.008 ms	0.00000	0.00000
Total	0.003 ms	107.627 ms	0.00000	0.00000

```

Issue command: tiotest -d /mnt/xfst -f 100 -t 1 -b 8192
Tiotest results for 1 concurrent io threads:

```

Item	Time	Rate	Usr CPU	Sys CPU
Write	100 MBs 1.7 s	59.437 MB/s	0.7 %	10.9 %
Random Write	8 MBs 1.2 s	6.333 MB/s	0.3 %	0.3 %
Read	100 MBs 0.1 s	1479.553 MB/s	5.9 %	88.8 %
Random Read	8 MBs 0.0 s	1249.400 MB/s	0.0 %	64.0 %

```
Tiotest latency results:
```

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.014 ms	0.093 ms	0.00000	0.00000
Random Write	0.007 ms	0.019 ms	0.00000	0.00000
Read	0.005 ms	0.036 ms	0.00000	0.00000
Random Read	0.005 ms	0.011 ms	0.00000	0.00000
Total	0.009 ms	0.093 ms	0.00000	0.00000

```
Starting multi-thread throughput test ...
```

Issue command: tiotest -d /mnt/xfstest -f 10 -t 8 -b 256

Tiotest results for 8 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	80 MBs 3.4 s	23.879 MB/s	64.8 %	362.4 %
Random Write	2 MBs 3.0 s	0.648 MB/s	0.3 %	17.0 %
Read	80 MBs 0.7 s	110.747 MB/s	198.8 %	620.2 %
Random Read	2 MBs 0.0 s	80.135 MB/s	98.5 %	295.4 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.015 ms	400.169 ms	0.00000	0.00000
Random Write	0.006 ms	0.478 ms	0.00000	0.00000
Read	0.007 ms	81.858 ms	0.00000	0.00000
Random Read	0.004 ms	0.038 ms	0.00000	0.00000
Total	0.011 ms	400.169 ms	0.00000	0.00000

Issue command: tiotest -d /mnt/xfstest -f 10 -t 8 -b 8192

Tiotest results for 8 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	80 MBs 2.0 s	40.246 MB/s	4.6 %	64.4 %
Random Write	62 MBs 2.2 s	28.320 MB/s	0.7 %	34.3 %
Read	80 MBs 0.0 s	1794.205 MB/s	17.9 %	358.9 %
Random Read	62 MBs 0.0 s	1577.287 MB/s	30.3 %	494.7 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.024 ms	0.292 ms	0.00000	0.00000
Random Write	0.016 ms	0.207 ms	0.00000	0.00000
Read	0.007 ms	0.106 ms	0.00000	0.00000
Random Read	0.011 ms	29.441 ms	0.00000	0.00000
Total	0.015 ms	29.441 ms	0.00000	0.00000

Issue command: tiotest -d /mnt/xfstest -f 10 -t 16 -b 256

Tiotest results for 16 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	160 MBs 7.0 s	22.820 MB/s	121.1 %	680.4 %
Random Write	4 MBs 6.6 s	0.591 MB/s	5.1 %	19.8 %
Read	160 MBs 1.4 s	111.374 MB/s	361.7 %	1542.9 %
Random Read	4 MBs 0.0 s	79.750 MB/s	89.8 %	253.2 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.033 ms	984.368 ms	0.00000	0.00000
Random Write	0.007 ms	1.288 ms	0.00000	0.00000
Read	0.017 ms	790.894 ms	0.00000	0.00000
Random Read	0.004 ms	0.053 ms	0.00000	0.00000
Total	0.025 ms	984.368 ms	0.00000	0.00000

Issue command: tiotest -d /mnt/xfstest -f 10 -t 16 -b 8192

Tiotest results for 16 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	160 MBs 5.7 s	28.262 MB/s	4.0 %	106.4 %
Random Write	125 MBs 5.6 s	22.424 MB/s	2.2 %	47.1 %
Read	160 MBs 0.1 s	1843.169 MB/s	82.9 %	331.8 %
Random Read	125 MBs 0.1 s	1575.260 MB/s	50.4 %	342.8 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.032 ms	82.894 ms	0.00000	0.00000
Random Write	0.016 ms	0.865 ms	0.00000	0.00000
Read	0.008 ms	10.948 ms	0.00000	0.00000
Random Read	0.007 ms	0.118 ms	0.00000	0.00000
Total	0.016 ms	82.894 ms	0.00000	0.00000

Filesystem label=

OS type: Linux

Block size=4096 (log=2)

Fragment size=4096 (log=2)

2443200 inodes, 4885760 blocks

244288 blocks (5.00%) reserved for the super user

First data block=0

Maximum filesystem blocks=0

150 block groups

32768 blocks per group, 32768 fragments per group

16288 inodes per group

Superblock backups stored on blocks:

32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632, 2654208,
4096000

Writing inode tables:

Writing superblocks and filesystem accounting information: done

This filesystem will be automatically checked every 20 mounts or
180 days, whichever comes first. Use tune2fs -c or -i to override.

```

/dev/mapper/VolGroup00-LogVol00 on / type ext3 (rw)
proc on /proc type proc (rw)
sysfs on /sys type sysfs (rw)
devpts on /dev/pts type devpts (rw,gid=5,mode=620)
/dev/sda1 on /boot type ext3 (rw)
tmpfs on /dev/shm type tmpfs (rw)
none on /proc/sys/fs/binfmt_misc type binfmt_misc (rw)
sunrpc on /var/lib/nfs/rpc_pipefs type rpc_pipefs (rw)
/dev/sda5 on /mnt/xfstest type ext2 (rw)
Starting large file throughput test...

```

```

=====
Issue command: tiotest -d /mnt/xfstest -f 100 -t 1 -b 256
Tiotest results for 1 concurrent io threads:

```

Item	Time	Rate	Usr CPU	Sys CPU
Write	100 MBs 2.2 s	45.721 MB/s	12.8 %	48.5 %
Random Write	0 MBs 1.2 s	0.197 MB/s	0.3 %	0.0 %
Read	100 MBs 1.1 s	95.041 MB/s	25.1 %	74.5 %
Random Read	0 MBs 0.0 s	62.059 MB/s	0.0 %	0.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.003 ms	9.856 ms	0.00000	0.00000
Random Write	0.003 ms	0.038 ms	0.00000	0.00000
Read	0.002 ms	0.258 ms	0.00000	0.00000
Random Read	0.002 ms	0.027 ms	0.00000	0.00000
Total	0.002 ms	9.856 ms	0.00000	0.00000

```

Issue command: tiotest -d /mnt/xfstest -f 100 -t 1 -b 8192
Tiotest results for 1 concurrent io threads:

```

Item	Time	Rate	Usr CPU	Sys CPU
Write	100 MBs 1.7 s	60.238 MB/s	0.0 %	9.9 %
Random Write	8 MBs 1.3 s	6.085 MB/s	0.3 %	0.3 %
Read	100 MBs 0.1 s	1471.800 MB/s	5.9 %	88.3 %
Random Read	8 MBs 0.0 s	1241.064 MB/s	63.6 %	0.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.012 ms	0.085 ms	0.00000	0.00000
Random Write	0.007 ms	0.018 ms	0.00000	0.00000
Read	0.005 ms	0.092 ms	0.00000	0.00000
Random Read	0.005 ms	0.011 ms	0.00000	0.00000
Total	0.008 ms	0.092 ms	0.00000	0.00000

Starting multi-thread throughput test ...

Issue command: tiotest -d /mnt/xfstest -f 10 -t 8 -b 256

Tiotest results for 8 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	80 MBs 2.3 s	35.396 MB/s	92.7 %	477.0 %
Random Write	2 MBs 2.1 s	0.948 MB/s	1.2 %	15.3 %
Read	80 MBs 0.7 s	111.310 MB/s	250.5 %	916.1 %
Random Read	2 MBs 0.0 s	80.000 MB/s	32.8 %	360.5 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.015 ms	372.170 ms	0.00000	0.00000
Random Write	0.006 ms	0.191 ms	0.00000	0.00000
Read	0.008 ms	300.128 ms	0.00000	0.00000
Random Read	0.004 ms	0.027 ms	0.00000	0.00000
Total	0.012 ms	372.170 ms	0.00000	0.00000

Issue command: tiotest -d /mnt/xfstest -f 10 -t 8 -b 8192

Tiotest results for 8 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	80 MBs 1.9 s	42.990 MB/s	3.0 %	76.7 %
Random Write	62 MBs 1.9 s	33.628 MB/s	2.4 %	36.6 %
Read	80 MBs 0.0 s	1794.607 MB/s	0.0 %	385.9 %
Random Read	62 MBs 0.0 s	1544.926 MB/s	29.7 %	316.4 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.032 ms	99.994 ms	0.00000	0.00000
Random Write	0.016 ms	0.834 ms	0.00000	0.00000
Read	0.007 ms	0.068 ms	0.00000	0.00000
Random Read	0.007 ms	0.035 ms	0.00000	0.00000
Total	0.016 ms	99.994 ms	0.00000	0.00000

Issue command: tiotest -d /mnt/xfstest -f 10 -t 16 -b 256

Tiotest results for 16 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	160 MBs 5.0 s	32.070 MB/s	159.1 %	824.2 %
Random Write	4 MBs 4.8 s	0.808 MB/s	3.3 %	25.8 %

```
| Read          160 MBs | 1.4 s | 111.492 MB/s | 350.1 % | 1547.3 % |
| Random Read   4 MBs | 0.0 s | 80.227 MB/s | 65.7 % | 328.6 % |
```

Tiotest latency results:

```
+-----+-----+-----+-----+-----+
| Item          | Average latency | Maximum latency | % >2 sec | % >10 sec |
+-----+-----+-----+-----+-----+
| Write         | 0.026 ms       | 984.391 ms     | 0.00000  | 0.00000  |
| Random Write  | 0.006 ms       | 0.279 ms       | 0.00000  | 0.00000  |
| Read         | 0.016 ms       | 700.274 ms     | 0.00000  | 0.00000  |
| Random Read   | 0.004 ms       | 0.064 ms       | 0.00000  | 0.00000  |
+-----+-----+-----+-----+-----+
| Total        | 0.021 ms       | 984.391 ms     | 0.00000  | 0.00000  |
+-----+-----+-----+-----+-----+
```

Issue command: tiotest -d /mnt/xfst -f 10 -t 16 -b 8192

Tiotest results for 16 concurrent io threads:

```
+-----+-----+-----+-----+-----+
| Item          | Time          | Rate           | Usr CPU | Sys CPU |
+-----+-----+-----+-----+-----+
| Write        160 MBs | 4.2 s | 37.749 MB/s | 6.7 % | 99.2 % |
| Random Write 125 MBs | 4.1 s | 30.644 MB/s | 7.2 % | 61.4 % |
| Read        160 MBs | 0.1 s | 1829.659 MB/s | 54.9 % | 338.5 % |
| Random Read 125 MBs | 0.1 s | 1584.826 MB/s | 60.9 % | 334.7 % |
+-----+-----+-----+-----+-----+
```

Tiotest latency results:

```
+-----+-----+-----+-----+-----+
| Item          | Average latency | Maximum latency | % >2 sec | % >10 sec |
+-----+-----+-----+-----+-----+
| Write         | 0.032 ms       | 222.353 ms     | 0.00000  | 0.00000  |
| Random Write  | 0.016 ms       | 0.359 ms       | 0.00000  | 0.00000  |
| Read         | 0.007 ms       | 0.103 ms       | 0.00000  | 0.00000  |
| Random Read   | 0.007 ms       | 0.063 ms       | 0.00000  | 0.00000  |
+-----+-----+-----+-----+-----+
| Total        | 0.016 ms       | 222.353 ms     | 0.00000  | 0.00000  |
+-----+-----+-----+-----+-----+
```

Filesystem label=

OS type: Linux

Block size=1024 (log=0)

Fragment size=1024 (log=0)

2443264 inodes, 19543040 blocks

977152 blocks (5.00%) reserved for the super user

First data block=1

Maximum filesystem blocks=86769664

2386 block groups

8192 blocks per group, 8192 fragments per group

1024 inodes per group

Superblock backups stored on blocks:

```
8193, 24577, 40961, 57345, 73729, 204801, 221185, 401409, 663553,
1024001, 1990657, 2809857, 5120001, 5971969, 17915905
```

Writing inode tables

Writing superblocks and filesystem accounting information: done

This filesystem will be automatically checked every 26 mounts or 180 days, whichever comes first. Use tune2fs -c or -i to override.

```
/dev/mapper/VolGroup00-LogVol00 on / type ext3 (rw)
proc on /proc type proc (rw)
sysfs on /sys type sysfs (rw)
devpts on /dev/pts type devpts (rw,gid=5,mode=620)
/dev/sda1 on /boot type ext3 (rw)
tmpfs on /dev/shm type tmpfs (rw)
none on /proc/sys/fs/binfmt_misc type binfmt_misc (rw)
sunrpc on /var/lib/nfs/rpc_pipefs type rpc_pipefs (rw)
/dev/sda5 on /mnt/xfs type ext2 (rw)
Starting large file throughput test...
```

```
=====
Issue command: tiotest -d /mnt/xfs -f 100 -t 1 -b 256
Tiotest results for 1 concurrent io threads:
```

Item	Time	Rate	Usr CPU	Sys CPU
Write 100 MBs	2.9 s	34.619 MB/s	9.3 %	42.0 %
Random Write 0 MBs	1.3 s	0.192 MB/s	0.0 %	0.6 %
Read 100 MBs	1.1 s	94.208 MB/s	24.5 %	75.4 %
Random Read 0 MBs	0.0 s	61.636 MB/s	0.0 %	0.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.004 ms	112.690 ms	0.00000	0.00000
Random Write	0.003 ms	0.015 ms	0.00000	0.00000
Read	0.002 ms	0.244 ms	0.00000	0.00000
Random Read	0.002 ms	0.033 ms	0.00000	0.00000
Total	0.003 ms	112.690 ms	0.00000	0.00000

```
Issue command: tiotest -d /mnt/xfs -f 100 -t 1 -b 8192
Tiotest results for 1 concurrent io threads:
```

Item	Time	Rate	Usr CPU	Sys CPU
Write 100 MBs	2.3 s	43.866 MB/s	0.7 %	11.2 %
Random Write 8 MBs	1.3 s	5.988 MB/s	0.0 %	0.6 %
Read 100 MBs	0.1 s	1463.700 MB/s	5.9 %	93.7 %
Random Read 8 MBs	0.0 s	1236.742 MB/s	0.0 %	63.3 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.020 ms	0.117 ms	0.00000	0.00000
Random Write	0.008 ms	0.022 ms	0.00000	0.00000
Read	0.005 ms	0.078 ms	0.00000	0.00000
Random Read	0.005 ms	0.010 ms	0.00000	0.00000

```
| Total          |          0.012 ms |          0.117 ms | 0.00000 | 0.00000 |
+-----+-----+-----+-----+-----+
```

Starting multi-thread throughput test ...

```
=====
Issue command: tiotest -d /mnt/xfstest -f 10 -t 8 -b 256
Tiotest results for 8 concurrent io threads:
```

```
+-----+-----+-----+-----+-----+
| Item          | Time          | Rate          | Usr CPU      | Sys CPU      |
+-----+-----+-----+-----+-----+
| Write         | 80 MBs       | 4.5 s        | 17.758 MB/s  | 49.0 %      | 311.8 %      |
| Random Write  | 2 MBs        | 3.5 s        | 0.562 MB/s   | 0.0 %      | 11.5 %      |
| Read         | 80 MBs       | 0.7 s        | 110.690 MB/s | 219.7 %     | 795.9 %     |
| Random Read   | 2 MBs        | 0.0 s        | 67.242 MB/s  | 27.5 %     | 275.4 %     |
+-----+-----+-----+-----+-----+
```

Tiotest latency results:

```
+-----+-----+-----+-----+-----+
| Item          | Average latency | Maximum latency | % >2 sec    | % >10 sec   |
+-----+-----+-----+-----+-----+
| Write         | 0.019 ms      | 472.196 ms    | 0.00000    | 0.00000    |
| Random Write  | 0.007 ms      | 0.450 ms      | 0.00000    | 0.00000    |
| Read         | 0.009 ms      | 223.803 ms    | 0.00000    | 0.00000    |
| Random Read   | 0.004 ms      | 0.180 ms      | 0.00000    | 0.00000    |
+-----+-----+-----+-----+-----+
| Total        | 0.014 ms      | 472.196 ms    | 0.00000    | 0.00000    |
+-----+-----+-----+-----+-----+
```

```
Issue command: tiotest -d /mnt/xfstest -f 10 -t 8 -b 8192
Tiotest results for 8 concurrent io threads:
```

```
+-----+-----+-----+-----+-----+
| Item          | Time          | Rate          | Usr CPU      | Sys CPU      |
+-----+-----+-----+-----+-----+
| Write         | 80 MBs       | 3.1 s        | 25.573 MB/s  | 2.3 %      | 52.9 %      |
| Random Write  | 62 MBs       | 2.6 s        | 23.758 MB/s  | 1.2 %      | 33.0 %      |
| Read         | 80 MBs       | 0.0 s        | 1780.865 MB/s | 53.4 %     | 338.4 %     |
| Random Read   | 62 MBs       | 0.0 s        | 1562.734 MB/s | 0.0 %     | 530.1 %     |
+-----+-----+-----+-----+-----+
```

Tiotest latency results:

```
+-----+-----+-----+-----+-----+
| Item          | Average latency | Maximum latency | % >2 sec    | % >10 sec   |
+-----+-----+-----+-----+-----+
| Write         | 0.040 ms      | 84.217 ms     | 0.00000    | 0.00000    |
| Random Write  | 0.025 ms      | 60.441 ms     | 0.00000    | 0.00000    |
| Read         | 0.008 ms      | 0.055 ms      | 0.00000    | 0.00000    |
| Random Read   | 0.011 ms      | 29.783 ms     | 0.00000    | 0.00000    |
+-----+-----+-----+-----+-----+
| Total        | 0.021 ms      | 84.217 ms     | 0.00000    | 0.00000    |
+-----+-----+-----+-----+-----+
```

```
Issue command: tiotest -d /mnt/xfstest -f 10 -t 16 -b 256
Tiotest results for 16 concurrent io threads:
```

```
+-----+-----+-----+-----+-----+
| Item          | Time          | Rate          | Usr CPU      | Sys CPU      |
+-----+-----+-----+-----+-----+
```

Write	160 MBs	10.3 s	15.586 MB/s	94.0 %	580.2 %
Random Write	4 MBs	7.5 s	0.520 MB/s	4.4 %	20.7 %
Read	160 MBs	1.4 s	111.528 MB/s	332.7 %	1129.0 %
Random Read	4 MBs	0.0 s	80.058 MB/s	32.8 %	360.7 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.044 ms	720.343 ms	0.00000	0.00000
Random Write	0.008 ms	9.253 ms	0.00000	0.00000
Read	0.011 ms	704.269 ms	0.00000	0.00000
Random Read	0.004 ms	0.107 ms	0.00000	0.00000
Total	0.027 ms	720.343 ms	0.00000	0.00000

Issue command: tiotest -d /mnt/xfstest -f 10 -t 16 -b 8192

Tiotest results for 16 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	160 MBs	7.0 s	22.786 MB/s	2.7 %
Random Write	125 MBs	6.0 s	21.008 MB/s	7.2 %
Read	160 MBs	0.1 s	1832.488 MB/s	18.3 %
Random Read	125 MBs	0.1 s	1575.458 MB/s	40.3 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.140 ms	375.711 ms	0.00000	0.00000
Random Write	0.017 ms	0.695 ms	0.00000	0.00000
Read	0.007 ms	0.194 ms	0.00000	0.00000
Random Read	0.007 ms	0.081 ms	0.00000	0.00000
Total	0.047 ms	375.711 ms	0.00000	0.00000

Filesystem label=

OS type: Linux

Block size=2048 (log=1)

Fragment size=2048 (log=1)

2445312 inodes, 9771520 blocks

488576 blocks (5.00%) reserved for the super user

First data block=0

Maximum filesystem blocks=547356672

597 block groups

16384 blocks per group, 16384 fragments per group

4096 inodes per group

Superblock backups stored on blocks:

16384, 49152, 81920, 114688, 147456, 409600, 442368, 802816, 1327104,
2048000, 3981312, 5619712

Writing inode tables:

Writing superblocks and filesystem accounting information: done

This filesystem will be automatically checked every 25 mounts or 180 days, whichever comes first. Use tune2fs -c or -i to override.

/dev/mapper/VolGroup00-LogVol00 on / type ext3 (rw)

proc on /proc type proc (rw)

sysfs on /sys type sysfs (rw)

devpts on /dev/pts type devpts (rw,gid=5,mode=620)

/dev/sda1 on /boot type ext3 (rw)

tmpfs on /dev/shm type tmpfs (rw)

none on /proc/sys/fs/binfmt_misc type binfmt_misc (rw)

sunrpc on /var/lib/nfs/rpc_pipefs type rpc_pipefs (rw)

/dev/sda5 on /mnt/xfstest type ext2 (rw)

Starting large file throughput test...

=====
Issue command: tiotest -d /mnt/xfstest -f 100 -t 1 -b 256
Tiotest results for 1 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write 100 MBs	2.3 s	42.770 MB/s	12.1 %	48.4 %
Random Write 0 MBs	1.2 s	0.198 MB/s	0.0 %	0.7 %
Read 100 MBs	1.1 s	93.897 MB/s	25.2 %	74.7 %
Random Read 0 MBs	0.0 s	62.059 MB/s	0.0 %	0.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.003 ms	65.539 ms	0.00000	0.00000
Random Write	0.003 ms	0.013 ms	0.00000	0.00000
Read	0.002 ms	0.916 ms	0.00000	0.00000
Random Read	0.002 ms	0.041 ms	0.00000	0.00000
Total	0.003 ms	65.539 ms	0.00000	0.00000

Issue command: tiotest -d /mnt/xfstest -f 100 -t 1 -b 8192

Tiotest results for 1 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write 100 MBs	1.7 s	57.959 MB/s	0.5 %	10.9 %
Random Write 8 MBs	1.3 s	5.944 MB/s	0.0 %	0.6 %
Read 100 MBs	0.1 s	1464.086 MB/s	5.9 %	93.7 %
Random Read 8 MBs	0.0 s	1224.530 MB/s	0.0 %	62.7 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.014 ms	0.105 ms	0.00000	0.00000
Random Write	0.007 ms	0.018 ms	0.00000	0.00000

Read	0.005 ms	0.056 ms	0.00000	0.00000
Random Read	0.005 ms	0.023 ms	0.00000	0.00000
Total	0.009 ms	0.105 ms	0.00000	0.00000

Starting multi-thread throughput test ...

Issue command: tiotest -d /mnt/xfstest -f 10 -t 8 -b 256
 Tiotest results for 8 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write 80 MBs	3.1 s	25.775 MB/s	75.0 %	394.6 %
Random Write 2 MBs	3.0 s	0.660 MB/s	3.1 %	16.5 %
Read 80 MBs	0.7 s	111.017 MB/s	236.5 %	924.8 %
Random Read 2 MBs	0.0 s	79.515 MB/s	65.1 %	325.7 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.019 ms	312.142 ms	0.00000	0.00000
Random Write	0.007 ms	0.185 ms	0.00000	0.00000
Read	0.012 ms	300.133 ms	0.00000	0.00000
Random Read	0.004 ms	0.029 ms	0.00000	0.00000
Total	0.015 ms	312.142 ms	0.00000	0.00000

Issue command: tiotest -d /mnt/xfstest -f 10 -t 8 -b 8192
 Tiotest results for 8 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write 80 MBs	2.4 s	33.777 MB/s	7.8 %	61.5 %
Random Write 62 MBs	2.6 s	23.811 MB/s	3.0 %	28.5 %
Read 80 MBs	0.0 s	1761.145 MB/s	35.2 %	440.3 %
Random Read 62 MBs	0.0 s	1548.179 MB/s	19.8 %	376.5 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.028 ms	4.549 ms	0.00000	0.00000
Random Write	0.016 ms	0.218 ms	0.00000	0.00000
Read	0.010 ms	22.039 ms	0.00000	0.00000
Random Read	0.008 ms	0.079 ms	0.00000	0.00000
Total	0.016 ms	22.039 ms	0.00000	0.00000

Issue command: tiotest -d /mnt/xfstest -f 10 -t 16 -b 256

Tiotest results for 16 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	160 MBs	6.3 s	25.249 MB/s	130.7 %
Random Write	4 MBs	5.9 s	0.657 MB/s	5.7 %
Read	160 MBs	1.5 s	110.027 MB/s	366.1 %
Random Read	4 MBs	0.0 s	79.286 MB/s	0.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.029 ms	1028.421 ms	0.00000	0.00000
Random Write	0.007 ms	0.616 ms	0.00000	0.00000
Read	0.016 ms	700.250 ms	0.00000	0.00000
Random Read	0.004 ms	0.044 ms	0.00000	0.00000
Total	0.022 ms	1028.421 ms	0.00000	0.00000

Issue command: tiotest -d /mnt/xfstest -f 10 -t 16 -b 8192

Tiotest results for 16 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	160 MBs	6.4 s	25.130 MB/s	3.3 %
Random Write	125 MBs	6.0 s	20.882 MB/s	3.5 %
Read	160 MBs	0.1 s	1823.466 MB/s	36.5 %
Random Read	125 MBs	0.1 s	1567.320 MB/s	30.1 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.027 ms	0.504 ms	0.00000	0.00000
Random Write	0.015 ms	0.887 ms	0.00000	0.00000
Read	0.007 ms	0.230 ms	0.00000	0.00000
Random Read	0.007 ms	1.072 ms	0.00000	0.00000
Total	0.015 ms	1.072 ms	0.00000	0.00000

Filesystem label=

OS type: Linux

Block size=4096 (log=2)

Fragment size=4096 (log=2)

2443200 inodes, 4885760 blocks

244288 blocks (5.00%) reserved for the super user

First data block=0

Maximum filesystem blocks=0

150 block groups

32768 blocks per group, 32768 fragments per group

16288 inodes per group

Superblock backups stored on blocks:

32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632, 2654208,
4096000

Writing inode tables:

Writing superblocks and filesystem accounting information: done

This filesystem will be automatically checked every 23 mounts or
180 days, whichever comes first. Use tune2fs -c or -i to override.

/dev/mapper/VolGroup00-LogVol00 on / type ext3 (rw)

proc on /proc type proc (rw)

sysfs on /sys type sysfs (rw)

devpts on /dev/pts type devpts (rw,gid=5,mode=620)

/dev/sda1 on /boot type ext3 (rw)

tmpfs on /dev/shm type tmpfs (rw)

none on /proc/sys/fs/binfmt_misc type binfmt_misc (rw)

sunrpc on /var/lib/nfs/rpc_pipefs type rpc_pipefs (rw)

/dev/sda5 on /mnt/xfstype type ext2 (rw)

Starting large file throughput test...

=====
Issue command: tiotest -d /mnt/xfstype -f 100 -t 1 -b 256

Tiotest results for 1 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write 100 MBs	2.3 s	44.435 MB/s	10.8 %	51.2 %
Random Write 0 MBs	1.3 s	0.195 MB/s	0.0 %	0.3 %
Read 100 MBs	1.1 s	94.097 MB/s	23.0 %	76.8 %
Random Read 0 MBs	0.0 s	62.648 MB/s	0.0 %	0.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.003 ms	63.116 ms	0.00000	0.00000
Random Write	0.003 ms	0.012 ms	0.00000	0.00000
Read	0.002 ms	0.233 ms	0.00000	0.00000
Random Read	0.002 ms	0.007 ms	0.00000	0.00000
Total	0.002 ms	63.116 ms	0.00000	0.00000

Issue command: tiotest -d /mnt/xfstype -f 100 -t 1 -b 8192

Tiotest results for 1 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write 100 MBs	1.6 s	62.435 MB/s	0.2 %	10.0 %
Random Write 8 MBs	1.3 s	6.101 MB/s	0.0 %	0.6 %
Read 100 MBs	0.1 s	1475.993 MB/s	0.0 %	94.5 %
Random Read 8 MBs	0.0 s	1238.310 MB/s	0.0 %	63.4 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
------	-----------------	-----------------	----------	-----------

Write	0.012 ms	0.508 ms	0.00000	0.00000
Random Write	0.007 ms	0.020 ms	0.00000	0.00000
Read	0.005 ms	0.054 ms	0.00000	0.00000
Random Read	0.005 ms	0.026 ms	0.00000	0.00000
Total	0.008 ms	0.508 ms	0.00000	0.00000

Starting multi-thread throughput test ...

=====
 Issue command: tiotest -d /mnt/xfstest -f 10 -t 8 -b 256
 Tiotest results for 8 concurrent io threads:

Item		Time	Rate	Usr CPU	Sys CPU
Write	80 MBs	2.3 s	34.743 MB/s	90.2 %	485.9 %
Random Write	2 MBs	2.2 s	0.874 MB/s	0.0 %	19.7 %
Read	80 MBs	0.7 s	110.367 MB/s	129.7 %	556.8 %
Random Read	2 MBs	0.0 s	79.667 MB/s	97.9 %	293.7 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.013 ms	400.175 ms	0.00000	0.00000
Random Write	0.006 ms	0.164 ms	0.00000	0.00000
Read	0.006 ms	200.131 ms	0.00000	0.00000
Random Read	0.004 ms	0.055 ms	0.00000	0.00000
Total	0.009 ms	400.175 ms	0.00000	0.00000

Issue command: tiotest -d /mnt/xfstest -f 10 -t 8 -b 8192
 Tiotest results for 8 concurrent io threads:

Item		Time	Rate	Usr CPU	Sys CPU
Write	80 MBs	1.6 s	50.095 MB/s	5.0 %	79.2 %
Random Write	62 MBs	2.1 s	29.664 MB/s	3.6 %	38.9 %
Read	80 MBs	0.0 s	1806.848 MB/s	18.1 %	361.4 %
Random Read	62 MBs	0.0 s	1563.555 MB/s	40.0 %	330.2 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.022 ms	0.370 ms	0.00000	0.00000
Random Write	0.025 ms	69.486 ms	0.00000	0.00000
Read	0.007 ms	0.073 ms	0.00000	0.00000
Random Read	0.008 ms	0.045 ms	0.00000	0.00000
Total	0.015 ms	69.486 ms	0.00000	0.00000

Issue command: tiotest -d /mnt/xfstest -f 10 -t 16 -b 256

Tiotest results for 16 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	160 MBs 5.1 s	31.602 MB/s	154.2 %	821.5 %
Random Write	4 MBs 4.6 s	0.842 MB/s	5.5 %	30.1 %
Read	160 MBs 1.4 s	111.005 MB/s	327.2 %	1294.7 %
Random Read	4 MBs 0.0 s	78.304 MB/s	64.2 %	296.7 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.028 ms	972.418 ms	0.00000	0.00000
Random Write	0.007 ms	0.720 ms	0.00000	0.00000
Read	0.014 ms	856.290 ms	0.00000	0.00000
Random Read	0.004 ms	0.062 ms	0.00000	0.00000
Total	0.020 ms	972.418 ms	0.00000	0.00000

Issue command: tiotest -d /mnt/xfstest -f 10 -t 16 -b 8192

Tiotest results for 16 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	160 MBs 3.3 s	48.326 MB/s	7.7 %	114.2 %
Random Write	125 MBs 3.6 s	34.258 MB/s	5.4 %	73.5 %
Read	160 MBs 0.1 s	1833.034 MB/s	55.0 %	330.0 %
Random Read	125 MBs 0.1 s	1583.902 MB/s	111.5 %	283.9 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.021 ms	0.339 ms	0.00000	0.00000
Random Write	0.016 ms	1.111 ms	0.00000	0.00000
Read	0.007 ms	0.069 ms	0.00000	0.00000
Random Read	0.007 ms	0.076 ms	0.00000	0.00000
Total	0.013 ms	1.111 ms	0.00000	0.00000