

```
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:  
Creating journal (32768 blocks): done  
Writing superblocks and filesystem accounting information: done
```

This filesystem will be automatically checked every 24 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 ext3 (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 inode tables  
Creating journal (32768 blocks): done  
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/xfstest type ext3 (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 9.8 s	10.241 MB/s	11.6 %	76.9 %
Random Write	0 MBs 1.2 s	0.051 MB/s	0.0 %	0.3 %
Read	100 MBs 4.1 s	24.196 MB/s	24.9 %	75.0 %
Random Read	0 MBs 0.0 s	13.859 MB/s	0.0 %	90.8 %

```
Tiotest latency results:
```

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.005 ms	150.481 ms	0.00000	0.00000
Random Write	0.004 ms	0.029 ms	0.00000	0.00000
Read	0.002 ms	0.231 ms	0.00000	0.00000
Random Read	0.003 ms	0.333 ms	0.00000	0.00000
Total	0.003 ms	150.481 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 7.7 s	10.365 MB/s	163.0 %	1310.7 %
Random Write	0 MBs 2.8 s	0.175 MB/s	2.9 %	20.2 %
Read	80 MBs 2.8 s	28.753 MB/s	302.1 %	1169.6 %
Random Read	0 MBs 0.0 s	20.366 MB/s	133.5 %	233.6 %

```
Tiotest latency results:
```

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.038 ms	910.762 ms	0.00000	0.00000
Random Write	0.010 ms	0.433 ms	0.00000	0.00000
Read	0.010 ms	300.141 ms	0.00000	0.00000
Random Read	0.004 ms	0.051 ms	0.00000	0.00000
Total	0.024 ms	910.762 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
Creating journal (32768 blocks): done
Writing superblocks and filesystem accounting information: done

```

This filesystem will be automatically checked every 35 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 ext3 (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	9.9 s	10.089 MB/s	12.2 %	71.8 %
Random Write 0 MBs	1.3 s	0.047 MB/s	0.0 %	0.3 %
Read 100 MBs	4.1 s	24.175 MB/s	27.3 %	72.6 %
Random Read 0 MBs	0.0 s	14.775 MB/s	0.0 %	96.8 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.005 ms	553.488 ms	0.00000	0.00000
Random Write	0.004 ms	0.029 ms	0.00000	0.00000
Read	0.002 ms	0.417 ms	0.00000	0.00000
Random Read	0.003 ms	0.026 ms	0.00000	0.00000
Total	0.003 ms	553.488 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 7.3 s	10.973 MB/s	160.1 %	1329.2 %
Random Write	0 MBs 2.7 s	0.178 MB/s	2.5 %	19.9 %
Read	80 MBs 2.8 s	28.718 MB/s	302.4 %	1170.8 %
Random Read	0 MBs 0.0 s	20.327 MB/s	33.3 %	333.1 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.037 ms	1228.586 ms	0.00000	0.00000
Random Write	0.015 ms	45.273 ms	0.00000	0.00000
Read	0.011 ms	300.162 ms	0.00000	0.00000
Random Read	0.004 ms	0.024 ms	0.00000	0.00000
Total	0.024 ms	1228.586 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:

Creating journal (32768 blocks): done

Writing superblocks and filesystem accounting information: done

This filesystem will be automatically checked every 37 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 ext3 (rw)

Starting large file throughput test...

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

Tiotest results for 1 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU	
Write	100 MBs	9.0 s	11.071 MB/s	14.3 %	72.9 %
Random Write	0 MBs	1.2 s	0.049 MB/s	0.0 %	0.3 %
Read	100 MBs	4.1 s	24.558 MB/s	24.2 %	75.7 %
Random Read	0 MBs	0.0 s	14.463 MB/s	0.0 %	94.8 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.004 ms	301.901 ms	0.00000	0.00000
Random Write	0.004 ms	0.027 ms	0.00000	0.00000
Read	0.002 ms	0.321 ms	0.00000	0.00000
Random Read	0.003 ms	0.178 ms	0.00000	0.00000
Total	0.003 ms	301.901 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	6.9 s	11.678 MB/s	162.3 %	1316.6 %
Random Write	0 MBs	2.4 s	0.204 MB/s	2.0 %	20.6 %
Read	80 MBs	2.8 s	28.747 MB/s	277.9 %	1209.6 %
Random Read	0 MBs	0.0 s	20.259 MB/s	99.6 %	232.4 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.033 ms	524.156 ms	0.00000	0.00000
Random Write	0.009 ms	0.172 ms	0.00000	0.00000
Read	0.012 ms	500.209 ms	0.00000	0.00000
Random Read	0.004 ms	0.031 ms	0.00000	0.00000
Total	0.022 ms	524.156 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:

Creating journal (32768 blocks): done

Writing superblocks and filesystem accounting information: done

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 ext3 (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	10.2 s	9.822 MB/s	11.1 %	74.9 %
Random Write 0 MBs	1.3 s	0.047 MB/s	0.0 %	0.3 %
Read 100 MBs	4.1 s	24.344 MB/s	28.4 %	71.6 %
Random Read 0 MBs	0.0 s	13.654 MB/s	0.0 %	89.5 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.005 ms	611.657 ms	0.00000	0.00000
Random Write	0.005 ms	0.030 ms	0.00000	0.00000
Read	0.002 ms	0.860 ms	0.00000	0.00000
Random Read	0.003 ms	0.419 ms	0.00000	0.00000
Total	0.003 ms	611.657 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	7.6 s	10.557 MB/s	156.8 %	1344.7 %
Random Write 0 MBs	3.4 s	0.142 MB/s	1.9 %	10.5 %
Read 80 MBs	2.8 s	28.699 MB/s	295.5 %	1202.9 %
Random Read 0 MBs	0.0 s	20.315 MB/s	33.3 %	316.2 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.037 ms	1594.154 ms	0.00000	0.00000
Random Write	0.008 ms	0.167 ms	0.00000	0.00000
Read	0.011 ms	300.573 ms	0.00000	0.00000
Random Read	0.004 ms	0.049 ms	0.00000	0.00000
Total	0.024 ms	1594.154 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

Creating journal (32768 blocks): 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/xfstype ext3 (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 10.3 s	9.695 MB/s	11.2 %	68.5 %
Random Write	0 MBs 1.3 s	0.048 MB/s	0.0 %	0.6 %
Read	100 MBs 4.1 s	24.200 MB/s	26.9 %	73.0 %
Random Read	0 MBs 0.0 s	14.711 MB/s	0.0 %	96.4 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.005 ms	1021.341 ms	0.00000	0.00000
Random Write	0.004 ms	0.041 ms	0.00000	0.00000
Read	0.002 ms	0.136 ms	0.00000	0.00000
Random Read	0.003 ms	0.028 ms	0.00000	0.00000
Total	0.003 ms	1021.341 ms	0.00000	0.00000

Starting multi-thread throughput test ...

Issue command: tiotest -d /mnt/xfs -f 10 -t 8 -b 64

Tiotest results for 8 concurrent io threads:

Item	Time	Rate	Usr CPU	Sys CPU
Write	80 MBs 7.0 s	11.361 MB/s	146.6 %	1266.1 %
Random Write	0 MBs 2.5 s	0.199 MB/s	3.9 %	25.1 %
Read	80 MBs 2.8 s	28.833 MB/s	335.1 %	1142.1 %
Random Read	0 MBs 0.0 s	20.439 MB/s	67.0 %	301.4 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.033 ms	708.030 ms	0.00000	0.00000
Random Write	0.010 ms	0.196 ms	0.00000	0.00000
Read	0.011 ms	500.200 ms	0.00000	0.00000
Random Read	0.004 ms	0.104 ms	0.00000	0.00000
Total	0.022 ms	708.030 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:

Creating journal (32768 blocks): done

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 ext3 (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 9.4 s	10.691 MB/s	13.6 %	70.5 %
Random Write	0 MBs 1.2 s	0.049 MB/s	0.0 %	0.3 %
Read	100 MBs 4.1 s	24.272 MB/s	25.9 %	74.0 %
Random Read	0 MBs 0.0 s	14.908 MB/s	0.0 %	97.7 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.004 ms	617.503 ms	0.00000	0.00000
Random Write	0.004 ms	0.028 ms	0.00000	0.00000
Read	0.002 ms	0.136 ms	0.00000	0.00000
Random Read	0.003 ms	0.024 ms	0.00000	0.00000
Total	0.003 ms	617.503 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 6.9 s	11.521 MB/s	168.2 %	1326.0 %
Random Write	0 MBs 2.5 s	0.198 MB/s	1.5 %	21.8 %
Read	80 MBs 2.8 s	28.522 MB/s	313.5 %	1199.0 %
Random Read	0 MBs 0.0 s	20.204 MB/s	33.1 %	347.6 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.034 ms	400.203 ms	0.00000	0.00000
Random Write	0.008 ms	0.179 ms	0.00000	0.00000
Read	0.012 ms	400.192 ms	0.00000	0.00000
Random Read	0.004 ms	0.050 ms	0.00000	0.00000

Total	0.023 ms	400.203 ms	0.00000	0.00000
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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 ext3 (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	10.2 s	9.839 MB/s	10.8 %	73.7 %
Random Write	0 MBs	1.3 s	0.048 MB/s	0.0 %	1.0 %
Read	100 MBs	4.1 s	24.215 MB/s	24.8 %	75.2 %
Random Read	0 MBs	0.0 s	13.850 MB/s	0.0 %	90.8 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.005 ms	618.512 ms	0.00000	0.00000
Random Write	0.004 ms	0.028 ms	0.00000	0.00000
Read	0.002 ms	0.796 ms	0.00000	0.00000
Random Read	0.003 ms	0.367 ms	0.00000	0.00000
Total	0.003 ms	618.512 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	8.0 s	9.987 MB/s	142.1 %	1259.9 %
Random Write	0 MBs	2.8 s	0.172 MB/s	7.3 %	19.3 %
Read	80 MBs	2.8 s	28.812 MB/s	288.6 %	1185.0 %
Random Read	0 MBs	0.0 s	20.426 MB/s	100.4 %	267.7 %

```
Tiotest latency results:
```

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.038 ms	1007.305 ms	0.00000	0.00000
Random Write	0.010 ms	0.419 ms	0.00000	0.00000
Read	0.011 ms	400.159 ms	0.00000	0.00000
Random Read	0.004 ms	0.093 ms	0.00000	0.00000
Total	0.025 ms	1007.305 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
```

```
Creating journal (32768 blocks): done
```

```
Writing superblocks and filesystem accounting information: done
```

```
This filesystem will be automatically checked every 35 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 ext3 (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	10.2 s	9.793 MB/s	11.5 %	69.7 %
Random Write	0 MBs	1.3 s	0.048 MB/s	0.0 %	0.3 %
Read	100 MBs	4.1 s	24.104 MB/s	27.3 %	72.6 %
Random Read	0 MBs	0.0 s	14.254 MB/s	93.4 %	0.0 %

```
Tiotest latency results:
```

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.005 ms	769.222 ms	0.00000	0.00000
Random Write	0.004 ms	0.029 ms	0.00000	0.00000
Read	0.002 ms	0.738 ms	0.00000	0.00000
Random Read	0.003 ms	0.209 ms	0.00000	0.00000
Total	0.003 ms	769.222 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	7.3 s	10.967 MB/s	146.2 %	1280.5 %
Random Write	0 MBs	2.9 s	0.167 MB/s	1.6 %	18.1 %
Read	80 MBs	2.8 s	28.884 MB/s	302.9 %	1172.9 %
Random Read	0 MBs	0.0 s	19.738 MB/s	97.0 %	242.6 %

```
Tiotest latency results:
```

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.035 ms	1172.541 ms	0.00000	0.00000
Random Write	0.010 ms	0.903 ms	0.00000	0.00000
Read	0.012 ms	300.143 ms	0.00000	0.00000
Random Read	0.004 ms	0.050 ms	0.00000	0.00000
Total	0.023 ms	1172.541 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:
Creating journal (32768 blocks): done
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/xfstype ext3 (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	8.8 s	11.300 MB/s	13.7 %	76.3 %
Random Write 0 MBs	1.3 s	0.049 MB/s	0.0 %	0.3 %
Read 100 MBs	4.1 s	24.438 MB/s	26.3 %	73.7 %
Random Read 0 MBs	0.0 s	14.446 MB/s	0.0 %	94.7 %

```

Tiotest latency results:

```

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.004 ms	15.425 ms	0.00000	0.00000
Random Write	0.004 ms	0.024 ms	0.00000	0.00000
Read	0.002 ms	0.751 ms	0.00000	0.00000
Random Read	0.003 ms	0.176 ms	0.00000	0.00000
Total	0.003 ms	15.425 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	6.8 s	11.681 MB/s	156.5 %
Random Write	0 MBs	2.6 s	0.191 MB/s	4.1 %
Read	80 MBs	2.8 s	28.636 MB/s	288.4 %
Random Read	0 MBs	0.0 s	20.262 MB/s	99.6 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.033 ms	400.199 ms	0.00000	0.00000
Random Write	0.008 ms	0.397 ms	0.00000	0.00000
Read	0.012 ms	400.163 ms	0.00000	0.00000
Random Read	0.004 ms	0.026 ms	0.00000	0.00000
Total	0.022 ms	400.199 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:

Creating journal (32768 blocks): done

Writing superblocks and filesystem accounting information: done

This filesystem will be automatically checked every 38 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 ext3 (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	4.0 s	24.793 MB/s	7.3 %	66.2 %
Random Write	0 MBs	1.2 s	0.196 MB/s	0.0 %	0.6 %
Read	100 MBs	1.1 s	94.095 MB/s	26.3 %	73.4 %
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	0.007 ms	53.819 ms	0.00000	0.00000
Random Write	0.005 ms	0.032 ms	0.00000	0.00000
Read	0.002 ms	0.146 ms	0.00000	0.00000
Random Read	0.002 ms	0.018 ms	0.00000	0.00000
Total	0.005 ms	53.819 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	2.4 s	41.481 MB/s	0.8 %	37.0 %
Random Write	8 MBs	1.3 s	5.974 MB/s	0.0 %	1.5 %
Read	100 MBs	0.1 s	1453.974 MB/s	23.3 %	75.6 %
Random Read	8 MBs	0.0 s	1228.960 MB/s	0.0 %	62.9 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.118 ms	158.251 ms	0.00000	0.00000
Random Write	0.013 ms	0.043 ms	0.00000	0.00000
Read	0.005 ms	0.096 ms	0.00000	0.00000
Random Read	0.005 ms	0.020 ms	0.00000	0.00000
Total	0.057 ms	158.251 ms	0.00000	0.00000

Starting multi-thread throughput test ...

Issue command: tiotest -d /mnt/xfst -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	25.636 MB/s	74.5 %	1053.6 %
Random Write	2 MBs	2.9 s	0.685 MB/s	6.3 %	18.8 %
Read	80 MBs	0.7 s	110.957 MB/s	281.3 %	878.8 %
Random Read	2 MBs	0.0 s	79.762 MB/s	98.0 %	294.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.048 ms	556.405 ms	0.00000	0.00000
Random Write	0.016 ms	38.054 ms	0.00000	0.00000
Read	0.007 ms	300.128 ms	0.00000	0.00000
Random Read	0.004 ms	0.055 ms	0.00000	0.00000
Total	0.027 ms	556.405 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	2.1 s	37.483 MB/s	1.5 %	408.0 %
Random Write 62 MBs	2.3 s	26.744 MB/s	0.7 %	63.0 %
Read 80 MBs	0.0 s	1748.214 MB/s	69.9 %	314.7 %
Random Read 62 MBs	0.0 s	1547.030 MB/s	19.8 %	376.3 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.352 ms	239.451 ms	0.00000	0.00000
Random Write	0.028 ms	3.401 ms	0.00000	0.00000
Read	0.008 ms	0.059 ms	0.00000	0.00000
Random Read	0.008 ms	0.050 ms	0.00000	0.00000
Total	0.109 ms	239.451 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	5.5 s	29.353 MB/s	211.4 %	2369.3 %
Random Write 4 MBs	6.0 s	0.649 MB/s	2.3 %	45.6 %
Read 160 MBs	1.5 s	106.611 MB/s	331.6 %	1544.1 %
Random Read 4 MBs	0.0 s	80.007 MB/s	81.9 %	311.3 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.090 ms	1854.332 ms	0.00000	0.00000
Random Write	0.012 ms	0.898 ms	0.00000	0.00000
Read	0.016 ms	704.324 ms	0.00000	0.00000
Random Read	0.004 ms	0.051 ms	0.00000	0.00000
Total	0.052 ms	1854.332 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 4.4 s	36.434 MB/s	11.9 %	755.5 %
Random Write	125 MBs 4.6 s	26.891 MB/s	4.0 %	123.7 %
Read	160 MBs 0.1 s	1796.864 MB/s	35.9 %	359.4 %
Random Read	125 MBs 0.1 s	1564.651 MB/s	50.1 %	340.5 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	1.912 ms	1495.405 ms	0.00000	0.00000
Random Write	0.028 ms	2.282 ms	0.00000	0.00000
Read	0.008 ms	0.176 ms	0.00000	0.00000
Random Read	0.008 ms	0.251 ms	0.00000	0.00000
Total	0.547 ms	1495.405 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:

Creating journal (32768 blocks): 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/xfstest type ext3 (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 3.7 s	26.673 MB/s	7.8 %	59.9 %
Random Write	0 MBs 1.3 s	0.194 MB/s	0.0 %	0.6 %
Read	100 MBs 1.1 s	94.920 MB/s	22.8 %	77.1 %
Random Read	0 MBs 0.0 s	61.886 MB/s	0.0 %	0.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.006 ms	31.013 ms	0.00000	0.00000
Random Write	0.004 ms	0.027 ms	0.00000	0.00000
Read	0.002 ms	0.753 ms	0.00000	0.00000
Random Read	0.002 ms	0.018 ms	0.00000	0.00000
Total	0.004 ms	31.013 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 2.7 s	36.783 MB/s	0.7 %	19.3 %
Random Write	8 MBs 1.3 s	6.228 MB/s	0.0 %	1.0 %
Read	100 MBs 0.1 s	1472.602 MB/s	11.8 %	82.5 %
Random Read	8 MBs 0.0 s	1233.033 MB/s	0.0 %	63.1 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.086 ms	481.211 ms	0.00000	0.00000
Random Write	0.011 ms	0.041 ms	0.00000	0.00000
Read	0.005 ms	0.056 ms	0.00000	0.00000
Random Read	0.005 ms	0.027 ms	0.00000	0.00000
Total	0.043 ms	481.211 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 3.2 s	25.396 MB/s	89.1 %	870.4 %
Random Write	2 MBs 2.5 s	0.780 MB/s	0.0 %	25.1 %
Read	80 MBs 0.7 s	111.132 MB/s	227.8 %	785.8 %

```
| Random Read      2 MBs |    0.0 s | 79.954 MB/s | 131.0 % | 409.4 % |
```

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.038 ms	332.177 ms	0.00000	0.00000
Random Write	0.010 ms	0.173 ms	0.00000	0.00000
Read	0.008 ms	298.832 ms	0.00000	0.00000
Random Read	0.006 ms	18.144 ms	0.00000	0.00000
Total	0.023 ms	332.177 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 2.0 s	40.253 MB/s	9.5 %	242.5 %
Random Write	62 MBs 2.1 s	29.909 MB/s	2.7 %	58.2 %
Read	80 MBs 0.0 s	1771.518 MB/s	88.6 %	301.2 %
Random Read	62 MBs 0.0 s	1575.260 MB/s	90.7 %	383.1 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.100 ms	220.116 ms	0.00000	0.00000
Random Write	0.023 ms	1.338 ms	0.00000	0.00000
Read	0.008 ms	0.060 ms	0.00000	0.00000
Random Read	0.011 ms	29.542 ms	0.00000	0.00000
Total	0.038 ms	220.116 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 5.4 s	29.483 MB/s	229.7 %	1876.7 %
Random Write	4 MBs 5.2 s	0.754 MB/s	5.9 %	37.5 %
Read	160 MBs 1.4 s	110.767 MB/s	440.6 %	1545.9 %
Random Read	4 MBs 0.0 s	79.572 MB/s	105.9 %	293.4 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.074 ms	1721.365 ms	0.00000	0.00000
Random Write	0.010 ms	1.008 ms	0.00000	0.00000
Read	0.015 ms	700.261 ms	0.00000	0.00000
Random Read	0.004 ms	0.089 ms	0.00000	0.00000

Total	0.043 ms	1721.365 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	3.9 s	40.991 MB/s	8.9 %	451.2 %
Random Write 125 MBs	4.1 s	30.449 MB/s	1.3 %	106.4 %
Read 160 MBs	0.1 s	1811.061 MB/s	72.4 %	317.0 %
Random Read 125 MBs	0.1 s	1581.678 MB/s	75.9 %	480.9 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.327 ms	1228.652 ms	0.00000	0.00000
Random Write	0.023 ms	0.838 ms	0.00000	0.00000
Read	0.007 ms	0.085 ms	0.00000	0.00000
Random Read	0.012 ms	68.619 ms	0.00000	0.00000
Total	0.101 ms	1228.652 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:

Creating journal (32768 blocks): done

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/xfst type ext3 (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 4.0 s	25.237 MB/s	7.7 %	61.0 %
Random Write	0 MBs 1.3 s	0.194 MB/s	0.0 %	0.3 %
Read	100 MBs 1.1 s	93.922 MB/s	24.8 %	75.5 %
Random Read	0 MBs 0.0 s	61.949 MB/s	0.0 %	0.0 %

```
Tiotest latency results:
```

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.006 ms	19.640 ms	0.00000	0.00000
Random Write	0.004 ms	0.033 ms	0.00000	0.00000
Read	0.002 ms	0.759 ms	0.00000	0.00000
Random Read	0.002 ms	0.019 ms	0.00000	0.00000
Total	0.004 ms	19.640 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 2.5 s	40.338 MB/s	0.5 %	14.5 %
Random Write	8 MBs 1.3 s	6.103 MB/s	0.3 %	0.6 %
Read	100 MBs 0.1 s	1454.736 MB/s	17.5 %	81.5 %
Random Read	8 MBs 0.0 s	1233.618 MB/s	0.0 %	63.2 %

```
Tiotest latency results:
```

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.031 ms	34.492 ms	0.00000	0.00000
Random Write	0.009 ms	0.037 ms	0.00000	0.00000
Read	0.005 ms	0.054 ms	0.00000	0.00000
Random Read	0.005 ms	0.023 ms	0.00000	0.00000
Total	0.017 ms	34.492 ms	0.00000	0.00000

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

```
=====
Issue command: tiotest -d /mnt/xfst -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	28.349 MB/s	78.2 %	866.8 %
Random Write	2 MBs	2.3 s	0.834 MB/s	2.2 %	25.4 %
Read	80 MBs	0.7 s	110.712 MB/s	188.8 %	973.8 %
Random Read	2 MBs	0.0 s	73.159 MB/s	30.0 %	269.7 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.036 ms	400.196 ms	0.00000	0.00000
Random Write	0.009 ms	0.186 ms	0.00000	0.00000
Read	0.009 ms	300.135 ms	0.00000	0.00000
Random Read	0.004 ms	0.750 ms	0.00000	0.00000
Total	0.022 ms	400.196 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 1.9 s	42.339 MB/s	2.5 %	174.9 %
Random Write	62 MBs 2.2 s	27.979 MB/s	0.0 %	47.5 %
Read	80 MBs 0.0 s	1784.798 MB/s	62.5 %	481.9 %
Random Read	62 MBs 0.0 s	1544.049 MB/s	98.8 %	296.5 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.103 ms	255.605 ms	0.00000	0.00000
Random Write	0.021 ms	2.987 ms	0.00000	0.00000
Read	0.011 ms	33.571 ms	0.00000	0.00000
Random Read	0.008 ms	0.070 ms	0.00000	0.00000
Total	0.038 ms	255.605 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 4.9 s	32.699 MB/s	241.5 %	1825.6 %
Random Write	4 MBs 4.7 s	0.838 MB/s	6.1 %	47.7 %
Read	160 MBs 1.4 s	110.416 MB/s	340.9 %	1560.3 %
Random Read	4 MBs 0.0 s	78.960 MB/s	80.9 %	307.3 %

Tiotest latency results:

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

Write	0.070 ms	1035.734 ms	0.00000	0.00000
Random Write	0.010 ms	0.196 ms	0.00000	0.00000
Read	0.017 ms	700.263 ms	0.00000	0.00000
Random Read	0.004 ms	0.179 ms	0.00000	0.00000
Total	0.043 ms	1035.734 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	3.8 s	42.312 MB/s	4.5 %	283.3 %
Random Write 125 MBs	4.2 s	29.726 MB/s	3.7 %	91.0 %
Read 160 MBs	0.1 s	1798.238 MB/s	18.0 %	409.1 %
Random Read 125 MBs	0.1 s	1572.564 MB/s	20.1 %	367.4 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.064 ms	152.225 ms	0.00000	0.00000
Random Write	0.032 ms	174.886 ms	0.00000	0.00000
Read	0.008 ms	11.389 ms	0.00000	0.00000
Random Read	0.008 ms	0.249 ms	0.00000	0.00000
Total	0.029 ms	174.886 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:

Creating journal (32768 blocks): done

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/xfst type ext3 (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 3.9 s	25.888 MB/s	8.7 %	68.1 %
Random Write	0 MBs 1.2 s	0.197 MB/s	0.0 %	0.3 %
Read	100 MBs 1.1 s	94.188 MB/s	21.5 %	78.4 %
Random Read	0 MBs 0.0 s	62.233 MB/s	0.0 %	0.0 %

```
Tiotest latency results:
```

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.007 ms	10.484 ms	0.00000	0.00000
Random Write	0.005 ms	0.031 ms	0.00000	0.00000
Read	0.002 ms	0.671 ms	0.00000	0.00000
Random Read	0.002 ms	0.018 ms	0.00000	0.00000
Total	0.004 ms	10.484 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 2.3 s	44.325 MB/s	0.4 %	42.7 %
Random Write	8 MBs 1.3 s	6.033 MB/s	0.0 %	1.2 %
Read	100 MBs 0.1 s	1452.665 MB/s	5.8 %	93.0 %
Random Read	8 MBs 0.0 s	1221.658 MB/s	0.0 %	62.5 %

```
Tiotest latency results:
```

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.117 ms	131.649 ms	0.00000	0.00000
Random Write	0.013 ms	0.044 ms	0.00000	0.00000
Read	0.005 ms	0.099 ms	0.00000	0.00000
Random Read	0.005 ms	0.040 ms	0.00000	0.00000
Total	0.057 ms	131.649 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 3.2 s	25.050 MB/s	88.7 %	1037.9 %
Random Write	2 MBs 3.8 s	0.515 MB/s	1.9 %	19.0 %
Read	80 MBs 0.7 s	111.194 MB/s	219.1 %	943.5 %
Random Read	2 MBs 0.0 s	79.674 MB/s	97.9 %	293.7 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.047 ms	416.225 ms	0.00000	0.00000
Random Write	0.011 ms	0.539 ms	0.00000	0.00000
Read	0.011 ms	300.124 ms	0.00000	0.00000
Random Read	0.004 ms	0.033 ms	0.00000	0.00000
Total	0.028 ms	416.225 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 2.2 s	36.354 MB/s	4.7 %	416.5 %
Random Write	62 MBs 2.9 s	21.741 MB/s	1.1 %	53.9 %
Read	80 MBs 0.0 s	1762.386 MB/s	17.6 %	370.1 %
Random Read	62 MBs 0.0 s	1546.570 MB/s	39.6 %	356.4 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.348 ms	317.648 ms	0.00000	0.00000
Random Write	0.051 ms	105.847 ms	0.00000	0.00000
Read	0.008 ms	0.101 ms	0.00000	0.00000
Random Read	0.008 ms	0.051 ms	0.00000	0.00000
Total	0.113 ms	317.648 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	27.887 MB/s	152.4 %	2079.2 %
Random Write	4 MBs 6.1 s	0.638 MB/s	2.9 %	40.1 %
Read	160 MBs 1.4 s	111.113 MB/s	302.2 %	1598.2 %
Random Read	4 MBs 0.0 s	79.817 MB/s	49.0 %	343.3 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.082 ms	2068.858 ms	0.00015	0.00000
Random Write	0.009 ms	0.452 ms	0.00000	0.00000
Read	0.016 ms	700.296 ms	0.00000	0.00000
Random Read	0.004 ms	0.081 ms	0.00000	0.00000
Total	0.048 ms	2068.858 ms	0.00007	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 4.0 s	40.301 MB/s	13.0 %	738.3 %
Random Write	125 MBs 4.5 s	27.939 MB/s	2.3 %	131.8 %
Read	160 MBs 0.1 s	1798.966 MB/s	90.0 %	305.8 %
Random Read	125 MBs 0.1 s	1559.440 MB/s	20.0 %	369.3 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.515 ms	833.815 ms	0.00000	0.00000
Random Write	0.042 ms	216.457 ms	0.00000	0.00000
Read	0.008 ms	0.125 ms	0.00000	0.00000
Random Read	0.008 ms	0.207 ms	0.00000	0.00000
Total	0.157 ms	833.815 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:

Creating journal (32768 blocks): 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/xfstest type ext3 (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	3.7 s	27.129 MB/s	6.8 %	61.6 %
Random Write 0 MBs	1.2 s	0.198 MB/s	0.0 %	0.3 %
Read 100 MBs	1.1 s	93.979 MB/s	26.3 %	73.3 %
Random Read 0 MBs	0.0 s	62.392 MB/s	0.0 %	0.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.006 ms	19.708 ms	0.00000	0.00000
Random Write	0.004 ms	0.029 ms	0.00000	0.00000
Read	0.002 ms	0.746 ms	0.00000	0.00000
Random Read	0.002 ms	0.018 ms	0.00000	0.00000
Total	0.004 ms	19.708 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	2.7 s	37.219 MB/s	0.1 %	20.1 %
Random Write 8 MBs	1.3 s	6.156 MB/s	0.0 %	1.3 %
Read 100 MBs	0.1 s	1475.405 MB/s	5.9 %	88.5 %
Random Read 8 MBs	0.0 s	1233.812 MB/s	0.0 %	63.2 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.046 ms	45.425 ms	0.00000	0.00000
Random Write	0.011 ms	0.036 ms	0.00000	0.00000
Read	0.005 ms	0.052 ms	0.00000	0.00000
Random Read	0.005 ms	0.022 ms	0.00000	0.00000
Total	0.024 ms	45.425 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 3.0 s	26.486 MB/s	74.6 %	910.1 %
Random Write	2 MBs 2.7 s	0.714 MB/s	2.3 %	20.2 %
Read	80 MBs 0.7 s	110.797 MB/s	197.2 %	811.6 %
Random Read	2 MBs 0.0 s	80.382 MB/s	32.9 %	362.2 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.037 ms	328.162 ms	0.00000	0.00000
Random Write	0.009 ms	0.337 ms	0.00000	0.00000
Read	0.007 ms	292.851 ms	0.00000	0.00000
Random Read	0.004 ms	0.029 ms	0.00000	0.00000
Total	0.022 ms	328.162 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 2.1 s	37.215 MB/s	2.8 %	219.6 %
Random Write	62 MBs 2.1 s	29.791 MB/s	1.1 %	54.7 %
Read	80 MBs 0.0 s	1783.922 MB/s	35.7 %	356.8 %
Random Read	62 MBs 0.0 s	1567.123 MB/s	160.5 %	341.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.135 ms	317.480 ms	0.00000	0.00000
Random Write	0.022 ms	1.597 ms	0.00000	0.00000
Read	0.008 ms	0.121 ms	0.00000	0.00000
Random Read	0.011 ms	29.785 ms	0.00000	0.00000
Total	0.047 ms	317.480 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 5.6 s	28.530 MB/s	205.4 %	1836.1 %

Random Write	4 MBs	5.2 s	0.751 MB/s	5.6 %	43.6 %
Read	160 MBs	1.4 s	111.463 MB/s	426.9 %	1482.0 %
Random Read	4 MBs	0.0 s	80.224 MB/s	65.7 %	328.6 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.087 ms	1962.155 ms	0.00000	0.00000
Random Write	0.010 ms	0.396 ms	0.00000	0.00000
Read	0.014 ms	700.266 ms	0.00000	0.00000
Random Read	0.004 ms	0.053 ms	0.00000	0.00000
Total	0.049 ms	1962.155 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	4.2 s	37.716 MB/s	4.7 %	358.8 %
Random Write	125 MBs	4.1 s	30.629 MB/s	6.6 %	99.4 %
Read	160 MBs	0.1 s	1811.512 MB/s	54.3 %	335.2 %
Random Read	125 MBs	0.1 s	1587.382 MB/s	61.0 %	497.8 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.920 ms	2138.947 ms	0.00977	0.00000
Random Write	0.023 ms	2.538 ms	0.00000	0.00000
Read	0.007 ms	0.644 ms	0.00000	0.00000
Random Read	0.012 ms	68.647 ms	0.00000	0.00000
Total	0.268 ms	2138.947 ms	0.00274	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

Creating journal (32768 blocks): done

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/xfs type ext3 (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	3.4 s	29.567 MB/s	9.0 %	60.1 %
Random Write	0 MBs	1.3 s	0.194 MB/s	0.0 %	0.3 %
Read	100 MBs	1.1 s	94.099 MB/s	26.0 %	73.8 %
Random Read	0 MBs	0.0 s	62.745 MB/s	0.0 %	0.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.005 ms	29.376 ms	0.00000	0.00000
Random Write	0.004 ms	0.033 ms	0.00000	0.00000
Read	0.002 ms	0.077 ms	0.00000	0.00000
Random Read	0.002 ms	0.017 ms	0.00000	0.00000
Total	0.003 ms	29.376 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	2.5 s	40.214 MB/s	0.8 %	15.4 %
Random Write	8 MBs	1.2 s	6.342 MB/s	0.0 %	1.0 %
Read	100 MBs	0.1 s	1481.065 MB/s	23.7 %	71.1 %
Random Read	8 MBs	0.0 s	1240.276 MB/s	0.0 %	63.5 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.029 ms	0.425 ms	0.00000	0.00000
Random Write	0.009 ms	0.036 ms	0.00000	0.00000
Read	0.005 ms	0.063 ms	0.00000	0.00000
Random Read	0.005 ms	0.024 ms	0.00000	0.00000

Total	0.016 ms	0.425 ms	0.00000	0.00000
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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	2.9 s	27.871 MB/s	80.8 %	852.5 %
Random Write	2 MBs	2.4 s	0.808 MB/s	5.0 %	22.8 %
Read	80 MBs	0.7 s	110.428 MB/s	148.0 %	859.7 %
Random Read	2 MBs	0.0 s	79.954 MB/s	65.5 %	327.5 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.035 ms	428.216 ms	0.00000	0.00000
Random Write	0.014 ms	34.292 ms	0.00000	0.00000
Read	0.010 ms	300.126 ms	0.00000	0.00000
Random Read	0.004 ms	0.063 ms	0.00000	0.00000
Total	0.022 ms	428.216 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	42.617 MB/s	3.6 %	171.8 %
Random Write	62 MBs	2.3 s	27.683 MB/s	1.9 %	42.7 %
Read	80 MBs	0.0 s	1785.356 MB/s	116.1 %	410.7 %
Random Read	62 MBs	0.0 s	1555.926 MB/s	59.7 %	298.8 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.079 ms	143.687 ms	0.00000	0.00000
Random Write	0.020 ms	1.954 ms	0.00000	0.00000
Read	0.011 ms	33.437 ms	0.00000	0.00000
Random Read	0.008 ms	0.750 ms	0.00000	0.00000
Total	0.031 ms	143.687 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	31.654 MB/s	198.1 %
Random Write	4 MBs	4.4 s	0.879 MB/s	10.6 %
Read	160 MBs	1.4 s	110.792 MB/s	352.1 %
Random Read	4 MBs	0.0 s	78.951 MB/s	113.2 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.065 ms	1163.307 ms	0.00000	0.00000
Random Write	0.009 ms	0.727 ms	0.00000	0.00000
Read	0.017 ms	700.259 ms	0.00000	0.00000
Random Read	0.004 ms	0.970 ms	0.00000	0.00000
Total	0.040 ms	1163.307 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	3.7 s	43.326 MB/s	3.9 %
Random Write	125 MBs	4.1 s	30.370 MB/s	6.7 %
Read	160 MBs	0.1 s	1819.112 MB/s	59.1 %
Random Read	125 MBs	0.1 s	1573.515 MB/s	70.5 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.085 ms	232.974 ms	0.00000	0.00000
Random Write	0.020 ms	1.662 ms	0.00000	0.00000
Read	0.008 ms	11.659 ms	0.00000	0.00000
Random Read	0.007 ms	0.069 ms	0.00000	0.00000
Total	0.032 ms	232.974 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:

Creating journal (32768 blocks): 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/xfs type ext3 (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	4.0 s	25.112 MB/s	6.7 %	68.4 %
Random Write 0 MBs	1.3 s	0.187 MB/s	0.0 %	0.3 %
Read 100 MBs	1.1 s	94.234 MB/s	27.9 %	72.0 %
Random Read 0 MBs	0.0 s	61.265 MB/s	0.0 %	0.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.007 ms	41.755 ms	0.00000	0.00000
Random Write	0.005 ms	0.033 ms	0.00000	0.00000
Read	0.002 ms	0.746 ms	0.00000	0.00000
Random Read	0.002 ms	0.019 ms	0.00000	0.00000
Total	0.005 ms	41.755 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	2.2 s	44.634 MB/s	1.1 %	44.5 %
Random Write 8 MBs	1.2 s	6.317 MB/s	0.0 %	1.3 %
Read 100 MBs	0.1 s	1397.526 MB/s	0.0 %	95.0 %
Random Read 8 MBs	0.0 s	1222.613 MB/s	0.0 %	62.6 %

Tiotest latency results:

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

Write	0.107 ms	74.792 ms	0.00000	0.00000
Random Write	0.013 ms	0.040 ms	0.00000	0.00000
Read	0.005 ms	0.050 ms	0.00000	0.00000
Random Read	0.005 ms	0.026 ms	0.00000	0.00000
Total	0.053 ms	74.792 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	3.2 s	25.293 MB/s	79.3 %	994.7 %
Random Write 2 MBs	3.7 s	0.535 MB/s	1.5 %	17.2 %
Read 80 MBs	0.7 s	110.507 MB/s	227.1 %	934.9 %
Random Read 2 MBs	0.0 s	80.184 MB/s	131.4 %	295.6 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.042 ms	487.003 ms	0.00000	0.00000
Random Write	0.010 ms	0.454 ms	0.00000	0.00000
Read	0.009 ms	300.135 ms	0.00000	0.00000
Random Read	0.004 ms	0.028 ms	0.00000	0.00000
Total	0.025 ms	487.003 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	2.3 s	35.135 MB/s	2.1 %	402.5 %
Random Write 62 MBs	2.3 s	27.712 MB/s	4.1 %	62.6 %
Read 80 MBs	0.0 s	1772.029 MB/s	53.2 %	336.7 %
Random Read 62 MBs	0.0 s	1547.183 MB/s	39.6 %	356.5 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.388 ms	408.310 ms	0.00000	0.00000
Random Write	0.027 ms	0.262 ms	0.00000	0.00000
Read	0.008 ms	0.086 ms	0.00000	0.00000
Random Read	0.008 ms	0.116 ms	0.00000	0.00000
Total	0.119 ms	408.310 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 5.8 s	27.369 MB/s	198.9 %	2176.8 %
Random Write	4 MBs 5.8 s	0.669 MB/s	5.6 %	43.6 %
Read	160 MBs 1.4 s	110.872 MB/s	370.6 %	1531.2 %
Random Read	4 MBs 0.0 s	80.118 MB/s	98.5 %	311.8 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.105 ms	1156.513 ms	0.00000	0.00000
Random Write	0.017 ms	108.845 ms	0.00000	0.00000
Read	0.014 ms	708.670 ms	0.00000	0.00000
Random Read	0.004 ms	0.035 ms	0.00000	0.00000
Total	0.058 ms	1156.513 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 4.4 s	36.448 MB/s	4.5 %	777.2 %
Random Write	125 MBs 5.0 s	25.190 MB/s	1.5 %	111.0 %
Read	160 MBs 0.1 s	1814.285 MB/s	72.6 %	421.8 %
Random Read	125 MBs 0.1 s	1571.260 MB/s	30.2 %	528.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	1.752 ms	1580.032 ms	0.00000	0.00000
Random Write	0.028 ms	2.438 ms	0.00000	0.00000
Read	0.009 ms	22.638 ms	0.00000	0.00000
Random Read	0.012 ms	69.494 ms	0.00000	0.00000
Total	0.503 ms	1580.032 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:

Creating journal (32768 blocks): done

Writing superblocks and filesystem accounting information: done

This filesystem will be automatically checked every 29 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 ext3 (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	3.8 s	26.597 MB/s	7.3 %	60.1 %
Random Write 0 MBs	1.3 s	0.195 MB/s	0.0 %	0.3 %
Read 100 MBs	1.1 s	94.064 MB/s	25.2 %	74.5 %
Random Read 0 MBs	0.0 s	62.043 MB/s	0.0 %	0.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.006 ms	12.826 ms	0.00000	0.00000
Random Write	0.004 ms	0.031 ms	0.00000	0.00000
Read	0.002 ms	0.775 ms	0.00000	0.00000
Random Read	0.002 ms	0.019 ms	0.00000	0.00000
Total	0.004 ms	12.826 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	2.8 s	35.738 MB/s	0.1 %	18.3 %
Random Write 8 MBs	1.3 s	6.009 MB/s	0.0 %	0.9 %
Read 100 MBs	0.1 s	1468.537 MB/s	0.0 %	99.9 %
Random Read 8 MBs	0.0 s	1221.085 MB/s	0.0 %	62.5 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.046 ms	40.319 ms	0.00000	0.00000
Random Write	0.011 ms	0.035 ms	0.00000	0.00000
Read	0.005 ms	0.053 ms	0.00000	0.00000
Random Read	0.005 ms	0.022 ms	0.00000	0.00000
Total	0.024 ms	40.319 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 3.2 s	25.264 MB/s	80.5 %	778.7 %
Random Write	2 MBs 2.8 s	0.706 MB/s	0.6 %	21.3 %
Read	80 MBs 0.7 s	110.746 MB/s	203.2 %	958.6 %
Random Read	2 MBs 0.0 s	79.357 MB/s	97.5 %	292.6 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.038 ms	796.601 ms	0.00000	0.00000
Random Write	0.009 ms	0.735 ms	0.00000	0.00000
Read	0.010 ms	300.145 ms	0.00000	0.00000
Random Read	0.004 ms	0.122 ms	0.00000	0.00000
Total	0.024 ms	796.601 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 2.1 s	38.187 MB/s	4.6 %	218.4 %
Random Write	62 MBs 2.0 s	31.904 MB/s	1.4 %	57.0 %
Read	80 MBs 0.0 s	1761.106 MB/s	52.8 %	334.6 %
Random Read	62 MBs 0.0 s	1545.194 MB/s	39.6 %	356.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.175 ms	417.911 ms	0.00000	0.00000
Random Write	0.022 ms	0.226 ms	0.00000	0.00000
Read	0.008 ms	0.502 ms	0.00000	0.00000
Random Read	0.008 ms	0.066 ms	0.00000	0.00000

Total	0.058 ms	417.911 ms	0.00000	0.00000
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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	27.854 MB/s	163.1 %	1808.3 %
Random Write	4 MBs	5.7 s	0.682 MB/s	4.7 %	33.8 %
Read	160 MBs	1.4 s	111.144 MB/s	355.4 %	1533.0 %
Random Read	4 MBs	0.0 s	79.640 MB/s	114.2 %	285.4 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.073 ms	2202.279 ms	0.00015	0.00000
Random Write	0.010 ms	1.253 ms	0.00000	0.00000
Read	0.015 ms	700.235 ms	0.00000	0.00000
Random Read	0.004 ms	0.040 ms	0.00000	0.00000
Total	0.043 ms	2202.279 ms	0.00007	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	4.0 s	40.455 MB/s	15.2 %	503.2 %
Random Write	125 MBs	4.2 s	29.783 MB/s	6.5 %	95.9 %
Read	160 MBs	0.1 s	1808.175 MB/s	40.7 %	370.7 %
Random Read	125 MBs	0.1 s	1571.912 MB/s	40.2 %	352.1 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.847 ms	994.991 ms	0.00000	0.00000
Random Write	0.023 ms	2.012 ms	0.00000	0.00000
Read	0.008 ms	10.751 ms	0.00000	0.00000
Random Read	0.007 ms	0.196 ms	0.00000	0.00000
Total	0.247 ms	994.991 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 30 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 ext3 (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	3.4 s	29.848 MB/s	8.0 %	59.7 %
Random Write 0 MBs	1.2 s	0.196 MB/s	0.0 %	0.3 %
Read 100 MBs	1.1 s	93.733 MB/s	28.1 %	71.6 %
Random Read 0 MBs	0.0 s	62.520 MB/s	0.0 %	0.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.005 ms	8.209 ms	0.00000	0.00000
Random Write	0.004 ms	0.025 ms	0.00000	0.00000
Read	0.002 ms	0.080 ms	0.00000	0.00000
Random Read	0.002 ms	0.018 ms	0.00000	0.00000
Total	0.003 ms	8.209 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	2.4 s	41.959 MB/s	0.5 %	16.1 %
Random Write 8 MBs	1.3 s	6.085 MB/s	0.0 %	0.9 %

```
| Read          100 MBs | 0.1 s | 1470.783 MB/s | 11.8 % | 82.4 % |
| Random Read   8 MBs  | 0.0 s | 1231.479 MB/s | 0.0 %  | 63.1 % |
```

Tiotest latency results:

```
-----
| Item          | Average latency | Maximum latency | % >2 sec | % >10 sec |
+-----+-----+-----+-----+-----+
| Write         | 0.028 ms       | 0.381 ms       | 0.00000  | 0.00000  |
| Random Write  | 0.009 ms       | 0.037 ms       | 0.00000  | 0.00000  |
| Read         | 0.005 ms       | 0.053 ms       | 0.00000  | 0.00000  |
| Random Read  | 0.005 ms       | 0.027 ms       | 0.00000  | 0.00000  |
+-----+-----+-----+-----+-----+
| Total        | 0.016 ms       | 0.381 ms       | 0.00000  | 0.00000  |
-----
```

Starting multi-thread throughput test ...

```
=====
Issue command: tiotest -d /mnt/xfp -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        | 28.323 MB/s | 113.6 % | 816.0 % |
| Random Write  | 2 MBs        | 2.6 s        | 0.764 MB/s  | 1.1 %   | 26.4 %  |
| Read         | 80 MBs       | 0.7 s        | 111.221 MB/s | 270.8 % | 893.7 % |
| Random Read  | 2 MBs        | 0.0 s        | 79.405 MB/s  | 65.1 %  | 325.3 % |
+-----+-----+-----+-----+-----+
```

Tiotest latency results:

```
-----
| Item          | Average latency | Maximum latency | % >2 sec | % >10 sec |
+-----+-----+-----+-----+-----+
| Write         | 0.032 ms       | 500.225 ms    | 0.00000  | 0.00000  |
| Random Write  | 0.010 ms       | 0.178 ms      | 0.00000  | 0.00000  |
| Read         | 0.008 ms       | 300.156 ms    | 0.00000  | 0.00000  |
| Random Read  | 0.004 ms       | 0.105 ms      | 0.00000  | 0.00000  |
+-----+-----+-----+-----+-----+
| Total        | 0.019 ms       | 500.225 ms    | 0.00000  | 0.00000  |
-----
```

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

```
-----
| Item          | Time          | Rate          | Usr CPU | Sys CPU |
+-----+-----+-----+-----+-----+
| Write         | 80 MBs       | 1.8 s        | 43.956 MB/s | 5.1 %   | 166.8 % |
| Random Write  | 62 MBs       | 2.0 s        | 30.491 MB/s | 2.0 %   | 46.6 %  |
| Read         | 80 MBs       | 0.0 s        | 1778.568 MB/s | 35.6 %  | 355.7 % |
| Random Read  | 62 MBs       | 0.0 s        | 1543.210 MB/s | 79.0 %  | 316.1 % |
+-----+-----+-----+-----+-----+
```

Tiotest latency results:

```
-----
| Item          | Average latency | Maximum latency | % >2 sec | % >10 sec |
+-----+-----+-----+-----+-----+
| Write         | 0.052 ms       | 28.188 ms     | 0.00000  | 0.00000  |
+-----+-----+-----+-----+-----+
```

Random Write	0.020 ms	0.223 ms	0.00000	0.00000
Read	0.008 ms	0.087 ms	0.00000	0.00000
Random Read	0.008 ms	0.168 ms	0.00000	0.00000
Total	0.023 ms	28.188 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	4.9 s	32.672 MB/s	218.1 %	1913.1 %
Random Write 4 MBs	4.8 s	0.821 MB/s	2.9 %	44.4 %
Read 160 MBs	1.4 s	110.920 MB/s	396.6 %	1498.3 %
Random Read 4 MBs	0.0 s	80.123 MB/s	32.8 %	361.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.063 ms	1160.557 ms	0.00000	0.00000
Random Write	0.010 ms	0.230 ms	0.00000	0.00000
Read	0.016 ms	700.297 ms	0.00000	0.00000
Random Read	0.004 ms	0.058 ms	0.00000	0.00000
Total	0.039 ms	1160.557 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	3.7 s	43.124 MB/s	3.3 %	301.7 %
Random Write 125 MBs	4.1 s	30.670 MB/s	6.4 %	76.7 %
Read 160 MBs	0.1 s	1812.128 MB/s	63.4 %	321.7 %
Random Read 125 MBs	0.1 s	1571.438 MB/s	40.2 %	352.0 %

Tiotest latency results:

Item	Average latency	Maximum latency	% >2 sec	% >10 sec
Write	0.089 ms	186.027 ms	0.00000	0.00000
Random Write	0.019 ms	1.098 ms	0.00000	0.00000
Read	0.007 ms	1.089 ms	0.00000	0.00000
Random Read	0.008 ms	0.104 ms	0.00000	0.00000
Total	0.033 ms	186.027 ms	0.00000	0.00000