

FreeBSD 5.3 I/O Performance / Linux 2.6.10 | More Info

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/questions/2005-01/3105.html>

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Date: 01/23/05

Date: Sat, 22 Jan 2005 16:48:20 -0700

To: freebsd-questions@freebsd.org

I apologize if this has been posted twice.

All,

This post is not about BSD VS. Linux and should not be taken that way. I think that "Flame Wars/Engineer Wars" are waste of time and energy. I was surprised by my test results and didn't want to take FreeBSD out of the loop just yet. There may be flaws in my testing that have led me to inaccurate results. I didn't share the testing details in the original mail because of time constraints, and the notes are fairly lengthy. I will add my notes to this mail so that there is a better understanding of what tests I performed, and their results. It's important to note that I did not tweak any of the default settings of the OS or DB. The notes should be generally self explanatory, but will be more that happy to clarify any questions that you have. As a side note, I chose the email address linicks because by name is Nick, and thought it was a fun play on words. I appreciate all of your feedback, so that I can better understand the differences in these great operating systems and communities.

Thanks Again!

--Nick Pavlica

"OK, The testing notes already" :)

Hardware Configs:

Dell PE 2400

- Dual PIII 500Mhz
- 512Mb Ram
- Perc 2si controller
- (2) 10k ultra160 drives in a raid 1 configuration.

Dell SC400

- P4 2.4 Ghz (not hyperthreaded)
- 512Mb Ram
- Stock 40Gb IDE 7200RPM

Postgresql Test Scripts:

```
CREATE TABLE test1 (
  thedate TIMESTAMP,
  astring VARCHAR(200),
  anumber INTEGER
);
```

```
CREATE FUNCTION build_data() RETURNS integer AS '
DECLARE
  i INTEGER DEFAULT 0;
  curtime TIMESTAMP;
BEGIN
  FOR i IN 1..1000000 LOOP
    curtime := "now";
    INSERT INTO test1 VALUES (curtime, "test string", i);
  END LOOP;
  RETURN 1;
END;
' LANGUAGE 'plpgsql';
```

```
SELECT build_data();
```

Then the following script is run under the time program to ascertain how long it takes to run:

```
CREATE TABLE test2 (
  thedate TIMESTAMP,
  astring VARCHAR(200),
  anumber INTEGER
);
CREATE TABLE test3 AS SELECT * FROM test1;
INSERT INTO test2 SELECT * FROM test1 WHERE ((anumber % 2) = 0);
DELETE FROM test3 WHERE ((anumber % 2) = 0);
DELETE FROM test3 WHERE ((anumber % 13) = 0);
CREATE TABLE test4 AS
SELECT test1.thedate AS t1date,
       test2.thedate AS t2date,
       test1.astring AS t1string,
       test2.astring AS t2string,
       test1.anumber AS t1number,
       test2.anumber AS t2number
FROM test1 JOIN test2 ON test1.anumber=test2.anumber;
UPDATE test3 SET thedate='now' WHERE ((anumber % 5) = 0);
DROP TABLE test4;
CREATE TABLE test4 AS SELECT * FROM test1;
DELETE FROM test4 WHERE ((anumber % 27) = 0);
VACUUM ANALYZE;
VACUUM FULL;
DROP TABLE test4;
DROP TABLE test3;
```

```
DROP TABLE test2;
VACUUM FULL;
```

sc400 freeBSD5:

```
$ time dd bs=1024 if=/dev/zero of=tstfile count=1M
1048576+0 records in
1048576+0 records out
1073741824 bytes transferred in 71.807645 secs (14953029 bytes/sec)
71.82real 0.68 user 8.83 sys
71.82 / 60 = 1.197
```

```
--
517 nick.pavlica -16 0 1212K 588K wdrain 0:02 12.35% 5.91% dd
517 nick.pavlica -16 0 1212K 588K wdrain 0:13 12.48% 12.35% dd
$ time dd bs=1024 if=/dev/zero of=tstfile count=2M
2097152+0 records in
2097152+0 records out
2147483648 bytes transferred in 136.815925 secs (15696153 bytes/sec)
136.85 real 1.29 user 17.49 sys
136.85 / 60 = 2.280833333
```

```
--
542 nick.pavlica -16 0 1212K 588K wdrain 0:19 13.35% 13.33% dd
542 nick.pavlica -16 0 1212K 588K wdrain 0:24 12.99% 12.99% dd
$ time dd bs=1024 if=/dev/zero of=tstfile count=3M
3145728+0 records in
3145728+0 records out
3221225472 bytes transferred in 205.722425 secs (15658115 bytes/sec)
205.72 real 1.82 user 27.39 sys
205.72 / 60 = 3.428666667
```

```
copy test:
558 nick.pavlica -4 0 1272K 680K getblk 0:01 2.30% 1.32% cp
558 nick.pavlica -4 0 1272K 680K getblk 0:02 1.80% 1.71% cp
558 nick.pavlica -4 0 1272K 680K getblk 0:03 1.87% 1.86% cp
$ time cp tstfile tstfile2
579.31 real 0.03 user 14.61 sys
579.31 / 60 = 9.655166667
```

(FreeBSD 5.3+ on SC400)

b test 1:

```
535 nick.pavlica -4 0 2380K 1216K getblk 0:17 2.84% 2.83% bonnie++
568 nick.pavlica 105 0 2380K 1196K RUN 0:09 92.99% 36.62% bonnie++
568 nick.pavlica -16 0 2380K 1192K wdrain 0:14 12.35% 11.23% bonnie++
```

```
$ bonnie++ -s 1024 -r 512 -n 5
Writing a byte at a time...done
Writing intelligently...done
Rewriting...done
Reading a byte at a time...done
Reading intelligently...done
start 'em...done...done...done...done...done...
Create files in sequential order...done.
Stat files in sequential order...done.
Delete files in sequential order...done.
Create files in random order...done.
Stat files in random order...done.
Delete files in random order...done.
```

Version	1.93c	-----Sequential Output-----	--Sequential Input--	--Random--									
Concurrency	1	-Per Chr-	--Block--	-Rewrite-	-Per Chr-	--Block--	--Seeks--						
Machine	Size	K/sec	%CP	K/sec	%CP	K/sec	%CP	K/sec	%CP	/sec	%CP		
sc400.e--station	1G	257	99	15135	5	10033	3	508	99	45572	10	124.3	5
Latency		33802us		161ms		467ms		32560us		17190us		537ms	


```
(PG Performance Test)
2039 pgsq1      -4      0 16328K 11984K getblk   0:04 19.92% 12.60% postgres
2039 pgsq1      -8      0 16344K 12024K biord    0:11 18.51% 17.14% postgres
$ time psql -d perftst -f ptst.sql
CREATE TABLE
SELECT
INSERT 0 500000
DELETE 500000
DELETE 38462
SELECT
UPDATE 92308
DROP TABLE
SELECT
DELETE 37037
VACUUM
VACUUM
DROP TABLE
DROP TABLE
DROP TABLE
VACUUM
      304.00 real          0.00 user          0.00 sys
304.00/60 = 5.066666667
2077 pgsq1      -8      0 28168K 15640K biord    0:38 12.01% 12.01% postgres
2077 pgsq1      -4      0 28168K 15812K semwai   0:40 10.16% 10.16% postgres
$ time psql -d perftst -f ptst.sql
CREATE TABLE
SELECT
INSERT 0 500000
DELETE 500000
DELETE 38462
SELECT
UPDATE 92308
DROP TABLE
SELECT
DELETE 37037
VACUUM
VACUUM
DROP TABLE
DROP TABLE
DROP TABLE
VACUUM
      307.97 real          0.00 user          0.00 sys
307.97/60=5.132833333
2113 pgsq1      -4      0 19960K 15296K ufs       0:30 15.97% 15.97% postgres
2113 pgsq1     -16      0 28168K 19280K wdtrain   0:37 12.70% 12.70% postgres
$ time psql -d perftst -f ptst.sql
CREATE TABLE
SELECT
INSERT 0 500000
DELETE 500000
DELETE 38462
SELECT
UPDATE 92308
DROP TABLE
SELECT
DELETE 37037
VACUUM
VACUUM
DROP TABLE
DROP TABLE
DROP TABLE
VACUUM
```

freebsd-questions: FreeBSD 5.3 I/O Performance / Linux 2.6.10 | More Info

```

304.89 real          0.00 user          0.00 sys
304.89/60=5.0815

```

Fedora C3 EXT3

```

[root@localhost ~]# time dd bs=1024 if=/dev/zero of=tstfile count=1M
1048576+0 records in
1048576+0 records out
real    0m24.270s
user    0m0.736s
sys     0m5.528s

```

```

[root@localhost ~]# time dd bs=1024 if=/dev/zero of=tstfile count=2M
2097152+0 records in
2097152+0 records out
real    0m53.607s
user    0m1.432s
sys     0m11.306s

```

```

[root@localhost ~]# time dd bs=1024 if=/dev/zero of=tstfile count=3M
3145728+0 records in
3145728+0 records out
real    1m16.598s
user    0m2.133s
sys     0m16.794s

```

Copy Test:

```

[root@localhost ~]# time cp tstfile tstfile2
real    2m32.022s
user    0m0.528s
sys     0m12.417s

```

Bonnie Tests:

```

bonnie++ -u root -s 1024 -r 512 -n 5 -d /tmp
Using uid:0, gid:0.

```

```

Writing with putc()...done
Writing intelligently...done
Rewriting...done
Reading with getc()...done
Reading intelligently...done
start 'em...done...done...done...
Create files in sequential order...done.
Stat files in sequential order...done.
Delete files in sequential order...done.
Create files in random order...done.
Stat files in random order...done.
Delete files in random order...done.

```

Version	1.03	-----Sequential Output-----			--Sequential Input--			--Random--					
Machine	Size	K/sec	%CP	K/sec	%CP	K/sec	%CP	K/sec	%CP	/sec	%CP		
localhost.locald	1G	24983	72	49013	14	21798	5	21618	58	52864	6	137.5	0
		-----Sequential Create-----			-----Random Create-----								
		-Create--	--Read---	-Delete--	-Create--	--Read---	-Delete--						
		files	/sec	%CP	/sec	%CP	/sec	%CP	/sec	%CP	/sec	%CP	
		5	+++++	+++	+++++	+++	+++++	+++	+++++	+++	+++++	+++	

```

localhost.localdomain,1G,24983,72,49013,14,21798,5,21618,58,52864,6,137.5,0,5,+++++,+++ ,+++++,++++

```

```

bonnie++ -u root -s 2048 -r 512 -n 5 -d /tmp
Using uid:0, gid:0.

```

```

Writing with putc()...done
Writing intelligently...done
Rewriting...done
Reading with getc()...done
Reading intelligently...done
start 'em...done...done...done...
Create files in sequential order...done.
Stat files in sequential order...done.
Delete files in sequential order...done.

```



```

INSERT 0 500000
DELETE 500000
DELETE 38462
SELECT
UPDATE 92308
DROP TABLE
SELECT
DELETE 37037
VACUUM
VACUUM
DROP TABLE
DROP TABLE
DROP TABLE
VACUUM
real    2m59.877s
user    0m0.004s
sys     0m0.007s
26307 postgres 18    0 21684 14m 11m R  8.0  5.7  0:39.30 postmaster
26307 postgres 18    0 21684 14m 11m R 20.3  5.7  0:43.37 postmaster
bash-3.00$ time psql -d perftst -f tst1.sql
CREATE TABLE
SELECT
INSERT 0 500000
DELETE 500000
DELETE 38462
SELECT
UPDATE 92308
DROP TABLE
SELECT
DELETE 37037
VACUUM
VACUUM
DROP TABLE
DROP TABLE
DROP TABLE
VACUUM
real    2m29.036s
user    0m0.002s
sys     0m0.012s
26317 postgres 18    0 20472 10m 9.8m D 45.3  4.3  0:10.53 postmaster
26317 postgres 18    0 22500 12m 9.9m D 28.3  5.1  0:24.92 postmaster
26317 postgres 18    0 25580 16m 11m R 28.3  6.6  0:42.54 postmaster
bash-3.00$ time psql -d perftst -f tst1.sql
CREATE TABLE
SELECT
INSERT 0 500000
DELETE 500000
DELETE 38462
SELECT
UPDATE 92308
DROP TABLE
SELECT
DELETE 37037
VACUUM
VACUUM
DROP TABLE
DROP TABLE
DROP TABLE
VACUUM
real    2m30.825s
user    0m0.001s
sys     0m0.009s

```

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```
26323 postgres 18 0 20448 10m 10m R 46.9 4.4 0:36.98 postmaster
26323 postgres 16 0 31100 21m 10m R 48.9 8.6 3:41.24 postmaster
26323 postgres 16 0 29088 19m 10m R 26.6 7.9 5:19.27 postmaster
```

```
bash-3.00$ time psql -d perftst -f tst1.sql
```

```
CREATE TABLE
SELECT
INSERT 0 3000000
DELETE 3000000
DELETE 230772
SELECT
UPDATE 553848
DROP TABLE
SELECT
DELETE 222222
VACUUM
VACUUM
DROP TABLE
DROP TABLE
DROP TABLE
VACUUM
```

```
real    24m55.547s
user    0m0.008s
sys     0m0.005s
```

```
bash-3.00$ time psql -d perftst -f tst.sql
```

```

    thedate          |   astring   |  anumber
-----+-----+-----
2005-01-20 22:26:39.057576 | test string | 894455
2005-01-20 22:44:37.486004 | test string | 894455
2005-01-20 22:45:12.67617  | test string | 894455
2005-01-20 22:47:07.218733 | test string | 894455
2005-01-20 22:48:31.5945   | test string | 894455
2005-01-20 22:50:42.391373 | test string | 894455
(6 rows)

    thedate          |   astring   |  anumber
-----+-----+-----
2005-01-20 22:26:39.057576 | test string | 75455
2005-01-20 22:44:37.486004 | test string | 75455
2005-01-20 22:45:12.67617  | test string | 75455
2005-01-20 22:47:07.218733 | test string | 75455
2005-01-20 22:48:31.5945   | test string | 75455
2005-01-20 22:50:42.391373 | test string | 75455
(6 rows)

    thedate          |   astring   |  anumber
-----+-----+-----
2005-01-20 22:26:39.057576 | test string | 444455
2005-01-20 22:44:37.486004 | test string | 444455
2005-01-20 22:45:12.67617  | test string | 444455
2005-01-20 22:47:07.218733 | test string | 444455
2005-01-20 22:48:31.5945   | test string | 444455
2005-01-20 22:50:42.391373 | test string | 444455
(6 rows)
thedata | astring | anumber
-----+-----+-----
(0 rows)
thedata | astring | anumber
-----+-----+-----
(0 rows)

    thedate          |   astring   |  anumber
-----+-----+-----
2005-01-20 22:26:39.057576 | test string | 7555
2005-01-20 22:44:37.486004 | test string | 7555
2005-01-20 22:45:12.67617  | test string | 7555
```

freebsd-questions: FreeBSD 5.3 I/O Performance / Linux 2.6.10 | More Info

```
2005-01-20 22:47:07.218733 | test string | 7555
2005-01-20 22:48:31.5945 | test string | 7555
2005-01-20 22:50:42.391373 | test string | 7555
```

(6 rows)

```

thedata | astring | anumber
-----+-----+-----
2005-01-20 22:26:39.057576 | test string | 5
2005-01-20 22:44:37.486004 | test string | 5
2005-01-20 22:45:12.67617 | test string | 5
2005-01-20 22:47:07.218733 | test string | 5
2005-01-20 22:48:31.5945 | test string | 5
2005-01-20 22:50:42.391373 | test string | 5
```

(6 rows)

```

thedata | astring | anumber
-----+-----+-----
2005-01-20 22:26:39.057576 | test string | 4455
2005-01-20 22:44:37.486004 | test string | 4455
2005-01-20 22:45:12.67617 | test string | 4455
2005-01-20 22:47:07.218733 | test string | 4455
2005-01-20 22:48:31.5945 | test string | 4455
2005-01-20 22:50:42.391373 | test string | 4455
```

(6 rows)

```

thedata | astring | anumber
-----+-----+-----
2005-01-20 22:26:39.057576 | test string | 111155
2005-01-20 22:44:37.486004 | test string | 111155
2005-01-20 22:45:12.67617 | test string | 111155
2005-01-20 22:47:07.218733 | test string | 111155
2005-01-20 22:48:31.5945 | test string | 111155
2005-01-20 22:50:42.391373 | test string | 111155
```

(6 rows)

```

thedata | astring | anumber
-----+-----+-----
2005-01-20 22:26:39.057576 | test string | 33355
2005-01-20 22:44:37.486004 | test string | 33355
2005-01-20 22:45:12.67617 | test string | 33355
2005-01-20 22:47:07.218733 | test string | 33355
2005-01-20 22:48:31.5945 | test string | 33355
2005-01-20 22:50:42.391373 | test string | 33355
```

(6 rows)

```

thedata | astring | anumber
-----+-----+-----
2005-01-20 22:26:39.057576 | test string | 998455
2005-01-20 22:44:37.486004 | test string | 998455
2005-01-20 22:45:12.67617 | test string | 998455
2005-01-20 22:47:07.218733 | test string | 998455
2005-01-20 22:48:31.5945 | test string | 998455
2005-01-20 22:50:42.391373 | test string | 998455
```

(6 rows)

```

thedata | astring | anumber
-----+-----+-----
2005-01-20 22:26:39.057576 | test string | 8455
2005-01-20 22:44:37.486004 | test string | 8455
2005-01-20 22:45:12.67617 | test string | 8455
2005-01-20 22:47:07.218733 | test string | 8455
2005-01-20 22:48:31.5945 | test string | 8455
2005-01-20 22:50:42.391373 | test string | 8455
```

(6 rows)

```
thedata | astring | anumber
-----+-----+-----
```

(0 rows)

```
real 3m13.732s
```

freebsd-questions: FreeBSD 5.3 I/O Performance / Linux 2.6.10 | More Info

```
user    0m0.005s
sys     0m0.004s
```

SC400 FC3 With XFS:

```
4665 root    18    0  4380  468  404 D 21.6  0.2   0:02.43 dd
[root@localhost tmp]# time dd bs=1024 if=/dev/zero of=tstfile count=1M
1048576+0 records in
1048576+0 records out
real    0m22.676s
user    0m0.663s
sys     0m3.494s
```

```
4667 root    19    0  3672  468  404 R  8.7  0.2   0:00.26 dd
[root@localhost tmp]# time dd bs=1024 if=/dev/zero of=tstfile count=2M
2097152+0 records in
2097152+0 records out
real    0m46.277s
user    0m1.214s
sys     0m7.141s
```

```
4674 root    25    0  4532  468  404 R 13.6  0.2   0:02.34 dd
4674 root    18    0  4532  468  404 D 17.6  0.2   0:05.52 dd
[root@localhost tmp]# time dd bs=1024 if=/dev/zero of=tstfile count=3M
3145728+0 records in
3145728+0 records out
real    1m12.727s
user    0m1.884s
sys     0m10.573s
```

copy tests:

```
4744 root    18    0  3940  620  540 D  9.3  0.2   0:00.73 cp
4744 root    18    0  3940  620  540 R  9.3  0.2   0:01.78 cp
4744 root    18    0  3940  620  540 R  4.0  0.2   0:06.62 cp
```

```
[root@localhost tmp]# time cp tstfile tstfile2
real    2m22.101s
user    0m0.500s
sys     0m8.178s
```

bonnie tests:

```
[root@localhost tmp]# bonnie++ -u root -s 1024 -r 512 -n 5 -d /tmp
Using uid:0, gid:0.
```

```
Writing with putc()...done
Writing intelligently...done
Rewriting...done
Reading with getc()...done
Reading intelligently...done
start 'em...done...done...done...
Create files in sequential order...done.
Stat files in sequential order...done.
Delete files in sequential order...done.
Create files in random order...done.
Stat files in random order...done.
Delete files in random order...done.
```

```
Version 1.03      -----Sequential Output----- --Sequential Input- --Random-
-Per Chr- --Block-- -Rewrite- -Per Chr- --Block-- --Seeks--
Machine          Size K/sec %CP K/sec %CP K/sec %CP K/sec %CP K/sec %CP /sec %CP
localhost.locald 1G 33376 97 48548 7 20451 4 25233 69 47488 5 154.7 0
-----Sequential Create----- -----Random Create-----
-Create-- --Read--- -Delete-- -Create-- --Read--- -Delete--
files /sec %CP /sec %CP /sec %CP /sec %CP /sec %CP /sec %CP /sec %CP
5 3724 17 +++++ +++ 3828 17 2957 14 +++++ +++ 2290 10
```

```
localhost.localdomain,1G,33376,97,48548,7,20451,4,25233,69,47488,5,154.7,0,5,3724,17,+++++,+++,38
4747 root    23    0  3004  976  840 R 88.9  0.4   1:56.32 bonnie++
4747 root    18    0  2996  968  840 R  7.0  0.4   2:09.53 bonnie++
4751 root    17    0  2996  980  844 D  0.3  0.4   0:00.02 bonnie++
[root@localhost tmp]# bonnie++ -u root -s 2048 -r 512 -n 5 -d /tmp
```

```

Using uid:0, gid:0.
Writing with putc()...done
Writing intelligently...done
Rewriting...done
Reading with getc()...done
Reading intelligently...done
start 'em...done...done...done...
Create files in sequential order...done.
Stat files in sequential order...done.
Delete files in sequential order...done.
Create files in random order...done.
Stat files in random order...done.
Delete files in random order...done.
Version 1.03      -----Sequential Output----- --Sequential Input- --Random-
                  -Per Chr- --Block-- -Rewrite- -Per Chr- --Block-- --Seeks--
Machine          Size K/sec %CP K/sec %CP K/sec %CP K/sec %CP K/sec %CP /sec %CP
localhost.locald 2G 32988 97 47779 6 21777 5 26410 74 49463 6 130.0 0
                  -----Sequential Create----- -----Random Create-----
                  -Create-- --Read--- -Delete-- -Create-- --Read--- -Delete--
                  files /sec %CP /sec %CP /sec %CP /sec %CP /sec %CP /sec %CP
                    5 3145 15 +++++ +++ 3641 15 3299 17 +++++ +++ 2037 9
localhost.localdomain,2G,32988,97,47779,6,21777,5,26410,74,49463,6,130.0,0,5,3145,15,+++++,+++,36
4788 root        25 0 3120 968 840 R 97.9 0.4 0:19.11 bonnie++
4788 root        25 0 3124 972 840 R 97.6 0.4 0:42.54 bonnie++
4788 root        25 0 3116 968 840 D 6.7 0.4 1:37.18 bonnie++
[root@localhost tmp]# bonnie++ -u root -s 3072 -r 512 -n 5 -d /tmp
Using uid:0, gid:0.
Writing with putc()...done
Writing intelligently...done
Rewriting...done
Reading with getc()...done
Reading intelligently...done
start 'em...done...done...done...
Create files in sequential order...done.
Stat files in sequential order...done.
Delete files in sequential order...done.
Create files in random order...done.
Stat files in random order...done.
Delete files in random order...done.
Version 1.03      -----Sequential Output----- --Sequential Input- --Random-
                  -Per Chr- --Block-- -Rewrite- -Per Chr- --Block-- --Seeks--
Machine          Size K/sec %CP K/sec %CP K/sec %CP K/sec %CP K/sec %CP /sec %CP
localhost.locald 3G 32331 97 47200 6 21836 5 26740 75 49292 6 125.9 0
                  -----Sequential Create----- -----Random Create-----
                  -Create-- --Read--- -Delete-- -Create-- --Read--- -Delete--
                  files /sec %CP /sec %CP /sec %CP /sec %CP /sec %CP /sec %CP
                    5 3215 14 +++++ +++ 3360 14 3036 15 +++++ +++ 1856 8
localhost.localdomain,3G,32331,97,47200,6,21836,5,26740,75,49292,6,125.9,0,5,3215,14,+++++,+++,33
5024 postgres 18 0 20116 11m 10m R 68.6 4.6 0:05.75 postmaster
5024 postgres 18 0 21288 12m 10m D 45.3 5.1 0:13.88 postmaster
4950 postgres 15 0 19572 10m 9828 D 1.0 4.0 0:00.13 postmaster
024 postgres 18 0 21568 12m 10m R 60.9 5.1 0:21.99 postmaster
5024 postgres 19 0 20176 11m 10m R 51.9 4.7 0:34.02 postmaster
-bash-3.00$ time psql -d perftst -f tst1.sql
CREATE TABLE
SELECT
INSERT 0 500000
DELETE 500000
DELETE 38462
SELECT
UPDATE 92308
DROP TABLE

```

```

SELECT
DELETE 37037
VACUUM
VACUUM
DROP TABLE
DROP TABLE
DROP TABLE
VACUUM
real    2m9.088s
user    0m0.007s
sys     0m0.005s
5026 postgres 18  0 21392 13m 11m D 45.9 5.3 0:23.92 postmaster
5026 postgres 18  0 21392 13m 11m D 44.3 5.3 0:28.45 postmaster
5026 postgres 18  0 37780 17m 11m R 10.7 7.1 0:34.22 postmaster
5026 postgres 18  0 21392 14m 11m D 13.0 5.7 0:37.30 postmaster
-bash-3.00$ time psql -d perftst -f tst1.sql
CREATE TABLE
SELECT
INSERT 0 500000
DELETE 500000
DELETE 38462
SELECT
UPDATE 92308
DROP TABLE
SELECT
DELETE 37037
VACUUM
VACUUM
DROP TABLE
DROP TABLE
DROP TABLE
VACUUM
real    3m22.001s
user    0m0.007s
sys     0m0.009s
-bash-3.00$ time psql -d perftst -f tst1.sql
CREATE TABLE
SELECT
INSERT 0 500000
DELETE 500000
DELETE 38462
SELECT
UPDATE 92308
DROP TABLE
SELECT
DELETE 37037
VACUUM
VACUUM
DROP TABLE
DROP TABLE
DROP TABLE
VACUUM
real    2m17.877s
user    0m0.003s
sys     0m0.006s
26432 postgres 18  0 20140 10m 9764 R 46.6 4.2 0:03.92 postmaster
bash-3.00$ time psql -d perftst -f tst1.sql
CREATE TABLE
SELECT
INSERT 0 500000
DELETE 500000
DELETE 38462

```

```

SELECT
UPDATE 92308
DROP TABLE
SELECT
DELETE 37037
VACUUM
VACUUM
DROP TABLE
DROP TABLE
DROP TABLE
VACUUM
real    2m17.666s
user    0m0.003s
sys     0m0.006s
26440 postgres 18  0 22160 13m 10m D 50.3 5.2 0:23.60 postmaster
26440 postgres 18  0 37820 17m 11m R 9.3 6.9 0:34.46 postmaster
-bash-3.00$ time psql -d perftst -f tst1.sql
CREATE TABLE
SELECT
INSERT 0 500000
DELETE 500000
DELETE 38462
SELECT
UPDATE 92308
DROP TABLE
SELECT
DELETE 37037
VACUUM
VACUUM
DROP TABLE
DROP TABLE
DROP TABLE
VACUUM
real    2m19.578s
user    0m0.005s
sys     0m0.010s
(6 Million Rows)
26445 postgres 19  0 20116 10m 10m R 58.9 4.3 0:03.32 postmaster
26445 postgres 19  0 20116 10m 10m R 51.6 4.4 0:18.37 postmaster
26445 postgres 18  0 31764 22m 10m D 9.3 8.9 1:33.57 postmaster
26445 postgres 18  0 45076 36m 11m R 8.3 14.7 5:21.49 postmaster
-bash-3.00$ time psql -d perftst -f tst1.sql
CREATE TABLE
SELECT
INSERT 0 3000000
DELETE 3000000
DELETE 230772
SELECT
UPDATE 553848
DROP TABLE
SELECT
DELETE 222222
VACUUM
VACUUM
DROP TABLE
DROP TABLE
DROP TABLE
VACUUM
real    21m15.074s
user    0m0.003s
sys     0m0.007s
(tst.sql)

```

```
select * from test1 where anumber=894455;
select * from test1 where anumber=75455;
select * from test1 where anumber=444455;
select * from test1 where anumber=7594455;
select * from test1 where anumber=7511455;
select * from test1 where anumber=7555;
select * from test1 where anumber=5;
select * from test1 where anumber=4455;
select * from test1 where anumber=111155;
select * from test1 where anumber=33355;
select * from test1 where anumber=998455;
select * from test1 where anumber=8455;
select * from test1 where anumber=22754455;
```

```
-----
-bash-3.00$ time psql -d perftst -f tst.sql
```

thedata	astring	anumber
2005-01-20 18:45:25.058853	test string	894455
2005-01-20 19:10:26.609873	test string	894455
2005-01-20 19:12:06.125588	test string	894455
2005-01-20 19:12:47.447711	test string	894455
2005-01-20 19:15:21.224914	test string	894455
2005-01-20 19:16:12.809133	test string	894455
(6 rows)		
thedata	astring	anumber
2005-01-20 18:45:25.058853	test string	75455
2005-01-20 19:10:26.609873	test string	75455
2005-01-20 19:12:06.125588	test string	75455
2005-01-20 19:12:47.447711	test string	75455
2005-01-20 19:15:21.224914	test string	75455
2005-01-20 19:16:12.809133	test string	75455
(6 rows)		
thedata	astring	anumber
2005-01-20 18:45:25.058853	test string	444455
2005-01-20 19:10:26.609873	test string	444455
2005-01-20 19:12:06.125588	test string	444455
2005-01-20 19:12:47.447711	test string	444455
2005-01-20 19:15:21.224914	test string	444455
2005-01-20 19:16:12.809133	test string	444455
(6 rows)		
thedata	astring	anumber
(0 rows)		
thedata	astring	anumber
(0 rows)		
thedata	astring	anumber
2005-01-20 18:45:25.058853	test string	7555
2005-01-20 19:10:26.609873	test string	7555
2005-01-20 19:12:06.125588	test string	7555
2005-01-20 19:12:47.447711	test string	7555
2005-01-20 19:15:21.224914	test string	7555
2005-01-20 19:16:12.809133	test string	7555
(6 rows)		
thedata	astring	anumber
2005-01-20 18:45:25.058853	test string	5
2005-01-20 19:10:26.609873	test string	5
2005-01-20 19:12:06.125588	test string	5

freebsd-questions: FreeBSD 5.3 I/O Performance / Linux 2.6.10 | More Info

```
2005-01-20 19:12:47.447711 | test string | 5
2005-01-20 19:15:21.224914 | test string | 5
2005-01-20 19:16:12.809133 | test string | 5
```

(6 rows)

```

thedata | astring | anumber
-----+-----+-----
2005-01-20 18:45:25.058853 | test string | 4455
2005-01-20 19:10:26.609873 | test string | 4455
2005-01-20 19:12:06.125588 | test string | 4455
2005-01-20 19:12:47.447711 | test string | 4455
2005-01-20 19:15:21.224914 | test string | 4455
2005-01-20 19:16:12.809133 | test string | 4455
```

(6 rows)

```

thedata | astring | anumber
-----+-----+-----
2005-01-20 18:45:25.058853 | test string | 111155
2005-01-20 19:10:26.609873 | test string | 111155
2005-01-20 19:12:06.125588 | test string | 111155
2005-01-20 19:12:47.447711 | test string | 111155
2005-01-20 19:15:21.224914 | test string | 111155
2005-01-20 19:16:12.809133 | test string | 111155
```

(6 rows)

```

thedata | astring | anumber
-----+-----+-----
2005-01-20 18:45:25.058853 | test string | 33355
2005-01-20 19:10:26.609873 | test string | 33355
2005-01-20 19:12:06.125588 | test string | 33355
2005-01-20 19:12:47.447711 | test string | 33355
2005-01-20 19:15:21.224914 | test string | 33355
2005-01-20 19:16:12.809133 | test string | 33355
```

(6 rows)

```

thedata | astring | anumber
-----+-----+-----
2005-01-20 18:45:25.058853 | test string | 998455
2005-01-20 19:10:26.609873 | test string | 998455
2005-01-20 19:12:06.125588 | test string | 998455
2005-01-20 19:12:47.447711 | test string | 998455
2005-01-20 19:15:21.224914 | test string | 998455
2005-01-20 19:16:12.809133 | test string | 998455
```

(6 rows)

```

thedata | astring | anumber
-----+-----+-----
2005-01-20 18:45:25.058853 | test string | 8455
2005-01-20 19:10:26.609873 | test string | 8455
2005-01-20 19:12:06.125588 | test string | 8455
2005-01-20 19:12:47.447711 | test string | 8455
2005-01-20 19:15:21.224914 | test string | 8455
2005-01-20 19:16:12.809133 | test string | 8455
```

(6 rows)

```
thedata | astring | anumber
-----+-----+-----
```

```
(0 rows)
real    2m31.883s
user    0m0.002s
sys     0m0.005s
```

Various Notes:

```
1/18/05 PE 2400 bonnie++ Test with ext3:
Top Output:
3911 root      25   0  3072  964  840 R 98.4  0.2   1:21.21 bonnie++
Bonnie++ Test1:
```

```
[root@es1 npavlica]# bonnie++ -u root -s 1024 -r 512 -n 5 -d /tmp
Using uid:0, gid:0.
Writing with putc()...done
Writing intelligently...done
Rewriting...done
Reading with getc()...done
Reading intelligently...done
start 'em...done...done...done...
Create files in sequential order...done.
Stat files in sequential order...done.
Delete files in sequential order...done.
Create files in random order...done.
Stat files in random order...done.
Delete files in random order...done.
Version 1.03      -----Sequential Output----- --Sequential Input- --Random-
-Per Chr- --Block-- -Rewrite- -Per Chr- --Block-- --Seeks--
Machine          Size K/sec %CP K/sec %CP K/sec %CP K/sec %CP K/sec %CP /sec %CP
es1.estation.com 1G 7469 91 9881 15 4846 6 9073 90 21034 15 362.4 2
-----Sequential Create----- -----Random Create-----
-Create-- --Read--- -Delete-- -Create-- --Read--- -Delete--
files /sec %CP /sec %CP /sec %CP /sec %CP /sec %CP /sec %CP
5 7962 90 +++++ +++ +++++ +++ 8874 99 +++++ +++ 8803 69
es1.estation.com,1G,7469,91,9881,15,4846,6,9073,90,21034,15,362.4,2,5,7962,90,+++++,+++,+++++,+++
Bonnie++ Test 2:
[root@es1 npavlica]# bonnie++ -u root -s 2048 -r 512 -n 5 -d /tmp
Using uid:0, gid:0.
Writing with putc()...done
Writing intelligently...done
Rewriting...done
Reading with getc()...done
Reading intelligently...done
start 'em...done...done...done...
Create files in sequential order...done.
Stat files in sequential order...done.
Delete files in sequential order...done.
Create files in random order...done.
Stat files in random order...done.
Delete files in random order...done.
Version 1.03      -----Sequential Output----- --Sequential Input- --Random-
-Per Chr- --Block-- -Rewrite- -Per Chr- --Block-- --Seeks--
Machine          Size K/sec %CP K/sec %CP K/sec %CP K/sec %CP K/sec %CP /sec %CP
es1.estation.com 2G 7208 88 8042 12 4652 6 8916 96 19611 14 252.9 2
-----Sequential Create----- -----Random Create-----
-Create-- --Read--- -Delete-- -Create-- --Read--- -Delete--
files /sec %CP /sec %CP /sec %CP /sec %CP /sec %CP /sec %CP
5 8075 92 +++++ +++ +++++ +++ 6731 75 +++++ +++ +++++ +++
es1.estation.com,2G,7208,88,8042,12,4652,6,8916,96,19611,14,252.9,2,5,8075,92,+++++,+++,+++++,+++
Bonnie++ Test 3:
[root@es1 npavlica]# bonnie++ -u root -s 3072 -r 512 -n 5 -d /tmp
Using uid:0, gid:0.
Writing with putc()...done
Writing intelligently...done
Rewriting...done
Reading with getc()...done
Reading intelligently...done
start 'em...done...done...done...
Create files in sequential order...done.
Stat files in sequential order...done.
Delete files in sequential order...done.
Create files in random order...done.
Stat files in random order...done.
Delete files in random order...done.
```

freebsd-questions: FreeBSD 5.3 I/O Performance / Linux 2.6.10 | More Info

```

Version 1.03      -----Sequential Output----- --Sequential Input- --Random-
                -Per Chr- --Block-- -Rewrite- -Per Chr- --Block-- --Seeks--
Machine          Size K/sec %CP K/sec %CP K/sec %CP K/sec %CP K/sec %CP /sec %CP
es1.estation.com 3G 6995 85 7921 12 4723 6 9728 96 20919 15 218.5 1
                -----Sequential Create----- -----Random Create-----
                -Create-- --Read--- -Delete-- -Create-- --Read--- -Delete--
                files /sec %CP /sec %CP /sec %CP /sec %CP /sec %CP /sec %CP
                  5 7840 90 +++++ +++ +++++ +++ 8852 100 +++++ +++ 9220 72
es1.estation.com,3G,6995,85,7921,12,4723,6,9728,96,20919,15,218.5,1,5,7840,90,+++++,+++,+++++,+++
DD Test 1:
[root@es1 npavlica]# time dd bs=1024 if=/dev/zero of=tstfile count=1M
1048576+0 records in
1048576+0 records out
real    2m14.152s
user    0m1.649s
sys     0m29.622s
DD Test 2:
[root@es1 npavlica]# time dd bs=1024 if=/dev/zero of=tstfile count=1M
1048576+0 records in
1048576+0 records out
real    2m14.152s
user    0m1.649s
sys     0m29.622s
[root@es1 npavlica]# rm tstfile
rm: remove regular file `tstfile'? y
[root@es1 npavlica]# time dd bs=1024 if=/dev/zero of=tstfile count=2M
2097152+0 records in
2097152+0 records out
real    4m7.145s
user    0m3.152s
sys     1m0.303s
DD Test 3:
[root@es1 npavlica]# time dd bs=1024 if=/dev/zero of=tstfile count=3M
3145728+0 records in
3145728+0 records out
real    6m40.592s
user    0m4.751s
sys     1m31.968s
FreeBSD5.3 I/O Tests:
Partition Layout / Utilization:
$ df -h
Filesystem      Size      Used      Avail Capacity  Mounted on
/dev/aacd0sla   248M      35M      193M      15%          /
devfs           1.0K      1.0K      0B        100%         /dev
/dev/aacd0sle   248M      6.0K      228M      0%          /tmp
/dev/aacd0s1f   31G      1.8G      27G       6%          /usr
/dev/aacd0s1d   248M      2.6M      225M      1%          /var
Bonnie++ Test 1:
 715 nick.pavlica 97    0 2380K 1324K RUN      0:53 21.12% 20.85% bonnie++
$ bonnie++ -s 1024 -r 512 -n 5
Writing a byte at a time...done
Writing intelligently...done
Rewriting...done
Reading a byte at a time...done
Reading intelligently...done
start 'em...done...done...done...done...done...
Create files in sequential order...done.
Stat files in sequential order...done.
Delete files in sequential order...done.535 nick.pavlica  -4    0
2380K 1216K getblk  0:17 2.84% 2.83% bonnie++
Create files in random order...done.
Stat files in random order...done.

```

```

Delete files in random order...done.
Version 1.93c      -----Sequential Output----- --Sequential Input- --Random-
Concurrency  1    -Per Chr- --Block-- -Rewrite- -Per Chr- --Block-- --Seeks--
Machine        Size K/sec %CP K/sec %CP K/sec %CP K/sec %CP K/sec %CP /sec %CP
vader.e--station 1G   60 99 6351 7 4169 5 170 99 20904 13 200.7 19
Latency        190ms      6458ms 10221ms 57902us 33802us 423ms
Version 1.93c      -----Sequential Create----- -----Random Create-----
vader.e--station.co -Create-- --Read--- -Delete-- -Create-- --Read--- -Delete--
                files /sec %CP /sec %CP /sec %CP /sec %CP /sec %CP /sec %CP
                5 5647 59 +++++ +++ 9412 74 5757 56 +++++ +++ 5291 45
Latency        9741us      917us   315us   225ms   875us 11165us
1.93c,1.93c,vader.eâ€"station.com,1,1106164339,1G,,60,99,6351,7,4169,5,170,99,20904,13,200.7,19,5
Bonnie++ Test 2:
745 nick.pavlica -16 0 2380K 1200K wdtrain 0:58 7.03% 7.03% bonnie++
745 nick.pavlica -4 0 2380K 1200K getblk 1:21 5.57% 5.57% bonnie++
$ bonnie++ -s 2048 -r 512 -n 5
Writing a byte at a time...done
Writing intelligently...done
Rewriting...done
Reading a byte at a time...done
Reading intelligently...done
start 'em...done...done...done...done...done...
Create files in sequential order...done.
Stat files in sequential order...done.
Delete files in sequential order...done.
Create files in random order...done.
Stat files in random order...done.
Delete files in random order...done.
Version 1.93c      -----Sequential Output----- --Sequential Input- --Random-
Concurrency  1    -Per Chr- --Block-- -Rewrite- -Per Chr- --Block-- --Seeks--
Machine        Size K/sec %CP K/sec %CP K/sec %CP K/sec %CP K/sec %CP /sec %CP
vader.e--station 2G   60 99 5483 6 4448 5 170 99 19045 12 129.8 13
Latency        152ms      9726ms 7113ms 55161us 42746us 3598ms
Version 1.93c      -----Sequential Create----- -----Random Create-----
vader.e--station.co -Create-- --Read--- -Delete-- -Create-- --Read--- -Delete--
                files /sec %CP /sec %CP /sec %CP /sec %CP /sec %CP /sec %CP
                5 7036 72 +++++ +++ 9521 75 4877 50 +++++ +++ 9029 76
Latency        5716us      955us   3648us 10997us 400us 320us
1.93c,1.93c,vader.eâ€"station.com,1,1106164107,2G,,60,99,5483,6,4448,5,170,99,19045,12,129.8,13,5
Bonnie++ Test 3:
789 nick.pavlica -4 0 2380K 1208K getblk 1:52 4.64% 4.64% bonnie++
789 nick.pavlica -4 0 2380K 1208K getblk 1:52 2.49% 2.49% bonnie++
$ bonnie++ -s 3072 -r 512 -n 5
Writing a byte at a time...done
Writing intelligently...done
Rewriting...done
Reading a byte at a time...done
Reading intelligently...done
start 'em...done...done...done...done...done...
Create files in sequential order...done.
Stat files in sequential order...done.
Delete files in sequential order...done.
Create files in random order...done.
Stat files in random order...done.
Delete files in random order...done.
Version 1.93c      -----Sequential Output----- --Sequential Input- --Random-
Concurrency  1    -Per Chr- --Block-- -Rewrite- -Per Chr- --Block-- --Seeks--
Machine        Size K/sec %CP K/sec %CP K/sec %CP K/sec %CP K/sec %CP /sec %CP
vader.e--station 3G   60 99 6184 7 3907 4 167 98 20993 14 99.3 11
Latency        177ms      9312ms 15369ms 72183us 70690us 608ms
Version 1.93c      -----Sequential Create----- -----Random Create-----
vader.e--station.co -Create-- --Read--- -Delete-- -Create-- --Read--- -Delete--

```

freebsd-questions: FreeBSD 5.3 I/O Performance / Linux 2.6.10 | More Info

```

files /sec %CP /sec %CP /sec %CP /sec %CP /sec %CP /sec %CP
5 7032 72 +++++ +++ 9667 77 7445 74 +++++ +++ 4197 36
Latency 5855us 1682us 359us 8565us 11109us 11436us
1.93c,1.93c,vader.e--station.com,1,1106166552,3G,,60,99,6184,7,3907,4,167,98,20993,14,99.3,11,5,,
DD Test1:
$ time dd bs=1024 if=/dev/zero of=tstfile count=1M
1048576+0 records in
1048576+0 records out
1073741824 bytes transferred in 168.394218 secs (6376358 bytes/sec)
168.41 real 1.34 user 33.60 sys
168.41 / 60 = 2.806833333
DD Test 2:
Top was:
- 575 nick.pavlica -16 0 1212K 588K wdtrain 0:13 17.30% 17.04% dd
- 575 nick.pavlica -16 0 1212K 588K wdtrain 0:32 20.85% 20.85% dd
$ time dd bs=1024 if=/dev/zero of=tstfile count=2M
2097152+0 records in
2097152+0 records out
2147483648 bytes transferred in 359.389723 secs (5975362 bytes/sec)
359.59 real 2.57 user 68.14 sys
359.59 / 60 = 5.993166667
DD Test 3:
661 nick.pavlica -16 0 1212K 588K wdtrain 0:06 20.86% 15.19% dd
$ time dd bs=1024 if=/dev/zero of=tstfile count=3M
3145728+0 records in
3145728+0 records out
3221225472 bytes transferred in 520.399250 secs (6189912 bytes/sec)
520.60 real 4.06 user 102.48 sys
520.6 / 60 = 8.676666667
Fedora C3 With XFS:
(minimal install)
[root@localhost ~]# df -h
Filesystem Size Used Avail Use% Mounted on
/dev/sda3 34G 737M 33G 3% /
/dev/sdal 92M 6.0M 86M 7% /boot
none 252M 0 252M 0% /dev/shm
Bonnie++ Test 1:
[root@localhost tmp]# bonnie++ -u root -s 1024 -r 512 -n 5 -d /tmp
Using uid:0, gid:0.
Writing with putc()...done
Writing intelligently...done
Rewriting...done
Reading with getc()...done
Reading intelligently...done
start 'em...done...done...done...
Create files in sequential order...done.
Stat files in sequential order...done.
Delete files in sequential order...done.
Create files in random order...done.
Stat files in random order...done.
Delete files in random order...done.
Version 1.03 -----Sequential Output----- --Sequential Input- --Random-
-Per Chr- --Block-- -Rewrite- -Per Chr- --Block-- --Seeks--
Machine Size K/sec %CP K/sec %CP K/sec %CP K/sec %CP K/sec %CP /sec %CP
localhost.locald 1G 8206 96 11876 13 5982 10 9375 95 24909 21 538.8 4
-----Sequential Create----- -----Random Create-----
-Create-- --Read--- -Delete-- -Create-- --Read--- -Delete--
files /sec %CP /sec %CP /sec %CP /sec %CP /sec %CP /sec %CP
5 652 13 +++++ +++ 600 14 622 14 +++++ +++ 365 7
localhost.localdomain,1G,8206,96,11876,13,5982,10,9375,95,24909,21,538.8,4,5,652,13,+++++,+++ ,600
Bonnie++ Test 2:
[root@localhost tmp]# bonnie++ -u root -s 2048 -r 512 -n 5 -d /tmp

```

```

Using uid:0, gid:0.
Writing with putc()...done
Writing intelligently...done
Rewriting...done
Reading with getc()...done
Reading intelligently...done
start 'em...done...done...done...
Create files in sequential order...done.
Stat files in sequential order...done.
Delete files in sequential order...done.
Create files in random order...done.
Stat files in random order...done.
Delete files in random order...done.
Version 1.03      -----Sequential Output----- --Sequential Input- --Random-
                  -Per Chr- --Block-- -Rewrite- -Per Chr- --Block-- --Seeks--
Machine          Size K/sec %CP K/sec %CP K/sec %CP K/sec %CP K/sec %CP /sec %CP
localhost.locald 2G 7981 94 8794 9 6026 10 9535 97 25025 21 392.1 3
                  -----Sequential Create----- -----Random Create-----
                  -Create-- --Read--- -Delete-- -Create-- --Read--- -Delete--
                  files /sec %CP /sec %CP /sec %CP /sec %CP /sec %CP /sec %CP
                    5 635 13 +++++ +++ 587 14 574 13 +++++ +++ 388 8
localhost.localdomain,2G,7981,94,8794,9,6026,10,9535,97,25025,21,392.1,3,5,635,13,+++++,+++ ,587,13
Bonnie++ Test 3:
2745 root        25 0 4176 976 2300 R 99.9 0.2 3:34.49 bonnie++
[root@localhost tmp]# bonnie++ -u root -s 3072 -r 512 -n 5 -d /tmp
Using uid:0, gid:0.
Writing with putc()...done
Writing intelligently...done
Rewriting...done
Reading with getc()...done
Reading intelligently...done
start 'em...done...done...done...
Create files in sequential order...done.
Stat files in sequential order...done.
Delete files in sequential order...done.
Create files in random order...done.
Stat files in random order...done.
Delete files in random order...done.
Version 1.03      -----Sequential Output----- --Sequential Input- --Random-
                  -Per Chr- --Block-- -Rewrite- -Per Chr- --Block-- --Seeks--
Machine          Size K/sec %CP K/sec %CP K/sec %CP K/sec %CP K/sec %CP /sec %CP
localhost.locald 3G 7909 93 8053 8 3498 5 9328 95 24895 21 351.9 3
                  -----Sequential Create----- -----Random Create-----
                  -Create-- --Read--- -Delete-- -Create-- --Read--- -Delete--
                  files /sec %CP /sec %CP /sec %CP /sec %CP /sec %CP /sec %CP
                    5 559 12 +++++ +++ 528 13 594 13 +++++ +++ 414 9
localhost.localdomain,3G,7909,93,8053,8,3498,5,9328,95,24895,21,351.9,3,5,559,12,+++++,+++ ,528,13
DD Test 1:
2629 root        18 0 4632 472 3344 D 24.5 0.1 0:20.46 dd
[root@localhost ~]# time dd bs=1024 if=/dev/zero of=tstfile count=1M
1048576+0 records in
1048576+0 records out
real    1m39.842s
user    0m4.404s
sys     0m22.647s
DD Test 2:
2669 root        18 0 4596 472 3344 D 20.5 0.1 0:07.93 dd
[root@localhost ~]# time dd bs=1024 if=/dev/zero of=tstfile count=2M
2097152+0 records in
2097152+0 records out
real    4m11.713s
user    0m9.131s

```

```
sys      0m46.951s
DD Test 3:
2707 root      18    0  3832  472 3344 R 23.2  0.1   0:30.84 dd
[root@localhost ~]# time dd bs=1024 if=/dev/zero of=tstfile count=3M
3145728+0 records in
3145728+0 records out
real     6m52.182s
user     0m13.450s
sys      1m10.167s
```

SC 400 Tests

fc3 with xfs:

```
[root@localhost ~]# time dd bs=1024 if=/dev/zero of=tstfile count=1M
1048576+0 records in
1048576+0 records out
real     0m27.491s
user     0m1.436s
sys      0m6.888s
```

```
[root@localhost ~]# time dd bs=1024 if=/dev/zero of=tstfile count=2M
2097152+0 records in
2097152+0 records out
real     1m3.194s
user     0m2.847s
sys      0m13.766s
```

```
[root@localhost ~]# time dd bs=1024 if=/dev/zero of=tstfile count=3M
3145728+0 records in
3145728+0 records out
real     1m59.668s
user     0m4.304s
sys      0m20.673s
```

```
[root@localhost ~]# time dd bs=1024 if=/dev/zero of=tstfile count=7M
7340032+0 records in
7340032+0 records out
real     4m6.371s
user     0m9.877s
sys      0m49.454s
```

```
[root@localhost ~]# time dd bs=1024 if=/dev/zero of=tstfile count=3M
3145728+0 records in
3145728+0 records out
real     1m35.411s
user     0m4.495s
sys      0m21.006s
```

```
[root@localhost ~]# ls
anaconda-ks.cfg  install.log  install.log.syslog  tstfile
copy test:
```

(sc400)

```
[root@localhost ~]# time cp tstfile tstfile2
real     3m22.202s
user     0m1.320s
sys      0m12.605s
```

(pe2400)

```
[root@localhost ~]# time cp tstfile tstfile2
real     11m6.046s
user     0m1.091s
sys      0m39.096s
```

freebsd-questions@freebsd.org mailing list

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