

BTRFS vs EXT4

Setup

New factory fresh disc 1TB WD Black WDC WD1003FZEX-00MK2A0.

```
sudo hdparm -tT /dev/sdc
```

```
/dev/sdc:
```

```
Timing cached reads:   35212 MB in  2.00 seconds = 17633.75 MB/sec
```

```
Timing buffered disk reads: 556 MB in  3.06 seconds = 181.66 MB/sec
```

Two 100MB primary partitions created in the middle of disk. First with EXT4 second with BTRFS. No tuning or additional options provided during partition creation.

Before each test system cache was emptied:

```
# echo 3 > /proc/sys/vm/drop_caches
```

Buildroot build performance test

test	EXT4	BTRFS
make toolchain	real 6m7.255s user 24m10.084s sys 1m39.960s	real 6m13.194s user 23m56.444s sys 1m41.756s
make uboot	real 0m14.012s user 0m29.096s sys 0m2.008s	real 0m12.640s user 0m28.872s sys 0m2.080s
make linux	real 2m4.305s user 11m38.244s sys 0m37.728s	real 2m2.923s user 11m40.824s sys 0m37.316s
make linux-reconfigure	real 0m38.449s user 0m15.380s sys 0m2.352s	real 0m35.751s user 0m15.564s sys 0m2.320s
make clean &&	real 0m10.746s user 0m1.740s sys 0m1.528s	real 0m15.921s user 0m1.588s sys 0m3.412s
make sync	real 0m0.185s user 0m0.000s sys 0m0.000s	real 0m0.502s user 0m0.000s sys 0m0.072s
grep -r dupa	real 0m9.038s user 0m0.264s sys 0m0.284s	real 0m4.719s user 0m0.212s sys 0m0.296s
git checkout	real 0m26.680s user 0m1.712s sys 0m0.700s	real 0m19.952s user 0m1.672s sys 0m1.192s

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