

1. 一個跑完再跑一次, 一次時間差不多10.994s, 因為用內建time指令, 所以誤差不大
總共花43.974s

```

ariel9071@ubuntu:~/system-programming/ch04$ time ./flock & time ./flock
k & time ./flock & time ./flock
[1] 4413
[2] 4414
[3] 4415

real    0m10.994s
user    0m0.001s
sys     0m0.123s
ariel9071@ubuntu:~/system-programming/ch04$
real    0m10.993s
user    0m0.001s
sys     0m0.125s

real    0m10.995s
user    0m0.001s
sys     0m0.134s

real    0m10.992s
user    0m0.011s
sys     0m0.112s

```

lockf: 總共43.96s

```

ariel9071@ubuntu:~/system-programming/ch04$ time ./lockf & time ./lockf
f & time ./lockf & time ./lockf
[1] 4344
[2] 4345
[3] 4346

real    0m10.995s
user    0m0.001s
sys     0m0.146s
[2]-    Done                               time ./lockf

real    0m21.985s
user    0m0.003s
sys     0m0.338s
ariel9071@ubuntu:~/system-programming/ch04$
real    0m32.972s
user    0m0.012s
sys     0m0.172s

real    0m43.960s
user    0m0.001s
sys     0m0.201s

```

2.lockf:出現紅字,檔案讀取時已被修改!!

[illegible]

```
ariel9071@ubuntu:~/system-programming/ch04$ time ./lockf & time ./lockf
f & time ./lockf & time ./lockf
[1] 2254
[2] 2255
[3] 2256

real    0m11.075s
user    0m0.000s
sys     0m0.231s
vim lockf.db[1]    Done                                time ./lockf

real    0m22.110s
user    0m0.017s
sys     0m0.491s
ariel9071@ubuntu:~/system-programming/ch04$ vim lockf.db
[2]-  Done                                time ./lockf
[3]+  Done                                time ./lockf
```

flock: 可以儲存, 沒有出現紅字警告


```

ariel9071@ubuntu:~/system-programming/ch04$ time ./flock & time ./flock
k & time ./flock & time ./flock
[1] 2337
[2] 2338
[3] 2339
vim flock.db

real    0m10.980s
user    0m0.001s
sys     0m0.204s
[1] Done                                time ./flock

real    0m10.982s
user    0m0.002s
sys     0m0.400s

real    0m10.979s
user    0m0.001s
sys     0m0.202s
ariel9071@ubuntu:~/system-programming/ch04$ vim flock.db

real    0m11.001s
user    0m0.016s
sys     0m0.183s
[2]- Done                                time ./flock
[3]+ Done                                time ./flock

```

3.兩個實際檔案大小:3.8M, 邏輯上大小:4M(4K*1000)

```

564157415841594160416141624163416441654166416741684169417041714172417
341744175417641774178417941804181418241834184418541864187418841894190
419141924193419441954196419741984199420042014202420342044205420642074
208420942104211421242134214421542164217421842194220422142224223422442
254226422742284229423042314232423342344235423642374238423942404241424
242434244424542464247424842494250425142524253425442554256425742584259
426042614262426342644265426642674268426942704271427242734274427542764
277427842794280428142824283428442854286428742884289429042914292429342
944295429642974298429943004301430243034304430543064307430843094310431
143124313431443154316431743184319432043214322432343244325432643274328
432943304331433243334334433543364337433843394340434143424343434443454
346434743484349435043514352435343544355435643574358435943604361436243
634364436543664367436843694370437143724373437443754376437743784379438
043814382438343844385438643874388438943904391439243934394439543964397
439843994400440144024403440444054406440744084409441044114412441344144
415441644174418441944204421442244234424442544264427442844294430443144
324433443444354436443744384439444044414442444344444445444644474448444
944504451445244534454445544564457445844594460446144624463446444654466
446744684469447044714472447344744475447644774478447944804481448244834
4844485448644874488448944904491449244934494449544964497449844994500
ariel9071@ubuntu:~/system-programming/ch04$ ls flock.db -alh
3.8M -rw-rw-r-- 1 ariel9071 ariel9071 3.9M Mar 29 05:52 flock.db

ariel9071@ubuntu:~/system-programming/ch04$ ls lockf.db -alh
3.8M -rw-rw-r-- 1 ariel9071 ariel9071 3.9M Mar 29 05:59 lockf.db

```