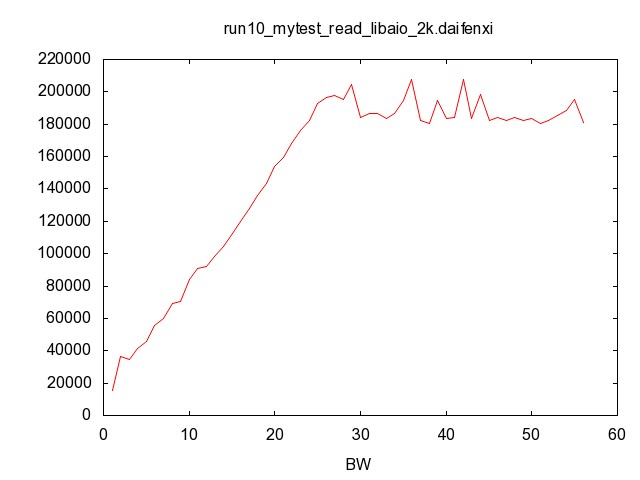
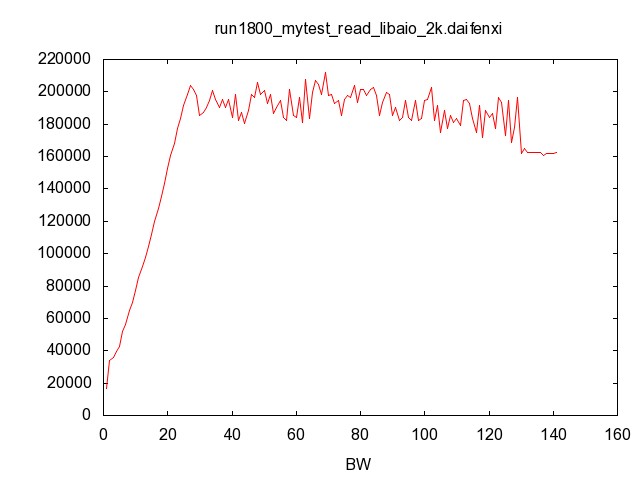
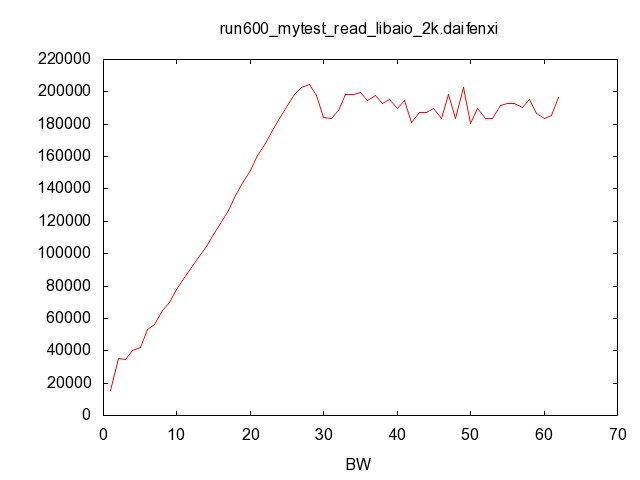
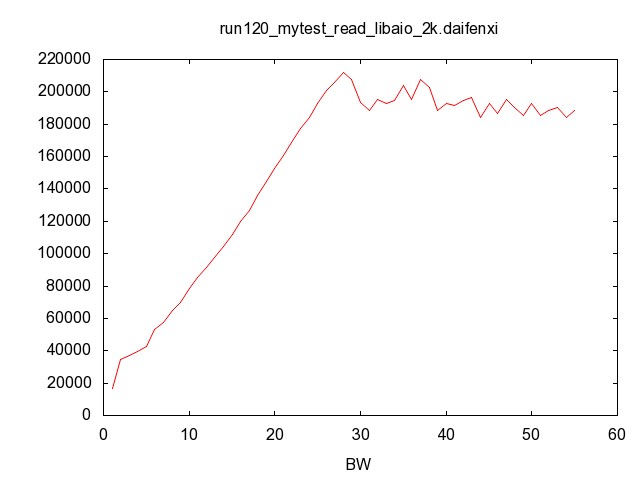
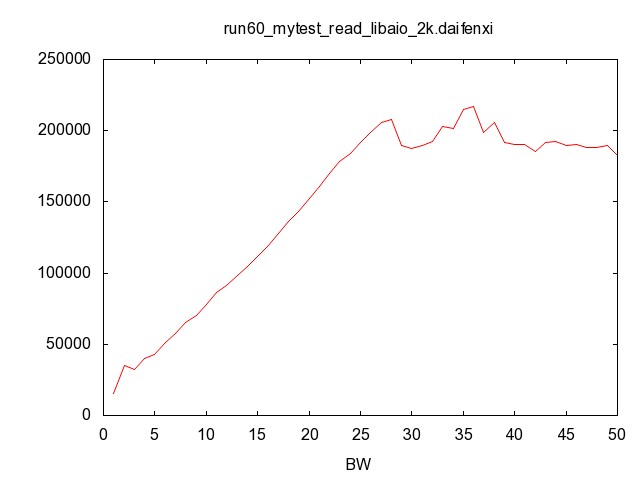
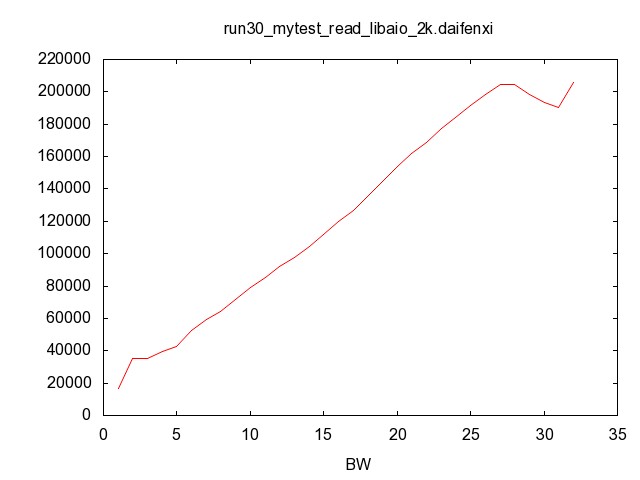
# SSD硬盘FIO结果分析

横坐标为numjobs，纵坐标为bw，画的有点问题，说明下

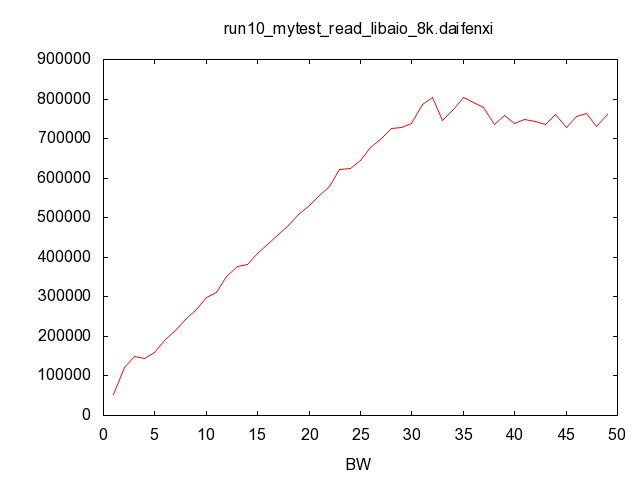
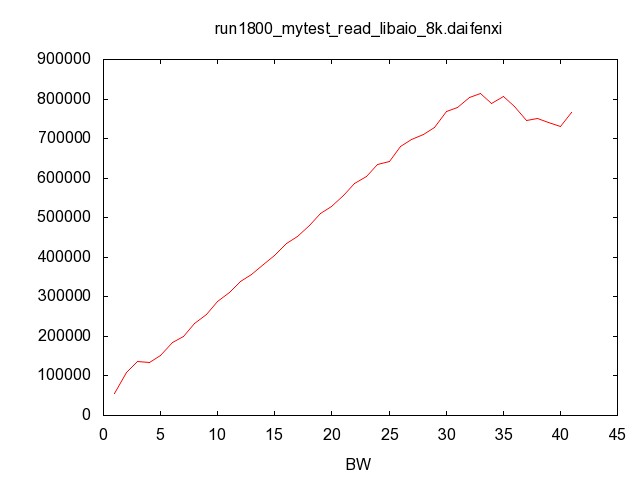
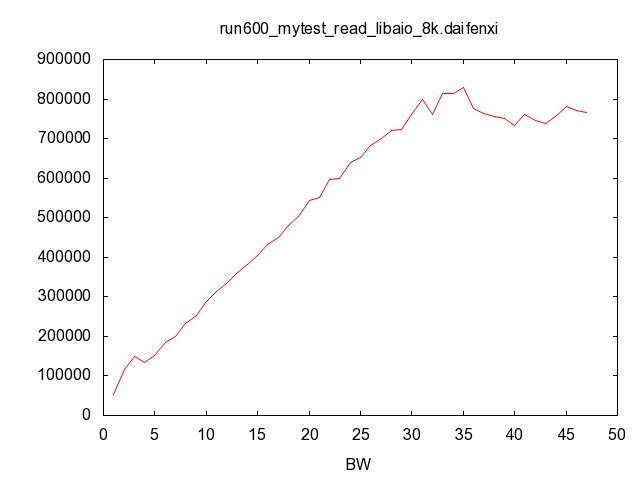
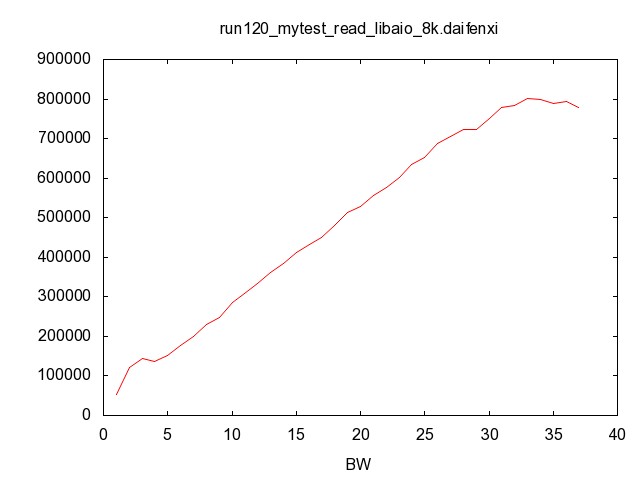
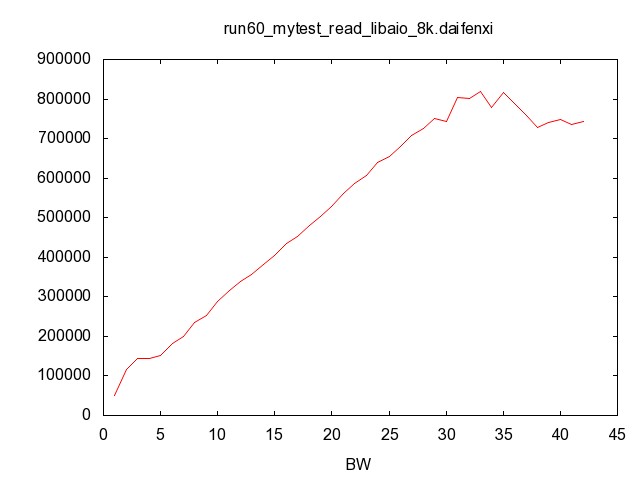
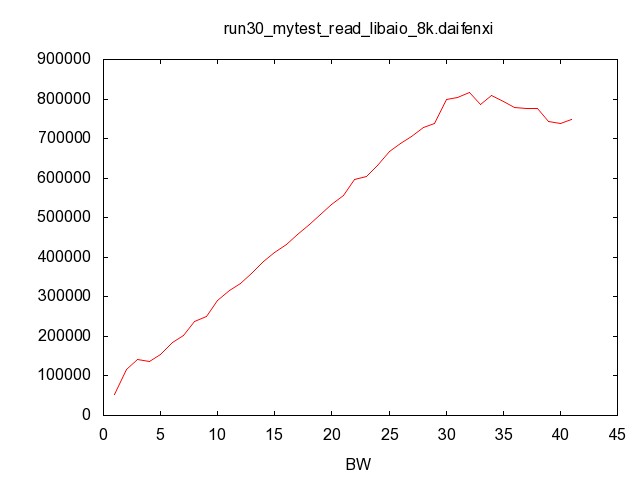
rw和randrw的bw结果需要乘以2，这里是只记录读写中的一个

##### 1、固定参数：2k、libaio、read，变量：numjobs、测试时间



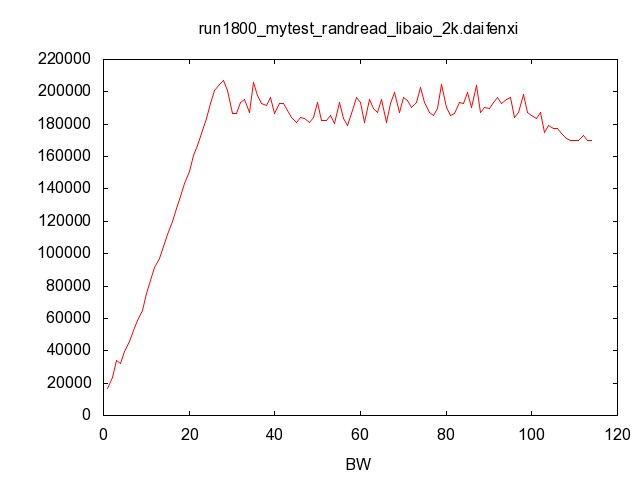
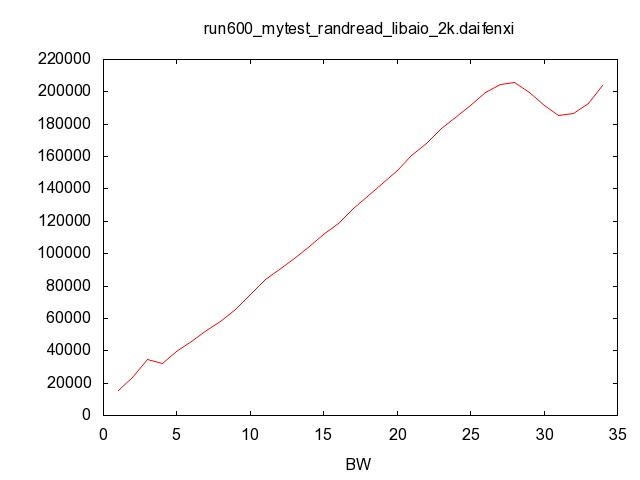
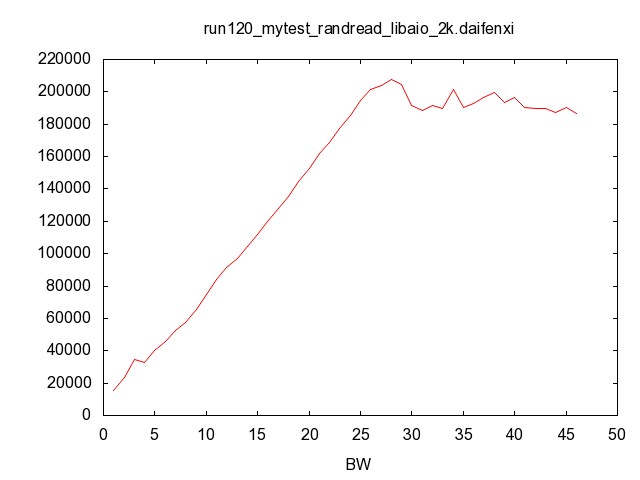
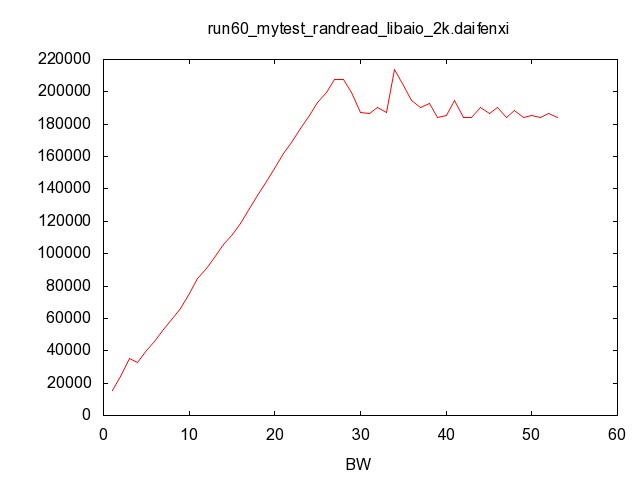
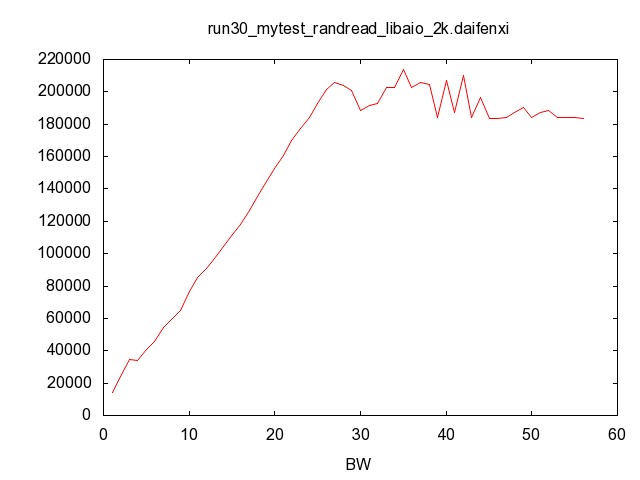
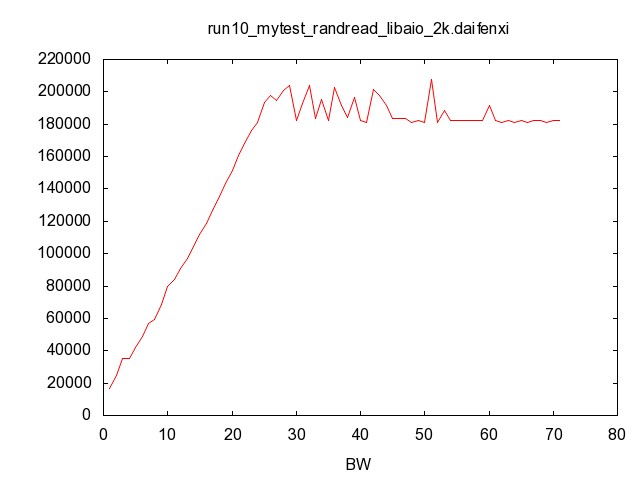
结论：会在numjobs为30左右达到最大值20W左右，且测试时间无关，numjobs过大会导致性能下降

##### **2、固定参数：8k、libaio、read，变量：numjobs、测试时间**



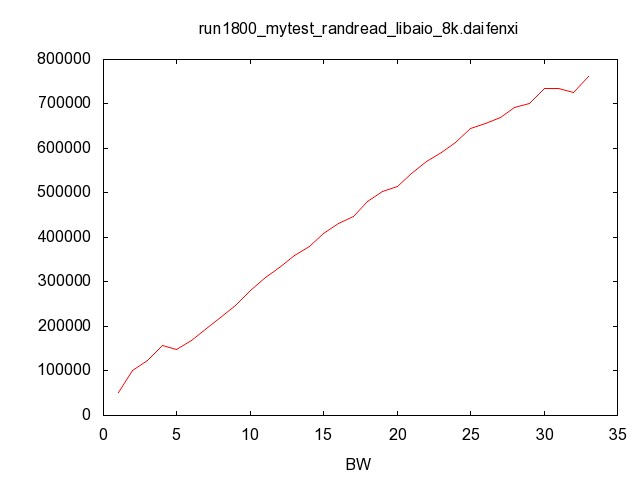
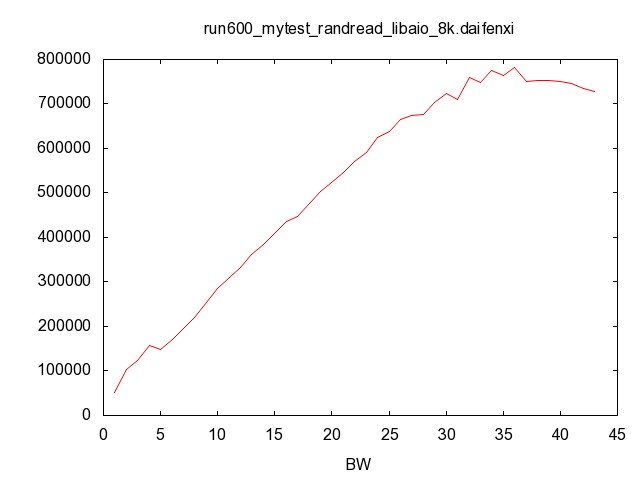
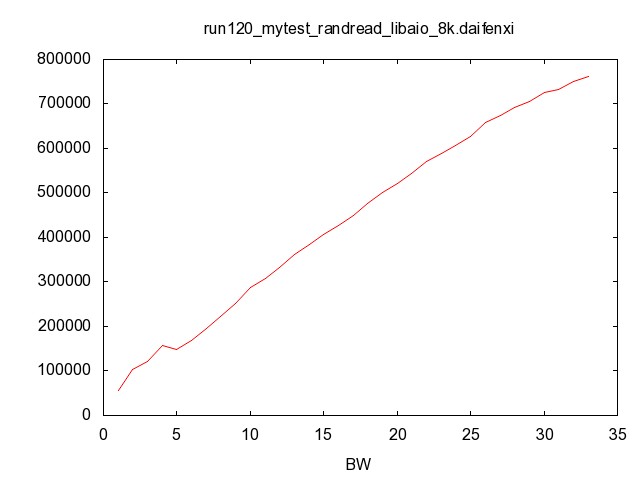
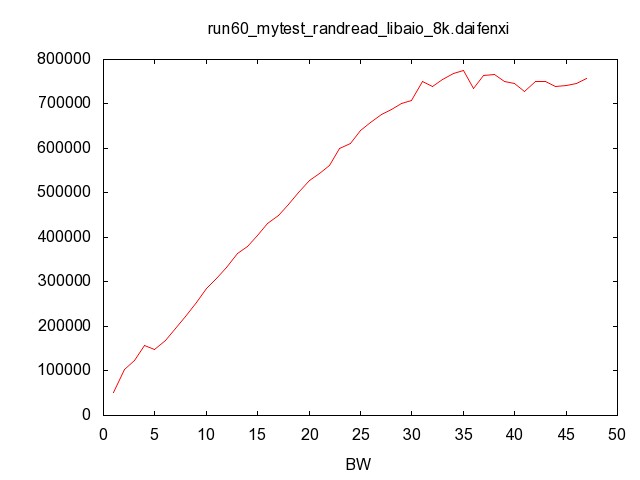
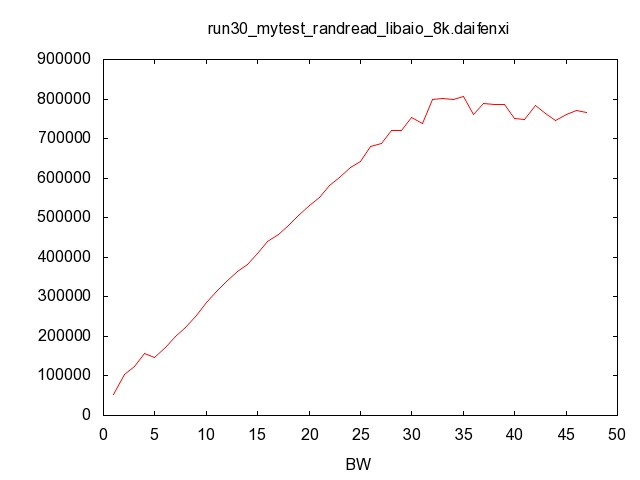
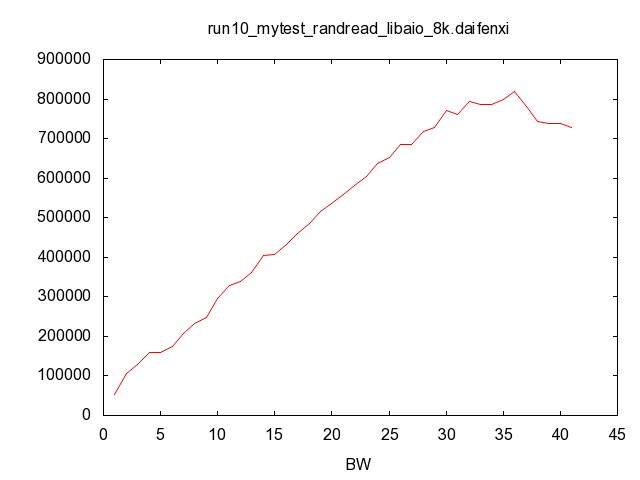
结论：会在numjobs为30左右达到最大值80W左右，且测试时间无关。

##### **3、固定参数：2k、libaio、randread，变量：numjobs、测试时间**



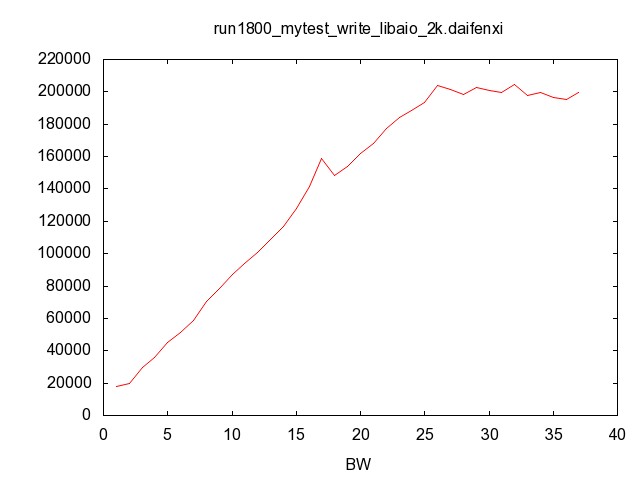
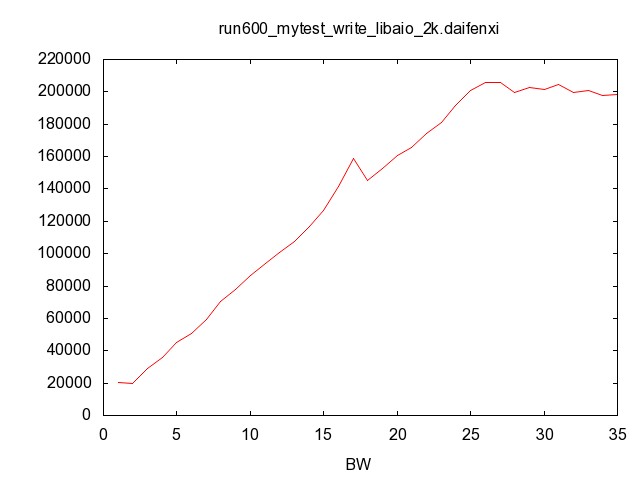
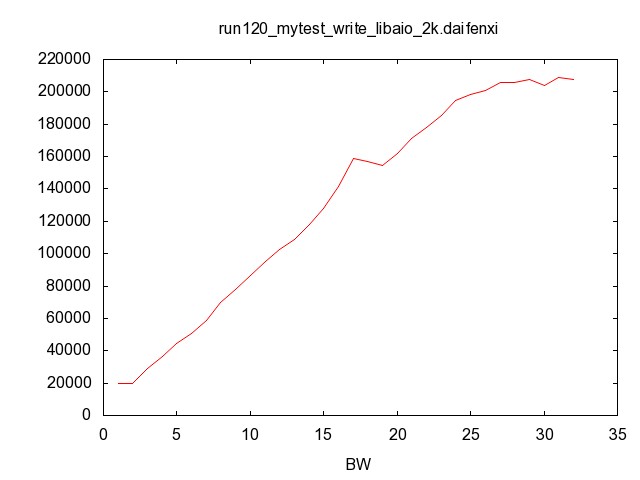
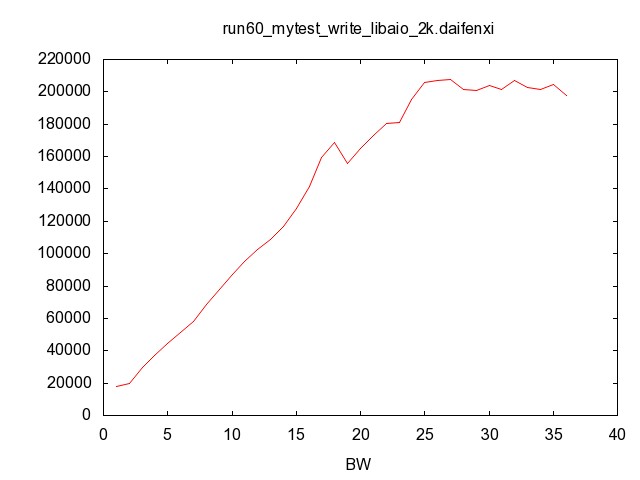
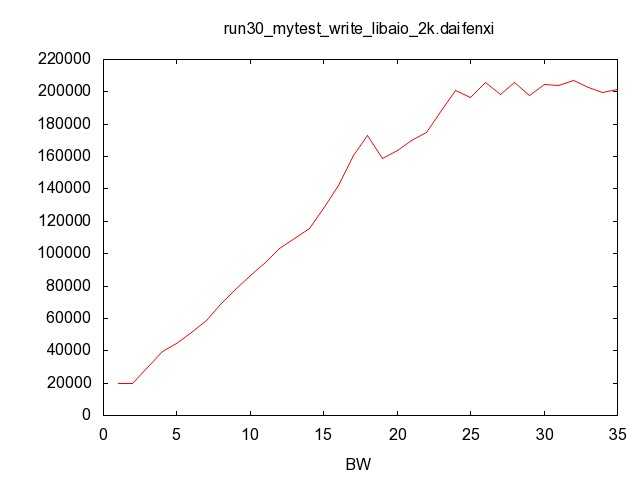
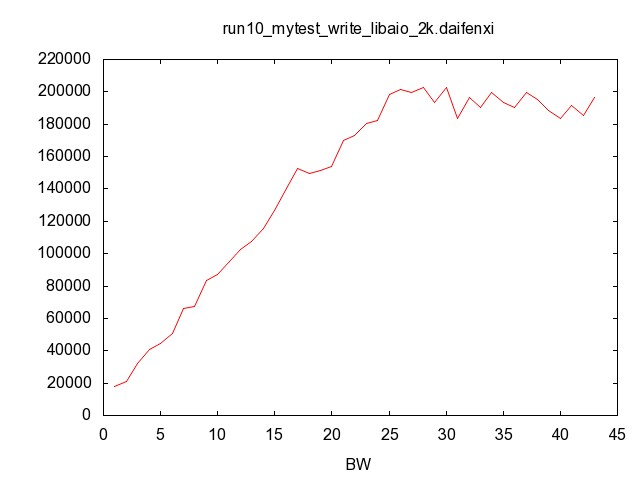
结论：会在numjobs为30左右达到最大值20W左右，且测试时间无关

##### 4、**固定参数：8k、libaio、randread，变量：numjobs、测试时间**



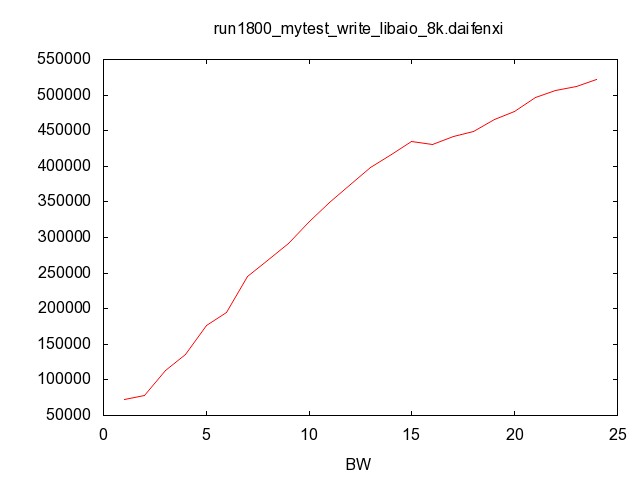
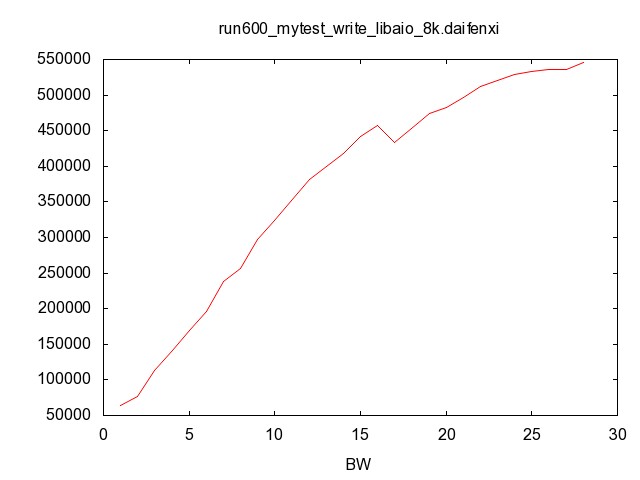
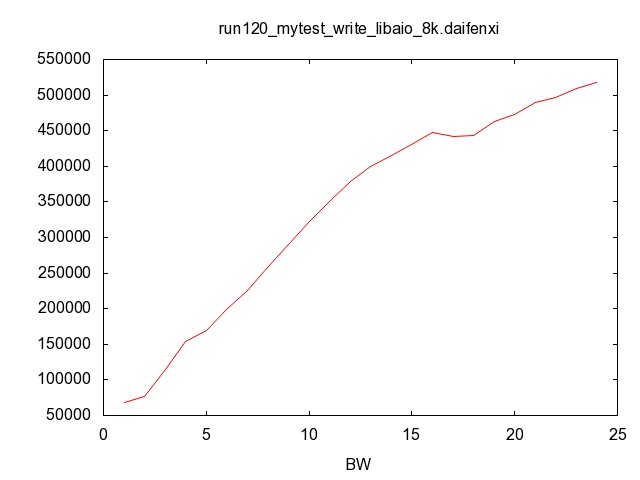
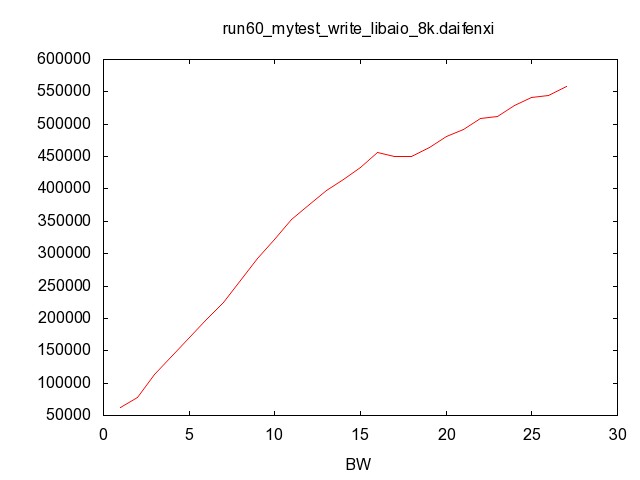
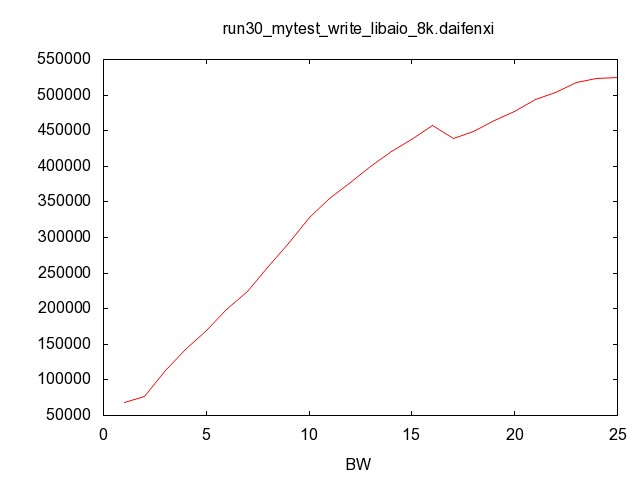
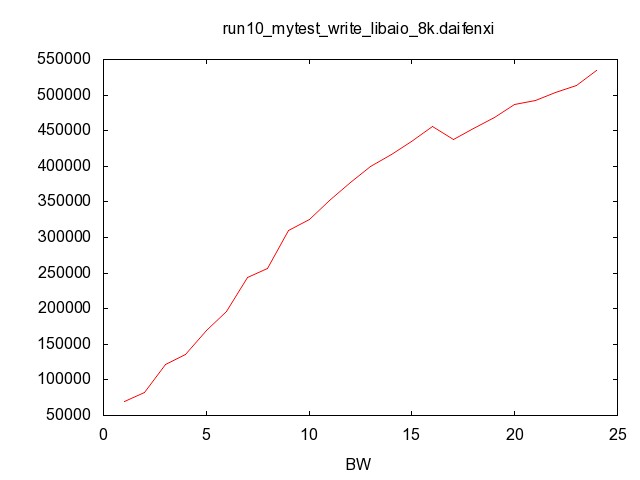
结论：会在numjobs为30左右达到最大值80W左右

##### 5、固定参数：2k、libaio、write，变量：numjobs、测试时间



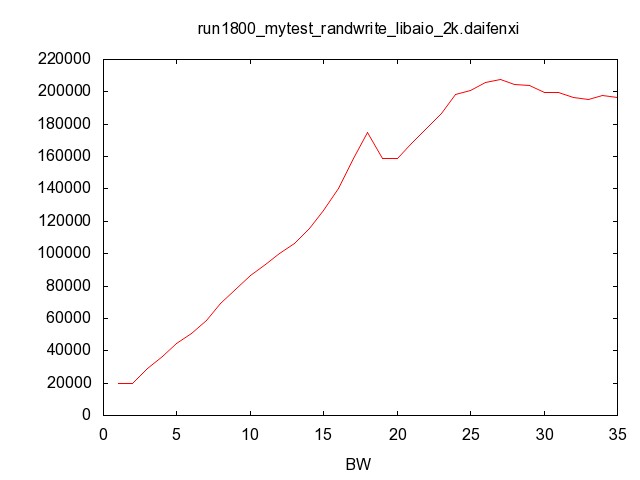
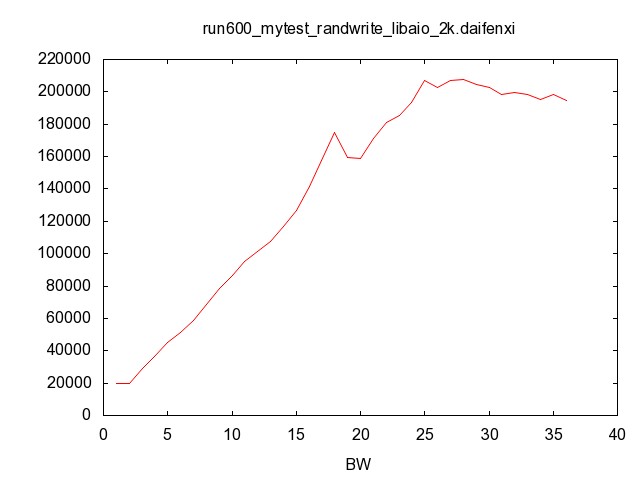
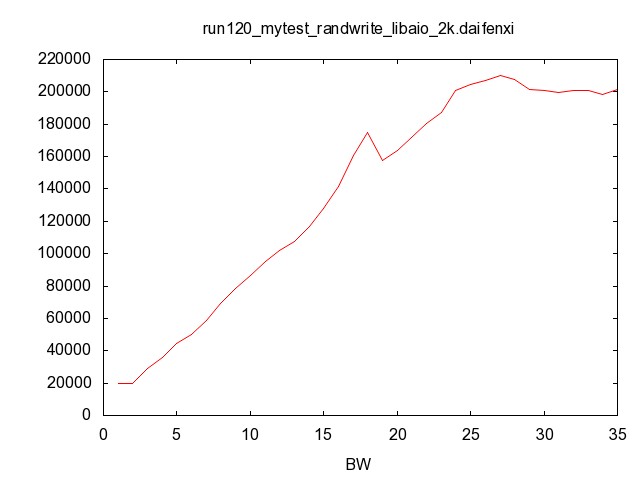
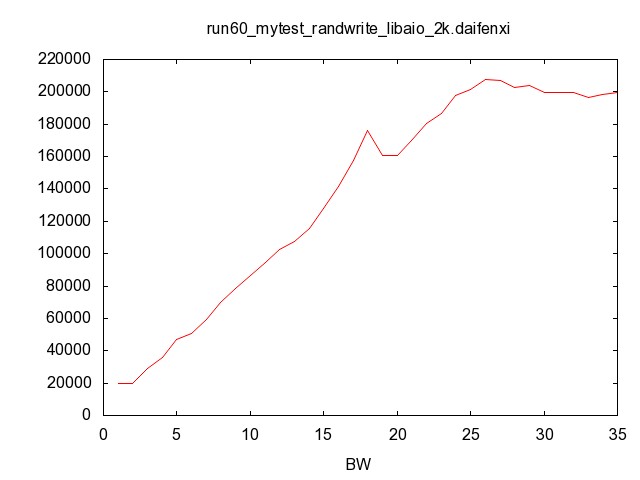
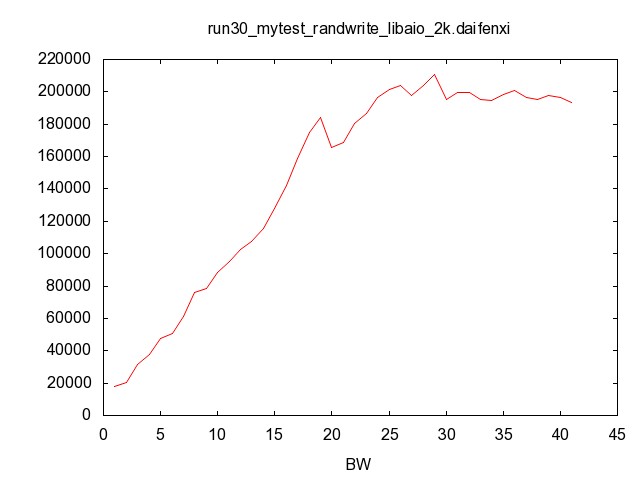
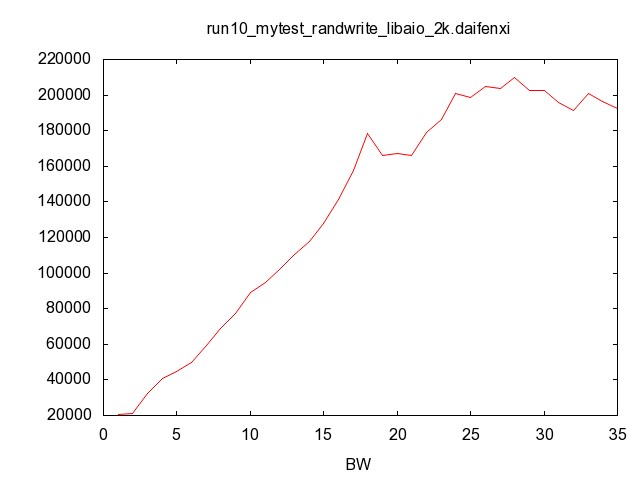
结论：会在numjobs为30左右达到最大值20W左右

##### 6、固定参数：8k、libaio、write，变量：numjobs、测试时间



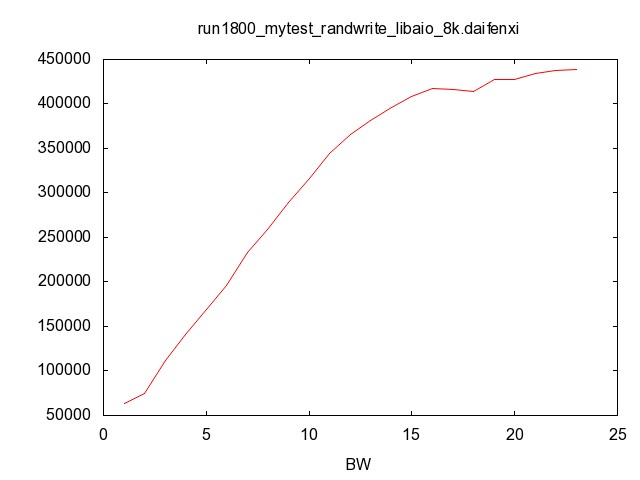
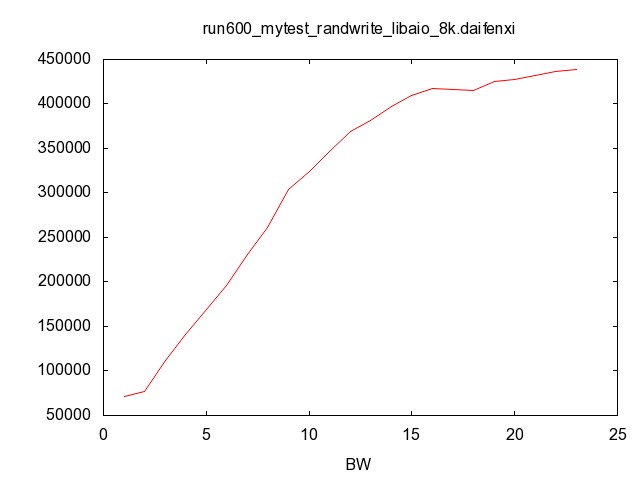
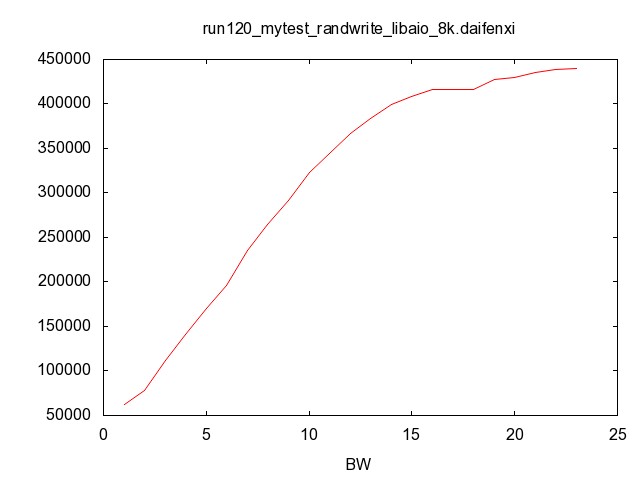
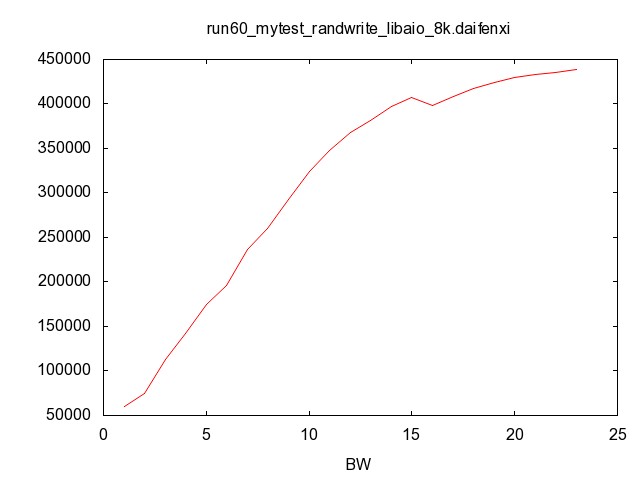
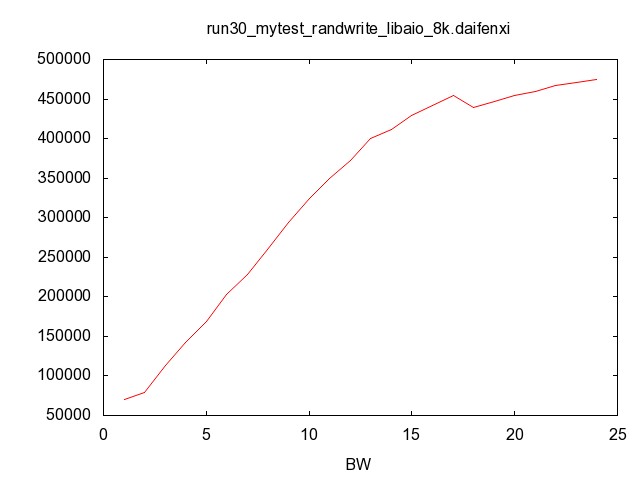
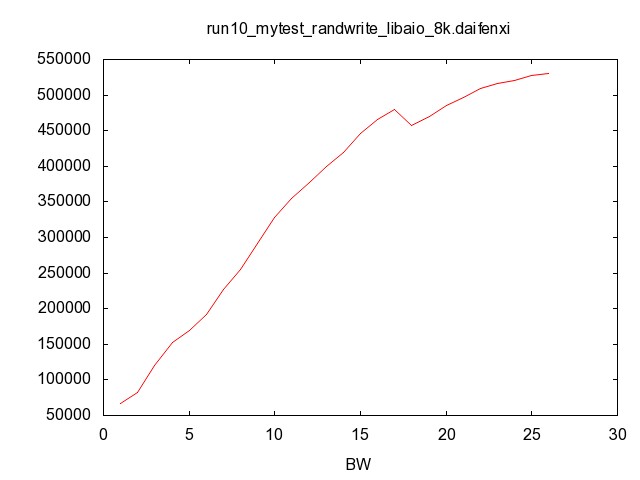
结论：会在numjobs为25左右达到最大值50W左右

##### 7、固定参数：2k、libaio、randwrite，变量：numjobs、测试时间



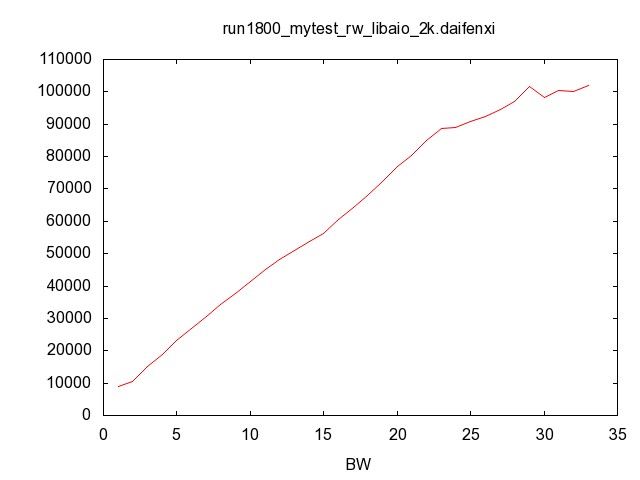
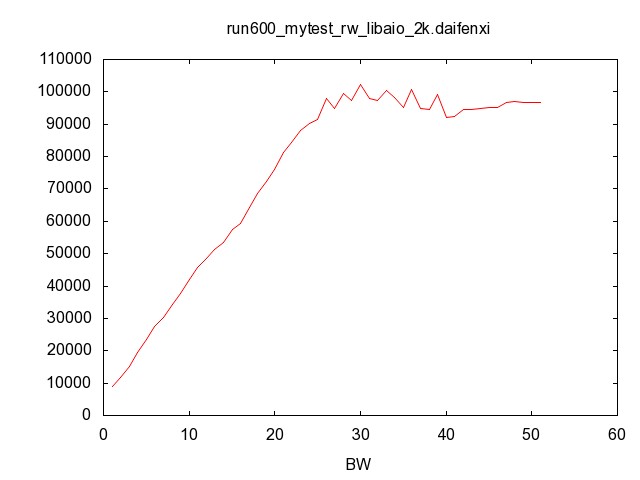
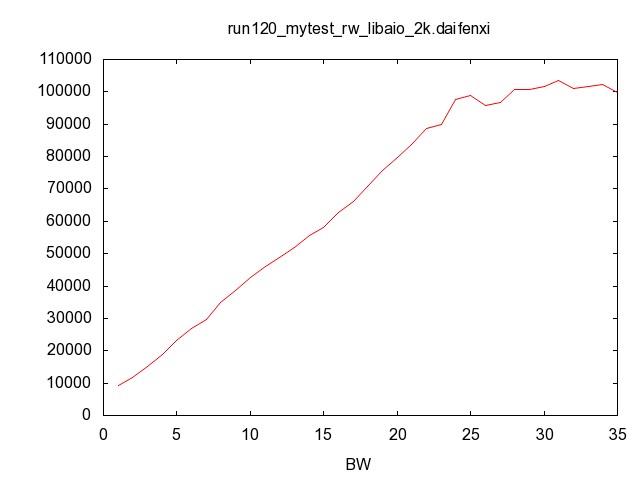
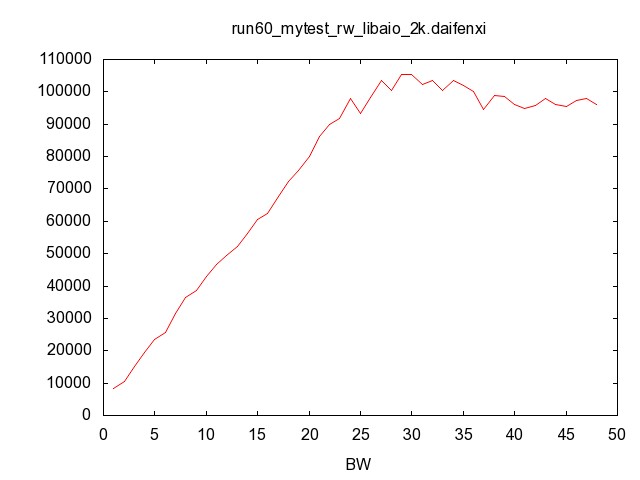
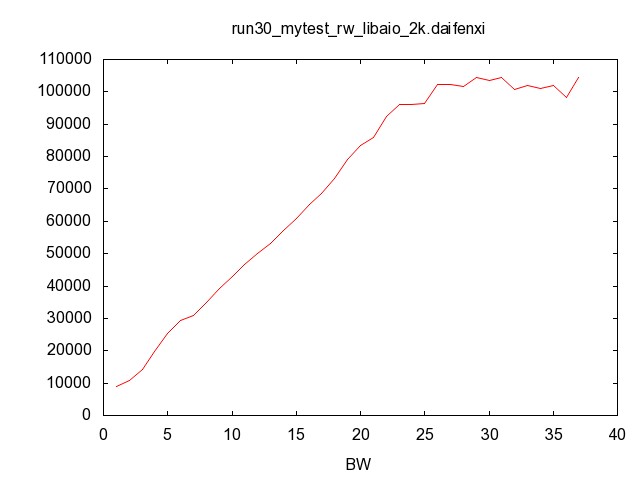
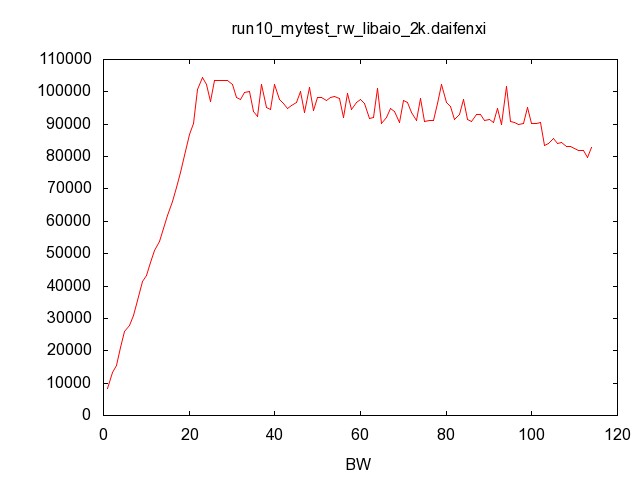
结论：会在numjobs为30左右达到最大值20W左右

##### 8、固定参数：8k、libaio、randwrite，变量：numjobs、测试时间



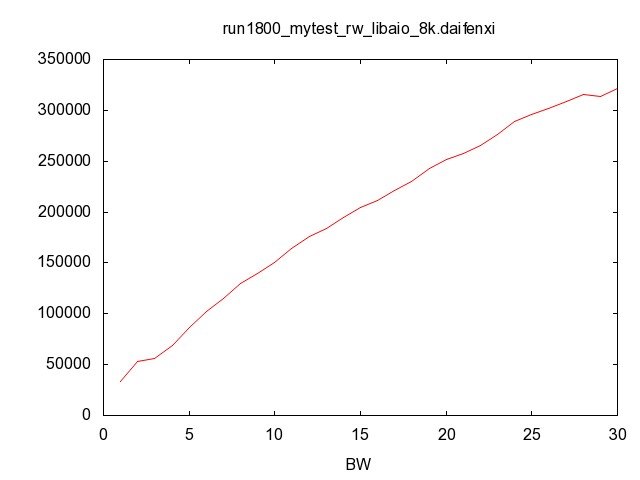
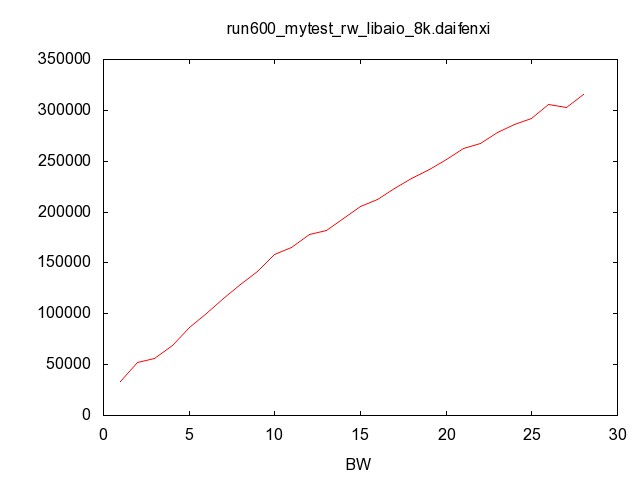
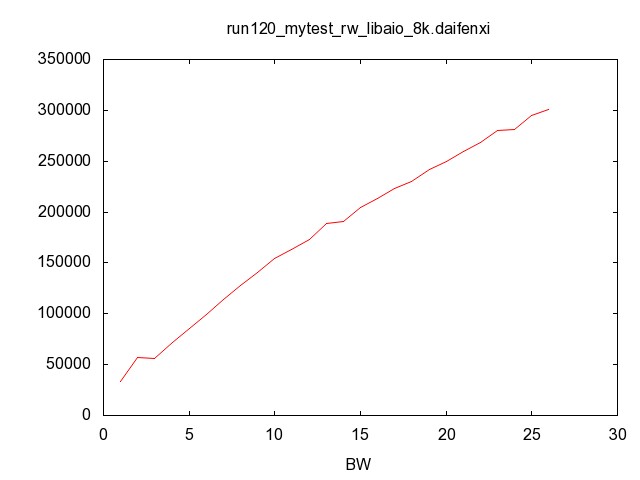
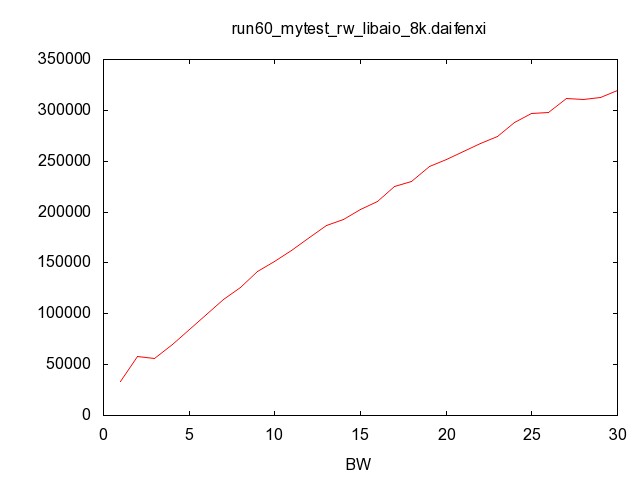
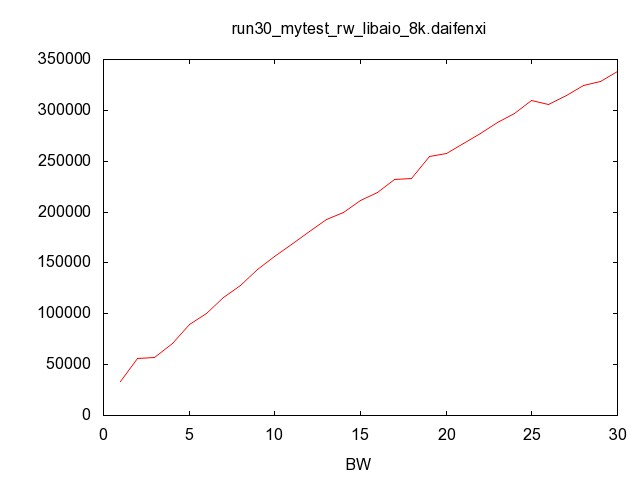
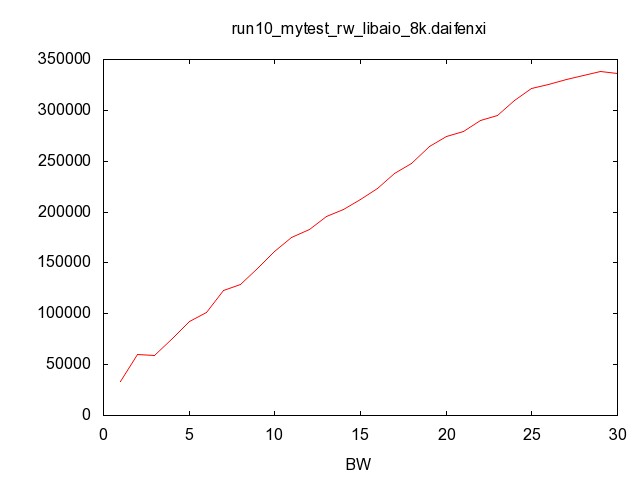
结论：会在numjobs为25左右达到最大值50W左右

##### 9、固定参数：2k、libaio、rw，变量：numjobs、测试时间



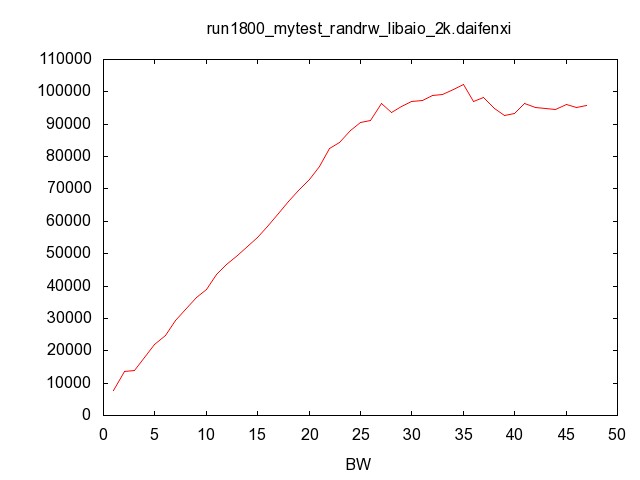
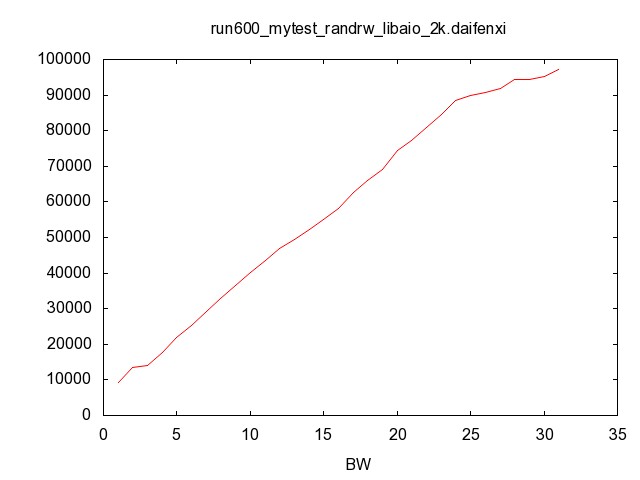
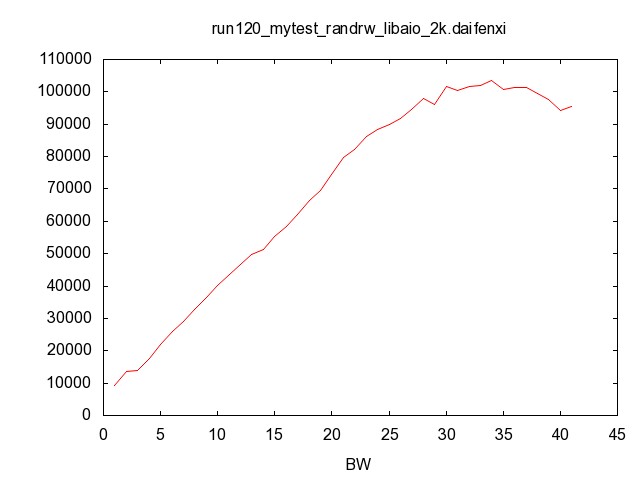
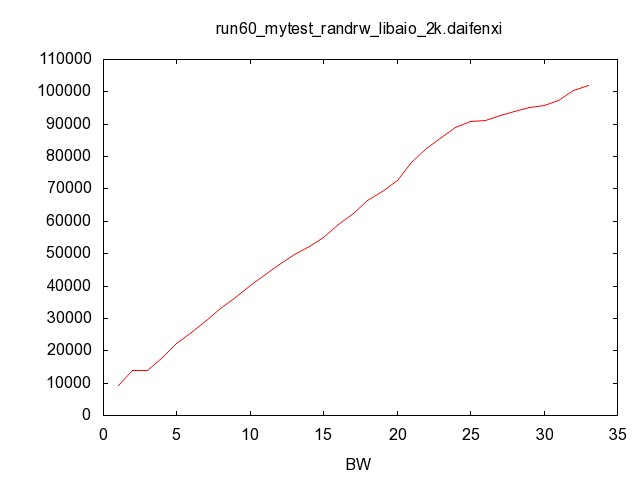
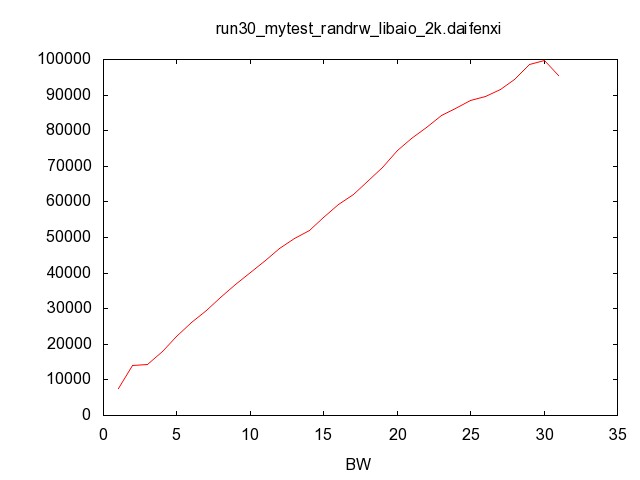
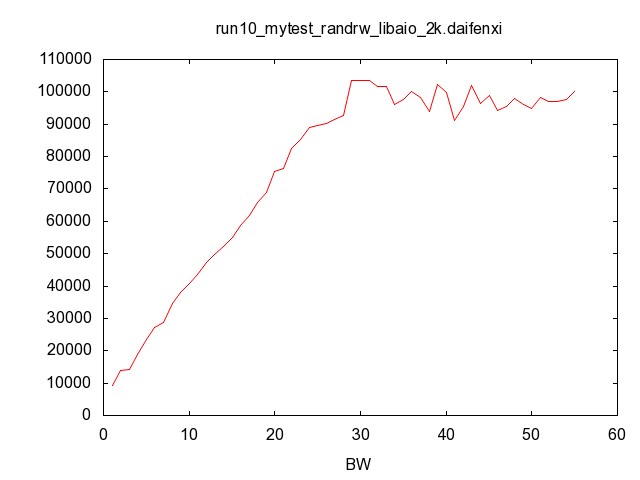
结论：会在numjobs为30左右达到最大值10W左右

##### 10、固定参数：8k、libaio、rw，变量：numjobs、测试时间



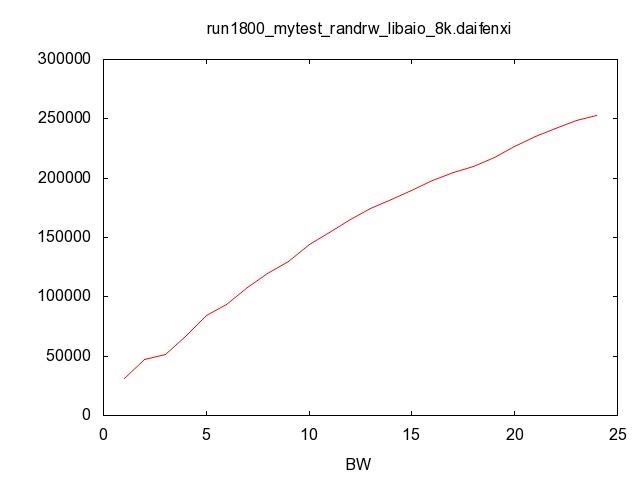
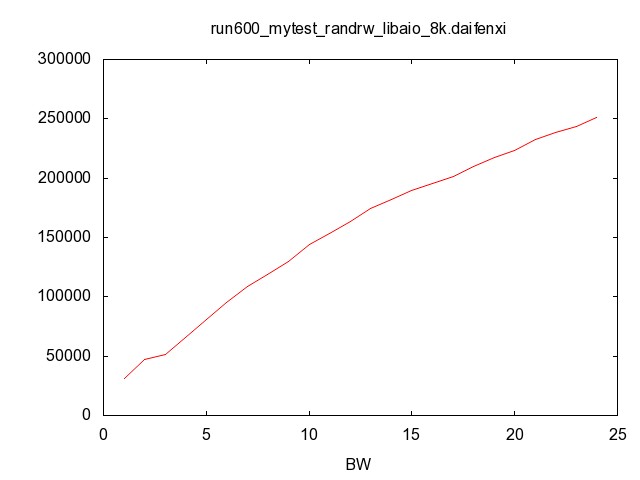
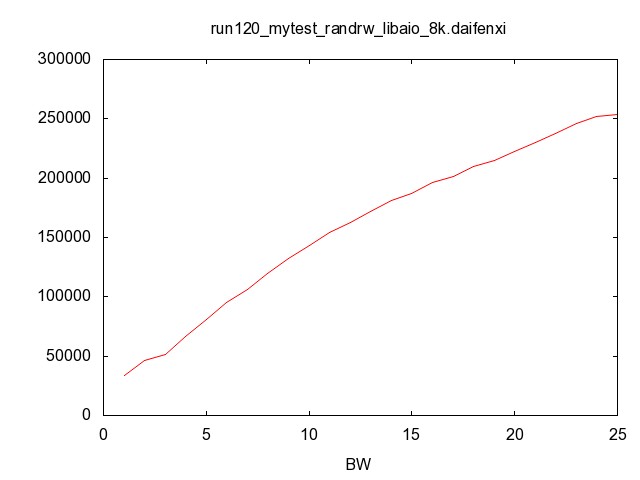
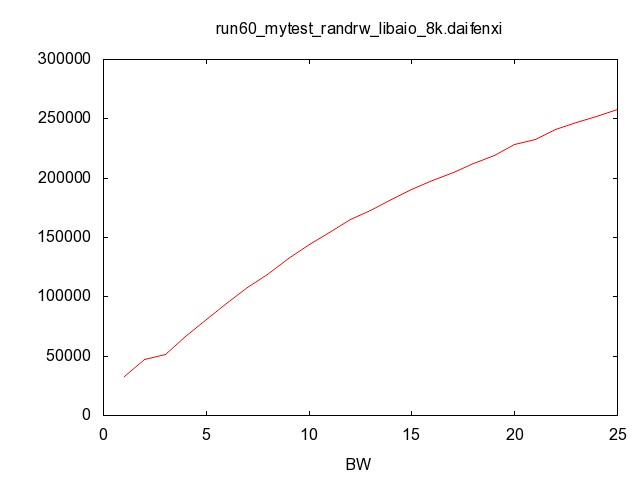
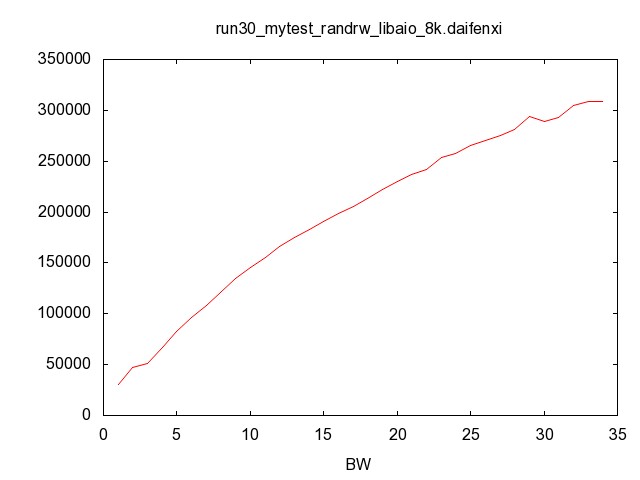
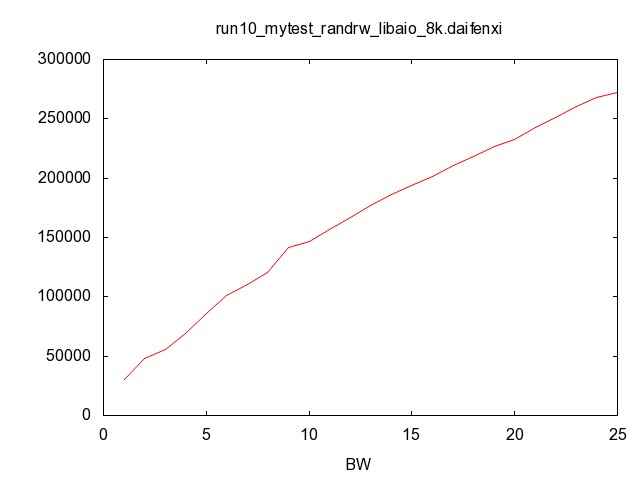
结论：会在numjobs为30左右达到最大值35W左右

##### 11、固定参数：2k、libaio、randrw，变量：numjobs、测试时间



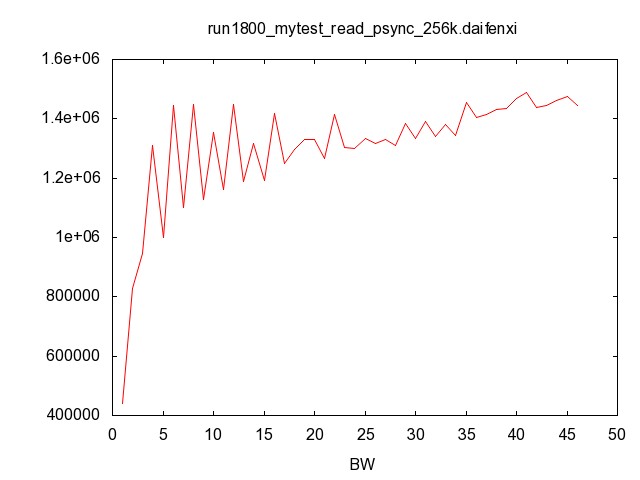
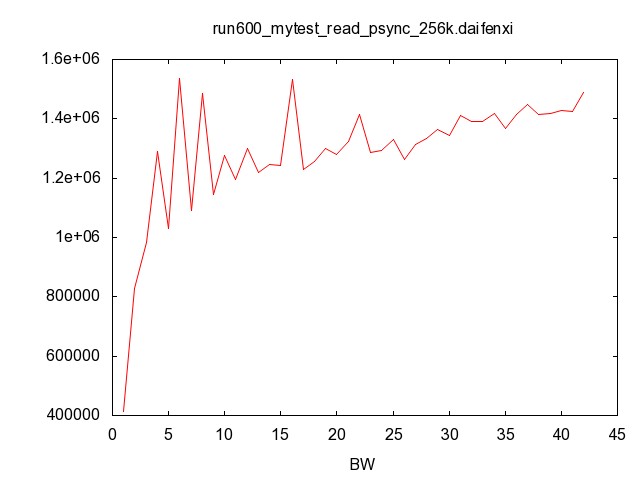
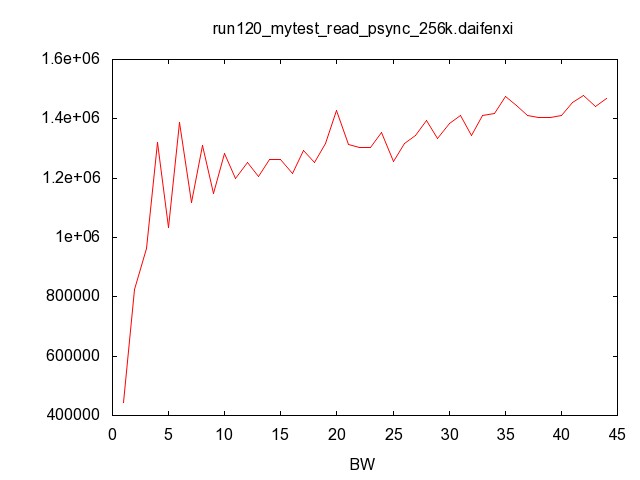
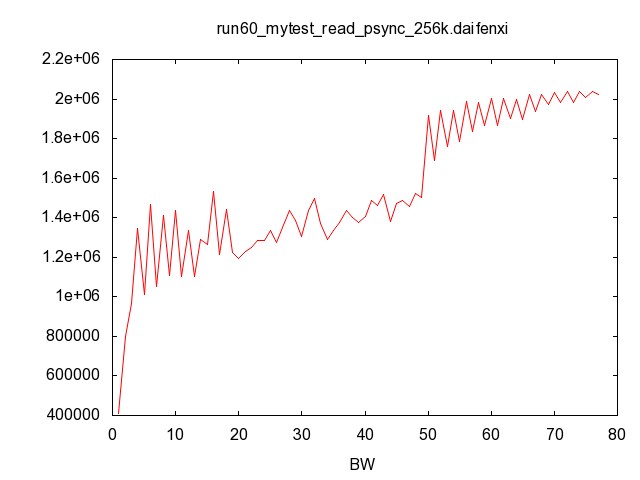
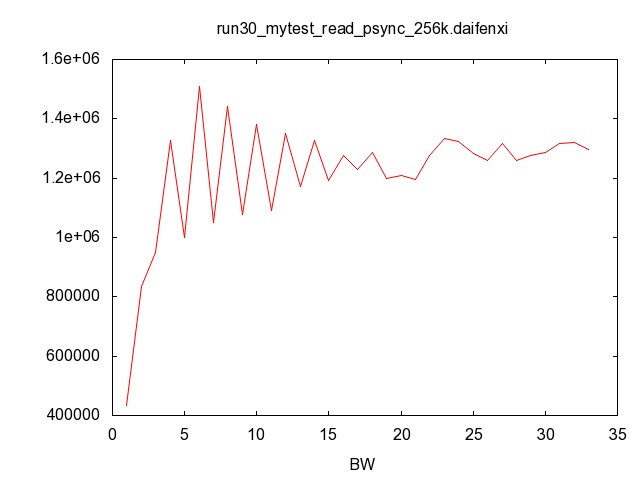
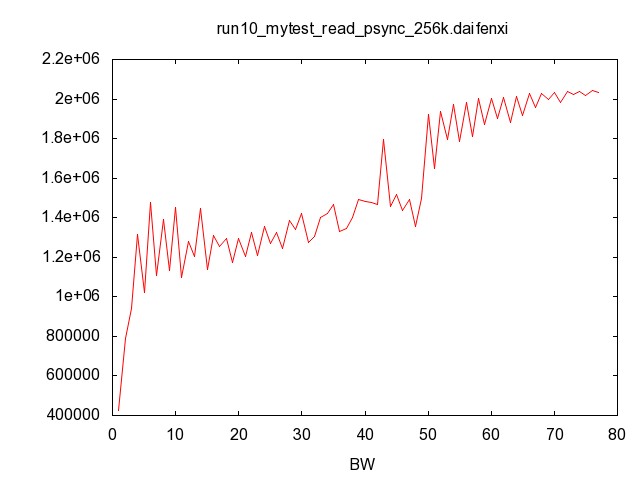
结论：会在numjobs为30左右达到最大值10W左右

##### 12、固定参数：8k、libaio、randrw，变量：numjobs、测试时间



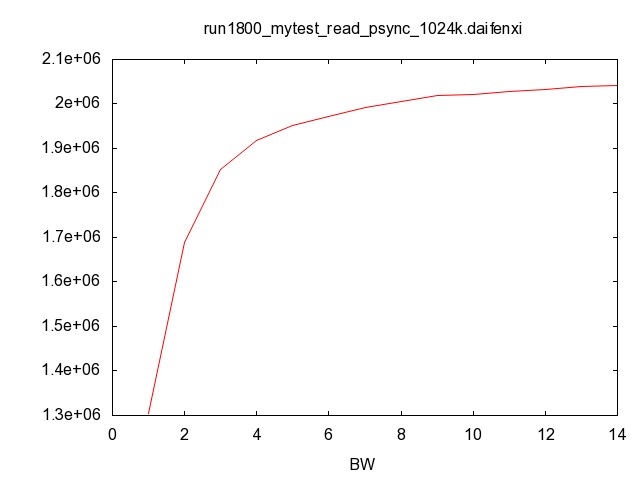
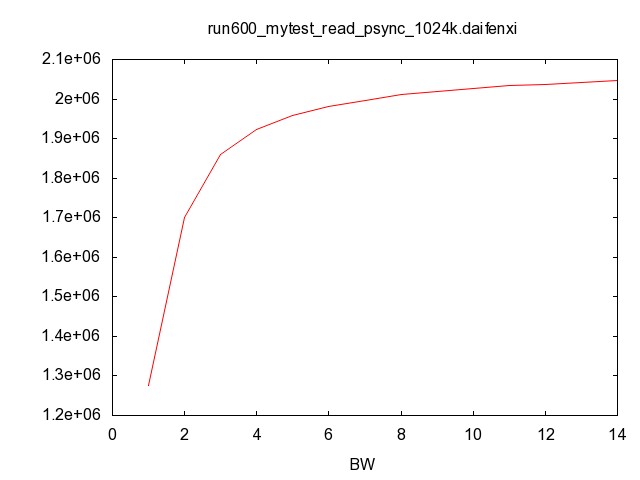
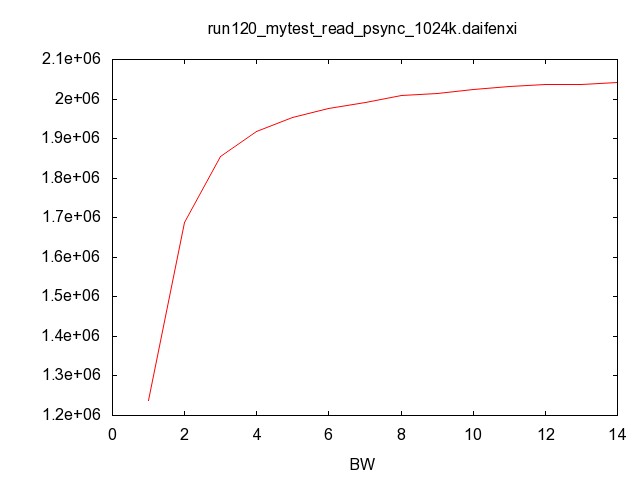
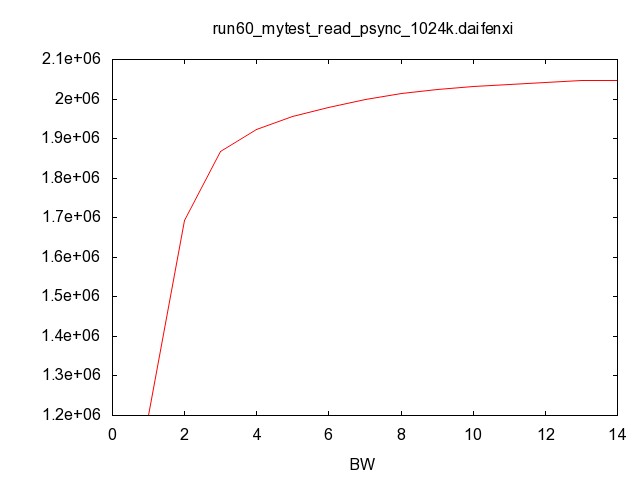
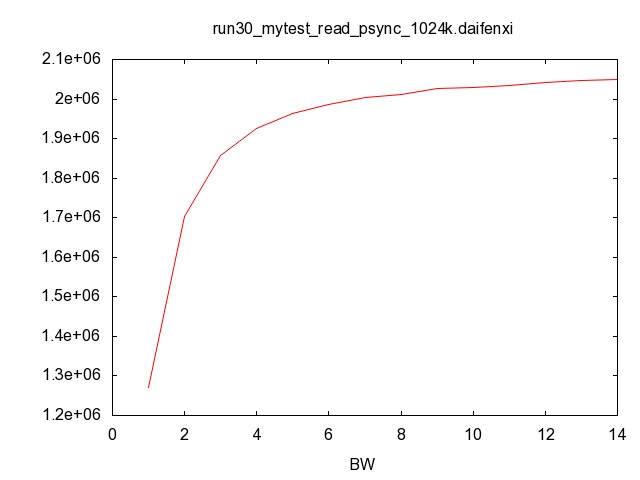
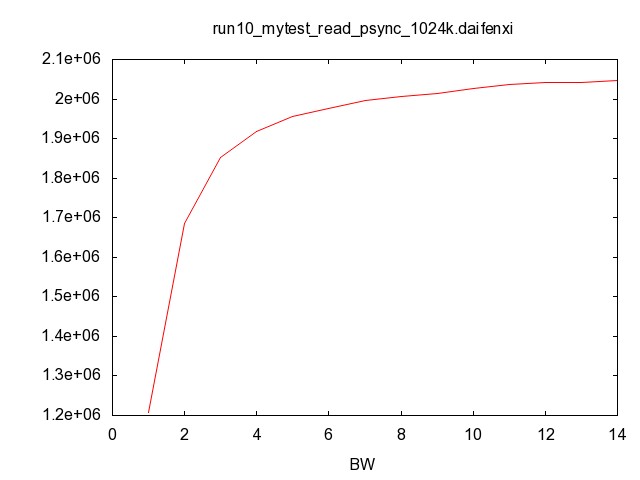
结论：会在numjobs为25左右达到最大值25W左右

##### 固定参数：256k、psync、read，变量：numjobs、测试时间



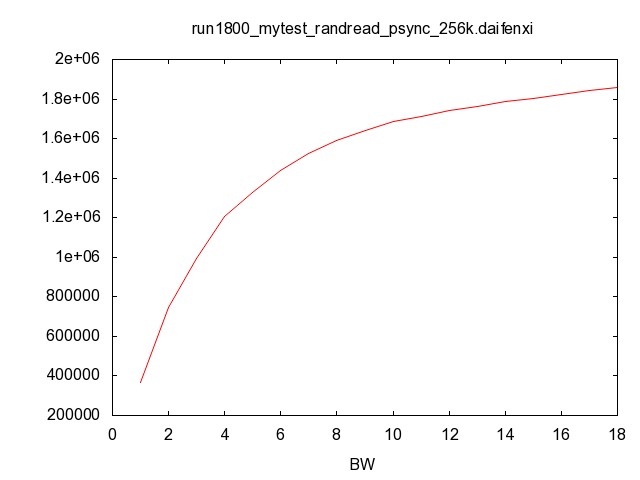
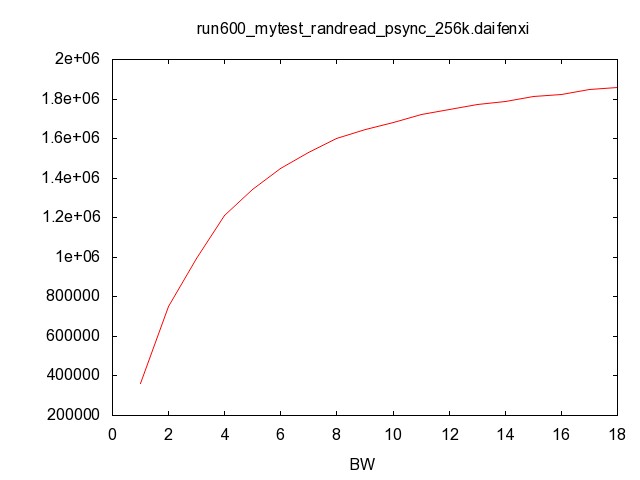
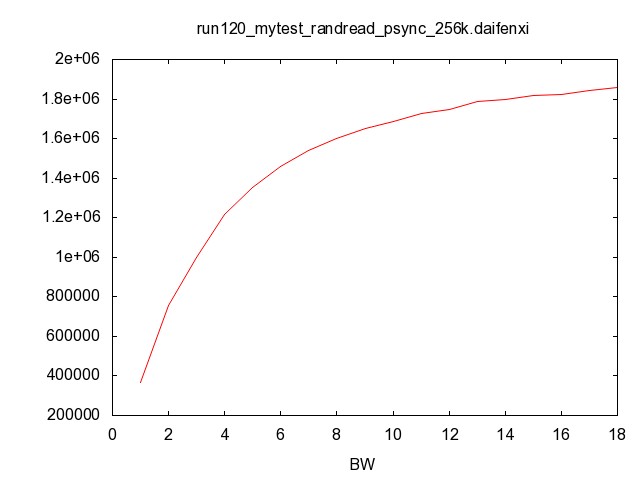
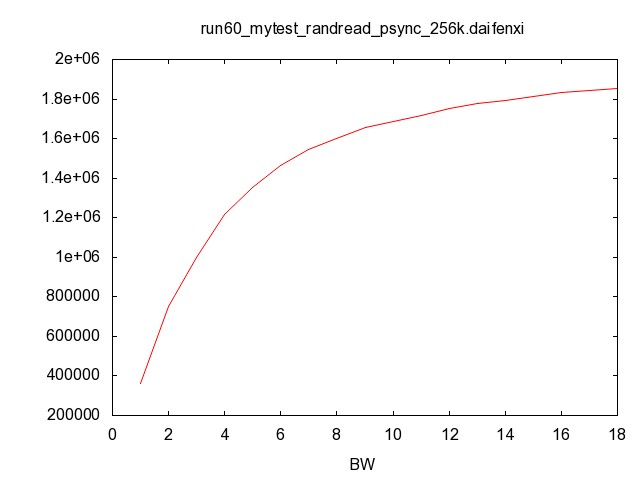
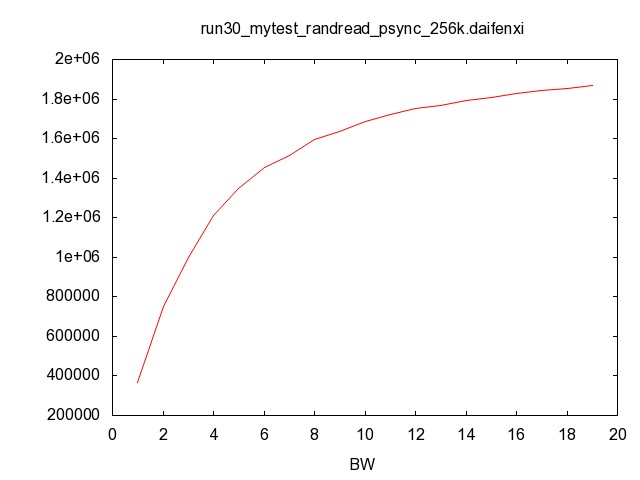
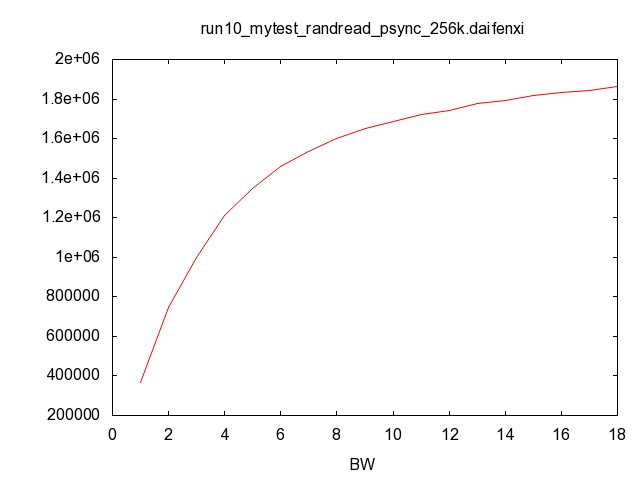
结论：从简单曲线看，是25左右时，达到最大值140W，run10和run60的在25到50去建波动较大，不太符合性能变化规律，而且到50左右有个激增，推论是存储被其他程序占用导致，因为块越大，应该获得平滑曲线的速度越快，所以推测是测试时有其他程序占用，另外根据下面的测试结果可以看出这个结论

##### 固定参数：1024k、psync、read，变量：numjobs、测试时间



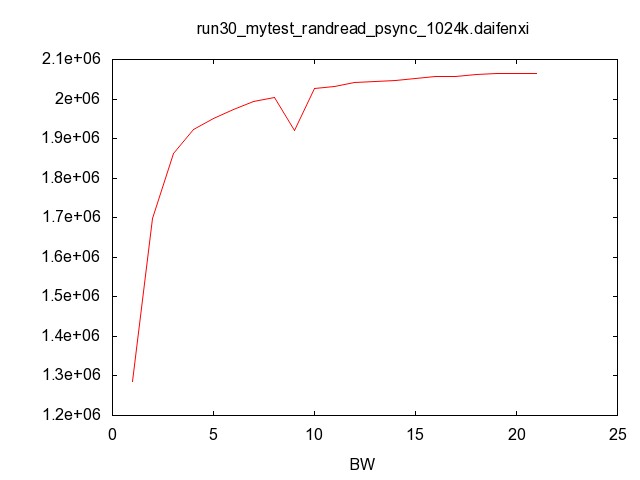
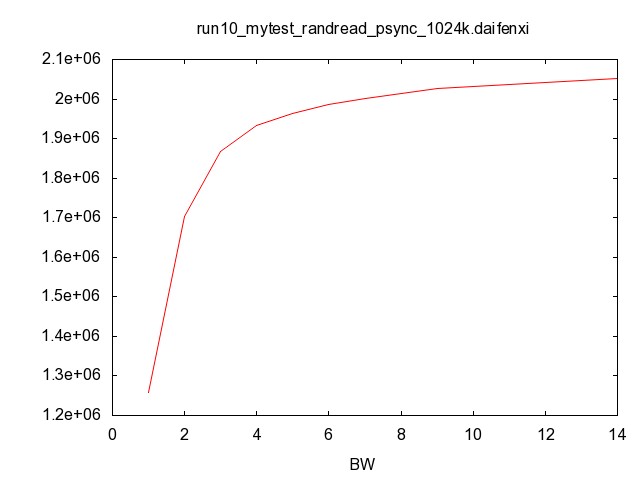
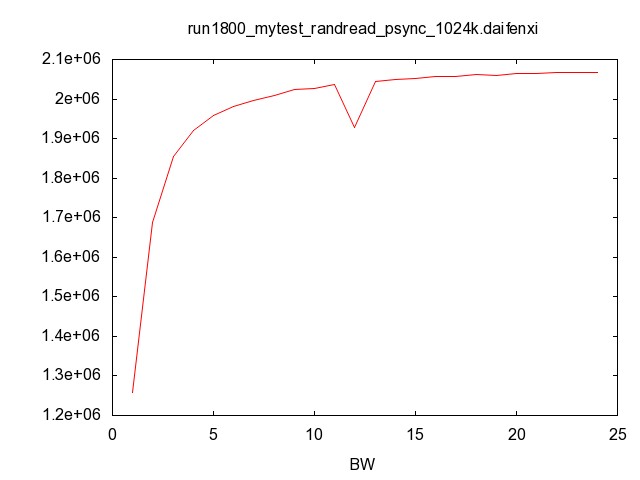
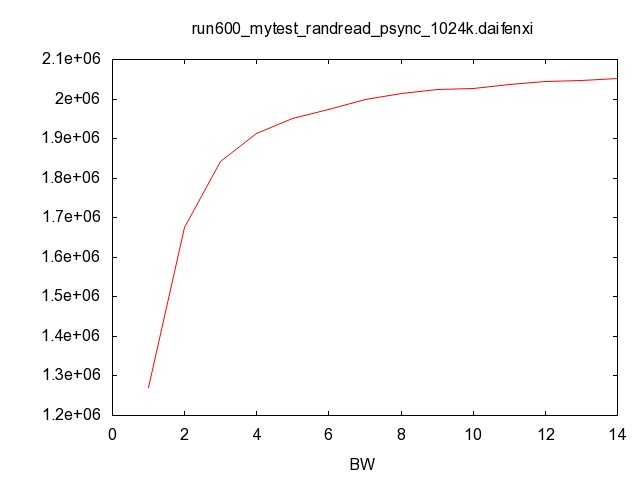
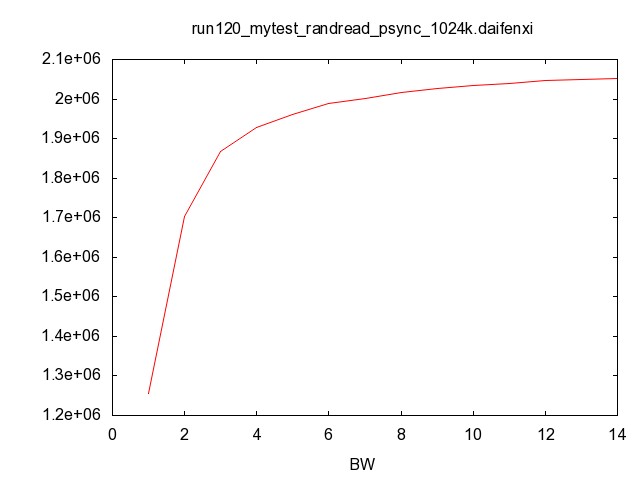
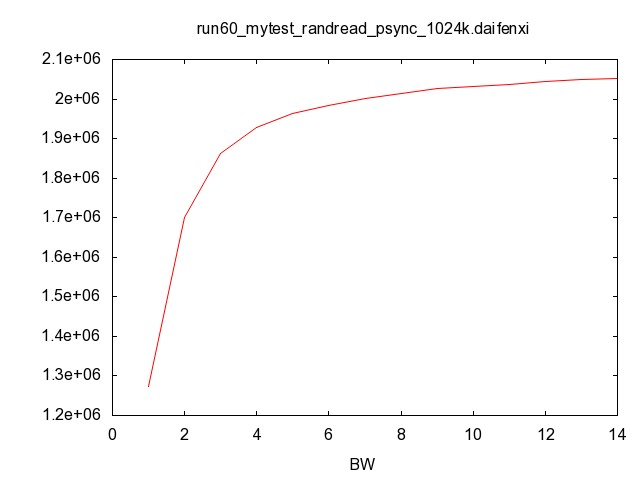
结论：会在numjobs为10左右达到最大值200W左右

##### 固定参数：256k、psync、randread，变量：numjobs、测试时间



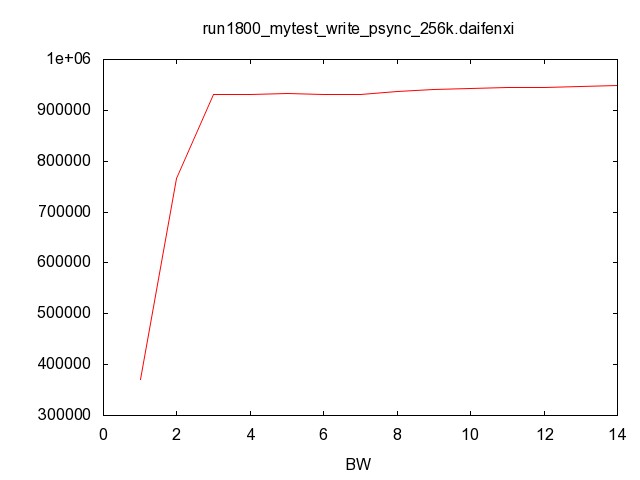
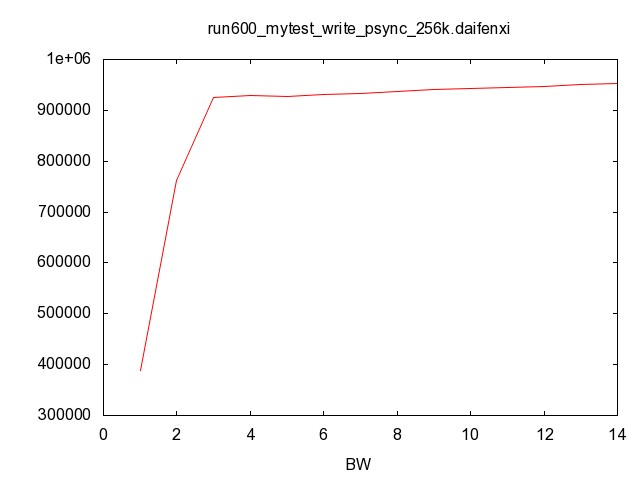
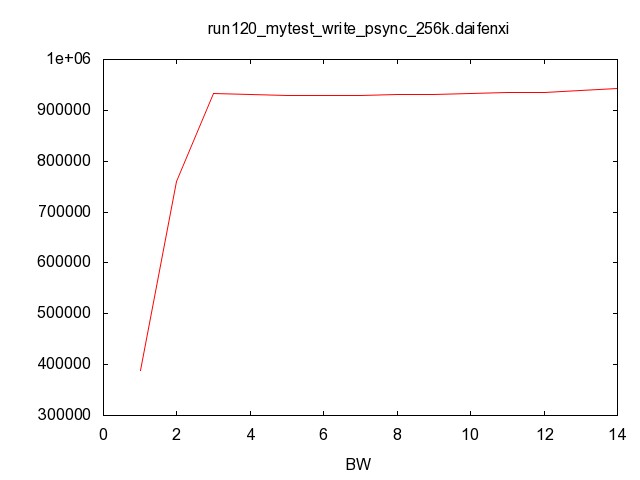
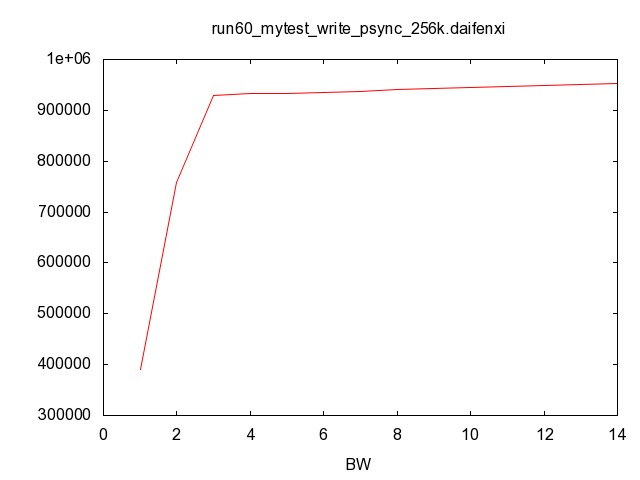
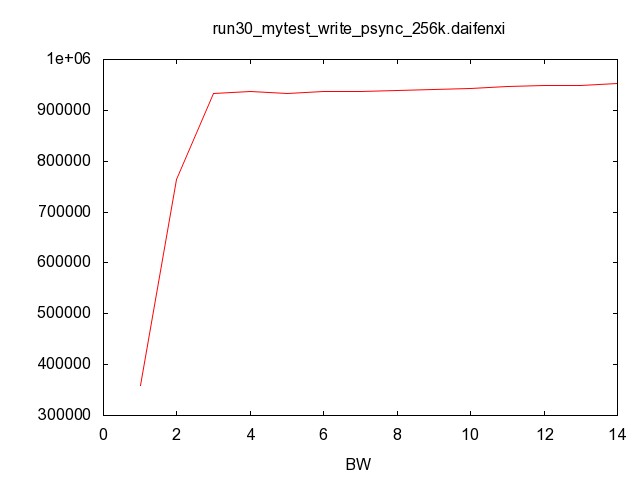
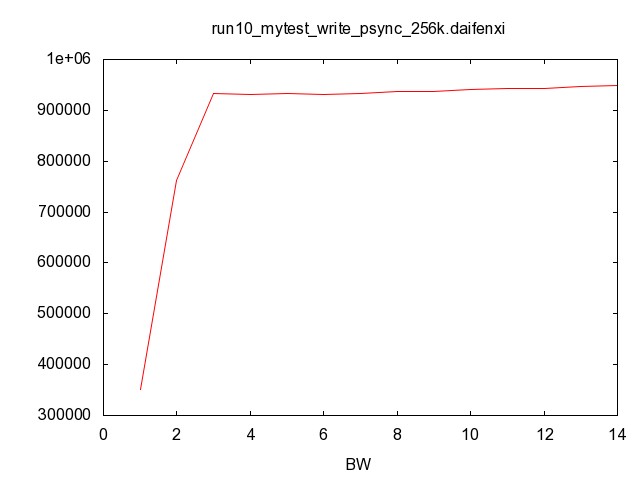
结论：会在numjobs为12左右达到最大值180w左右，从这个可以看出read测试时是有程序不均匀使用存储

##### 固定参数：1024k、psync、randread，变量：numjobs、测试时间



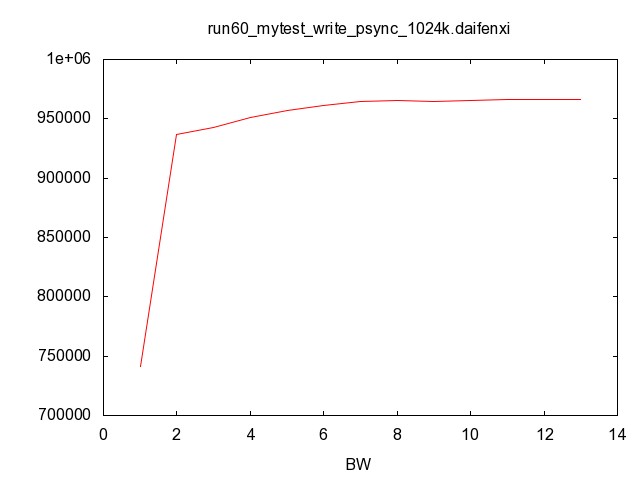
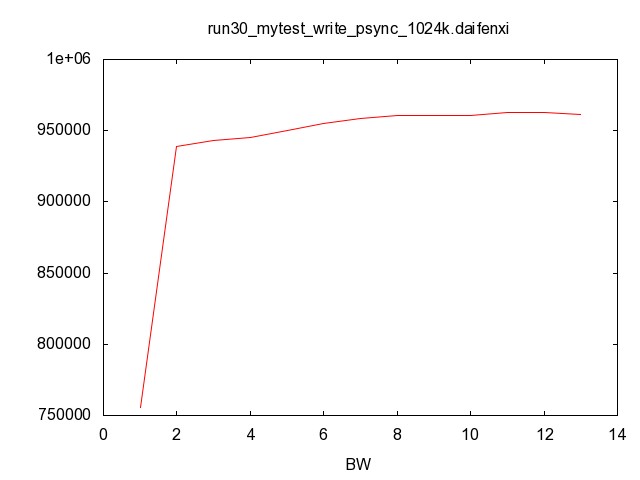
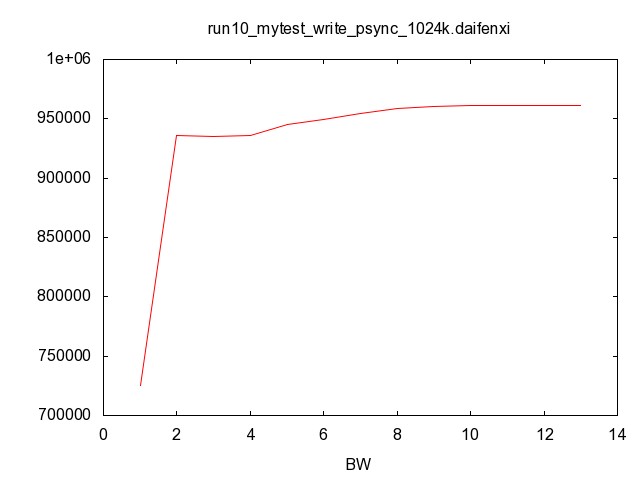
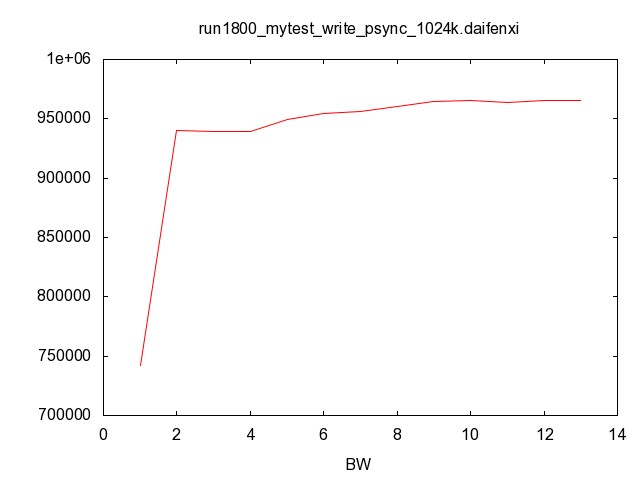
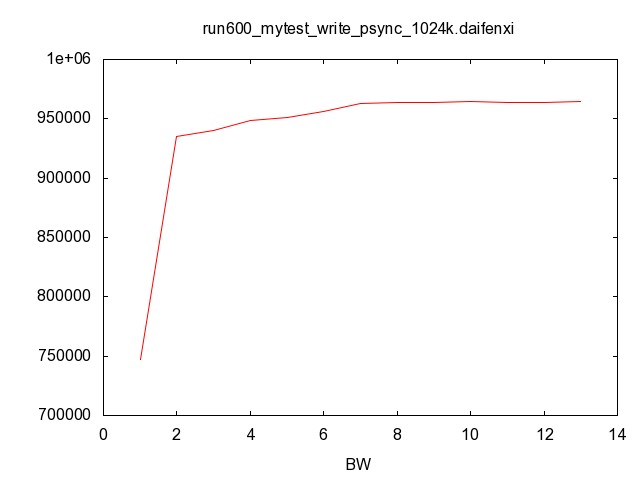
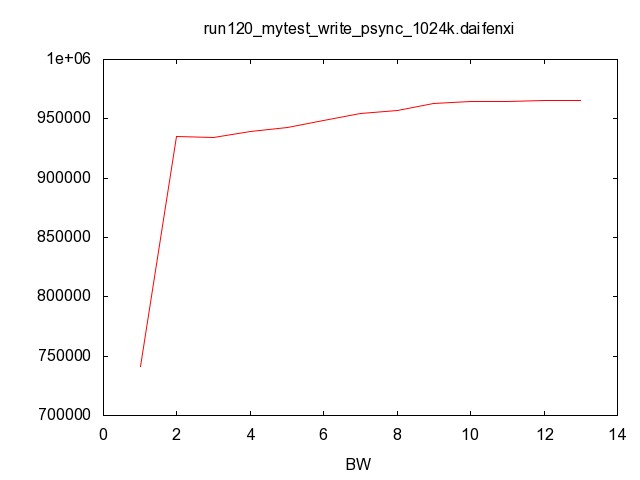
结论：会在numjobs为10左右达到最大值100W左右

##### 固定参数：256k、psync、write，变量：numjobs、测试时间



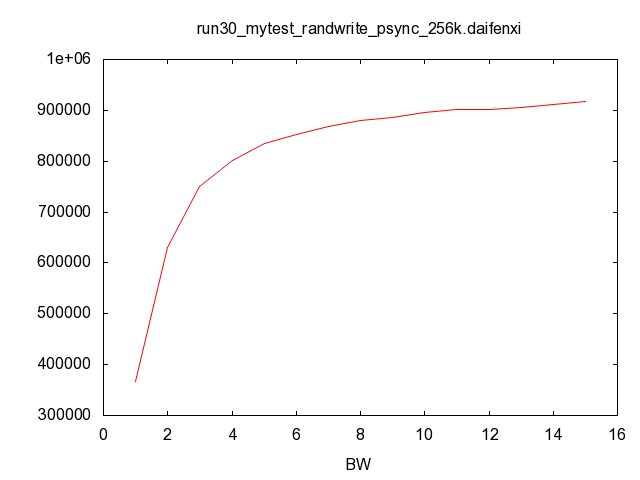
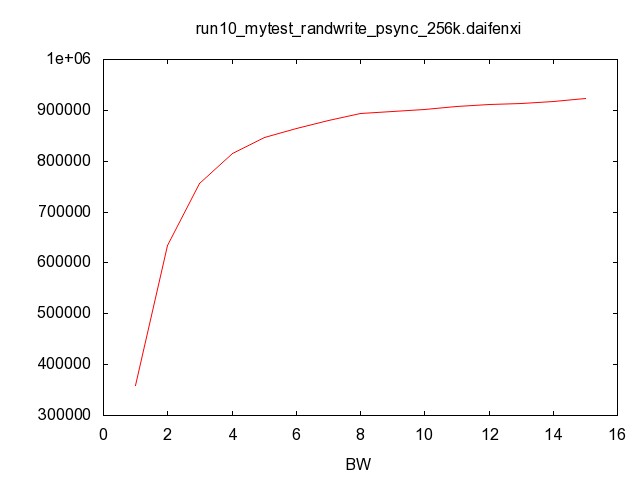
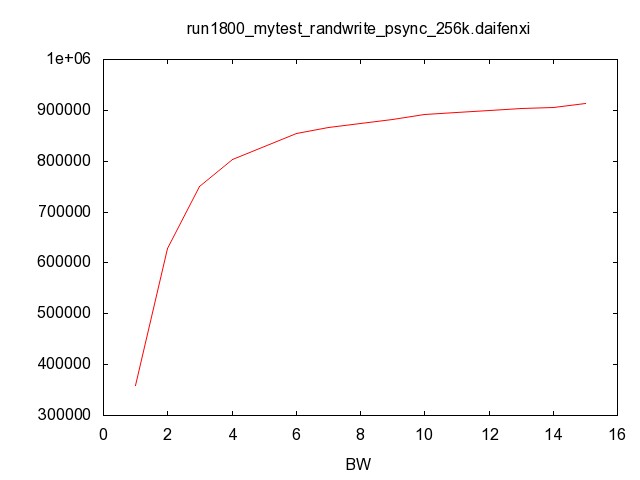
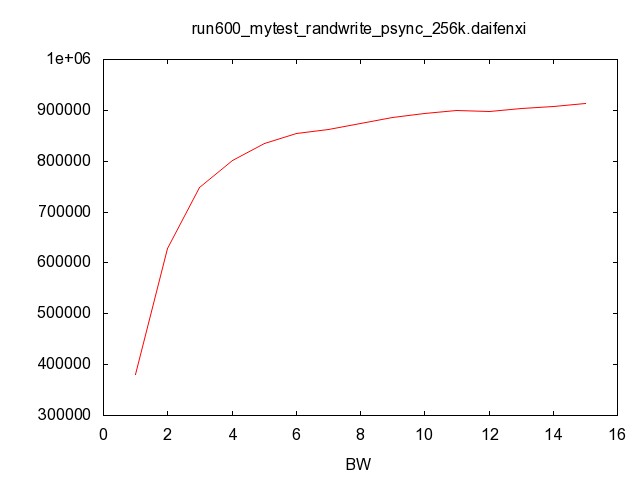
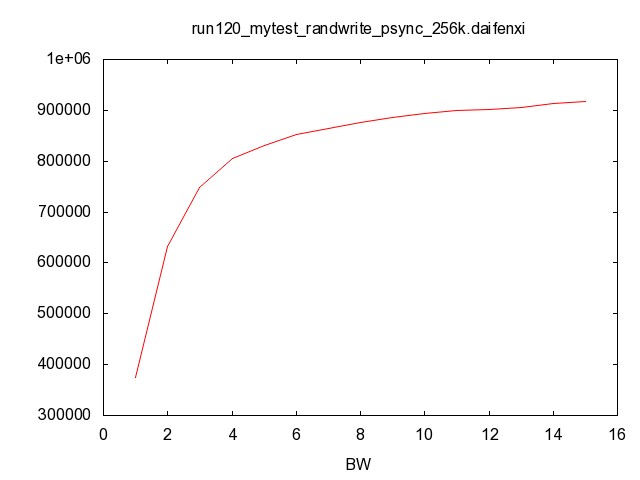
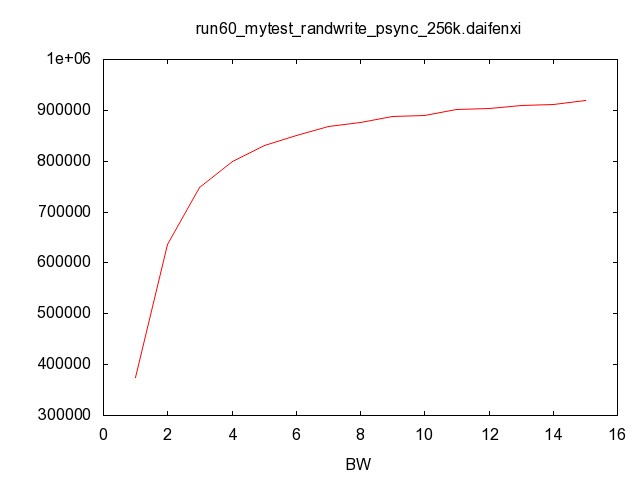
结论：会在numjobs为3左右达到最大值90W左右

##### 固定参数：1024k、psync、write，变量：numjobs、测试时间



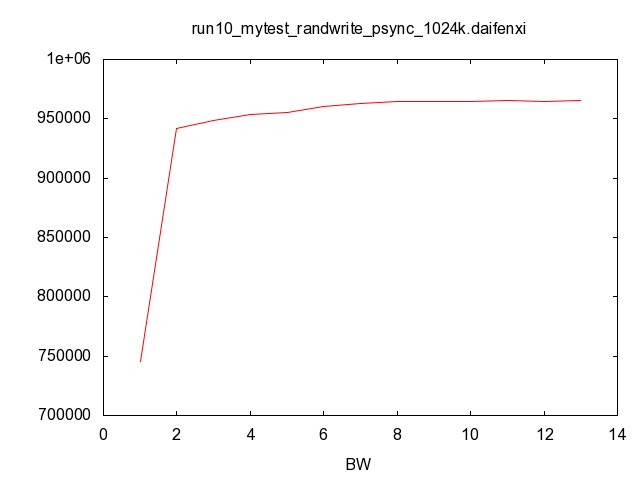
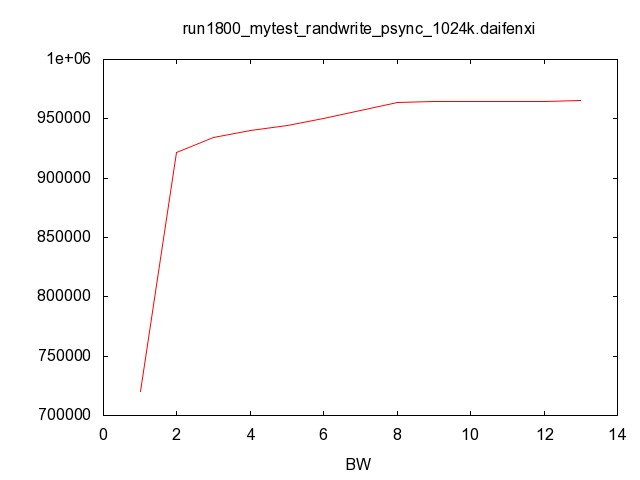
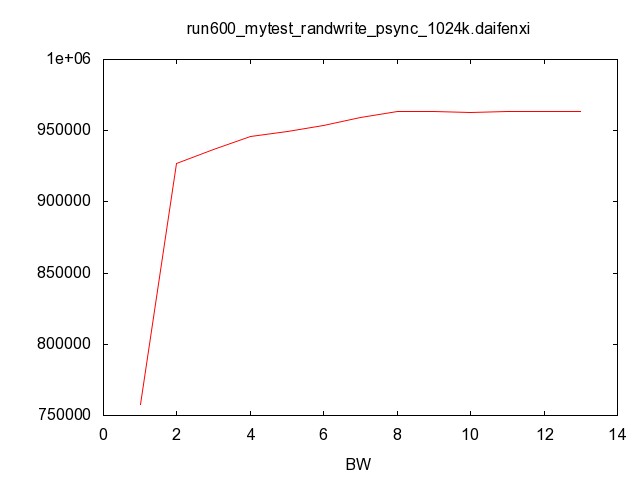
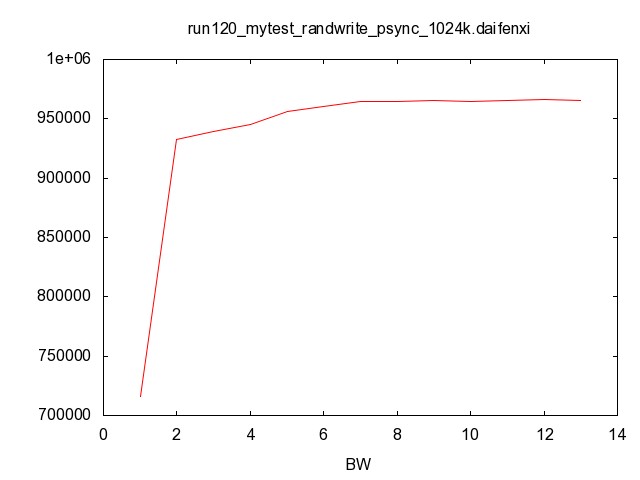
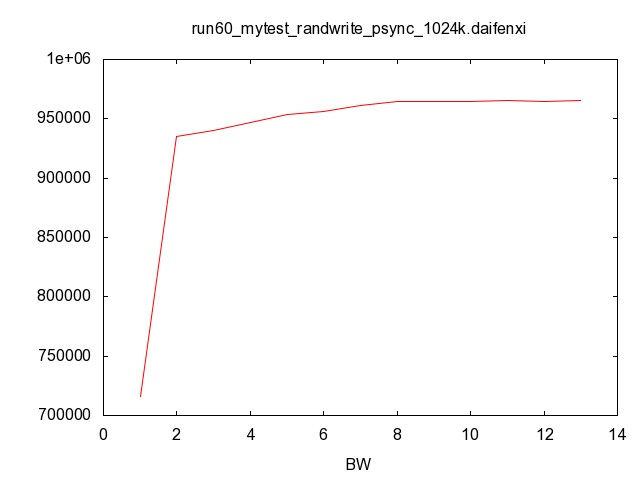
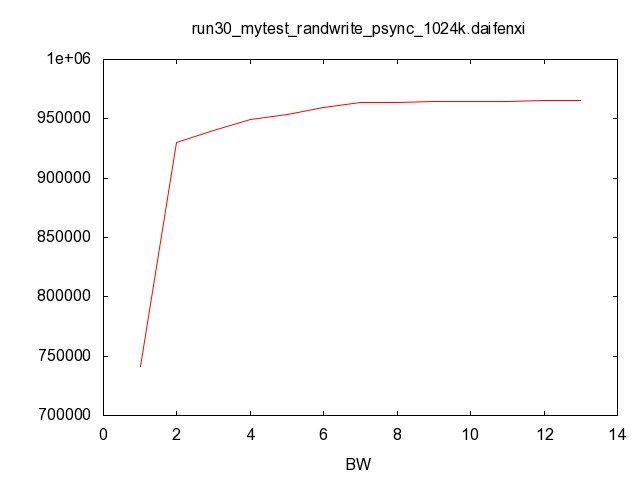
结论：会在numjobs为2左右达到最大值90W左右

##### 固定参数：256k、psync、randwrite，变量：numjobs、测试时间



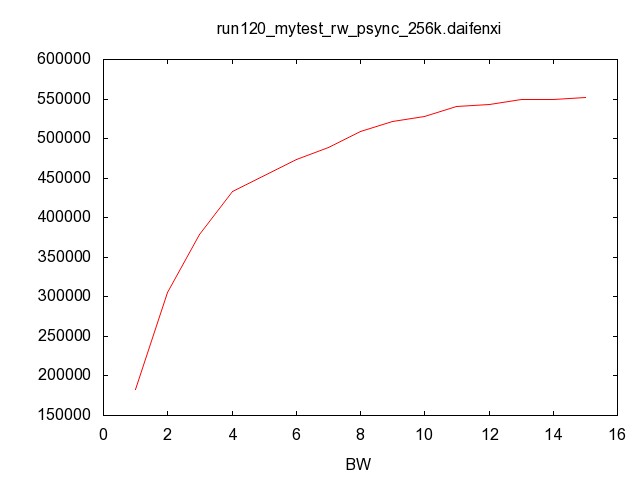
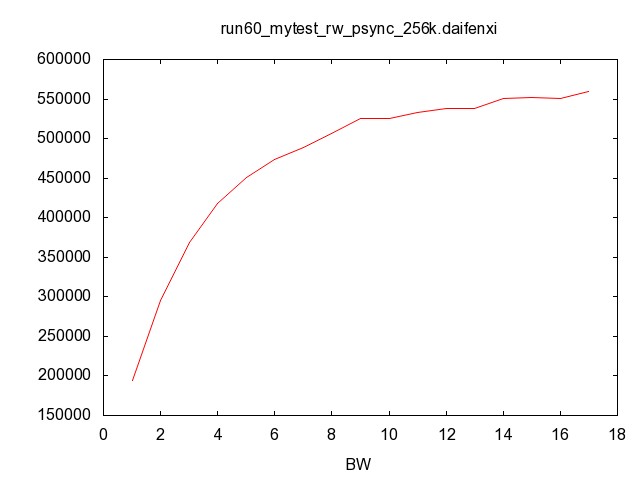
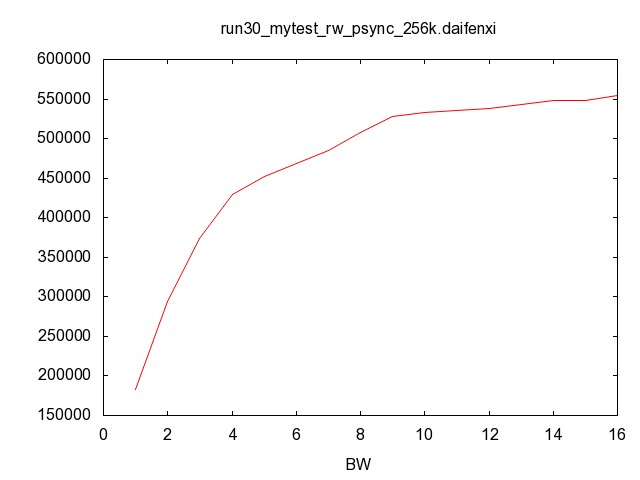
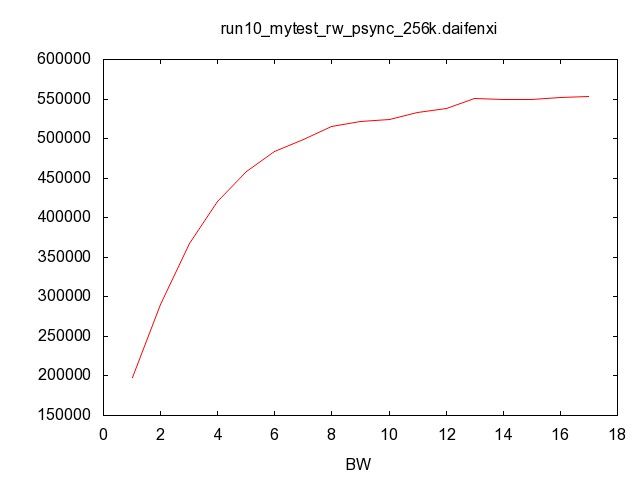
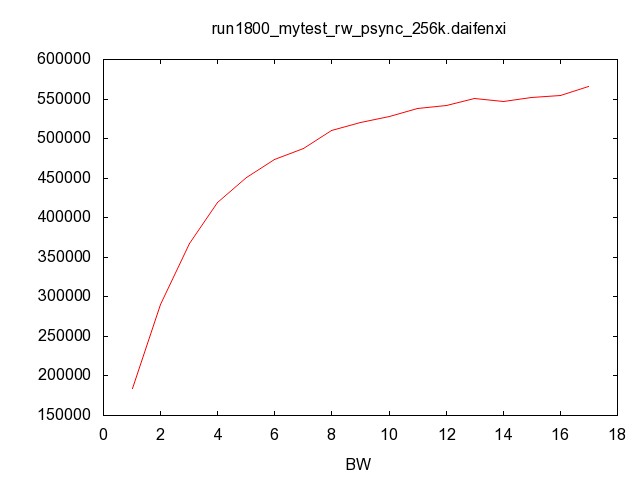
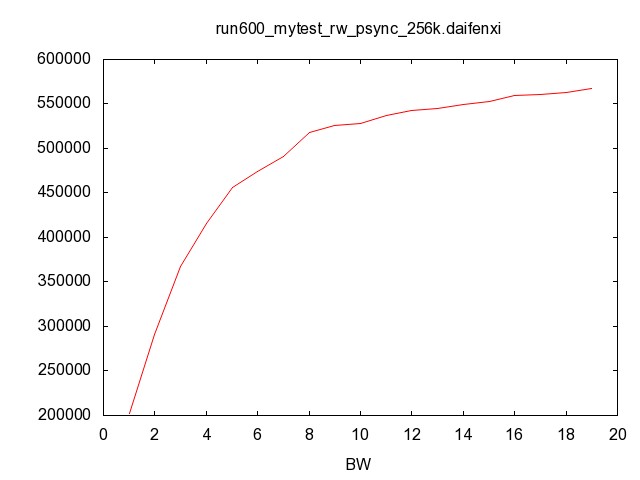
结论：会在numjobs为3左右达到最大值90W左右

##### 固定参数：1024k、psync、randwrite，变量：numjobs、测试时间



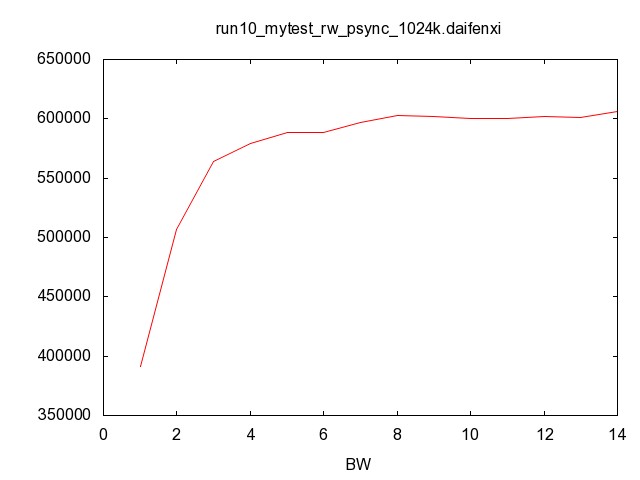
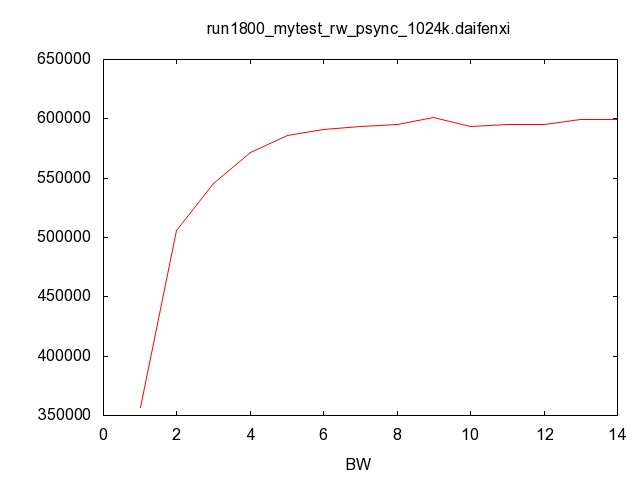
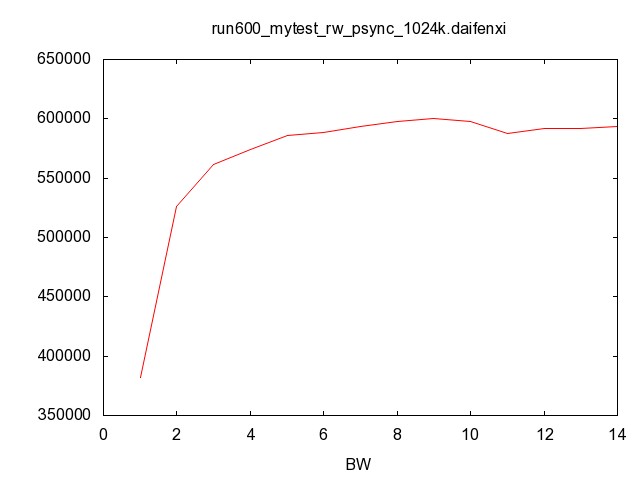
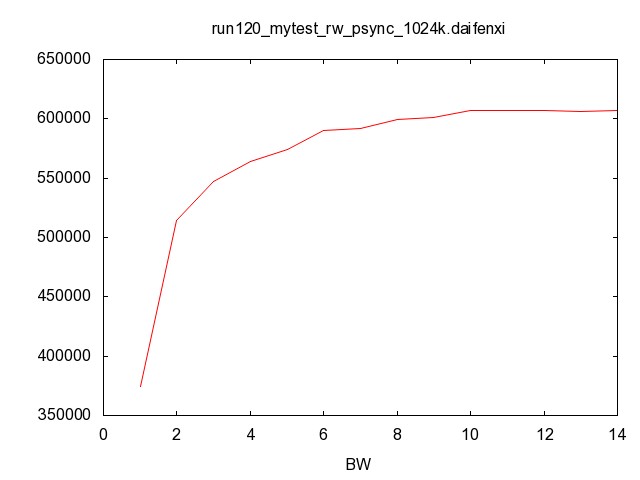
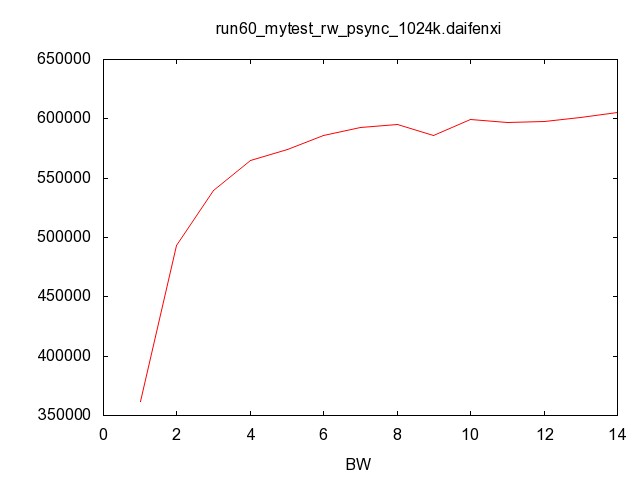
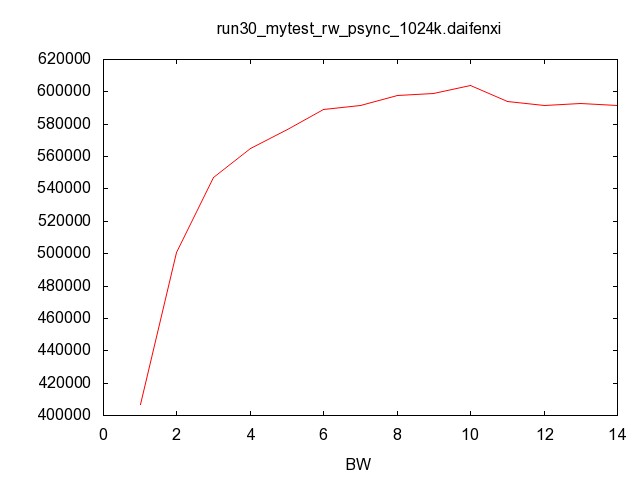
结论：会在numjobs为2左右达到最大值950W左右

##### 固定参数：256k、psync、rw，变量：numjobs、测试时间



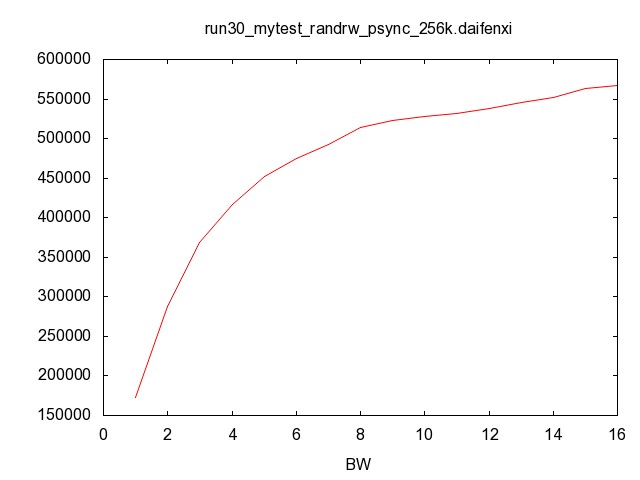
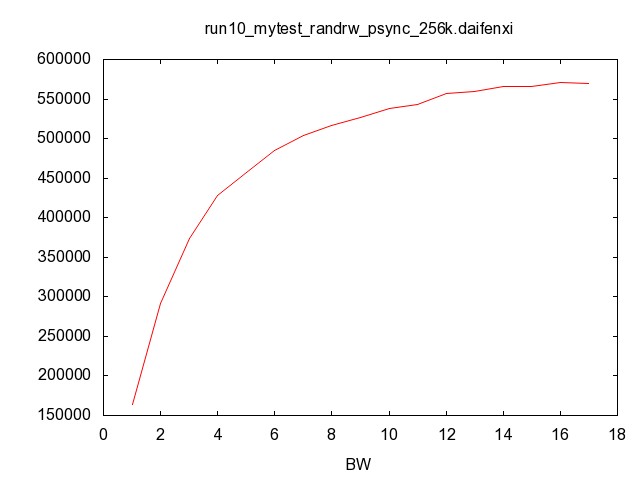
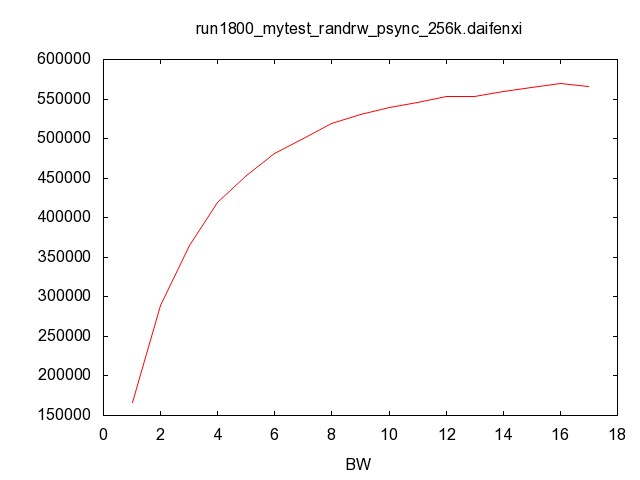
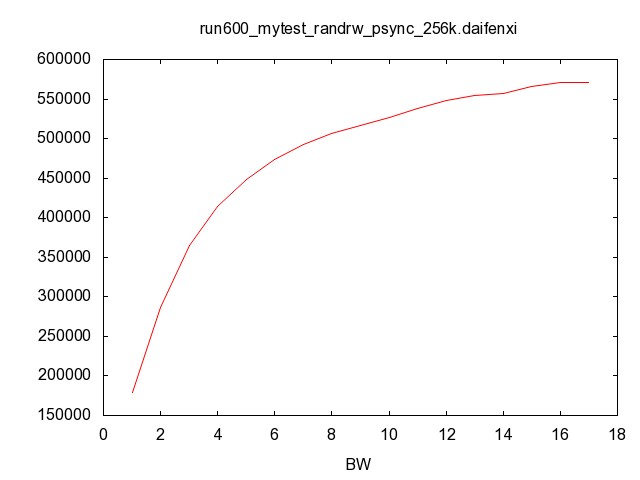
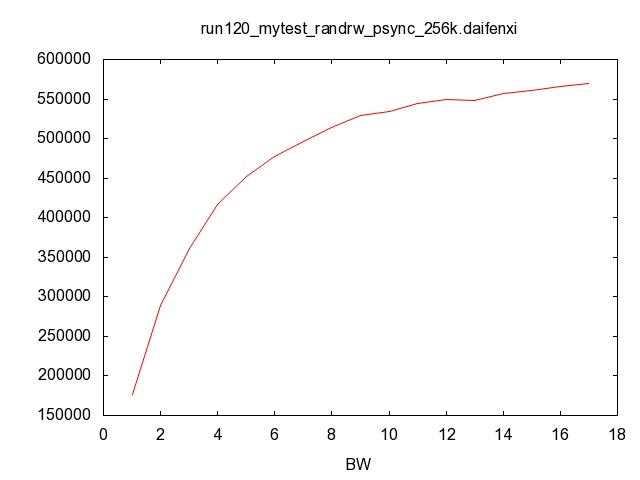
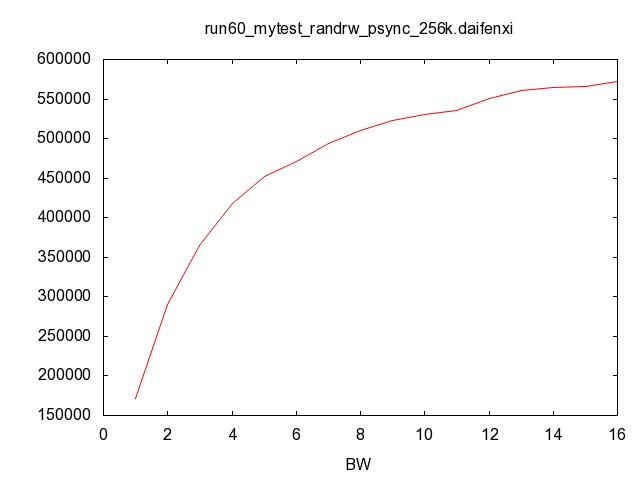
结论：会在numjobs为12左右达到最大值55W左右

##### 固定参数：1024k、psync、rw，变量：numjobs、测试时间



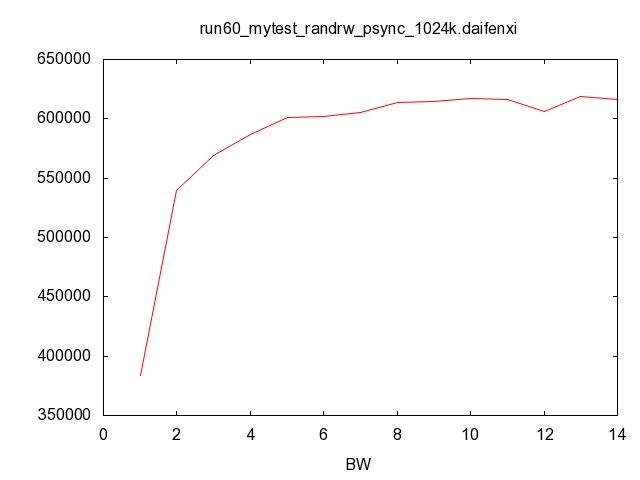
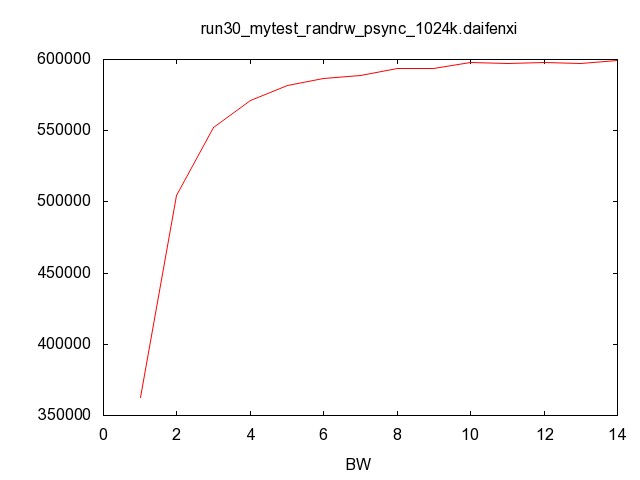
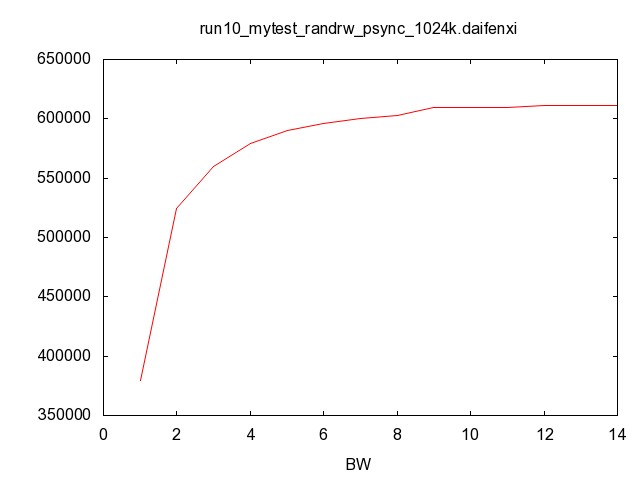
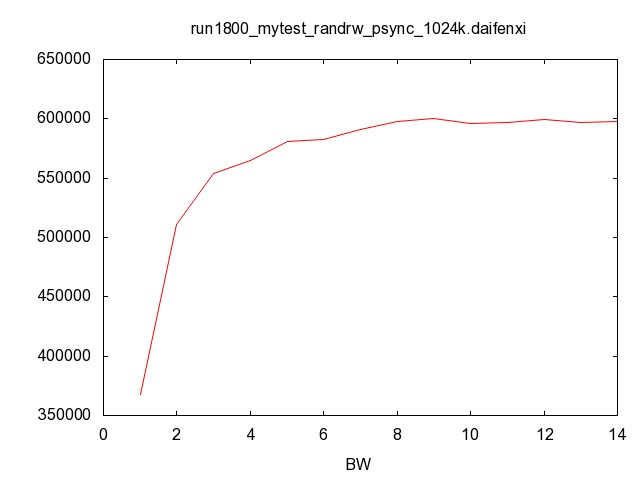
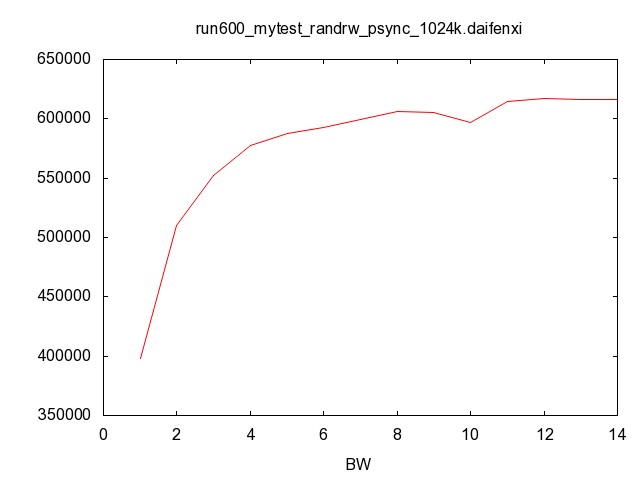
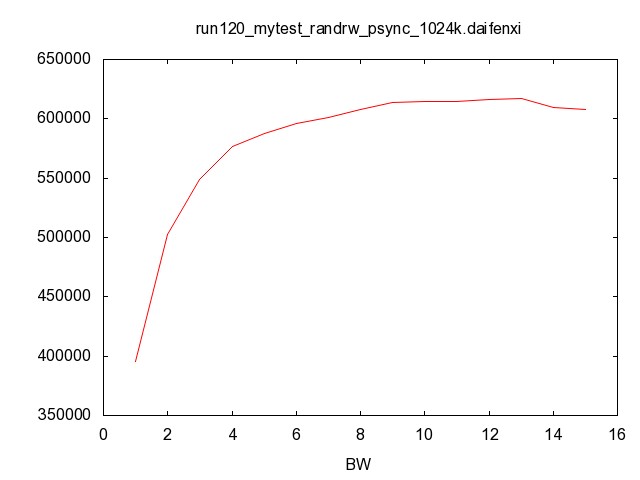
结论：会在numjobs为10左右达到最大值60W左右

##### 固定参数：256k、psync、randrw，变量：numjobs、测试时间



结论：会在numjobs为10左右达到最大值55W左右

##### 固定参数：1024k、psync、randrw，变量：numjobs、测试时间



结论：会在numjobs为10左右达到最大值60W左右