

128mb

```
1 java -XX:+UseParallelGC -Xms128m -Xmx128m -XX:+PrintGCDetails -XX:+PrintGCDateStamps week_02.housew
```

Cause	Count	Avg Time	Max Time	Total Time
Ergonomics	20	9.50 ms	20.0 ms	190 ms
Allocation Failure	10	5.00 ms	20.0 ms	50.0 ms
Full GC - Allocation Failure	1	20.0 ms	20.0 ms	20.0 ms

Total GC stats		Minor GC stats		Full GC stats	
Total GC count	31	Minor GC count	10	Full GC Count	21
Total reclaimed bytes	234.45 mb	Minor GC reclaimed	167.51 mb	Full GC reclaimed	66.93 mb
Total GC time	240 ms	Minor GC total time	30.0 ms	Full GC total time	210 ms
Avg GC time	7.74 ms	Minor GC avg time	3.00 ms	Full GC avg time	10.0 ms
GC avg time std dev	7.05 ms	Minor GC avg time std dev	4.58 ms	Full GC avg time std dev	6.90 ms
GC min/max time	0 / 20.0 ms	Minor GC min/max time	0 / 10.0 ms	Full GC min/max time	0 / 20.0 ms
GC Interval avg time	10.0 ms	Minor GC Interval avg	9.00 ms	Full GC Interval avg	11.0 ms

256mb

```
1 java -XX:+UseParallelGC -Xms256m -Xmx256m -XX:+PrintGCDetails -XX:+PrintGCDateStamps week_02.housew
```

Cause	Count	Avg Time	Max Time	Total Time
Ergonomics	29	19.0 ms	50.0 ms	550 ms
Allocation Failure	12	7.50 ms	10.0 ms	90.0 ms
Full GC - Allocation Failure	2	5.00 ms	10.0 ms	10.0 ms

Total GC stats		Minor GC stats		Full GC stats	
Total GC count	43	Minor GC count	12	Full GC Count	31
Total reclaimed bytes	655.73 mb	Minor GC reclaimed	370.3 mb	Full GC reclaimed	285.42 mb
Total GC time	640 ms	Minor GC total time	80.0 ms	Full GC total time	560 ms
Avg GC time	14.9 ms	Minor GC avg time	6.67 ms	Full GC avg time	18.1 ms
GC avg time std dev	11.5 ms	Minor GC avg time std dev	4.71 ms	Full GC avg time std dev	11.8 ms
GC min/max time	0 / 50.0 ms	Minor GC min/max time	0 / 10.0 ms	Full GC min/max time	0 / 50.0 ms
GC Interval avg time	19.0 ms	Minor GC Interval avg	19.0 ms	Full GC Interval avg	21.0 ms

512mb

```
1 java -XX:+UseParallelGC -Xms512m -Xmx512m -XX:+PrintGCDetails -XX:+PrintGCDateStamps week_02.housework
```

Cause	Count	Avg Time	Max Time	Total Time
Allocation Failure	29	10.7 ms	30.0 ms	310 ms
Ergonomics	7	35.7 ms	50.0 ms	250 ms

Total GC stats		Minor GC stats		Full GC stats	
Total GC count	36	Minor GC count	29	Full GC Count	7
Total reclaimed bytes	1.74 gb	Minor GC reclaimed	1.31 gb	Full GC reclaimed	443.81 mb
Total GC time	560 ms	Minor GC total time	310 ms	Full GC total time	250 ms
Avg GC time	15.6 ms	Minor GC avg time	10.7 ms	Full GC avg time	35.7 ms
GC avg time std dev	12.8 ms	Minor GC avg time std dev	8.28 ms	Full GC avg time std dev	7.28 ms
GC min/max time	0 / 50.0 ms	Minor GC min/max time	0 / 30.0 ms	Full GC min/max time	30.0 ms / 50.0 ms
GC Interval avg time	25.0 ms	Minor GC Interval avg	30.0 ms	Full GC Interval avg	84.0 ms

1024mb

```
1 java -XX:+UseParallelGC -Xms1g -Xmx1g -XX:+PrintGCDetails -XX:+PrintGCDateStamps week_02.housework1
```

Cause	Count	Avg Time	Max Time	Total Time
Allocation Failure	14	28.6 ms	60.0 ms	400 ms
Ergonomics	1	60.0 ms	60.0 ms	60.0 ms

Total GC stats		Minor GC stats		Full GC stats	
Total GC count	15	Minor GC count	14	Full GC Count	1
Total reclaimed bytes	2.01 gb	Minor GC reclaimed	1.7 gb	Full GC reclaimed	314.84 mb
Total GC time	460 ms	Minor GC total time	400 ms	Full GC total time	60.0 ms
Avg GC time	30.7 ms	Minor GC avg time	28.6 ms	Full GC avg time	60.0 ms
GC avg time std dev	17.3 ms	Minor GC avg time std dev	16.0 ms	Full GC avg time std dev	0
GC min/max time	0 / 60.0 ms	Minor GC min/max time	0 / 60.0 ms	Full GC min/max time	60.0 ms / 60.0 ms
GC Interval avg time	59.0 ms	Minor GC Interval avg	63.0 ms	Full GC Interval avg	n/a

## 总结

ParallelGC 回收期间以吞吐量为第一指标,多线程并行回收.平均回收时间低,但是最小和最大时间之间跨度很大.