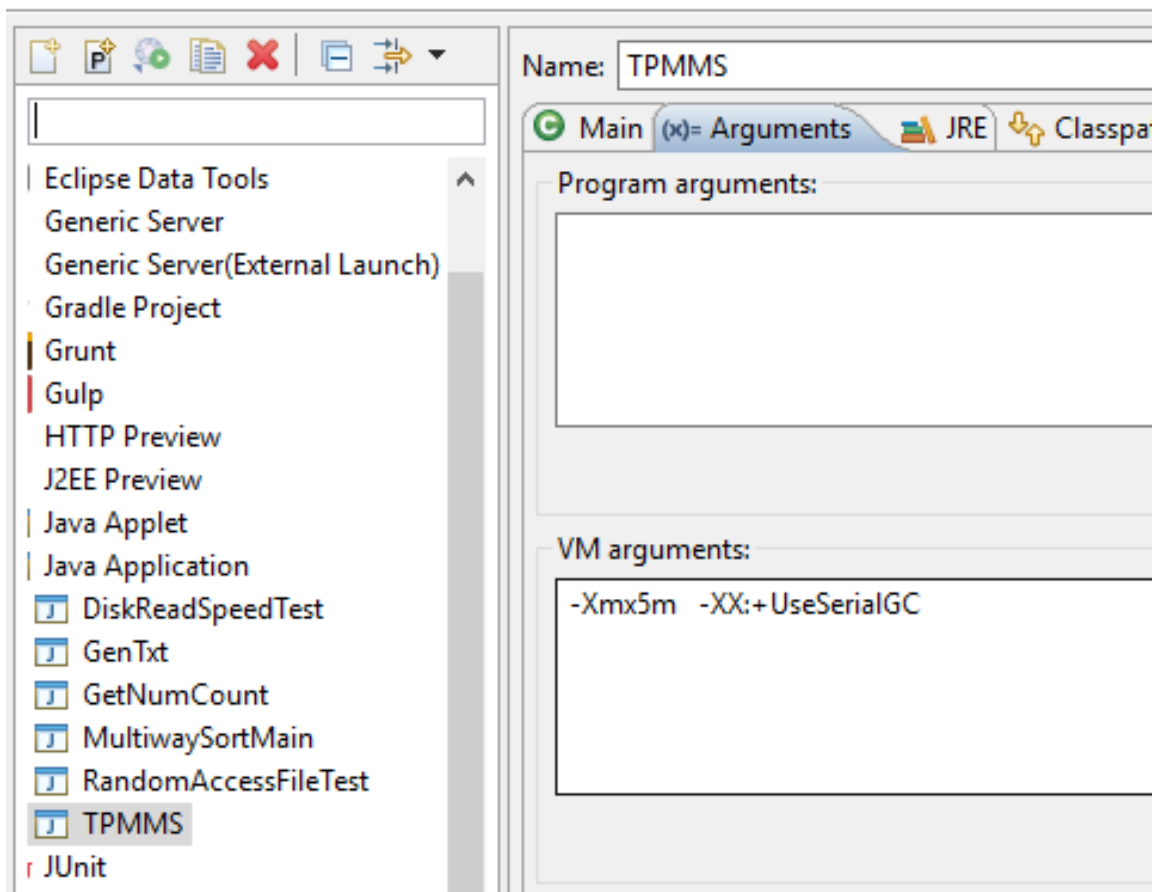


Eclipse VM 设置



文件名: random_group10_1M_5MB.txt (7270KB)

```
<terminated> TPMMS [Java Application] C:\Program Files\Java\jre1.8.0_151\bin\javaw.exe (Dec. 25, 2018, 11:55:39 p.m.)

file to be sorted: random_group10_1M_5MB.txt

pass one time: 232 ms
pass two time: 266 ms

total time: 498 ms

*** Manually delete all temporary and sorted files/folder before next running! ***
```

文件名: random_group10_10M_5MB.txt_72700KB)

```
<terminated> TPMMS [Java Application] C:\Program Files\Java\jre1.8.0_151\bin\javaw.exe (Dec. 25, 2018, 11:58:07 p.m.)
```

```
file to be sorted: random_group10_10M_5MB.txt
```

```
pass one time: 1604 ms
```

```
pass two time: 3088 ms
```

```
total time: 4693 ms
```

```
*** Manually delete all temporary and sorted files/folder before next running! ***
```

主要提升部分:

1. 文件 IO, pass one 中用字节流代替字符流, 使用 FileChannel 通道配合 MappedByteBuffer
2. 数字拼接使用 bit 移位, 代替 String.split()方式
3. pass two 读取还是使用 MappedByteBuffer, 写入使用字符流以便直接阅读
4. JVM 的 GC 使用串行 GC, 并行 GC 此处效果不佳。

! 多次测试前需手动删除临时文件夹和前一次的输出文件!

领先组之前的测试结果:

Project 1 – Demo Results

1 million data with 5 mb – 846ms

10 million data with 5mb – 7401ms