总结

上午程设A课堂上,完成了project0的程序,那时候1s只能跑100左右,困难主要在进制转换和int只用在二进制单位运算上面,耗时也主要分布在上面,打算下午优化。

```
emengdeath@emengdeath-virtual-machine:~/Desktop/c2018/level2/PI$ time ./a

real     0m0.865s
user     0m0.864s
sys     0m0.000s
emengdeath@emengdeath-virtual-machine:~/Desktop/c2018/level2/PI$ diff pi.out standard10K.out
emengdeath@emengdeath-virtual-machine:~/Desktop/c2018/level2/PI$
```

```
emengdeath@emengdeath-virtual-machine:~/Desktop/c2018/level2/PI$ time ./a

real   1m28.490s
user   1m28.400s
sys   0m0.036s
emengdeath@emengdeath-virtual-machine:~/Desktop/c2018/level2/PI$ diff pi.out standard100K.out
emengdeath@emengdeath-virtual-machine:~/Desktop/c2018/level2/PI$
```

以上是我project1跑分结果,看样子和柱爷还差得远,下午我采用了压位、开O2编译等优化手段,但由于时间关系,没来得及进一步优化,先存档。

```
    real 0m0.529s
    user 0m0.000s
    emengdeath-virtual-machine:~/Desktop/c2018/level2/PI$ time ./a

real 0m0.528s
    sys 0m0.000s
    emengdeath@emengdeath-virtual-machine:~/Desktop/c2018/level2/PI$ diff pi.out standard10K.out
```

```
emengdeath@emengdeath-virtual-machine:~/Desktop/c2018/level2/PI$ time ./a

real 0m52.995s
user 0m52.860s
sys 0m0.044s
emengdeath@emengdeath-virtual-machine:~/Desktop/c2018/level2/PI$ diff p
pi.out pi.out~ project0/ project1/ project2/
emengdeath@emengdeath-virtual-machine:~/Desktop/c2018/level2/PI$ diff pi.out standard100K.out
emengdeath@emengdeath-virtual-machine:~/Desktop/c2018/level2/PI$
```

以上为晚上进行成果,对于串行代码热点优化,主要在于将求和部分合并了,以及用位运算代替了取模运算等,首次突破100K数据1min。后面比拼并行计算能力。 希望能赶上柱爷成绩~~~

1 of 1 3/13/18, 9:15 PM