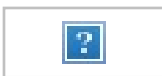


写程序让CPU占用率保持正弦函数



导入自 renren
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据说是一道微软的面试题。如题，写程序，让Windows的任务管理器中的性能监视器呈现正弦曲线。



潜心钻研良久，得代码： (java)

```
1 public class sincpu {
2     private static final int cycle=1
024,tick = 256;
3     public static void main (String[]
args) throws InterruptedException {
4         for(int i = 0;;i++){
5             work(calcNextSleep(i % c
ycle));
6             sleep(tick - calcNextSle
ep(i % cycle));
7         }
8     }
9
10    private static long calcNextSleep
(long i){
11        return (int)(Math.sin((double
)i * 2 * Math.PI / cycle) * tick + tick)
/ 2;
12    }
13
14    private static void sleep (long
sleepTime) throws InterruptedException
15    {
16        if(sleepTime < 2)
17            Thread.yield();
18        else
19            Thread.sleep(sleepTime);
20    }
21
```

```
22     private static void work (long p
period) {
23         long start = System.currentT
imeMillis();
24         for(;;){
25             Math.sin(1);
26             if(System.currentTimeMil
lis() - start >= period)
27                 break;
28         }
29     }
30 }
```

多核CPU上测试时要注意关掉一个CPU：

