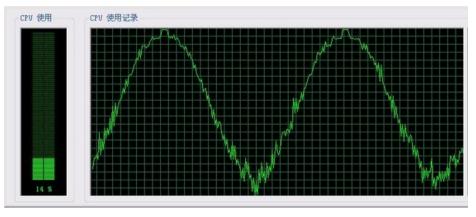
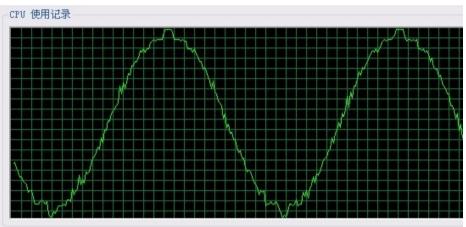
写程序让CPU占用 率保持正弦函数

Z

导入自 renren

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=
1024,tick = 256;
3    public static void main (String
[] args) throws InterruptedException {
4         for(int i = 0;;i++){
5             work(calcNextSleep(i % cycle));
6             sleep(tick - calcNextSleep(i % cycle));
```

```
}
7
8
       }
9
10
        private static long calcNextSle
ep(long i){
            return (int)(Math.sin((doub
11
le)i * 2 * Math.PI / cycle) * tick + t
ick) / 2;
12
        }
13
14
        private static void sleep (long
sleepTime) throws InterruptedException
15
        {
            if(sleepTime < 2)</pre>
16
17
                Thread.yield();
18
            else
19
                 Thread.sleep(sleepTime);
20
        }
21
22
        private static void work (long
period) {
23
            long start = System.current
TimeMillis():
            for(;;){
24
25
                Math.sin(1);
26
                 if(System.currentTimeMi
llis() - start >= period)
27
                     break;
            }
28
        }
29
30 }
```

4

多核CPU上测试时要注意关掉一个CPU:

