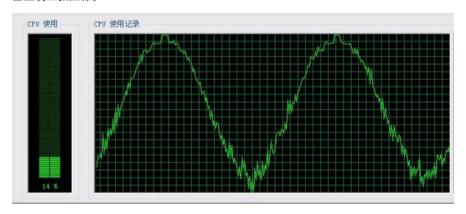
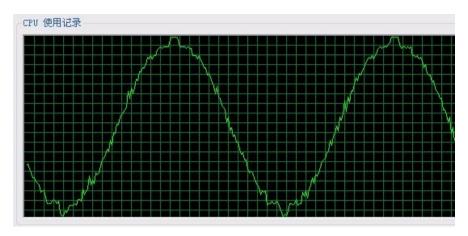
寫程序讓CPU佔用率保持正弦函 數 ^四

導入自 renren

據說是一道微軟的面試題。如題,寫程序,讓Windows的任務管理器中的性能監視 器呈現正弦曲線。





潛心鑽研良久,得代碼:(java)

```
1 public class sincpu {
       private static final int cycle=1024,tick = 256;
2
3
       public static void main (String[] args) throws Interrupt
edException {
           for(int i = 0;; i++){}
5
               work(calcNextSleep(i % cycle));
6
               sleep(tick - calcNextSleep(i % cvcle)):
7
           }
       }
8
9
10
       private static long calcNextSleep(long i){
            return (int)(Math.sin((double)i * 2 * Math.PI / cyc
11
le) * tick + tick) / 2:
12
       }
13
       private static void sleep (long sleepTime) throws Inter
14
ruptedException
15
       {
16
            if(sleepTime < 2)</pre>
17
                Thread.yield();
18
            else
19
                Thread.sleep(sleepTime);
20
       }
21
22
       private static void work (long period) {
23
            long start = System.currentTimeMillis();
24
            for(;;){
25
                Math.sin(1);
26
                if(System.currentTimeMillis() - start >= period
)
27
                    break;
28
            }
29
       }
30 }
```

多核CPU上測試時要注意關掉一個CPU:



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