寫程序讓CPU佔用 率保持正弦函數

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)

```
public class sincpu {
       private static final int cycle=
1024, tick = 256;
       public static void main (String
3
[] args) throws InterruptedException {
            for(int i = 0;;i++){
4
                work(calcNextSleep(i %
5
cycle));
                sleep(tick - calcNextSl
6
eep(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
        {
16
            if(sleepTime < 2)</pre>
17
                Thread.yield();
            else
18
19
                Thread.sleep(sleepTime);
20
        }
```

```
21
22
        private static void work (long
period) {
23
            long start = System.current
TimeMillis():
24
            for(;;){
25
                Math.sin(1);
26
                if(System.currentTimeMi
llis() - start >= period)
27
                     break;
28
            }
29
        }
30 }
```

多核CPU上測試時要注意關掉一個CPU:

