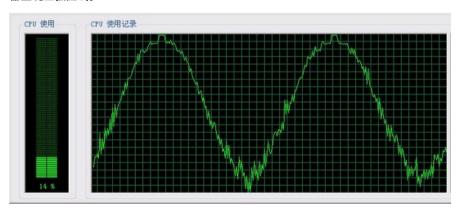
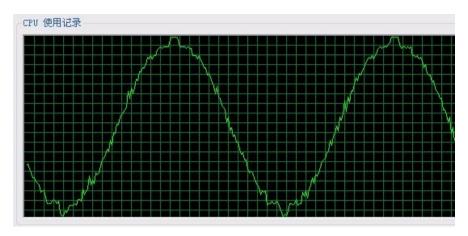
写程序让CPU占用率保持正弦函数 [□]

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 {
       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 % cycle));
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上测试时要注意关掉一个CPU:



© 2015 farseerfc · 通过 Pelican 生成 (cc) BY-NC-SA