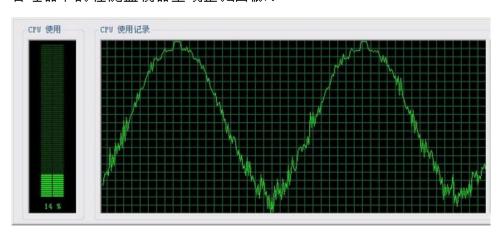
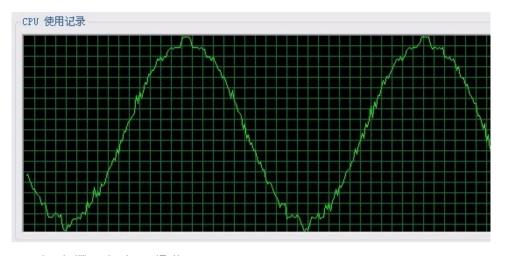
## 寫程序讓CPU佔用率保持正弦函數

## 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)

```
1
    public class sincpu {
2
      private static final int cycle=1024,tick = 256;
3
      public static void main (String[] args) throws InterruptedE
xception {
         for(int i = 0;; i++){
4
5
            work(calcNextSleep(i % cycle));
            sleep(tick - calcNextSleep(i % cycle));
6
7
         }
8
      }
9
10
       private static long calcNextSleep(long i){
11
          return (int)(Math.sin((double)i * 2 * Math.PI / cycle) * ti
ck + tick) / 2;
12
       }
13
14
       private static void sleep (long sleepTime) throws Interrupt
edException
15
       {
16
          if(sleepTime < 2)
            Thread.yield();
17
18
          else
            Thread.sleep(sleepTime);
19
20
       }
21
       private static void work (long period) {
22
23
          long start = System.currentTimeMillis();
24
          for(;;){
25
            Math.sin(1);
            if(System.currentTimeMillis() - start >= period)
26
               break;
27
28
          }
29
       }
30
    }
```

