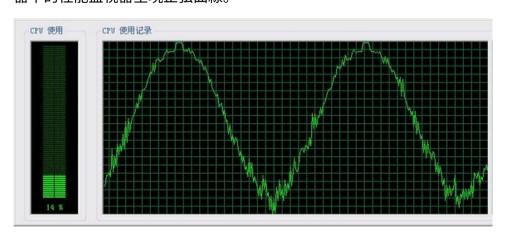
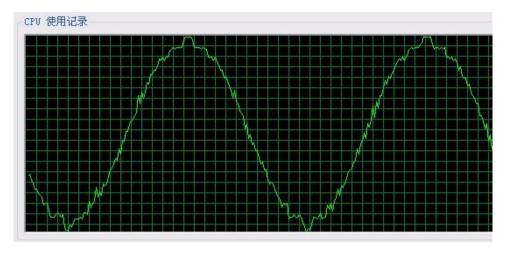
寫程序讓 CPU 佔用率保持正弦函數 □

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 {
 1
       private static final int cycle=1024,tick = 256;
2
 3
       public static void main (String() args) throws InterruptedEx
         for(int i = 0::i++){}
 4
 5
            work(calcNextSleep(i % cycle));
 6
            sleep(tick - calcNextSleep(i % cycle)):
 7
         }
 8
      }
9
10
       private static long calcNextSleep(long i){
11
          return (int)(Math.sin((double)i * 2 * Math.Pl / cycle) * ti
12
       }
13
       private static void sleep (long sleepTime) throws Interrup
14
15
         if(sleepTime < 2)
16
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
    }
```



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