寫程序讓CPU佔用率保持正弦函數 ⬀
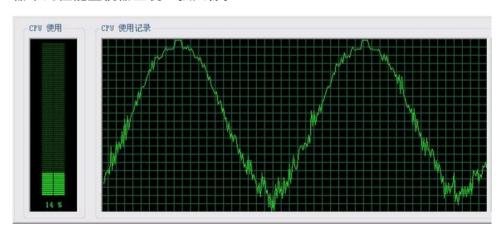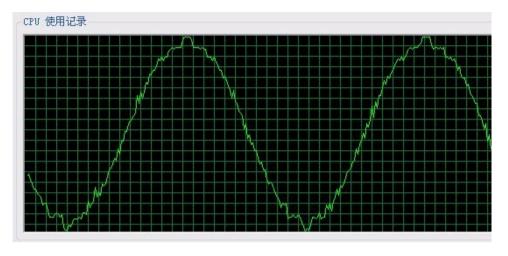
據說是一道微軟的面試題。如題，寫程序，讓Windows的任務管理器中的性能監視器呈現正弦曲線。

潜心鑽研良久，得代碼：（java）

```
 1  public class sincpu {
 2      private static final int cycle=1024,tick = 2
56;
 3      public static void main (String[] args) thro
ws InterruptedException {
 4          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){
11          return (int)(Math.sin((double)i * 2 * M
ath.PI / cycle) * tick + tick) / 2;
12      }
13
14      private static void sleep (long sleepTime)
throws InterruptedException
15      {
16          if(sleepTime < 2)
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() – sta
rt >= period)
27                  break;
28          }
29      }
30 }
```

多核CPU上測試時要注意關掉一個CPU：