

CPU

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Windows



java

```
1 public class sincpu {  
2     private static final int cycle=1  
024,tick = 256;  
3     public static void main (String[]
```

```
args) throws InterruptedException {
4         for(int i = 0;;i++){
5             work(calcNextSleep(i % c
ycle));
6             sleep(tick - calcNextSle
ep(i % cycle));
7         }
8     }
9
10    private static long calcNextSleep
(long i){
11        return (int)(Math.sin((double
)i * 2 * Math.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 p
eriod) {
23        long start = System.currentT
imeMillis();
24        for(;;){
25            Math.sin(1);
26            if(System.currentTimeMil
```

```
lis() - start >= period)
27                                     break;
28                                     }
29     }
30 }
```

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