

## 第十四章 信号（四）- 多进程任务示例

## 原理

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```

while (tSC < tCount)
{
    s tSC = tSC + mSem.Decrement(tCount, 10)
}

w "?????"_ ($zh - t1),!

s moneyAmt = 0

s data = ""
for {
    s data = $o(^yxAmt(data))
    q:(data = "")
    s moneyAmt = moneyAmt + ^yxAmt(data)
}
d mSem.Delete()
w "???" _ moneyAmt,!

w "?????"_ ($zh - t1),!
q
}

ClassMethod Task(i)
{
    s tSem = ##class(Demo.Sem).%New()
    s moneyAmt = 0
    for j = (i * 100000) + 1 : 1 : (i + 1) * 100000 {
        s money = $li(^M.YxPersonD(j), 3)
        s moneyAmt = moneyAmt + money
    }
    s ^yxAmt("moneyAmt" _ i) = moneyAmt
    s ^yx("Amt") = $i(^yx("Amt"))
    d tSem.Open(##class(Demo.Sem).Name())
    d tSem.Increment(1)
    d tSem.%Close()
    q moneyAmt
}
}

```

### 3. 创建信号类，定义name和初始化信号方法。

```

Class Demo.Sem Extends %SYSTEM.Semaphore
{

ClassMethod Name() As %String
{
    q "Semaphore"
}

Method Init(initvalue = 0) As %Status
{
    try {
        If (..Create(..Name(), initvalue)) {
            ret 1
        } else {
            ret 0
        }
    }
}

```

```
    }  
  } catch {  
    ret 0  
  }  
}  
  
}
```

### 4. 调用

```
DHC-APP>Do ##class(Demo.SemaphoreDemo).Sample(5)  
??job???.098982  
?????.119744  
???250088825096472  
?????.119774
```

[#SQL](#) [#Caché](#)

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### 源

URL:

<https://cn.community.intersystems.com/post/%E7%AC%AC%E5%8D%81%E5%9B%9B%E7%AB%A0-%E4%BF%A1%E5%8F%B7%E7%BC%88%E5%9B%9B%E7%BC%89-%E5%A4%9A%E8%BF%9B%E7%A8%8B%E4%BB%E5%8A%A1%E7%A4%BA%E4%BE%8B>