

一. 实现MEM

输出: 时间 内存 已用内存 内存剩余 占用百分比动态平均值

```
#!/bin/bash
echo "      时间      总内存      已用内存      内存剩余百分比      占用百分比动态平均值 "
```



```
echo -n "`date +%Y%m%d_%H:%M:%S`      "      #时间
#head -n 2 `free -m` | tail -n 1 | cut -d " " -f 2
sum1=`free -m | grep [0-9] | xargs | cut -d " " -f 2 `
echo -n "$sum1      "      #总内存
sum2=`free -m | grep [0-9] | xargs | cut -d " " -f 3 `
echo -n "$sum2      "      #已用内存
key=$((sum1 - sum2))
sum3=`echo "scale=2;${key}*10 / ${sum1}*10" | bc`
echo -n "$sum3%      "      #剩余的内存百分比
sum4=`echo "scale=2;0.3*${1}+0.7*${sum3}" | bc`
echo "      $sum4%      "      #占用百分比动态平均值
```

二. 实现 用户信息统计

输出: 时间 用户总数（非系统用户） 近期活跃用户（3个） 具有root权限用户

当前在线用户 登录ip TTY

```
#!/bin/bash

echo "time  users  user(3)  user(root)  xxx"

time_key=`date +%Y%m%d-%H:%M:%S `      # 时间
echo -n "[$time_key]  "
```



```
ans=`last | grep [a-zA-Z0-9] | grep -v "wtmp" | grep -v "boot" | wc -l`
echo -n "[$ans]  "      #用户数
```



```
key1=`last | grep [a-zA-Z0-9] | grep -v "wtmp" | grep -v "boot" | cut -d " " -f 1
| sort | uniq -c | sort -n -r | xargs | cut -d " " -f 2`
key2=`last | grep [a-zA-Z0-9] | grep -v "wtmp" | grep -v "boot" | cut -d " " -f 1
| sort | uniq -c | sort -n -r | xargs | cut -d " " -f 4`
key3=`last | grep [a-zA-Z0-9] | grep -v "wtmp" | grep -v "boot" | cut -d " " -f 1
| sort | uniq -c | sort -n -r | xargs | cut -d " " -f 6`
echo -n "[$key1,$key2,$key3]  "      #三个活跃用户
```



```
echo -n "['cat /etc/group | grep "sudo" | cut -d ":" -f 4 `]  "      # root 权限用户
```

```
#for i in $qwe; do
#    qw=`cut -d ":" -f 1 ${i}`
#    qe=`cut -d ":" -f 4 ${4}`
#    if [[ $qw == "sudo" ]]; then
#        echo -n "[$qe] "
#        break;
#    fi
#done

sum1=`w -h | cut -d " " -f 1`
sum2=`w -h | cut -d " " -f 3`
sum3=`w -h | cut -d " " -f 2`
echo " [$sum1,$sum2,$sum3]"
```

```
sum1=`w -h | cut -d " " -f 1`  
sum2=`w -h | cut -d " " -f 3`  
sum3=`w -h | cut -d " " -f 2`  
echo " [$sum1,$sum2,$sum3]" #在线用户
```

运行结果：

