

NE08E 在VRP5.10上查看系统CPU利用率及各接口板任务进程的方法

1、在VRP5.10上查看NE08E的系统CPU利用率

NE08E的CPU的使用都是时分复用的，也就是说在某一个时刻只有一个进程在使用CPU各进程占用CPU资源的百分比实际上是各进程在统计时间内，占用CPU的时间/统计时间的比值，查看CPU利用率命令如下：

```
<NE08E>dis cpu-usage
===== Current CPU usage info =====
CPU Usage Stat. Cycle: 4 (Second)
CPU Usage      : 14% Max: 100%
```

//这里的占有率是通过1-空闲进程占用率计算出来的

```
CPU Usage Stat. Time : 2006-08-29 08:44:27
CPU Usage Stat. Tick : 0x142(CPU Tick High) 0x6d766c2(CPU Tick Low)
Actual Stat. Cycle : 0x0(CPU Tick High) 0x407f148(CPU Tick Low)
```

//时间片x调用次数 0x3Cx0x1716=0x56928=354600微秒=0.3毫秒

TaskName CPU Runtime(CPU Tick High/CPU Tick Low)

//这里的占有率就是各进程占用CPU的时间/统计时间的比值

VIDL	86%	0/ 37949a3
TICK	0%	0/ 50272
IPCQ	0%	0/ fd8a
IpcR	0%	0/ 3c05
VpRe	0%	0/ 16e14
RPCQ	0%	0/ 5431
HeiR	0%	0/ 1c610
HSC	0%	0/ 25be3
VMON	0%	0/ 1d2a
STND	0%	0/ 1194d

vt1 7% 0/ 507e25

//实际结果是7.80...%这里的计算取整，所以各进程占用CPU百分比加起来不是100%

CFA	0%	0/ 4f06
INFO	0%	0/ 74483
ROUT	1%	0/ f77ad
LSPM	0%	0/ 5bf
RSVP	0%	0/ 14e20
CSPF	0%	0/ 43e0e
TNLM	0%	0/ b8e1
FIB	0%	0/ 2a206
SOCK	0%	0/ 4067d
VTYD	0%	0/ f382
IKE	0%	0/ 2129
AGNT	0%	0/ 8a6c
MDMT	0%	0/ 28a84
NTPT	0%	0/ 4a4ca
TAC	0%	0/ 14e57
HS2M	0%	0/ a330
DHCP	0%	0/ 272a
RMON	0%	0/ 1d91
HOT	0%	0/ 8b9d
vt0	0%	0/ 4a7f
OS	0%	0/ 9f86

2、在VRP5.10上查看NE08E各接口板的任务进程信息

查看各接口板的任务进程信息需要进入隐藏模式：

[NE08E_]_

Now you enter a hidden command view for developer's testing, some commands may affect operation by wrong use, please carefully use it with HUAWEl engineer's direction.

2.1查看主控板的任务进程

[NE08E-hidecmd]disp task

name	Tid	VOS_Tid	priority	Status	CPU Total(Millsecs)
------	-----	---------	----------	--------	---------------------

```

=====
EAGT  2ffdc0  1  210  eventblock  0
_UPL  27ee408  2  210  eventblock  0
VIDL  27ea1f0  3  1  preemptready  -500965232
TICK  27e5fd8  4  145  preemptready  39487977
ROOT  27e1dc0  5  210  preemptready  36120
T03M  27ddba8  6  160  eventblock  0
T03E  27d9990  7  210  eventblock  0
IPCQ  27d5778  8  140  sleep  8801245
VP  27cb560  9  140  sleep  5152
IpcR  27c1348  10  140  eventblock  1002039
VpRe  27b7130  11  100  preemptready  32861
RPCQ  27acf18  12  140  eventblock  2130450
XMON  27a2d00  13  140  eventblock  0
VFS  2798ae8  14  100  queblock  0
Alu  278e210  15  140  semblock  151900
HSC  2783fd0  16  180  sleep  29912175
VMON  2779d68  17  100  eventblock  843830
STND  276fa88  18  80  eventblock  4078174
vt0  25e3bb8  19  100  running  1300
CFA  275b5f0  20  100  sleep  2321459
INFO  27513d8  21  100  normalready  76069
ND  2747198  22  100  eventblock  0
FIB6  273cf58  23  100  sleep  21007914
ROUT  2732d18  24  100  eventblock  62416934
LSPM  2728ad8  25  100  sleep  2694428
LSPA  271e898  26  140  eventblock  0
LDP  2714658  27  100  eventblock  1348
RSVP  270a418  28  100  sleep  8188644
CSPF  27001d8  29  100  sleep  36610484
TNLM  26f5f98  30  100  sleep  5921644
L2V  26ebd58  31  100  eventblock  206
FIB  26e1b18  32  100  sleep  25218263
SOCK  26d78d8  33  100  eventblock  10332862
VTYD  26cd698  34  100  eventblock  4063188
IFNT  26c3458  35  100  queblock  5949
IPSP  26b9218  36  100  eventblock  87390
IKE  26aefd8  37  100  eventblock  104257
RSA  26a4d98  38  100  eventblock  57
L2TP  269ab58  39  100  eventblock  104329
XOT  2690918  40  100  eventblock  0
AGNT  26866d8  41  100  eventblock  27136
TRAP  267c498  42  100  queblock  0
MDMT  2672258  43  100  sleep  20963129
NTPT  2668018  44  100  sleep  37821903
AAA  265ddd8  45  100  queblock  575
RDS  2653b98  46  100  queblock  154
TAC  2649958  47  100  sleep  10397076
WEB  263f718  48  100  queblock  99
UCM  26354d8  49  100  queblock  61332
LAM  262b298  50  100  eventblock  13111
CFM  2621058  51  100  queblock  3738
HS2M  2616e18  52  110  eventblock  2
VRRP  260cb38  53  100  eventblock  0
DHCP  26028f8  54  100  eventblock  958835
RMON  25f85c8  55  100  queblock  785475
HOT  25ee2d0  56  100  sleep  4143702
[NE08E-hidecmd]

```

2.2查看接口板的任务进程

[NE08E-hidecmd]disp task slot 2

```

name      Tid  VOS_Tid  priority  Status      CPU Total(Millsecs)
=====
=====

```

EAGT	2ffdc0	1	210	eventblock	0
_UPL	1a6bde8	2	210	eventblock	0
VIDL	1a67bd0	3	1	preemptready	7274
TICK	1a639b8	4	145	suspend	5
ROOT	1a5f7a0	5	210	preemptready	14
T03M	1a5b588	6	160	eventblock	0
T03E	1a57370	7	210	eventblock	0
IPCQ	1a53158	8	140	eventblock	0
lpcR	1a3ed28	10	140	eventblock	97818
RPCQ	1a34b10	11	140	running	76308
XMON	1a2a8f8	12	140	eventblock	0
VMON	1a164c8	14	100	eventblock	3
STND	19f7e80	15	80	eventblock	1826727182
INFO	19edc68	17	100	eventblock	35666
ND	19e3a50	18	100	eventblock	1356
FIB6	19d9838	19	100	eventblock	57
LSPA	19cf620	20	140	eventblock	0
FIB	19c5408	21	100	eventblock	456
SOCK	19bb1f0	22	100	normalready	1501192955
IFNT	19b0fd8	23	100	queblock	4175
IPSP	19a6dc0	24	100	eventblock	0
L2TP	199cba8	25	100	eventblock	79170

[NE08E-hidecmd]