

Guía de Troubleshooting del uso del nexa 7000 CPU elevada

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Introducción

Este documento describe los comandos y los procesos comunes de monitorear el USO de la CPU y de resolver problemas CPU elevada los problemas del uso en las Plataformas de las 7000 Series del nexa de Cisco. Los comandos y el script de la muestra EEM se basan en la versión 6.1 del nexa 7000 y anterior y están conforme al cambio en las futuras versiones.

USO de la CPU en el nexa 7000 Plataformas

La plataforma del nexa 7000 es un sistema Linux-basado con un planificador de trabajos con derecho preferente que permita el acceso justo a los recursos de la CPU para todos los procesos. A diferencia de las Cisco Catalyst 6500 Series, no hay (RP) separado y switch processor (SP) del Route Processor. El Supervisor Engine 1 tiene un procesador dual-core, el Supervisor Engine 2 tiene un procesador quad-core, y el Supervisor Engine 2E tiene dos procesadores quad-cores.

El sistema operativo del Cisco NX-OS se aprovecha del multitarea con derecho preferente CPU, así que los procesos pueden aprovecharse de un CPU ocioso para completar las tareas más rápidamente. Por lo tanto, la opción del historial puede señalar los puntos CPU que no indican necesariamente un problema. Sin embargo, si el USO de la CPU medio sigue siendo alto comparado a normal, USO de la CPU de la línea de fondo para una red determinada, usted puede ser que necesite investigar CPU elevada el uso.

Los limitadores predeterminados de la tarifa del hardware (HWRL) y las Políticas del plano de control predeterminadas (CoPP) se habilitan para ayudar a proteger la interfaz inband del supervisor en el nexa 7000 Plataformas.

Comandos y scripts de monitorear los procesos y los CPU

Comandos

[El analizador del CLI de Cisco](#) ([clientes registrados solamente](#)) apoya los ciertos comandos show. Utilice el analizador del CLI de Cisco para ver una análisis de la salida del comando show.

comando show processes

Utilice este mostrar información del comando para sobre los procesos activos.

```
switch# show processes
```

```
PID State PC Start_cnt TTY Type Process
```

```
-----  
1 S 41520eb8 1 - 0 init  
2 S 0 1 - 0 kthreadd  
3 S 0 1 - 0 migration/0  
4 S 0 1 - 0 ksoftirqd/0  
5 S 0 1 - 0 watchdog/0  
6 S 0 1 - 0 migration/1  
7 S 0 1 - 0 ksoftirqd/1  
8 S 0 1 - 0 watchdog/1  
9 S 0 1 - 0 events/0  
10 S 0 1 - 0 events/1  
11 S 0 1 - 0 khelper  
12 S 0 1 - 0 kblockd/0
```

Campo Descripción
PID ID de Proceso

Estado Estado del proceso
 PC Contador de programa actual en el formato hexadecimal
 Start_cnt Se ha encendido o se ha recommenzado la cantidad de veces un proceso
 TTY Terminal que controla el proceso. Un gui3n (--) significa generalmente una daemon que no se ejecuta en cualquier terminal determinada.

Proceso Nombre del proceso

Estado del proceso Descripción

D Sueño continuo (generalmente entrada-salida)
 R Runnable (en la cola ejecutada)
 S El dormir
 T Localizado o parado
 Z Proceso difunto (del zombi)
 NR No ejecutándose
 ER Debe ejecutarse pero actualmente no ejecutarse

muestre a recursos del sistema el comando

Utilice este comando para visualizar las estadísticas relacionadas al sistema CPU y de la memoria.

```
switch#show system resources
Load average: 1 minute: 0.36 5 minutes: 0.39 15 minutes: 0.44
Processes : 1068 total, 1 running
CPU states : 0.5% user, 5.5% kernel, 94.0% idle
Memory usage: 8245436K total, 3289920K used, 4955516K free
Current memory status: OK
```

Campo Descripción

Carga Número de procesos que se están ejecutando. La media refleja la carga del sistema durante los últimos 1, 5, y 15 minutos.

Procesos Número de procesos en el sistema y cuántos procesos se están ejecutando realmente cuando se publica el comando.

Estatus Porcentaje del USO de la CPU en el modo usuario, el modo del corazón, y el tiempo de CPU inactividad en el segundo más pasado. Para un supervisor dual-core, el CPU se hace un promedio a través de ambas memorias.

Uso de Memoria total, memoria usada, memoria libre, memoria usada para los buffers, y memoria la usada para el caché en los kilobytes. Los buffers y el caché se incluyen en las estadísticas memoria usadas de la memoria.

Comando show processes cpu

Utilice este comando para mostrar el USO de la CPU en el nivel de proceso:

```
switch#show processes cpu | ex 0.0
```

```
PID Runtime(ms) Invoked uSecs 1Sec Process
-----
26 66399 269718 246 0.9% kide/1
2908 115550 11310 10216 2.9% platform
3223 7248 9208 787 0.9% R2D2_usd
```

CPU util : 1.0% user, 3.0% kernel, 96.0% idle Please note that only processes from the requested vdc are shown above

Campo Descripción

Runtime(ms) Hora de la CPU que el proceso ha utilizado en los milisegundos

Llamado Cantidad de veces que se ha activado el proceso

uSecs Media hora de la CPU para cada invocación de proceso en los microsegundos
1Sec Porcentaje del USO de la CPU para el segundo más pasado

Para descubrir el USO de la CPU para todo rosca que pertenezcan a un identificador de proceso específico (PID), utiliza el comando del **detalle CPU del proceso de la demostración** <pid>, que está disponible en la versión 6.2x NX-OS.

comando show processes cpu history

Utilice este comando para visualizar el USO de la CPU para el último 60 segundos, 60 minutos, y 72 horas. Esté seguro de marcar el USO de la CPU medio (#) y los puntos (*).

```
switch# show processes cpu history
```

```
1 131 12 1 1 1 1 2 1 1 1
195388933456577607393535376775867507294877653564353456145546
100
90
80
70
60
50
40 #
30 #
20 ## ## # # #
10 ##### # ##### # # # # #
0...5...1...1...2...2...3...3...4...4...5...5...
0 5 0 5 0 5 0 5 0 5
CPU% per second (last 60 seconds)
# = average CPU%
```

```
2222222242212222122222222264222211222122222222222121221412
523210211239434396322261541608790993139620151432210949597392
100
90
80
70 *
60 *
50 *
40 * ** *
30 * * * * * ***** * * * * *
20 *****
10 #####
0...5...1...1...2...2...3...3...4...4...5...5...
0 5 0 5 0 5 0 5 0 5
```

CPU% per minute (last 60 minutes)
* = maximum CPU% # = average CPU%

```
1
666765454544445544555669844465554466654464446069464554545556665544444474
459056619185613722269482096333506853055519639003005209696949867484693724
100 *
90 * * *
80 ** * *
70 **** *** * ** * ** *
60 ***** * ***** * * ***** * ***** * * ** ***** *
50 ***** ** ***** ***** ***** ***** ***** ** **
40 *****
```

```

30 *****
20 *****
10 #####
0....5....1....1....2....2....3....3....4....4....5....5....6....6....7.
0 5 0 5 0 5 0 5 0 5 0 5 0

```

CPU% per hour (last 72 hours)
* = maximum CPU% # = average CPU%

muestre el comando de proceso del detalle CPU <pid>

Este comando, que fue agregado en la versión 6.2, visualiza la información del USO de la CPU para todos los hilos que pertenezcan a un PID específico.

```

switch# show processes cpu sorted | grep cli
3965 23734 17872 1328 0.0% 0.1% 0.7% - clis
4024 3047 1256 2426 0.0% 0.0% 0.0% - diagclient
4094 787 258 3052 0.0% 0.0% 0.0% - cardclient
4728 227 209 1088 0.0% 0.0% 0.0% - port_client
4729 1351 499 2708 0.0% 0.0% 0.0% - statsclient
4730 2765 550 5028 0.0% 0.0% 0.0% - xbar_client

```

```

switch# show processes cpu sorted | grep clis
3965 23734 17872 1328 0.0% 0.1% 0.7% - clis
switch# show process cpu detailed 3965

```

CPU utilization for five seconds: 3%/3%; one minute: 0%; five minutes: 1%
PID Runtime(ms) Invoked uSecs 5Sec 1Min 5Min TTY Process

```

-----
3965 23734 17873 1327 0.0% 0.1% 0.6% - clis
4227 45 334 135 0.0% 0.0% 0.0% - clis:clis-cli-t
4228 24 153 162 0.0% 0.0% 0.0% - clis:clis-nvdb-
4760 75 224 335 0.0% 0.0% 0.0% - clis:clis-seria

```

```

switch# show processes cpu sorted | grep netstack
4133 353 892 395 0.0% 0.0% 0.0% - netstack
switch# show process cpu detailed 4133

```

CPU utilization for five seconds: 5%/5%; one minute: 1%; five minutes: 1%
PID Runtime(ms) Invoked uSecs 5Sec 1Min 5Min TTY Process

```

-----
4133 353 892 395 0.0% 0.0% 0.0% - netstack
4145 322 6492 49 0.0% 0.0% 0.0% - netstack:active
4151 239 247 971 0.0% 0.0% 0.0% - netstack:ip-sys
4153 0 3 162 0.0% 0.0% 0.0% - netstack:mpplsda
4155 2 3 717 0.0% 0.0% 0.0% - netstack:mpplsct
4163 0 2 240 0.0% 0.0% 0.0% - netstack:ipv6-d
4164 97 957 101 0.0% 0.0% 0.0% - netstack:netsta
4166 15 628 25 0.0% 0.0% 0.0% - netstack:ip-sys
4167 0 3 224 0.0% 0.0% 0.0% - netstack:ip-pm-
4170 1 12 154 0.0% 0.0% 0.0% - netstack:ip-uri
4171 9 30 323 0.0% 0.0% 0.0% - netstack:ip-ipc
4173 0 5 167 0.0% 0.0% 0.0% - netstack:ip-ipc
4175 0 2 305 0.0% 0.0% 0.0% - netstack:ip-ret
4176 12 7 1838 0.0% 0.0% 0.0% - netstack:ip-ppf
4178 4 15 289 0.0% 0.0% 0.0% - netstack:ipv6-c
4179 41 445 93 0.0% 0.0% 0.0% - netstack:disp
4180 0 6 98 0.0% 0.0% 0.0% - netstack:worker
4181 33 501 66 0.0% 0.0% 0.0% - netstack:worker
4182 0 2 232 0.0% 0.0% 0.0% - netstack:worker
4183 0 2 227 0.0% 0.0% 0.0% - netstack:worker
4184 0 3 152 0.0% 0.0% 0.0% - netstack:worker
4185 0 2 278 0.0% 0.0% 0.0% - netstack:worker

```

```

4186 0 2 254 0.0% 0.0% 0.0% - netstack:worker
4187 0 3 168 0.0% 0.0% 0.0% - netstack:worker
4188 0 2 266 0.0% 0.0% 0.0% - netstack:worker
4189 0 2 248 0.0% 0.0% 0.0% - netstack:worker
4190 0 2 254 0.0% 0.0% 0.0% - netstack:worker
4191 0 3 201 0.0% 0.0% 0.0% - netstack:worker
4192 0 2 258 0.0% 0.0% 0.0% - netstack:worker
4193 0 7 111 0.0% 0.0% 0.0% - netstack:worker
4194 0 8 78 0.0% 0.0% 0.0% - netstack:worker
4195 0 2 313 0.0% 0.0% 0.0% - netstack:worker
4196 15 632 23 0.0% 0.0% 0.0% - netstack:ptacti
4197 0 5 120 0.0% 0.0% 0.0% - netstack:tcp_ip
4198 4 11 390 0.0% 0.0% 0.0% - netstack:ipv6-m
4199 0 3 240 0.0% 0.0% 0.0% - netstack:ipv6-c
4200 0 1 561 0.0% 0.0% 0.0% - netstack:ipv6-c
4201 0 3 246 0.0% 0.0% 0.0% - netstack:icmpv6
4513 0 5 112 0.0% 0.0% 0.0% - netstack:ipv6-m
4514 0 2 291 0.0% 0.0% 0.0% - netstack:ipv6-m

```

Nota: Toda la información de proceso se basa en el “proc” en NX-OS. En NX-OS, todos los hilos comparten la memoria afectada un aparato por cualquier otro hilo, así que no es posible visualizar por la información del hilo.

muestre el comando cpu de los procesos internos del sistema

Este comando es equivalente al **comando top** en Linux, que proporciona una mirada en curso en la actividad del procesador en el tiempo real.

```
switch# show system internal processes cpu
```

```

top - 23:51:41 up 51 min, 3 users, load average: 0.56, 0.49, 0.46
Tasks: 433 total, 1 running, 431 sleeping, 0 stopped, 1 zombie
Cpu(s): 5.9%us, 7.8%sy, 0.0%ni, 81.9%id, 3.6%wa, 0.1%hi, 0.6%si, 0.0%st
Mem: 8245436k total, 3531776k used, 4713660k free, 5360k buffers
Swap: 0k total, 0k used, 0k free, 1458188k cached

```

```

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
3589 svc-isan 25 5 112m 8864 4572 S 5.7 0.1 0:21.60 stats_client
10881 sjlan 20 0 3732 1648 1140 R 3.8 0.0 0:00.04 top
26 root 20 0 0 0 0 S 1.9 0.0 1:07.07 kide/1
3280 root -2 0 101m 6104 3680 S 1.9 0.1 0:32.57 octopus
3570 root 20 0 123m 19m 6456 S 1.9 0.2 0:06.07 diag_port_lb
5151 root 20 0 205m 45m 9.8m S 1.9 0.6 0:02.61 netstack
1 root 20 0 1988 604 524 S 0.0 0.0 0:03.75 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.00 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 0:00.61 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:00.06 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.00 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:04.80 ksoftirqd/1

```

Campo

Descripción

PID

ID de Proceso

USUARIO

Nombre del usuario que posee el proceso

PR

Prioridad asignada al proceso

NI

Valor agradable del proceso

VIRT

Cantidad de memoria virtual usada por el proceso

RES

Cantidad de RAM físico que el proceso está utilizando (su tamaño residente) en los kilobytes

SHR

Cantidad de memoria compartida usada por el proceso

S

Estatus del proceso. Los valores posibles incluyen:

- D - El dormir de Uninterruptibly
- R - El ejecutarse
- S - El dormir
- T - Localizado o parado
- Z - Zombied

%CPU Porcentaje hora de la CPU de utilizado por el proceso

%MEM Porcentaje del RAM físico disponible usado por el proceso

TIME+ La cantidad total hora de la CPU del proceso ha consumido desde que fue comenzada

COMANDO Nombre del comando que fue ingresado para comenzar el proceso

“{#seconds} | no más de” opción permite el comando de ser cada ejecutado los #seconds automáticamente hasta que se ingrese un **Ctrl-c**. Ésta es salida de muestra:

```
switch# show system internal processes cpu 5 | no-more
top - 17:31:12 up 4 days, 18:31, 3 users, load average: 0.52, 0.40, 0.32
Tasks: 449 total, 3 running, 446 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192740k used, 4052696k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.25 pfm
31487 sjlan 20 0 3732 1652 1140 R 5.6 0.0 0:00.05 top
3059 svc-isan 20 0 80288 7536 4440 S 3.8 0.1 65:44.59 diagmgr
3192 root 20 0 334m 47m 11m S 1.9 0.6 25:36.52 netstack
3578 svc-isan 20 0 118m 13m 6952 S 1.9 0.2 24:57.36 stp
5119 svc-isan 20 0 139m 14m 7028 S 1.9 0.2 3:48.60 urib
5151 root 20 0 209m 46m 11m S 1.9 0.6 38:53.39 netstack
5402 svc-isan 20 0 117m 15m 9140 S 1.9 0.2 36:07.13 stp
6175 svc-isan 20 0 118m 16m 9580 S 1.9 0.2 47:09.41 stp
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
```

```
top - 17:31:18 up 4 days, 18:31, 3 users, load average: 0.48, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192592k used, 4052844k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
```

```
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.47 pfm
31490 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
11 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 khelper
top - 17:31:23 up 4 days, 18:31, 3 users, load average: 0.44, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192584k used, 4052852k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
```

```

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
31493 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
5004 svc-isan 20 0 118m 13m 6852 S 1.9 0.2 41:35.81 stp
10337 svc-isan 20 0 133m 11m 7948 S 1.9 0.1 1:42.81 mcecm
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
top - 17:31:29 up 4 days, 18:31, 3 users, load average: 0.41, 0.38, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192708k used, 4052728k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919616k cached

```

muestre a sistema el comando interno del pid del servicio del sysmgr <pid>

Utilice este comando para visualizar a los detalles adicionales, tales como tiempo del reinicio, estatus de la caída, y estado actual, en el proceso/el servicio por el PID.

```

switch# show system internal processes cpu 5 | no-more
top - 17:31:12 up 4 days, 18:31, 3 users, load average: 0.52, 0.40, 0.32
Tasks: 449 total, 3 running, 446 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192740k used, 4052696k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.25 pfm
31487 sjlan 20 0 3732 1652 1140 R 5.6 0.0 0:00.05 top
3059 svc-isan 20 0 80288 7536 4440 S 3.8 0.1 65:44.59 diagmgr
3192 root 20 0 334m 47m 11m S 1.9 0.6 25:36.52 netstack
3578 svc-isan 20 0 118m 13m 6952 S 1.9 0.2 24:57.36 stp
5119 svc-isan 20 0 139m 14m 7028 S 1.9 0.2 3:48.60 urib
5151 root 20 0 209m 46m 11m S 1.9 0.6 38:53.39 netstack
5402 svc-isan 20 0 117m 15m 9140 S 1.9 0.2 36:07.13 stp
6175 svc-isan 20 0 118m 16m 9580 S 1.9 0.2 47:09.41 stp
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0

```

```

top - 17:31:18 up 4 days, 18:31, 3 users, load average: 0.48, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192592k used, 4052844k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached

```

```

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.47 pfm
31490 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1

```



```
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
11 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 khelper
top - 17:31:23 up 4 days, 18:31, 3 users, load average: 0.44, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192584k used, 4052852k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
```

```
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
31493 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
5004 svc-isan 20 0 118m 13m 6852 S 1.9 0.2 41:35.81 stp
10337 svc-isan 20 0 133m 11m 7948 S 1.9 0.1 1:42.81 mcecm
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
top - 17:31:29 up 4 days, 18:31, 3 users, load average: 0.41, 0.38, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192708k used, 4052728k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919616k cached
```

Muestree el script EEM

Ésta es una secuencia de comandos de ejemplo que captura CPU elevada el uso intermitente. Los valores usados así como los comandos publicados se pueden modificar dependiendo de los requisitos:

```
switch# show system internal processes cpu 5 | no-more
top - 17:31:12 up 4 days, 18:31, 3 users, load average: 0.52, 0.40, 0.32
Tasks: 449 total, 3 running, 446 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192740k used, 4052696k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.25 pfm
31487 sjlan 20 0 3732 1652 1140 R 5.6 0.0 0:00.05 top
3059 svc-isan 20 0 80288 7536 4440 S 3.8 0.1 65:44.59 diagmgr
3192 root 20 0 334m 47m 11m S 1.9 0.6 25:36.52 netstack
3578 svc-isan 20 0 118m 13m 6952 S 1.9 0.2 24:57.36 stp
5119 svc-isan 20 0 139m 14m 7028 S 1.9 0.2 3:48.60 urib
5151 root 20 0 209m 46m 11m S 1.9 0.6 38:53.39 netstack
5402 svc-isan 20 0 117m 15m 9140 S 1.9 0.2 36:07.13 stp
6175 svc-isan 20 0 118m 16m 9580 S 1.9 0.2 47:09.41 stp
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0

top - 17:31:18 up 4 days, 18:31, 3 users, load average: 0.48, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192592k used, 4052844k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
```

```
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
```

```

2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.47 pfm
31490 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
11 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 khelper
top - 17:31:23 up 4 days, 18:31, 3 users, load average: 0.44, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192584k used, 4052852k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached

```

```

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
31493 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
5004 svc-isan 20 0 118m 13m 6852 S 1.9 0.2 41:35.81 stp
10337 svc-isan 20 0 133m 11m 7948 S 1.9 0.1 1:42.81 mcecm
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
top - 17:31:29 up 4 days, 18:31, 3 users, load average: 0.41, 0.38, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192708k used, 4052728k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919616k cached

```

Nota: Es necesario definir la "salida-val." Mientras que el script recoge los datos, aumenta la utilización de la CPU. Un valor para la salida-val se asegura de que el script no se ejecute en un Loop sin fin.

CPU elevada uso causado por el proceso o el tráfico

No hay proceso contra el USO de la CPU de la interrupción (como en las plataformas del software del [®] del Cisco IOS) cuando se monitorea el USO de la CPU. Un modo rápido de determinar la causa CPU elevada del uso es utilizar el [comando cpu de los procesos internos del sistema de la demostración](#). Sobre todo probablemente, CPU elevada el uso accionado por el tráfico haría Netstack, así como las otras funciones y los procesos tales como Address Resolution Protocol (ARP) y Internet Group Management Protocol (IGMP), para ejecutarse arriba.

El proceso causa CPU elevada el uso

Dependiendo de los procesos y de los problemas que están causando CPU elevada el uso, usted puede necesitar capturar los comandos específicos. Estas secciones describen los métodos que pudieron ser útiles.

muestre a sistema el *<feature>* interno mem-stats/memstats | en el comando magnífico

Utilice este comando para mostrar la asignación de memoria para un proceso; utilice “en” la opción magnífica para monitorear memoria total magnífica. Una fuga de memoria puede hacer un proceso comportarse mal, que puede dar lugar CPU elevada al uso.

Ethanalyzer

Utilice Ethanalyzer para monitorear el tráfico al CPU.

comandos debug

Nota: Consulte [Información Importante sobre Comandos de Debug](#) antes de usar un **comando debug**. Utilice los comandos debug sabiamente en un switch de producción de evitar la interrupción del servicio.

Utilice el comando del **fichero de diario del debug** siempre que sea posible dirigir la salida a un archivo especificado y evitarla bloquear encima de la sesión para llenar el Syslog. Éste es un ejemplo del Simple Network Management Protocol (SNMP) del debug:

```
switch# show system internal processes cpu 5 | no-more
top - 17:31:12 up 4 days, 18:31, 3 users, load average: 0.52, 0.40, 0.32
Tasks: 449 total, 3 running, 446 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192740k used, 4052696k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.25 pfm
31487 sjlan 20 0 3732 1652 1140 R 5.6 0.0 0:00.05 top
3059 svc-isan 20 0 80288 7536 4440 S 3.8 0.1 65:44.59 diagmgr
3192 root 20 0 334m 47m 11m S 1.9 0.6 25:36.52 netstack
3578 svc-isan 20 0 118m 13m 6952 S 1.9 0.2 24:57.36 stp
5119 svc-isan 20 0 139m 14m 7028 S 1.9 0.2 3:48.60 urib
5151 root 20 0 209m 46m 11m S 1.9 0.6 38:53.39 netstack
5402 svc-isan 20 0 117m 15m 9140 S 1.9 0.2 36:07.13 stp
6175 svc-isan 20 0 118m 16m 9580 S 1.9 0.2 47:09.41 stp
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
```

```
top - 17:31:18 up 4 days, 18:31, 3 users, load average: 0.48, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192592k used, 4052844k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
```

```
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.47 pfm
31490 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
```

```
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
11 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 khelper
top - 17:31:23 up 4 days, 18:31, 3 users, load average: 0.44, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192584k used, 4052852k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
```

```
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
31493 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
5004 svc-isan 20 0 118m 13m 6852 S 1.9 0.2 41:35.81 stp
10337 svc-isan 20 0 133m 11m 7948 S 1.9 0.1 1:42.81 mcecm
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
top - 17:31:29 up 4 days, 18:31, 3 users, load average: 0.41, 0.38, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192708k used, 4052728k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919616k cached
```

Utilice el comando del debug-filtro cuando es posible para minimizar la salida en un sistema de producción. Por ejemplo, una pérdida del paquete causa a UniDirectional Link Detection (UDLD) la generación de eco vacía:

```
switch# show system internal processes cpu 5 | no-more
top - 17:31:12 up 4 days, 18:31, 3 users, load average: 0.52, 0.40, 0.32
Tasks: 449 total, 3 running, 446 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192740k used, 4052696k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.25 pfm
31487 sjlan 20 0 3732 1652 1140 R 5.6 0.0 0:00.05 top
3059 svc-isan 20 0 80288 7536 4440 S 3.8 0.1 65:44.59 diagmgr
3192 root 20 0 334m 47m 11m S 1.9 0.6 25:36.52 netstack
3578 svc-isan 20 0 118m 13m 6952 S 1.9 0.2 24:57.36 stp
5119 svc-isan 20 0 139m 14m 7028 S 1.9 0.2 3:48.60 urib
5151 root 20 0 209m 46m 11m S 1.9 0.6 38:53.39 netstack
5402 svc-isan 20 0 117m 15m 9140 S 1.9 0.2 36:07.13 stp
6175 svc-isan 20 0 118m 16m 9580 S 1.9 0.2 47:09.41 stp
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0

top - 17:31:18 up 4 days, 18:31, 3 users, load average: 0.48, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192592k used, 4052844k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
```

```
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.47 pfm
31490 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
```

```

1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
11 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 khelper
top - 17:31:23 up 4 days, 18:31, 3 users, load average: 0.44, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192584k used, 4052852k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached

```

```

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
31493 sjan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
5004 svc-isn 20 0 118m 13m 6852 S 1.9 0.2 41:35.81 stp
10337 svc-isn 20 0 133m 11m 7948 S 1.9 0.1 1:42.81 mcecm
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
top - 17:31:29 up 4 days, 18:31, 3 users, load average: 0.41, 0.38, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192708k used, 4052728k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919616k cached

```

El tráfico causa CPU elevada el uso

Utilice estas herramientas cuando el tráfico causa CPU elevada el uso:

- **Ethalyzer** - Monitoree el tipo de tráfico a o desde el CPU.
- **Configuración** - Marque la configuración del Switch/de la interfaz/de la característica
- **CoPP/limitador de la tarifa del hardware** - Asegúrese que CoPP y HWRL estén configurados correctamente. El CPU no pudo ejecutarse a veces arriba porque está siendo protegido por CoPP y los limitadores de la tarifa. Marque CoPP y HWRL para ver si hay descensos con certeza trafican/los paquetes.

Nota: CoPP y HWRL están disponibles solamente del contexto predeterminado del dispositivo virtual (VDC). Son aplicados por cada uno individual módulo I/O. El tráfico total de los módulos múltiples puede todavía cargar el CPU pesadamente.

Análisis de la causa de raíz CPU elevada del uso

Una interrupción de la red se puede resolver por la intervención del usuario, o puede recuperarse en sí mismo. Si usted sospecha que CPU elevada el uso causó una interrupción de la red, utilice estas guías de consulta para investigar las causas.

Síntomas

Los síntomas CPU elevada del uso incluyen la inestabilidad plana del control, los problemas de conectividad planos de los datos causados por el error del avión del control, el cambio del protocolo tal como inhabilitar del cambio del Hot Standby Router Protocol (HSRP) /RP, del error UDLD, error del Spanning Tree Protocol (STP), y otros problemas de conectividad.

Historial CPU

comando show processes cpu history

Si el Switch no fue recargado ni fue conmutado encima, funcione con el **comando show processes cpu history** en el plazo de 72 horas de la caída del sistema para ver si CPU elevada el uso ocurrió a la hora del evento.

CoPP y HWRL

Si CPU elevada el uso era la causa raíz de a más allá de la caída del sistema, y si usted sospecha que la caída del sistema fue accionada por el tráfico de la red, usted puede utilizar CoPP y HWRL (limitador de la tarifa del hardware) para ayudar a identificar el tipo de tráfico.

comando de la controle de plano del show policy-map interface

Ésta es salida de muestra del comando de la controle de plano del show policy-map interface:

```
switch# show system internal processes cpu 5 | no-more
top - 17:31:12 up 4 days, 18:31, 3 users, load average: 0.52, 0.40, 0.32
Tasks: 449 total, 3 running, 446 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192740k used, 4052696k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.25 pfm
31487 sjlan 20 0 3732 1652 1140 R 5.6 0.0 0:00.05 top
3059 svc-isan 20 0 80288 7536 4440 S 3.8 0.1 65:44.59 diagmgr
3192 root 20 0 334m 47m 11m S 1.9 0.6 25:36.52 netstack
3578 svc-isan 20 0 118m 13m 6952 S 1.9 0.2 24:57.36 stp
5119 svc-isan 20 0 139m 14m 7028 S 1.9 0.2 3:48.60 urib
5151 root 20 0 209m 46m 11m S 1.9 0.6 38:53.39 netstack
5402 svc-isan 20 0 117m 15m 9140 S 1.9 0.2 36:07.13 stp
6175 svc-isan 20 0 118m 16m 9580 S 1.9 0.2 47:09.41 stp
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0

top - 17:31:18 up 4 days, 18:31, 3 users, load average: 0.48, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192592k used, 4052844k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.47 pfm
31490 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
```

```

2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
11 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 khelper
top - 17:31:23 up 4 days, 18:31, 3 users, load average: 0.44, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192584k used, 4052852k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached

```

```

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
31493 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
5004 svc-isan 20 0 118m 13m 6852 S 1.9 0.2 41:35.81 stp
10337 svc-isan 20 0 133m 11m 7948 S 1.9 0.1 1:42.81 mcecm
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
top - 17:31:29 up 4 days, 18:31, 3 users, load average: 0.41, 0.38, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192708k used, 4052728k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919616k cached

```

muestre el *comando* <x> Mod del tarifa-limitador del hardware

Ésta es salida de muestra del comando 1 Mod del tarifa-limitador del hardware de la demostración anterior que la versión 6.1 NX-OS:

```

switch# show system internal processes cpu 5 | no-more
top - 17:31:12 up 4 days, 18:31, 3 users, load average: 0.52, 0.40, 0.32
Tasks: 449 total, 3 running, 446 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192740k used, 4052696k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.25 pfm
31487 sjlan 20 0 3732 1652 1140 R 5.6 0.0 0:00.05 top
3059 svc-isan 20 0 80288 7536 4440 S 3.8 0.1 65:44.59 diagmgr
3192 root 20 0 334m 47m 11m S 1.9 0.6 25:36.52 netstack
3578 svc-isan 20 0 118m 13m 6952 S 1.9 0.2 24:57.36 stp
5119 svc-isan 20 0 139m 14m 7028 S 1.9 0.2 3:48.60 urib
5151 root 20 0 209m 46m 11m S 1.9 0.6 38:53.39 netstack
5402 svc-isan 20 0 117m 15m 9140 S 1.9 0.2 36:07.13 stp
6175 svc-isan 20 0 118m 16m 9580 S 1.9 0.2 47:09.41 stp
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0

top - 17:31:18 up 4 days, 18:31, 3 users, load average: 0.48, 0.39, 0.32

```

```
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192592k used, 4052844k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
```

```
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.47 pfm
31490 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
11 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 khelper
top - 17:31:23 up 4 days, 18:31, 3 users, load average: 0.44, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192584k used, 4052852k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
```

```
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
31493 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
5004 svc-isan 20 0 118m 13m 6852 S 1.9 0.2 41:35.81 stp
10337 svc-isan 20 0 133m 11m 7948 S 1.9 0.1 1:42.81 mcecm
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
top - 17:31:29 up 4 days, 18:31, 3 users, load average: 0.41, 0.38, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192708k used, 4052728k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919616k cached
```

Esto es una salida de muestra del comando 1 Mod del tarifa-limitador del hardware de la demostración en la versión 6.1 NX-OS o más adelante:

```
switch# show system internal processes cpu 5 | no-more
top - 17:31:12 up 4 days, 18:31, 3 users, load average: 0.52, 0.40, 0.32
Tasks: 449 total, 3 running, 446 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192740k used, 4052696k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.25 pfm
31487 sjlan 20 0 3732 1652 1140 R 5.6 0.0 0:00.05 top
3059 svc-isan 20 0 80288 7536 4440 S 3.8 0.1 65:44.59 diagmgr
3192 root 20 0 334m 47m 11m S 1.9 0.6 25:36.52 netstack
3578 svc-isan 20 0 118m 13m 6952 S 1.9 0.2 24:57.36 stp
5119 svc-isan 20 0 139m 14m 7028 S 1.9 0.2 3:48.60 urib
5151 root 20 0 209m 46m 11m S 1.9 0.6 38:53.39 netstack
5402 svc-isan 20 0 117m 15m 9140 S 1.9 0.2 36:07.13 stp
6175 svc-isan 20 0 118m 16m 9580 S 1.9 0.2 47:09.41 stp
```



```
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
```

```
top - 17:31:18 up 4 days, 18:31, 3 users, load average: 0.48, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192592k used, 4052844k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
```

```
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.47 pfm
31490 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
```

```
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
11 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 khelper
top - 17:31:23 up 4 days, 18:31, 3 users, load average: 0.44, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192584k used, 4052852k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
```

```
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
31493 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
5004 svc-isana 20 0 118m 13m 6852 S 1.9 0.2 41:35.81 stp
10337 svc-isana 20 0 133m 11m 7948 S 1.9 0.1 1:42.81 mcecm
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
```

```
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
top - 17:31:29 up 4 days, 18:31, 3 users, load average: 0.41, 0.38, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192708k used, 4052728k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919616k cached
```

Busque cualquier clase con incrementar caído de la cuenta. Descubra si es normal para una clase que excede el umbral configurado.

Driver Inband

muestre a hardware el CPU-mac interno inband *[los contadores / stats / comando de los eventos]*

Utilice este comando para marcar para saber si hay descensos en el trayecto de la CPU, control de flujo XOFF, el máximo CPU reciben y transmiten las tarifas, y así sucesivamente.

```
switch# show system internal processes cpu 5 | no-more
top - 17:31:12 up 4 days, 18:31, 3 users, load average: 0.52, 0.40, 0.32
Tasks: 449 total, 3 running, 446 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192740k used, 4052696k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.25 pfm
31487 sjlan 20 0 3732 1652 1140 R 5.6 0.0 0:00.05 top
3059 svc-isan 20 0 80288 7536 4440 S 3.8 0.1 65:44.59 diagmgr
3192 root 20 0 334m 47m 11m S 1.9 0.6 25:36.52 netstack
3578 svc-isan 20 0 118m 13m 6952 S 1.9 0.2 24:57.36 stp
5119 svc-isan 20 0 139m 14m 7028 S 1.9 0.2 3:48.60 urib
5151 root 20 0 209m 46m 11m S 1.9 0.6 38:53.39 netstack
5402 svc-isan 20 0 117m 15m 9140 S 1.9 0.2 36:07.13 stp
6175 svc-isan 20 0 118m 16m 9580 S 1.9 0.2 47:09.41 stp
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
```

```
top - 17:31:18 up 4 days, 18:31, 3 users, load average: 0.48, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192592k used, 4052844k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
```

```
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.47 pfm
31490 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
11 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 khelper
```

```
top - 17:31:23 up 4 days, 18:31, 3 users, load average: 0.44, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192584k used, 4052852k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
```

```
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
31493 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
5004 svc-isan 20 0 118m 13m 6852 S 1.9 0.2 41:35.81 stp
10337 svc-isan 20 0 133m 11m 7948 S 1.9 0.1 1:42.81 mcecm
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
```

```
top - 17:31:29 up 4 days, 18:31, 3 users, load average: 0.41, 0.38, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
```

Mem: 8245436k total, 4192708k used, 4052728k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919616k cached

Después de la versión 5.X NX-OS, los “eventos” son un comando option que proporciona el tiempo en que se alcanzan los PAQUETES MÁXIMOS por segundo (PPS) reciben (RX) o transmiten (TX) la tarifa CPU. Este ejemplo muestra cómo determinar el tiempo en que el pico más reciente del tráfico CPU fue encontrado:

```
switch# show system internal processes cpu 5 | no-more
top - 17:31:12 up 4 days, 18:31, 3 users, load average: 0.52, 0.40, 0.32
Tasks: 449 total, 3 running, 446 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192740k used, 4052696k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.25 pfm
31487 sjlan 20 0 3732 1652 1140 R 5.6 0.0 0:00.05 top
3059 svc-isan 20 0 80288 7536 4440 S 3.8 0.1 65:44.59 diagmgr
3192 root 20 0 334m 47m 11m S 1.9 0.6 25:36.52 netstack
3578 svc-isan 20 0 118m 13m 6952 S 1.9 0.2 24:57.36 stp
5119 svc-isan 20 0 139m 14m 7028 S 1.9 0.2 3:48.60 urib
5151 root 20 0 209m 46m 11m S 1.9 0.6 38:53.39 netstack
5402 svc-isan 20 0 117m 15m 9140 S 1.9 0.2 36:07.13 stp
6175 svc-isan 20 0 118m 16m 9580 S 1.9 0.2 47:09.41 stp
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
```

```
top - 17:31:18 up 4 days, 18:31, 3 users, load average: 0.48, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192592k used, 4052844k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
```

```
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.47 pfm
31490 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
11 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 khelper
```

```
top - 17:31:23 up 4 days, 18:31, 3 users, load average: 0.44, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192584k used, 4052852k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
```

```
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
31493 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
5004 svc-isan 20 0 118m 13m 6852 S 1.9 0.2 41:35.81 stp
10337 svc-isan 20 0 133m 11m 7948 S 1.9 0.1 1:42.81 mcecm
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
```

```
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
top - 17:31:29 up 4 days, 18:31, 3 users, load average: 0.41, 0.38, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192708k used, 4052728k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919616k cached
```

muestre a sistema el pktmgr interno comando inband interno del <int> VDC

Utilice este comando de identificar la fuente de tráfico llevada en batea al CPU.

```
switch# show system internal processes cpu 5 | no-more
top - 17:31:12 up 4 days, 18:31, 3 users, load average: 0.52, 0.40, 0.32
Tasks: 449 total, 3 running, 446 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192740k used, 4052696k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.25 pfm
31487 sjlan 20 0 3732 1652 1140 R 5.6 0.0 0:00.05 top
3059 svc-isan 20 0 80288 7536 4440 S 3.8 0.1 65:44.59 diagmgr
3192 root 20 0 334m 47m 11m S 1.9 0.6 25:36.52 netstack
3578 svc-isan 20 0 118m 13m 6952 S 1.9 0.2 24:57.36 stp
5119 svc-isan 20 0 139m 14m 7028 S 1.9 0.2 3:48.60 urib
5151 root 20 0 209m 46m 11m S 1.9 0.6 38:53.39 netstack
5402 svc-isan 20 0 117m 15m 9140 S 1.9 0.2 36:07.13 stp
6175 svc-isan 20 0 118m 16m 9580 S 1.9 0.2 47:09.41 stp
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
```

```
top - 17:31:18 up 4 days, 18:31, 3 users, load average: 0.48, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192592k used, 4052844k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
```

```
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.47 pfm
31490 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
11 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 khelper
top - 17:31:23 up 4 days, 18:31, 3 users, load average: 0.44, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192584k used, 4052852k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
```

```
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
```

```

31493 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
5004 svc-isan 20 0 118m 13m 6852 S 1.9 0.2 41:35.81 stp
10337 svc-isan 20 0 133m 11m 7948 S 1.9 0.1 1:42.81 mcecm
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
top - 17:31:29 up 4 days, 18:31, 3 users, load average: 0.41, 0.38, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192708k used, 4052728k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919616k cached

```

Netstack/Pktmgr

Netstack es una pila IP completa implementada en el espacio del usuario del nexa 7000. Los componentes incluyen un administrador del paquete L2, un ARP, un administrador de la adyacencia, un IPv4, un protocolo Protocolo de control de mensajes de Internet (ICMP) v4 (ICMPv4), un IPv6, un ICMPv6, un TCP/UDP, y una biblioteca del socket. Cuando el tráfico al CPU está accionando CPU elevada el uso, usted ve a menudo que Netstack y su proceso respectivo se están ejecutando arriba.

muestre a sistema el comando status inband de los Datos en espera

Este ejemplo muestra cómo visualizar el algoritmo de envío a cola de Netstack funcionando:

```

switch# show system internal processes cpu 5 | no-more
top - 17:31:12 up 4 days, 18:31, 3 users, load average: 0.52, 0.40, 0.32
Tasks: 449 total, 3 running, 446 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192740k used, 4052696k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.25 pfm
31487 sjlan 20 0 3732 1652 1140 R 5.6 0.0 0:00.05 top
3059 svc-isan 20 0 80288 7536 4440 S 3.8 0.1 65:44.59 diagmgr
3192 root 20 0 334m 47m 11m S 1.9 0.6 25:36.52 netstack
3578 svc-isan 20 0 118m 13m 6952 S 1.9 0.2 24:57.36 stp
5119 svc-isan 20 0 139m 14m 7028 S 1.9 0.2 3:48.60 urib
5151 root 20 0 209m 46m 11m S 1.9 0.6 38:53.39 netstack
5402 svc-isan 20 0 117m 15m 9140 S 1.9 0.2 36:07.13 stp
6175 svc-isan 20 0 118m 16m 9580 S 1.9 0.2 47:09.41 stp
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0

top - 17:31:18 up 4 days, 18:31, 3 users, load average: 0.48, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192592k used, 4052844k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.47 pfm

```

```

31490 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
11 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 khelper
top - 17:31:23 up 4 days, 18:31, 3 users, load average: 0.44, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192584k used, 4052852k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached

```

```

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
31493 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
5004 svc-isan 20 0 118m 13m 6852 S 1.9 0.2 41:35.81 stp
10337 svc-isan 20 0 133m 11m 7948 S 1.9 0.1 1:42.81 mcecm
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
top - 17:31:29 up 4 days, 18:31, 3 users, load average: 0.41, 0.38, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192708k used, 4052728k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919616k cached

```

muestre a sistema el comando statistics inband de los Datos en espera

Este ejemplo muestra los contadores en el proceso corazón-cargable del espacio del módulo (KLM) y del usuario.

KLM es una instancia única que los funcionamientos en el valor por defecto VDC y actúan encendido el inband y la interfaz de administración. KLM viene adentro a la imagen solamente durante el paquete de ingreso que procesa para enviar las tramas del ingreso al Netstack VDC derecho para procesar.

```

switch# show system internal processes cpu 5 | no-more
top - 17:31:12 up 4 days, 18:31, 3 users, load average: 0.52, 0.40, 0.32
Tasks: 449 total, 3 running, 446 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192740k used, 4052696k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.25 pfm
31487 sjlan 20 0 3732 1652 1140 R 5.6 0.0 0:00.05 top
3059 svc-isan 20 0 80288 7536 4440 S 3.8 0.1 65:44.59 diagmgr
3192 root 20 0 334m 47m 11m S 1.9 0.6 25:36.52 netstack
3578 svc-isan 20 0 118m 13m 6952 S 1.9 0.2 24:57.36 stp
5119 svc-isan 20 0 139m 14m 7028 S 1.9 0.2 3:48.60 urib
5151 root 20 0 209m 46m 11m S 1.9 0.6 38:53.39 netstack

```

```
5402 svc-isan 20 0 117m 15m 9140 S 1.9 0.2 36:07.13 stp
6175 svc-isan 20 0 118m 16m 9580 S 1.9 0.2 47:09.41 stp
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
```

```
top - 17:31:18 up 4 days, 18:31, 3 users, load average: 0.48, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192592k used, 4052844k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
```

```
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.47 pfm
31490 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
11 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 khelper
```

```
top - 17:31:23 up 4 days, 18:31, 3 users, load average: 0.44, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192584k used, 4052852k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
```

```
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
31493 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
5004 svc-isan 20 0 118m 13m 6852 S 1.9 0.2 41:35.81 stp
10337 svc-isan 20 0 133m 11m 7948 S 1.9 0.1 1:42.81 mcecm
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
```

```
top - 17:31:29 up 4 days, 18:31, 3 users, load average: 0.41, 0.38, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192708k used, 4052728k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919616k cached
```

muestre a sistema el pktmgr interno comando interno global-stats VDC

Este comando es similar al comando **statistics inband** de los Datos en espera del sistema precedente de la **demostración** y proporciona muchos detalles:

```
switch# show system internal processes cpu 5 | no-more
top - 17:31:12 up 4 days, 18:31, 3 users, load average: 0.52, 0.40, 0.32
Tasks: 449 total, 3 running, 446 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192740k used, 4052696k free, 27644k buffers
```

```
Swap: 0k total, 0k used, 0k free, 1919612k cached
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.25 pfm
31487 sjlan 20 0 3732 1652 1140 R 5.6 0.0 0:00.05 top
3059 svc-isan 20 0 80288 7536 4440 S 3.8 0.1 65:44.59 diagmgr
3192 root 20 0 334m 47m 11m S 1.9 0.6 25:36.52 netstack
3578 svc-isan 20 0 118m 13m 6952 S 1.9 0.2 24:57.36 stp
5119 svc-isan 20 0 139m 14m 7028 S 1.9 0.2 3:48.60 urib
5151 root 20 0 209m 46m 11m S 1.9 0.6 38:53.39 netstack
5402 svc-isan 20 0 117m 15m 9140 S 1.9 0.2 36:07.13 stp
6175 svc-isan 20 0 118m 16m 9580 S 1.9 0.2 47:09.41 stp
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
```

```
top - 17:31:18 up 4 days, 18:31, 3 users, load average: 0.48, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192592k used, 4052844k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
```

```
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.47 pfm
31490 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
11 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 khelper
```

```
top - 17:31:23 up 4 days, 18:31, 3 users, load average: 0.44, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192584k used, 4052852k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
```

```
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
31493 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
5004 svc-isan 20 0 118m 13m 6852 S 1.9 0.2 41:35.81 stp
10337 svc-isan 20 0 133m 11m 7948 S 1.9 0.1 1:42.81 mcecm
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
```

```
top - 17:31:29 up 4 days, 18:31, 3 users, load average: 0.41, 0.38, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192708k used, 4052728k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919616k cached
```

muestre a sistema el comando interno del <int> de las interfaces Ethernet del pktmgr

Utilice este comando para mirar la velocidad de paquetes así como el tipo de tráfico (unicast o Multicast) para el tráfico CPU-llevado en batea de una interfaz.

```
switch# show system internal processes cpu 5 | no-more
top - 17:31:12 up 4 days, 18:31, 3 users, load average: 0.52, 0.40, 0.32
Tasks: 449 total, 3 running, 446 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192740k used, 4052696k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.25 pfm
31487 sjlan 20 0 3732 1652 1140 R 5.6 0.0 0:00.05 top
3059 svc-isan 20 0 80288 7536 4440 S 3.8 0.1 65:44.59 diagmgr
3192 root 20 0 334m 47m 11m S 1.9 0.6 25:36.52 netstack
3578 svc-isan 20 0 118m 13m 6952 S 1.9 0.2 24:57.36 stp
5119 svc-isan 20 0 139m 14m 7028 S 1.9 0.2 3:48.60 urib
5151 root 20 0 209m 46m 11m S 1.9 0.6 38:53.39 netstack
5402 svc-isan 20 0 117m 15m 9140 S 1.9 0.2 36:07.13 stp
6175 svc-isan 20 0 118m 16m 9580 S 1.9 0.2 47:09.41 stp
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
```

```
top - 17:31:18 up 4 days, 18:31, 3 users, load average: 0.48, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192592k used, 4052844k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
```

```
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.47 pfm
31490 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
11 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 khelper
```

```
top - 17:31:23 up 4 days, 18:31, 3 users, load average: 0.44, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192584k used, 4052852k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
```

```
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
31493 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
5004 svc-isan 20 0 118m 13m 6852 S 1.9 0.2 41:35.81 stp
10337 svc-isan 20 0 133m 11m 7948 S 1.9 0.1 1:42.81 mcecm
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
```

```
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
top - 17:31:29 up 4 days, 18:31, 3 users, load average: 0.41, 0.38, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192708k used, 4052728k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919616k cached
```

muestre a sistema el comando interno del <uid> del cliente del pktmgr

Este comando visualiza las aplicaciones tales como STP o el Cisco Discovery Protocol (CDP) que se registran con el administrador del paquete así como el número de paquetes enviados y recibidos por esas aplicaciones.

```
switch# show system internal processes cpu 5 | no-more
top - 17:31:12 up 4 days, 18:31, 3 users, load average: 0.52, 0.40, 0.32
Tasks: 449 total, 3 running, 446 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192740k used, 4052696k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.25 pfm
31487 sjlan 20 0 3732 1652 1140 R 5.6 0.0 0:00.05 top
3059 svc-isan 20 0 80288 7536 4440 S 3.8 0.1 65:44.59 diagmgr
3192 root 20 0 334m 47m 11m S 1.9 0.6 25:36.52 netstack
3578 svc-isan 20 0 118m 13m 6952 S 1.9 0.2 24:57.36 stp
5119 svc-isan 20 0 139m 14m 7028 S 1.9 0.2 3:48.60 urib
5151 root 20 0 209m 46m 11m S 1.9 0.6 38:53.39 netstack
5402 svc-isan 20 0 117m 15m 9140 S 1.9 0.2 36:07.13 stp
6175 svc-isan 20 0 118m 16m 9580 S 1.9 0.2 47:09.41 stp
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
```

```
top - 17:31:18 up 4 days, 18:31, 3 users, load average: 0.48, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192592k used, 4052844k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
```

```
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.47 pfm
31490 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
11 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 khelper
```

```
top - 17:31:23 up 4 days, 18:31, 3 users, load average: 0.44, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192584k used, 4052852k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
```

```
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
31493 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
5004 svc-isan 20 0 118m 13m 6852 S 1.9 0.2 41:35.81 stp
```

```

10337 svc-isan 20 0 133m 11m 7948 S 1.9 0.1 1:42.81 mcecm
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
top - 17:31:29 up 4 days, 18:31, 3 users, load average: 0.41, 0.38, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192708k used, 4052728k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919616k cached

```

muestre a sistema el comando interno stats del pktmgr

Utilice este comando para marcar si los paquetes están alcanzando al administrador del paquete en el trayecto de ingreso y si los paquetes están siendo enviados por el administrador del paquete. Este comando puede también ayudarle a determinar si hay problemas con los mbuffers en la recepción o a transmitir la trayectoria.

```

switch# show system internal processes cpu 5 | no-more
top - 17:31:12 up 4 days, 18:31, 3 users, load average: 0.52, 0.40, 0.32
Tasks: 449 total, 3 running, 446 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192740k used, 4052696k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.25 pfm
31487 sjlan 20 0 3732 1652 1140 R 5.6 0.0 0:00.05 top
3059 svc-isan 20 0 80288 7536 4440 S 3.8 0.1 65:44.59 diagmgr
3192 root 20 0 334m 47m 11m S 1.9 0.6 25:36.52 netstack
3578 svc-isan 20 0 118m 13m 6952 S 1.9 0.2 24:57.36 stp
5119 svc-isan 20 0 139m 14m 7028 S 1.9 0.2 3:48.60 urib
5151 root 20 0 209m 46m 11m S 1.9 0.6 38:53.39 netstack
5402 svc-isan 20 0 117m 15m 9140 S 1.9 0.2 36:07.13 stp
6175 svc-isan 20 0 118m 16m 9580 S 1.9 0.2 47:09.41 stp
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0

top - 17:31:18 up 4 days, 18:31, 3 users, load average: 0.48, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192592k used, 4052844k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached

```

```

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2908 root 20 0 112m 8516 5516 S 7.5 0.1 264:44.47 pfm
31490 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1

```

```
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
11 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 khelper
top - 17:31:23 up 4 days, 18:31, 3 users, load average: 0.44, 0.39, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192584k used, 4052852k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919612k cached
```

```
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
31493 sjlan 20 0 3732 1656 1140 R 3.8 0.0 0:00.04 top
5004 svc-isan 20 0 118m 13m 6852 S 1.9 0.2 41:35.81 stp
10337 svc-isan 20 0 133m 11m 7948 S 1.9 0.1 1:42.81 mcecm
1 root 20 0 1988 604 524 S 0.0 0.0 0:06.51 init
2 root 15 -5 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root RT -5 0 0 0 S 0.0 0.0 0:00.08 migration/0
4 root 15 -5 0 0 0 S 0.0 0.0 1:07.77 ksoftirqd/0
5 root -2 -5 0 0 0 S 0.0 0.0 0:13.74 watchdog/0
6 root RT -5 0 0 0 S 0.0 0.0 0:00.10 migration/1
7 root 15 -5 0 0 0 S 0.0 0.0 0:54.47 ksoftirqd/1
8 root -2 -5 0 0 0 S 0.0 0.0 0:00.20 watchdog/1
9 root 15 -5 0 0 0 S 0.0 0.0 0:02.94 events/0
10 root 15 -5 0 0 0 S 0.0 0.0 0:02.58 events/1
top - 17:31:29 up 4 days, 18:31, 3 users, load average: 0.41, 0.38, 0.32
Tasks: 449 total, 1 running, 448 sleeping, 0 stopped, 0 zombie
Cpu(s): 3.5%us, 4.5%sy, 0.0%ni, 91.2%id, 0.1%wa, 0.1%hi, 0.5%si, 0.0%st
Mem: 8245436k total, 4192708k used, 4052728k free, 27644k buffers
Swap: 0k total, 0k used, 0k free, 1919616k cached
```