

Guide de dépannage élevé d'utilisation du CPU de Nexus 7000

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Introduction

Ce document décrit des commandes et des processus communs de surveiller l'utilisation du CPU et de dépanner les questions élevées d'utilisation du CPU sur des Plateformes de gamme 7000 de Cisco Nexus. Les commandes et le script témoin EEM sont basés sur la version 6.1 de Nexus 7000 et plus tôt et sont sujets au changement des versions futures.

Utilisation du CPU sur des Plateformes de Nexus 7000

La plate-forme de Nexus 7000 est un système de Linux avec un programmeur de préemption qui permet l'accès équitable aux ressources CPU pour tous les processus. À la différence de la gamme Cisco Catalyst 6500, il n'y a aucun processeur distinct d'artère (RP) et processeur de commutateur (fournisseur de services). L'engine 1 de superviseur a un processeur dual core, le Supervisor Engine 2 a un processeur de quad-noyau, et l'engine 2E de superviseur a deux processeurs de quad-noyau.

Le système d'exploitation de Cisco NX-OS tire profit de la multitâche de préemption CPU, ainsi les processus peuvent tirer profit d'une CPU d'inactif afin de se terminer des tâches plus rapides. Par conséquent, l'option d'historique peut signaler les pics CPU qui n'indiquent pas nécessairement un problème. Cependant, si l'utilisation du CPU moyenne demeure haute comparée à la normale, utilisation du CPU de spécification de base pour un réseau particulier, vous pourriez devoir étudier l'utilisation du CPU élevée.

Les bornes par défaut de débit de matériel (HWRL) et la Réglementation du plan de commande par défaut (CoPP) sont activées aider à protéger l'interface intrabande de superviseur sur des Plateformes de Nexus 7000.

Commandes et scripts aux processus de surveillance et aux CPU

Commandes

[L'analyseur de Cisco CLI](#) (clients [enregistrés](#) seulement) prend en charge certaines **commandes show**. Employez l'analyseur de Cisco CLI afin de visualiser une analyse de sortie de commande show.

commande de show processes

Employez cette commande afin d'afficher des informations sur des processus actifs.

```
switch# show processes
```

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

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

Champ	Description
PID	ID du processus
État	État de processus
PC	Compteur de programme en cours dans le format hexadécimal
Start_cnt	Nombre de fois où un processus a été commencé ou redémarré
Téléscripteur	Terminal qui contrôle le processus. Un trait d'union (--) signifie habituellement un démon ne s'exécutant pas sur n'importe quel terminal particulier.
Processus	Nom du processus

État de processus Description

D	Sommeil non interrompible (habituellement E/S)
R	Praticable (sur la file d'attente de passage)
S	Sommeil
T	Tracé ou arrêté
Z	Processus défunt (de zombie)
NR	Ne s'exécutant pas
ER	Devrait s'exécuter mais ne pas s'exécuter actuellement

commande de ressources en show system

Employez cette commande afin d'afficher des statistiques reliées au système de CPU et mémoire.

```
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
```

Champ Description

Chargement	Nombre de processus qui s'exécutent. La moyenne reflète la charge du système au cours des 1, 5, et 15 minutes passées.
Processus	Nombre de processus dans le système et combien de processus s'exécutent réellement quand la commande est émise.
État CPU	Pourcentage d'utilisation du CPU dans le mode utilisateur, le mode noyau, et le temps d'inactivité dans dernière une seconde. Pour un superviseur du double coeur, la CPU est ramenée à une moyenne à travers les deux noyaux.
Utilisation de mémoire	Mémoire totale, mémoire utilisée, mémoire disponible, mémoire utilisée pour des mémoires tampons, et mémoire utilisée pour le cache dans les kilo-octets. Des mémoires tampons et le cache sont inclus en statistiques utilisées de mémoire.

[commande show processes cpu](#)

Employez cette commande afin d'afficher l'utilisation du CPU au niveau de processus :

```
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

Champ Description

Runtime(ms)	Temps- CPU que le processus a utilisé en quelques millisecondes
-------------	---

Appelé Nombre de fois où le processus a été appelé
 uSecs Temps- CPU moyen pour chaque appel de processus en quelques microsecondes
 1Sec Pourcentage de l'utilisation du CPU pour dernière une seconde

Pour découvrir l'utilisation du CPU pour tous les thread qui appartiennent à un ID de processus spécifique (PID), utilisez la commande de *<pid> de détail CPU de processus d'exposition*, qui est disponible dans la version 6.2x NX-OS.

commande d'historique de show processes cpu

Employez cette commande afin d'afficher l'utilisation du CPU pour les 60 dernières secondes, 60 minutes, et 72 heures. Soyez sûr de vérifier l'utilisation du CPU moyenne (#) et les pics (*).

```
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%
```

```
22222222422122221222222222642222112221222222222222121221412
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
666765454544445544555669844465554466654464446069464554545555665544444474
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%

affichez la commande de processus de <pid> de détail CPU

Cette commande, qui a été ajoutée dans la version 6.2, affiche les informations d'utilisation du CPU pour tous les thread qui appartiennent à une particularité PID.

```

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

```

Remarque: Toutes les informations sur le processus sont basées sur le « proc » dans NX-OS. Dans NX-OS, tous les thread partagent la mémoire allouée par n'importe quel autre thread, ainsi il n'est pas possible d'afficher par informations de thread.

commande CPU de processus internes de show system

Cette commande est équivalente à la commande **supérieure** dans le Linux, qui fournit un actuel regarde l'activité de processeur en temps réel.

```
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

```

Champ

Description

PID

ID du processus

UTILISATEUR Nom d'utilisateur qui possède le processus

RP Priorité assignée au processus

Ni Valeur de nice du processus

VIRT Quantité de mémoire virtuelle utilisée par le processus

Recherche Quantité de RAM physique que le processus utilise (sa taille résidente) dans les kilo-octet

SHR
S

Quantité de mémoire partagée utilisée par le processus
Statut du processus. Les valeurs possibles incluent :

- D - Sommeil d'Uninterruptibly
- R - S'exécuter
- S - Sommeil
- T - Tracé ou arrêté
- Z - Zombied

%CPU

Pourcentage du temps- CPU utilisé par le processus

%MEM

Pourcentage de la RAM physique disponible utilisée par le processus

TIME+

Quantité totale de temps- CPU que le processus a consommé depuis qu'il a été commencé

COMMANDE

Nom de la commande qui a été sélectionnée pour commencer le processus

« `{#seconds} | plus de` » option ne permet la commande d'être chaque exécuté des `#seconds` automatiquement jusqu'à ce qu'un **CTRL-C** soit écrit. C'est sortie témoin :

```
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
```

commande interne de `<pid>` du service PID de `sysmgr` de `show system`

Employez cette commande afin d'afficher des détails supplémentaires, tels que le temps de reprise, l'état de crash, et l'état actuel, sur le processus/service par 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

```

Script témoin EEM

C'est un exemple de script qui capture l'utilisation du CPU élevée intermittente. Les valeurs utilisées aussi bien que les commandes émises peuvent être modifiées selon les conditions requises :

```

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

```

Remarque: Il est nécessaire de définir la « sortie-val. » Pendant que le script collecte des données, il augmente l'utilisation du processeur. Une valeur pour la sortie-val s'assure que le script ne fonctionne pas dans une boucle sans fin.

Utilisation du CPU élevée provoquée par le processus ou le trafic

Il n'y a aucun processus contre l'utilisation du CPU d'interruption (comme sur des plates-formes logicielles de Cisco IOS®) quand l'utilisation du CPU est surveillée. Un moyen rapide de déterminer la cause de l'utilisation du CPU élevée est d'utiliser la commande [CPU de processus internes de show system](#). En grande partie vraisemblablement, l'utilisation du CPU élevée déclenchée par le trafic ferait pour exécuter Netstack, aussi bien que d'autres caractéristiques et processus tels que le Protocole ARP (Address Resolution Protocol) et le Protocole IGMP (Internet Group Management Protocol), élevé.

Le processus entraîne l'utilisation du CPU élevée

Selon les processus et les questions qui entraînent l'utilisation du CPU élevée, vous pouvez devoir

capturer des commandes spécifiques. Ces sections décrivent les méthodes qui pourraient être utiles.

<feature> interne mem-stats/memstats de show system | dans la commande grande

Employez cette commande afin d'afficher l'allocation de mémoire pour un processus ; utilisez « dans » l'option grande de surveiller la mémoire de total général. Une fuite de mémoire peut faire conduire mal un processus, qui peut avoir comme conséquence l'utilisation du CPU élevée.

Ethanalyzer

Utilisation Ethanalyzer de surveiller le trafic à la CPU.

commandes de débogage

Remarque: Référez-vous aux [informations importantes sur les commandes de débogage](#) avant d'utiliser les commandes de débogage. Utilisez les commandes de débogage sagement sur un commutateur de production d'éviter l'interruption de service.

Utilisez la commande de **debug logfile** autant que possible pour diriger la sortie vers un fichier spécifié et pour l'éviter de bloquer la session pour remplir le Syslog. C'est un exemple de mettre au point le Protocole SNMP (Simple Network Management Protocol) :

```
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
```

Utilisez la commande de debug-filtre si possible afin de réduire la sortie sur un système de production. Par exemple, une perte de paquets entraîne à Protocole UDLD (UniDirectional Link Detection) l'écho vide :

```
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

```

Le trafic entraîne l'utilisation du CPU élevée

Utilisez ces outils quand le trafic entraîne l'utilisation du CPU élevée :

- **Ethalyzer** - Surveillez le type de trafic à ou de la CPU.
- **Configuration** - Vérifiez la configuration de commutateur/interface/caractéristique
- **CoPP/borne débit de matériel** - Assurez que CoPP et HWRL sont configurés correctement. Parfois la CPU ne pourrait pas exécuter élevé parce qu'elle est protégée par CoPP et bornes de débit. Vérifiez CoPP et HWRL pour voir s'il y a des baisses pour le certains trafic/paquets.

Remarque: CoPP et HWRL sont fournis seulement par le contexte par défaut de périphérique virtuel (volts continu). Ils sont imposés par chaque module individuel E/S. L'ensemble du trafic des plusieurs modules peut encore charger la CPU fortement.

Analyse de cause principale de l'utilisation du CPU élevée

Une panne de réseau peut être résolue par l'intervention de l'utilisateur, ou elle peut récupérer par

lui-même. Si vous suspectez que l'utilisation du CPU élevée ait entraîné une panne de réseau, employez ces instructions afin d'étudier des causes.

Symptômes

Les symptômes de l'utilisation du CPU élevée incluent l'instabilité plate de contrôle, les problèmes de connectivité de plan de données provoqués par panne d'avion de contrôle, le lien instable de protocole tel que désactiver de lien instable du Protocole HSRP (Hot Standby Router Protocol) /RP, d'erreurs UDLD, la panne du Protocole Spanning Tree (STP), et d'autres problèmes de connectivité.

Historique CPU

commande d'historique de show processes cpu

Si le commutateur n'était pas rechargé ou était commuté plus de, exécutez la commande d'historique de show processes cpu dans un délai de 72 heures de la panne afin de voir si l'utilisation du CPU élevée se produisait au moment de l'événement.

CoPP et HWRL

Si l'utilisation du CPU élevée était la cause principale d'a après la panne, et si vous suspectez que la panne ait été déclenchée par le trafic réseau, vous pouvez employer CoPP et HWRL (borne de débit de matériel) afin d'aider à identifier le type de trafic.

commande de contrôle-avion de show policy-map interface

C'est sortie témoin de la commande de contrôle-avion de 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

```

affichez la commande de <x> modèle de débit-borne de matériel

C'est sortie témoin de la commande modèle 1 de débit-borne de matériel d'exposition plus tôt que la version 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
```

C'est un résultat témoin de la commande modèle 1 de débit-borne de matériel d'exposition dans version 6.1 NX-OS ou plus tard :

```
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
```

Recherchez n'importe quelle classe avec l'incrémentation relâchée de compte. Découvrez s'il est normal pour une classe dépassant le seuil configuré.

Gestionnaire intrabande

affichez à matériel le CPU-MAC interne intrabande *[des compteurs / stats / commande*

d'événements]

Employez cette commande afin de vérifier des baisses dans le chemin CPU, contrôle de flux XOFF, CPU de maximum reçoivent et transmettent des débits, et ainsi de suite.

```
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
```

Après version 5.X NX-OS, les « événements » est une option de commande qui fournit le moment où les paquets maximum par seconde (PPS) reçoivent (RX) ou transmettent (TX) le débit CPU est atteints. Cet exemple affiche comment déterminer le moment où la dernière crête du trafic CPU a été produite :

```
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

```

commande intrabande interne de <int> volts continu de pktmgr interne de show system

Utilisez cette commande d'identifier la source de trafic donnée un coup de volée à la 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 est une pile IP complète mise en application dans l'espace d'utilisateur du Nexus 7000. Les composants incluent un gestionnaire du paquet L2, un ARP, un gestionnaire de contiguïté, un ipv4, un Internet Control Message Protocol v4 (ICMPv4), un IPv6, un ICMPv6, un TCP/UDP, et une bibliothèque de socket. Quand le trafic à la CPU déclenche l'utilisation du CPU élevée, vous voyez souvent que Netstack et son processus respectif sont élevés courant.

commande intrabande d'état de Mise en file d'attente de show system

Cet exemple affiche comment afficher l'algorithme de queue de Netstack en service :

```
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
```

commande intrabande de statistiques de Mise en file d'attente de show system

Cet exemple affiche les compteurs dans le processus noyau-chargeable de l'espace de module (KLM) et d'utilisateur.

KLM est un exemple simple que les passages sur le par défaut volts continu et traite l'intrabande et l'interface de gestion. KLM entre à l'image seulement pendant le traitement de paquets d'entrée pour envoyer des trames d'entrée du bon au Netstack volts continu pour le traitement.

```
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
```

commande interne de global-stats volts continu de pktmgr interne de show system

Cette commande est semblable à la commande intrabande de statistiques de Mise en file d'attente de show system précédent et fournit beaucoup de détails :

```
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

commande interne de <int> d'Ethernets d'interface de pktmgr de show system

Employez cette commande afin de regarder le débit de paquets aussi bien que le type de trafic (unicast ou Multidiffusion) pour le trafic CPU-donné un coup de volée d'une 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

```

commande interne de <uid> de client de pktmgr de show system

Cette commande affiche des applications telles que STP ou Protocole CDP (Cisco Discovery Protocol) qui sont inscrits au gestionnaire de paquet aussi bien qu'au nombre de paquets envoyés et reçus par ces applications.

```

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
```

commande interne de stats de pktmgr de show system

Employez cette commande afin de vérifier si les paquets atteignent le gestionnaire de paquet dans le chemin d'entrée et si des paquets sont envoyés par le gestionnaire de paquet. Cette commande peut également vous aider à déterminer s'il y a des problèmes avec des mbuffers dans la réception ou à transmettre le chemin.

```
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
```