

Re: Determining cpu consumption

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From: Mark Schlechte (*mschlechte_at_REGINA.CA*)

Date: 05/03/05

Date: Tue, 3 May 2005 10:53:50 -0600
To: aix-l@Princeton.EDU

Thanks as always Holger.

>>> *Holger.VanKoll@SWISSCOM.COM* 05/03/05 10:41 am >>>
tprof -x sleep 60
will shed some light on kernel-usage
others forms of trace, too
also truss -P some_process_id
might help

I dont think you have very much faults, but the number of syscalls is very high. often caused by shellscripts with lots of pipes or other forms or process creation

From: IBM AIX Discussion List [mailto:aix-l@Princeton.EDU] On Behalf Of Mark Schlechte
Sent: Tuesday, May 03, 2005 6:31 PM
To: aix-l@Princeton.EDU
Subject: Determining cpu consumption

Greetings,

I'm looking for a little assistance on how to find what's consuming my cpu's.
This is a dual processor 7029-6C3, 2GB ram.

I posted about performance problems in that past and they have always been where I can see some I/O problems like a high hdisk utilization or my WA column being busy so I run vmstat, iostat or filemon. This time I have a different problem and my question is how do I determine what's running in sys and kernel mode when topas doesn't seem to reveal anything. Do I need nmon? Does my Paging Faults # seem kind of high?

Some example outputs included.

```
                                Syscall 29903 Writech 25199
Kernel 48.0 |#####| Reads 1240 Rawin 0
User 52.0 |#####| Writes 124 Ttyout 397
Wait 0.0 || Forks 112 Igets 0
Idle 0.0 || Execs 139 Namei 13645
                                Runqueue 8.5 Dirblk 0
Name PID CPU% PgSp Owner Waitqueue 0.0
jre 581660 1.4 21.5 oracle
perl 860244 0.7 3.6 oracle PAGING MEMORY
```

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```

topas 606356 0.7 2.0 root Faults 28764 Real,MB 2047
perl 827412 0.7 1.4 oracle Steals 0 % Comp 60.2
oidldapd 491774 0.5 27.9 oracle PgsPIn 0 % Noncomp 39.8
endpoint 180402 0.5 0.6 root PgsPOut 0 % Client 6.2
dtgreet 274630 0.3 1.7 root PageIn 0
java 557072 0.2 47.8 oracle PageOut 3 PAGING SPACE
oidldapd 487672 0.2 9.5 oracle Sios 2 Size,MB 4608
syncd 77918 0.0 0.6 root % Used 32.0
IBM.CSMAg 307352 0.0 2.1 root NFS (calls/sec) % Free 67.9
emagent 1097738 0.0 55.9 oracle ServerV2 0
oracle 598056 0.0 3.2 oracle ClientV2 0 Press:
oracle 372918 0.0 3.2 oracle ServerV3 0 "h" for help
java 552998 0.0 76.4 oracle ClientV3 0 "q" to quit
gil 45078 0.0 0.1 root
webcached 716910 0.0 9.0 oracle

```

```

ROOT > vmstat 2
System Configuration: lcpu=2 mem=2048MB
kthr memory page faults cpu

```

```

-----
r b avm fre re pi po fr sr cy in sy cs us sy id wa
3 1 566255 7297 0 0 0 27 89 0 1389 23549 4213 9 19 70 2
1 0 566248 7303 0 0 0 0 0 1245 57666 3423 32 34 34 0
3 0 566746 6803 0 0 0 0 0 1208 46799 3523 23 48 29 0
6 0 567849 5700 0 0 0 0 0 998 72229 2920 16 67 17 0
11 0 567989 5547 0 0 0 0 0 723 49194 2089 18 82 0 0
8 0 567520 6016 0 0 0 0 0 885 41116 2298 36 64 0 0
6 0 567488 6047 0 0 0 0 0 1072 30745 2678 56 43 1 0
5 0 567716 5820 0 0 0 0 0 907 39524 2102 42 58 0 0
6 0 566087 7449 0 0 0 0 0 1199 46564 2940 28 64 8 0
3 0 567220 6316 0 0 0 0 0 1298 43683 3699 16 57 27 0
3 0 567189 6347 0 0 0 0 0 1234 37332 3671 20 58 22 0
1 0 567308 6227 0 0 0 0 0 1298 24926 3640 28 38 33 0
5 0 567195 6340 0 0 0 0 0 1464 22643 3815 31 33 35 1
1 0 565715 7820 0 0 0 0 0 1587 31954 4168 21 46 33 0
0 0 565715 7820 0 0 0 0 0 1471 6298 4743 1 3 96 0
5 0 566400 7134 0 0 0 0 0 1521 77401 4479 11 17 71 2
2 0 565715 7819 0 0 0 0 0 1740 13414 4856 9 12 78 1
0 0 566660 6909 0 0 0 0 0 1533 44926 4725 7 5 88 0
6 0 565715 7816 0 0 0 0 0 1470 8164 4650 4 3 93 0
1 0 565715 7814 0 0 0 0 0 1657 11106 4866 5 2 92 1

```

```

17:ROOT > topten
Tue May 3 10:20:28 CST 2005
10:20AM up 23 days, 51 mins, 6 users, load average: 4.50, 3.71, 3.40

```

```

TOP TEN SORTED BY CPU USE
USER PID %CPU %MEM SZ RSS TTY STAT STIME TIME COMMAND
root 12294 38.1 0.0 48 40 - A Apr 10 25300:42 wait
root 8196 33.9 0.0 48 44 - A Apr 10 22486:52 wait
oracle 581660 1.3 0.0 22032 8344 - A Apr 10 885:09 /app/oracle/jre
oracle 491774 0.9 0.0 36276 600 - A Apr 10 613:39 oidldapd

```

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```
oracle 1097738 0.3 1.0 57320 28780 – A Apr 28 42:53 /app/oracle/pro
root 77918 0.2 0.0 640 264 – A Apr 10 142:16 /usr/sbin/syncd
sde 1126512 0.2 1.0 10464 10496 – A 08:39:22 0:23 /sde/v9.0/cgisp
oracle 598056 0.1 1.0 44316 14840 – A Apr 10 34:34 oracleiasdb (LO
root 180402 0.1 0.0 1304 296 – A Apr 10 63:29 /usr/lpp/NetIQ/
root 274630 0.1 0.0 1764 256 – A Apr 10 94:59 dtgreet
```

I think it may be related to some runaway oracle process (like PID 581660) but I can't figure out how to track that down.

Mark

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