

Dynticks Causing High Context Switch Rate in ksoftirqd

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2007-11/msg09534.html>

- *From:* bdupree@xxxxxxxxxxxxxxxxxx
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I built the same dynticks-enabled 2.6.23.9 kernel on a nearly identical system with minor changes to reflect the slightly different hardware. These two systems have identical MSI E7210 MasterX FA6R motherboards (same model and revision.) The differences are as follows:

behemoth (using Slackware 10.2)

dual 2.4 GHz Xeons 400 MHz FSB
LSI 53c1030 PCI-X Fusion-MPT Dual Ultra320 SCSI
Newer SATA/PATA Intel PIIX drivers

titan (using Slackware 11.0)

dual 2.0 GHz Xeons 533 MHz FSB
Creative Labs SB Audigy LS (using ALSA driver)
Older IDE PATA Intel PIIX drivers

The result is that "behemoth" continues to exhibit 155,000 context switches per second at idle while "titan" shows about 25 - 30 context switches per second. Note that motherboard BIOS'es are at the same revision and configured identically.

I guess (ugh) it's time for me to pull the MPT-Fusion U320 HBA and the SATA disks out of "behemoth" and configure it with old style IDE drives to be as close as possible to "titan." Then I can add parts back and see when the problem occurs.

Best regards,

--Bill DuPree

P.S. See attachment for config details and other data.

Question: Why is ksoftirqd eating about 5 to 10 percent of my CPU on an idle system? The problem goes away if I config the kernel without tickless support (i.e. CONFIG_TICK_ONESHOT=n). (Thanks to "oprofile" for putting me onto this.)

Dynticks Causing High Context Switch Rate in ksoftirqd

I have noted this same problem on (vanilla) kernel versions: 2.6.23.1, 2.6.23.8 and 2.6.23.9

```
*****
*** Output from "vmstat -n 1 10" --- Note very high context switch rate ***
*** This is on a idle machine! ***
*****
```

```
procs -----memory-----swap-----io-----system-- -----cpu-----
r b swpd free buff cache si so bi bo in cs us sy id wa
0 0 0 1925556 4768 116104 0 0 124 2 6 7538 1 2 96 1
0 0 0 1925556 4768 116104 0 0 0 0 2 147329 0 1 99 0
0 0 0 1925548 4768 116104 0 0 0 0 0 154515 0 1 99 0
0 0 0 1925548 4768 116104 0 0 0 0 1 153898 0 2 98 0
0 0 0 1925548 4780 116104 0 0 0 16 3 155216 0 1 99 0
0 0 0 1925548 4780 116104 0 0 0 0 1 161718 0 1 99 0
0 0 0 1925548 4780 116104 0 0 0 0 0 147587 0 2 98 0
0 0 0 1925548 4780 116104 0 0 0 0 1 153524 0 2 98 0
0 0 0 1925448 4780 116104 0 0 0 0 0 153434 0 1 99 0
0 0 0 1925448 4792 116092 0 0 0 16 4 153527 0 2 98 0
```

```
*****
*** Output from PowerTop ***
*****
```

PowerTOP version 1.9 (C) 2007 Intel Corporation

P-states (frequencies)

2.40 Ghz 100.0%

900 Mhz 0.0%

600 Mhz 0.0%

300 Mhz 0.0%

< Detailed C-state information is only available on Mobile CPUs (laptops) >

Wakeups-from-idle per second : 29.1 interval: 3.0s

Top causes for wakeups:

50.6% (26.0) ifconfig : br_stp_enable_bridge (br_hello_timer_expired)

15.6% (8.0) <kernel module> : usb_hcd_poll_rh_status (rh_timer_func)

11.0% (5.7) postgres : schedule_timeout (process_timeout)

3.9% (2.0) <kernel core> : br_transmit_config (br_hold_timer_expired)

3.9% (2.0) <kernel core> : clocksource_check_watchdog (clocksource_watchdog)

1.9% (1.0) ifconfig : br_stp_enable_bridge (br_fdb_cleanup)

1.9% (1.0) sshout : do_nanosleep (hrtimer_wakeup)

1.9% (1.0) httpd : schedule_timeout (process_timeout)

1.9% (1.0) <kernel core> : edac_pci_add_device (delayed_work_timer_fn)

1.9% (1.0) <kernel core> : edac_mc_add_mc (delayed_work_timer_fn)

1.3% (0.7) <interrupt> : libata, eth0

0.6% (0.3) <kernel module> : neigh_table_init_no_netlink (neigh_periodic_timer)

Dynticks Causing High Context Switch Rate in ksoftirqd

0.6% (0.3) <kernel core> : e1000_intr (e1000_watchdog)
0.6% (0.3) <kernel core> : page_writeback_init (wb_timer_fn)
0.6% (0.3) <kernel core> : init_nonfatal_mce_checker (delayed_work_timer_fn)

```
*****  
*** Yes, I am using network bridging as I often run one or more ***  
*** User Mode Linux virtual hosts on the server. No virtual ***  
*** hosts were running at the time, though. My network config ***  
*** is as follows: ***  
*****
```

```
br0 Link encap:Ethernet HWaddr 00:11:09:3D:96:BF  
inet addr:10.10.224.24 Bcast:10.10.224.255 Mask:255.255.255.0  
inet6 addr: fe80::211:9ff:fe3d:96bf/64 Scope:Link  
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1  
RX packets:3954 errors:0 dropped:0 overruns:0 frame:0  
TX packets:3701 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:0  
RX bytes:376810 (367.9 Kb) TX bytes:787818 (769.3 Kb)
```

```
br0:0 Link encap:Ethernet HWaddr 00:11:09:3D:96:BF  
inet addr:10.10.224.25 Bcast:10.10.224.255 Mask:255.255.255.0  
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
```

```
br0:1 Link encap:Ethernet HWaddr 00:11:09:3D:96:BF  
inet addr:10.10.224.26 Bcast:10.10.224.255 Mask:255.255.255.0  
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
```

```
br0:2 Link encap:Ethernet HWaddr 00:11:09:3D:96:BF  
inet addr:10.10.224.27 Bcast:10.10.224.255 Mask:255.255.255.0  
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
```

```
eth0 Link encap:Ethernet HWaddr 00:11:09:3D:96:BF  
inet6 addr: fe80::211:9ff:fe3d:96bf/64 Scope:Link  
UP BROADCAST RUNNING PROMISC MULTICAST MTU:1500 Metric:1  
RX packets:3952 errors:0 dropped:0 overruns:0 frame:0  
TX packets:3706 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:100  
RX bytes:447794 (437.2 Kb) TX bytes:803086 (784.2 Kb)  
Base address:0xb000 Memory:fa800000-fa820000
```

```
lo Link encap:Local Loopback  
inet addr:127.0.0.1 Mask:255.0.0.0  
inet6 addr: ::1/128 Scope:Host  
UP LOOPBACK RUNNING MTU:16436 Metric:1  
RX packets:1 errors:0 dropped:0 overruns:0 frame:0  
TX packets:1 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:0  
RX bytes:29 (29.0 b) TX bytes:29 (29.0 b)
```

Dynticks Causing High Context Switch Rate in ksoftirqd

```
tap0 Link encap:Ethernet HWaddr 00:FF:62:45:A1:57
inet6 addr: fe80::2ff:62ff:fe45:a157/64 Scope:Link
UP BROADCAST RUNNING PROMISC MULTICAST MTU:1500 Metric:1
RX packets:0 errors:0 dropped:0 overruns:0 frame:0
TX packets:0 errors:0 dropped:75 overruns:0 carrier:0
collisions:0 txqueuelen:500
RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)
```

```
*****
*** oprofile output (60 sec. at idle) – global view ***
*** detail shown below ***
*****
```

```
CPU: P4 / Xeon with 2 hyper-threads, speed 2400 MHz (estimated)
Counted GLOBAL_POWER_EVENTS events (time during which processor is not stopped) with a unit mask
of 0x01 (mandatory) count 100000
GLOBAL_POWER_E...|
samples| %|
```

```
-----
203826 98.3583 vmlinux-2.6.23.9
1633 0.7880 oprofiled
690 0.3330 oprofile
353 0.1703 libc-2.3.5.so
340 0.1641 bash
85 0.0410 jfs
79 0.0381 ld-2.3.5.so
66 0.0318 ISO8859-1.so
39 0.0188 postgres
35 0.0169 e1000
35 0.0169 uhci_hcd
19 0.0092 bridge
5 0.0024 libcrypto.so.0.9.7
5 0.0024 sendmail
4 0.0019 httpd
3 0.0014 gawk-3.1.5
3 0.0014 init
3 0.0014 sshd
2 9.7e-04 grep
2 9.7e-04 sshutout
1 4.8e-04 crond
```

```
*****
*** oprofile output (60 sec. at idle) – detail view ***
*****
```

```
CPU: P4 / Xeon with 2 hyper-threads, speed 2400 MHz (estimated)
Counted GLOBAL_POWER_EVENTS events (time during which processor is not stopped) with a unit mask
of 0x01 (mandatory) count 100000
samples % linelnr info image name app name symbol name
```

Dynticks Causing High Context Switch Rate in ksoftirqd

27164 13.1083 sched.c:2312 vmlinux-2.6.23.9 vmlinux-2.6.23.9 find_busiest_group
9714 4.6876 bitops.h:246 vmlinux-2.6.23.9 vmlinux-2.6.23.9 unsynchronized_tsc
9626 4.6451 process.c:850 vmlinux-2.6.23.9 vmlinux-2.6.23.9 sys_set_thread_area
5988 2.8896 sched_rt.c:40 vmlinux-2.6.23.9 vmlinux-2.6.23.9 dequeue_task_rt
5410 2.6107 sched_rt.c:109 vmlinux-2.6.23.9 vmlinux-2.6.23.9 load_balance_start_rt
5302 2.5585 sched_rt.c:135 vmlinux-2.6.23.9 vmlinux-2.6.23.9 load_balance_next_rt
5296 2.5556 current.h:12 vmlinux-2.6.23.9 vmlinux-2.6.23.9 sys_getuid
5152 2.4862 softirq.c:121 vmlinux-2.6.23.9 vmlinux-2.6.23.9 _local_bh_enable
5093 2.4577 sched_rt.c:77 vmlinux-2.6.23.9 vmlinux-2.6.23.9 pick_next_task_rt
4961 2.3940 sched.c:676 vmlinux-2.6.23.9 vmlinux-2.6.23.9 calc_delta_mine
4492 2.1677 sched.c:1220 vmlinux-2.6.23.9 vmlinux-2.6.23.9 find_idlest_group
4300 2.0750 (no location information) vmlinux-2.6.23.9 vmlinux-2.6.23.9 csum_partial_copy_generic
4046 1.9524 common.c:89 vmlinux-2.6.23.9 vmlinux-2.6.23.9 get_model_name
3840 1.8530 sched_rt.c:178 vmlinux-2.6.23.9 vmlinux-2.6.23.9 load_balance_rt
3813 1.8400 common.c:66 vmlinux-2.6.23.9 vmlinux-2.6.23.9 default_init
3590 1.7324 softirq.c:319 vmlinux-2.6.23.9 vmlinux-2.6.23.9 raise_softirq_irqoff
3504 1.6909 idr.c:119 vmlinux-2.6.23.9 vmlinux-2.6.23.9 sub_alloc
3497 1.6875 tick-sched.c:315 vmlinux-2.6.23.9 vmlinux-2.6.23.9 tick_nohz_restart_sched_tick
3445 1.6624 timekeeping.c:153 vmlinux-2.6.23.9 vmlinux-2.6.23.9 do_settimeofday
3342 1.6127 timekeeping.c:192 vmlinux-2.6.23.9 vmlinux-2.6.23.9 change_clocksource
3332 1.6079 softirq.c:423 vmlinux-2.6.23.9 vmlinux-2.6.23.9 tasklet_hi_action
3217 1.5524 common.c:181 vmlinux-2.6.23.9 vmlinux-2.6.23.9 get_cpu_vendor
3207 1.5476 tick-sched.c:493 vmlinux-2.6.23.9 vmlinux-2.6.23.9 tick_sched_timer
2840 1.3705 sched.c:3109 vmlinux-2.6.23.9 vmlinux-2.6.23.9 run_rebalance_domains
2692 1.2991 sched.c:630 vmlinux-2.6.23.9 vmlinux-2.6.23.9 resched_cpu
2630 1.2691 hrtimer.c:417 vmlinux-2.6.23.9 vmlinux-2.6.23.9 retrigger_next_event
2596 1.2527 sched_fair.c:658 vmlinux-2.6.23.9 vmlinux-2.6.23.9 enqueue_entity
2395 1.1557 sched_fair.c:501 vmlinux-2.6.23.9 vmlinux-2.6.23.9 update_stats_wait_end
2310 1.1147 sched.c:1943 vmlinux-2.6.23.9 vmlinux-2.6.23.9 nr_context_switches
2146 1.0356 sched_fair.c:697 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __check_preempt_curr_fair
2028 0.9786 sched.c:1075 vmlinux-2.6.23.9 vmlinux-2.6.23.9 wait_task_inactive
1987 0.9588 tick-sched.c:382 vmlinux-2.6.23.9 vmlinux-2.6.23.9 tick_nohz_reprogram
1834 0.8850 softirq.c:390 vmlinux-2.6.23.9 vmlinux-2.6.23.9 tasklet_action
1756 0.8474 sched_idletask.c:29 vmlinux-2.6.23.9 vmlinux-2.6.23.9 dequeue_task_idle
1628 0.7856 sched_fair.c:559 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __enqueue_sleeper
1599 0.7716 sched_fair.c:673 vmlinux-2.6.23.9 vmlinux-2.6.23.9 dequeue_entity
1587 0.7658 params.c:54 vmlinux-2.6.23.9 vmlinux-2.6.23.9 parse_one
1543 0.7446 hrtimer.c:457 vmlinux-2.6.23.9 vmlinux-2.6.23.9 clock_was_set
1519 0.7330 sched_fair.c:923 vmlinux-2.6.23.9 vmlinux-2.6.23.9 yield_task_fair
1482 0.7152 sched.c:648 vmlinux-2.6.23.9 vmlinux-2.6.23.9 div64_likely32
1482 0.7152 timer.c:885 vmlinux-2.6.23.9 vmlinux-2.6.23.9 run_timer_softirq
1457 0.7031 sched.c:2983 vmlinux-2.6.23.9 vmlinux-2.6.23.9 select_nohz_load_balancer
1404 0.6775 delay.c:31 vmlinux-2.6.23.9 vmlinux-2.6.23.9 delay_loop
1319 0.6365 sched_debug.c:88 vmlinux-2.6.23.9 vmlinux-2.6.23.9 print_cfs_rq_runtime_sum
1301 0.6278 sched_fair.c:598 vmlinux-2.6.23.9 vmlinux-2.6.23.9 enqueue_sleeper
1295 0.6249 sched_debug.c:60 vmlinux-2.6.23.9 vmlinux-2.6.23.9 print_rq
1208 0.5829 sched.c:2637 vmlinux-2.6.23.9 vmlinux-2.6.23.9 load_balance
1189 0.5738 sched_fair.c:1164 vmlinux-2.6.23.9 vmlinux-2.6.23.9 task_new_fair
1113 0.5371 resource.c:281 vmlinux-2.6.23.9 vmlinux-2.6.23.9 find_resource
1095 0.5284 sched_fair.c:755 vmlinux-2.6.23.9 vmlinux-2.6.23.9 put_prev_entity
1086 0.5241 sched.c:2598 vmlinux-2.6.23.9 vmlinux-2.6.23.9 find_busiest_queue

Dynticks Causing High Context Switch Rate in ksoftirqd

983 0.4744 sched.c:4181 vmlinux-2.6.23.9 vmlinux-2.6.23.9 sched_setscheduler
982 0.4739 sched_fair.c:1093 vmlinux-2.6.23.9 vmlinux-2.6.23.9 load_balance_fair
947 0.4570 process.c:301 vmlinux-2.6.23.9 vmlinux-2.6.23.9 show_regs
928 0.4478 timer.c:1110 vmlinux-2.6.23.9 vmlinux-2.6.23.9 do_sysinfo
923 0.4454 sched.c:1983 vmlinux-2.6.23.9 vmlinux-2.6.23.9 update_cpu_load
916 0.4420 list.h:31 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __sched_fork
900 0.4343 sched_fair.c:771 vmlinux-2.6.23.9 vmlinux-2.6.23.9 entity_tick
860 0.4150 sched_rt.c:29 vmlinux-2.6.23.9 vmlinux-2.6.23.9 enqueue_task_rt
825 0.3981 sched.c:609 vmlinux-2.6.23.9 vmlinux-2.6.23.9 resched_task
806 0.3889 softirq.c:588 vmlinux-2.6.23.9 vmlinux-2.6.23.9 cpu_callback
803 0.3875 sched_fair.c:980 vmlinux-2.6.23.9 vmlinux-2.6.23.9 check_preempt_curr_fair
716 0.3455 softirq.c:651 vmlinux-2.6.23.9 vmlinux-2.6.23.9 on_each_cpu
690 0.3330 (no location information) oprofile oprofile (no symbols)
652 0.3146 sched_fair.c:886 vmlinux-2.6.23.9 vmlinux-2.6.23.9 enqueue_task_fair
583 0.2813 sched_fair.c:904 vmlinux-2.6.23.9 vmlinux-2.6.23.9 dequeue_task_fair
562 0.2712 sched.c:1159 vmlinux-2.6.23.9 vmlinux-2.6.23.9 kick_process
542 0.2615 params.c:78 vmlinux-2.6.23.9 vmlinux-2.6.23.9 next_arg
534 0.2577 kthread.c:222 vmlinux-2.6.23.9 vmlinux-2.6.23.9 kthreadd
530 0.2558 thread_info.h:93 vmlinux-2.6.23.9 vmlinux-2.6.23.9 irq_exit
488 0.2355 rwsem.c:152 vmlinux-2.6.23.9 vmlinux-2.6.23.9 rwsem_down_failed_common
442 0.2133 sched_fair.c:389 vmlinux-2.6.23.9 vmlinux-2.6.23.9 update_curr
420 0.2027 hrtimer.c:465 vmlinux-2.6.23.9 vmlinux-2.6.23.9 hres_timers_resume
418 0.2017 tick-sched.c:391 vmlinux-2.6.23.9 vmlinux-2.6.23.9 tick_nohz_handler
410 0.1978 rwsem.c:220 vmlinux-2.6.23.9 vmlinux-2.6.23.9 rwsem_wake
398 0.1921 sched.c:1926 vmlinux-2.6.23.9 vmlinux-2.6.23.9 nr_uninterruptible
397 0.1916 sched_fair.c:1004 vmlinux-2.6.23.9 vmlinux-2.6.23.9 pick_next_task_fair
345 0.1665 rbtree.c:354 vmlinux-2.6.23.9 vmlinux-2.6.23.9 rb_prev
340 0.1641 (no location information) bash bash (no symbols)
333 0.1607 opd_trans.c:52 oprofiled oprofiled pop_buffer_value
332 0.1602 sched.c:1426 vmlinux-2.6.23.9 vmlinux-2.6.23.9 try_to_wake_up
278 0.1342 sched_fair.c:746 vmlinux-2.6.23.9 vmlinux-2.6.23.9 pick_next_entity
270 0.1303 process.c:836 vmlinux-2.6.23.9 vmlinux-2.6.23.9 get_free_idx
259 0.1250 sched_idletask.c:37 vmlinux-2.6.23.9 vmlinux-2.6.23.9 put_prev_task_idle
254 0.1226 sched.c:1045 vmlinux-2.6.23.9 vmlinux-2.6.23.9 migrate_task
241 0.1163 fork.c:484 vmlinux-2.6.23.9 vmlinux-2.6.23.9 dup_mm
238 0.1148 rbtree.c:225 vmlinux-2.6.23.9 vmlinux-2.6.23.9 rb_erase
227 0.1095 div64.c:63 vmlinux-2.6.23.9 vmlinux-2.6.23.9 div64_64
222 0.1071 db_insert.c:53 oprofiled oprofiled odb_update_node
198 0.0955 sched.c:1916 vmlinux-2.6.23.9 vmlinux-2.6.23.9 nr_running
192 0.0927 string.c:223 vmlinux-2.6.23.9 vmlinux-2.6.23.9 memscan
183 0.0883 current.h:12 vmlinux-2.6.23.9 vmlinux-2.6.23.9 sys_getppid
181 0.0873 hrtimer.c:1331 vmlinux-2.6.23.9 vmlinux-2.6.23.9 sys_nanosleep
179 0.0864 sched_fair.c:333 vmlinux-2.6.23.9 vmlinux-2.6.23.9 add_wait_runtime
177 0.0854 opd_kernel.c:209 oprofiled oprofiled find_kernel_image
174 0.0840 sched_fair.c:1066 vmlinux-2.6.23.9 vmlinux-2.6.23.9 load_balance_next_fair
158 0.0762 timer.c:1212 vmlinux-2.6.23.9 vmlinux-2.6.23.9 init_timers_cpu
155 0.0748 timer.c:920 vmlinux-2.6.23.9 vmlinux-2.6.23.9 do_timer
142 0.0685 sched_debug.c:33 vmlinux-2.6.23.9 vmlinux-2.6.23.9 print_task
141 0.0680 tick-sched.c:558 vmlinux-2.6.23.9 vmlinux-2.6.23.9 tick_setup_sched_timer
129 0.0623 softirq.c:102 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __local_bh_enable
127 0.0613 hrtimer.c:1412 vmlinux-2.6.23.9 vmlinux-2.6.23.9 hrtimer_cpu_notify

Dynticks Causing High Context Switch Rate in ksoftirqd

124 0.0598 opd_trans.c:86 oprofiled oprofiled opd_put_sample
117 0.0565 opd_sfile.c:215 oprofiled oprofiled sfile_find
109 0.0526 opd_trans.c:281 oprofiled oprofiled opd_process_samples
107 0.0516 sched.c:518 vmlinux-2.6.23.9 vmlinux-2.6.23.9 task_rq_lock
99 0.0478 current.h:12 vmlinux-2.6.23.9 vmlinux-2.6.23.9 sys_geteuid
98 0.0473 opd_sfile.c:419 oprofiled oprofiled sfile_log_sample
98 0.0473 memory.c:1958 vmlinux-2.6.23.9 vmlinux-2.6.23.9 unmap_mapping_range
97 0.0468 sched_rt.c:71 vmlinux-2.6.23.9 vmlinux-2.6.23.9 check_preempt_curr_rt
85 0.0410 (no location information) jfs jfs (no symbols)
84 0.0405 opd_sfile.c:290 oprofiled oprofiled get_file
82 0.0396 traps.c:236 vmlinux-2.6.23.9 vmlinux-2.6.23.9 show_trace_log_lvl
80 0.0386 thread_info.h:93 vmlinux-2.6.23.9 vmlinux-2.6.23.9 irq_enter
79 0.0381 current.h:12 vmlinux-2.6.23.9 vmlinux-2.6.23.9 sys_getgid
73 0.0352 iomap.c:217 vmlinux-2.6.23.9 vmlinux-2.6.23.9 iowrite16_rep
72 0.0347 db_manage.c:284 oprofiled oprofiled odb_open_count
64 0.0309 softirq.c:347 vmlinux-2.6.23.9 vmlinux-2.6.23.9 open_softirq
63 0.0304 (no location information) ISO8859-1.so ISO8859-1.so gconv
62 0.0299 opd_sfile.c:42 oprofiled oprofiled sfile_hash
61 0.0294 sched_idletask.c:50 vmlinux-2.6.23.9 vmlinux-2.6.23.9 task_tick_idle
60 0.0290 (no location information) libc-2.3.5.so libc-2.3.5.so mbrtowc
60 0.0290 softirq.c:338 vmlinux-2.6.23.9 vmlinux-2.6.23.9 raise_softirq
52 0.0251 (no location information) vmlinux-2.6.23.9 vmlinux-2.6.23.9 irq_entries_start
49 0.0236 tick-sched.c:152 vmlinux-2.6.23.9 vmlinux-2.6.23.9 tick_nohz_stop_sched_tick
48 0.0232 opd_trans.c:143 oprofiled oprofiled code_ctx_switch
47 0.0227 opd_sfile.c:84 oprofiled oprofiled do_match
44 0.0212 iomap.c:258 vmlinux-2.6.23.9 vmlinux-2.6.23.9 pci_iomap
41 0.0198 (no location information) libc-2.3.5.so libc-2.3.5.so strcmp
39 0.0188 hrtimer.c:1193 vmlinux-2.6.23.9 vmlinux-2.6.23.9 hrtimer_run_queues
38 0.0183 opd_sfile.c:123 oprofiled oprofiled trans_match
37 0.0179 slub.c:1964 vmlinux-2.6.23.9 vmlinux-2.6.23.9 calculate_sizes
35 0.0169 (no location information) e1000 e1000 (no symbols)
35 0.0169 (no location information) uhci_hcd uhci_hcd (no symbols)
32 0.0154 page_alloc.c:781 vmlinux-2.6.23.9 vmlinux-2.6.23.9 free_hot_cold_page
31 0.0150 opd_trans.c:45 oprofiled oprofiled clear_trans_current
31 0.0150 sched.c:4293 vmlinux-2.6.23.9 vmlinux-2.6.23.9 do_sched_setscheduler
29 0.0140 opd_trans.c:75 oprofiled oprofiled enough_remaining
26 0.0125 timer.c:681 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __next_timer_interrupt
25 0.0121 (no location information) ld-2.3.5.so ld-2.3.5.so do_lookup_x
24 0.0116 (no location information) postgres postgres SyncOneBuffer
24 0.0116 memory.c:813 vmlinux-2.6.23.9 vmlinux-2.6.23.9 unmap_vmas
24 0.0116 memory.c:623 vmlinux-2.6.23.9 vmlinux-2.6.23.9 zap_pte_range
22 0.0106 filemap.c:867 vmlinux-2.6.23.9 vmlinux-2.6.23.9 do_generic_mapping_read
22 0.0106 timer_stats.c:346 vmlinux-2.6.23.9 vmlinux-2.6.23.9 sync_access
22 0.0106 clocksource.c:424 vmlinux-2.6.23.9 vmlinux-2.6.23.9 sysfs_show_available_clocksources
20 0.0097 rmap.c:769 vmlinux-2.6.23.9 vmlinux-2.6.23.9 try_to_unmap_cluster
18 0.0087 page_alloc.c:1238 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __alloc_pages
18 0.0087 hrtimer.c:556 vmlinux-2.6.23.9 vmlinux-2.6.23.9 hrtimer_switch_to_hres
18 0.0087 sched.c:3947 vmlinux-2.6.23.9 vmlinux-2.6.23.9 rt_mutex_setprio
17 0.0082 (no location information) libc-2.3.5.so libc-2.3.5.so strlen
17 0.0082 opd_sfile.c:607 oprofiled oprofiled sfile_put
17 0.0082 sched.c:327 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __update_rq_clock

Dynticks Causing High Context Switch Rate in ksoftirqd

```
17 0.0082 memory.c:2638 vmlinux-2.6.23.9 vmlinux-2.6.23.9 handle_mm_fault
17 0.0082 posix-cpu-timers.c:49 vmlinux-2.6.23.9 vmlinux-2.6.23.9 sample_to_timespec
16 0.0077 (no location information) libc-2.3.5.so libc-2.3.5.so __i686.get_pc_thunk.bx
16 0.0077 (no location information) libc-2.3.5.so libc-2.3.5.so memcpy
16 0.0077 opd_sfile.c:600 oprofiled oprofiled sfile_get
16 0.0077 hrtimer.c:1008 vmlinux-2.6.23.9 vmlinux-2.6.23.9 hrtimer_interrupt
16 0.0077 hrtimer.c:1092 vmlinux-2.6.23.9 vmlinux-2.6.23.9 run_hrtimer_softirq
16 0.0077 scsi_lib.c:1710 vmlinux-2.6.23.9 vmlinux-2.6.23.9 scsi_mode_select
15 0.0072 handle.c:30 vmlinux-2.6.23.9 vmlinux-2.6.23.9 handle_bad_irq
15 0.0072 idr.c:185 vmlinux-2.6.23.9 vmlinux-2.6.23.9 idr_get_empty_slot
15 0.0072 smp.c:554 vmlinux-2.6.23.9 vmlinux-2.6.23.9 native_smp_call_function_mask
15 0.0072 apic.c:853 vmlinux-2.6.23.9 vmlinux-2.6.23.9 setup_local_APIC
14 0.0068 namei.c:812 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __link_path_walk
14 0.0068 filemap.c:711 vmlinux-2.6.23.9 vmlinux-2.6.23.9 find_get_pages
14 0.0068 filemap.c:667 vmlinux-2.6.23.9 vmlinux-2.6.23.9 find_or_create_page
14 0.0068 filemap.c:801 vmlinux-2.6.23.9 vmlinux-2.6.23.9 grab_cache_page_nowait
14 0.0068 mmap.c:1734 vmlinux-2.6.23.9 vmlinux-2.6.23.9 unmap_region
14 0.0068 latency.c:265 vmlinux-2.6.23.9 vmlinux-2.6.23.9 unregister_latency_notifier
13 0.0063 (no location information) libc-2.3.5.so libc-2.3.5.so _dl_mcount_wrapper_check
13 0.0063 nsproxy.c:63 vmlinux-2.6.23.9 vmlinux-2.6.23.9 create_new_namespaces
13 0.0063 hrtimer.c:636 vmlinux-2.6.23.9 vmlinux-2.6.23.9 hrtimer_forward
13 0.0063 dcache.c:1474 vmlinux-2.6.23.9 vmlinux-2.6.23.9 switch_names
12 0.0058 (no location information) ld-2.3.5.so ld-2.3.5.so strcmp
12 0.0058 memory.c:2823 vmlinux-2.6.23.9 vmlinux-2.6.23.9 access_process_vm
12 0.0058 sched.c:4045 vmlinux-2.6.23.9 vmlinux-2.6.23.9 can_nice
12 0.0058 sched.c:3708 vmlinux-2.6.23.9 vmlinux-2.6.23.9 complete
12 0.0058 dcache.c:1530 vmlinux-2.6.23.9 vmlinux-2.6.23.9 d_move_locked
12 0.0058 tick-common.c:103 vmlinux-2.6.23.9 vmlinux-2.6.23.9 tick_setup_periodic
11 0.0053 (no location information) libc-2.3.5.so libc-2.3.5.so insert_module
11 0.0053 (no location information) libc-2.3.5.so libc-2.3.5.so memset
11 0.0053 timer.c:753 vmlinux-2.6.23.9 vmlinux-2.6.23.9 cmp_next_hrtimer_event
11 0.0053 fault.c:303 vmlinux-2.6.23.9 vmlinux-2.6.23.9 do_page_fault
10 0.0048 memory.c:2500 vmlinux-2.6.23.9 vmlinux-2.6.23.9 do_no_pfn
10 0.0048 oom_kill.c:209 vmlinux-2.6.23.9 vmlinux-2.6.23.9 select_bad_process
10 0.0048 timer_stats.c:168 vmlinux-2.6.23.9 vmlinux-2.6.23.9 tstat_lookup
9 0.0043 namei.c:1106 vmlinux-2.6.23.9 vmlinux-2.6.23.9 do_path_lookup
9 0.0043 hrtimer.c:921 vmlinux-2.6.23.9 vmlinux-2.6.23.9 hrtimer_get_next_event
9 0.0043 tick-common.c:78 vmlinux-2.6.23.9 vmlinux-2.6.23.9 tick_handle_periodic
8 0.0039 (no location information) ld-2.3.5.so ld-2.3.5.so _dl_elf_hash
8 0.0039 (no location information) libc-2.3.5.so libc-2.3.5.so _dl_addr
8 0.0039 (no location information) libc-2.3.5.so libc-2.3.5.so _int_malloc
8 0.0039 (no location information) libc-2.3.5.so libc-2.3.5.so strcpy
8 0.0039 swap.c:441 vmlinux-2.6.23.9 vmlinux-2.6.23.9 pagevec_lookup
8 0.0039 scsi_lib.c:656 vmlinux-2.6.23.9 vmlinux-2.6.23.9 scsi_end_request
8 0.0039 sched.c:3989 vmlinux-2.6.23.9 vmlinux-2.6.23.9 set_user_nice
8 0.0039 filemap.c:1644 vmlinux-2.6.23.9 vmlinux-2.6.23.9 should_remove_suid
8 0.0039 vmstat.c:539 vmlinux-2.6.23.9 vmlinux-2.6.23.9 zoneinfo_show
7 0.0034 (no location information) libc-2.3.5.so libc-2.3.5.so memchr
7 0.0034 (no location information) libc-2.3.5.so libc-2.3.5.so vfprintf
7 0.0034 exit.c:77 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __exit_signal
7 0.0034 fork.c:966 vmlinux-2.6.23.9 vmlinux-2.6.23.9 copy_process
```

Dynticks Causing High Context Switch Rate in ksoftirqd

```
7 0.0034 select.c:308 vmlinux-2.6.23.9 vmlinux-2.6.23.9 core_sys_select
7 0.0034 softirq.c:491 vmlinux-2.6.23.9 vmlinux-2.6.23.9 ksoftirqd
7 0.0034 prio_tree.c:265 vmlinux-2.6.23.9 vmlinux-2.6.23.9 prio_tree_remove
7 0.0034 scsi_lib.c:818 vmlinux-2.6.23.9 vmlinux-2.6.23.9 scsi_io_completion
7 0.0034 workqueue.c:441 vmlinux-2.6.23.9 vmlinux-2.6.23.9 wait_on_work
6 0.0029 (no location information) ld-2.3.5.so ld-2.3.5.so _dl_relocate_object
6 0.0029 (no location information) libc-2.3.5.so libc-2.3.5.so __newselect_nocancel
6 0.0029 (no location information) libc-2.3.5.so libc-2.3.5.so add_alias
6 0.0029 (no location information) libc-2.3.5.so libc-2.3.5.so add_module
6 0.0029 (no location information) libc-2.3.5.so libc-2.3.5.so sigprocmask
6 0.0029 (no location information) postgres postgres BgBufferSync
6 0.0029 mmap.c:461 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __insert_vm_struct
6 0.0029 kfifo.c:121 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __kfifo_put
6 0.0029 filemap.c:1498 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __read_cache_page
6 0.0029 posix-cpu-timers.c:1418 vmlinux-2.6.23.9 vmlinux-2.6.23.9 do_cpu_nanosleep
6 0.0029 memory.c:1638 vmlinux-2.6.23.9 vmlinux-2.6.23.9 do_wp_page
6 0.0029 hrtimer.c:804 vmlinux-2.6.23.9 vmlinux-2.6.23.9 hrtimer_start
6 0.0029 ll_rw_blk.c:1461 vmlinux-2.6.23.9 vmlinux-2.6.23.9 ll_front_merge_fn
6 0.0029 namei.c:1362 vmlinux-2.6.23.9 vmlinux-2.6.23.9 lookup_one_len
6 0.0029 filemap.c:837 vmlinux-2.6.23.9 vmlinux-2.6.23.9 shrink_readahead_size_eio
6 0.0029 softirq.c:469 vmlinux-2.6.23.9 vmlinux-2.6.23.9 tasklet_kill
6 0.0029 memory.c:752 vmlinux-2.6.23.9 vmlinux-2.6.23.9 unmap_page_range
6 0.0029 workqueue.c:281 vmlinux-2.6.23.9 vmlinux-2.6.23.9 worker_thread
5 0.0024 br_stp.c:318 bridge.ko bridge br_config_bpdu_generation
5 0.0024 (no location information) libc-2.3.5.so libc-2.3.5.so mempcpy
5 0.0024 (no location information) libcrypto.so.0.9.7 libcrypto.so.0.9.7 (no symbols)
5 0.0024 (no location information) sendmail sendmail (no symbols)
5 0.0024 usercopy.c:718 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __copy_to_user_ll
5 0.0024 fork.c:639 vmlinux-2.6.23.9 vmlinux-2.6.23.9 alloc_files
5 0.0024 timer.c:594 vmlinux-2.6.23.9 vmlinux-2.6.23.9 cascade
5 0.0024 memory.c:586 vmlinux-2.6.23.9 vmlinux-2.6.23.9 copy_page_range
5 0.0024 sched.c:389 vmlinux-2.6.23.9 vmlinux-2.6.23.9 cpu_clock
5 0.0024 ll_rw_blk.c:3634 vmlinux-2.6.23.9 vmlinux-2.6.23.9 end_that_request_last
5 0.0024 workqueue.c:374 vmlinux-2.6.23.9 vmlinux-2.6.23.9 flush_workqueue
5 0.0024 hrtimer.c:858 vmlinux-2.6.23.9 vmlinux-2.6.23.9 hrtimer_try_to_cancel
5 0.0024 buffer.c:2426 vmlinux-2.6.23.9 vmlinux-2.6.23.9 nobh_writepage
5 0.0024 swap.c:257 vmlinux-2.6.23.9 vmlinux-2.6.23.9 release_pages
5 0.0024 scsi.c:469 vmlinux-2.6.23.9 vmlinux-2.6.23.9 scsi_dispatch_cmd
5 0.0024 ntp.c:92 vmlinux-2.6.23.9 vmlinux-2.6.23.9 second_overflow
5 0.0024 workqueue.c:425 vmlinux-2.6.23.9 vmlinux-2.6.23.9 wait_on_cpu_work
4 0.0019 br_fdb.c:121 bridge.ko bridge br_fdb_cleanup
4 0.0019 (no location information) httpd httpd (no symbols)
4 0.0019 (no location information) ld-2.3.5.so ld-2.3.5.so dl_main
4 0.0019 (no location information) libc-2.3.5.so libc-2.3.5.so __gconv_alias_compare
4 0.0019 (no location information) libc-2.3.5.so libc-2.3.5.so anonymous symbol from section .plt
4 0.0019 (no location information) libc-2.3.5.so libc-2.3.5.so strchr
4 0.0019 (no location information) libc-2.3.5.so libc-2.3.5.so tsearch
4 0.0019 (no location information) postgres postgres BackgroundWriterMain
4 0.0019 memory.c:2319 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __do_fault
4 0.0019 swap.c:352 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __pagevec_lru_add
4 0.0019 swap.c:379 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __pagevec_lru_add_active
```

Dynticks Causing High Context Switch Rate in ksoftirqd

```
4 0.0019 sched.c:3637 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __wake_up_common
4 0.0019 sched.c:3672 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __wake_up_locked
4 0.0019 slub_def.h:174 vmlinux-2.6.23.9 vmlinux-2.6.23.9 alloc_super
4 0.0019 clocksource.c:156 vmlinux-2.6.23.9 vmlinux-2.6.23.9 clocksource_check_watchdog
4 0.0019 slub.c:2653 vmlinux-2.6.23.9 vmlinux-2.6.23.9 find_mergeable
4 0.0019 open.c:1174 vmlinux-2.6.23.9 vmlinux-2.6.23.9 generic_file_open
4 0.0019 hrtimer.c:900 vmlinux-2.6.23.9 vmlinux-2.6.23.9 hrtimer_get_remaining
4 0.0019 hrtimer.c:961 vmlinux-2.6.23.9 vmlinux-2.6.23.9 hrtimer_init
4 0.0019 kfifo.c:69 vmlinux-2.6.23.9 vmlinux-2.6.23.9 kfifo_alloc
4 0.0019 madvise.c:109 vmlinux-2.6.23.9 vmlinux-2.6.23.9 madvise_willneed
4 0.0019 mincore.c:28 vmlinux-2.6.23.9 vmlinux-2.6.23.9 mincore_page
4 0.0019 namei.c:1680 vmlinux-2.6.23.9 vmlinux-2.6.23.9 open_namei
4 0.0019 filemap.c:1587 vmlinux-2.6.23.9 vmlinux-2.6.23.9 read_cache_page
4 0.0019 workqueue.c:528 vmlinux-2.6.23.9 vmlinux-2.6.23.9 schedule_work
4 0.0019 sched.c:3341 vmlinux-2.6.23.9 vmlinux-2.6.23.9 scheduler_tick
4 0.0019 traps.c:243 vmlinux-2.6.23.9 vmlinux-2.6.23.9 show_trace
4 0.0019 open.c:140 vmlinux-2.6.23.9 vmlinux-2.6.23.9 sys_statfs64
4 0.0019 open.c:1159 vmlinux-2.6.23.9 vmlinux-2.6.23.9 sys_vhangup
4 0.0019 sched.c:3242 vmlinux-2.6.23.9 vmlinux-2.6.23.9 task_sched_runtime
4 0.0019 tick-sched.c:443 vmlinux-2.6.23.9 vmlinux-2.6.23.9 tick_nohz_switch_to_nohz
4 0.0019 tick-common.c:60 vmlinux-2.6.23.9 vmlinux-2.6.23.9 tick_periodic
4 0.0019 truncate.c:159 vmlinux-2.6.23.9 vmlinux-2.6.23.9 truncate_inode_pages_range
4 0.0019 sched.c:708 vmlinux-2.6.23.9 vmlinux-2.6.23.9 update_load_sub
3 0.0014 (no location information) ISO8859-1.so ISO8859-1.so __i686.get_pc_thunk.bx
3 0.0014 br_stp_timer.c:37 bridge.ko bridge br_hello_timer_expired
3 0.0014 br_stp_timer.c:134 bridge.ko bridge br_hold_timer_expired
3 0.0014 (no location information) gawk-3.1.5 gawk-3.1.5 (no symbols)
3 0.0014 (no location information) init init (no symbols)
3 0.0014 (no location information) ld-2.3.5.so ld-2.3.5.so _dl_fini
3 0.0014 (no location information) libc-2.3.5.so libc-2.3.5.so __ctype_b_loc
3 0.0014 (no location information) libc-2.3.5.so libc-2.3.5.so _nl_intern_locale_data
3 0.0014 (no location information) libc-2.3.5.so libc-2.3.5.so getenv
3 0.0014 (no location information) libc-2.3.5.so libc-2.3.5.so maybe_split_for_insert
3 0.0014 (no location information) libc-2.3.5.so libc-2.3.5.so mkdir
3 0.0014 opd_trans.c:170 oprofiled oprofiled code_cpu_switch
3 0.0014 (no location information) sshd sshd (no symbols)
3 0.0014 radix-tree.c:719 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __lookup_tag
3 0.0014 list.h:299 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __put_super_and_need_restart
3 0.0014 scsi.c:923 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __scsi_device_lookup_by_target
3 0.0014 fs-writeback.c:154 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __sync_single_inode
3 0.0014 libata-core.c:5881 vmlinux-2.6.23.9 vmlinux-2.6.23.9 ata_flush_cache
3 0.0014 oom_kill.c:52 vmlinux-2.6.23.9 vmlinux-2.6.23.9 badness
3 0.0014 ll_rw_blk.c:3613 vmlinux-2.6.23.9 vmlinux-2.6.23.9 blk_complete_request
3 0.0014 namespace.c:233 vmlinux-2.6.23.9 vmlinux-2.6.23.9 clone_mnt
3 0.0014 signal.c:2055 vmlinux-2.6.23.9 vmlinux-2.6.23.9 copy_siginfo_to_user
3 0.0014 dcache.c:1123 vmlinux-2.6.23.9 vmlinux-2.6.23.9 d_alloc_anon
3 0.0014 timer.c:509 vmlinux-2.6.23.9 vmlinux-2.6.23.9 del_timer
3 0.0014 dmaengine.c:164 vmlinux-2.6.23.9 vmlinux-2.6.23.9 dma_client_chan_alloc
3 0.0014 namei.c:771 vmlinux-2.6.23.9 vmlinux-2.6.23.9 do_lookup
3 0.0014 ll_rw_blk.c:3671 vmlinux-2.6.23.9 vmlinux-2.6.23.9 end_request
3 0.0014 filemap.c:1833 vmlinux-2.6.23.9 vmlinux-2.6.23.9 generic_file_buffered_write
```

Dynticks Causing High Context Switch Rate in ksoftirqd

```
3 0.0014 fs-writeback.c:631 vmlinux-2.6.23.9 vmlinux-2.6.23.9 generic_osync_inode
3 0.0014 swapfile.c:175 vmlinux-2.6.23.9 vmlinux-2.6.23.9 get_swap_page
3 0.0014 super.c:204 vmlinux-2.6.23.9 vmlinux-2.6.23.9 grab_super
3 0.0014 hrtimer.c:991 vmlinux-2.6.23.9 vmlinux-2.6.23.9 hrtimer_get_res
3 0.0014 hrtimer.c:1236 vmlinux-2.6.23.9 vmlinux-2.6.23.9 hrtimer_init_sleeper
3 0.0014 workqueue.c:322 vmlinux-2.6.23.9 vmlinux-2.6.23.9 insert_wq_barrier
3 0.0014 binfmt_elf.c:540 vmlinux-2.6.23.9 vmlinux-2.6.23.9 load_elf_binary
3 0.0014 timer_stats.c:155 vmlinux-2.6.23.9 vmlinux-2.6.23.9 match_entries
3 0.0014 sched.c:2265 vmlinux-2.6.23.9 vmlinux-2.6.23.9 move_tasks
3 0.0014 ntp.c:51 vmlinux-2.6.23.9 vmlinux-2.6.23.9 ntp_update_frequency
3 0.0014 rmap.c:335 vmlinux-2.6.23.9 vmlinux-2.6.23.9 page_referenced_file
3 0.0014 traps.c:200 vmlinux-2.6.23.9 vmlinux-2.6.23.9 print_trace_warning_symbol
3 0.0014 prio_tree.c:189 vmlinux-2.6.23.9 vmlinux-2.6.23.9 prio_tree_insert
3 0.0014 rbtree.c:325 vmlinux-2.6.23.9 vmlinux-2.6.23.9 rb_next
3 0.0014 workqueue.c:576 vmlinux-2.6.23.9 vmlinux-2.6.23.9 schedule_on_each_cpu
3 0.0014 sd.c:521 vmlinux-2.6.23.9 vmlinux-2.6.23.9 sd_open
3 0.0014 irq.c:249 vmlinux-2.6.23.9 vmlinux-2.6.23.9 show_interrupts
3 0.0014 argv_split.c:10 vmlinux-2.6.23.9 vmlinux-2.6.23.9 skip_sep
3 0.0014 smpboot.c:212 vmlinux-2.6.23.9 vmlinux-2.6.23.9 smp_callin
3 0.0014 open.c:159 vmlinux-2.6.23.9 vmlinux-2.6.23.9 sys_fstatfs
3 0.0014 ioport.c:59 vmlinux-2.6.23.9 vmlinux-2.6.23.9 sys_ioperm
3 0.0014 sys.c:667 vmlinux-2.6.23.9 vmlinux-2.6.23.9 sys_setpriority
3 0.0014 tick-sched.c:128 vmlinux-2.6.23.9 vmlinux-2.6.23.9 tick_nohz_update_jiffies
3 0.0014 mmap.c:490 vmlinux-2.6.23.9 vmlinux-2.6.23.9 vma_adjust
2 9.7e-04 (no location information) grep grep (no symbols)
2 9.7e-04 (no location information) ld-2.3.5.so ld-2.3.5.so _dl_map_object_deps
2 9.7e-04 (no location information) ld-2.3.5.so ld-2.3.5.so _dl_map_object_from_fd
2 9.7e-04 (no location information) ld-2.3.5.so ld-2.3.5.so uname
2 9.7e-04 (no location information) libc-2.3.5.so libc-2.3.5.so _IO_list_unlock
2 9.7e-04 (no location information) libc-2.3.5.so libc-2.3.5.so __fxstat
2 9.7e-04 (no location information) libc-2.3.5.so libc-2.3.5.so __mpn_lshift
2 9.7e-04 (no location information) libc-2.3.5.so libc-2.3.5.so _int_free
2 9.7e-04 (no location information) libc-2.3.5.so libc-2.3.5.so _nl_expand_alias
2 9.7e-04 (no location information) libc-2.3.5.so libc-2.3.5.so _nl_find_locale
2 9.7e-04 (no location information) libc-2.3.5.so libc-2.3.5.so brk
2 9.7e-04 (no location information) libc-2.3.5.so libc-2.3.5.so detect_conflict
2 9.7e-04 (no location information) libc-2.3.5.so libc-2.3.5.so malloc
2 9.7e-04 (no location information) libc-2.3.5.so libc-2.3.5.so read
2 9.7e-04 (no location information) libc-2.3.5.so libc-2.3.5.so read_alias_file
2 9.7e-04 (no location information) libc-2.3.5.so libc-2.3.5.so read_conf_file
2 9.7e-04 (no location information) libc-2.3.5.so libc-2.3.5.so stpcpy
2 9.7e-04 (no location information) libc-2.3.5.so libc-2.3.5.so time
2 9.7e-04 db_manage.c:64 oprofiled oprofiled odb_grow_hashtable
2 9.7e-04 (no location information) postgres postgres PostmasterIsAlive
2 9.7e-04 (no location information) sshutout sshutout (no symbols)
2 9.7e-04 usercopy.c:809 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __copy_from_user_ll_nocache
2 9.7e-04 dcache.c:1630 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __d_unalias
2 9.7e-04 readahead.c:142 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __do_page_cache_readahead
2 9.7e-04 namei.c:678 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __follow_mount
2 9.7e-04 oom_kill.c:278 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __oom_kill_task
2 9.7e-04 rcupdate.c:476 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __rcu_pending
```

Dynticks Causing High Context Switch Rate in ksoftirqd

2 9.7e-04 filemap.c:1667 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __remove_suid
2 9.7e-04 fs-writeback.c:523 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __sync_inodes
2 9.7e-04 sched.c:3659 vmlinux-2.6.23.9 vmlinux-2.6.23.9 __wake_up
2 9.7e-04 dcache.c:1097 vmlinux-2.6.23.9 vmlinux-2.6.23.9 _d_rehash
2 9.7e-04 msr-on-cpu.c:68 vmlinux-2.6.23.9 vmlinux-2.6.23.9 _wrmsr_on_cpu
2 9.7e-04 sched.c:3318 vmlinux-2.6.23.9 vmlinux-2.6.23.9 account_steal_time
2 9.7e-04 sched.c:3267 vmlinux-2.6.23.9 vmlinux-2.6.23.9 account_user_time
2 9.7e-04 timer_stats.c:148 vmlinux-2.6.23.9 vmlinux-2.6.23.9 alloc_entry
2 9.7e-04 argv_split.c:70 vmlinux-2.6.23.9 vmlinux-2.6.23.9 argv_split
2 9.7e-04 posix-cpu-timers.c:570 vmlinux-2.6.23.9 vmlinux-2.6.23.9 arm_timer
2 9.7e-04 libata-core.c:5714 vmlinux-2.6.23.9 vmlinux-2.6.23.9 ata_interrupt
2 9.7e-04 libata-core.c:5419 vmlinux-2.6.23.9 vmlinux-2.6.23.9 ata_qc_issue
2 9.7e-04 libata-scsi.c:3033 vmlinux-2.6.23.9 vmlinux-2.6.23.9 ata_scsi_offline_dev
2 9.7e-04 posix-cpu-timers.c:11 vmlinux-2.6.23.9 vmlinux-2.6.23.9 check_clock
2 9.7e-04 timekeeping.c:425 vmlinux-2.6.23.9 vmlinux-2.6.23.9 clocksource_adjust
2 9.7e-04 sched.c:3720 vmlinux-2.6.23.9 vmlinux-2.6.23.9 complete_all
2 9.7e-04 stat.c:189 vmlinux-2.6.23.9 vmlinux-2.6.23.9 cp_new_stat
2 9.7e-04 api.c:169 vmlinux-2.6.23.9 vmlinux-2.6.23.9 crypto_alg_lookup
2 9.7e-04 truncate.c:37 vmlinux-2.6.23.9 vmlinux-2.6.23.9 do_invalidatepage
2 9.7e-04 mincore.c:57 vmlinux-2.6.23.9 vmlinux-2.6.23.9 do_mincore
2 9.7e-04 select.c:190 vmlinux-2.6.23.9 vmlinux-2.6.23.9 do_select
2 9.7e-04 read_write.c:456 vmlinux-2.6.23.9 vmlinux-2.6.23.9 do_sync_readv_writev
2 9.7e-04 elevator.c:963 vmlinux-2.6.23.9 vmlinux-2.6.23.9 elv_register
2 9.7e-04 namei.c:434 vmlinux-2.6.23.9 vmlinux-2.6.23.9 exec_permission_lite
2 9.7e-04 file_table.c:214 vmlinux-2.6.23.9 vmlinux-2.6.23.9 fget_light
2 9.7e-04 memory.c:903 vmlinux-2.6.23.9 vmlinux-2.6.23.9 follow_page
2 9.7e-04 exec.c:1450 vmlinux-2.6.23.9 vmlinux-2.6.23.9 format_corename
2 9.7e-04 filemap.c:1475 vmlinux-2.6.23.9 vmlinux-2.6.23.9 generic_file_readonly_mmap
2 9.7e-04 page_alloc.c:1152 vmlinux-2.6.23.9 vmlinux-2.6.23.9 get_page_from_freelist
2 9.7e-04 mmu.c:35 vmlinux-2.6.23.9 vmlinux-2.6.23.9 get_vmalloc_info
2 9.7e-04 hrtimer.c:1295 vmlinux-2.6.23.9 vmlinux-2.6.23.9 hrtimer_nanosleep
2 9.7e-04 ll_rw_blk.c:2891 vmlinux-2.6.23.9 vmlinux-2.6.23.9 init_request_from_bio
2 9.7e-04 inode.c:1413 vmlinux-2.6.23.9 vmlinux-2.6.23.9 init_special_inode
2 9.7e-04 kobject_uevent.c:58 vmlinux-2.6.23.9 vmlinux-2.6.23.9 kobject_uevent_env
2 9.7e-04 timer.c:1270 vmlinux-2.6.23.9 vmlinux-2.6.23.9 migrate_timer_list
2 9.7e-04 posix-cpu-timers.c:1484 vmlinux-2.6.23.9 vmlinux-2.6.23.9 posix_cpu_nsleep
2 9.7e-04 posix-cpu-timers.c:1520 vmlinux-2.6.23.9 vmlinux-2.6.23.9 posix_cpu_nsleep_restart
2 9.7e-04 generic.c:562 vmlinux-2.6.23.9 vmlinux-2.6.23.9 proc_kill_inodes
2 9.7e-04 generic.c:525 vmlinux-2.6.23.9 vmlinux-2.6.23.9 proc_register
2 9.7e-04 pnode.c:172 vmlinux-2.6.23.9 vmlinux-2.6.23.9 propagate_mnt
2 9.7e-04 sched_rt.c:96 vmlinux-2.6.23.9 vmlinux-2.6.23.9 put_prev_task_rt
2 9.7e-04 namei.c:471 vmlinux-2.6.23.9 vmlinux-2.6.23.9 real_lookup
2 9.7e-04 file.c:178 vmlinux-2.6.23.9 vmlinux-2.6.23.9 reiserfs_allocate_blocks_for_region
2 9.7e-04 read_write.c:62 vmlinux-2.6.23.9 vmlinux-2.6.23.9 remote_llseek
2 9.7e-04 timer.c:899 vmlinux-2.6.23.9 vmlinux-2.6.23.9 run_local_timers
2 9.7e-04 exec.c:1234 vmlinux-2.6.23.9 vmlinux-2.6.23.9 search_binary_handler
2 9.7e-04 io_apic.c:2506 vmlinux-2.6.23.9 vmlinux-2.6.23.9 set_msi_irq_affinity
2 9.7e-04 page_alloc.c:828 vmlinux-2.6.23.9 vmlinux-2.6.23.9 split_page
2 9.7e-04 mprotect.c:219 vmlinux-2.6.23.9 vmlinux-2.6.23.9 sys_mprotect
2 9.7e-04 sys_ni.c:13 vmlinux-2.6.23.9 vmlinux-2.6.23.9 sys_ni_syscall
2 9.7e-04 select.c:437 vmlinux-2.6.23.9 vmlinux-2.6.23.9 sys_pselect7

Dynticks Causing High Context Switch Rate in ksoftirqd

2 9.7e-04 fremap.c:120 vmlinux-2.6.23.9 vmlinux-2.6.23.9 sys_remap_file_pages
2 9.7e-04 exec.c:128 vmlinux-2.6.23.9 vmlinux-2.6.23.9 sys_uselib
2 9.7e-04 softirq.c:564 vmlinux-2.6.23.9 vmlinux-2.6.23.9 takeover_tasklets
2 9.7e-04 timekeeping.c:296 vmlinux-2.6.23.9 vmlinux-2.6.23.9 timekeeping_resume
2 9.7e-04 inode.c:1175 vmlinux-2.6.23.9 vmlinux-2.6.23.9 touch_atime
2 9.7e-04 workqueue.c:389 vmlinux-2.6.23.9 vmlinux-2.6.23.9 try_to_grab_pending
2 9.7e-04 rmap.c:657 vmlinux-2.6.23.9 vmlinux-2.6.23.9 try_to_unmap_one
2 9.7e-04 timer_stats.c:359 vmlinux-2.6.23.9 vmlinux-2.6.23.9 tstats_write
2 9.7e-04 mmap.c:743 vmlinux-2.6.23.9 vmlinux-2.6.23.9 vma_merge
2 9.7e-04 vsprintf.c:377 vmlinux-2.6.23.9 vmlinux-2.6.23.9 vsnprintf
2 9.7e-04 exit.c:1168 vmlinux-2.6.23.9 vmlinux-2.6.23.9 wait_task_zombie
1 4.8e-04 br_forward.c:36 bridge.ko bridge br_dev_queue_push_xmit
1 4.8e-04 br_input.c:123 bridge.ko bridge br_handle_frame
1 4.8e-04 br_netfilter.c:510 bridge.ko bridge br_nf_pre_routing
1 4.8e-04 br_stp.c:146 bridge.ko bridge br_transmit_config
1 4.8e-04 (no location information) crond crond (no symbols)
1 4.8e-04 (no location information) ld-2.3.5.so ld-2.3.5.so __i686.get_pc_thunk.bx
1 4.8e-04 (no location information) ld-2.3.5.so ld-2.3.5.so _dl_cache_libcmap
1 4.8e-04 (no location information) ld-2.3.5.so ld-2.3.5.so _dl_catch_error
1 4.8e-04 (no location information) ld-2.3.5.so ld-2.3.5.so _dl_load_cache_lookup
1 4.8e-04 (no location information) ld-2.3.5.so ld-2.3.5.so _dl_map_object
1 4.8e-04 (no location information) ld-2.3.5.so ld-2.3.5.so _dl_new_object
1 4.8e-04 (no location information) ld-2.3.5.so ld-2.3.5.so _dl_runtime_resolve
1 4.8e-04 (no location information) ld-2.3.5.so ld-2.3.5.so _dl_start
1 4.8e-04 (no location information) ld-2.3.5.so ld-2.3.5.so _dl_sysdep_read_whole_file
1 4.8e-04 (no location information) ld-2.3.5.so ld-2.3.5.so fixup
1 4.8e-04 (no location information) ld-2.3.5.so ld-2.3.5.so index
1 4.8e-04 (no location information) ld-2.3.5.so ld-2.3.5.so match_symbol
1 4.8e-04 (no location information) ld-2.3.5.so ld-2.3.5.so rtdl_lock_default_lock_recursive
1 4.8e-04 (no location information) ld-2.3.5.so ld-2.3.5.so strlen
1 4.8e-04 (no location information) ld-2.3.5.so ld-2.3.5.so version_check_doit
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so _IO_file_fopen@@GLIBC_2.1
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so _IO_file_open
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so _IO_file_stat
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so _IO_file_underflow@@GLIBC_2.1
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so _IO_file_xsputn@@GLIBC_2.1
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so _IO_flush_all_lockp
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so _IO_getline
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so _IO_getline_info
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so _IO_list_resetlock
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so _IO_setb
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so _IO_un_link
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so ___strtod_l_internal
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so ___strtol_l_internal
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so __close_nocancel
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so __ctype_get_mb_cur_max
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so __i686.get_pc_thunk.cx
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so __libc_sigaction
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so __new_exitfn
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so __read_nocancel
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so __uflow

Dynticks Causing High Context Switch Rate in ksoftirqd

1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so _getopt_internal_r
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so alias_compare
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so argz_stringify
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so bsearch
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so calloc
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so exit
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so fclose@@GLIBC_2.1
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so ferror
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so fork
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so free
1 4.8e-04 (no location information) libc-2.3.5.so libc-2.3.5.so getdelim
1 4.8e-04 (no location # CONFIG_SENSORS_F71805F is not set
CONFIG_SENSORS_FSCHER is not set
CONFIG_SENSORS_FSCPOS is not set
CONFIG_SENSORS_GL518SM is not set
CONFIG_SENSORS_GL520SM is not set
CONFIG_SENSORS_CORETEMP is not set
CONFIG_SENSORS_IT87 is not set
CONFIG_SENSORS_LM63 is not set
CONFIG_SENSORS_LM75 is not set
CONFIG_SENSORS_LM77 is not set
CONFIG_SENSORS_LM78 is not set
CONFIG_SENSORS_LM80 is not set
CONFIG_SENSORS_LM83 is not set
CONFIG_SENSORS_LM85 is not set
CONFIG_SENSORS_LM87 is not set
CONFIG_SENSORS_LM90 is not set
CONFIG_SENSORS_LM92 is not set
CONFIG_SENSORS_LM93 is not set
CONFIG_SENSORS_MAX1619 is not set
CONFIG_SENSORS_MAX6650 is not set
CONFIG_SENSORS_PC87360 is not set
CONFIG_SENSORS_PC87427 is not set
CONFIG_SENSORS_SIS5595 is not set
CONFIG_SENSORS_DME1737 is not set
CONFIG_SENSORS_SMSC47M1 is not set
CONFIG_SENSORS_SMSC47M192 is not set
CONFIG_SENSORS_SMSC47B397 is not set
CONFIG_SENSORS_THMC50 is not set
CONFIG_SENSORS_VIA686A is not set
CONFIG_SENSORS_VT1211 is not set
CONFIG_SENSORS_VT8231 is not set
CONFIG_SENSORS_W83781D is not set
CONFIG_SENSORS_W83791D is not set
CONFIG_SENSORS_W83792D is not set
CONFIG_SENSORS_W83793 is not set
CONFIG_SENSORS_W83L785TS is not set
CONFIG_SENSORS_W83627HF is not set
CONFIG_SENSORS_W83627EHF is not set
CONFIG_SENSORS_HDAPS is not set
CONFIG_SENSORS_APPLESMC is not set

Dynticks Causing High Context Switch Rate in ksoftirqd

```
# CONFIG_HWMON_DEBUG_CHIP is not set

#
# Multifunction device drivers
#
# CONFIG_MFD_SM501 is not set

#
# Multimedia devices
#
# CONFIG_VIDEO_DEV is not set
# CONFIG_DVB_CORE is not set
CONFIG_DAB=y
# CONFIG_USB_DABUSB is not set

#
# Graphics support
#
# CONFIG_BACKLIGHT_LCD_SUPPORT is not set

#
# Display device support
#
# CONFIG_DISPLAY_SUPPORT is not set
# CONFIG_VGASTATE is not set
CONFIG_VIDEO_OUTPUT_CONTROL=m
# CONFIG_FB is not set

#
# Console display driver support
#
CONFIG_VGA_CONSOLE=y
# CONFIG_VGACON_SOFT_SCROLLBACK is not set
CONFIG_VIDEO_SELECT=y
# CONFIG_MDA_CONSOLE is not set
CONFIG_DUMMY_CONSOLE=y

#
# Sound
#
CONFIG_SOUND=m

#
# Advanced Linux Sound Architecture
#
CONFIG_SND=m
CONFIG_SND_TIMER=m
CONFIG_SND_PCM=m
CONFIG_SND_HWDEP=m
CONFIG_SND_RAWMIDI=m
CONFIG_SND_SEQUENCER=m
```

Dynticks Causing High Context Switch Rate in ksoftirqd

```
CONFIG_SND_SEQ_DUMMY=m
CONFIG_SND_OSSEMUL=y
CONFIG_SND_MIXER_OSS=m
CONFIG_SND_PCM_OSS=m
CONFIG_SND_PCM_OSS_PLUGINS=y
CONFIG_SND_SEQUENCER_OSS=y
CONFIG_SND_RTCTIMER=m
CONFIG_SND_SEQ_RTCTIMER_DEFAULT=y
# CONFIG_SND_DYNAMIC_MINORS is not set
CONFIG_SND_SUPPORT_OLD_API=y
# CONFIG_SND_VERBOSE_PROCFS is not set
# CONFIG_SND_VERBOSE_PRINTK is not set
# CONFIG_SND_DEBUG is not set

#
# Generic devices
#
CONFIG_SND_MPU401_UART=m
CONFIG_SND_OPL3_LIB=m
CONFIG_SND_AC97_CODEC=m
CONFIG_SND_DUMMY=m
CONFIG_SND_VIRMIDI=m
# CONFIG_SND_MTPAV is not set
# CONFIG_SND_MTS64 is not set
CONFIG_SND_SERIAL_U16550=m
CONFIG_SND_MPU401=m
# CONFIG_SND_PORTMAN2X4 is not set

#
# ISA devices
#
# CONFIG_SND_ADLIB is not set
# CONFIG_SND_AD1816A is not set
# CONFIG_SND_AD1848 is not set
# CONFIG_SND_ALS100 is not set
# CONFIG_SND_AZT2320 is not set
# CONFIG_SND_CMI8330 is not set
# CONFIG_SND_CS4231 is not set
# CONFIG_SND_CS4232 is not set
# CONFIG_SND_CS4236 is not set
# CONFIG_SND_DT019X is not set
# CONFIG_SND_ES968 is not set
# CONFIG_SND_ES1688 is not set
# CONFIG_SND_ES18XX is not set
# CONFIG_SND_GUSCLASSIC is not set
# CONFIG_SND_GUSEXTREME is not set
# CONFIG_SND_GUSMAX is not set
# CONFIG_SND_INTERWAVE is not set
# CONFIG_SND_INTERWAVE_STB is not set
# CONFIG_SND_OPL3SA2 is not set
# CONFIG_SND_OPTI92X_AD1848 is not s
```