

[BUG] 2.6.24.4 – kernel bug at kernel/sched.c:5154!

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2008-03/msg12035.html>

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Hi,

The 2.6.24.4 kernel panic's while booting up on powerpc, The kernel was compiled with allmodconfig. (please let me know if the .config file is needed)

```
[ 0.000000] Kernel command line: ro console=hvc0 rhgb quiet root=LABEL=/1 autobench_args:
root=/dev/sda3 ABAT:1206964330
[ 0.103959] BUG: scheduling while atomic: kthreadd/2/0x0007431c
[ 0.104051] BUG: scheduling while atomic: kthreadd/3/0xbe118168
[ 0.104119] -----[ cut here ]-----
[ 0.104127] kernel BUG at kernel/sched.c:5154!
cpu 0x0: Vector: 700 (Program Check) at [c0000001be11bd70]
pc: c00000000070b34: .migration_thread+0x64/0x31c
lr: c00000000093878: .kthread+0x78/0xc4
sp: c0000001be11bff0
msr: 800000000029032
current = 0xc0000000ee0ed740
paca = 0xc00000000497500
pid = 3, comm = kthreadd
kernel BUG at kernel/sched.c:5154!
enter ? for help
[c0000001be11c0b0] c00000000093878 .kthread+0x78/0xc4
[c0000001be11c140] c0000000002906c .kernel_thread+0x4c/0x68
```

```
0:mon> r
R00 = 0000000000000001 R16 = 0000000000000000
R01 = c0000001be11bff0 R17 = 0000000000000000
R02 = c00000000053ab90 R18 = 0000000000000000
R03 = 0000000000000000 R19 = 4000000001c00000
R04 = c0000000ee0ed740 R20 = c00000000453218
R05 = 0000000000000000 R21 = 000000002053488
R06 = c00000000497500 R22 = 0000000002c2000
R07 = c0000001be1181b0 R23 = c00000000453488
R08 = 0000000000000000 R24 = 000000002053218
R09 = c0000000ee0ed73f R25 = 0000000000000000
R10 = ffffffffcccc R26 = c000000005d40f8
R11 = c00000000497500 R27 = c000000005d00b0
```

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```
R12 = c0000000002906c R28 = c0000001be0c3ca8
R13 = c000000000497500 R29 = c000000000685c00
R14 = 0000000000000000 R30 = c0000000004f7210
R15 = 0000000000000000 R31 = c00000000050c788
pc = c00000000070b34 .migration_thread+0x64/0x31c
lr = c00000000093878 .kthread+0x78/0xc4
msr = 800000000029032 cr = 28000024
ctr = c00000000070ad0 xer = 0000000020000004 trap = 700
```

```
0:mon> t
[c0000001be11c0b0] c00000000093878 .kthread+0x78/0xc4
[c0000001be11c140] c0000000002906c .kernel_thread+0x4c/0x68
0:mon> S
msr = 800000000001032 sprg0= 0000000000000000
pvr = 00000000003b0200 sprg1= c000000000497500
dec = 00000000c4ac67ed sprg2= c000000000497500
sp = c0000001be11b620 sprg3= c000000000497500
toc = c00000000053ab90 dar = 0000000000000000
```

```
0xc00000000070b34 is in migration_thread (kernel/sched.c:5154).
5149 {
5150 int cpu = (long)data;
5151 struct rq *rq;
5152
5153 rq = cpu_rq(cpu);
5154 BUG_ON(rq->migration_thread != current);
5155
5156 set_current_state(TASK_INTERRUPTIBLE);
5157 while (!kthread_should_stop()) {
5158 struct migration_req *req;
---
```

Thanks & Regards,
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Linux Technology Center,
IBM, ISTL.

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