

[PATCH] ppc64: Fix cpu_up race

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-07/6119.html>

From: Srivatsa Vaddagiri (vatsa_at_in.ibm.com)

Date: 07/30/04

Date: Fri, 30 Jul 2004 10:54:13 +0530
To: Andrew Morton <akpm@osdl.org>

On Thu, Jul 29, 2004 at 03:30:11PM +1000, Anton Blanchard wrote:

>
>> *I think Anton pushed this to ameslab. I presume there should be some mechanism*
>> *for ameslab stuff to be included mainline. If there is such mechanism, then*
>> *I dont want to push the patch myself.*
>
> *It looks good, could you send it directly to akpm, ccing me?*

Andrew,

Patch below fixes a cpu_up race in PPC64. Please apply.

Signed-off-by: Srivatsa Vaddagiri <vatsa@in.ibm.com>

Signed-off-by: Anton Blanchard <anton@samba.org>

```
linux-2.6.8-rc2-vatsa/arch/ppc64/kernel/smp.c | 10 ++++++--
1 files changed, 9 insertions(+), 1 deletion(-)
diff -puN arch/ppc64/kernel/smp.c~ppc64_cpu_up_fix arch/ppc64/kernel/smp.c
--- linux-2.6.8-rc2/arch/ppc64/kernel/smp.c~ppc64_cpu_up_fix      2004-07-30 10:33:55.000000000 +0530
+++ linux-2.6.8-rc2-vatsa/arch/ppc64/kernel/smp.c                2004-07-30 10:34:02.000000000 +0530
@@ -927,7 +927,11 @@ int __devinit __cpu_up(unsigned int cpu)

     if (smp_ops->give_timebase)
         smp_ops->give_timebase();
-    cpu_set(cpu, cpu_online_map);
+
+    /* Wait until cpu puts itself in the online map */
+    while (!cpu_online(cpu))
+        cpu_relax();
+
     return 0;
 }

@@ -963,6 +967,10 @@ int __devinit start_secondary(void *unus
 #endif
 #endif

+    spin_lock(&call_lock);
+    cpu_set(cpu, cpu_online_map);
+    spin_unlock(&call_lock);
+
     local_irq_enable();
```

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```
return cpu_idle(NULL);
```

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Thanks and Regards,
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