

[PATCH] [10/34] i386: use safe_apic_wait_icr_idle in smpboot.c

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2007-04/msg12060.html>

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 - *Date:* Mon, 30 Apr 2007 17:49:42 +0200 (CEST)
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__inquire_remote_apic is used for APIC debugging, so use safe_apic_wait_icr_idle instead of apic_wait_icr_idle to avoid possible lockups when APIC delivery fails.

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Signed-off-by: Andi Kleen <ak@xxxxxxx>

arch/i386/kernel/smpboot.c | 7 +++++--
1 file changed, 5 insertions(+), 2 deletions(-)

Index: linux/arch/i386/kernel/smpboot.c

```
=====
--- linux.orig/arch/i386/kernel/smpboot.c
+++ linux/arch/i386/kernel/smpboot.c
@@ -521,7 +521,8 @@ static inline void __inquire_remote_apic
{
int i, regs[] = { APIC_ID >> 4, APIC_LVR >> 4, APIC_SPIV >> 4 };
char *names[] = { "ID", "VERSION", "SPIV" };
- int timeout, status;
+ int timeout;
+ unsigned long status;

printk("Inquiring remote APIC #%d...\n", apicid);

@@ -531,7 +532,9 @@ static inline void __inquire_remote_apic
/*
* Wait for idle.
*/
- apic_wait_icr_idle();
+ status = safe_apic_wait_icr_idle();
+ if (status)
+ printk("a previous APIC delivery may have failed\n");
```

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```
apic_write_around(APIC_ICR2, SET_APIC_DEST_FIELD(apicid));  
apic_write_around(APIC_ICR, APIC_DM_REMRD | regs[i]);
```

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