

[PATCH 2/4] stack overflow safe kdump (2.6.15-rc3-i386) – crash

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2005-11/9666.html>

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Date: 11/30/05

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Replace `smp_processor_id` with the stack overflow safe `safe_smp_processor_id` in the reboot patch to the crash capture kernel.

```
diff -urNp linux-2.6.15-rc3/arch/i386/kernel/crash.c linux-2.6.15-rc3-sov/arch/i386/kernel/crash.c
```

```
--- linux-2.6.15-rc3/arch/i386/kernel/crash.c      2005-10-28 09:02:08.000000000 +0900
```

```
+++ linux-2.6.15-rc3-sov/arch/i386/kernel/crash.c      2005-11-30 14:55:20.000000000 +0900
```

```
@@ -120,7 +120,7 @@ static void crash_save_self(struct pt_regs  
    struct pt_regs regs;  
    int cpu;
```

```
-    cpu = smp_processor_id();
```

```
+    cpu = safe_smp_processor_id();
```

```
    if (saved_regs)
```

```
        crash_setup_regs(&regs, saved_regs);
```

```
    else
```

```
@@ -211,7 +211,7 @@ void machine_crash_shutdown(struct pt_regs  
    local_irq_disable();
```

```
    /* Make a note of crashing cpu. Will be used in NMI callback.*/
```

```
-    crashing_cpu = smp_processor_id();
```

```
+    crashing_cpu = safe_smp_processor_id();
```

```
    nmi_shootdown_cpus();
```

```
    lapic_shutdown();
```

```
    #if defined(CONFIG_X86_IO_APIC)
```

```
-
```

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