

## [PATCH 3/4] stack overflow safe kdump ( 2.6.15-rc3-i386) – do\_nmi

**Source:** <http://linux.derkeiler.com/Mailing-Lists/Kernel/2005-11/9667.html>

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crash\_nmi\_callback is called right after a system crash which might have caused by stack overflow, thus smp\_processor\_id should not be trusted. Use the safe replacement safe\_smp\_processor\_id.

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```
diff -urNp linux-2.6.15-rc3/arch/i386/kernel/traps.c linux-2.6.15-rc3-sov/arch/i386/kernel/traps.c
--- linux-2.6.15-rc3/arch/i386/kernel/traps.c      2005-11-30 14:51:49.000000000 +0900
+++ linux-2.6.15-rc3-sov/arch/i386/kernel/traps.c  2005-11-30 14:55:57.000000000 +0900
@@ -648,7 +648,7 @@ fastcall void do_nmi(struct pt_regs * re
```

```
    nmi_enter();
```

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

```
#ifdef CONFIG_HOTPLUG_CPU
    if (!cpu_online(cpu)) {
```

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