

# [PATCH] don't use flush\_tlb\_all in suspend time

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*Source:* <http://linux.derkeiler.com/Mailing-Lists/Kernel/2006-04/msg06654.html>

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  - *Date:* Sun, 30 Apr 2006 11:24:22 +0800
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flush\_tlb\_all uses on\_each\_cpu, which will disable/enable interrupt.  
In suspend/resume time, this will make interrupt wrongly enabled.

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linux-2.6.17-rc3-root/arch/i386/kernel/acpi/sleep.c | 2 +-  
linux-2.6.17-rc3-root/arch/i386/mm/init.c | 5 ++++-  
linux-2.6.17-rc3-root/arch/x86\_64/kernel/acpi/sleep.c | 4 +++-  
3 files changed, 7 insertions(+), 4 deletions(-)

```
diff -puN arch/i386/kernel/acpi/sleep.c~flush_tlb_all_check arch/i386/kernel/acpi/sleep.c
--- linux-2.6.17-rc3/arch/i386/kernel/acpi/sleep.c~flush_tlb_all_check 2006-04-29 08:45:24.000000000
+0800
+++ linux-2.6.17-rc3-root/arch/i386/kernel/acpi/sleep.c 2006-04-29 08:46:49.000000000 +0800
@@ -29,7 +29,7 @@ static void init_low_mapping(pgd_t * pgd
set_pgd(pgd, *(pgd + USER_PTRS_PER_PGD));
pgd_ofs++, pgd++;
}
- flush_tlb_all();
+ local_flush_tlb();
}

/**
diff -puN arch/i386/mm/init.c~flush_tlb_all_check arch/i386/mm/init.c
--- linux-2.6.17-rc3/arch/i386/mm/init.c~flush_tlb_all_check 2006-04-29 08:47:05.000000000 +0800
+++ linux-2.6.17-rc3-root/arch/i386/mm/init.c 2006-04-29 08:48:15.000000000 +0800
@@ -420,7 +420,10 @@ void zap_low_mappings (void)
#else
set_pgd(swapper_pg_dir+i, __pgd(0));
#endif
- flush_tlb_all();
+ if (cpus_weight(cpu_online_map) == 1)
+ local_flush_tlb();
+ else
+ flush_tlb_all();
}
```

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```
static int disable_nx __initdata = 0;
diff -puN arch/x86_64/kernel/acpi/sleep.c~flush_tlb_all_check arch/x86_64/kernel/acpi/sleep.c
--- linux-2.6.17-rc3/arch/x86_64/kernel/acpi/sleep.c~flush_tlb_all_check 2006-04-29
09:16:48.000000000 +0800
+++ linux-2.6.17-rc3-root/arch/x86_64/kernel/acpi/sleep.c 2006-04-29 09:17:19.000000000 +0800
@@ -66,7 +66,7 @@ static void init_low_mapping(void)
pgd_t *slot0 = pgd_offset(current->mm, 0UL);
low_ptr = *slot0;
set_pgd(slot0, *pgd_offset(current->mm, PAGE_OFFSET));
- flush_tlb_all();
+ local_flush_tlb();
}

/**
@@ -92,7 +92,7 @@ int acpi_save_state_mem(void)
void acpi_restore_state_mem(void)
{
set_pgd(pgd_offset(current->mm, 0UL), low_ptr);
- flush_tlb_all();
+ local_flush_tlb();
}

/**
-
```

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