

Re: [PATCH] Replace "vmalloc\_node" with "vmalloc" for no-mmU architectures in oprofile driver

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- *From:* Andrew Morton <[akpm@xxxxxxxx](mailto:akpm@xxxxxxxx)>
  - *Date:* Mon, 27 Feb 2006 19:33:22 -0800
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"Luke Yang" <[luke.adi@xxxxxxxx](mailto:luke.adi@xxxxxxxx)> wrote:

This is a fix to the oprofile driver. It calls "vmalloc\_node()" but no-mmU CPUs do not have that function. "vmalloc()" is OK for no-mmU CPUs.

Signed-off-by: Luke Yang <[luke.adi@xxxxxxxx](mailto:luke.adi@xxxxxxxx)>

Index: linux-2.6/drivers/oprofile/cpu\_buffer.c

```
-----  
--- linux-2.6/drivers/oprofile/cpu_buffer.c 2006-02-16  
16:16:35.000000000 +0800  
+++ linux-2.6/drivers/oprofile/cpu_buffer.c 2006-02-16  
16:20:58.000000000 +0800  
@@ -51,9 +51,13 @@
```

```
for_each_online_cpu(i) {  
    struct oprofile_cpu_buffer * b = &cpu_buffer[i];  
    -  
    +  
    +#ifdef MMU  
    b->buffer = vmalloc_node(sizeof(struct op_sample) * buffer_size,  
    cpu_to_node(i));  
    +#else  
    + b->buffer = vmalloc(sizeof(struct op_sample) * buffer_size);  
    +#endif  
    if (!b->buffer)  
        goto fail;
```

You wanted CONFIG\_MMU there.

A better fix is to provide vmalloc\_node() on nommu architectures. COuld you compile-test this please?

Re: [PATCH] Replace "vmalloc\_node" with "vmalloc" for no-mm architectures in oprofile driver

```
--- devel/mm/nommu.c~nommu-implement-vmalloc_node 2006-02-27 19:30:47.000000000 -0800
+++ devel-akpm/mm/nommu.c 2006-02-27 19:31:53.000000000 -0800
@@ -53,7 +53,6 @@ DECLARE_RWSEM(nommu_vma_sem);
struct vm_operations_struct generic_file_vm_ops = {
};

-EXPORT_SYMBOL(vmalloc);
EXPORT_SYMBOL(vfree);
EXPORT_SYMBOL(vmalloc_to_page);
EXPORT_SYMBOL(vmalloc_32);
@@ -205,6 +204,13 @@ void *vmalloc(unsigned long size)
{
return __vmalloc(size, GFP_KERNEL | __GFP_HIGHMEM, PAGE_KERNEL);
}
+EXPORT_SYMBOL(vmalloc);
+
+void *vmalloc_node(unsigned long size, int node)
+{
+ return vmalloc(size);
+}
+EXPORT_SYMBOL(vmalloc_node);

/*
* vmalloc_32 - allocate virtually contiguous memory (32bit addressable)
-
-

```

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