

[PATCH] nr_slab accounting fix

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2003-11/4594.html>

From: Manfred Spraul (manfred_at_colorfullife.com)

Date: 11/29/03

Date: Sat, 29 Nov 2003 15:03:06 +0100
To: Andrew Morton <akpm@digeo.com>

Hi Andrew,

if alloc_slabmgmt fails, then kmem_freepages() calls sub_page_state(), although nr_slab was not yet increased. The attached patch fixes that by moving the inc_page_state into kmem_getpages(). Could you add it to your next -mm kernel?

--

Manfred

```
// $Header$
// Kernel Version:
// VERSION = 2
// PATCHLEVEL = 6
// SUBLEVEL = 0
// EXTRAVERSION = -test11
--- 2.6/mm/slab.c 2003-11-29 09:46:35.000000000 +0100
+++ build-2.6/mm/slab.c 2003-11-29 14:50:06.000000000 +0100
@@ -812,6 +812,7 @@
     int i = (1 << cachep->gfporder);
     struct page *page = virt_to_page(addr);

+ add_page_state(nr_slab, i);
     while (i-- > 0) {
         SetPageSlab(page);
         page++;
@@ -1608,7 +1609,6 @@
     do {
         SET_PAGE_CACHE(page, cachep);
         SET_PAGE_SLAB(page, slabp);
- inc_page_state(nr_slab);
         page++;
     } while (i-- > 0);

--- 2.6/include/linux/page-flags.h 2003-10-25 20:44:06.000000000 +0200
+++ build-2.6/include/linux/page-flags.h 2003-11-29 14:45:57.000000000 +0100
```

Linux-Kernel: [PATCH] nr_slab accounting fix

@@ -133,6 +133,7 @@

```
#define inc_page_state(member) mod_page_state(member, 1UL)
#define dec_page_state(member) mod_page_state(member, 0UL - 1)
+#define add_page_state(member,delta) mod_page_state(member, (delta))
#define sub_page_state(member,delta) mod_page_state(member, 0UL - (delta))
```

—

To unsubscribe from this list: send the line "unsubscribe linux-kernel" in the body of a message to majordomo@vger.kernel.org

More majordomo info at <http://vger.kernel.org/majordomo-info.html>

Please read the FAQ at <http://www.tux.org/lkml/>