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Subject: [PATCH v2 01/29] slab: dup name string

Posted by [Glauber Costa](#) on Fri, 11 May 2012 17:44:03 GMT

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The slab allocator creates a copy of the name string, and frees it later. I would like them both to behave the same, whether it is the slab starting to create a copy of it itself, or the slab ceasing to.

This is because when I create memcg copies of it, I have to kmalloc strings for the new names, and having the allocators to behave differently here, would make it a lot uglier.

My first submission removed the duplication for the slab. But the code started to get a bit complicated when dealing with deletion of chained caches. Also, Christoph voiced his opinion that patching the slab to keep copies would be better.

So here it is.

Signed-off-by: Glauber Costa <[glommer@parallels.com](mailto:glommer@parallels.com)>

CC: Christoph Lameter <[cl@linux.com](mailto:cl@linux.com)>

CC: Pekka Enberg <[penberg@cs.helsinki.fi](mailto:penberg@cs.helsinki.fi)>

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mm/slab.c | 3 +-+

1 files changed, 2 insertions(+), 1 deletions(-)

```
diff --git a/mm/slab.c b/mm/slab.c
index e901a36..91b9c13 100644
--- a/mm/slab.c
+++ b/mm/slab.c
@@ -2118,6 +2118,7 @@ static void __kmem_cache_destroy(struct kmem_cache *cachep)
    kfree(l3);
}
}
+ kfree(cachep->name);
    kmem_cache_free(&cache_cache, cachep);
}

@@ -2526,7 +2527,7 @@ kmem_cache_create (const char *name, size_t size, size_t align,
    BUG_ON(ZERO_OR_NULL_PTR(cachep->slabp_cache));
}
cachep->ctor = ctor;
- cachep->name = name;
+ cachep->name = kstrdup(name, GFP_KERNEL);

if (setup_cpu_cache(cachep, gfp)) {
    __kmem_cache_destroy(cachep);
```

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## 1.7.7.6

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