
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 slub 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 slub 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 slub. 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>
CC: Christoph Lameter <cl@linux.com>
CC: Pekka Enberg <penberg@cs.helsinki.fi>

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);

--

1.7.7.6
