
Subject: [PATCH v3 10/28] slab/slub: struct memcg_params
Posted by [Glauber Costa](#) on Fri, 25 May 2012 13:03:30 GMT
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For the kmem slab controller, we need to record some extra information in the kmem_cache structure.

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```
include/linux/slab.h    | 14 ++++++  
include/linux/slab_def.h |  4 +++  
include/linux/slub_def.h |  3 ++  
3 files changed, 21 insertions(+), 0 deletions(-)
```

```
diff --git a/include/linux/slab.h b/include/linux/slab.h  
index a595dce..dbf36b5 100644  
--- a/include/linux/slab.h  
+++ b/include/linux/slab.h  
@@ -153,6 +153,20 @@ unsigned int kmem_cache_size(struct kmem_cache *);  
#define ARCH_SLAB_MINALIGN __alignof__(unsigned long long)  
#endif  
  
+#ifdef CONFIG_CGROUP_MEM_RES_CTLR_KMEM  
+struct mem_cgroup_cache_params {  
+ struct mem_cgroup *memcg;  
+ int id;  
+ atomic_t refcnt;  
+  
+/#ifdef CONFIG_SLAB  
+ /* Original cache parameters, used when creating a memcg cache */  
+ size_t orig_align;  
+  
+/#endif  
+};  
+/#endif  
+  
/*  
 * Common kmalloc functions provided by all allocators  
 */  
diff --git a/include/linux/slab_def.h b/include/linux/slab_def.h  
index cba3139..06e4a3e 100644  
--- a/include/linux/slab_def.h
```

```
+++ b/include/linux/slab_def.h
@@ -83,6 +83,10 @@ struct kmem_cache {
    int obj_size;
#endif

+ifdef CONFIG_CGROUP_MEM_RES_CTLR_KMEM
+ struct mem_cgroup_cache_params memcg_params;
+endif
+
/* 6) per-cpu/per-node data, touched during every alloc/free */
/*
 * We put array[] at the end of kmem_cache, because we want to size
diff --git a/include/linux/slub_def.h b/include/linux/slub_def.h
index c2f8c8b..5f5e942 100644
--- a/include/linux/slub_def.h
+++ b/include/linux/slub_def.h
@@ -102,6 +102,9 @@ struct kmem_cache {
#ifndef CONFIG_SYSFS
    struct kobject kobj; /* For sysfs */
#endif
+ifdef CONFIG_CGROUP_MEM_RES_CTLR_KMEM
+ struct mem_cgroup_cache_params memcg_params;
+endif

#ifndef CONFIG_NUMA
/*
--
```

1.7.7.6
