
Subject: [PATCH 01/10] slab/slub: struct memcg_params
Posted by [Glauber Costa](#) on Wed, 25 Jul 2012 14:38:12 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    |  7 ++++++++
include/linux/slab_def.h |  4 ++++
include/linux/slub_def.h |  3 +++
3 files changed, 14 insertions(+)
```

```
diff --git a/include/linux/slab.h b/include/linux/slab.h
index 0dd2dfa..3152bcd 100644
--- a/include/linux/slab.h
+++ b/include/linux/slab.h
@@ -177,6 +177,13 @@ unsigned int kmem_cache_size(struct kmem_cache *);
#define ARCH_SLAB_MINALIGN __alignof__(unsigned long long)
#endif
```

```
+#ifdef CONFIG_MEMCG_KMEM
+struct mem_cgroup_cache_params {
+ struct mem_cgroup *memcg;
+ int id;
+};
+#endif
+
/*
 * Common kmalloc functions provided by all allocators
 */
```

```
diff --git a/include/linux/slab_def.h b/include/linux/slab_def.h
index 0c634fa..39c5e9d 100644
--- a/include/linux/slab_def.h
+++ b/include/linux/slab_def.h
@@ -83,6 +83,10 @@ struct kmem_cache {
 int obj_offset;
#endif /* CONFIG_DEBUG_SLAB */

+#ifdef CONFIG_MEMCG_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 df448ad..8bb8ad2 100644
--- a/include/linux/slub_def.h
+++ b/include/linux/slub_def.h
@@ -101,6 +101,9 @@ struct kmem_cache {
#endif CONFIG_SYSFS
    struct kobject kobj; /* For sysfs */
#endif
+#ifdef CONFIG_MEMCG_KMEM
+    struct mem_cgroup_cache_params memcg_params;
#endif

#ifndef CONFIG_NUMA
/*
--
```

1.7.10.4
