
Subject: [PATCH v4 10/25] slab/slub: struct memcg_params
Posted by [Glauber Costa](#) on Mon, 18 Jun 2012 10:28:03 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 | 8 ++++++++
include/linux/slab_def.h | 4 ++++
include/linux/slub_def.h | 3 +++
3 files changed, 15 insertions(+)

```
diff --git a/include/linux/slab.h b/include/linux/slab.h
index 3c2181a..e007cc5 100644
--- a/include/linux/slab.h
+++ b/include/linux/slab.h
@@ -177,6 +177,14 @@ 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;
+};
+#endif
+
+/*
+ * Common kmalloc functions provided by all allocators
+ */
```

```
diff --git a/include/linux/slab_def.h b/include/linux/slab_def.h
index 0c634fa..04ca5be 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_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 df448ad..7637f3b 100644
--- a/include/linux/slub_def.h
+++ b/include/linux/slub_def.h
@@ -101,6 +101,9 @@ struct kmem_cache {
#ifdef CONFIG_SYSFS
    struct kobject kobj; /* For sysfs */
#endif
+#ifdef CONFIG_CGROUP_MEM_RES_CTLR_KMEM
+ struct mem_cgroup_cache_params memcg_params;
+#endif

#ifdef CONFIG_NUMA
/*
--
1.7.10.2
```
