
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 {
#ifdef CONFIG_SYSFS
    struct kobject kobj; /* For sysfs */
#endif
#ifdef CONFIG_MEMCG_KMEM
+ struct mem_cgroup_cache_params memcg_params;
#endif

#ifdef CONFIG_NUMA
    /*
--
1.7.10.4

```
