
Subject: [PATCH 2/5] blk-cgroup: introduce task_to_blkio_cgroup()

Posted by [Andrea Righi](#) on Tue, 22 Feb 2011 17:12:53 GMT

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Introduce a helper function to retrieve a blkio cgroup from a task.

Signed-off-by: Andrea Righi <arighi@develer.com>

```
block/blk-cgroup.c      | 7 +++++++
include/linux/blk-cgroup.h | 4 ++++
2 files changed, 11 insertions(+), 0 deletions(-)
```

```
diff --git a/block/blk-cgroup.c b/block/blk-cgroup.c
```

```
index bf9d354..f283ae1 100644
```

```
--- a/block/blk-cgroup.c
```

```
+++ b/block/blk-cgroup.c
```

```
@@ -107,6 +107,13 @@ blkio_policy_search_node(const struct blkio_cgroup *blkcg, dev_t dev,
    return NULL;
}
```

```
+struct blkio_cgroup *task_to_blkio_cgroup(struct task_struct *task)
```

```
+{
```

```
+ return container_of(task_subsys_state(task, blkio_subsys_id),
```

```
+ struct blkio_cgroup, css);
```

```
+}
```

```
+EXPORT_SYMBOL_GPL(task_to_blkio_cgroup);
```

```
+
```

```
struct blkio_cgroup *cgroup_to_blkio_cgroup(struct cgroup *cgroup)
```

```
{
```

```
    return container_of(cgroup_subsys_state(cgroup, blkio_subsys_id),
```

```
diff --git a/include/linux/blk-cgroup.h b/include/linux/blk-cgroup.h
```

```
index 5e48204..41b59db 100644
```

```
--- a/include/linux/blk-cgroup.h
```

```
+++ b/include/linux/blk-cgroup.h
```

```
@@ -287,6 +287,7 @@ static inline void blkicg_set_start_empty_time(struct blkio_group *blkg)
{}
extern struct blkio_cgroup blkio_root_cgroup;
```

```
extern bool blkio_cgroup_disabled(void);
```

```
extern struct blkio_cgroup *cgroup_to_blkio_cgroup(struct cgroup *cgroup);
```

```
+extern struct blkio_cgroup *task_to_blkio_cgroup(struct task_struct *task);
```

```
extern void blkicg_add_blkio_group(struct blkio_cgroup *blkcg,
    struct blkio_group *blkg, void *key, dev_t dev,
    enum blkio_policy_id plid);
```

```
@@ -311,6 +312,9 @@ static inline bool blkio_cgroup_disabled(void) { return true; }
```

```
static inline struct blkio_cgroup *
```

```
cgroup_to_blkio_cgroup(struct cgroup *cgroup) { return NULL; }
```

```
+static inline struct blkio_cgroup *
```

```
+task_to_blkio_cgroup(struct task_struct *task) { return NULL; }  
+  
static inline void blkio_cg_add_blkio_group(struct blkio_cgroup *blkcg,  
      struct blkio_group *blkg, void *key, dev_t dev,  
      enum blkio_policy_id plid) {}  
--
```

1.7.1

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