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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](mailto:arighi@develer.com)>

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```
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 blkiocg_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 blkiocg_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 blkiocg_add_blkio_group(struct blkio_cgroup *blkcg,
    struct blkio_group *blkg, void *key, dev_t dev,
    enum blkio_policy_id plid) {}
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```

1.7.1

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Containers@lists.linux-foundation.org

<https://lists.linux-foundation.org/mailman/listinfo/containers>

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