
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 *blkcg)
{

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 *blkcg, 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 blkicg_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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