Subject: [PATCH] Cleanup elevator_ops->trim function
Posted by Pavel Emelianov on Thu, 19 Jul 2007 14:55:08 GMT
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The elevator_ops's member "trim" is declared and called not like
all the other ones. Was this deliberate?

Signed-off-by: Pavel Emelyanov <xemul@openvz.org>

```
 block/as-iosched.c       |    2 +-
 block/cfq-iosched.c      |    2 +-
 block/elevator.c         |    4 ++--
 include/linux/elevator.h |    3 ++-
 4 files changed, 6 insertions(+), 5 deletions(-)

diff --git a/block/as-iosched.c b/block/as-iosched.c
index 3e316dd..add524c 100644
--- a/block/as-iosched.c
+++ b/block/as-iosched.c
@@ -1451,7 +1451,7 @@ static struct elevator_type iosched_as =
   .elevator_may_queue_fn = as_may_queue,
   .elevator_init_fn =  as_init_queue,
   .elevator_exit_fn =  as_exit_queue,
-  .trim =    as_trim,
+  .elevator_trim_fn =  as_trim,
  },

  .elevator_attrs = as_attrs,
diff --git a/block/cfq-iosched.c b/block/cfq-iosched.c
index 9755a3c..5ee8c39 100644
--- a/block/cfq-iosched.c
+++ b/block/cfq-iosched.c
@@ -2237,7 +2237,7 @@ static struct elevator_type iosched_cfq
   .elevator_may_queue_fn = cfq_may_queue,
   .elevator_init_fn =  cfq_init_queue,
   .elevator_exit_fn =  cfq_exit_queue,
-  .trim =    cfq_free_io_context,
+  .elevator_trim_fn =  cfq_free_io_context,
  },
  .elevator_attrs = cfq_attrs,
  .elevator_name = "cfq",
diff --git a/block/elevator.c b/block/elevator.c
index d265963..ae7601f 100644
--- a/block/elevator.c
+++ b/block/elevator.c
@@ -983,12 +983,12 @@ void elv_unregister(struct elevator_type
```

```
  /*
   * Iterate every thread in the process to remove the io contexts.
   */
- if (e->ops.trim) {
+ if (e->ops.elevator_trim_fn) {
   read_lock(&tasklist_lock);
   do_each_thread(g, p) {
    task_lock(p);
    if (p->io_context)
-    e->ops.trim(p->io_context);
+    e->ops.elevator_trim_fn(p->io_context);
    task_unlock(p);
   } while_each_thread(g, p);
   read_unlock(&tasklist_lock);
diff --git a/include/linux/elevator.h b/include/linux/elevator.h
index e88fcbc..896831a 100644
--- a/include/linux/elevator.h
+++ b/include/linux/elevator.h
@@ -29,6 +29,7 @@ typedef void (elevator_deactivate_req_fn

 typedef void *(elevator_init_fn) (request_queue_t *);
 typedef void (elevator_exit_fn) (elevator_t *);
+typedef void (elevator_trim_fn) (struct io_context *);

 struct elevator_ops
 {
@@ -55,7 +56,7 @@ struct elevator_ops

  elevator_init_fn *elevator_init_fn;
  elevator_exit_fn *elevator_exit_fn;
- void (*trim)(struct io_context *);
+ elevator_trim_fn *elevator_trim_fn;
 };

 #define ELV_NAME_MAX (16)
```

Subject: Re: [PATCH] Cleanup elevator_ops->trim function
Posted by Jens Axboe on Thu, 19 Jul 2007 17:29:50 GMT

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On Thu, Jul 19 2007, Pavel Emelyanov wrote:
> The elevator_ops's member "trim" is declared and called not like
> all the other ones. Was this deliberate?

It's not a elevator action like the others, it's not called during
request handling, only for shutdown. So the different naming is actually
ok, it shows it's a different type of operation.

--
Jens Axboe