
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
