Subject: [PATCH 1/3][UNIX] Make unix_tot_inflight counter non-atomic
Posted by Pavel Emelianov on Wed, 07 Nov 2007 13:52:36 GMT
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This counter is _always_ modified under the unix_gc_lock spinlock,
so its atomicity can be provided w/o additional efforts.

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

```
diff --git a/include/net/af_unix.h b/include/net/af_unix.h
index 0864a77..a1c805d 100644
--- a/include/net/af_unix.h
+++ b/include/net/af_unix.h
@@ -12,7 +12,7 @@ extern void unix_gc(void);

 #define UNIX_HASH_SIZE 256

-extern atomic_t unix_tot_inflight;
+extern unsigned int unix_tot_inflight;

 struct unix_address {
  atomic_t refcnt;
diff --git a/net/unix/af_unix.c b/net/unix/af_unix.c
index 515e7a6..ab9048a 100644
--- a/net/unix/af_unix.c
+++ b/net/unix/af_unix.c
@@ -457,7 +457,7 @@ static int unix_release_sock (struct sock *sk, int embrion)
   *   What the above comment does talk about? --ANK(980817)
   */

- if (atomic_read(&unix_tot_inflight))
+ if (unix_tot_inflight)
   unix_gc();  /* Garbage collect fds */

  return 0;
diff --git a/net/unix/garbage.c b/net/unix/garbage.c
index 406b643..399717e 100644
--- a/net/unix/garbage.c
+++ b/net/unix/garbage.c
@@ -92,7 +92,7 @@ static LIST_HEAD(gc_inflight_list);
 static LIST_HEAD(gc_candidates);
 static DEFINE_SPINLOCK(unix_gc_lock);

-atomic_t unix_tot_inflight = ATOMIC_INIT(0);
+unsigned int unix_tot_inflight;
```

```
 static struct sock *unix_get_socket(struct file *filp)
@@ -133,7 +133,7 @@ void unix_inflight(struct file *fp)
   } else {
    BUG_ON(list_empty(&u->link));
   }
-  atomic_inc(&unix_tot_inflight);
+  unix_tot_inflight++;
   spin_unlock(&unix_gc_lock);
  }
 }
@@ -147,7 +147,7 @@ void unix_notinflight(struct file *fp)
   BUG_ON(list_empty(&u->link));
   if (atomic_dec_and_test(&u->inflight))
    list_del_init(&u->link);
-  atomic_dec(&unix_tot_inflight);
+  unix_tot_inflight--;
   spin_unlock(&unix_gc_lock);
  }
 }
--
1.5.3.4
```

Subject: Re: [PATCH 1/3][UNIX] Make unix_tot_inflight counter non-atomic
Posted by davem on Sun, 11 Nov 2007 06:06:10 GMT
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From: Pavel Emelyanov <xemul@openvz.org>
Date: Wed, 07 Nov 2007 16:52:36 +0300

> This counter is _always_ modified under the unix_gc_lock spinlock,
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>
> Signed-off-by: Pavel Emelyanov <xemul@openvz.org>

Applied.
