

---

Subject: [PATCH 3/4][cryo]: Test 4: Non-consecutive pipe fds  
Posted by [Sukadev Bhattiprolu](#) on Tue, 24 Jun 2008 03:34:12 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

>From c7276c8cb59247faa13d42a1b871c853a80d80d1 Mon Sep 17 00:00:00 2001  
From: Sukadev Bhattiprolu <sukadev@linux.vnet.ibm.com>  
Date: Sun, 22 Jun 2008 22:43:01 -0700  
Subject: [PATCH] Test4: Non-consecutive pipe fds

---  
tests/pipe.c | 76 +++-----  
1 files changed, 66 insertions(+), 10 deletions(-)

diff --git a/tests/pipe.c b/tests/pipe.c  
index c81ac2a..5b04f46 100644

--- a/tests/pipe.c

+++ b/tests/pipe.c

@@ -5,6 +5,7 @@

#include <stdlib.h>

#include <string.h>

#include <errno.h>

+#include <sys/stat.h>

#define min(a, b) ((a) < (b) ? (a) : (b))

static char \*temp\_file;

@@ -20,7 +21,7 @@ char \*test\_descriptions[] = {  
 "Test with all-fds in use for pipes",  
};

-static int last\_num = 3;

+static int last\_num = 4;

usage(char \*argv[])

{  
 int i;

@@ -84,13 +85,50 @@ int test2()

}

}

-int read\_write\_pipe()

+

+reset\_pipe\_fds(int \*tmpfds, int \*testfds, int close\_unused)

+{

+ struct stat statbuf;

+ int rc;

+

+ if (fstat(testfds[0], &statbuf) == 0) {

+ printf("fd %d is in use...\n", testfds[0]);

+ exit(1);



```

}
- printf("fds[0] %d, fds[1] %d\n", fds[0], fds[1]);

- if (fcntl(fds[0], F_SETFL, O_NONBLOCK) < 0) {
+ if (testfdsp) {
+ reset_pipe_fds(tmpfds, testfdsp, close_unused);
+ read_fd = testfdsp[0];
+ write_fd = testfdsp[1];
+ } else {
+ read_fd = tmpfds[0];
+ write_fd = tmpfds[1];
+ }
+
+ printf("read_fd %d, write_fd %d\n", read_fd, write_fd);
+
+ if (fcntl(read_fd, F_SETFL, O_NONBLOCK) < 0) {
+ perror("fcntl()");
+ exit(1);
+ }
@@ -118,7 +166,7 @@ int read_write_pipe()
sleep(1);
if (i%2 == 0) {
c = errno = 0;
- rc = read(fds[0], rbufp, 3);
+ rc = read(read_fd, rbufp, 3);

if (rc < 0)
perror("read() failed");
@@ -132,7 +180,7 @@ int read_write_pipe()
continue;

errno = 0;
- rc = write(fds[1], wbufp, min(3, strlen(wbufp)));
+ rc = write(write_fd, wbufp, min(3, strlen(wbufp)));
if (rc < 0) {
perror("write() to pipe");
} else {
@@ -156,7 +204,14 @@ int read_write_pipe()

static void test3()
{
- read_write_pipe();
+ read_write_pipe(NULL, 1);
+}
+
+static void test4()
+{
+ int tmpfds[2] = { 172, 101 };

```

```
+
+ read_write_pipe(tmpfds, 1);
+
int
@@ -182,6 +237,7 @@ main(int argc, char *argv[])
    case 1: test1(); break;
    case 2: test2(); break;
    case 3: test3(); break;
+ case 4: test4(); break;
    default:
        printf("Unsupported test case %d\n", tc_num);
        usage(argv);
--
1.5.2.5
```

---

Containers mailing list  
Containers@lists.linux-foundation.org  
<https://lists.linux-foundation.org/mailman/listinfo/containers>

---