
Subject: [RFC][PATCH][cryo] Read/print contents of fifo
Posted by [Sukadev Bhattiprolu](#) on Tue, 17 Jun 2008 21:30:40 GMT
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>From 0f5b3ea20238e0704a71252a3d495ca0db61e1dc Mon Sep 17 00:00:00 2001
From: Sukadev Bhattiprolu <sukadev@linux.vnet.ibm.com>
Date: Sat, 14 Jun 2008 11:45:00 -0700
Subject: [RFC][PATCH] Read/print contents of fifo.

To test that checkpoint/restart of pipes is working, read one byte at a time from the pipe and write to stdout.

After checkpoint, both the checkpointed application and the restarted application should continue reading from the checkpoint.

The '-e' option to the program, tests with an empty pipe.

Signed-off-by: Sukadev Bhattiprolu <sukadev@us.ibm.com>

tests/pipe.c | 32 ++++++-----
1 files changed, 28 insertions(+), 4 deletions(-)

diff --git a/tests/pipe.c b/tests/pipe.c

index cc3cdfd..0812cb3 100644

--- a/tests/pipe.c

+++ b/tests/pipe.c

@@ -3,25 +3,49 @@

#include <unistd.h>

#include <stdlib.h>

#include <string.h>

+#include <errno.h>

+#include <sys/fcntl.h>

-int main()

+int main(int argc, char *argv[])

{

int i = 0;

+ int rc;

int fds[2];

+ int c;

+ int empty;

char *buf = "abcdefghijklmnopqrstuvwxyz";

+ /*

+ * -e: test with an empty pipe

+ */

+ empty = 0;

+ if (argc > 1 && strcmp(argv[1], "-e") == 0)

```

+ empty = 1;
+
+ if (pipe(fds) < 0) {
+     perror("pipe()");
+     exit(1);
+ }

- write(fds[1], buf, strlen(buf));
+ if (!empty)
+ write(fds[1], buf, strlen(buf));

+ if (fcntl(fds[0], F_SETFL, O_NONBLOCK) < 0) {
+     perror("fcntl()");
+     exit(1);
+ }
+ printf("Running as %d\n", getpid());
+ while (i<100) {
+     sleep(1);
- if (i%5 == 0)
-     printf("i is %d (pid %d)\n", i, getpid());
+ if (i%5 == 0) {
+     c = errno = 0;
+     rc = read(fds[0], &c, 1);
+     if (rc != 1) {
+         perror("read() failed");
+     }
+     printf("i is %d (pid %d), c is %c\n", i, getpid(), c);
+ }
+ }
+     i++;
+ }
+ }
--
1.5.2.5

```

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