Subject: Re: Userspace checkpoint/restart hack: cryo Posted by Cedric Le Goater on Mon, 28 Apr 2008 09:47:09 GMT

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```
Dave Hansen wrote:
```

- > A guy named Marc Vertes wrote this as a little demonstration of
- > checkpoint/restart. I've been using it to experiment with
- > checkpoint/restart. I thought it might be of some use as we move
- > subsystems to being helped by the kernel to checkpoint and restart.

>

- > It's ptrace-based, and stuck on i386 for now. It can probably be ported
- > elsewhere without too much trouble. It doesn't support *anything
- > fancy like multuiple tasks :). It has the advantage of being very
- > feature-bare, and I think it is pretty easy to hack on. Whatever c/r
- > support we add to the kernel could easily be added on and tested.

>

> http://userweb.kernel.org/~daveh/cryo/cryo-001.tar.gz

>

- > Usage:
- > cr -p `pidof task` > checkpoint.cryo
- > cr -r < checkpoint.cryo

>

> If anyone else has something simpler or easier to hack on, I'm all ears.

Indeed. It looks simple enough.

do you have some kernel requirement? I run Fedora 8

Here's my first try on a program calculating decimal of PI:

```
$ ./cr -p `pidof pi1` > pi1.cryo
attaching to pid: 11082
[11087 cr.c:243 getfdinfo()] n : 0
WARNING (sci.c:242) unexpected signal for 11082: 11
[11087 sci.c:228 ptrace_waitsyscall()] WTERMSIG(status) : 11
ERROR (sci.c:383) ptrace_getregs(11082, 0xbfe4a3d0) errno=3: No such process ./cr[0x8051f10]
./cr[0x8049ce9]
./cr[0x804b7d2]
./cr[0x804f75b]
***STOP***
```

other terminal:

```
$ pi1 20000
pi1 - 20000 digits, 78.1 kbytes
Segmentation fault (core dumped)
```

Thanks,

C.

Signed-off-by: Cedric Le Goater <clg@fr.ibm.com>
--- Makefile~ 2008-04-25 19:05:57.000000000 +0200
+++ Makefile 2008-04-28 09:02:50.000000000 +0200
@ @ -7,6 +7,3 @ @ all : \$(BIN) \$(MAN1)

#cr: cr.o utils.o list_hash.o ptrace_linux_x86.o cr: cr.o utils.o list_hash.o sci.o injlib.o

-include ../version.mk

-include ../c.mk

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