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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