Subject: [IA64] unwind did not work for processes born with CLONE_STOPPED Posted by dev on Mon, 19 Mar 2007 10:50:21 GMT

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[IA64] unwind did not work for processes born with CLONE_STOPPED

Minor problem for mainstream. Big problem for CPT, because all the stopped/traced processes are born in this state, hence they cannot be checkpointed again due to failing unwind.

The problem was identified as assumption in kernel unwind library that top level frame is different of syscall frame. It is the case unless process was born with CLONE_STOPPED.

```
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Signed-Off-By: Kirill Korotaev <dev@sw.ru>
--- a/arch/ia64/kernel/unwind.c
+++ b/arch/ia64/kernel/unwind.c
@ @ -60,6 +60,7 @ @ #ifdef UNW DEBUG
# define UNW DEBUG ON(n) unw debug level >= n
  /* Do not code a printk level, not all debug lines end in newline */
# define UNW_DPRINT(n, ...) if (UNW_DEBUG_ON(n)) printk(__VA_ARGS__)
+# undef inline
# define inline
#else /* !UNW_DEBUG */
# define UNW DEBUG ON(n) 0
@ @ -1943,9 +1944,9 @ @ EXPORT SYMBOL(unw unwind);
int
unw unwind to user (struct unw frame info *info)
- unsigned long ip, sp, pr = 0;
+ unsigned long ip, sp, pr = info->pr;
- while (unw unwind(info) >= 0) {
+ do {
 unw get sp(info, &sp);
 if ((long)((unsigned long)info->task + IA64_STK_OFFSET - sp)
    < IA64 PT REGS SIZE) {
@@ -1963,7 +1964,7 @@ unw unwind to user (struct unw frame inf
    _FUNCTION__, ip);
  return -1;
 }
+ } while (unw_unwind(info) >= 0);
 unw get ip(info, &ip);
 UNW DPRINT(0, "unwind.%s: failed to unwind to user-level (ip=0x%lx)\n",
```

FUNCTION	, ip)	١
	, 'P	,

Subject: Re: [IA64] unwind did not work for processes born with CLONE_STOPPED Posted by Christoph Hellwig on Mon, 19 Mar 2007 12:34:35 GMT View Forum Message <> Reply to Message

On Mon, Mar 19, 2007 at 02:04:20PM +0300, Kirill Korotaev wrote:

- > [IA64] unwind did not work for processes born with CLONE_STOPPED
- >
- > Minor problem for mainstream. Big problem for CPT,

What is CPT?

Subject: Re: [IA64] unwind did not work for processes born with CLONE_STOPPED Posted by dev on Mon, 19 Mar 2007 12:51:28 GMT

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Christoph Hellwig wrote:

> On Mon, Mar 19, 2007 at 02:04:20PM +0300, Kirill Korotaev wrote:

>

>>[IA64] unwind did not work for processes born with CLONE_STOPPED

>>

>>Minor problem for mainstream. Big problem for CPT,

>

> What is CPT?

It is checkpointing/restore feature from OpenVZ.

Sorry for confusion in the comment.

Kirill