
Subject: LTP syscall failures

Posted by [Christian Kaiser2](#) on Mon, 21 May 2007 07:47:31 GMT

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Hi,

I did some testing with the LTP Regression Test Suite (<http://ltp.sourceforge.net>) inside a VE the last days. When I enable all capabilities except "setpcap" I get one warning and three failures. When I run the tests native (in VE0) I get no errors. I tested it with several kernels including the latest 2.6.18 and 2.6.20 from the git repository, all with the same results.

I run the syscall test suite of ltp-20070430 as root with the command:
./runltp -p -q -f syscalls -l `date +%Y-%m-%d_%H-%M-%S`

Failed tests: syslog12, ustat01, ustat02

Output:

```
    syslog12
        syslog system call: read and/or clear kernel message ring
            buffer; set console_loglevel

        syslog12  5 FAIL : syslog() returned unexpected
results for
            console level less than 0 ; returned 0
(expected -1), errno 0 (expected 22)
        syslog12  6 FAIL : syslog() returned unexpected
results for console level
            greater than 8 ; returned 0 (expected -1),
errno 0 (expected 22)

    ustat0[1-2]
        ustat system call: get filesystem statistics

        ustat01  1 FAIL : ustat(2) failed and set the errno to
13
            : Permission denied
        ustat02  1 PASS : ustat(2) expected failure; Got
errno - EINVAL :
            Invalid parameter
        ustat02  2 FAIL : ustat(2) failed to produce expected
error; 14, errno:
            EFAULT and got 13
```

As you can see the syslog12 and ustat02 tests fail because they return other error values than expected. The ustat01 test fails because of insufficient permissions.

Is there someone out who wants to confirm or to comment why these System Call Tests fail?

Christian Kaiser

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mail: ckaiser2@de.ibm.com

IBM Deutschland Entwicklung GmbH
Vorsitzender des Aufsichtsrats: Johann Weihen

Registergericht: Amtsgericht Stuttgart, HRB 243294

Subject: Re: LTP syscall failures
Posted by [Alexey Dobriyan](#) on Mon, 21 May 2007 09:14:09 GMT
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On Mon, May 21, 2007 at 09:47:31AM +0200, Christian Kaiser2 wrote:
> I did some testing with the LTP Regression Test Suite
> (<http://ltp.sourceforge.net>) inside a VE the last days. When I enable all
> capabilities except "setpcap" I get one warning and three failures. When I
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> syslog12 5 FAIL : syslog() returned unexpected
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> ustat02 2 FAIL : ustat(2) failed to produce expected
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>
> Is there someone out who wants to confirm or to comment why these System
> Call Tests fail?

I've reporoduces ustat unexpected EACCES problem and filed report
at http://bugzilla.openvz.org/show_bug.cgi?id=584

Subject: Re: LTP syscall failures
Posted by [gblond](#) on Wed, 23 May 2007 10:21:41 GMT
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1) Fail with ustat() is a openvz bug and it will be fixed in the near future.
2) Fail with syslog() is a normal behavior, but it can be modified specially
for LTP.

>From: Christian Kaiser2 <CKAISER2@de.ibm.com>
>To: devel@openvz.org
>Message-ID:
><OFA30B9023.1D7CA759-ONC12572E2.0029ABDB-C12572E2.002AE3A1@de.ibm.com>
>Date: Mon, 21 May 2007 09:47:31 +0200
>Subject: [Devel] LTP syscall failures
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>

>Christian Kaiser

--

Vitaliy Gusev

Subject: Re: LTP syscall failures

Posted by [Christian Kaiser2](#) on Wed, 23 May 2007 11:51:24 GMT

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Vitaliy Gusev <vgusev@openvz.org> wrote on 05/23/2007 12:21:41 PM:

> 1) Fail with ustat() is a openvz bug and it will be fixed in the near future.

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But how I mentioned before, the syslog12 test does not fail on my native machine. So what do you mean exactly by "normal behaviour"?

>

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> >To: devel@openvz.org

> >Message-ID:

> ><OFA30B9023.1D7CA759-ONC12572E2.0029ABDB-C12572E2.002AE3A1@de.ibm.com>

> >Date: Mon, 21 May 2007 09:47:31 +0200

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```

> >Christian Kaiser

>

> --
>
> Vitaliy Gusev
>

Christian Kaiser
--
IBM Deutschland Entwicklung GmbH
Open Systems Firmware Development
mail: ckaiser2@de.ibm.com

IBM Deutschland Entwicklung GmbH
Vorsitzender des Aufsichtsrats: Martin Jetter

Subject: Re: LTP syscall failures
Posted by [gblond](#) on Wed, 23 May 2007 14:20:09 GMT
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I meant that if program in VE calls syscall(type, buf, len); with type==8 (set log level) then kernel doesn't permit to do it with no error return.

> Vitaliy Gusev <vgusev@openvz.org> wrote on 05/23/2007 12:21:41 PM:

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Vitaliy Gusev,
