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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 capabilites 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 setthe 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 unsufficient 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

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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:

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> (<http://ltp.sourceforge.net>) inside a VE the last days. When I enable all  
> capabilites except "setpcap" I get one warning and three failures. When I  
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>             ustat02  1 PASS : ustat(2) expected failure; Got
> errno - EINVAL :
>                 Invalid parameter
>             ustat02  2 FAIL : ustat(2) failed to produce expected
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> As you can see the syslog12 and ustat02 tests fail because they return
> other error values than expected. The ustat01 test fails because of
> unsufficient permissions.
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> Is there someone out who wants to confirm or to comment why these System
> Call Tests fail?
```

I've reproduced ustat unexpected EACCES problem and filed report  
at [http://bugzilla.openvz.org/show\\_bug.cgi?id=584](http://bugzilla.openvz.org/show_bug.cgi?id=584)

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**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 an 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](mailto: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.  
> 2) Fail with syslog() is a normal behavior, but it can be modified specially  
> for LTP.  
>

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

>  
>>From: Christian Kaiser2 <[CKAISER2@de.ibm.com](mailto:CKAISER2@de.ibm.com)>  
>>To: [devel@openvz.org](mailto:devel@openvz.org)  
>>Message-ID:  
>><[OFA30B9023.1D7CA759-ONC12572E2.0029ABDB-C12572E2.002AE3A1@de.ibm.com](mailto: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

--  
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IBM Deutschland Entwicklung GmbH  
Vorsitzender des Aufsichtsrats: Martin Jetter

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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](mailto:vgusev@openvz.org)> wrote on 05/23/2007 12:21:41 PM:

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> IBM Deutschland Entwicklung GmbH

> Open Systems Firmware Development

> mail: [ckaiser2@de.ibm.com](mailto:ckaiser2@de.ibm.com)

>

> IBM Deutschland Entwicklung GmbH

> Vorsitzender des Aufsichtsrats: Martin Jetter

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--

Vitaliy Gusev,

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