

openQA Tests - action #63610

[kernel][ltp][spvm] - test fails in pkey01 on spvm

2020-02-19 13:40 - pcervinka

Status:	Resolved	Start date:	2020-02-19
Priority:	High	Due date:	
Assignee:	pcervinka	% Done:	0%
Category:	Bugs in existing tests	Estimated time:	0.00 hour
Target version:	QE Kernel Done		
Difficulty:			

Description

Observation

openQA test in scenario sle-15-SP2-Online-ppc64le-ltp_syscalls_spvm@ppc64le-spvm fails in [pkey01](#)

Test suite description

Maintainer: pcervinka, pvorel

Reproducible

Fails since (at least) Build [139.1](#)

Expected result

Last good: (unknown) (or more recent)

Further details

Always latest result in this scenario: [latest](#)

Summary:

passed 0

failed 0

skipped 0

warnings 0

TEST pkey01 COMPLETE >>> 2

kQ8Ut-0-

2020-02-14T11:16:10.473 CET] [debug] ||| starting pkey01 tests/kernel/run_ltp.pm

[2020-02-14T11:16:10.480 CET] [debug] /var/lib/openqa/cache/openqa.suse.de/tests/sle/tests/kernel/run_ltp.pm:309 called testapi::type_string

[2020-02-14T11:16:10.480 CET] [debug] <<< testapi::type_string(string="(pkey01; echo \"### TEST pkey01 COMPLETE >>> \\${?}\" | tee /dev/sshserial\n", max_interval=250, wait_screen_changes=0, wait_still_screen=0, timeout=30, similarity_level=47)

Summary:

passed 0

failed 0

skipped 0

warnings 0

TEST pkey01 COMPLETE >>> 2

[2020-02-14T11:16:13.260 CET] [debug] /var/lib/openqa/cache/openqa.suse.de/tests/sle/tests/kernel/run_ltp.pm:311 called testapi::wait_serial

[2020-02-14T11:16:13.260 CET] [debug] <<< testapi::wait_serial(no_regex=0, regexp=qr/### TEST pkey01 COMPLETE >>> \d+/u,

```
quiet=undef, timeout=900, expect_not_found=0, buffer_size=undef, record_output=1)
[2020-02-14T11:16:14.379 CET] [debug] >>> testapi::wait_serial: (?^### TEST pkey01 COMPLETE >>> \d+): ok
[2020-02-14T11:16:14.380 CET] [debug] /var/lib/openqa/cache/openqa.suse.de/tests/sle/tests/kernel/run_ltp.pm:337 called
testapi::script_run
[2020-02-14T11:16:14.380 CET] [debug] <<< testapi::script_run(cmd="vmstat -w", timeout=undef, quiet=undef, output="")
[2020-02-14T11:16:14.380 CET] [debug] /var/lib/openqa/cache/openqa.suse.de/tests/sle/tests/kernel/run_ltp.pm:337 called
testapi::script_run
[2020-02-14T11:16:14.380 CET] [debug] <<< testapi::type_string(string="vmstat -w", max_interval=250, wait_screen_changes=0,
wait_still_screen=0, timeout=30, similarity_level=47)
[2020-02-14T11:16:14.684 CET] [debug] /var/lib/openqa/cache/openqa.suse.de/tests/sle/tests/kernel/run_ltp.pm:337 called
testapi::script_run
[2020-02-14T11:16:14.684 CET] [debug] <<< testapi::type_string(string="; echo kQ8Ut-!$?- > /dev/sshserial\n", max_interval=250,
wait_screen_changes=0, wait_still_screen=0, timeout=30, similarity_level=47)
kQ8Ut-0-
[2020-02-14T11:16:15.914 CET] [debug] /var/lib/openqa/cache/openqa.suse.de/tests/sle/tests/kernel/run_ltp.pm:337 called
testapi::script_run
[2020-02-14T11:16:15.915 CET] [debug] <<< testapi::wait_serial(no_regex=0, regexp=qr/kQ8Ut-\d+\/, quiet=undef, timeout=30,
expect_not_found=0, buffer_size=undef, record_output=undef)
[2020-02-14T11:16:17.028 CET] [debug] >>> testapi::wait_serial: (?^kQ8Ut-\d+): ok
[2020-02-14T11:16:17.037 CET] [debug] ||| finished pkey01 kernel at 2020-02-14 10:16:17 (7 s)
```

pkey01 test basically does nothing in 6 minutes with no output.

Manually tested on vugava-3 and it works fine, so it is not a bug.

Related issues:

Related to openQA Tests - action #63943: [kernel][ltp] test fails in pkey01 -...	Resolved	2020-02-28
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History

#1 - 2020-02-20 07:53 - pcervinka

Old working one: <https://openqa.suse.de/tests/3881063#step/pkey01/1>

#2 - 2020-02-21 08:28 - pcervinka

- Status changed from New to In Progress
- Priority changed from Normal to High
- Target version changed from 454 to 445

#3 - 2020-02-21 08:29 - pcervinka

Looks like hugepages are not available.

You can specify it with option -z

```
COMMAND: /opt/ltp/bin/ltp-pan -e -S -a 8690 -n 8690 -p -f /tmp/ltp-e6swym63uL/alltests -l
/opt/ltp/results/LTP_RUN_ON-2020_02_21-03h_13m_21s.log -C /opt/ltp/output/LTP_RUN_ON-2020_02_21-03h_13m_21s.failed -T
/opt/ltp/output/LTP_RUN_ON-2020_02_21-03h_13m_21s.tconf
```

INFO: Restricted to pkey

LOG File: /opt/ltp/results/LTP_RUN_ON-2020_02_21-03h_13m_21s.log

FAILED COMMAND File: /opt/ltp/output/LTP_RUN_ON-2020_02_21-03h_13m_21s.failed

TCONF COMMAND File: /opt/ltp/output/LTP_RUN_ON-2020_02_21-03h_13m_21s.tconf

Running tests.....

<<<>

tag=pkey01 stime=1582272807

cmdline="pkey01"

contacts=""

analysis=exit

<<<>

tst_test.c:1217: INFO: Timeout per run is 0h 05m 00s

incrementing stop

pkey01.c:69: BROK: nr_hugepages = 0, but expect 1

#4 - 2020-02-21 08:36 - pcervinka

```
grenache-2:/boot # ls /sys/kernel/mm/hugepages/
```

```
hugepages-16384kB hugepages-16777216kB
```

```
grenache-2:/boot # ls /proc/sys/vm/nr_hugepages
```

```
/proc/sys/vm/nr_hugepages
```

```
grenache-2:/boot # cat /proc/sys/vm/nr_hugepages
```

```
0
```

#5 - 2020-02-21 08:48 - pcervinka

Few minutes later on grenache and started to work...
pkey01.c:187: PASS: Child ended by SIGSEGV as expected
pkey01.c:191: INFO: Remove PKEY_DISABLE_WRITE from the buffer
pkey01.c:205: PASS: Read & Write buffer success, buffer[0] = 97

Summary:

passed 96

failed 0

skipped 0

warnings 0

<<>>

initiation_status="ok"

duration=0 termination_type=exited termination_id=0 corefile=no

cutime=0 cstime=2

<<>>

INFO: ltp-pan reported all tests PASS

LTP Version: 20200120

grenache-2:/opt/ltp #

grenache-2:/opt/ltp #

grenache-2:/opt/ltp # cat /proc/sys/vm/nr_hugepages

0

grenache-2:/opt/ltp # ls /proc/sys/vm/nr_hugepages

/proc/sys/vm/nr_hugepages

grenache-2:/opt/ltp #

#6 - 2020-02-21 08:51 - pcervinka

And another run fails...

<<>>

tst_test.c:1217: INFO: Timeout per run is 0h 05m 00s

incrementing stop

pkey01.c:69: BROK: nr_hugepages = 0, but expect 1

#7 - 2020-02-21 11:53 - pcervinka

It randomly fails (on PowerVM only) in pkey01.c:

```
64     int val;
65     SAFE_FILE_PRINTF (PATH_VM_NRHPS, "%d", 1);
66     SAFE_FILE_SCANF (PATH_VM_NRHPS, "%d", &val);
67     if (val != 1)
68         tst_brk (TBROK, "nr_hugepages = %d, but expect %d",
69                 val, 1);
```

Line 65 writes 1 to /proc/sys/vm/nr_hugepages and line 66 reads from /proc/sys/vm/nr_hugepages.
If content of /proc/sys/vm/nr_hugepages is not 1, it fails.

#8 - 2020-02-21 12:07 - pcervinka

- Status changed from In Progress to Feedback

Should be fixed in <https://patchwork.ozlabs.org/project/ltp/list/?series=157441>.

Patch will be merged soon to LTP, so let's wait for next results.

#9 - 2020-02-21 12:23 - pvorel

Fix merged. I tested it on pinotage.arch.suse.de, but it worked there before, so we need to wait for next build.

#10 - 2020-02-21 12:41 - pcervinka

Pinotage is not spvm/PowerVM system, and vugava-* in orthos is Power9, i was able to randomly reproduce it only on osd grenache worker, which is Power8 spvm backend.

#11 - 2020-02-26 07:57 - pcervinka

- Status changed from Feedback to Resolved

#12 - 2020-02-27 10:02 - metan

- Target version changed from 445 to 457

#13 - 2020-02-28 06:54 - pcervinka

- Related to action #63943: [kernel][ltp] test fails in pkey01 - Setup hugepages before test execution added

#14 - 2020-10-23 13:42 - pcervinka

- Target version changed from 457 to QE Kernel Done