

openQA Tests - action #69432

test fails with no module details after boot_ltp, broken run-time scheduling?

2020-07-29 08:39 - okurz

Status:	Resolved	Start date:	2020-07-29
Priority:	Urgent	Due date:	
Assignee:	okurz	% Done:	0%
Category:	Bugs in existing tests	Estimated time:	0.00 hour
Target version:	Ready		
Difficulty:			
Description			
Observation			
openQA test in scenario opensuse-Tumbleweed-DVD-x86_64-ltp_aio_stress_part1@64bit fails after boot_ltp with no details after that. mdoucha suspects			
<pre><okurz> do you think the os-autoinst change "Avoid updating last_good if there is no possible user of it" can explain the ltp failures? <mdoucha> Possible but unlikely. KLP tests create snapshot as well but work fine. https://openqa.suse.de/tests/4500234 <mdoucha> This looks like broken run-time scheduling. Modules added after VM start are ignored by os-autoinst <okurz> o3 shows the same problems since 5 days, nobody seems to have realized that: https://openqa.opensuse.org/tests/1340472 <mdoucha> good, that narrows it down to 2 or 3 days, not a full week</pre>			
Reproducible			
Fails since Build 20200721 (current job)			
Expected result			
Last good: 20200720			
Further details			
Always latest result in this scenario: latest			
Related issues:			
Related to openQA Project - action #52673: os-autoinst: Do not save "lastgood...		Feedback	2019-06-06

History

#1 - 2020-07-29 08:48 - okurz

Comparing os-autoinst versions I see:

```
$ git log1 --no-merges dc25ddd8..7963b3d4
ef154996 Avoid updating last_good if there is no possible user of it
98de5809 Simplify runalltests in autotest.pm
e6593f21 Simplify passing test list in tools/invoke-tests
ce0023a1 Fix link to architecture documentation
1eaf6e49 Improve build instructions in README, mainly to cover CMake
990c8f62 CMake: Tweak test execution
d4ffa525 Improve argument parsing and source directory handling in tools/invoke-tests
a32956f9 CMake: Add targets for computing test coverage
54ace987 CMake: Add targets for invoking tests
092821da CMake: Add target for updating dependencies
cf2c737f (okurz/feature/base_os) docker: Bump base OS version to Leap 15.2
```

I consider as likely candidates:

```
ef154996 Avoid updating last_good if there is no possible user of it
98de5809 Simplify runalltests in autotest.pm
e6593f21 Simplify passing test list in tools/invoke-tests
```

for a test scenario when we for example partially revert we could pick any of these failing ltp test cases which are also fast to run, e.g.
https://openqa.suse.de/tests/latest?arch=x86_64&distri=sle&flavor=Server-DVD-Incidents-Kernel&machine=64bit&test=ltp_input&version=12-SP4

At first for reproduction:

```
openqa-clone-job --within-instance https://openqa.suse.de --skip-chained-deps 4500252 WORKER_CLASS=openqaworker5 TEST=okurz_poo69432_ltp_input _GROUP=0 BUILD=X
```

Created job #4500617: sle-12-SP4-Server-DVD-Incidents-Kernel-x86_64-Build:15909:kernel-ec2-ltp_input@64bit -> <https://openqa.suse.de/t4500617>

Created revert <https://github.com/os-autoinst/os-autoinst/pull/1490> and applied hotfix on openqaworker5:

```
curl -s https://raw.githubusercontent.com/os-autoinst/os-autoinst/revert-1483-snapoptim/autotest.pm > /usr/lib/os-autoinst/autotest.pm
```

triggered new test, passed. Hotpatched all osd workers with salt on osd:

```
sudo salt -l error --state-output=changes -C 'G@roles:worker' cmd.run 'curl -s https://raw.githubusercontent.com/os-autoinst/os-autoinst/revert-1483-snapoptim/autotest.pm > /usr/lib/os-autoinst/autotest.pm'
```

mdoucha will retrigger.

#2 - 2020-07-29 09:13 - MDoucha

The bug is caused specifically by this change in autotest.pm:

```
-   for my $t (@testorder) {
+   for my $testindex (0 .. $#testorder) {
+       my $t          = $testorder[$testindex];
```

If @testorder changes during VM runtime, the index sequence will not be updated and the newly added test modules will be ignored.

I recommend using ltp_math for debugging, it's the fastest LTP job that uses run-time scheduling.

#3 - 2020-07-29 10:11 - okurz

- Related to action #52673: os-autoinst: Do not save "lastgood" snapshot on last module unless img is preserved with snapshot (e.g. --no-cleanup) added

#4 - 2020-07-29 10:11 - okurz

- Status changed from In Progress to Resolved

[favogt](#) has provided his original PR with the fix in <https://github.com/os-autoinst/os-autoinst/pull/1492> . I confirmed it working fine on openqaworker5 with <https://openqa.suse.de/t4501133>

The current state on osd is ok again and also git master is fixed with the revert. The merge and verification of the changes by favogt are left for [#52673](#)