openQA Tests - action #69432

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

2020-07-29 08:39 - okurz

<table>
<thead>
<tr>
<th>Status:</th>
<th>Resolved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority:</td>
<td>Urgent</td>
</tr>
<tr>
<td>Assignee:</td>
<td>okurz</td>
</tr>
<tr>
<td>Category:</td>
<td>Bugs in existing tests</td>
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<tr>
<td>Target version:</td>
<td>Ready</td>
</tr>
<tr>
<td>Difficulty:</td>
<td></td>
</tr>
<tr>
<td>Start date:</td>
<td>2020-07-29</td>
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<tr>
<td>Due date:</td>
<td></td>
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<tr>
<td>% Done:</td>
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<tr>
<td>Estimated time:</td>
<td>0.00 hour</td>
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Description

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

<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

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
1eaf6ee4 Improved build instructions in README, mainly to cover CMake
990c8f62 CMake: Tweak test execution
d4ff0a525 Improve argument parsing and source directory handling in tools/invoke-tests
54ace987 CMake: Add targets for computing test coverage
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:

2021-05-23
Avoid updating last_good if there is no possible user of it
Simplify runalltests in autotest.pm
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 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:


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) {
   $testorder = $testorder[$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

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