

## openQA Project - action #40415

### Concurrent jobs with dependencies don't work if they are on different machines.

2018-08-29 11:44 - jlausuch

<b>Status:</b>	Resolved	<b>Start date:</b>	2018-08-29
<b>Priority:</b>	High	<b>Due date:</b>	
<b>Assignee:</b>	mitiao	<b>% Done:</b>	0%
<b>Category:</b>	Feature requests	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	Done		
<b>Difficulty:</b>			
<b>Description</b>			
<b>Reproducibility:</b>			
<p>We have 2 jobs, let's say PARENT and CHILD, where CHILD has PARALLEL_WITH=PARENT.</p> <p>I have created 2 tests that are on the same machine "64bit", qemu with some other options: <a href="http://fromm.arch.suse.de/tests/1394">http://fromm.arch.suse.de/tests/1394</a> <a href="http://fromm.arch.suse.de/tests/1395">http://fromm.arch.suse.de/tests/1395</a></p> <p>The parent job needs the child ID for the mutex command:</p> <pre>my \$children      = get_children(); my \$child_id     = (keys %\$children)[0]; ... script_run("echo Waiting for child with child_id=\$child_id"); mutex_wait("child_ready", \$child_id);</pre> <p>This is one line of the parent's output:</p> <pre>Waiting for child with child_id=1399</pre> <p>Everything OK so far. CHILD recognizes PARENT as its parent and locking api works without problems.</p> <p>Then, I have created another machine "64bit-other" with the exact same characteristics as the other one. <a href="http://fromm.arch.suse.de/admin/machines">http://fromm.arch.suse.de/admin/machines</a> And assign CHILD to "64bit-other" in the job group.</p> <p>The result is that CHILD doesn't have the parent job in the settings panel any more, and the PARENT's output is now:</p> <pre>Waiting for child with child_id=</pre> <p>Therefore, the command</p> <pre>mutex_wait("child_ready", \$child_id);</pre> <p>waits forever.</p> <p>Why having different machines? Well, for virtual jobs it doesn't make sense, but for BareMetal jobs like NFV and InfiniBand tests we are using different workers and machines: ipmi-sonic and ipmi-tails with different worker classes: 64bit-mlx_con5_sonic and 64bit-mlx_con5_tails respectively.</p>			
<b>Related issues:</b>			
Related to openQA Project - action #25892: Scheduling parallel jobs		<b>Resolved</b>	<b>2017-10-10</b>
Related to openQA Tests - action #42857: [qe-core][functional][s390x] Change ...		<b>Resolved</b>	<b>2018-10-24</b>

## History

#1 - 2018-08-30 07:31 - EDiGiacinto

- Category set to 122

That's a feature that should also consider adapting what was done for <https://progress.opensuse.org/issues/25892>

**#2 - 2018-08-30 07:32 - EDiGiacinto**

- Related to action #25892: Scheduling parallel jobs added

**#3 - 2018-09-14 13:14 - coolo**

- Target version set to Current Sprint

**#4 - 2018-09-18 14:31 - coolo**

The tricky part is finding the limits - e.g. if you schedule in one job group multiple server/client pairs on different hardware/architecture. So we'll need some kind of 'finding nearest partner' and error out if we can't clearly identify it.

**#5 - 2018-09-21 05:47 - mitiao**

- Assignee set to mitiao

**#6 - 2018-09-26 07:50 - mitiao**

- Status changed from New to In Progress

**#7 - 2018-09-29 07:35 - mitiao**

sent pr: <https://github.com/os-autoinst/openQA/pull/1813>

**#8 - 2018-10-12 12:50 - cfconrad**

What about explicitly define the machine, like:

```
START_AFTER_TEST=upload_img:64bit
```

or

```
PARALLEL_WITH=test1:%MACHINE%-foo,test2:%MACHINE%-baar
```

**#9 - 2018-10-12 13:28 - coolo**

this might work for you as you only have one architecture. But in every other scenario it means duplicating test suites because you need to hardcode machine names in test suite settings.

**#13 - 2018-11-14 02:58 - mitiao**

- Status changed from In Progress to Resolved

Resolved as PR merged.

**#14 - 2018-11-14 07:47 - okurz**

- Status changed from Resolved to In Progress

Please check [http://open.qa/docs/#\\_inter\\_machine\\_dependencies](http://open.qa/docs/#_inter_machine_dependencies), the documentation seems to be broken on "==== Example", maybe just a missing blank line?

**#15 - 2018-11-14 08:13 - mitiao**

- Status changed from In Progress to Feedback

okurz wrote:

Please check [http://open.qa/docs/#\\_inter\\_machine\\_dependencies](http://open.qa/docs/#_inter_machine_dependencies), the documentation seems to be broken on "==== Example", maybe just a missing blank line?

Thanks for check, fix in

<https://github.com/os-autoinst/openQA/pull/1859>

**#16 - 2018-11-14 11:05 - okurz**

- Status changed from Feedback to Resolved

[http://open.qa/docs/#\\_inter\\_machine\\_dependencies](http://open.qa/docs/#_inter_machine_dependencies) looks fine, ty

**#17 - 2018-11-15 03:21 - mitiao**

Sorry, another fix for the doc

<https://github.com/os-autoinst/openQA/pull/1865>

Should be fine finally.

**#18 - 2018-11-20 20:03 - okurz**

- Related to action #42857: [qe-core][functional][s390x] Change structure of s390x KVM hosts on production (o.s.d) added

**#19 - 2018-11-27 09:38 - coolo**

- Target version changed from Current Sprint to Done