

Automated Build Generator - Tasks #1990

Represent parallelism constraints of build systems

09/11/2014 05:36 PM - J. Wienke

Status:	New	Start date:	09/11/2014
Priority:	Normal	Due date:	
Assignee:	J. Moringen	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:	1.0		
Description			
Certain build systems should not be used in parallel on the same machine. This is e.g. true for maven and ros catkin. The build generator somehow needs to respect this.			

History

#1 - 09/11/2014 06:35 PM - J. Moringen

Seriously? It is not possible to execute more than one maven build in parallel on the same machine (can different users use maven in parallel on the same machine?)?

If true, this has far-reaching consequences beyond generating a restricted build-flow. Consider citookit, for example. With this restriction, we basically cannot have more than one distribution on that Jenkins instance unless we resort to some locking strategy. But what would the scope of such a lock be, in general? The whole Jenkins instance? A particular slave?

#2 - 09/11/2014 06:39 PM - J. Wienke

Jan Moringen wrote:

Seriously? It is not possible to execute more than one maven build in parallel on the same machine (can different users use maven in parallel on the same machine?)?

Normally it works but there is no guarantee that things work correctly due to the .m2/repository folder which would then be changed in parallel by several processes, which might lead to inconsistencies. Multiple users can operate in parallel since everyone has got its own cache.

If true, this has far-reaching consequences beyond generating a restricted build-flow. Consider citookit, for example. With this restriction, we basically cannot have more than one distribution on that Jenkins instance unless we resort to some locking strategy. But what would the scope of such a lock be, in general? The whole Jenkins instance? A particular slave?

Beyond the scope of one distribution this is even harder. Sure. But maybe we can first generate the build flow in a way that this is respected. The triggering of different distributions can in the first step be sequenced by timing their build correctly.

#3 - 03/02/2015 02:07 PM - J. Moringen

- Target version set to 0.5

#4 - 09/30/2016 10:44 AM - J. Moringen

- Target version changed from 0.5 to 0.8

#5 - 10/25/2016 12:32 PM - J. Moringen

- Target version changed from 0.8 to 0.9

#6 - 02/23/2017 11:34 AM - J. Moringen

- Target version changed from 0.9 to 1.0