

## Cognitive Interaction Toolkit - Feature #338

### using the toolkit installer on "slow" (<=10 MBit/s) connections - tar snapshots instead of git?

2014-11-22 09:39 - Simon Schulz

<b>Status:</b>	Closed	<b>Start date:</b>	2014-11-22
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Jan Moringen	<b>% Done:</b>	20%
<b>Category:</b>	build-generator	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>Spent time:</b>	0.00 hour
<b>Description</b>			
I am trying to set up a distribution at home over a DSL Connection. This takes forever...			
What about a policy that we use tar snapshots for all (or at least external) projects files where possible instead of git? For example opencv/morse etc take ages to download or fail due to timeouts. (it seems like the opencv git is also extremely slow right now, its syncing with <100kb/s)			
The situation how it is right now (checking out during job config, then twice during build) is not really usable to me. My solution right now is that i switched back to install the (large) projects manually instead of using the toolkit installer which i really do not want to do.			
<b>Related issues:</b>			
related to Cognitive Interaction Toolkit - Feature # 412: multiple cloning of...		<b>Resolved</b>	<b>2015-06-10</b>

## History

### #1 - 2014-11-22 09:41 - Simon Schulz

- Description updated

### #2 - 2014-11-22 11:25 - Simon Schulz

the build gen could add a timeout for git pulls. i now do this manually:

job configuration, and under git plugin section:

Click "Add"

Click "Advanced clone behaviours"  
then i set the checkout timeout to 120

### #3 - 2014-11-23 19:46 - Simon Schulz

a nice workaround:

open the project settings and replace the git url with /home/ssschulz/src/opencv  
after you checked out opencv to ~/src/opencv

### #4 - 2015-10-12 17:02 - Jan Moringen

- Category set to build-generator

- Status changed from New to In Progress

- Assignee set to Jan Moringen

- % Done changed from 0 to 20

Current progress:

- Clone operations during build have reduced from two to one (kind of generated jobs has been changed matrix project -> "normal" project)

- Incremental download of updates (i.e. git pull) has been prototypically implemented for the build-generator side and is currently undergoing testing (see #412)
- Incremental download for the Jenkins side may be possible in a similar fashion but this needs exploration

I vote against tar-archives as an additional form of distribution/retrieval because of the added complexity.

#### #5 - 2015-10-12 17:02 - Jan Moringen

- related to Feature #412: multiple cloning of gits - an idea for load reduction for servers + slow connections added

#### #6 - 2016-01-12 15:30 - Martin Wiechmann

Please consider this as an alternative:

```
git clone -b <tagName/branchName> --depth 1
```

From the git-clone manpage:

```
--branch <name>, -b <name>
```

Instead of pointing the newly created HEAD to the branch pointed to by the cloned repository's HEAD, point to <name> branch instead. In a non-bare repository, this is the branch that will be checked out. **--branch can also take tags** and detaches the HEAD at that commit in the resulting repository.

The option --depth 1 creates a shallowed copy and efficiently reduces both remote system load and transfer time.

#### #7 - 2016-04-08 15:10 - Jan Moringen

- Status changed from In Progress to Closed

Martin Wiechmann wrote:

Please consider this as an alternative:

```
[...]
```

From the git-clone manpage:

```
--branch <name>, -b <name>
```

Instead of pointing the newly created HEAD to the branch pointed to by the cloned repository's HEAD, point to <name> branch instead. In a non-bare repository, this is the branch that will be checked out. **--branch can also take tags** and detaches the HEAD at that commit in the resulting repository.

The build-generator already uses this.

The option `--depth 1` creates a shallowed copy and efficiently reduces both remote system load and transfer time.

This is a configuration option as well.