Cognitive Interaction Toolkit - Feature #413

CITK rapman integration

2015-08-07 20:29 - Florian Lier

Status: Closed Start date: 2015-08-07 **Priority:** Due date: Normal % Done: 0% Assignee: Jon Weisz Category: docker **Estimated time:** 0.00 hour Spent time: Target version: 0.00 hour

Description

This issue is mainly targeted at the integration of rapman (https://github.com/Robobench/robobench-subuser-registry) into the CITK. The aim of this task is to create docker images with X11/GPU support based on the CITK distribution tool chain.

Preliminary roadmap:

1) Let's start with the

https://opensource.cit-ec.de/projects/citk/repository/revisions/master/entry/distributions/icub-iros2015.distribution

- 2) Target system will be Ubuntu 14.04 (x64).
- 3) Install "base" packages for the CITK tool chain as explained in the tutorials section (

https://toolkit.cit-ec.uni-bielefeld.de/bootstrapping-local-jenkins-distribution-deployment).

- 4) Download the jenkins.tar.gz, extract, create user, fire up Jenkins
- 5) Clone the distribution repository
- 6) Select icub-iros2015.distribution and parse the distribution specific packages from distribution file (later this list will be aggregated from the included *.project files)
- 7) Execute job generator as explained on the replication page (https://toolkit.cit-ec.uni-bielefeld.de/node/1399)
- 8) Implement a mechanism in order to detect successful build. This can be done using the Jenkins REST API, here is a start: https://opensource.cit-ec.de/projects/citk/repository/docker/revisions/master/entry/testJob.sh
- 9) Execute the experiment already included in the distribution as explained here:

https://toolkit.cit-ec.uni-bielefeld.de/experiments/icub-ball-tracking-iros2015 (Execution part)

- 10) In order to achieve 9) X11/GPU acceleration is required
- 11) Setup a github docker repository for the CITK
- 12) Upload icub-docker image
- 13) Write a cmd line tool in order to automate this process

History

#1 - 2015-09-01 15:53 - Florian Lier

Yay! Finally the first update on this issue. I managed to install the citman (also had to fix the caching mechanism, please see latest commit, revert if I made things worse). I was also able to install a demo. I finally got stuck when running the demo:

user@user-Latitude-E4300:~/docker-cli/citk-cli\$./citman run-demo --demo=fsmt-exp-run-icub-nightly-balltracking-sim Traceback (most recent call last):

File "./citman", line 211, in <module>

c = CitManager(sys.argv[1:])

File "./citman", line 71, in __init_

self.__parse(inputs)

File "./citman", line 77, in __parse

self.subcommands[which](result_dict)

File "./citman", line 22, in __call_

self.__method(**kwargs)

File "./citman", line 206, in run demo

return self.dm.run_demo(distro, project=demo, use_system_dist=True)

File "/home/user/docker-cli/citk-cli/distribution_image_manager.py", line 467, in run_demo

cmd = self.get_run_command(project)

File "/home/user/docker-cli/citk-cli/distribution_image_manager.py", line 521, in get_run_command

cmd = self.projects.projects[project_name]['variables']['shell.command']

KeyError: 'fsmt-exp-run-icub-nightly-balltracking-sim'

Here are a few thoughts for the next hangout:

1) Make a proper setup.py for the citman

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- 2) Discuss Docker non-root usage
- 3) How to integrate the citman into CITK, i.e., deployment via recipes

#2 - 2015-09-05 22:00 - Florian Lier

Okay this time the installation went smoothly. Also the distro and demo listing is nice.

However, this happened:

~/docker/citk-cli\$./citman install-demo --demo=fsmt-exp-icub-nightly

Attempting Download

{u'errorDetail': {u'message': u'Error: image citk/icub-iros2015-trus:build-finalized not found'}, u'error': u'Error: image citk/icub-iros2015-trus:build-finalized not found'}

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Warning: Distro icub-iros2015 could not be downloaded.

#3 - 2015-09-05 23:35 - Florian Lier

Okay, the status update above is to be considered useless, since I configured my FW using 'paranoia mode'. After allowing a few ports binding to localhost, e.g, docker **sigh**. I managed to achieve this:

~/docker/citk-cli\$ sudo ./citman install-demo --demo fsmt-exp-morse-12-findhuman

Attempting Download

{u'errorDetail': {u'message': u'Error: image citk/morse-1.2-stable-trus:build-finalized not found'}, u'error': u'Error: image

citk/morse-1.2-stable-trus:build-finalized not found'}

Warning: Distro morse-1.2-STABLE could not be downloaded.

Success: Distro morse-1.2-STABLE build and demo ready.

However, running the demo resulted in this

- ~/docker/citk-cli\$./citman run-demo --demo fsmt-exp-morse-12-findhuman
- > /home/miri/docker/citk-cli/distribution_image_manager.py(574)get_run_command()
- -> logging.error('Failed to find command for project name %s'%(project_name))

#4 - 2015-09-06 00:16 - Florian Lier

Last update for today ... I just noticed that the machine has a nvidia card but uses the nouveau driver ...

#5 - 2015-09-24 22:53 - Florian Lier

- Status changed from In Progress to Closed

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