Hochschule Esslingen
University of Applied Sciences

Work Package

Server Administration itlx3304 and itlx3301

Version 2.0

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Revision History

Revision	Date	Author(s)	Description
1.0	22 August, 2015	Vikas Agrawal	created
2.0	7 September, 2015	Vikas Agrawal	sent to Friedrich
2.0	12 December, 2015	Vikas Agrawal	adding itlx3304

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Setting itlx3304

- Apache configuration
  - wwwitrt.conf
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- Jenkins configuration
- SVN configuration
- Trackplus configuration
- MySql configuration
- PWM configuration

1.1 Trackplus Configuration

To integrate Jenkins and other web applications in trackplus, we need to download portal5.0 from the trackplus website. This plugin has to be configured and urls of the webapplications needs to be written in the configuration file inside the portal5.0 directory. The plugin to be downloaded from the trackplus website has the extension .tpx.

1.2 MySql configuration

MySql is a database and needs to be configured for trackplus. First of all a database is created, but for that one needs to know the root password of MySql. The root password is kept under the folder called /root in the server. mysql -uroot -ptissi mysql -utrackp -ptissi mysql -uroot -p (password in the /root folder)

Chapter 2

Removing legacy code from SVN

2.1 Deleting and moving old SVN Repositories in itlx3301

As of August, 22015, there were seven SVN repositories excluding lab team repositories

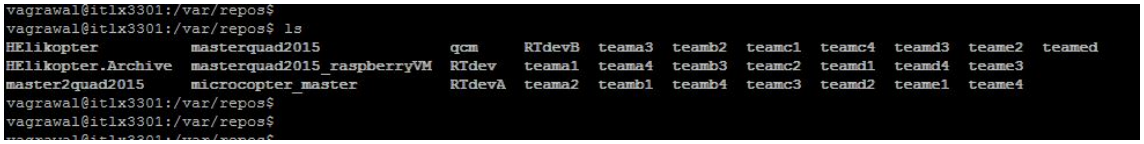

Figure 2.1: Repos before changes

1. HElikopter
2. HElikopter.Archive
3. microcopter_master
4. masterquad2015
5. masterquad2015_raspberryVM
6. master2quad2015
7. DOSEK

2.2 Moving the repositories

- **HElikopter** svn+ssh://vagrawal@itlx3301.hs-esslingen.de/var/repos/HElikopter/trunk This is the HElikopter source code on the code warrior and is maintaned by Hr. Trybek. The underlying microcontroller is the dragon board running the Freescale microcontroller. The project has the milestone REL210 as of 01.10.2014. The repositories HElikopter is merged into git repoitories kept at https://atreus.informatik.uni-tuebingen.de/agrawal/helikopter-software. However the svn repository still exists since Hr Trybek works on the repository.

- **HElikopter.Archive** svn+ssh://vagrawal@itlx3301.hs-esslingen.de/var/repos/HElikopter.Archive This is a legacy project and has two tags REL100 from 24.04.2012 and REL200 from 25.03.2013. The SVN repository HElikopter.archive is moved to the Trash folder in /var/repos/. The repositories HElikopteris merged into git repository kept at https://atreus.informatik.uni-tuebingen.de/agrawal/helikopter-software,

- **microcopter_master** svn+ssh://vagrawal@itlx3301.hs-esslingen.de/var/repos/microcopter_master The project also consists of the development of the HElikopter and consists of the matlab projects as well as the codewarrior projects. Last development in the project was in the year 2011. This SVN repository has been moved to Trash under /var/repos and the contents has been merged in https://atreus.informatik.uni-tuebingen.de/agrawal/helikopter-simulation and https://atreus.informatik.uni-tuebingen.de/agrawal/helikopter-scratch.

- **master2quad2015** svn+ssh://vagrawal@itlx3301.hs-esslingen.de/var/repos/master2quad2015 This is a masters student 2015 matlab project to make a matlab model of the HElikopter. This repository is deleted and the contents has been merged in the GIT repo https://atreus.informatik.uni-tuebingen.de/agrawal/helikopter-simulation

- **masterquad**2015 **and masterquad**2015**_raspberryVM** svn+ssh://vagrawal@itlx3301.hs-esslingen.de/var/repos/masterquad2015 This is a masters student 2015 respberry project to make a raspberry based development of the HElikopter. The project consists of the ubuntu virtual machine which is a development environment and the source files consisting of the application and low lever drivers written for the raspberry.
  The repository masterquad2015 is moved to Trash under /var/repos and the content has been moved to two GIT Repositories. https://atreus.informatik.uni-tuebingen.de/agrawal/helikopter-vm and https://atreus.informatik.uni-tuebingen.de/agrawal/helikopter-raspberry.

- **LAB Team Repositores** The lab team project repositories are moved under the folder /var/repos/LABOR.

- **DOSEK** The DOSEK repositories are moved under the folder /var/repos/DOSEK.

2.3 SVN Repositories after changes

Now there are only two SVN repositories excluding the lab team repositories

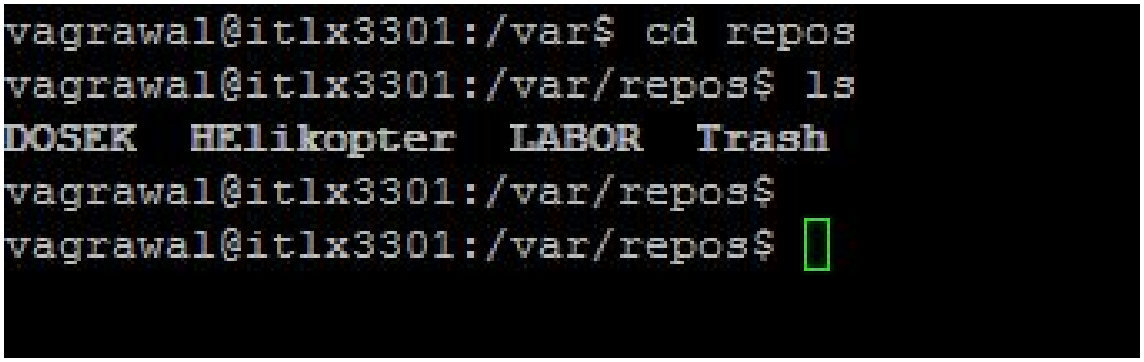

Figure 2.2: Repos after changes

1. HElikopter
2. DOSEK

2.4 Exercises

Team of Controller, Actuator and UI The students would study about the communication buses such as I2C, SPI, UART, CAN.

2.5 Slides

Estimation : The process of inferring a value of a quantity of interest from indirect, inaccurate and uncertain observations is called estimation.

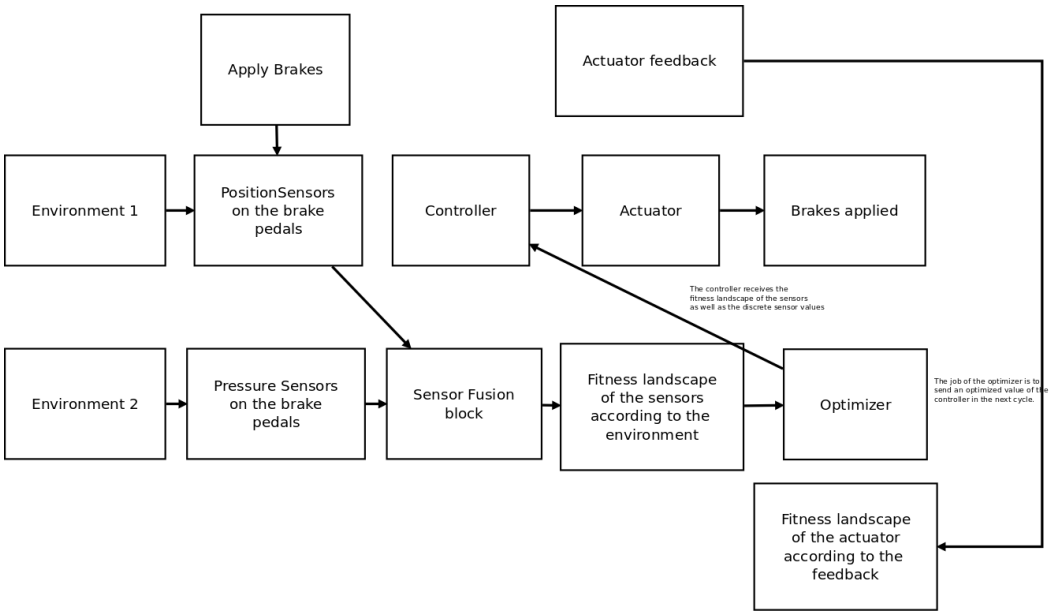

Figure 2.3: Overview

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