



Juan Rojas &lt;rojas70@gmail.com&gt;

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## Simulator

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To: Juan Rojas <rojas70@gmail.com>

Hi Juan,

I will give you the simulator.

Currently, the forceSensorPlugin does not work well.

I think that you can help me to this problem. Also, I want you to adjust the position of the parts. I will describe the usage of this simulator as follows:

1. Installation

create a user named "grxuser" on ubuntu.

extract the OpenHRP-HRP2STEP1.tgz at /home/grxuser/src directory

If it is the first time to install OpenHRP to this PC, execute installation script in the "util" directory.

2. Starting up

Go to the directory bin/unix

Execute ./GrxUI.sh

3. Replay a motion file

After executing GrxUI.sh, load the project file HRP2STEP1.xml

Press Simulation Start button (Button with triangle and a human)

Press Script Start button (Button with triangle and document)

Here Motion data can be generated from Angle.dat file. See Controller/IOServer/robot/HRP2STEP1/etc/Angle.m for how to generate the motion file.

3. Executing force sensor plugin

Compile forceSensor plugin

After executing GrxUI.sh, load the project file HRP2STEP1\_Pivot.xml

Press Simulation Start button (Button with triangle and a human)

Press Script Start button (Button with triangle and document)

Currently, I use the high gain mode in simulation. I may have to use torque control mode. I will continue to work on this problem.

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