

## Robotics Systems Types - Feature #2350

### Add MotorCurrents type

07/22/2015 08:24 PM - C. Emmerich

<b>Status:</b>	Resolved	<b>Start date:</b>	07/22/2015
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	J. Wienke	<b>% Done:</b>	100%
<b>Category:</b>	Type Proposal	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	rsb-0.13		
<b>Description</b>			
Plz add MotorCurrents type to sandbox. Thx			

#### Associated revisions

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##### Revision b706783f - 08/13/2015 02:57 PM - Sebastian Wrede

Added new type MotorCurrents to dynamics package of sandbox

fixes #2350

Signed-off-by: Johannes Wienke <[wienke@techfak.uni-bielefeld.de](mailto:wienke@techfak.uni-bielefeld.de)>

#### History

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##### #1 - 07/23/2015 10:43 AM - J. Wienke

Formally, the type looks good. But I am not sure about the chosen package. Is there any reference that motor currents are part of the dynamic model of a robot?

##### #2 - 07/23/2015 01:56 PM - C. Emmerich

Actually we were wondering too.

- From a systems point of view, this is just a status of a robot's joint such as position, temperature, etc. We didnt find a proper package for that kind of status reports.
- From a control theory point of view, motor currents can be used to estimate joint torques and end-effector forces, see e.g. [here](#), which we actually want to do. Hence, they relate to the dynamics model of a robot the same way joint torques do. That's why we put it there.

But we are open for further discussions or proposals :D

##### #3 - 07/23/2015 04:58 PM - J. Wienke

I am not sure about this. Jan, Arne, any ideas?

##### #4 - 08/13/2015 11:31 AM - J. Wienke

@Jan?

##### #5 - 08/13/2015 12:55 PM - J. Moringen

Putting the type into dynamics may be the pragmatic solution.

**#6 - 08/13/2015 01:36 PM - J. Wienke**

- Status changed from New to In Progress
- Assignee set to J. Wienke
- Target version set to rsb-0.13

**#7 - 08/13/2015 02:58 PM - Anonymous**

- Status changed from In Progress to Resolved
- % Done changed from 0 to 100

Applied in changeset commit:rst-proto|b706783fb4a8a092e71f27332a061db503d473c7.

**#8 - 08/13/2015 02:59 PM - J. Wienke**

How did you manage to become Sebastian in the git commit message? Someone should check his git settings ;)

**Files**

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0001-added-new-type-MotorCurrents-to-dynamics-package-of-.patch	1.02 KB	07/22/2015	C. Emmerich
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