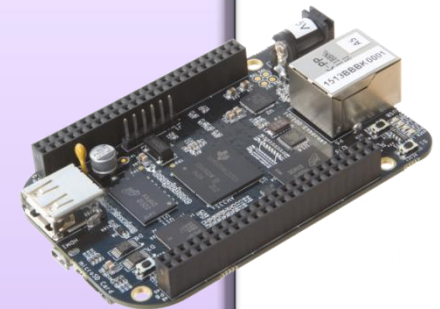


EICASLAB™ DEMO



*The Professional Software Suite
for Automatic Control Design and Forecasting*

EICASLAB Demo RT-emb
Beagle Bone at work!



Part 4: Rapid Control Prototyping
Slow Motion

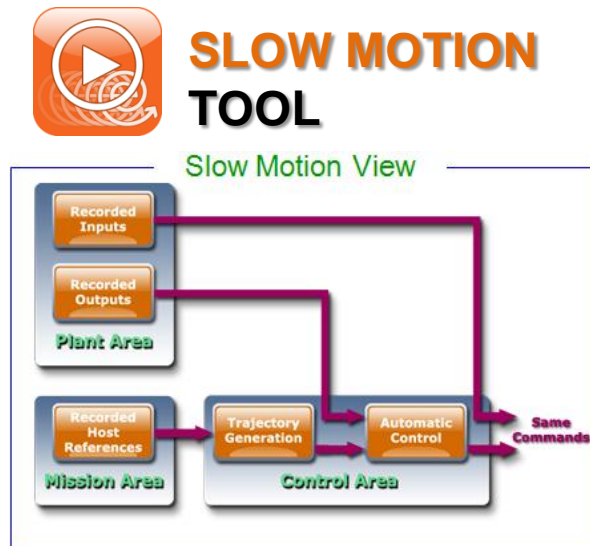
Rapid Control Prototyping

The **Rapid Control Prototyping operative mode** allows to test the control algorithm directly on the **real plant**.
It includes two operative sub-modes: **RCP On Field** and **Slow Motion**.



Slow Motion

The **Slow Motion operative sub-mode** allows an offline repetition of the trials recorded in RCP on field.



Repeat the trial as a
MOVIOLA with
EICASLAB™



Slow Motion

Who does what in Slow Motion operative sub-mode in RT-emb demo:

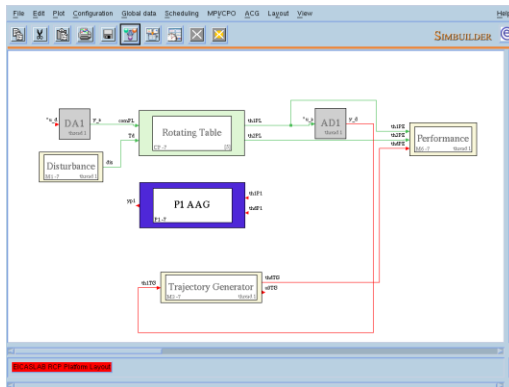
HW	EICASLAB RCP Platform	Embedded board target	Rotating Table emulator
SW	run control logic	unused	unused

simulated plant from
recorded data

Slow Motion

The **Slow Motion tool** repeats offline the experimental trial: the control functions receive as inputs the recorded outputs of the real plant and the recorded host commands instead of the simulated ones.

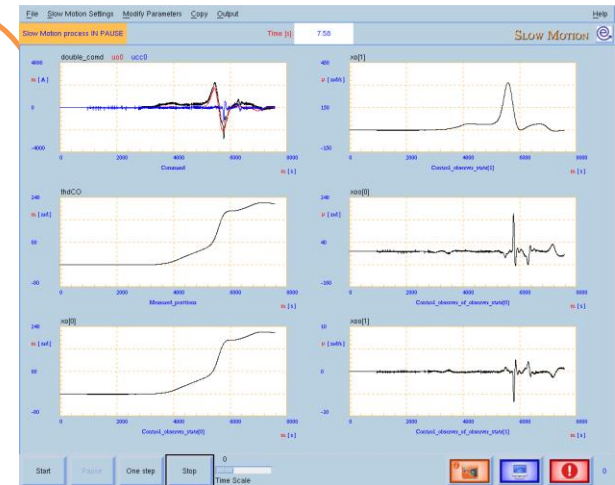
Main project in Slow Motion



*like real-time
execution of
control algorithms*

Previous
acquisition

measures



offline analysis, tuning