



20-sim 4C

Real Time Toolbox 1.1

What is 20-sim 4C?

20-sim 4C is a prototyping environment that allows you to connect 20-sim models to physical systems. The models can be executed as real-time C-code on hardware like PC's or ARM-9 based processor boards. This allows you to perform various tasks:

- **Measurement and Calibration:** From 20-sim 4C you can export C-code that will operate and read sensors.
- **Machine Control:** With 20-sim 4C you can export code to external targets to control the operation of machines. In 20-sim 4C you can start and stop the controller and change parameters during run-time.
- **Rapid Prototyping:** 20-sim models can be exported to 20-sim 4C with the click of a button and executed on a target with a second click. This makes 20-sim 4C a valuable tool for rapid prototyping.

Key Features

- **Targets:** With 20-sim 4C you can run code on any target that runs a RTAI Linux operating system like PC's, PC104 boards and ARM processors.
- **20-sim:** Any 20-sim model can be exported to C-code and imported in 20-sim 4C.
- **Command:** From 20-sim 4C you can start and stop running code on a target processor. During run-time you can change parameter values.
- **Monitoring and Logging:** In 20-sim 4C you can monitor and log every variable that is available on the target. Values are transmitted from the target to 20-sim 4C in real-time with sample rates up-to 100 Hz or off-line with the full sample rate.
- **Communication:** 20-sim 4C runs on a Windows PC. Communication between 20-sim 4C and a target is performed through ethernet using the TCP/IP protocol.
- **Speed:** Sample rates up to 50 kHz can be achieved, depending on the type of processor and co-processor.

Requirements

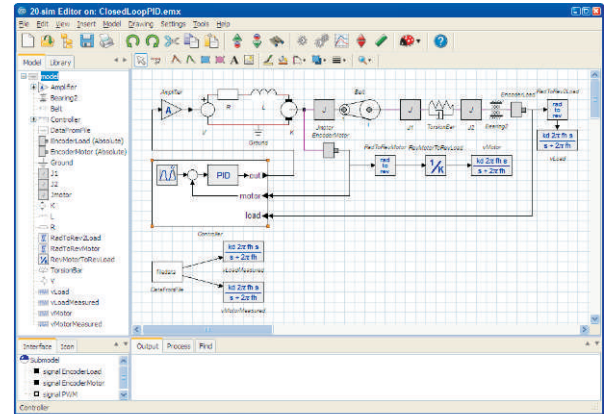
- **Windows PC:** 20-sim 4C runs on Windows XP and Windows Vista.
- **20-sim Professional:** 20-sim 4C can be used only in combination with 20-sim 4.0 Professional.

Contact

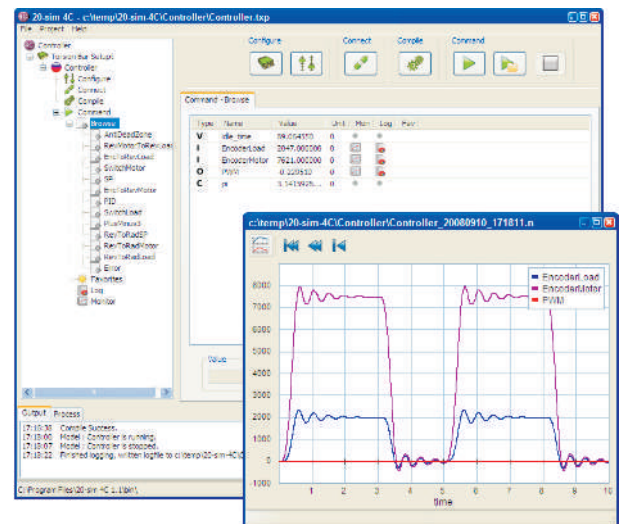
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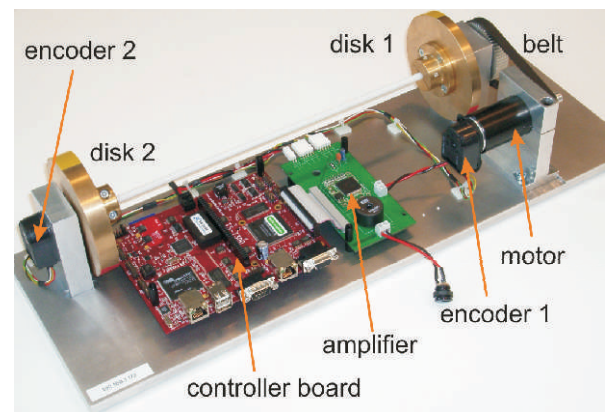
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In 20-sim you can generate C-code ..



which can be used in 20-sim 4C ...



to control real machines.

