

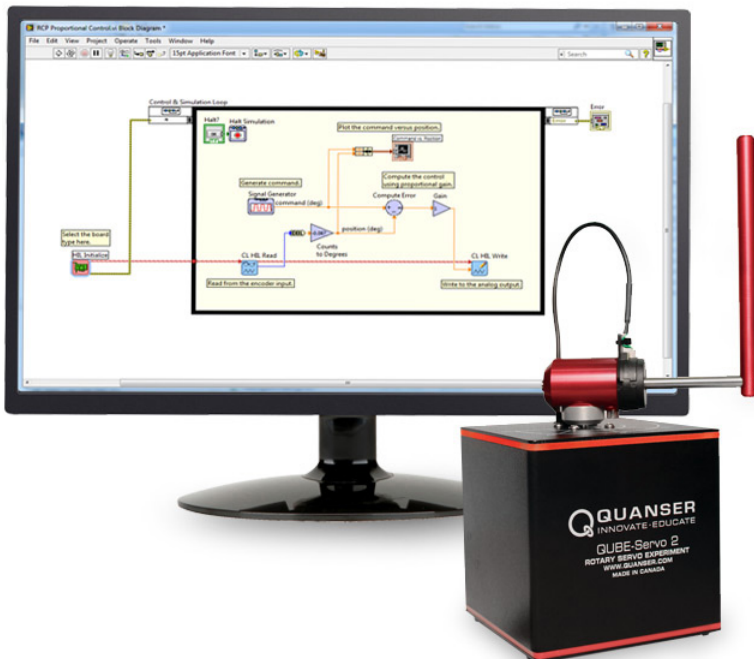
QUANSER RAPID CONTROL PROTOTYPING FOR NI LABVIEW™

Faster Control Design and Simpler Connectivity

The Quanser RCP add-on for the NI LabVIEW graphical development environment is a powerful control design tool that spans the spectrum of design, from simulation to control implementation. It significantly simplifies access to Quanser control experiments by taking care of all standard low level software and hardware configurations. The resulting VIs are clear and match standard system block diagrams, helping bridge the gap between theory and practical implementations.

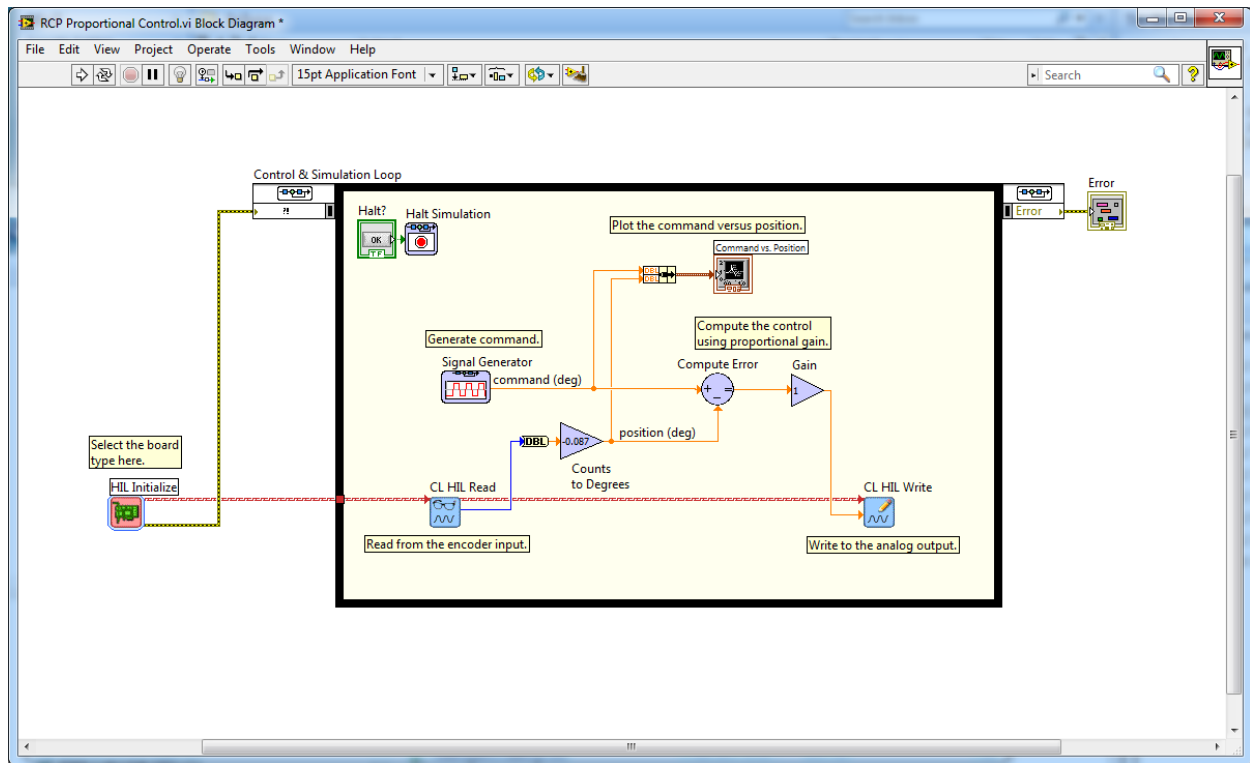
QRCP™ adds the ease of use and speed of development to control design programming in LabVIEW, significantly shortening the controller development cycle, and expanding capabilities of the NI LabVIEW Control Design and Simulation Module. QRCP™ supports most Quanser experimental plants, including the QUBE-Servo 2, rotary and linear motion control systems, 2 DOF and 3 DOF Helicopters, and more.

Features



- Access hardware through a set of hardware independent, preconfigured VIs
- Outputs are safely zeroed when VI is stopped or aborted
- Stream VI's support the following communications protocols: TCP/IP, UDP, shared memory, serial, pipe, and file
- Supports over 20 data acquisition boards from both National Instruments and Quanser
- Supports majority of Quanser experimental plants

Product Details



System Requirements

Supported host system	64-bit Microsoft Windows 10
Supported target system	PC or PXI running 64-bit Microsoft Windows 10
Software requirements	64-bit LabVIEW 2020 or LabVIEW 2021 LabVIEW Control Design and Simulation Module (used in most curriculum VIs) NI Device Drivers (i.e., NI-DAQmx) LabVIEW MathScript RT Module (only used in certain curriculum VIs)

About Quanser:

For over 30 years, Quanser has empowered over 2500 global academic institutions to tackle the challenges of the modern world by transforming engineering education and research. As educators with pedigree in controls, robotics, and mechatronics, we understand the needs of academia, and therefore able to help accelerate academic success by improving student motivation, practical experiences, and outcomes. With a unique approach to innovation, collaboration, and education we have produced several notable technology firsts that pioneered many critical contemporary trends.