

The KINOVA KORTEX™ Platform

How does it work ?

A user program, in the form of code, the Kinova Web App or a ROS node makes a Remote Procedure Call (RPC) available through the KINOVA KORTEX™ API.



API
RPC

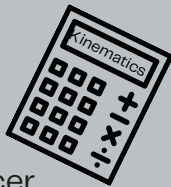
The message is sent to the appropriate service by a communication router in the robot controller.



Ex: High level base
service

When necessary, the controller calls its internal control library to compute joint commands.

The joint command is then queued in the robot sequencer



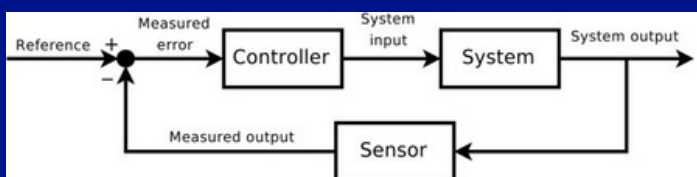
1 kHz internal loop

Includes current, torque, position and temperature feedback.

The command is sent to each actuators. Each actuator returns its status and sensor feedback to the controller



The internal control loop inside each actuator computes the electrical command and sends it to the motor.



The robot
moves!