## **Using jmCLIG Firmware Modules**

jmCLIG generates interactive firmware. It is not really intended to be used from a terminal application, this is the unfriendly way of doing it; but you can do it.

You can use these modules an any software having access to a serial port. (VB, C#, C++, Matlab, Excell, Labview...)

These firmware modules have their graphical interface counterparts. These GUI will be presented in jmGUI Modules documentation.

To interact with your firmware, you need to install the serial USB driver to communicate with mbed platform.

## http://mbed.org/handbook/Windows-serial-configuration

Once the serial driver is installed, you can use a standard communication terminal like HyperTerminal.

🜵 jmSerialCom		On Vista64 this communication
🗄 🗐 🕶 📔 🗋 🕕 🚳 🖓 🖷 🕈 🛛 🎯 🖉 🖉	- COM9 -	utility does not exist anymore.
list	1	
12:17:47 PM list	*	When you reset mbed:
jmCLIG Version 2011.01.05 Instance Saturday, February 12, 2011 11:21 AM Commands: iport iports GPPG0 gpioBits gpioBit bitRead list ver help feedback echo motor GPPMT motorSpeed pulse pulseInit pulseStop GPPP0 stepper stepperStop GPPST stepSpeed stepperAxis GPPSTA swRead swlnit GPPS0 init	E	<ul> <li>jmCLIG version and instance will be printed out.</li> <li>If you send command: list</li> <li>All available command names will be printed out.</li> <li>If you need help on a command, you just type the name without arguments and command line format will be printed out.</li> <li>help 1 enables on-chip help</li> <li>help 0 disables on-chip help</li> <li>echo, feedback and help are commands that can turn on or off messages from firmware.</li> <li>For more information, take a look at the source files.</li> </ul>
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## jmAll

jmAll firmware contains all presently available modules for proof of concept.

To try the modules, download the firmware from mbed.org

After downloading the firmware into your mbed, reset it.

Open your terminal program, connect to the serial port where mbed is wired and connect.

Resetting mbed while you are connected will print jmCLIG version and instance.

After hitting enter key, a list of all commands will be shown.

## **Most Important Commands**

- list
- help

list give you all available commands.

Type list to get the command name list. All command lines must be followed by a hit on enter key.



Example: stepper 0 118 123 0 44

Pin information is Port\*100 + bit position (0..31)

id is 0 PinA is Port1.18 PinB is Port1.23 Direction is 0 Delay between steps are 44

Since no Steps quantity was given, stepper will run in continuous mode. If a step quantity is given, stepper will stop after that amount of steps.

When a command is sent or when an event happens inside the chip, the chip will send a report.