

Rack Monitor GUI

The Rack Monitor user interface was written in Python. The widgets were created using the tkinter module. The tkinter module is the python implementation of tk. Access to hardware devices is made through the channel access module.

The GUI to the rack monitor is show below. The action menu at present has two items *update* and *quit*. When the update command is give

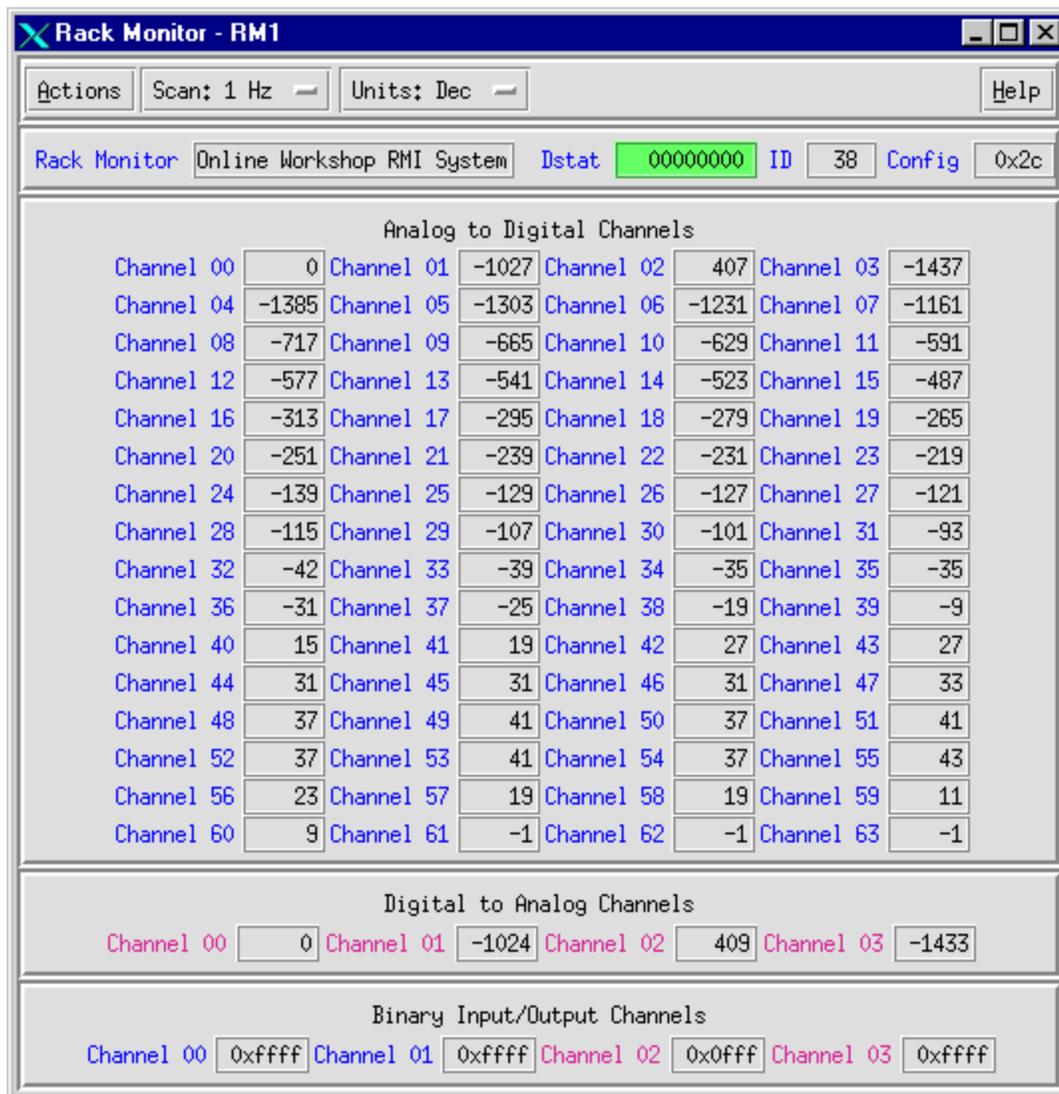


Figure 1. Rack Monitor.

the present state of the hardware device is read and displayed. The quit command exits from the program. The GUI is updated periodically. The update rate can be set from the scan menu. The units menu is used to select the format that numbers are displayed in. This can be hexadecimal, decimal or engineering. The next line shows status information of the rack monitor.

There are separate windows for displaying analog input, analog output, and binary input/output. There are 64 analog input channels, 4 analog output channels, and there are 4 channels for binary input and output. Labels which are displayed in magenta, indicate that data can be entered into the field. Blue indicates that the field is for display purposes only.

SUMMARY OF COMMANDS

QUIT → Exits from program.
UPDATE → Updates GUI with current information.
SCAN RATE → Sets the rate at which the GUI is updated.
UNITS → Selects the units which information is displayed in.
MAGENTA HIGHLIGHTED ITEMS →
Fields which accept data entry.

TO RUN

> Rm.py <Rack Monitor Name>