

## Resetting the 400 MHz NMR console

Sometimes the VNMRJ software will have problems communicating with the NMR console. When this happens the “su” command will hang indefinitely, the sample insert/eject may not work properly, the “go” command will not work, and other odd behaviors will occur. In addition you may see the error message “WARNING: Automation Card has NOT Booted in console”. When this happens the best way to fix the problem is to reset the system. Below are instructions on how to do this.

- Exit VNMRJ
- Open a terminal
- Enter the command “su acqproc” in terminal
- Enter the command “su” in the terminal
  - Enter password, which is attached to the monitor
- Enter the command “/vnmr/bin/setacq” in the terminal being careful to start with a slash
  - Hit the “Enter” key to accept the default [n] when asked if this is an imaging console with MTS amplifiers.
  - Hit the “enter” key again to accept the default of [eth1]
  - You will be presented with the following message. “Press the Enter key after pressing the console reset button”
  - Open the left hand door on the console. At the far left, in the middle, is a vertical card labeled CPU. On that card, above the transceiver with an Ethernet cable, is a red button labeled “reset”
  - Press the red reset button
  - Go back to the computer and hit the “Enter” key
- At this point be patient while the system resets itself. This may take a few minutes. You will know when the system has reset itself when the lights on the status box (The box on top of the console which displays the temperature) cycle and light up one by one. Also, in the console, just to the right of the CPU board used above, is the Magnet Sample Regulation Board. That board will have a red light during the rebooting process and the light will turn green when the system is ready.
- At the terminal type “exit” to restore a normal prompt.
- Type “vnmrj” or double click the desktop icon to start VNMRJ
- In VNMRJ type “su” in the command line or press the “Reset RF” button. Wait for the status to say “Setup complete” which may take some time if the temperature is not stable.