

RVP7 V02 Release Notes

These notes cover changes made to the RVP7 code since release V1 of 16 October 1997. If you are upgrading from an earlier release, please read those notes also.

Bug Repairs

1. Repaired the autoreset watchdog. It would hang after firing, and no printout would ever appear on the serial TTY.
2. The autoreset watchdog no longer fires when plot commands are run in chat mode.
3. Repaired a bug in which velocities and widths were incorrect in FFT mode. PPP mode was working fine. The incorrect velocities would tend to appear as small positive values.

New Features

1. Reorganized the non-volatile structure to include spare space, and changed the **F**, **R**, and **S** commands so that stored data from prior releases will still be valid for new releases. This means that you no longer have to retype the non-volatile setups after ROM upgrades. Setup parameters that are new will be filled in with factory defaults, and old values will be preserved. A count of the number of these “autodefaults” is given in the **V** command (if there were any).
2. Added the view-status (**V** command’s) printout to the **M** command’s overall dump. This way the status information is automatically logged along with the long printout.
3. Added detection of the cause of the last board reset. This information is used during initial powerup to give additional delay for slow 15V power supplies. The **V** command now lists this information in a new line, which also includes the total uptime since the last reset occurred.
4. Improved up/down sequence of the **V** subcommand (for number of spectra averaged) in the **Pr** and **Ps** commands. Added missing **V** subcommand in the help list for the **Pr** command.
5. Removed the words “reboot” and “restart”, to use “reset” uniformly instead.
6. Changed default setting of the “TRIGWF enabled” question to NO. This is more likely to be correct, i.e., for triggers configured by the **Mt<n>** and **Pb** commands, rather than by the host computer.
7. The **V** command now displays the date and time that the code release was built. This identifies the code vintage (in case the release notes have been lost), and is helpful when tracking unofficial interim release ROMs.

Setup Changes

1. New parameter in **Mc** section to add additional powerup delay for slow 15V supplies. This question was added because newer switching power supplies are tending to have

long powerup times (1–2 sec) to reduce their inrush current. You must be using the PLD RVP7–2–U47 for the reset condition to be knowable. If not, the RVP7 will list the cause as “unknown”, and will always apply the additional delay (even when the reset is not due to powerup). You may want to set the delay to zero in this case. Power supplies shipped prior to 25 October 1997 do not require the added delay.