MVME6100 Software changes from 0/6 Non-RoHS to 6/6 RoHS version

Below are software changes for the MVME61006E compared to the current non-RoHS version.

A new version (v2.1 RM02) of MOTLoad for the MVME6100 has been released. This release is primarily intended to support the MVME61006E ROHS product. However it is has several generic enhancement and bug fixes also. This release is backwards compatible with non-ROHS MVME6100s boards.

Highlights of the changes made in this release are:

- Bug Fix: Modified SCSI Host value to 7 (from 15) in order to work on narrow bus configurations. The original IR identified the issue specific to the Sony SMO-F551 MO drive, but could be required by any narrow SCSI bus device. Also added a 1 second delay after resetting SCSI bus before beginning device probing to avoid problems with detecting devices which are slow to come out of reset.
- Bug Fix: Network Problems with Heavy Traffic. Corrected processing of ARP packets to ensure the packet from the requested host is processed and not one from a different originator.
- Enhancement: Modified code which allocates the command-line prompt so that it can be set dynamically based on product ID information contained in the VPD. This change is added to support boards which can have multiple product names but are created out of the same product family build area. The change should be transparent for boards which continue to only utilize one name for its product ID.
- Enhancement: Added support for DHCP. Network booting now supports DHCP.
- Enhancement: Added support for 256JvD flash.
- Enhancement: Added support for BCM5421 Ethernet PHY.
- Enhancement: (ROHS only..) Add code to clear hung I2C bus at startup.
- Bug Fix: Deassert BDFAIL after VME configuration is complete. Previous versions of MOTLoad did not deassert BDFAIL during startup. This caused VME SYSFAIL to remain asserted.
- Bug Fix: Corrected erratic and slow startup behavior when PMCSpan devices are present. A problem existed with MOTLoad's interrupt usage when multi-function or PCI-PCI bridge devices were populated in a PMCspan card. This resulted in slow device probing and/or erratic behavior of the devices.
- Bug Fix: Corrected algorithm which sets the PLL parameters for the Promise PDC20269 ATA controller.
- Enhancement: Enhancement: Added a GEV parameter to disable MOTLoad's inherent design of turning on the board fail LED as part of executing the execProgram command. Now, if a user no longer wishes to have MOTLoad light the LED before passing control to the operating program, the user can define the new fail LED GEV as follows: "mot-boot-fail-led=off". This instructs the firmware to keep the board's fail LED extinguished during the firmware's portion of the boot process.

There are no changes to the MVME6100 Linux specifically for the Flash change or 6/6 RoHS board, the same Linux runs on both boards. However, an RM03 release was created to address several bugs fixed over the last year.

There is also an update to the VxWorks BSP for customers using the flash driver that consists of adding the new flash ID to the BSP.

For any questions, please contact your local sales representative.