

Config. program ☐ V1.00  
Firmware for BDI2000 ☒ V1.02  
Logic for BDI2000 ☐ V1.00



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## Enhancements

- Detection if target is freezed has been improved. For MPC8xx and MPC555 targets, freeze detection also works when the BDM connector pins VFLS0 and VFLS1 are not connected to the target. If not connected to VFLSx, this BDM connector pins should be left open or tied to Vcc.
- New Telnet command (QUIT) added to terminate the Telnet session.
- The Telnet memory modify commands (MM,MMH,MMB) support a new <count> parameter. It's now possible with this commands to fill a memory range with a byte, half word or word pattern.
- The GDB command „detach“ will start a reset sequence. The behavior is the same as when you enter „reset“ at the Telnet prompt. This way, it's possible to reset the target and reload the program code without opening a Telnet session.

## Error Correction

- An error in the fast programming algorithm for Intel flashes has been corrected. The fast algorithm did not work for Intel flashes connected to a 16bit or 8bit memory bus. For a 32bit memory system, the algorithm was correct.

Config. program ☒ V1.01  
Firmware for BDI2000 ☒ V1.03  
Logic for BDI2000 ☐ V1.00



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## Enhancements

- The Telnet memory display commands (MD,MDH,MDB) output the memory content also in ASCII format.
- Support for host communication via network gateway added.
- Load offset added to Telnet LOAD, VERIVY and PROG command.
- Registers can be defined and access by name via Telnet (see manual).
- The special load format IMAGE has been added to load a complete Linux boot image.
- Command line utility added to setup the BDI from any Linux / UNIX host (see manual).

Config. program ☐ V1.01  
Firmware for BDI2000 ☒ V1.04  
Logic for BDI2000 ☐ V1.00



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## Enhancements

- MMU support for Linux kernel debugging added (see manual).
- New Telnet command (BREAK) added to display and change current breakpoint mode.
- GDB binary downloading support added (X<memaddr>,<len>:bbbbbbbb).
- Automatic load of binary files now also supported.

Config. program ☐ V1.01  
Firmware for BDI2000 ☒ V1.05  
Logic for BDI2000 ☐ V1.00



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## Enhancements

- User selectable Telnet prompt added. The Telnet prompt can be defined in the configuration file and also interactively changed during a Telnet session.
- Flash programming support for Atmel AT49 chips added.
- New flash erase modes support now chip and block erase.
- The flash programming function (PROG) now supports different file formats.

Config. program ☐ V1.01  
Firmware for BDI2000 ☒ V1.06  
Logic for BDI2000 ☐ V1.00



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## Enhancements

- New Telnet command (CONFIG) added to display current BDI configuration.
- New Telnet command (FLASH) added to change the flash configuration interactively. This may be useful when running a Telnet script to program different flash memory systems on the target. For example if there is a 8bit boot flash and a 32bit main flash system.
- A HALT entered via Telnet sends a signal to GDB to inform it about the new target state. Stopping the target via Telnet may be necessary if GDB does not forward ctrlC to the BDI. This is sometimes the case when working with a GUI on top of GDB.
- With version 5.0, GDB can request additional register values based on the selected target processor type (GDB command „set processor“). The BDI now supports this extended register transfer. In order to be compatible with older GDB versions and to optimize the time used to read out register values, a new configuration parameter has been added. This parameter (REGLIST) allows to define groups of registers really read from the target. For example, you can define that you are interested in getting some SPR's but the BDI should not read the floating point registers.
- Support for MPC5xx targets added. This includes floating point register access and also programming of the internal flash of MPC555 and MPC565.