

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

ABATRON

Date: March 30, 2001
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Enhancements

- Support for BDI2000 Rev.C added.
- BDM interface timing improved.

Config. program V1.01
Firmware for BDI2000 V1.01
Logic for BDI2000 V1.04

ABATRON

Date: Sept. 5, 2001
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Enhancements

- New Telnet command (BREAK) added to display and change current breakpoint mode.
- New Telnet command (CONFIG) added to display current BDI configuration.
- Support for GDB protocol Z-packet added.
- New Telnet command (DUMP) added to upload a binary memory image.
- Support for GDB „monitor“ command added.
- Support for MCF5407 and MCF5272 added.

Error Correction

- Error when host uses 64k TCP window corrected.
- Deadlock removed when GDB stops program execution with ctrl C.

Config. program V1.02
Firmware for BDI2000 V1.02
Logic for BDI2000 V1.04

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Date: Nov. 11, 2002
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Enhancements

- Support for MCF5249 added.
- A List of valid memory ranges can be defined to avoid invalid memory accesses via the BDM interface (MMAP entry in the init list).
- The Windows setup tool is now a WIN32 application.
- BDI Firmware programming time improved for the Linux setup tool (bdisetup).
- Processing of GDB monitor command improved.
- The new Telnet command RDUMP writes the values of all user defined registers to a file on the host.
- The RS232 port of the target can be routed via the BDI to a TCP/IP channel, see user's manual.
- New configuration parameter (STARTUP) added, see user's manual for more information.
- Memory test function implemented (Telnet MT command).

Error Correction

Config. program V1.03
Firmware for BDI2000 V1.03
Logic for BDI2000 V1.04

ABATRON

Date: June 27, 2003
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Enhancements

- Support for MCF5280/82 added.
- Support for programming of the MPC5282 internal flash (CFM) added.
- Support for network configuration via BOOTP added.
- Improved Telnet interface with history buffer and line editing.
- The Telnet command „CONFIG“ allows to change the name of the configuration file name. The new name is stored in the BDI's flash and a boot sequence is started.

Error Correction

Note:

The BDI's ethernet MAC address will change with this release.
The setup tool displays the new MAC address.

Config. program V1.03
Firmware for BDI2000 V1.04
Logic for BDI2000 V1.04

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Date: April 21, 2004
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Enhancements

- Support for MCF5470/80 (V4e core) added (including FPR and TLB access via Telnet).
- The file names in the configuration file maybe relative to the configuration file path.
- The Telnet command „reset“ is now synchronous. This allows the use of it via a GDB monitor command. Also the handling of GDB monitor commands has been improved.
- The Telnet command „CONFIG“ allows to change the name and IP address of the configuration file. The new name and IP address is stored in the BDI's flash and a boot sequence is started.
- New Telnet DELAY command added. Maybe useful when working with GDB command scripts.
- Support for Intel Strata and AMD MirrorBit flash added.
- Support for very slow CPU clocks added.
- New configuration parameter (RESET) added to define the time how long reset is asserted.
- New configuration parameter (WAKEUP) added to support targets that needs some wake-up time after a reset.
- The way a target halt is detected has been improved. This was necessary to allow the use of the ColdFire STOP instruction during BDM debugging.

Config. program V1.03
Firmware for BDI2000 V1.05
Logic for BDI2000 V1.04

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Date: May 27, 2004
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Enhancements

- All network parameters can be changed with the Telnet CONFIG command.

Error Correction

- Target debug mode entry was not detected reliable. This has been corrected now.

Config. program ■ V1.04
Firmware for BDI2000 ■ V1.06
Logic for BDI2000 ■ V1.05

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Date: August 20, 2004
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Enhancements

- Support for new CPU types added.
- Better description when to load the standard or synchronous logic into the BDI2000.

Config. program V1.04
Firmware for BDI2000 V1.07
Logic for BDI2000 V1.05

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Date: July 22, 2005
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Enhancements

- Support for MCF5213 family added.
- Telnet history buffer no longer filled with repeated commands.
- Improved Telnet „erase“ command to erase multiple (same size, continuous) flash sectors with one command.
- New Telnet command added to unlock multiple (same size, continuous) flash sectors with one command.
- The erase list accepts a new UNLOCK option (see user's manual).

Config. program V1.05
Firmware for BDI2000 V1.08
Logic for BDI2000 V1.05

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Date: June 9, 2006
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Enhancements

- Enhanced flash erase support via configuration file (see user's manual).
- The Windows setup tools now allows to select a COM port in the range 1 - 19.
- Improved Telnet history buffer handling.
- Flash erase time-out increased.
- The Telnet CONFIG command displays the firmware version.

Config. program V1.05
Firmware for BDI2000 V1.09
Logic for BDI2000 V1.05

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Date: Oct. 17, 2007
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Enhancements

- New flash algorithm types added (S29M64X8, S29M32X16).
- The MirrorBit algorithm uses the write buffer also when no workspace is defined.
- New RECONNECT option to the DEBUGPORT parameter added. When present, a Telnet/GDB (TCP) connection request to an already open TCP channel is accepted if the host IP is the same as the initial one. The old TCP channel will be closed immediately.
- Telnet accepts now multiple commands separated by a semi-colon on one line.
- Telnet IAC option handling improved.
- Support for MCF5445x processor family added (CPUTYPE MCF5445).

Config. program V1.05
Firmware for BDI2000 V1.10
Logic for BDI2000 V1.05

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Date: May 7, 2008
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Enhancements

- The GDB register packet has been changed to support recent GDB versions. Floating-point values are now transferred as 8 bytes instead of the older 12 bytes format.
- The BREAKMODE command now has a new option NOUHE. The BDI normally inserts HALT instructions as its breakpoint instruction. In order to ensure that breakpoints are processed correctly when they are encountered in user-mode code, the BDI normally sets the CSR[UHE] bit to allow user-mode execution of the halt instruction. If NOUHE is defined, the BDI no longer sets CSR[UHE] and a HALT instruction in user-mode leads to an Illegal instruction exception that can be handled by the operating system or target resident debugger.
- A new register type (CMMx) has been added. This allows to define memory mapped registers which are based on an address stored in a control register. For more info about this new register type look at the manual and the mcf5485.def register definition file.

Error Correction

- Prior to firmware version 1.10, the Telnet TLB/WTLB commands would modify the MMUAR, MMUTR, MMUDR registers to perform the operation, but would not restore them. Now the BDI will save the existing values of these registers and restore them after the operation is completed.

Config. program V1.05
Firmware for BDI2000 V1.11
Logic for BDI2000 V1.05

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Date: August 5, 2011
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Enhancements

- Download speed via GDB improved.
- Maximal number of software breakpoints increased to 64.
- Support for new CPU types added.