# Prog-Express Changelog

## Introduction Notes

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The version number of Prog-Express is formatted as Major.Minor.Revision. A build number is not used.

Currently latest available versions per OS:
Windows 10: 3.8.9-2
Linux: 3.8.8-1
OSX: 3.7.6-4 (unsupported on newer systems because of 64Bit requirements.)

## Version 3.8.9

Release Date: 20th May 2021

1. Enhanced chip support.
2. Fix for some possible crashes.
3. Some project settings were not saved before.
4. Many internal changes and improvements.

## Version 3.8.8

Release Date: 31th August 2020

5. Enhanced chip support.
6. New firmware for BX32, BX32P, BX40 (Model II).
7. Added comments for device properties.
8. Better Information about Chip-Tuner Status for the BX48
9. Many internal changes and improvements

## Version 3.8.7

Release Date: - No public release date -

1. Internal Version only for development

## Version 3.8.6

Release Date: 27th April 2018

2. Enhanced chip support.
3. New firmware for BX32, BX32P, BX40 (Model I + II).
4. Added comments for device properties.
5. Fixed a bug that caused incorrect loading of GALasm Jedec files.

## Version 3.8.5

Release Date: 22th June 2017

1. Enhanced chip support.
2. New firmware for BX32, BX32P, BX40 and BX48 (Model I + II).
3. Added Croatian manual.
4. Fixed an issue in the device protection methods.
5. Fixed a bug in the automatic detection of straight hex files.
6. Improved localization.

## Version 3.8.4

Release Date: 6th October 2016

1. Enhanced chip support.
2. Added an option to disable the warning dialog for the chip auto detect feature.
3. Improved localization.

## Version 3.8.3

Release Date: 11th August 2016

1. Fixed a potential bug that caused an application crash due to a culture dependent string operation on some windows localizations.

## Version 3.8.2

Release Date: 9th August 2016

1. Enhanced chip support.
2. Fixed a bug in the file loading function that caused a wrong behavior on loading intel hex files (>64KB) with extended segment records.
3. Please notice: We repacked this version due to an initial deployment issue.

## Version 3.8.1

Release Date: 27th July 2016

1. Enhanced chip support.

2. Improved function to detect inserted/removed chips in production mode.
3. Fixed a bug that caused a MessageBox to pop under when the logging feature is activated.

## Version 3.8.0

Release Date: 7th June 2016

1. Enhanced chip support.
2. New firmware for BX48 (Model I + II) (2.12).
3. Fixed broken chip database update functionality.
4. Fixed a bug that could cause a wrong calculation of memory size.
5. Fixed a bug in the Jedec file loading routine.
6. Fixed a bug in the reading of chip options for chips with multiple memory sections.
7. Fixed a bug that could cause saving an empty file for newly created files.
8. Fixed a bug that causes new and empty files to be marked as modified.

## Version 3.7.9

Release Date: 11th May 2016

1. Enhanced chip support.
2. Fixed a bug that could cause a wrong verification result.

## Version 3.7.8

Release Date: 3rd March 2016

1. Enhanced chip support.
2. Fixed Minor Issues.

## Version 3.7.7

Release Date: 1st December 2015

1. Enhanced chip support.
2. Added close buttons hex editor tabs.
3. Added support for drag and drop from windows explorer onto the hex editor.
4. Added a database update function for on demand support cases.
5. Improved the hamming ecc calculation algorithm and added additional control elements. Only visible to chips who utilize hamming ecc.
6. Fixed a bug that could cause a wrong loading result for some hex file formats. This bug was introduced in version 3.7.6.
7. Fixed a big that could cause the usage of the wrong localization.
8. Fixed Minor Issues.

## Version 3.7.6

Release Date: 8th October 2015

1. Enhanced chip support.
2. Removed a lot of unnecessary Windows only code from the Linux and OS X version.
3. Removed the buggy and dangerous firmware update dialog from the OS X version and replaced it with the command line tool »bxusb«. A GUI will follow in a later release.
4. Fixed Minor Issues.

## Version 3.7.5

Release Date: 9th September 2015

1. Enhanced chip support.
2. Fixed Minor Issues.

## Version 3.7.4

Release Date: 11th June 2015

1. Enhanced chip support.
2. New firmware for BX32, BX32P and BX40 (Model I + II) (2.35).
3. New firmware for BX48 (Model I + II) (2.11).

## Version 3.7.3

Release Date: 16th March 2015

1. Enhanced chip support.
2. New firmware for BX32, BX32P and BX40 (Model I + II) (2.34).
3. Added remote commands »SelectProgrammerByIndex« and »SelectProgrammerBySerial«.
4. Improved ECC for NAND flash devices by removing the page size limitation of 512 for the Hamming Block Code. From now on you can choose any page size with a common divider of 32.

## Version 3.7.2

Release Date: 27th January 2015

1. Enhanced chip support.
2. New: The Linux version now uses native dialogs for opening and saving files.
3. Added graphical interface for firmware updates on Linux.
4. Fixed: Import of Intel-Hex files also writes undefined bytes.
5. Fixed: The height of the dialog for info messages on Linux is not fully utilized.

## Version 3.7.1

Release Date: 16th January 2015

1. Enhanced chip support.
2. Fixed: Automatic driver installation fails on Windows 8.1 and later.
3. Fixed: Added missing documentation for the Linux version.
4. Fixed: Minor issues.

## Version 3.7.0

Release Date: 23rd December 2014

1. Enhanced chip support.
2. Added a possibility to download a suitable mono framework on OS X due to known bugs of the current mono release.
3. Added a command line tool that allows a full firmware update via command line for Linux and OS X.
4. Fixed: Bug that prevents the detection of setting changes for some NAND chips.
5. Optimized the Linux and OS X version.

## Version 3.6.8

Release Date: 15th October 2014

1. Enhanced chip support.
2. Improved firmware recovery.
3. Added new checksum Sum (32).

## Version 3.6.7

Release Date: 3rd September 2014

1. Enhanced chip support.
2. New Firmware for BX48 Batego II (2.10) and BX48 Batego (2.10).
3. Fixed: spaces in path arguments cause an error in the remote interface since version 3.6.4.

## Version 3.6.6

Release Date: 28th August 2014

1. Enhanced chip support.
2. Fixed: The splash screen is missing on Linux and OSX.

## Version 3.6.5

Release Date: 14th August 2014

1. Enhanced chip support.
2. New Firmware for BX48 Batego II (2.09) and BX48 Batego (2.09).
3. Fixed: Exception while erasing some special chips with enabled "mirror buffer data" project option.

## Version 3.6.4

Release Date: 1st August 2014

1. Enhanced chip support.
2. Fixed: Remote commands will be ignored on Linux and OS X.
3. Fixed: Prog-Express crashes in a common setup on OS X.
4. Fixed: The latest firmware files are missing in the deployment package for Linux and OSX.
5. Fixed minor bugs.

## Version 3.6.3

Release Date: 6th June 2014

1. Enhanced chip support.
2. Fixed minor bugs.

## Version 3.6.2

Release Date: 12th May 2014

1. Enhanced chip support.
2. New Firmware for BX48 Batego II (2.08) and BX48 Batego (2.08).

## Version 3.6.1

Release Date: 25th April 2014

1. Enhanced chip support.
2. Exchanged a conversion function that causes an application crash on some Linux distributions.

## Version 3.6.0

Release Date: 13th March 2014

1. Enhanced chip support.
2. Fixed: Prog-Express crashes on Linux on the attempt to open the chip options dialog when an Atmel AVR Chip is chosen.
3. Fixed a bug in the remote command interpreter.

## Version 3.5.9

Release Date: 12th February 2014

1. Enhanced chip support.
2. New Firmware for BX48 Batego II (2.07) and BX48 Batego (2.07).

## Version 3.5.8

Release Date: 3rd February 2014

1. Enhanced chip support.
2. Fixed a bug that caused a malfunction of the Chip Tuner edit panel on some systems.

## Version 3.5.7

Release Date: 23th January 2014

1. Enhanced chip support.

## Version 3.5.6

Release Date: 8th January 2014

1. Enhanced chip support.
2. Updated some meta information.
3. Fixed minor bugs.

## Version 3.5.5

Release Date: 17th December 2013

1. Enhanced chip support.

## Version 3.5.4

Release Date: 4th December 2013

1. Enhanced chip support.

2. Improved file loading of Motorola-S-Record files. From now on records with an invalid checksum are logged and shown to the user instead of aborting the loading at all.

## Version 3.5.3

Release Date: 20th November 2013

1. Enhanced chip support.
2. Added support for ASCII Hex files. From now on it is possible to auto detect, create, edit, load and save ASCII Hex files.
3. Improved algorithm for the automatic detection of Staight-Hex files.
4. Improved algorithm for the automatic detection of ASCII-SPACE files.

## Version 3.5.2

Release Date: 8th November 2013

1. Enhanced chip support.
2. Improved the tolerance of the loading routine for straight hex files. From now on blank lines are ignored instead of aborting the loading progress at all.
3. Fixed a rendering bug of the tab page that occurred on Linux by typing to a newly created file.

## Version 3.5.1

Release Date: 30th October 2013

1. Enhanced chip support.
2. Fixed a bug in the serial number generator.
3. Fixed a bug in the engine map detection in the chip tuner extension that caused a general system failure.

## Version 3.5.0

Release Date: 8th October 2013

1. Enhanced chip support.
2. In production mode, the 'use programmer in production' flag will be saved into project files now.
3. Improved Jedec file support. Because of an erroneous behavior of some third party tools from now on the loading routine additionally loads invalid Jedec files with missing ETX control character and missing transmission checksum.
4. Fixed a bug that may occur at special file content when trying to auto detect the file type.
5. Fixed a bug that brings up an error message while opening the chip options at chips like ATmega164 and others.

## Version 3.4.9

Release Date: 19th September 2013

1. Fixed a packaging issue of the setup in version 3.4.8

## Version 3.4.8

Release Date: 19th September 2013

1. Enhanced chip support.
2. Added Windows 2000 Professional system driver for the BX48 Batego.
3. Improved the automatic file detection and loading handler of the file formats ASCII-Space and Straight Hex.
4. Changed default output format of ASCII-SPACE and Straight Hex files to improve the compatibility and interoperation with software from third parties. Files that are saved in the old default format will automatically be updated to the new default format on saving.
5. Fixed a bug that could crash the application on the attempt to save a document in the Tektronix file format when the address range exceeds the allowed address range from 0x0000-0xFFFF.
6. Improved BX48 firmware, which fixes a problem with signature reading at some old chips.

## Version 3.4.7

Release Date: 26th August 2013

1. Enhanced chip support.
2. Fixed a bug that prevents an application start on computers with .NET 2.0 or lesser. This bug concerns Prog-Express version 3.4.3 to version 3.4.6.
3. Fixed a bug which caused an unprotection failure at some specific page oriented chips like 29C64B when using a memory offset chip option.
4. Fixed minor issues.

## Version 3.4.6

Release Date: 8th August 2013

1. Enhanced chip support.
2. Added a possibility to disable the support for the BX48 through a setting in a configuration file. Ask our support for this feature if you have a how to enable it if you also need this.
3. Fixed a bug that disabled the possibility to add file associations on some systems.
4. Fixed a potential bug that could crash the application with a misleading error message during operation.

## Version 3.4.5

Release Date: 11th June 2013

1. Fixed a bug that prevents the usage of the chip tuner extension. This bug was introduced in version 3.4.4.

## Version 3.4.4

Release Date: 10th June 2013

1. Optimized the application startup and removed some unused overhead.
2. Optimized the change of software modes.
3. Fixed a bug that prevents the application start by user accounts with restricted permissions.
4. Fixed some rendering issues of the user interface.
5. Fixed some packaging issues for the deb package that prevents the installation on the latest Ubuntu release.
6. Fixed a bug which caused an error message in Prog-Express 3.4.3 when using very old NMOS chips with VPP >14 Volt at BX32 – BX40 in hardware version 1.0.

## Version 3.4.3

Release Date: 7th May 2013

1. Enhanced chip support.
2. Fixed USB communication failure at GAL16V8 chips (and maybe others) when using old "Full-Speed 12 Mbps" USB ports.
3. Updated software translation: French language

## Version 3.4.2

Release Date: 28th March 2013

1. Enhanced chip support.
2. Added community provided x64 driver for the Batronix USB Chip Programmer.

## Version 3.4.1

Release Date: 15th March 2013

1. Enhanced chip support.
2. Updated software translation: Japanese language
3. New software manual translation: Japanese language
4. Fixed a bug that prevents the registration of the extra module Chip Tuner.

## Version 3.4.0

Release Date: 20th February 2013

1. Enhanced chip support.
2. Fixed a bug that prevents the registration of the extra module Chip Tuner.
3. Minor bug fixes.

## Version 3.3.9

Release Date: 14th December 2012

1. Enhanced chip support.
2. Fixed a potential bug in the fill selection strategy of the hex editor to prevent an application crash in a very special use case.
3. Several minor bug fixes.

## Version 3.3.8

Release Date: 5th November 2012

1. Enhanced chip support.
2. Some smaller improvements.

## Version 3.3.7

Release Date: 29th October 2012

1. Enhanced chip support.
2. New software manual: Russian language.
3. Updated software translation: Polish language.
4. Improved the S-Record file loading. From now on the loading routine is able to ignore invalid lines to enable the use of application specific files that merge application information and S-Records in their output files.
5. Fixed a bug in the read method that could crash the application in a very special and uncommon use case.
6. Fixed a bug in the S-Record file loading, that caused an appending of some unnecessary bytes at the end of the file.
7. Fixed a potential bug in the S-Record file loading that could cause in a special case the usage of a wrong initialization value for undefined bytes.
8. Fixed a bug in the general file IO layer that could crash the application in a very special case.
9. Fixed a potential null reference exception that could cause an application crash (in a very special case) while changing the UI language at runtime.
10. Fixed rendering issues of the graphical user interface.

## Version 3.3.6

Release Date: 9th October 2012

1. Enhanced chip support.
2. New software translations: Polish and Traditional Chinese language.
3. Fixed a bug introduced in 3.3.4 that could cause a buffer overrun during automatic file format detection on files with special binary signatures.
4. Fixed a bug which prevented BX48 Batego II firmware update to version 2.0.3.
5. Some smaller improvements.

## Version 3.3.5

Release Date: 18th September 2012

1. Enhanced chip support.
2. New software translation: Bulgarian language
3. Updated manual translations: Spanish language
4. Adapter information at Chip Browser added.
5. Several smaller improvements.

## Version 3.3.4

Release Date: 15th August 2012

1. Enhanced chip support.
2. Improved Motorola file loader
3. Updated software translations: Portuguese, Russian and Spanish language

## Version 3.3.3

Release Date: 26th June 2012

1. New manual translation: Romanian language.
2. Added firmware update dialog for Linux and Mac OS.
3. Fixed a potential bug that could cause an invalid shutdown when the application exits.
4. Fixed several fewer important issues.

## Version 3.3.2

Release Date: 15th June 2012

1. Enhanced chip support.
2. Added the new remote command “selectchipvariant”. With this command any other software can set the chip variant in the current Prog-Express mode. Therefore it is no longer necessary to load a Prog-Express pep file to set the chip variant remotely.

3. Added the new remote command “savechiplist”. Saves a text file with a list of chip variants into a file. Used for selecting chips by remote control command “selectchipvariant”.
4. Updated software translation: Chinese language
5. Question dialogs allow answering by keys (‘Y’ and ‘J’ for yes and ‘N’ for no).
6. Some small improvements
7. Fixed a bug which prevented the process start in the production mode when using separate files for each programmer while not all programmers was enabled for this production run.
8. Fixed a potential bug that prevents the correct usage of a content splitter on Mac OS.
9. Fixed some minor bugs.

## Version 3.3.0

Release Date: 3rd May 2012

1. Enhanced chip support.
2. Added support for the new Ubuntu 12.04 (Precise Pangolin).
3. New software translation: Romanian language
4. Updated software translations: Danish, Swedish language
5. Updated the application icon.
6. Updated the user interface (glyphs, gradients some colors) on several places.
7. Removed unnecessary lines from the user interface to reduce graphical distractions.
8. Fixed a little rendering bug in the file choose control.
9. Fixed a rendering bug in the Batronix window decoration.
10. Fixed some minor bugs of the log view.
11. Fixed a bug on Linux und Mac OS concerning to closing tabs in the Hex-Editor.
12. Fixed a potential crash of the bars view on Linux and Mac OS.

## Version 3.2.9

Release Date: 19th April 2012

1. Enhanced chip support.
2. Updated software translations: Greek and Turkish language
3. Updated software manual: German language
4. Fixed a bug in the multi file mode control that prevents a restore of saved buffer offsets.
5. Fixed a potential crash of the additional file information area.
6. Fixed a display bug in the 2D data view of the Hex-Editor mode.
7. Several smaller improvements

## Version 3.2.8

Release Date: 30th March 2012

1. Enhanced chip support.
2. Improved reliability and safeness of the firmware update process.
3. Improved operator mode settings to provide a more secure production environment.

4. Improved the password dialog used by the operator mode. From now on the entered password is masked behind asterisk letters to keep out prying eyes.
5. Fixed a potential crash trigged by the attempt to load or save a project while the physical file is locked by an external program.

## Version 3.2.7

Release Date: 15th March 2012

1. Enhanced chip support.
2. When the process step "program chip with buffer" is executed separately, Prog-Express automatically checks if the chip is empty before.
3. Separate process steps are visible by default now.
4. Separate process steps are now displayed crossed out if disabled.
5. Chip auto detection feature improved.
6. Several small improvements.
7. Fixed a bug at NAND chip programming when using the spare area usage option "don't use spare area". When using this special option the source data wasn't programmed correctly. Verify failed and/or a lot of bad blocks were detected at further accesses.
8. Fixed a bug in the chip options control, which throws an exception if the user chooses an invalid Intel-Hex (with bad formatted records) as input file.
9. Fixed a bug that could occur is the programmer is disconnected while he is in work.

## Version 3.2.6

Release Date: 23th February 2012

1. Enhanced chip support.
2. Improved Mac OS compatibility.
3. Removed the X11 dependency on Mac OS.
4. Fixed a bug that could cause an application crash on Linux and Mac OS.
5. Fixed a bug that prevents the sound playback on Mac OS.
6. Fixed a bug that could emit a breakdown of the file menu after its first usage on Mac OS.
7. Fixed a bug in the checksum calculation that could cause an infinite loop in a special case.
8. Fixed memory leaks.
9. Fixed enable/disable GUI feedback in the production mode.
10. Fixed scrollbar of chip browser.
11. Fixed minor bugs.

## Version 3.2.5

Release Date: 3rd February 2012

1. Added possibility to update the programmer Firmware for BX23-BX40 on Linux.
2. Improved status bar of hex editor to provide better multi platform features.
3. Removed the unnecessary border around hex editor documents.

4. Fixed a drawing issue of the number box.
5. Fixed a bug in the number box that could crash the application in some special cases.
6. Fixed a bug while verifying chip options of a memory chip with readable sector protection bytes. The log area showed always that the process was failed - also if the verify was correct.
7. To remove rarely racing situations on some pc, the checksum recalculation was disabled while file operations are running.
8. Fixed a bug within the production mode. Removed a wrong/unnecessarily warning message when programmer specific chip options were used at some chips.

## Version 3.2.4

Release Date: 13th January 2012 (Linux and Mac OS only)

1. Applied refactoring on several dialogs to acquire a more standardized look and feel.
2. Improved Linux and Mac OS compatibility.
3. Replaced icons on some places by more significant ones to improve the clarity and comprehensibility of its purpose.
4. Fixed a bug in the Linux version that prevents an update of the status text on a document change.
5. Fixed rendering bugs that occurred on Linux and Mac OS.

## Version 3.2.3

Release Date: 11th January 2012

1. Enhanced chip support.
2. Improved the handling of the software option for undefined bytes. From now on this setting is more generally admitted.
3. Improved the file chooser control. From now on it polls the selected file for external changes and updates the file metadata automatically if necessary.
4. Improved the operator mode behavior. While operator mode is activated, software options can't be accessed anymore.
5. Updated copyright information to 2012.
6. Fixed a bug that could prevent the selection of a programmer through the dropdown of the programmer choose control according to a manual USB reconnection.
7. Fixed a bug that could crash the application on to the usage of damaged project files.
8. Fixed memory leaks.

## Version 3.2.2

Release Date: 9th December 2011

1. Fixed a bug concerning to the automatic device setup of the windows installer.

## Version 3.2.1

Release Date: 8th December 2011

1. Enhanced chip support.
2. Added drivers for the upcoming Windows 8. Tested on the developer preview version.
3. Added German translation to device driver setup tool.
4. Improved device driver setup tool.
5. Chip option »memory used« at multi-memory chips is saved to pep file now.
6. Fixed a bug when using UNC paths at the »read chip« mode.
7. Fixed a bug when using huge NAND flash chips together with file > chip size check.
8. Fixed a bug within the chip options at NAND chips. Chip size was displayed in bits – not in bytes.
9. Minor bug fixes.

## Version 3.2.0

Release Date: 28th November 2011

1. Enhanced chip support.
2. Fixed a bug when using huge NAND flash chips together with file > chip size check.

## Version 3.1.9

Release Date: 9th November 2011

1. Enhanced chip support.
2. Added new chip options for in system programming (ISP).
3. Improved NAND support.
4. Improved ATmega support.
5. Added support for 24 bit addressing to the hex-editor.
6. Fixed a bug when reloading pep files on a Turkish localized Windows OS.
7. Fixed a bug in the hex-editor when importing files far behind the last existing editor byte.
8. Fixed a bug in the hex-editor that caused a possibility to write the next changed byte (after a manual change of the endianness) to a wrong offset.
9. Minor bug fixes.

## Version 3.1.8

Release Date: 6th October 2011

1. Enhanced chip support.
2. Changed the behavior when using the import file feature in the Hex-Editor mode. With disabled preserving option, the Hex-Editor will open the file in a new tab now. With enabled preserving option, the file name won't be changed anymore and the unnecessary reload question doesn't pop up any longer.

## Version 3.1.7

Release Date: 23th September 2011

1. Enhanced chip support.
2. Added the file format information to the hex editor status bar.
3. Add new remote command "msgbox" to show a message box in Prog-Express. This is especially useful for automation purposes.
4. Added a »!FF not found« message to the hex editor that is shown to the user in the case of a failed search for a not 0xFF byte.
5. Improved the opening behavior of the hex editor context menu. From now on it opens as close as possible to the current caret position when it's invoked by [SHIFT] + [F10] or the windows application key.
6. Improved the opening behavior of the document tab context menu. From now on it opens also at the mouse location even if the documents are docked in nested groups.
7. Saves .tek files as Tektronix file and .asc as ASCII space files now.
8. Fixed a bug hex editor concerning to the used hex file format in the case of an auto reloaded document due to an external change. Formerly the reload function ignores the hex file format setting of the user and uses always an automatic detection algorithm. From now on it is possible to set a fixed hex file format.
9. Fixed bug when loading PIC chip options from non binary files.
10. Fixed the white text on white background color settings for the grid settings in 3D mode.
11. Fixed a caret positioning bug in the hex editor.
12. Fixed a bug in the full text search used by the hex-editor.
13. Minor bug fixes.

## Version 3.1.6

Release Date: 8th September 2011

1. Enhanced chip support.
2. Added an option to enable/disable the customized Batronix window decoration.
3. Improved multi programmer support.
4. Minor bug fixes.

## Version 3.1.5

Release Date: 1st September 2011

1. Enhanced chip support.
2. Added Danish software localization.
3. Software startup performance further increased.
4. User specific chip offset and split options will remain when selecting a different chip.
5. New button implemented to reset chip options to default settings.
6. Added a checked multi file mode button to the multi file list items. It's intended as an additional possibility to quit the multi file mode and switch back to the single file mode.

7. Improved chip auto identify feature.
8. Unnecessary firmware path/date message box at BX48 updates removed.
9. Minor bug fixes.

## Version 3.1.4

Release Date: 24th August 2011

1. Enhanced chip support.
2. Added a chip auto identify button to the toolbar of the programmer control (shown and used in production mode).
3. Software startup performance improved.
4. Fixed a bug at 27C322 chips.
5. Fixed a bug concerning the display of the chip options in the "Read Chip" mode. After the read or verifying of a chip finished the red chip options text will be updated immediately now and won't wait for opening the chip options dialog anymore.
6. Fixed a bug which caused doubled reload questions. When a file on a slow disk (e.g. connected via network) was opened in the Hex-Editor and it was changed from a external software Prog-Express asked to reload the file twice.
7. Fixed an insignificant UI graphics issue that occurred on Windows 98SE.

## Version 3.1.3

Release Date: 9th August 2011

1. Changed the behavior of the add button in the »Multi-File-Mode« (MFM). From now on it firstly shows an open file dialog instead of adding an empty entry.
2. From now on the added items to the file-List in the »Multi-File-Mode« (MFM) will be initialized with the next free buffer offset.
3. Fixed a bug concerning the display of a wrong data range at the info area on the open file button.
4. Added a "do not ask again" checkbox for the override warning dialog.
5. Changed the presentation format of the shown date/time of the last modification on the open file button. It now uses local time instead of universal time.
6. Fixed the display of the data range of empty files.

## Version 3.1.2

Release Date: 22th July 2011

1. Enhanced chip support.
2. Fixed a drawing issue concerning to the hot state of the multifunction button control.
3. Removed (for future improvements) the similar handling behavior of left and right click in the multifunction button.
4. Added a new button to the file chooser user control. On activation it adds some extra space to quickly access things like the checksum, file type and data range.

5. Added a new button within the new extra space (see preceding point) to quickly open the dialog for the OS dependent file properties.
6. Added »Multi File Mode« (MFM) as new source input. With this mode it is possible to create a virtual input buffer out of a list of files. So it's now easy to merge an input out of multiple files without the need of an external tool.
7. Revised some localized strings.
8. Added decimal marker to the data range string in the status bar to improve the readability.
9. Fixed a bug with chip auto identify at 89C microcontrollers.
10. Fixed a bug which can cause an exception when opening the chip browser.
11. Fixed a bug in the production mode, which could occur by the use of individual chip settings for the used programmer in cluster mode on an global set chip.

## Version 3.1.1

Release Date: 13th July 2011

1. Enhanced chip support.
2. Fixed a bug in search/replace function in Hex-Editor mode. Search on 16 and higher bits/word modes with both byte orders (big/little endian) works properly now.
3. Fixed a bug in chip read methods for GAL chips. Some bits were read wrong while programming and verifying GAL chips worked properly.
4. Added printing facilities to the hex editor.
5. Fixed a bug that prevents the input of mathematical and currency symbols in the text edit area of the hex-editor.
6. Fixed an unwanted behavior of the hex editor that occurred on the attempt to open the find/replace dialog while a huge range of bytes is selected.
7. Improved parsing of pasted text into the hex editor.
8. Added some localized strings.
9. Disabled progress bar animation for finished jobs to archive a cleaner UI experience.
10. From now on the hex editor will directly open the saved file (if a file path was given) when a chip is read through the »read mode«.
11. Fixed an unnecessary and annoying warning message that occurred on multiple launches of the updater.
12. Fixed a bug addressing an erroneous caret positioning of the number edit box.

## Version 3.1.0

Release Date: 17th June 2011

1. Enhanced chip support.
2. NAND flash support added for BX48 programmer.
3. ECC Hamming error detection and correction added.
4. Accelerated chip empty check, read and programming methods.
5. Fixed a bug in the hex editor concerning the highlighting of modified bytes after an applied range operation on a huge file.

6. Fixed a bug in the hex editor that may cause an arithmetic overflow exception by the calculation of the caret position for a huge file.
7. Fixed a bug in the hex editor that may cause a force an unwanted caret visibility in decimal and binary view during a scroll operation.
8. Added possibility to abort long lasting data range operations for the hex editor.
9. Updated and added some localized strings.
10. Fixed a stack overflow possibility in the hex editor that could be triggered by intensive use of different range functions on huge files.
11. Improved the matching and parsing of pasted data from the clipboard into the hex editor.
12. Removed the undesired automatic creation of a log file on the desktop introduced by Revision 9.
13. Removed a lot of nowadays unnecessary trace messages.
14. Fixed the undesired ignoring of the space key in hex editor on Linux and Mac.
15. Fixed the wrong code page using for appended characters in the hex editor.
16. Fixed a »library not found« error that occurred on Mac OS X 10.5.x and earlier.
17. Fixed a bug that caused a wrong deletion behavior by the use of the delete key in the change selection textboxes underneath the hex editor.
18. Fixed a bug that could cause the computer to run out of memory by the use of the »fill selection with random values« feature on huge files in the hex editor.
19. Increased maximum byte count for the »fill into« feature to 64 Gigabyte. Now it is much easier to create and edit huge files with the hex editor.
20. Added alternating for the address column of the hex editor to improve its readability.
21. Fixed a bug in the address context menu of the hex editor concerning its open/close behavior.
22. Removed UI flickering that occurred by dragging the »words per line« of the hex editor.
23. Fixed a disfigurement concerning to the visibility of the caret of the hex editor.
24. Changed the visibility of the hex editor scrollbars. Now there are shown on demand.
25. Added clipboard context menu to numeric entry box.
26. Updated some older icons and GFX.
27. Fixed undesired file change observation initiated by the diff tool.
28. Fixed a bug that caused a breakdown of synchronized scrolling feature.
29. Fixed a bug that may cause a malfunction in the determination of the selected word count in some situations.
30. Fixed a bug that may cause a malfunction of the »highlighting modified bytes« feature by the use of some hex file formats.
31. Removed an unwanted padding above the top element in the dropdown list from a combo-box control. This issue occurred just on Linux and Mac OS.
32. Improved management of temporary files.
33. Fixed miscellaneous minor bugs.

## Version 3.0.9

Release Date: 12th May 2011

1. Enhanced chip support.
2. Added Chinese manual.

3. Applied significant performance improvements for the Linux and Mac version through well chosen optimizations on the data layer.
4. Removed the need for a precompiled SQLite library for OpenSuse.
5. Added support for the x64 (x86_64) architecture of OpenSuse.
6. Added the Jedec file extension "JDC".
7. Added a new information dialog that is shown to the user on the attempt to activate the diff view of the hex editor without a comparable data source.
8. Improved the pasting strategy of text from the clipboard into the hex editor. The hex editor now automatically chooses between different paste algorithms to archive a more suitable and expected result.
9. Changed the format of copied text out of the hex editor into the clipboard. From now on the hex editor copies the visible and selected data words of the focused view into the clipboard. Through this we want to improve the interoperability with other software. But the old version is still available through the new command »copy formatted«.
10. Added the new command »copy formatted« to the edit and context menu of the hex editor. Take a look at the previous point for more information about it.
11. Added and updated localized strings.
12. Improved the mouse selection of the hex editor do gain a more expected selection behavior.
13. Fixed a disfigurement that occurs on the attempt to append a new word to the end of a hex editor document with already selected bytes.
14. Fixed a bug that caused the disappearing of the address submenu text caused by a change of the user interface language.
15. Fixed a bug in the data layer that caused among other things a malfunction of the »read additionally to active hex editor« option in hex editor mode.
16. Reduced the user interface flickering on Windows OS that occurred on a mode change of the software.

## Version 3.0.8

Release Date: 21th April 2011

1. Enhanced chip support.
2. From now on the caption text above the numeric box for adjusting the number of copies in production mode will be changed from "copies" to "copy sets" if the user chooses to use separate chips, options or files for the connected programmer.
3. Fixed a bug that causes a malfunction of the "execute a single process" buttons in the read mode of Prog-Express. This bug occurred mostly on new initial installations.
4. From now on the caption text of the process button will show a state depending text of the action that will be raised, when a user invokes the button.
5. Fixed a little user interface drawing issue that occurred on some computers by resizing the main window.
6. Fixed a few insignificant drawing issues due to internal state changes.
7. Changed the behavior of the dropdown menu used for the »choose programmer«, »choose chip« and »choose file« buttons. From now it won't remove the focus from the main window on opening.

8. The dropdown arrow button of the »choose programmer« button will no longer be shown if the overall count of connected programmers is lesser than or equal to one.
9. Increased the minimum width of the main window to 575 pixels. This new width prevents an ugly overlapping of the Prog-Express logo onto the top menu buttons.
10. On a mode change the dockable windows (e.g. log window) will automatically collapse if the window is not big enough to fit all the contents.
11. Removed the »bold« font style from the choose x buttons to improve the importance of their headline.
12. From now on chips that are read through the normal read mode (with disabled save to file and enabled show in hex editor step) are named with a name derived from the used chip instead of an ordinary temp file name.
13. Normalized the dimensions and the look `n feel of the buttons on the serial number options dialog.
14. The number entry box now allows also the entry of hex numbers with simultaneously pressed shift modifier key for the letters [a-f].
15. Fixed a disfigurement concerning the vertical scrolling of the hex editor triggered by some upward caret movements.
16. Fixed a bug that occurred on the attempt to save a »read only« tagged file under a new file path.
17. Improved the performance of the random number generation used by the hex editor.
18. Improved the performance of the value filling for the hex editor.
19. Fixed a memory leak within the GUI renderer.
20. Fixed a bug within the hex editor that triggered an unwanted selection change by opening the context menu in certain situations.

## Version 3.0.7

Release Date: 18th March 2011

1. Enhanced chip support.
2. Fixed some remote control bugs. The remote control access feature worked at Prog-Express V3.0.6 only after Prog-Express was started completely. Furthermore starting the same remote control file several times or using remote control files with more than one run command didn't work properly.
3. Enabled the splash screen on Mac version.
4. Fixed some GUI drawing and layout issues on Mac and OpenSuse.
5. The »Watch software introduction video« button on the start page now works also on Mac.
6. Fixed the title bar drawing issue of the serial number and chip option dialog on Mac, by replacing the toolbox dialog forms with normal window forms.
7. Added Batronix branding to the deployment disk image (*.dmg) for Mac.

## Version 3.0.6

Release Date: 10th March 2011

1. Enhanced chip support.

2. New software language: Prog-Express supports simplified Chinese now.
3. Greek, Portuguese and Turkish localizations updated.
4. Added the hex file format »ASCII Space«. It is used as export format from stage lighting and effect software like DMX-Configurator developed by DMX4ALL.
5. Additionally calibration bytes supported in the ATtiny microcontroller chip options.
6. Fixed a bug in the data reading layer for the visualization of unchanged bytes from text based hex files like Intel-Hex and Motorola-S-Record files.
7. Data read from a chip and newly opened hex files will no longer be plotted as modified in the Hex-Editor visualization.
8. Switching between multiply Hex-Editors while a reading or programming process runs won't hide the progress bar anymore.
9. Fixed a blemish overwriting of a label in a dropdown menu located at the "others" toolbar.
10. Smaller bug fixed in the difference visualization tool.

## Version 3.0.5

Release Date: 15th February 2011

1. Enhanced chip support.
2. Updated Finnish, Greek, Hungarian, Norwegian and Spanish language packs.
3. Improved read and programming method for LPC chips.
4. Fixed a bug concerning the Prog-Express Chip Tuner module. The engine map edit tool works properly again.
5. Replaced obsolete udev parameters to avoid unattractive boot warnings on Linux.
6. Fixed all debian policy violations for the Ubuntu distribution package.

## Version 3.0.4

Release Date: 28th January 2011

1. Enhanced chip support.
2. New feature for ATtiny and ATmega: The read only calibration bytes can be automatically read out and copied to a buffer address before programming starts. The copy buffer address can be set in the chip options dialog.
3. Improved the Intel Hex load method to allow opening non standard Intel Hex files also.
4. Fixed a bug concerning opening Prog-Express with a double click onto a project file.

## Version 3.0.3

Release Date: 25th January 2011

1. Optimized the performance of the checksum calculations.
2. Added an automatic change of the selected chip and the selected programmer feature for opened Hex-Editors through the read mode of Prog-Express.
3. Improved the control of programming processes and its cancelation in production mode.
4. Fixed a bug in the internal management of the recent file and recent chip lists.

5. Changed the ordering of some menu-items to archive a unique look and feel.
6. Removed the option to turn of the checksum calculation. This switch is no longer necessary due to our latest performance optimizations.
7. Fixed an internal file handling bug that occurred on the attempt to write read data to a locked file.
8. Improved the handling of special memory in the differences viewer for raw data.
9. Added a warning message that is shown on the attempt to connect a programmer with a newer firmware than expected by the software. This improves and hopefully avoids fault diagnostics that could occur through a downgrade to an older software version.
10. Fixed some graphics issues for "right to left" layouts like used in the Arabic localization.
11. Updated third party libraries used by Prog-Express.
12. Updated icons and pictures to improve the self-explanatory of Prog-Express.
13. Fixed a bug concerning the visualization of modified bytes in Hex-Editor documents.
14. Fixed a bug concerning the visibility designation of the some menu items.
15. Fixed some minor flaws in the deb package.
16. Created initial rpm package for distribution to Fedora.
17. Deactivated the automatic dropdown closing behavior of the read process and program process buttons in the Hex-Editor. Now it is much easier to change the process steps.
18. Fixed a bug concerning a wrong shortcut behavior in the Mono environment.
19. Fixed a bug concerning to the use of a wrong codepage for 8-Bit characters in the Mono environment.
20. Fixed a bug concerning the detection of the current localization in the Mono environment.
21. Fixed a bug concerning the wait cursor in the Mono environment.
22. Fixed an issue concerning to the initial layout of the GUI in the Mono environment.
23. Fixed minor bugs.

## Version 3.0.2

Release Date: 6th January 2011 (released only as beta for Ubuntu/Linux)

1. Fixed a missing dependency in the deb package.

## Version 3.0.1

Release Date: 5th January 2011 (released only as beta for Ubuntu/Linux)

1. Added an udev rule to grant non-root users the permission to use hot plugged programming devices on Linux.

## Version 3.0.0

Release Date: 5th January 2011 (released only as beta for Ubuntu/Linux)

1. Fixed a lot of compatibility issues to run Prog-Express in a mono environment on *NIX operating systems. This is the first version of Prog-Express that runs on another OS than Windows (Ubuntu) and is the initial task to gain multi-platform support.

2. Created a new library to access the programming devices through libusb.
3. Created initial deb package for distribution to Ubuntu OS.

## Version 2.8.0

Release Date: 3rd December 2010

1. This version is bundled with:
    a. Firmware version 1.21 for BX48 Batego
    b. Firmware version 2.24 for BX40 Bagero, BX32P Barlino and BX32 Batupo
2. Added a "Clear All Items" button at the end of the recent files and last used chips list.
3. Added a response message "programmer is busy" for a "Chip Auto-Identify" click while the chosen programmer is already in use in another mode.
4. Limited the maximum entry count in the Log View from unlimited to 100 due to performance issues.
5. Added support for 28F200/400/800 and further chips to the BX48 Batego.
6. Replaced the animated buttons in program/copy/read and production mode by faster ones due to upcoming future improvements.
7. Replaced the update program with a new version that provides the ability to choose custom proxy-server settings.
8. Fixed a bug, which prevented reading of 16 bit chips on the obsolete Batronix USB Chip programmer.
9. Fixed a bug, which prevented the use of huge addressed (>= 2 GByte) Intel Hex files in all modes expect the Hex-Editor mode.
10. Fixed a bug, which emits an error message by the use of the "chip options" for some MCS-51 microcontrollers.
11. Fixed a bug, which emits an exception when the used programmer setting is changed in hex editor mode while a programmer is reading a chip.
12. Replaced the icons in program/copy/read and production mode to fit the already replaced icons in Hex-Editor mode.

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