

LJ4Boost

Oliver Hitz

COLLABORATORS

	<i>TITLE :</i> LJ4Boost		
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REVISION HISTORY

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Chapter 1

LJ4Boost

1.1 Welcome to LJ4Boost Printer Driver Package

LJ4Boost

An Amiga printer driver especially designed for
Hewlett-Packard LaserJet 4+ and compatibles.

Version 1.2
February 19, 1996

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What's new in V1.2?

License

Disclaimer
Copyright And Distribution

Package Contents

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1.2 What's new in this version?

What's new in V1.2?

-> No more blank pages (with most programs, hopefully!)

In programs such as FinalWriter or WordWorth, the right margin settings now no longer produce blank pages.
For the 'real' settings, see Margins .

-> LJ4Boost-Prefs sets printer configuration

LJ4Boost-Prefs now initializes the printer upon quitting.
No more 'manual' inits required! See SetPrinter .

-> Support for alternate paper sources

Alternate paper sources may now be selected. Useful for people having more than one paper feed! See Paper Source .

-> End-Of-Line-Wrap switch

Useful for people printing plain text files.
See EOL-Wrap .

-> Italian catalog files

Many thanks go to Francesco Dipietromaria.

-> Catalog source files provided

Now everybody can make his own catalog files!

-> Bug fixes... :-)

1.3 Disclaimer

Disclaimer

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1.4 Copyright And Distribution

Copyright And Distribution

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1.5 Package Contents

Package Contents

This version of the LJ4Boost package consists of the following files:

Directory LJ4Boost/	
LJ4Boost-Install	Installation script V1.2
LJ4Boost-Register	Registration program V1.02
LJ4Boost.guide	AmigaGuide documentation V1.2
Directory LJ4Boost/Devs/Printers/	
LJ4Boost	Printer driver V1.2
Directory LJ4Boost/Locale/Catalogs/	
deutsch/lj4boostprefs.catalog	German catalog for prefs editor V1.2
français/lj4boostprefs.catalog	French catalog for prefs editor V1.2
italiano/lj4boostprefs.catalog	Italian catalog for prefs editor V1.2
Directory LJ4Boost/Prefs/	
LJ4Boost	Preferences Editor V1.2

1.6 Introduction

Introduction

LaserJet printers are very powerful and with today's prices always more people can afford them. But having a printer doesn't mean using it, since without an adequate printer driver nothing works.

LaserJet printers are usually shipped with printer drivers for systems like MS-DOS, Windows or Macintosh, but never for Amiga. That's one reason why LJ4Boost has been written.

LJ4Boost is an attempt to provide a printer driver that is both standard, i.e. it deals with all standard Amiga applications, and powerful so that printer specific features may be used without 'hacking' or introducing new standards.

Although at the beginning LJ4Boost was written for HP LaserJet 4L printers, it proved to work well with other models. Support for non-4L-specific features is getting better with every release. (see Compatibility)

1.7 Features

Features

This printer driver package offers a large palette of features:

- > highly optimized assembler-written Amiga printer driver
- > shorter than any other printer driver
- > support of MS-DOS symbol sets
- > support of HP-GL/2 graphics
- > highly optimized compression routines for shorter graphics output
- > automatic/manual paperfeed switch
- > EconoMode switch
- > documentation in AmigaGuide format
- > style-guide compliant, font-sensitive and localized prefs editor
- > style-guide compliant registration program
- > MagicWB style icons (optional)
- > installation using standard 'Installer'

1.8 Requirements

Requirements

Besides an Amiga Computer with at least OS 2.0 you will need a HP LaserJet compatible printer.

1.9 Compatibility

Compatibility

LJ4Boost will probably work with any printer that supports the PCL5 printer language. Such printers are all printers of the HP LaserJet 4 and 5 family.

1.10 Installation

Installation

The installation of this printer driver package is fully automatically using Commodore's 'Installer' program. Make sure 'Installer' is available on your system, as it is not part of this archive.

If you have installed MagicWB\$^1\$ on your system, you can choose MagicWB icons during the installation.

After the installation, start the Printer-Preferences and select LJ4Boost to activate it...

\$^1\$ MagicWB is Copyright © 1992-1994 by Martin Huttenloher

1.11 Installation Of The Printer Driver

Installation Of The Printer Driver

The printer driver is copied into the DEVS:Printers/ directory by the installation program. To activate it, load the Printer-Prefs and select the LJ4Boost printer driver. For more information on the Printer-Prefs, refer to your Workbench manual.

1.12 Using The Printer Driver

Using The Printer Driver

There is not much to say about using the printer driver. In general, you won't have much to do directly with the printer driver. It is used automatically when you tell your programs to print something.

The printer driver uses the 'ISO 8859/1 Latin 1' built-in symbol set, when in Amiga (normal) mode. This makes it a lot shorter, because there is no need to include a table with character replacements.

In MS-DOS mode, the printer driver uses the 'PC-8 Code Page 437' symbol set.

Graphics Printing

The density settings for graphics printings are as follows:

Density Number	1	2	3	4	5	6	7
Graphics Density	75dpi	100dpi	150dpi	300dpi	300dpi	300dpi	600dpi

The 600dpi setting (7) is not supported by the HP LaserJet 4L printer, but I added it here so that owners of other LaserJet 4 printers may also use this printer driver. (Or at least try to use it...)

When selected in the preferences editor, the printer driver tries to reduce the amount of data to transfer by compressing it. This may result in speed improvements. (Compression And Speed)

Escape Sequences

For a detailed explanation of the escape sequences supported by this printer driver, see [Escape Sequences](#) .

Page Sizes

See [Page Sizes](#) .

1.13 Page Sizes

Page Sizes

AmigaDOS offers various page sizes in its Printer preferences. While some of them are supported by the LaserJet, others aren't.

To be able to select ALL page sizes supported by the LaserJet, all sizes in the Printer preferences that are not supported by the printer are treated as 'Custom' and are replaced by the one selected in the LJ4Boost-Preferences.

The following list shows what sizes are supported both by the LaserJet AND AmigaDOS:

US_LETTER, US_LEGAL, EURO_A4

Selecting the following page sizes will cause LJ4Boost to pick the page size selected in the 'Page Size' gadget in LJ4Boost-Preferences:

N_TRACTOR, W_TRACTOR, CUSTOM, EURO_A0, EURO_A1, EURO_A2, EURO_A3, EURO_A5, EURO_A6, EURO_A7, EURO_A8

Correct Borders

Some people have reported trouble concerning the borders when printing with programs such as FinalWriter or WordWorth. Here is a list with the correct border sizes:

Page size	Left & Right	Top & Bottom
Executive	0.25" 6.35mm	0.17" 4.23mm
Letter	0.25" 6.35mm	0.17" 4.23mm
Legal	0.25" 6.35mm	0.17" 4.23mm
A4	0.24" 6.01mm	0.17" 4.23mm
Monarch Envelope	0.25" 6.35mm	0.17" 4.23mm
COM-10 Envelope	0.25" 6.35mm	0.17" 4.23mm
Intl DL Envelope	0.24" 6.01mm	0.17" 4.23mm

Intl C5 Envelope	0.24" 6.01mm	0.17" 4.23mm
Intl B5 Envelope	0.24" 6.01mm	0.17" 4.23mm

Note: These are the ABSOLUTE MINIMUM values. Please add some small amount to the bottom border, as even a LaserJet printer does not work that exactly.

1.14 Escape Sequences

aRIS	ESCc Printer reset
aRIN	ESC#1 Printer reset, set settings from LJ4Boost-Prefs, set AMIGA symbol set, Courier typeface, line spacing and margins (as set in the prefs)
aIND	ESCD LF (without CR)
aNEL	ESCE LF and CR
aRI	ESCM Reverse LF and CR
aSGR0	ESC[0m Underline off, italic off, bold off
aSGR3	ESC[3m Italics on
aSGR23	ESC[23m Italics off
aSGR4	ESC[4m Underline on (floating)
aSGR24	ESC[24m Underline off
aSGR1	ESC[1m Boldface on
aSGR22	ESC[22m Boldface off
aSFC	ESC[nm (30<=n<40)
aSBC	ESC[nm (40<=n<50) no effect
aSHORP0	ESC[0w PICA (10 cpi)
aSHORP2	ESC[2w ELITE (12 cpi)

aSHORP1	ESC[1w PICA (10 cpi)
aSHORP4	ESC[4w FINE (16 cpi)
aSHORP3	ESC[3w PICA (10 cpi)
aSHORP6	ESC[6w 8 cpi
aSHORP5	ESC[5w 10 cpi
aDEN6	ESC[6"z
aDEN5	ESC[5"z
aDEN4	ESC[4"z
aDEN3	ESC[3"z
aDEN2	ESC[2"z
aDEN1	ESC[1"z no effect
aSUS2	ESC[2v
aSUS1	ESC[1v
aSUS4	ESC[4v
aSUS3	ESC[2v
aSUS0	ESC[0v no effect
aPLU	ESCL Half LF reverse (with CR)
aPLD	ESCK Half LF (with CR)
aFNT0	ESC(B Courier typeface
aFNT1	ESC(R Letter Gothic typeface
aFNT2	ESC(K
aFNT3	ESC(A
aFNT4	ESC(E
aFNT5	ESC(H
aFNT6	ESC(Y
aFNT7	ESC(Z
aFNT8	ESC(J
aFNT9	ESC(6
aFNT10	ESC(C no effect
aPROP2	ESC[2p
aPROP1	ESC[1p
aPROP0	ESC[0p

aTSS	ESC[n E no effect
aJFY5	ESC[5 F
aJFY7	ESC[7 F
aJFY6	ESC[6 F
aJFY0	ESC[0 F
aJFY2	ESC[2 F
aJFY3	ESC[3 F no effect
aVERP0	ESC[0z 8 lpi
aVERP1	ESC[1z 6 lpi
aSLPP	ESC[nt Set form length n
aPERF	ESC[nq
aPERF0	ESC[0q no effect
aLMS	ESC#9
aRMS	ESC#0
aTMS	ESC#8
aBMS	ESC#2 no effect
aSTBM	ESC[n1,n2r Set top and bottom margins
aSLRM	ESC[n1,n2s Set left and right margins
aCAM	ESC#3 Clear margins (set as set in the preferences)
aHTS	ESCH
aVTS	ESCJ
aTBC0	ESC[0g
aTBC3	ESC[3g
aTBC1	ESC[1g
aTBC4	ESC[4g
aTBCALL	ESC#4
aTBSALL	ESC#5 no effect
aEXTEND	ESC[n"x Extended commands n: 1 Load ENV:LJ4Boost.prefs (NOT set it - to set it, use aRIN command!) 2 AMIGA symbol set (ISO 8859/1 Latin 1) 3 MS-DOS symbol set (PC-8 Code Page 437) 10 Enter HP-GL/2 mode 11 Enter Normal (PCL) mode

aRAW ESC[n"r
Next n characters are RAW (e.g. for sending ESC sequences)

1.15 MS-DOS Mode

MS-DOS Mode

This printer driver also supports printing of MS-DOS characters. The MS-DOS mode is invoked by sending ESC[3"x to the printer driver. If you for example want to print a text from an MSDOS machine, simply put this sequence in front of your text and send it to PRT:.. (The only thing you have to pay attention is the line termination. In the current version, this printer driver adds a CR to each LF.)

When in ANSI mode, all characters are printable (except 0, 7-15, 27). To quit the it and to return to the normal AMIGA mode, send ESC[2"x.

By default, the printer driver is in AMIGA mode when the printer.device is opened.

1.16 HP/GL-2 Mode

The HP-GL/2 Mode

This printer driver supports the powerful HP-GL/2 (HP-Graphics Language) mode of the printer. If you send ESC[10"x, the printer will be in HP-GL/2 mode until ESC[11"x.

HP-GL/2 is a graphics language mainly designed for plotters. In HP-GL/2 mode graphics are no longer printed as raster images. Instead of drawing a whole picture in the memory of the computer and then sending this as a raster image, it is possible to tell the printer to draw the picture in its memory. Of course this doesn't work for pictures such as scanned photographs, but for other graphics, such as output of CAD programs, it will result in GREAT speed improvements.

If you have programs that offer HP-GL/2 output, simply tell it to print its output to a file and then insert ESC[10"x at the beginning and ESC[11"x at the end and send it to PRT:..

Maybe in future versions of this package there will be a custom-designable DOS-Handler that allows to switch into HP-GL/2 mode when e.g. printing a document to PLT:...

NOTE: When switching to HP-GL/2 mode and back, the cursor position is NOT changed.

1.17 Installation Of The Preferences Editor

Installing The Preferences Editor

The preferences editor is installed automatically with the installation script. It is copied to the SYS:Prefs-directory, where all the other preference editors are located.

1.18 Getting Started

Getting Started

The preferences editor may be started either from Shell or from Workbench by double clickin' on its icon.

It is localized, font-sensitive and exactly designed like the standard Workbench preference editors.

Workbench Startup

Supported tooltypes:

```
ACTION=( EDIT | USE | SAVE )
CREATEICONS=( YES | NO )
PUBSCREEN=<public screen name>
SETPRINTER=(YES|NO)
```

Shell Startup

The template for starting it from the Shell looks as follows:

```
FROM,
EDIT/S,
USE/S,
SAVE/S,
PUBSCREEN/K
NOSETPRINTER/S
```

1.19 FROM

Specifies that an saved settings file will be loaded into the editor. This file has to be generated by the menu item 'Save As'.

1.20 CREATEICONS YES

Specifies that an icon is saved when the configuration is saved. Default is OFF.

1.21 CREATEICONS NO

Specifies that no icon is saved when the configuration is saved. This is the default setting.

1.22 EDIT/S

Specifies that you want to open the editor window to edit a setting. This is the default setting.

1.23 USE/S

Loads in a configuration file and saves it as current setting. The editor window isn't opened.

1.24 SAVE/S

Loads a configuration file and saves it as default setting. The editor window isn't opened.

1.25 PUBSCREEN/K

This option lets you specify the screen the editor window opens on. Default is 'Workbench'.

1.26 SETPRINTER

When you quit the preferences editor, the new values are automatically sent to the printer. To disable this, use the tooltype:

```
SETPRINTER=NO
```

when starting the prefs editor from Workbench, or the parameter

```
NOSETPRINTER
```

when starting it from the CLI.

You may also use the switch "Set Printer?" in the "Options" menu to enable/disable this setting.

1.27 Using The Preferences Editor

Using The Preferences Editor

The preference editor has been programmed according to the style-guide. It works exactly like any other Workbench preference editor, so it is very easy to handle.

Explanation of the buttons

- Copies
- Paper Source
- EconoMode
- Auto Continue
- Density
- Image Adapt
- Page Protect
- REt
- Custom Page Size
- End-of-line Wrap

Compression

- Save
- Use
- Cancel

Explanation of the menus

- Project
 - Open...
 - Save As...
 - About
 - Quit
- Presets
 - Reset To Defaults
 - Last Saved
 - Restore
- Settings
 - Create Icons?
 - Set Printer?

1.28 Copies

Here you can enter how many copies you want to print. This doesn't mean that the data has to pass multiple times from the computer into the printer, all it does is to tell the printer how many pages he should print.

1.29 Paper Source

This switch only works in conjunction with the PaperType switch in the

standard preferences. For the paper type SINGLE, this switch has no meaning, the paper is always fed from the main paper tray. To specify a paper source different from the main one, you have to select FANFOLD as paper type. Note: Make sure the paper source you have selected here is available on your printer...

1.30 Econo Mode

This is a special feature of the HP LaserJet 4L. Selecting this will force the printer to reduce the used toner by 50%. This is a very useful switch if you don't need BLACK and SHARP images, e.g. for testing a printer driver... (The costs per page are also reduced by 50%)

1.31 Auto Continue

This option forces the printer to continue automatically after errors have occurred. If 'Auto Continue' is disabled, the printer will wait for you to press the button before he continues.

1.32 Density

This lets you change the density settings. '1' is light (uses less toner) and '5' is dark (uses big amounts of toner). This option is useful when printing on folios, as sometimes they need to be very DARK.

1.33 Image Adapt

This option controls the printer's internal data compression mechanism. With 1MB of printer memory, you aren't able to hold one whole page in memory. With this switch set to 'On', all data is compressed in the printer to fit into it's memory. The disadvantage of this is, that you loose details. That means, that the output won't look exactly like the input. (It will be less sharp.)

1.34 Page Protect

When printing very dense or complex images, the printer may be too slow to handle input and output at the same time. If you select 'On', the printer will first save the whole page in it's memory before printing it. Choose 'Auto' if you only have 1MB of printer memory, as you won't be able to hold a whole page in memory. Choosing 'Off' gives you the best performance, but there can be errors from time to time, dependent from the complexity of your output.

1.35 REt

Resolution Enhancement technology (REt) is a feature that enhances the resolution of your printer. This is done by refining pixels with smaller pixels. To gain optimal quality, use this option together with Density.

1.36 Page Size

This gadget is used to specify what page size is used when the one selected in the Printer preferences is not supported by LJ4Boost. For a list of supported page sizes see Page Sizes.

1.37 End-of-line Wrap

By default, "End-of-line Wrap" is disabled. This means that text that exceeds the width of a page is truncated. Enabling this switch causes the printer to add a line feed when the line doesn't fit onto the page. Please note that this way the line-counter of the program that prints and the printer-internal counter differ and so there might be blank pages. So the best thing is to look for programs that to eol-wrapping themselves.

1.38 Compression

This controls which compression methods will be used for graphics printing. If you select more than one compression method, LJ4Boost will compress each line using all selected methods and sent the shortest line to the printer.

For more about compression : Hints
Compression And Speed

1.39 Save

This button saves the current settings as your default setting and quits the editor.

1.40 Use

This button saves the current setting as your actual setting that remains active until you reset your computer. It quits the editor.

1.41 Cancel

This button quits the editor without changing anything in the active settings.

1.42 Open...

This menu item lets you load a setting that you have saved to disk some time before.

1.43 Save As...

This menu item lets you save a setting to disk. If you have activated the Create Icons? menu, then an icon will be added to your file.

1.44 About

Probably the most important menu point...

1.45 Quit

Quits the editor without changing anything.

1.46 Reset To Defaults

Resets the current settings to the default system settings. These settings cannot be modified.

1.47 Last Saved

This menu item loads in the last saved configuration settings saved with the Save button.

1.48 Restore

Loads the currently active settings.

1.49 Create Icons?

If this menu item is checked, then everytime you save a configuration using the Save menu item, the icon called 'ENV:Sys/def_pref.info' is added to the file. Note that NO icon is saved if you just press the Save button.

By default this option is OFF unless you specify the CREATEICONS tootype when starting it from the Workbench.

1.50 Hints

Hints

Compression

The compression modes used by the HP LaserJet 4L are only very simple ones. Together with the compression routines in the printer driver, they can improve the time required to print graphics even on a normal 68000 based system. (Compression And Speed)

1.51 Compression And Speed

Compression And Speed

It is difficult to say whether compressing data results in big speed improvements or not. Everything depends on the data. The printer driver always cuts off all 0-bytes to the right of a line. This is done even if there is no compression selected, as this costs almost no time to do and the efforts can be great as often there are half-empty or even empty lines.

When there are a lot of similar lines to print, the best results are achieved using 'Delta Row' compression (only available in the registered version). This method only sends the differences between the current line and the previous one. When printing text in programs such as FinalWriter etc., the output is often much shorter than without compression.

If you would like to test the different compression methods, use the program 'cmd', which is part of the original Workbench distribution, to redirect the parallel.device into a file.

1.52 Questions And Answers

Questions And Answers

Q: About half a minute after I have exited LJ4Boost-Prefs, a requester pops up, telling me that there is a problem with printing, but I have never printed anything.

A: Upon quitting LJ4Boost-Prefs opens the printer.device and writes the new configuration directly into the printer. This may be disabled using the 'SETPRINTER' tooltype or the 'NOSETPRINTER' parameter on the command line.

Q: The printer ejects a blank page after each page I print using FinalWriter or WordWorth. What's wrong?

A: This is not a fault of LJ4Boost and also not of the word processing software. The problem is that you have set the wrong borders. Try using the borders that are given in the Page Size chapter of this document. If it still doesn't work, try to increase the bottom border.

Q: Why don't you add support for all the inbuilt typefaces of the HP LaserJet 4(L)?

A: The problem is, that only few of the inbuilt typefaces are fixed-width. Most of them are proportional width, what means that an 'i' is smaller than an 'm'. This causes a very good formatted text to look quite ugly, for example listings. If you really want to use proportional fonts, you better use a program like FinalWriter or WordWorth. Another problem is, that not all printers of the LaserJet4-family have the same typefaces built-in.

Q: Would it be possible to add a new switch to your LJ4Boost-Prefs that enables users to select another than the standard PAR: parallel port?

A: Everything is possible, but don't forget that this is a 'Printer Driver Package' and not a 'printer.device replacement'. The printer driver only has very, very limited control over the printer.device.

Q: Why don't you write a special optimized 68020 version of LJ4Boost?

A: LJ4Boost is written in pure assembly language. There are only a few routines that could be made (slightly) faster using '020+ code. In fact most of the time gets lost in the printer.device.

Q: Why should I pay 20\$ for a program like yours?

A: Although LJ4Boost is only a small program, its development has taken weeks and uncountable sleepless nights. The registration fee is not that high if you use LJ4Boost regularly. (Tell me if you find any other non commercial printer driver with the same features).

1.53 Registration

Registration

This printer driver package is SHAREWARE. This means you HAVE to pay for it if you use it.

The registration fee is SFr 20, DM 20 or US\$ 20. Do only send cash. Otherwise there is no guarantee that you will receive an answer.

If you register, you will receive a labeled disk with the latest version of the 'LJ4Boost Printer Driver Package', along with a personal keyfile that allows you to use future versions of this program. For more information on where and how to get updates, see Updates.

Please do ONLY register with the registration utility provided in the original distribution. (Let's hope it works on all Amigas...)

[Click here to start the registration utility NOW](#)

Please allow 2-4 weeks for delivery, depending on where you live.

*** THANKS TO EVERYBODY WHO HAS REGISTERED SO FAR ***

1.54 Updates

How To Reach The Author

Email: Oliver.Hitz@unifr.ch

Snail-mail: Oliver Hitz
 Weiermattweg 13
 3186 Düringen
 Switzerland

...or simply call: FriByte BBS and leave a message for Oliver Hitz.

- - -- ----* Up The Irons! *---- - - - -

So it shall be written - so it shall be done.

1.58 History

- V1.2 (19.02.96)
- LJ4Boost V1.2
 - every 'Form Feed' is now followed by a 'Carriage Return'
 - aSTBM sets the top margin ALWAYS to >= 2
 - top margin when printing graphics now ALWAYS 1/6 inch
 - under certain circumstances, Delta-Row compression did not work correctly, some parts were forgotten :-)
 - LJ4Boost-Prefs V1.2
 - did not run on 68000 (address error)
 - did not save the density setting (Thanks to Angelo Mantellini)
 - italian catalog (Thanks to Francesco Dipietromaria)
 - included .cd and .ct files -> everybody can make his own catalog files
- V1.1 (22.11.95)
- LJ4Boost V1.1
 - restructured some of the code
 - registered only: Delta Row compression
 - new mapping of paper sizes
 - fixed aSLRM bug
 - printing of blank lines is now much faster!
 - compression sequence is only sent when mode has changed
 - LJ4Boost-Prefs V1.1
 - rearranged compression gadgets
 - registered only: Delta Row compression gadget
 - custom page size gadget
 - fixed locale.library bug
- V1.04 (19.06.95)
- LJ4Boost V1.02
 - fixed a bug concerning the margins (Thanx to Dirk Vael)
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- LJ4Boost-Register V1.02
 - fixed minor bug

- V1.03 (10.05.95)
 - added MagicWB style icons (optional)
(Thanx to Martin Huttenloher for his permission)
 - LJ4Boost V1.01
 - better detection of FormFeeds (-> less blank pages...)
 - LJ4Boost-Prefs V1.03
 - caused Enforcer hits when requester was displayed and the window was not opened yet
(Thanx to Paul van der Heu)
 - used a function only available under OS3.0 and higher
(Thanx to Rene Amador)
 - LJ4Boost-Register V1.01
 - fixed bug!
(Thanx to Rene Amador)

- V1.02 (16.04.95)
 - LJ4Boost-Prefs V1.02
 - crashed when locale.library could not be opened
(Thanx to Alexander Schwenk)
 - added french catalog

- V1.01 (11.04.95)
 - LJ4Boost-Prefs V1.01
 - fixed bug in the tooltypes (didn't work properly)
 - fixed Enforcer hit

- V1.0 (06.04.95)
 - first public release

1.59 Future

Future

If there will be some future versions of this printer driver package, then the following features will probably be added:

- > customizable DOS-Handler (to create ANSI: or PLT:...)
- > multi-lingual documentation + registration utility
- > more catalogs (need your help!)
- > selectable code tables
- > better documentation (I know, it's getting catastrophic...:-())

...and many more. You can be sure of it!