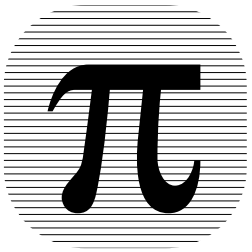

Paragon Innovations INC

LPRINT Version 2.3:
A PROGRAM LISTING UTILITY

USERS MANUAL
1001-01-001-2800 Rev 3

LPRINT.DOC

APRIL 20, 1995

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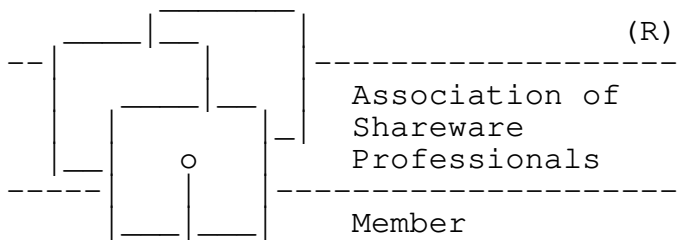

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0. REVISION LOG

REV	DESCRIPTION	ECO	DATE	BY
3	Updated to reflect changes in Release 2.3	-	April 20, 1995	LBD
2	Updated to reflect changes in Release 2.2	-	May 7, 1994	MRW
1	Updated to reflect changes in Release 2.1	-	Feb 21, 1994	HMW
0	Initial revision	-	Dec 14, 1993	HMW

1. APPROVALS

Author: s/ H. Michael Willey _____ Date: April 20, 1995 ___

President: s/ Michael R. Wilkinson ___ Date: April 20, 1995 ___

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2. INTRODUCTION

LPrint is a listing utility that allows you to take advantage of advanced graphics capabilities of PostScript® when printing software listings, or other plain text ASCII files. The basic features of LPrint include:

- Processes text files to allow printing on a PostScript® printer.
- Allows selection of any font and print size.
- Allows either portrait or landscape orientation of output.
- Properly handles embedded form feeds.
- Encloses printed text in a border with a title block.
- Prints your logo or company name in the title block.
- Automatically extracts the document number and title from the text file for the title block.
- Automatically retrieves a user name from the environment for the title block.
- Numbers pages in a "Page n of m" format.
- Counts words, lines and pages printed.
- Includes full path name of printed file in title block.

3. APPLICATION

This manual applies to Version 2.3 of LPrint, released on April 20, 1995. To ensure that you have the latest version of LPrint please send in your registration form, included in section 7 of this manual, as soon as possible.

4. USING LPRINT

4.1. PostScript® Printers

PostScript® is a graphic page description language developed by Adobe Systems Incorporated. The intent of PostScript® is to provide a common interface for all printers and display terminals that would free developers from having to write support code for every new device that becomes available on the market. This idea is often referred to as device independence.

PostScript® provides a true programming language that allows the application to completely describe the appearance of an output page. A PostScript® interpreter then converts this output to the primitive commands that produce the page. This is usually accomplished by providing the printer with a PostScript® interpreter that converts programs written to the printer into printed pages by directly driving the print mechanism. Another way to utilize PostScript® is to use a program such as Ghostscript that interprets PostScript® instructions and provides an output that is compatible with a number of different printers or display devices.

PostScript® performs best when it is run on a printer or display terminal with an embedded PostScript® interpreter. Using a PostScript® printer or display frees your computer from the tedious task of determining where every dot is placed on a page.

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When that task is performed by the printer, your computer can get on about the business of creating more data.

4.2. Installation

The distribution of LPrint contains the following files:

```
LPRINT.EXE      The LPrint program executable
LPRINT.DOC      Plain ASCII file containing this manual
LPRINT.PS       A PostScript version of this manual
REGISTER.DOC    The LPrint registration form
TITLEBOX.PS     The default "logo" for LPrint
SAMPLE.PS       An example graphic "logo" for LPrint
                   using PostScript drawing commands
SAMPLE1.PS      An example graphic "logo" for LPrint
                   using a scanned image
VENDOR.DOC      Information for shareware vendors
```

To use LPrint, copy LPRINT.EXE to any directory in your PATH, and copy TITLEBOX.PS to the root directory of your C drive. If you wish to place TITLEBOX.PS in a directory other than the root directory, be sure to put the command

SET LPRTITLE=*d:\titlepath*\TITLEBOX.PS

in your autoexec.bat file. In the above command *d* and *titlepath* are the drive and subdirectory path that TITLEBOX.PS is placed in. REMINDER: Commands placed in your autoexec.bat file do not take effect until your computer has been rebooted.

4.3. Operation

LPrint is a program that allows text files to be printed on a PostScript® printer. LPrint will put a border around the text and put a title block at the bottom, along with a copyright notice. The title block generated by LPrint contains quite a bit of information about the file being printed. Some of the data included in the title block includes:

- A company name or logo.
- The number of characters, words and lines of text in the file.
- The document number.
- A title for the document.
- Your name.
- The date and time that the file was last modified.
- The full file name as typed in on the command line.
- Each page is numbered in the format "Page n of m" where "m" is the actual number of pages in the document.

The contents of these fields can be controlled from the command line, the DOS environment, or from the file being printed.

The general format for using LPrint is:

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```
LPRINT [flags] [file...]
```

Where flags can be any combination of the following:

-Dx	Changes the destination printer device. X can be 1, 2, or 3 to represent LPT1, LPT2 or LPT3. The default is LPT1:
-Dstr	Changes the destination of the output to a file. str can be any fully or partially qualified DOS pathname.
-Esize	Expands tabs into spaces. size specifies the number of the width of tabs in spaces. Default is 8.
-Fstr	Changes the font for the listing. str can be any font currently available on the PostScript® printer. The default is Courier.
-K	Kills formfeed interpretation by LPrint. Normally every ASCII formfeed character causes the output of LPrint to begin on a new page. Using this flag will prevent LPrint from doing this.
-L	Landscape orientation. Setting this flag causes LPrint to print your file sideways on the page.
-M"msg"	This flag causes the copyright message printed at the bottom of the page to be "msg" instead of our copyright.
-N"docnum"	This flag places the text "docnum" in the document number field of the title block.
-Q	"Quick". This flag makes LPrint run a little faster at the expense of not filling in the word or line count fields in the title block.
-Ssize	Changes the size of the printed text. size is the new font size in points (1/72 inch). The default character size is 10 points, which is approximately equivalent to Elite typewriter text.
-T"title"	This flag changes the title printed in the title block to "title". The default is the name of the file being printed with the directory and drive information deleted.
-V	Verbose. This mode prints additional information about what LPrint is doing to STDERR.

The parameters "docnum", "msg", and "title" must be enclosed in double quote marks (") if they contain spaces.

LPrint can also get information from DOS environment variables. An environment variable can be set once, for example in your autoexec.bat file, and will be available to LPrint each time you run it. For instructions on setting environment variables refer to the documentation on DOS provided with your computer.

The environment variables recognized by LPrint are:

LOGNAME	The value of this environment variable will be printed on your title block to identify who the listing was generated by.
LPRCMD	This environment variable is used to set command line options that are used every time you invoke LPrint. The contents of this variable are identical to the flags described for the command line above.

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LPRTITLE This environment variable can be the filename of a PostScript® program that prints your company name or logo on each page. If this variable is not set, LPrint will look for the file C:\TITLEBOX.PS.

Some example environment variable settings are:

```
SET LOGNAME=Mike
SET LPRTITLE=D:\OURPS\XYZLOGO.PS
SET LPRCMD=-M"Copyright 1994 XYZ Corp"
```

In addition to being able to alter the appearance of LPrint output from the command line and the DOS environment, LPrint also scans your file for information to place in the title block. LPrint looks in the first 2048 bytes of your file for strings of characters that look like:

$TOKEN: data to be printed in the title block$

LPrint will use all of the characters between the colon (:) and the last dollar sign ($) and use it as the contents of the field described by TOKEN. The tokens currently recognized by LPrint are:

TITLE	This will be the large format title printed in the title block.
DOCNUM	This will be the document number printed on the title block.
MSG	This will replace the copyright message under the title block.

Some examples of token strings are:

```
/* $TITLE: My Program$ */
char *copyright="$MSG: Copyright XYZ Corp 1994";
$DOCNUM: 1234-12-123-1234$
```

5. QUESTIONS AND ANSWERS

What does this nifty little program you just picked up actually do? LPrint is designed to take advantage of the flexibility of PostScript® printers and produce a consistent, professional looking listing for all of your source code, and other plain text ASCII files.

Why did you use PostScript®, after all I just want it to work on my #*($& printer? There are literally hundreds of printers on the market today, each with slightly (sometimes radically) different features, control codes, styles, fonts, etc. For a company to properly support a printer it must have one to test with, and it must modify its programs or device drivers to generate the codes that the printer requires. This requires hundreds of dollars for each printer and many hours of development and support effort.

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When you multiply this by the number of printer models currently in use the cost can become truly staggering.

PostScript®, on the other hand, is available off the shelf for printers in a wide variety of price and performance ranges. For those printers that do no support an embedded PostScript® interpreter, programs such as Ghostscript are available in the public domain or through shareware that will allow PostScript® output to be produced by any printing device.

By using PostScript® we were able to concentrate on the important features of this product and ensure that no matter what printer you use LPrint with the output will look the same. Our support costs are also dramatically reduced, and we can pass the savings on to you.

I don't have a PostScript® interpreter for my printer, how can I use LPrint? We recommend that contact the manufacturer of your printer and determine if a PostScript® interpreter upgrade package is available. If you can not get a PostScript® interpreter for your printer we recommend using Ghostscript. Versions of Ghostscript that will run on IBM PC compatibles are available from a variety of sources, including Simtel, many bulletin boards, and various anonymous FTP sites.

How can I get my company logo to print in the title block? There are two ways to print a logo or company name on the title block. The easiest is to send a good quality black and white copy of your company logo to Paragon. We can digitize your logo and put it in a format acceptable to LPrint for $50.00 US. The other way is to write your own program to produce your company logo. We have provided you with two examples on your distribution disk, titlebox.ps and sample.ps. Titlebox.ps simply prints text in the box, and sample.ps prints a digitized image.

6. SHAREWARE

LPrint is distributed as Shareware. Shareware distribution gives users a chance to try software before buying it. If you try a Shareware program and continue to use it, you are expected to register. If you register LPrint you will be entitled to a copy of the most recent version and one free upgrade, as it becomes available, and notice of any upgrades for one year after registering. In addition registered users will receive free support for up to 6 months via US Mail or facsimile.

Users of LPRINT must accept this disclaimer of warranty:

"LPrint is supplied as is. The author disclaims all warranties, expressed or implied, including, without limitation, the warranties of merchantability and of fitness for any purpose. The author assumes no liability for damages, direct or consequential, which may result from the use of LPrint."

LPrint is a "shareware program" and is provided at no charge to the user for evaluation. Feel free to share it with your friends, but do not give it away altered or as part of another system. If

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you find this program useful and find that you are using LPrint and continue to use LPrint after a 2 week trial period, you must make a registration payment of $30.00 to Paragon Innovations, Inc. The $30.00 registration fee will license one copy for use on any one computer at any one time. You must treat this software just like a book. An example is that this software may be used by any number of people and may be freely moved from one computer location to another, so long as there is no possibility of it being used at one location while it's being used at another. Just as a book cannot be read by two different persons at the same time. Commercial users should contact Paragon Innovations, Inc. to make arrangements for a site license.

Anyone distributing LPrint for any kind of remuneration must first contact Paragon Innovations, Inc. at the address below for authorization. This authorization will be automatically granted to distributors recognized by the Association of Shareware Professionals (ASP) as adhering to its guidelines for shareware distributors, and such distributors may begin offering LPrint immediately (However Paragon Innovations, Inc. must still be advised so that the distributor can be kept up-to date with the latest version of LPrint.).

You are encouraged to pass a copy of LPrint along to your friends for evaluation. Please encourage them to register their copy if they find they can use it. All registered users will receive a copy of the latest version of LPrint.

7. ASSOCIATION OF SHAREWARE PROFESSIONALS

Paragon Innovations, Inc. is a member of the Association of Shareware Professionals (ASP). ASP wants to make sure that the shareware principle works for you. If you are unable to resolve a shareware related problem with an ASP member by contacting the member directly, ASP may be able to help. The ASP Ombudsman can help you resolve a dispute or problem with an ASP member, but does not provide technical support for members' products.

Please write to the ASP Ombudsman at:

ASP Ombudsman
545 Grover Road
Muskegon, MI 49442
U.S.A.

8. REGISTRATION

Registering LPrint entitles you to the following:

- A copy of the most recent version of LPrint.
- One free upgrade, when available.
- The registration reminder is deleted from your registered versions.
- The default message text will be custom coded for your version.
- Notice of upgrades and special offers for one year.
- 6 months of free support via US mail, facsimile, or Compuserve.
- A PostScript quick reference booklet.
- A collection of PostScript utility programs.

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A registration form and instructions are provided on the next page.

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To register LPrint fill out this form and mail it with your check or money order to:

Paragon Innovations, Inc.
202 N. Allen Dr. Suite A
Allen, TX 75002 USA

Name: _____ Date: _____
Company:_____
Address:_____
_____
_____
City:_____ State/Country:_____ ZIP/PC:_____
Daytime Phone: _____
Email Address: _____
Prefered Disk Size: ____ 3-1/2" ____ 5-1/4"
Default message text (60 characters or less):

_____

Item	Qty	Each	Total
LPrint registration		$30	
Logo scanning service		$50	
		Subtotal	
Texas residents please add 7.75% sales tax			
Total, check or money order enclosed			

MasterCard _____ or VISA _____ Expiration Date _____

Card Number _____

Card Holder's Signature REQUIRED _____

TERMS:
MasterCard, VISA, Check or Money Order drawn on a U.S.A bank in U.S.A. funds. All orders are prepaid only. Please make checks payable to Paragon Innovations, Inc. Prices and terms subject to change without notice.

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Where did you get your copy of LPrint?

What type of printer do you use?

What LPrint features do you like the best?

What features would you like to see added to LPrint?

Have you had any problems with LPrint?

How could we improve the LPrint documentation?

Have you recommended LPrint to a friend or associate?

Would you buy another software product from Paragon Innovations?

Would you be interested in Paragon digitizing your logo?

What other shareware products would you like to see from Paragon?

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