

DESKJET

COLLABORATORS

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| | <i>TITLE :</i> DESKJET | | |
| <i>ACTION</i> | <i>NAME</i> | <i>DATE</i> | <i>SIGNATURE</i> |
| WRITTEN BY | | January 25, 2023 | |

REVISION HISTORY

| NUMBER | DATE | DESCRIPTION | NAME |
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Chapter 1

DESKJET

1.1 Contents

HP Deskjet 8x0C Driver
by Peter Hutchison
22/5/04 40.23

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1.2 intro

Introduction

This is my second driver to be released . This is a colour printer driver for the 800 series of Hewlett Packard Deskjet printers in particular the 8xxC printers. It should work on any other 800 serier printer except the 820C which is a Windows only printer.

1.3 reqs

Requirements

Computer: Any Amiga.

Memory: 4Mb or more

Workbench: WB 1.3 or better (upto 3.1)

Printer: HP Deskjet 810C, 830C, 840C, 850C, 870C, 880C, 890C, 3325C, 3420C and 3820C or later

The HP Deskjet 820C is incompatible and will not produce any output via PCL. These depend on the host processor (e.g. a PC) to interpret and produce the required output rather than the printer. The 710C and 720C are also incompatible.

Printer Enhancement packages, such as TurboPrint or Studio should not be used with this driver.

If using AmigaOS 3.5 or 3.9, please use the OS 3.5 drivers supplied on the CD to make full use of 24 bit output.

1.4 feat

Features

Colour: CMYK (Colour AND Black) dual cartridges
Photo cartridges are NOT supported. Sorry.

Resolution: 150 to 600 dpi.

Graphics: Upto 600 x 300 colour, 600 x 600 b/w

Aspect: Portrait and Landscape

Output: B&W and Colour Text,
B&W, greyscale and colour graphics

Typefaces:

ESC(B = Courier

ESC(R = CG Times

ESC(K = Letter Gothic

ESC(A = Universal

Modes:

- 0 = Uncompressed
- 2 = Run Length Encoded compression

Uses character symbol sets fonts for other typefaces.

Optimised for Speed and Versions for 000, 020 and 040 processors.

Compiled with SAS C 6.58

Densities

- 0 150 x 150
- 1 150 x 150
- 2 150 x 150
- 3 300 x 300
- 4 300 x 300
- 5 600 x 300
- 6 600 x 600
- 7 600 x 600

NB: 600x300 may produce crushed output in some cases.
US LEGAL supports 14in paper, use 10in for A4 and others.

Make sure you select a lower density before printing from a Word Processor (usually defaults to 7).

1.5 instal

Installation

Run the Install_Driver and follow instructions, select the processor type (000,020 or 040) and Printer model closest to your printer from the list given.

If installing a new printer, run the Preferences to select the correct driver and set it up. See

Prefs

.

For installation to work properly you need the Installer command in the C: directory. Available from Aminet, OS CD or with some commercial software.

If it says it cannot open the printer.device, then that is because the current printer.prefs is pointing to a deleted printer driver. Press cancel if this message appears, and remember to save your new prefs when asked.

1.6 prefs

Preferences

1. Printer

Printer Type - select appropriate printer from list
Printer Port - usually Parallel
Printer Pitch - Pica, Elite or Fine (choose one that suits you)
Print Spacing - 6 or 8 lpi (I use 6)
Print Quality - Use Letter for max quality
Paper Type - Use Single for paper such as A4
Paper Format - Use DIN A4, US Letter or US Legal for single sheet paper
Paper Length - Set this to for CUSTOM length
Margins - Use 2 and 80 characters

2. PrinterGfx

Dithering - Floyd Steinburg for best quality or Ordering/Halftone more speed (no overhead).
Scaling - Integer for line gfx or text.
Use Fraction for shaded pics.
Image - Positive (Neg is rarely used)
Aspect - Horizontal
Shade - Color (NB: Use BW if using Multiview with Text)
Threshold - Around 5 (use a smaller figure if too dark)
Density - Use whatever you fancy (use a small figure for speed and less ink)
Color Correction - Don't set, use all 4096 (12 bit) colours
Limits - Set to ignore
Smoothing - Used to smooth out lines esp. in graphic dumps of text
Centre Picture - Tick this if you want centralised pics

3. Other features

Gamma Control - Use Threshold to change gamma in PrinterGfx for colour modes.

Further information is in your Workbench Users Guide (Ch 9) or see my web page for info on preferences.

If you are experiencing problems with this driver send me email (see below). You can download updates from Aminet, my web page or Amiga Format CDs.

1.7 custom

Customisation

If you wish you can customize your driver to your language for text based printing. The Driver defaults to ESC(1E for UK character set (ESC=1B). Use a binary editor (e.g. FileX) to change the above init string (5 chars) to another character set at around address 000017E6.

e.g.

ESC(8U = HP Roman 8

ESC(0N = Latin 1

ESC(1G = German (ISO 21)

ESC(1F = French (ISO 69)
ESC(0I = Italian (ISO 15)
ESC(2S = Spanish (ISO 17)
ESC(0S = Swedish (ISO 11)
ESC(1U = HP Legal
ESC(9T = Turkish
ESC(2N = Latin 2
ESC(5N = Latin 5

1.8 hist

History

Beta 1

13/12/97 Copied printertag.asm, init.asm and data.c and changed printer names.
14/12/97 Updated cmds in data.c
Copied dospecial.c
15/12/97 Update dospecial.c.
Copied and modified render.c, transfer.c, density.c, macros.asm, hp_rev. ←
i
Compiled ok
Text output ok
B/w gfx output ok except missed 1 char off closing string. Recompiled
16/12/97 Renamed driver as 870C as 820C is US and Windows only!

V1.1

09/01/98 DoSpecial - removed '0u' from init string (cmd unknown).
changed topmargin from 2 to 0.
Density - changed Density 6 to 2xheight for correct aspect.

V1.2

14/03/98 Data - Updated normal Char Set. Added bold off and black
DoSpecial - Added version string

V1.3

2/4/98 DoSpecial - Removed '0u' unknown command. Reset topmargin to 0 (again).

V1.4

28/6/98 DoSpecial - Added UK char set as default.
Data - Changed references of ANSI to UK char set
Density - Added W_TRACTOR support.

V1.5

7/11/98 Density - Changed density 6 to 600 x 300.
Removed W_T tractor support. N/R.
Added Install_Driver script.

V1.6

26/4/99 Data.c - Added support for all typefaces (0-7).

09/07/99 Updated documentation from doc to guide file.
NewIcons used instead of MWB.

v1.7

29/8/99 Dospecial.c - Added support for Paper Format preference
Added 810C to install script and updated guide.
25/9/99 Render.c - Added support for paper format

(1.8)

v40.8 Dospecial/Render - Added ESC E to init printer correctly
5/11/99 Changed version to match OS versions.
Added customisation section to guide.

v40.9

19/12/99 Added Paper Quality support (Normal/Presentation)

v40.10

05/01/00 Fixed bug with graphics printing. Density set in wrong place.

v40.11

22/01/00 Extended character set selection to two characters from one
for other char sets.

40.12

3/2/01 Added support for HP_Prefs program
Dospecial. Changed init string. Removed EscE and added Paper Size and ↔
Black Text colour.
Render. Removed EscE from Init string (can cause problems with multiple ↔
dumps)
Added Raster height command and a CR.

40.13

28/2/01 Added Pager length to int string for graphic modes.
Updated HP_Prefs program and removed some Typefaces and Char Sets to ↔
allow init strings
to work correctly w/o producing odd chars at start of a print.

40.14

19/03/01 Fixed problem with ColourCorrection. Width value was too long causing ↔
freezes and crashes as it
overran allocated memory.

40.15

28/03/01 Removed HP_Prefs. Causes driver to hang when reading prefs file within ↔
driver on v40 or older
printer.device.

40.16

08/09/01 Changed top margin from 0 to 1. Added 990C to Install script.

40.17

09/12/01 Changed density.c. For 600x300, I halved the max Y dots settings so it ↔
will fit on a page.

40.20

20/5/02 Changed density.c. Removed old 75 dpi modes.
Render.c now uses compression routines to reduce the amount of data to ↔
send to printer and speed
up printing using RLE compression. Old CompactBuf replaced with two new ↔
faster routines which uses
White Space Removal and compression where possible.

40.21

04/06/02 Removed some old headers. Fixed small bug in ColourCorrection routine. ↔
Replaced Installation script
with an Installer script.

40.22

16/06/02 Fixed major memory leak problem in Render.c in subroutines. Forgot to ↔
free memory allocated for
after dumping data to printer.

40.23

22/05/04 headers and prototypes moved to new Global.h file. Source modified for ↔
Strict ansi compilance and
should compile under SAS/C, Storm/C and GCC. Added 3 printers to ↔
Install_script.

1.9 author

Author

This driver is Giftware, you are not obliged to send anything but if you want to contribute to further driver development for this printer and others then send me money (£5 UK Pounds) to me at:

Email: pjhutch@pcguru.plus.com

Web: <http://www.pcguru.plus.com>
