

DESKJET

COLLABORATORS

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WRITTEN BY		August 13, 2022	

REVISION HISTORY

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Chapter 1

DESKJET

1.1 Contents

HP Deskjet 600C driver
by Peter Hutchison
9/6/02 40.15

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1.2 intro

Introduction

This is my second driver to be released . This is a colour printer driver for the 600 series of Hewlett Packard Deskjet printers which uses a single cartridge at a time. Use the 670C driver for dual cartridge printers. It should work on any other 600 serier printer.

1.3 reqs

Requirements

Computer: Any Amiga.

Memory: 1Mb or more

Workbench: WB 1.3 or better (upto 3.1)

Printer: HP Deskjet 600C, 660C, 670C, 680C 690C.

The HP Deskjet 710C and 720C are 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.

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

1.4 feat

Features

Colour: CMY (Colour or Black) cartridges
Photo cartridges are NOT supported. Sorry.

Resolution: 75 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

Uses character symbol sets fonts for other typefaces.

*NEW - Optimised for Speed and Versions for '000, '020 and '040 processors.

Compiled with SAS C 6.58

Densities

0 75 x 75

1 75 x 75

2 150 x 150

3 150 x 150

4 300 x 300

5 300 x 300

6 600 x 300

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 (use 020 if you have a 030, 040 or 060) 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

.

1.6 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 (4 chars) to another character set.

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

NB: Do not use longer commands eg ES(17U (PC-852) as that will overwrite the next command or the printer will not init correctly.

1.7 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 for standard single sheet A4 (don't use Wide)
 Paper Length - Around 66 lines for A4 paper
 Margins - Use 2 and 80 characters

2. PrinterGfx

Dithering - Floyd Steinburg for best quality
 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

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.

1.8 hist

History

Beta 1

11/10/97 Provided macros.i and init.asm as-is. No modifications required.
 11/10/97 Started on printertag.asm. Modified HP_Laserjet file for Deskjet and colour!
 12/10/97 Completed Cmd table in data.c, modified HP_LJ to HP_DJ.
 12/10/97 Updated dospecial.c for Deskjet
 13/10/97 Create 'makefile' script to make 'smakefile' for SMake. Successfully completed first compiled text only beta driver.

Beta 2

24/10/97 Added Horiz Aspect (Landscape) setting (via Prefs). Added Colour Text facility. Changed init strings to full length commands (was causing odd chars to appear on every page).

Beta 3

30/10/97 Beta 2 kept Gurning. Fixed by remaking it driver with source

files in right order.
Fixed a bug in the Aspect Esc command, missing 'l'.

Beta 4

2/11/97 Modified Render.c for b&w gfx printing. Tested using CMD and PPaint okay. Created a 1.9Mb file!

Beta 5

8/11/97 Changed LPP value, pointing to wrong place in cmd string.
Changed HORIZ_ASPECT to VERT_ASPECT for Landscape mode.

Beta 6

13/11/97 Change density 6 to use 600 x 300 (max for colour)

15/11/97 Modified render.c and transfer.c for color graphics. First attempt failed wil Guru. Examined output from HP550C color dump, requires more commands for Color output eg Ec*b#M, Ec*r#U, Ec*r#S, Ec*b#W and Ecb#V (4 per row).

18/11/97 Started modifying render.c for correct color output.

23/11/97 Completed combined gfx section. Testing failed on b&w output. Crashes 1/4 way in Colour.

26/11/97 Completly rewrote transfer program and in C (rather than asm)
Rewrote render program.
Compiled and tested, run, output still not quite right though.

Beta 7

03/12/97 Previous version printer 0M on every page due to missing '*' in start up string.
Colour output was messed up but image ok. Mainly a yellow colour. Amended and extended init string.
Changed order of colour buffers to KCMY but kept order of transfer to KYMC but to correct buffers.

V1.0

12/12/97 Final version. Completed and output a-ok!

v1.1

15/12/97 Missed out some commands in init string, changed scoptions and turned on Optimised for time. Recompiled ok

V1.2

14/03/98 Updated Normal char set (bold off, black). Added version string.

V1.3

4/4/98 Reset topmargin back to 0. Removed 'Ou' from init string (unknown).

V1.4

7/5/98 Modified B/W graphics output. Prev. version seperated bands incorrectly.

V1.5

28/6/98 Added W_TRACTOR support and changed default char set to UK. Increased timeout to 60 secs.

V1.6

20/9/98 Removed W_TRACTOR support, prob. interferes with Final Writer output.

V1.7

7/11/98 Density - Changed density 6 to 600 x 300.

V1.8

1/2/99 Transfer.c - Changed initialisation for colour pointers.

Dospecial.c - Changed order of two commands in init string (oops)

V1.9

26/4/99 Data.c - Added support for 4 typefaces. Added missing comma in command table.

40.10

15/12/99 - Dospecial.c - Added support for paper types and auto set page length.

Added ESC E to init printer properly

Render.c - Added support for paper size.

Changed version to match OS versions.

Fixed small bug with paper quality setting.

40.11

05/01/99 Fixed bug with graphics printing, init string corrupted due to ↔ resolution

set in wrong place!

40.12

11/7/01 Added Gamma correction support

Added paper length command in render.c

Added 040 version

40.15

9/6/02 Added compression routines for more speed and replaced old CompactBuf with ↔ two new

routines.

Replaced AmigaDOS install script with an Installer 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:

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