

DESKJET

COLLABORATORS

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REVISION HISTORY

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Chapter 1

DESKJET

1.1 Contents

HP Deskjet 670C/680C/690C driver
by Peter Hutchison
8/6/99 1.18

Introduction

Requirements

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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 in particular the 67xC and 69xC printers. It should work on any other 600 serier printer.

This driver appeared because an Amiga user in Florida, USA had a new printer and couldn't use its full features as existing drivers would either do upto 300 dpi (Deskjet 550C) or only did black and white (HPDJ600).

So, since I had SAS/C, RKM:Devices and got some information about PCL, HP's printer language, and Commodore's Laserjet source code (which shares the same language) I created my first printer driver which does all of the required features i.e. 600 dpi and colour. Here it is.

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: CMYK (Colour AND Black) dual 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 and '020 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 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.

1.7 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 w/ 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 Ec*b#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 Completely 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 OM 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

28/12/97 Removed extra commands from v1.1 in transfer.c,
Added some comments for init string in render.c

v1.3

04/01/98 DoSpecial - Set the top margin to 0 rather than 2 to remove the
3 blank lines problem.
Density - For density 6, I have doubled the MaxYDots for
600 x 300 density.

v1.4

08/01/98 DoSpecial - reinserted the Plain paper and Gfx depletion commands.
Density - set up Multiply Dimensions to 2xheight for density 6.

v1.5

07/02/98 Replaced 600x300 density by 600x600
Updated Extended Char set for special/foreign chars

v1.6

14/03/98 Updated Normal Char Set string in data.c (added bold off, black)
Added Version string.

v1.7

4/4/98 Removed 'Ou' from init string. Reset margin to 0.

v1.8

13/5/98 Changed topmargin in initForm from 002 to 000.
Included densities in document and added further setup info.

v1.9

20/5/98 Changed init string. Swapped around the Lines/inch and Underline off ↵
commands
to see if it prevents the u/l problem in some text editors.

v1.10

20/6/98 Added W_TRACTOR facility in density.c (OK)

v1.11

27/6/98 Changed default char set from ANSI to UK char set.

v1.12

11/7/98 Init string positions incorrect causing problems. One char out.

v1.13

9/9/98 Fixed FORM_LEN for Margins in DoSpecial for SLPP and removed page eject
instruction in Render (case 4) as it doesn't work in Final Writer!

v1.14

20/9/98 Increased Timeout from 30 to 60 seconds in printertag.asm.
Readded page eject to Render() but deleted the W_TRACTOR feature from
SetDensity().

v1.15

1/10/98 Removed ConvFunc routine as DJ does not require this. Added if statement
for SLRM to ensure left margin >=0.
Removed Plain Paper command from init string.

Added 600 x 300 density for density 6.

v1.16

1/2/99 Dospecial.c - Reduced init length string (was too long).

v1.17

26/4/99 Data.c - Changed first 4 typesfaces to use available typefaces instead of char sets.

v1.18

8/6/99 Data.c - Fixed command table. Wasn't interpreting text style commands properly.

1.8 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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