epson600

COLLABORATORS

	TITLE : epson600		
ACTION	*NAME*	*DATE*	*SIGNATURE*
WRITTEN BY		August 9, 2022	

REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

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epson600

1.1 main

                            Epson Stylus Colour 600/800 driver
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                      1/10/00 40.20

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1.2 req

Requirements

Computer: Any Amiga
Workbench: WB 1.3 or better
Printer: Epson Stylus Color 600, 640, 660, 740, 760, 800, 850,860, 900.

Photo printers require 24 bit drivers such as TurboPrint or Studio,
otherwise users can only use density modes 0-3 for 180 or 360 dpi
(720 dpi does not work).

EpsonPrefs program requires Workbench 2 or higher for GadTools
interface.

NB: Please note that new printers use ESC/P2 Raster and Remote
with new commands eg.ESC(r, ESC(k, ESC(\, ESC(S, ESC(R
which are not supported yet as they are not documented.

NB: Printer enhancement packages such as Turboprint/Studio should not be
used with this driver.

1.3   intro

Introduction

 This is a colour printer driver for the 600 series of the Epson Stylus
Colour printers. It should also work with the Stylus 6x0, 7x0, 8x0 and 900
which also supports 1440 dpi.

   I wrote this driver as Workbench only provided EpsonX or EpsonQ drivers
which are inadequate for the new stylus printers. They don't support the
new Raster Graphics modes, Microweave, Microdot or the higher resolutions
above 360dpi.
   The only other driver ever written was the StylusII and IIs but they only
supported upto 720dpi.

   Unfortunately, Workbench printer driver system hasn't really been updated
since 2.04 and these days and the Preferences provided are really under-
featured with poor paper size or type choice, no way to select character
sets or typefaces built into the printers. It only supports 12 bit colour
(4096 colours) and CMYK or RGB type printers, Photo printers are not supported
at all.

   Amiga Inc. have decided to release OS3.5 which will have a updated Printer
Driver system. This will make my current drivers redundant and will be only
useful for those with Worbench's upto 3.1.

1.4   feat

Features

Colour: CMYK (Colour AND Black)

Resolution: 180 to 1440 dpi (using Microdot & Microweave).
            Supports Microweave in Letter Quality mode.

Aspect: Portrait and Landscape

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

Optimised for Speed.

```
Typefaces:

  ESC(B = Roman
  ESC(R = Sans serif
  ESC(K = Courier Prestige
  ESC(A = Script
  ESC(E = Roman T
  ESC(H = Sans serif H.
```

(use above printer command in your application to set the typeface).

NEW! Seperate versions for '000, '020 and '040.

Compiled with SAS C 6.58

Densities

```
0  180 x 180
1  180 x 180
2  360 x 360
3  360 x 360
4  720 x 720
5  720 x 720
6  720 x 720
7  720 x 720
```

Paper: 10in for most sizes, 14in for US LEGAL
Recommend densities 0-3 for Word Processing output.

1.5 install

Installation

Run Install_Driver and follow instructions, select printer that matches
your Amiga (68000 or 68020) and Printer model. If installing a new
driver run the Preferences to select the correct driver and set it up
(see below).

1.6 pref

Preferences

1. Printer

```
   Printer Type - select appropiate printer from list
   Printer Port - usually Parallel
   Printer Pitch - Pica, Elite of 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 US Legal, US Letter or  DIN A4 for single sheet paper
    Paper Length   - Set to CUSTOM paper length (lines)
    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
```

3. EpsonPrefs (WB2+)

```
    Microweave     - Turns on Microweave mode for reduced banding.

    Dot Control    - Enable/disable smaller print dots for  higher density graphics

    Gamma Control  - Gamma correction for graphics (0, 1.1 to 2.5)

    Typeface       - Select a typeface for ASCII text printing

    Character Set  - International character set selection
```

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

For WB 1.3 users:

The default character set is set to US (0), using the ESCR command. It is
possible now to change the default char set by using a binary editor and
change the command ESCR0 (1B 52 n) to another character set (ie a new 'n'
value).

```
Char sets           Char set
00    US            08    Japan (Eng)
01    France        09    Norway
02    Germany       0A    Denmark II
03    UK            0B    Spain II
```

```
04     Denmark I     0C    Lat America
05     Sweden        0D    Korea
06     Italy         80    Legal
07     Spain I
```

For WB2 or better, use EpsonPrefs!

1.8   hist


```
History
```

1.0 First release.
    Tested okay on PPaint, WordWorth 6 (Normal mode) and Blacks Editor.
1.1 Added Close, ConvFunc functions for form feeds and fixed a compilation
    warning (probably cause of Gurus on some machines).
    NB: Crashes when using a graphics based Word Processor.
1.2 Fixed crashes in Word Processing output using b/w graphics – using
    wrong pointer! Added form length command in DoSpecial. Seems much better!
1.3 Added Page Length command (missing in 1.2), output speeded up esp. WP output.
    Other minor stuff.
1.4 Set Microweave on for 1440dpi as default. Added '020 version.
1.5 Removed ESC P from ESC@ string in Render.c
1.6 Reduced init string in Dospecial.c, used ESC! instead. Added missing comma in ↩
    data.c
    Removed CR from init string in Render.c
1.7 Render.c – Changed init string. Added ESC! command, changed margins to use 0
    and 255 (instead of 1 and 80).
    Added Page length command and added LF to end of each graphics line in Render. ↩
        c
    Added default colour to black in DoSpecial.c
1.8 Data.c. Incorrect apostrophe character changed.
    Render.c – added missing Page length command to init string (oops).
      Removed unnecessary commands from StartBuf init string.
      and removed LF command. Reset margins back to 1 and 80.
      Combined StartBuf and GfxBuf together – eradicated mysterious chars in Final
      Writer which appear between init strings. Yes!
1.9 Updated Install_Driver Script
    Removed left/right margin commands in graphics routine
1.10 Removed Wide_Tractor code in density routine. Documentation updated (prefs)
     Added page length commands.
1.11 Added support for various typefaces.
1.12 Density.c – Changed the 1440 dpi settings to 720 dpi for densities 6 and 7.
     Render.c – Use Microdot size for densities 6 and 7 as normal.
                 Added support for paper format.
     DoSpecial.c – Added support for paper format.
     Install – Added 660 and 750 printers to list.
40.13 Dospecial/Render – Updated version from 1.13 to 40.13 instead.
      Added ESC@ command to init printer properly.
40.14 Render.c – Changed init string to use ESC(C and ESC(c.
40.15 Render.c – Changed init string back to old string. New one didn't work.
      020 version is now fully 020 compiled.
40.20 Added Gamma correction to driver.
      EpsonPrefs program included.
      Driver supports EpsonPrefs preferences.

```
     68040 version added.
```

1.9 add

```
Additional Information

 Stylus Photo Printers use a new subset of the ESC/P2 command language which has  ←
    not
been made publically available as well as details of how exactly the 1440 dpi is  ←
    made
(I believe it may have to do with the ESC(e Microdot command for smaller dots.

New commands include:
ESC(r  - New colour command?!
ESC(K  - Print mode?!
ESC(\  - Unknown
ESC(s  - Unknown
ESC(B  - Bar code (added Dec 97)
ESC(R  - Remote?!

Details of these new commands are non-existant. If you have any details of them  ←
    please
email me at pjhutch@blizzard.u-net.com.

My drivers currently lack any use of compression modes and colour correction to  ←
    improve
performance and quality due to lack of time and my driver writing skills. Source  ←
    is
available to those who could update them for me!
```

1.10 auth

```
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 either money (5UKP) or old software (Send me a list first and they
must be originals):

Email: pjhutch@blizzard.u-net.com
Web:   http://www.blizzard.u-net.com

or
Peter Hutchison
75 Lower Skircoat Green
Copley Lane
Halifax
W Yorks
England
HX3 0TG
```