NAME
> hbpldecode – Decode a HBPL stream into human readable form.

SYNOPSIS
> **hbpldecode** [*options*] *<hbpl-file*

DESCRIPTION
> **hbpldecode** decodes a HBPL stream into human readable form. HBPL is Host Based Printer Language.
>
> There are two versions of HBPL in existence.
>
> Version one is an HBPL stream with JBIG2 (?) data. This data is used by the Dell 1250c, Dell C1660w, Epson AcuLaser C1700, Fuji-Xerox cp105b, and similar printers. These printers are unsupported.
>
> Version two is an HBPL stream with JBIG encoded data. This data is used by the Xerox WorkCentre 6015, Fuji Xerox DocuPrint CM205, Dell 1355c, and similar printers. These printers are supported by foo2hbpl2-wrapper et al.
>
> Both versions can be decoded by hbpldecode.

COMMAND LINE OPTIONS
> These are the options that can appear on the command line.
>
> **–d** *basename*
>> Basename of .pbm file for saving decompressed planes.
>
> **–h**   Print hex file offsets.
>
> **–o**   Print file offsets.
>
> **–D** *level*
>> Set Debug level [0].

EXAMPLES
> Decode an HBPL stream file, version 1.

```
$ hbpldecode -h 1250c-mono.prn
    0:    \033%-12345X@PJL JOB MODE=PRINTER
   1f:    @PJL SET STRINGCODESET=UTF8
   3b:    @PJL COMMENT DATE=06/01/2011
   58:    @PJL COMMENT TIME=13:28:30
   73:    @PJL COMMENT DNAME=empty - Notepad
   96:    @PJL SET JOBATTR="@LUNA=rick"
   b4:    @PJL SET COPIES=1
   c6:    @PJL SET QTY=1
   d5:    @PJL SET JOBATTR="@TRCH=OFF"
   f2:    @PJL SET DUPLEX=OFF
  106:    @PJL SET BINDING=LONGEDGE
  120:    @PJL SET RENDERMODE=GRAYSCALE
  13e:    @PJL SET ECONOMODE=OFF
  155:    @PJL SET RET=ON
  165:    @PJL SET JOBATTR="@IREC=OFF"
  182:    @PJL SET JOBATTR="@HOAD=I0A00020F"
  1a5:    @PJL SET JOBATTR="@JOAU=rick"
  1c3:    @PJL SET JOBATTR="@CNAM=RICK-VB"
  1e4:    @PJL SET IWAMANUALDUP=OFF
  1fe:    @PJL SET IWAJAMRECOVERY=AUTO
  21b:    @PJL SET JOBATTR="@MSIP=NORMAL"
```

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        23b:    @PJL SET PAPERDIRECTION=SEF
        257:    @PJL SET RESOLUTION=600
        26f:    @PJL SET BITSPERPIXEL=8
        287:    @PJL SET JOBATTR="@DRDM=RASTER"
        2a7:    @PJL SET JOBATTR="@TCPR=33"
        2c3:    @PJL SET JOBATTR="@TUCR=33"
        2df:    @PJL SET JOBATTR="@TTRC=33"
        2fb:    @PJL SET JOBATTR="@TSCR=33"
        317:    @PJL SET JOBATTR="@GCPR=33"
        333:    @PJL SET JOBATTR="@GUCR=33"
        34f:    @PJL SET JOBATTR="@GTRC=33"
        36b:    @PJL SET JOBATTR="@GSCR=33"
        387:    @PJL SET JOBATTR="@ICPR=34"
        3a3:    @PJL SET JOBATTR="@IUCR=34"
        3bf:    @PJL SET JOBATTR="@ITRC=34"
        3db:    @PJL SET JOBATTR="@ISCR=34"
        3f7:    @PJL SET JOBATTR="@TDFT=0"
        412:    @PJL SET JOBATTR="@GDFT=0"
        42d:    @PJL SET JOBATTR="@IDFT=0"
        448:    @PJL ENTER LANGUAGE=HBPL
        461:    RECTYPE 'A' [0x41]:
        462:        81 a1: 0x0
        465:        82 a2: 0x7
        469:        83 a2: 0x1
        46d:    RECTYPE 'C' [0x43]:
        46e:        91 a1: 0x0
        471:        92 a1: 0x1
        474:        93 a1: 0x1
        477:        94 a1: 0x0
        47a:        95 c2: 0x0
        480:        96 a1: 0x0
        483:        97 c3: 0x0
        489:        98 a1: 0x0
        48c:        99 a4: 1 [PAGECNT]
        492:        9a c4: 5104x6600 [WxH]
        49c:        9b a1: 0x0
        49f:        9c a1: 0x1
        4a2:        9d a1: 0x9
        4a5:        9e a1: 0x2
        4a8:        9f a1: 0x5
        4ab:        a0 a1: 0x8
        4ae:        a1 a1: 0x0
        4b1:        a2 c4: 5104x6600 [WxH]
        4bb:    RECTYPE 'Q' [0x51]:
        4bc:    RECTYPE 'R' [0x52]:
        4bd:        a3 a1: 0x0
        4c0:        a4 a2: 6457 (0x1939) bytes of data...
       1dfe:    RECTYPE 'S' [0x53]:
       1dff:    RECTYPE 'D' [0x44]:
       1e00:    RECTYPE 'B' [0x42]:
       1dff:    \033%-12345X@PJL EOJ
```

Decode an HBPL stream file, version 2.

```
        $ hbpldecode -h 6015c-color.prn
            0:       33%-12345X@PJL JOB NAME=PRINTER
           20:     @PJL SET JOBATTR="HOST:dual.rkkda.org"
           48:     @PJL SET JOBATTR="USER:rick"
           66:     @PJL SET JOBATTR="DOCU:(stdin)"
           87:     @PJL SET JOBATTR="OWNR:rick"
           a5:     @PJL SET DUPLEX=OFF
           ba:     @PJL SET MEDIASOURCE=0
           d2:     @PJL SET RENDERMODE=COLOR
           ed:     @PJL SET RESOLUTION=600
          106:     @PJL SET BITSPERPIXEL=2
          11f:     @PJL SET COPIES=1
          132:     @PJL ENTER LANGUAGE=HBPL
          14c:     RECTYPE JP [Job Parameters]
00000000: 1b 4a 50 04 01 00 00 01  00 00 00 00 00 00 00 00   .JP..... ........
00000010: b0 bd ac 43 00 f0 cf 08  f4 9f ac 43 59 ba a0 43   ...C.... ...CY..C
00000020: f4 9f ac 43 00 e0 cd 08  9c ba a0 43 00 f0 cf 08   ...C.... ...C....
00000030: 00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ........ ........
          18c:     RECTYPE PS [Page Start]
00000000: 1b 50 53 3c 00 14 00 00  06 19 00 00 00 78 f4 01   .PS<.... .....x..
00000010: 90 03 00 00 04 01 01 00  58 02 e0 00 00 00 e0 00   ........ X.......
00000020: 00 00 e0 00 00 00 f0 00  00 00 00 00 00 00 00 00   ........ ........
00000030: 00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ........ ........
                  w,h=5120x6406 res=600 color=1
                  mediatype=Plain(1) papersize=Letter(4)
          1cc:     Cyan BIH:
                  DL = 0, D = 0, P = 1, - = 0, XY = 10240 x 6406
                  L0 = 128, MX = 0, MY = 0
                  Order  = 0
                  Options = 64  LRLTWO
                  51 stripes, 0 layers, 1 planes
                  ...cyan data skipped...
          2ac:     Magenta BIH:
                  DL = 0, D = 0, P = 1, - = 0, XY = 10240 x 6406
                  L0 = 128, MX = 0, MY = 0
                  Order  = 0
                  Options = 64  LRLTWO
                  51 stripes, 0 layers, 1 planes
                  ...magenta data skipped...
          38c:     Yellow BIH:
                  DL = 0, D = 0, P = 1, - = 0, XY = 10240 x 6406
                  L0 = 128, MX = 0, MY = 0
                  Order  = 0
                  Options = 64  LRLTWO
                  51 stripes, 0 layers, 1 planes
                  ...yellow data skipped...
          46c:     Black BIH:
                  DL = 0, D = 0, P = 1, - = 0, XY = 10240 x 6406
                  L0 = 128, MX = 0, MY = 0
                  Order  = 0
                  Options = 64  LRLTWO
                  51 stripes, 0 layers, 1 planes
                  ...black data skipped...
          55c:     RECTYPE PE [Page End]
```

```
00000000: 1b 50 45 3c 00 00 00 00  77 00 00 00 7c 00 00 00  .PE<.... w...|...
00000010: 08 e0 cd 08 00 00 00 00  9c 55 ac bf f4 9f ac 43  ........ .U.....C
00000020: e0 a3 ac 43 00 00 00 00  19 00 00 00 75 9e 99 43  ...C.... ....u..C
00000030: 00 21 99 43 00 00 00 00  01 00 00 00 9a 0e 99 43  .!.C.... .......C
   59c:    \033%-12345X@PJL EOJ
```

FILES
/usr/bin/hbpldecode

SEE ALSO
foo2hbpl2-wrapper(1), **foo2hbpl2**(1)

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