

NAME

t1disasm – disassemble PostScript Type 1 font

SYNOPSIS

t1disasm [*input* [*output*]]

DESCRIPTION

t1disasm disassembles Adobe Type 1 font programs in either PFA (hexadecimal) or PFB (binary) formats into human-readable form. If the file *output* is not specified output goes to the standard output. If the file *input* is not specified input comes from the standard input.

t1disasm performs eexec and charstring decryption as specified in the “black book”, *Adobe Type 1 Font Format*. Additionally, the charstring binary tokens are expanded into human-readable text form, using the names given in the black book and later documents describing Type 2 opcodes.

EXAMPLES

```
% t1disasm Utopia-Regular.pfb Utopia-Regular.raw
% t1disasm Utopia-Regular.pfa Utopia-Regular.raw
```

In **Subrs** entries in Utopia-Regular.raw will look like

```
dup 5 {
  8 111 vstem
 -12 128 hstem
 707 -20 hstem
  return
}
```

and the **CharStrings** entries like

```
/exclam {
  58 242 hsbw
  6 callsubr
  5 4 callsubr
  63 707 rmoveto
 -54 0 -5 -22 4 -45 rrcurveto
 40 -431 rlineto
 29 hlineto
 42 431 rlineto
 4 45 -5 22 -55 0 rrcurveto
 closepath
 6 4 callsubr
 -719 vmoveto
 243 callsubr
 endchar
}|-
```

SEE ALSO

t1asm(1), **t1ascii(1)**, **t1binary(1)**, **t1unmac(1)**, **t1mac(1)**

Adobe Type 1 Font Format is available free from Adobe as a PDF file: http://partners.adobe.com/asn/developer/PDFS/TN/T1_SPEC.PDF

The Type 2 Charstring Format, also available from Adobe as a PDF file, describes the newer Type 2 operators, which are also used in some multiple-master Type 1 fonts like Adobe Jenson

and Kepler: <http://partners.adobe.com/asn/developer/PDFS/TN/5177.Type2.pdf>

AUTHORS

Lee Hetherington (ilh@lcs.mit.edu)

Eddie Kohler (kohler@icir.org)