

NAME

`t1asm` – assemble PostScript Type 1 font

SYNOPSIS

`t1asm [-a|-b] [-l length] [input [output]]`

DESCRIPTION

`t1asm` assembles Adobe Type 1 font programs into either PFA (hexadecimal) or PFB (binary) formats from a 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.

`t1asm` tokenizes the charstring data and performs eexec and charstring encryption as specified in the “black book,” *Adobe Type 1 Font Format*.

The input must have a line of the form

```
/{string currentfile exch readstring pop}executeonly def
```

which defines the command, in this case ‘-|’, that is to start charstring data. It is an error not to define such a command. Another common name for this command is ‘RD’.

After the start of the **Subrs** array in the input, all open braces ‘{’ not in a comment begin a charstring. Such a charstring is terminated by the next non-comment close brace ‘}’. Within such a charstring, only comments, integers, and valid charstring commands are allowed. Valid charstring command names can be found in *Adobe Type 1 Font Format* and other documents describing the newer Type 2 opcodes. The format within a charstring is unimportant as long as integers and commands are separated by at least a one whitespace (space, tab, newline) character. Note that within charstrings, comments are discarded because they cannot be encoded.

OPTIONS

`--pfa, -a`

Output in PFA (ASCII) format.

`--pfb, -b`

Output in PFB (binary) format. This is the default.

`--block-length=num, -l num`

PFB only: Set the maximum output block length to *num*. The default length is as large as memory allows.

`--line-length=num, -l num`

PFA only: Set the maximum length of encrypted lines in the output to *num*. (These are the lines consisting wholly of hexadecimal digits.) The default is 64.

EXAMPLES

```
% t1asm Utopia-Regular.raw > Utopia-Regular.pfb
```

```
% t1asm -a Utopia-Regular.raw > Utopia-Regular.pfa
```

SEE ALSO

`t1disasm(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 (ekohler@gmail.com)