

**NAME**

updmap – manage TeX font maps, per-user  
updmap-sys – manage TeX font maps, system-wide

**SYNOPSIS**

**updmap** [*OPTION*] ... [*COMMAND*]  
**updmap-sys** [*OPTION*] ... [*COMMAND*]

**DESCRIPTION**

updmap (TeX Live) version \$Id: updmap.pl 23034 2011-06-17 23:44:39Z karl \$

Update the default font map files used by pdfTeX, dvips, and dvipdfm(x), as determined by the configuration file updmap.cfg (the one returned by running "kpsewhich updmap.cfg").

Among other things, these map files are used to determine which fonts should be used as bitmaps and which as outlines, and to determine which fonts are included in the output.

By default, the TeX filename database (ls-R) is also updated.

**OPTIONS**

**--cnffile** FILE  
    read FILE for the updmap configuration

**--dvipsoutputdir** DIR  
    specify output directory (dvips syntax)

**--pdftexoutputdir** DIR  
    specify output directory (pdfTeX syntax)

**--outputdir** DIR  
    specify output directory (for all files)

**--copy**  
    cp generic files rather than using symlinks

**--force**  
    recreate files even if config hasn't changed

**--nomkmap**  
    do not recreate map files

**--nohash**  
    do not run texhash

**-n, --dry-run**  
    only show the configuration, no output

**--quiet, --silent**  
    reduce verbosity

**Commands:**

**--help** show this message and exit

**--version**  
    show version information and exit

**--showoptions** ITEM  
    show alternatives for options

- setoption** OPTION VALUE  
set option, where OPTION is one of: LW35, dvipsPreferOutline, dvipsDownloadBase35, or pdftexDownloadBase14
- setoption** OPTION=VALUE  
as above, just different syntax
- enable** MAPTYPE MAPFILE  
add "MAPTYPE MAPFILE" to updmap.cfg, where MAPTYPE is either Map or MixedMap
- enable** Map=MAPFILE  
add "Map MAPFILE" to updmap.cfg
- enable** MixedMap=MAPFILE add "MixedMap MAPFILE" to updmap.cfg
- disable** MAPFILE  
disable MAPFILE, whether Map or MixedMap
- listmaps**  
list all active and inactive maps
- listavailablemaps**  
same as **---listmaps**, but without unavailable map files
- syncwithtrees**  
disable unavailable map files in updmap.cfg

Explanation of the map types: the (only) difference between Map and MixedMap is that MixedMap entries are not added to psfonts\_pk.map. The purpose is to help users with printers that render Type 1 outline fonts worse than mode-tuned Type 1 bitmap fonts. So, MixedMap is used for fonts that are available as both Type 1 and Metafont.

Explanation of the **---setoption** possibilities:

**dvipsPreferOutline**

true|false (default true)

Whether dvips uses bitmaps or outlines, when both are available.

**dvipsDownloadBase35**

true|false (default false)

Whether dvips includes the standard 35 PostScript fonts in its output.

**pdftexDownloadBase14**

true|false (default true)

Whether pdftex includes the standard 14 PDF fonts in its output.

**LW35** URWkb|URW|ADOBEmb|ADOBE (default URWkb)

Adapt the font and file names of the standard 35 PostScript fonts. URWkb URW fonts with "berry" filenames (e.g. uhvbo8ac.pfb) URW URW fonts with "vendor" filenames (e.g. n019064l.pfb) ADOBEb Adobe fonts with "berry" filenames (e.g. phvbo8an.pfb) ADOBE Adobe fonts with "vendor" filenames (e.g. hvnbo\_\_\_\_.pfb)

These options are only read and acted on by updmap; dvips, pdftex, etc., do not know anything about them. They work by changing the default map file which the programs read, so they can be overridden by specifying command-line options or configuration

files to the programs, as explained at the beginning of `updmap.cfg`.

## ENVIRONMENT

Explanation of trees and files normally used:

`updmap` both reads and writes `TEXMFCONFIG/web2c/updmap.cfg`, according to the actions specified.

`updmap` writes the map files for `dvips` (`psfonts.map`) and `pdftex` (`pdftex.map`) to the `TEXMFVAR/fonts/map/updmap/{dvips,pdftex}/` directories.

The log file is written to `TEXMFVAR/web2c/updmap.log`.

When `updmap-sys` is run, `TEXMFSYSCONFIG` and `TEXMFSYSVAR` are used instead. This is the only difference between `updmap-sys` and `updmap`.

Other locations can be used if overridden on the command line, or these trees don't exist, or you are not using the original TeX Live.

To see the precise locations of the various files that will be read and written, give the `-n` option (or read the man page).

## EXAMPLES

For step-by-step instructions on making new fonts known to TeX, read <http://tug.org/fonts/fontinstall.html>. For even more terse instructions, read the beginning of `updmap.cfg`.

## FILES

Configuration and input files:

*updmap.cfg*

Main configuration file. In *texmf/web2c* by default, but may be located elsewhere depending on your distribution.

*dvips35.map*

Map file for standard 35 PostScript fonts for use with **dvips**(1).

*pdftex35.map*

Map file for standard 35 PostScript fonts for use with **pdftex**(1).

*ps2pk35.map*

Map file for standard 35 PostScript fonts for use with **ps2pk**(1).

Output files:

*psfonts.map*

For **dvips**(1). Same as *psfonts\_t1.map* if option **dvipsPreferOutline** active, else as *psfonts\_pk.map*.

*psfonts\_pk.map*

For **dvips**(1). Without information from MixedMap files. (Setting of **dvipsPreferOutline** ignored.)

*psfonts\_t1.map*

For **dvips**(1). With information from MixedMap files. (Setting of **dvipsPreferOutline** ignored.)

*download35.map*

For **dvips**(1). Always downloads the standard 35 fonts. (Setting of **dvipsDownloadBase35** ignored.)

*builtin35.map*

For **dvips**(1). Never downloads the standard 35 fonts. (Setting of **dvipsDownloadBase35** ignored.)

*pdftex.map*

For **pdftex**(1). Same as *pdftex\_dl14.map* if option **pdftexDownloadBase14** active, else as *pdftex\_ndl14.map*.

*pdftex\_dl14.map*

For **pdftex**(1). Always downloads the standard 14 fonts.

*pdftex\_ndl14.map*

For **pdftex**(1). Never downloads the standard 14 fonts.

*ps2pk.map*

Similar to *psfonts.map* file, but forces all fonts to be downloaded, so this map file can be used with **xdvi**(1) and **ps2pk**(1).

Configuration files for **dvips**(1):

*config.builtin35*

Loads *builtin35.map* instead of *psfonts.map*.

*config.download35*

Loads *download35.map* instead of *psfonts.map*.

*config.outline*

Loads *psfonts\_t1.map* instead of *psfonts.map*.

*config.pdf*

Loads *psfonts\_t1.map* instead of *psfonts.map* and has additional optimizations for PDF generation.

*config.pk*

Loads *psfonts\_pk.map* instead of *psfonts.map*.

*config.www*

Loads *psfonts\_t1.map* instead of *psfonts.map*. (For compatibility with old versions.)

*config.gstopk*

Loads *psfonts\_t1.map* instead of *psfonts.map*.

## REPORTING BUGS

Report bugs to: [tex-k@tug.org](mailto:tex-k@tug.org)

TeX Live home page: <http://tug.org/texlive/>