

**NAME**

aleph – extended Unicode TeX

**SYNOPSIS**

**aleph** [*options*] [**&format**] [*file*|\*commands*]

**DESCRIPTION**

Run the Aleph typesetter on *file*, usually creating *file.dvi*. If the file argument has no extension, ".tex" will be appended to it. Instead of a filename, a set of Aleph commands can be given, the first of which must start with a backslash. With a **&format** argument Aleph uses a different set of precompiled commands, contained in *format.fmt*; it is usually better to use the **-fmt** *format* option instead.

Aleph is a version of the T<sub>E</sub>X program modified for multilingual typesetting. It uses Unicode, and has additional primitives for (among other things) bidirectional typesetting.

Aleph's command line options are similar to those of T<sub>E</sub>X.

Aleph is no longer being actively developed; see LuaTeX for current activity.

**OPTIONS**

Run aleph --help to see the complete list of options; this is not exhaustive.

**-cnf-line** *string*

Parse *string* as a *texmf.cnf* configuration line. See the Kpathsea manual.

**--fmt** *format*

Use *format* as the name of the format to be used, instead of the name by which Aleph was called or a %& line.

**--halt-on-error**

Exit with an error code when an error is encountered during processing.

**--help** Print help message and exit.**--ini** Be 'initial' Aleph for dumping formats; this is implicitly true if the program is called as **inialeph**.**--interaction** *mode*

Sets the interaction mode. The mode can be one of *batchmode*, *nonstopmode*, *scrollmode*, and *errorstopmode*. The meaning of these modes is the same as that of the corresponding \commands.

**--ipc** Send DVI output to a socket as well as the usual output file. Whether this option is available is the choice of the installer.**--ipc-start**

As **--ipc**, and starts the server at the other end as well. Whether this option is available is the choice of the installer.

**--kpathsea-debug** *bitmask*

Sets path searching debugging flags according to the bitmask. See the *Kpathsea* manual for details.

**--maketex** *fnt*

Enable mktex *fnt*, where *fnt* must be one of *tex* or *tfm*.

**--no-maketex *fmt***

Disable `mktex fmt`, where *fmt* must be one of *tex* or *tfm*.

**--output-comment *string***

Use *string* for the DVI file comment instead of the date.

**--output-directory *directory***

Write output files in *directory* instead of the current directory. Look up input files in *directory* first, then along the normal search path.

**--parse-first-line**

If the first line of the main input file begins with `%&` parse it to look for a dump name.

**--progrname *name***

Pretend to be program *name*. This affects both the format used and the search paths.

**--recorder**

Enable the filename recorder. This leaves a trace of the files opened for input and output in a file with extension *.ofl*. (This option is always on.)

**--shell-escape**

Enable the `\write18{command}` construct. The *command* can be any Bourne shell command. By default, this construct is enabled in a restricted mode, for security reasons.

**--version**

Print version information and exit.

**ENVIRONMENT**

See the Kpathsearch library documentation (the ‘Path specifications’ node) for precise details of how the environment variables are used. The **kpsewhich** utility can be used to query the values of the variables.

One caveat: In most Aleph formats, you cannot use `~` in a filename you give directly to Aleph, because `~` is an active character, and hence is expanded, not taken as part of the filename. Other programs, such as Metafont, do not have this problem.

**TEXMFOUTPUT**

Normally, Aleph puts its output files in the current directory. If any output file cannot be opened there, it tries to open it in the directory specified in the environment variable `TEXMFOUTPUT`. There is no default value for that variable. For example, if you say *tex paper* and the current directory is not writable, if `TEXMFOUTPUT` has the value */tmp*, Aleph attempts to create */tmp/paper.log* (and */tmp/paper.dvi*, if any output is produced.) `TEXMFOUTPUT` is also checked for input files, as  $\TeX$  often generates files that need to be subsequently read; for input, no suffixes (such as “.tex”) are added by default, the input name is simply checked as given.

**TEXINPUTS**

Search path for `\input` and `\openin` files. This should start with “.”, so that user files are found before system files. An empty path component will be replaced with the paths defined in the *texmf.cnf* file. For example, set `TEXINPUTS` to “./home/user/tex:” to prepend the current directory and “/home/user/tex” to the standard search path.

**TEXEDIT**

Command template for switching to editor. The default, usually **vi**, is set when Aleph is compiled.

**NOTES**

This manual page is not meant to be exhaustive. The complete documentation for this version of Aleph can be found in the info manual *Web2C: A TeX implementation*. See <http://tug.org/web2c>.

**BUGS**

This version of Aleph implements a number of optional extensions. In fact, many of these extensions conflict to a greater or lesser extent with the definition of Aleph. When such extensions are enabled, the banner printed when Aleph starts is changed to print **Alephk** instead of **Aleph**.

This version of Aleph fails to trap arithmetic overflow when dimensions are added or subtracted. Cases where this occurs are rare, but when it does the generated *DVI* file will be invalid.

**SEE ALSO**

**tex(1)**, **mf(1)**

**AUTHORS**

The primary authors of Aleph are John Plaice and Yannis Haralambous.