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Running cadiz—command-line options and environment

[/Reference manual](#)

1. SYNOPSIS

```
cadiz [ options ] file.z
```

2. DESCRIPTION

cadiz checks Z specifications for type correctness, and typesets them using **troff**. The input `file.z` can be written using either a \LaTeX or troff mark-up. The output typeset specification is left in `file.dit` for future previewing or printing. By default, any error reports about the specification are written to the standard output. Alternatively, options are provided to request typesetting and previewing of the error reports on a workstation having a bit-map screen; a previewer for the specification can also be requested. If both previewers are requested, the mouse can be used to select and inspect formulae of interest.

3. OPTIONS

Any unrecognised options are forwarded to `troff`.

- R*n* Run a particular release of `cadiz`. Must be the first option given. If not given, a release nominated when `cadiz` was installed is run.
- b Browse an already typeset specification. Both previewing windows appear, and the specification is re-checked so that it can be examined.
- e Typeset and preview the error reports, but don't typeset or preview the specification.
- G*geom* Use a particular geometry for the user interface. This affects the sizes and positions of windows on the screen, and the line lengths and margins of the text displayed in those windows. Accepted values of *geom* include `SVGA` and `VGA`. The default assumes a 1280x1024 screen (larger than `SVGA`).
- g Report space usage statistics to the standard error stream.
- h*n* Use *n* kilo-bytes of working space, default 512. Increasing this size will reduce the overall cost of garbage collections, but on a small or overloaded machine may lose through increased paging. May be worth using on a big machine at the start of a big session.
- j Log copies of the `troff` input streams in `/tmp/cadiz$$` files. (j for journals.)
- k Keep the abstract syntax built for this file in `file.k`. (See option -l.)

- l *file* Load abstract syntax from file *file.k* to speed imports of its documents and of its imported documents. Only one -l option may be given. The default is to load the mathematical toolkit [Spivey92]; use -l (no *file*) to start from just core Z.
- p Typeset and preview the specification, but not any error reports.
- P As -x, but additionally offer a third window showing a proof tree. (P for prove.)
- S Replay all proof scripts of named conjectures and proof obligations, and report their validity. Successful proof scripts are touched (their last modification date is revised) as an indication to the *scriptmanager* command; the original dates of recording are still available within the scripts.
- t Report the types of all declarations.
- UTF8 | -UTF16BE | -UCS4 Specifies the encoding to use for interchanging UCS characters with auxiliary tools, default UTF8.
- v Verify only: don't typeset or preview the specification or the error reports.
- V Report which version of cadiz is being run.
- w Silence warning messages.
- ws Issue warnings about use of non-standard Z. (Silenced by -w.)
- x Typeset and browse the specification. The specification and any reports about it appear in two separate windows. (x for examine.)

-z Omit typesetting the explanatory text between the formal parts of the document.

4. ENVIRONMENT

ARCH specifies the processor architecture on which **cadiz** is to be executed. Unless you are accessing **cadiz** remotely in a heterogeneous computing network, the default is likely to be appropriate. Recognised values include **irix6**, **solaris2** and **i486**.

CADIZ names the directory in which **CADiZ** is installed. In particular, executables are kept in **\$CADIZ/mip/bin**. If that directory is in your **\$PATH**, then it is not necessary to set the **CADIZ** variable.

CADIZPATH is a search path of directories in which **cadiz** will look for files. **cadiz** looks in the directory of toolkits **\$CADIZ/mip/kits/\$MARKUP** first, then any directories given by **\$CADIZPATH**, and lastly in the current directory.

DISPLAY specifies the X server of the screen on which the previewing windows should appear. If that is serving a different screen, or a different user, then it may be necessary to grant permission explicitly, perhaps using the **xhost** command.

MARKUP should be either **latex** or **groff**. This determines which parser **cadiz** uses. It defaults to **groff**.



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TMP names the directory where typeset errors and proof trees are held while they are previewed. It defaults to `/usr/tmp`. The typeset specification is also placed there if write permission is denied on the current directory.

5. EXIT STATUS

The exit status of `cadiz` is

- 0** if no errors are detected in the entire specification,
- 1** if some errors are detected in the specification,
- 2** if `cadiz` detects something amiss with itself.

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