

What does CADiZ do?

CADiZ is a set of free software tools that aims to give direct support to use of ISO Standard Z notation. Compared to the notation of the Z Reference Manual of 1992, ISO Standard Z provides some [useful generalisations](#). CADiZ has only minor [deviations](#) from the latest draft of the ISO Z standard, and resolves the looseness in that standard in [documented ways](#).

The CADiZ toolset provides:

- [syntax](#), [scope](#) and [type](#) checking;
- [typesetting](#);
- [interactive browsing](#);
- [interactive proof of conjectures](#), based on 3 axioms and about 400 inference rules for core Z;
- decision procedures: [SUP-INF](#); [simulated annealing](#); [model checking](#); [resolution](#);
- [expansion of schemas](#), automated using inference rules;
- [a tactic language](#);
- [application program interface](#);
- [an elementary refinement editor](#);



- etc.

Page 2 of 2



Go Back

Full Screen

Close

Quit

A Z specification is prepared for processing by CADiZ using your favourite ASCII text editor, where mathematical symbols are represented by names in either \LaTeX or troff mark-up. So you don't have to learn a new editor to use CADiZ.

By direct support, we mean that the tools manipulate Z itself, not some other notation into which Z would be translated, so there is no risk of exposing an underlying notation that might bewilder a user.

Future improvements that we foresee for CADiZ, given time (and funding), are listed under [further work](#).

IT 27-Nov-2000