

Type reports

[/What does CADiZ do?](#)

This page is intended just to be skimmed through to give a flavour of what cadiz does. It lists the type reports that may be emitted by cadiz about Z. The reports are accompanied by the conflicting types, in addition to information about where the mistake is. The list is not guaranteed to be up-to-date. There is a separate tutorial on [correcting errors in Z specifications](#).

Expression is of wrong type for substitution

Expression_list is of unexpected type

Tuple extension has inappropriate type in this context

Expression denoting a type must be a set

Inclusion should be a set of bindings

Expression used as predicate is not a schema

Multiple declarations at different types

Component in theta declared with different type in environment

Component in schema predicate declared with different type in environment

Theta expression has inappropriate type in this context

Schema predicate has inappropriate type in this context

Expression has different type to selected component of tuple

Expression in tuple selection is not a tuple

Selected component is inappropriate in this context

Expression in binding selection is not a binding

Lambda expression has inappropriate type in this context

Reference has inappropriate type in this context
 Generic instantiation expression has inappropriate type in this context
 Relation's type should be set of operand's type
 Function in application expression has inappropriate type
 Decoration expression has inappropriate type in this context
 Logical schema expression has inappropriate type in this context
 Schema composition expression has inappropriate type in this context
 Declaration has inappropriate type in this context
 Binding extension expression has inappropriate type in this context
 Schema renaming expression has inappropriate type in this context
 Schema precondition expression has inappropriate type in this context
 Schema postcondition expression has inappropriate type in this context
 Schema piping expression has inappropriate type in this context
 Schema projection expression has inappropriate type in this context
 Schema overriding expression has inappropriate type in this context
 Schema quantification expression has inappropriate type in this context
 Schema hiding expression has inappropriate type in this context
 Undecoration expression has inappropriate type in this context
 Schema construction expression has inappropriate type in this context
 Quantification has inconsistent type
 Composed declarations have inconsistent types
 Piped declarations have inconsistent types
 Projected declaration has inconsistent type
 Type of expression not completely specified
 Generic actual should be a set
 Operand of theta should be a schema

Set comprehension has inappropriate type in this context
 Definite description has inappropriate type in this context
 Substitution has inappropriate type in this context
 Element of set extension has different type from first element
 Set extension has inappropriate type in this context
 Expression in Cartesian product should be a set
 Cartesian product has inappropriate type in this context
 Operand of powerset should be a set
 Powerset has inappropriate type in this context
 Number literal has inappropriate type in this context
 String literal has inappropriate type in this context
 Conditional's then and else parts should have same types
 Conditional has inappropriate type in this context
 Expression being decorated should be a schema
 Expression being undecorated should be a schema
 Expression being renamed should be a schema
 Expression being negated should be a schema
 Negation has inappropriate type in this context
 Operand of pre should be a schema
 Operand of post should be a schema
 Left operand of logical schema operator should be a schema
 Right operand of logical schema operator should be a schema
 Left operand of schema composition should be a schema
 Right operand of schema composition should be a schema
 Left operand of schema piping should be a schema
 Right operand of schema piping should be a schema

Left operand of schema projection should be a schema
Right operand of schema projection should be a schema
Left operand of schema overriding should be a schema
Right operand of schema overriding should be a schema
Spot part of quantified schema should be a schema
Left operand of schema hiding should be a schema
Type of declaration is inappropriate for this operator

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