

# CIF 3, number 9103

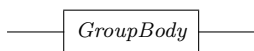
This document covers the textual syntax of CIF 3. It consists of so called rail road diagrams, which are automatically generated from the parser rules.

Terminal syntax:

- **Number** is an unsigned decimal number without 0 prefix (eg '12345') or 0 itself;
- **RealNumber** is an unsigned real number (eg '1.3', '1e5' or '1.3e-5');
- **String** is text bewteen double quotes ("). It may not contain new lines. No escape sequences are recognized. This means that new lines are and double quotes can not occur in strings. However, they should not occur in sane filenames anyway. Omitting the backslash escaped sequences allows using Windows paths directly;
- **Identifier** is a letter or underscore, optionally followed by more letters, digits, or underscore characters (eg '\_abc\_2');
- **RelativeName** is two or more identifiers seperated by a dot character (eg 'x.y.z');
- **AbsoluteName** is an **Identifier** or **RelativeName** prefixed with a '.' (eg '.x.y'). This prevents that names can get hidden. It represents an absolute name from the root of the current scope.
- **RootName** is an **Identifier** or **RelativeName** prefixed with a '^' (eg '^x.y'). This prevents that names can get hidden. It represents an absolute name from the root the current specification.

## 1 Rail diagrams for the current syntax

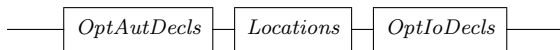
*Specification*



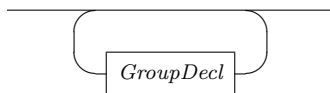
*GroupBody*



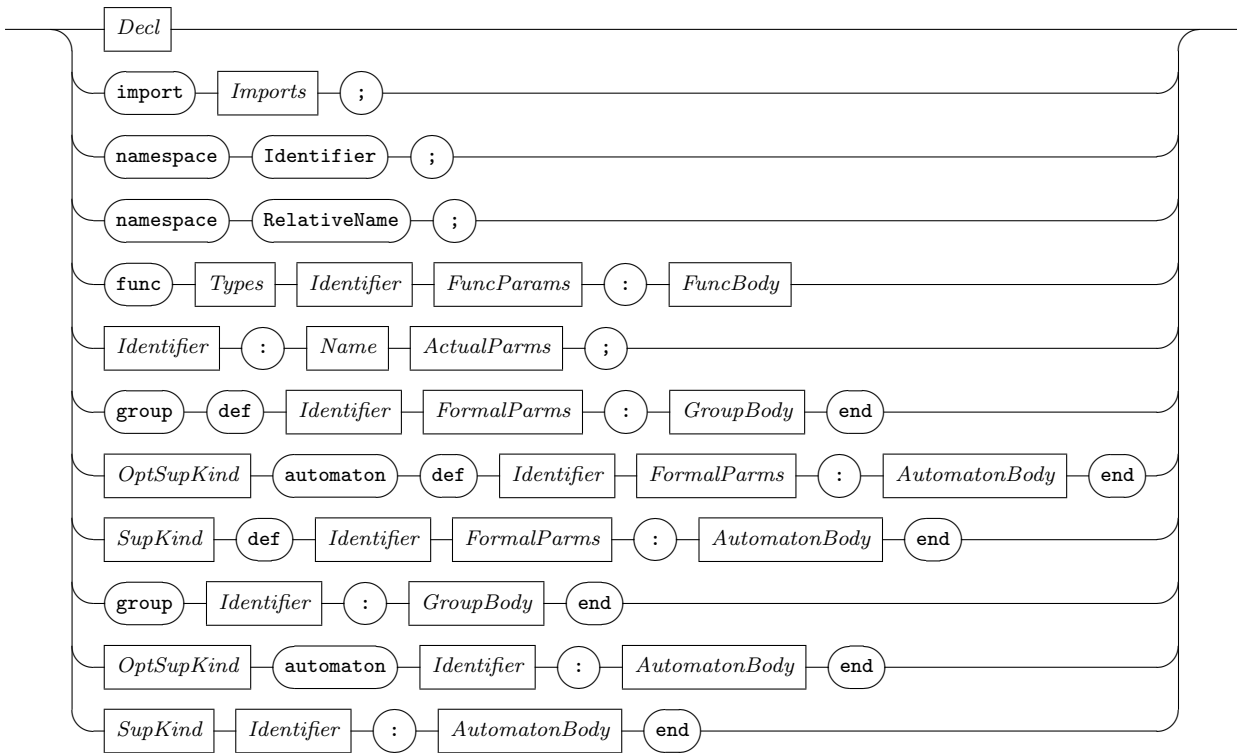
*AutomatonBody*



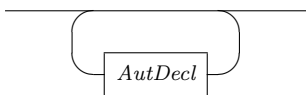
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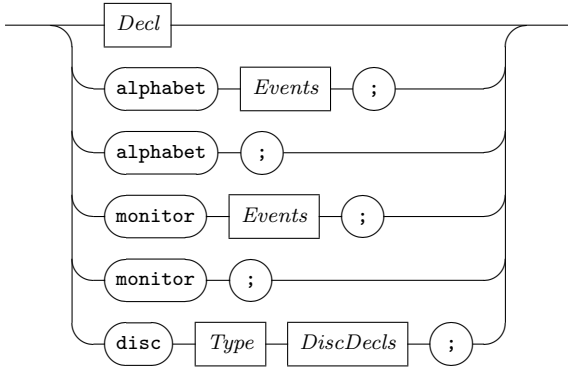
GroupDecl



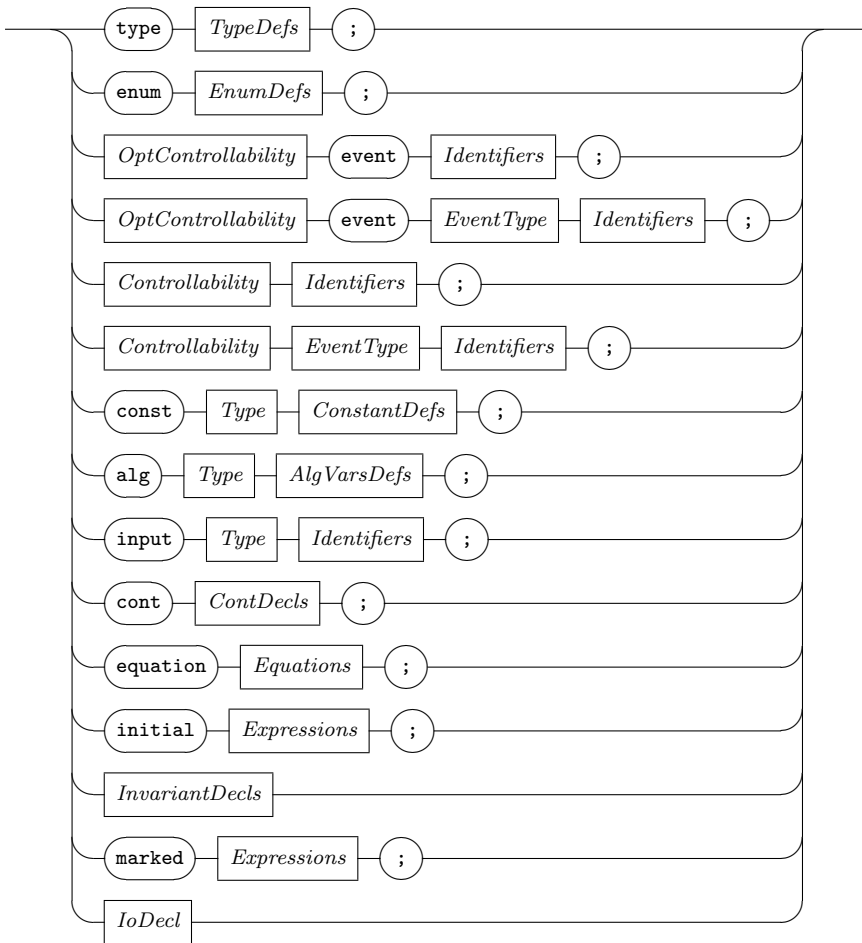
OptAutDecls



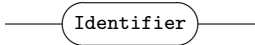
AutDecl



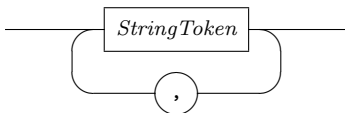
Decl



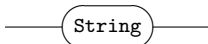
Identifier



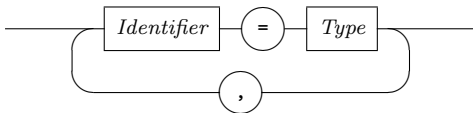
Imports



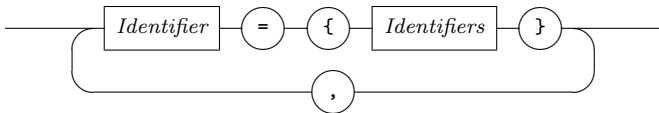
StringToken



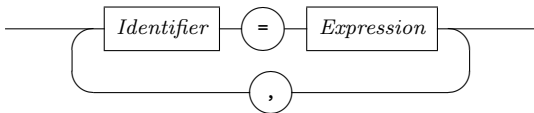
TypeDefs



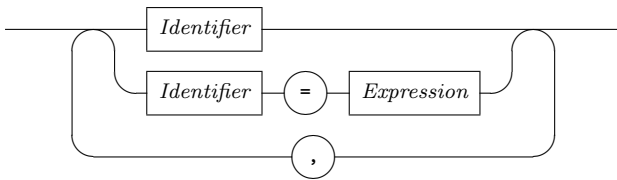
EnumDefs



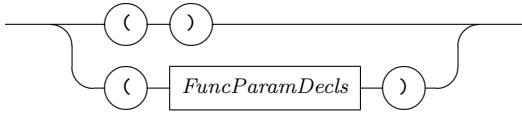
ConstantDefs



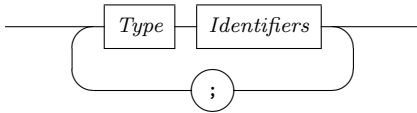
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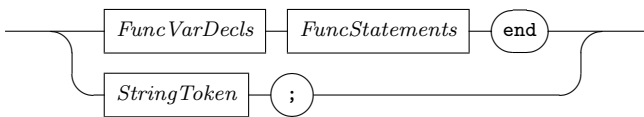
*FuncParams*



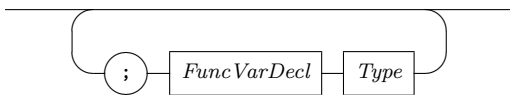
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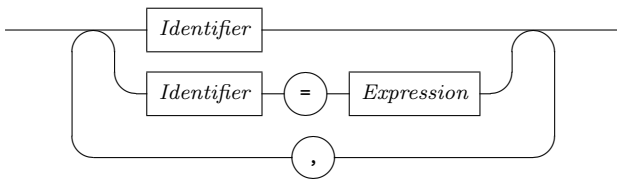
*FuncBody*



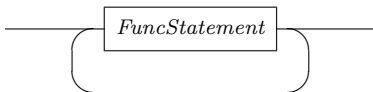
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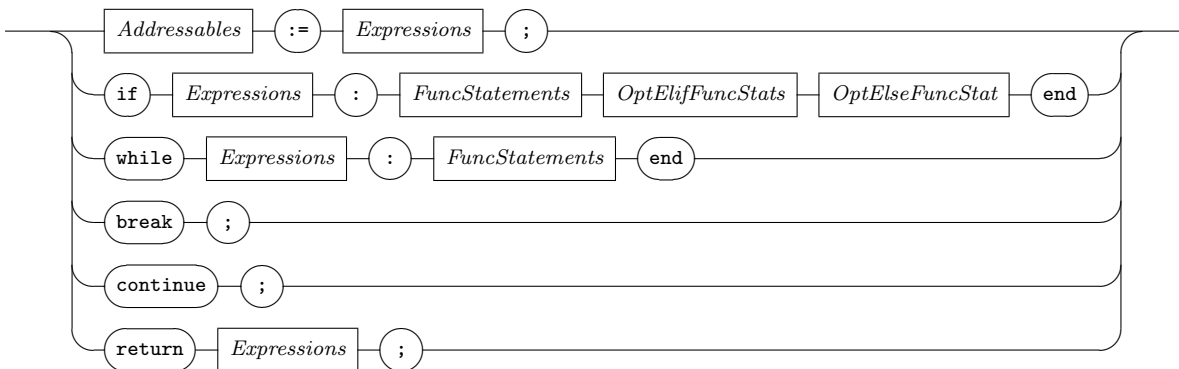
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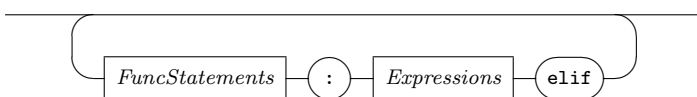
*FuncStatements*



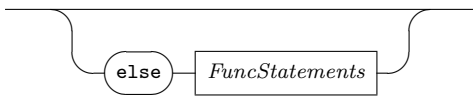
*FuncStatement*



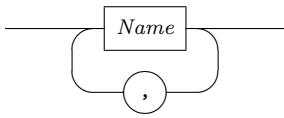
*OptElifFuncStats*



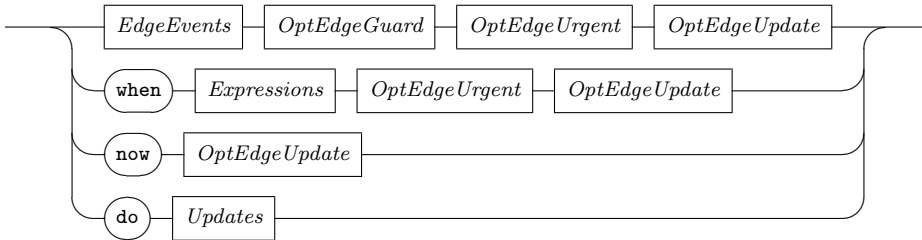
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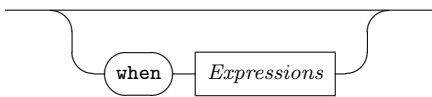
*Events*



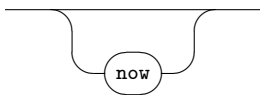
*CoreEdge*



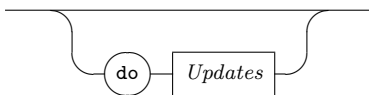
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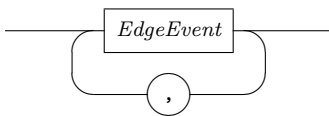
*OptEdgeUrgent*



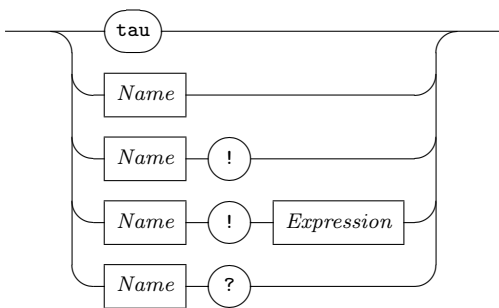
*OptEdgeUpdate*



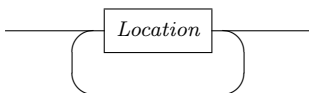
*EdgeEvents*



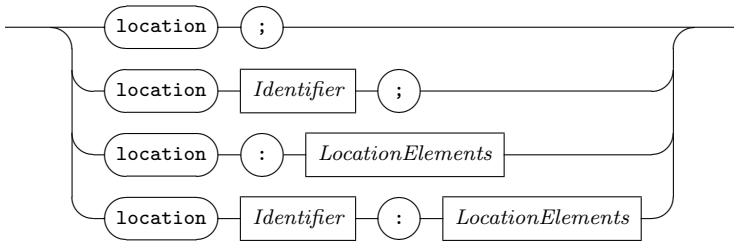
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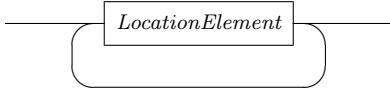
*Locations*



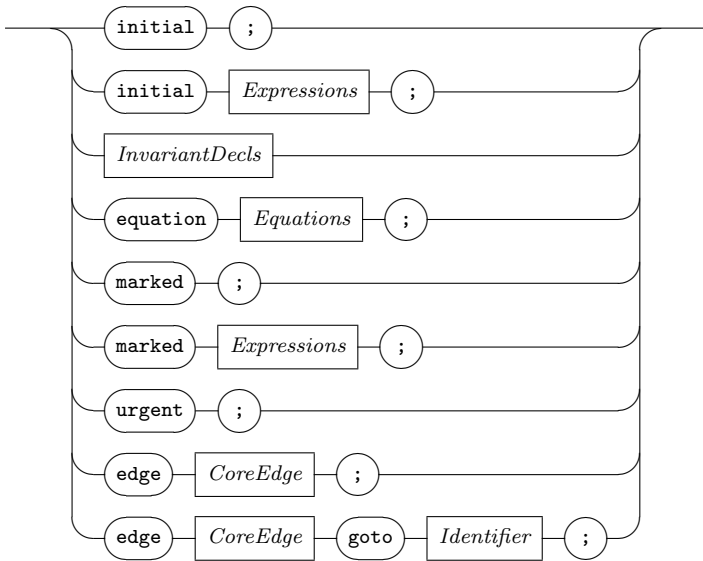
*Location*



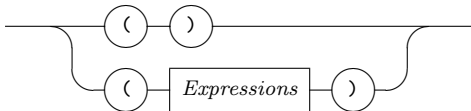
*LocationElements*



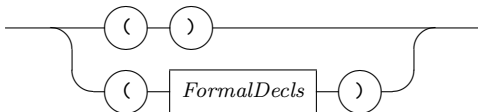
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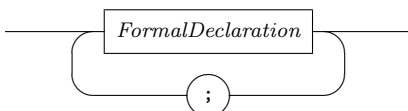
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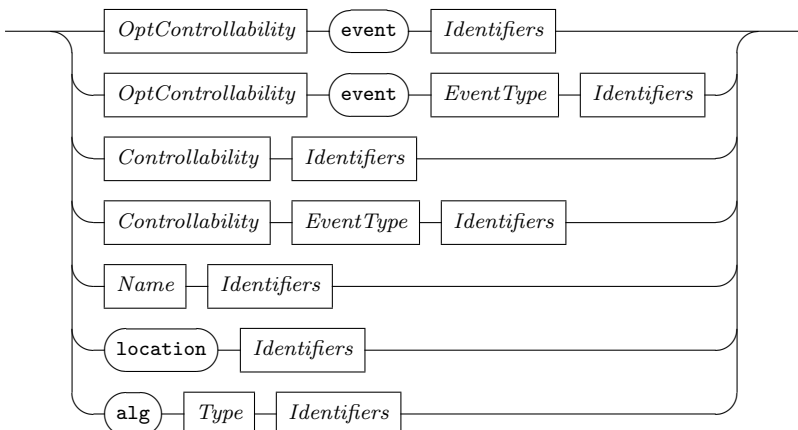
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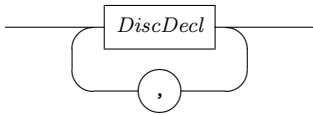
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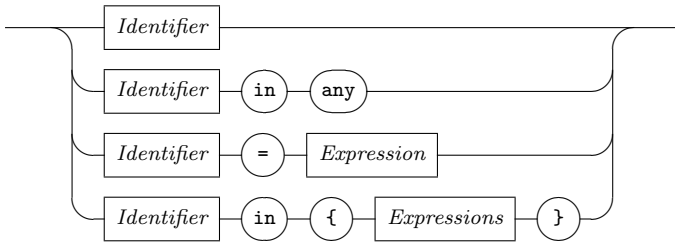
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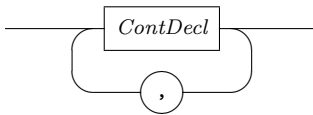
DiscDecls



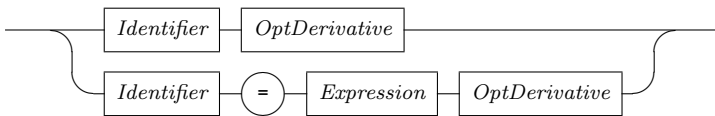
DiscDecl



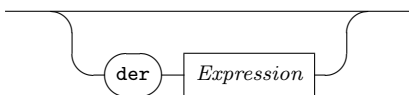
ContDecls



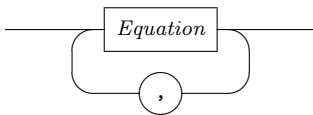
ContDecl



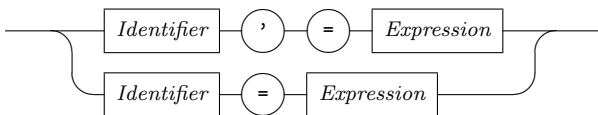
OptDerivative



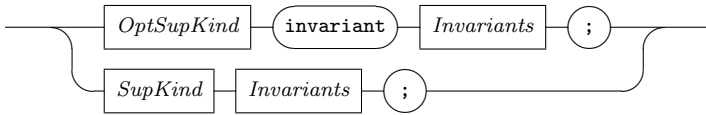
Equations



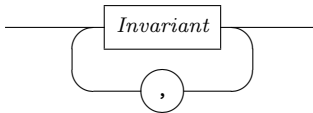
Equation



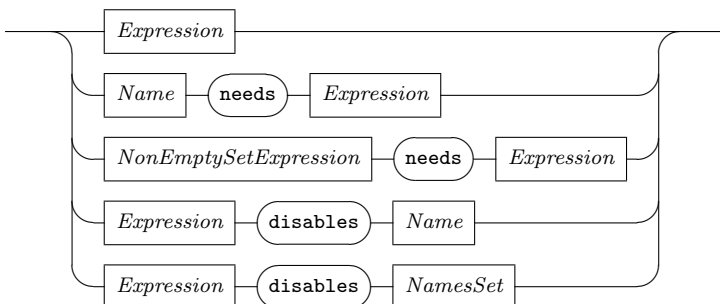
InvariantDecls



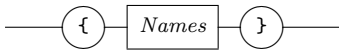
Invariants



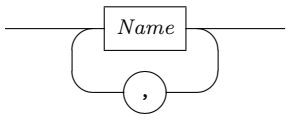
Invariant



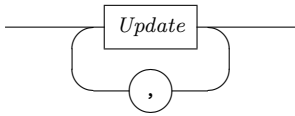
NamesSet



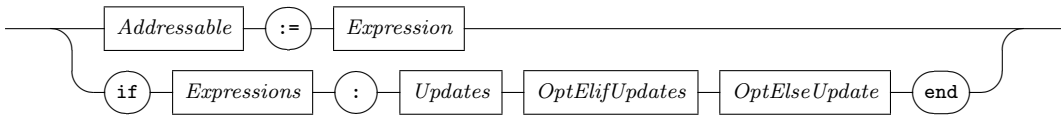
Names



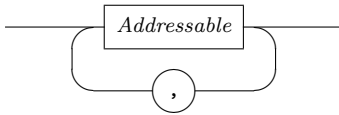
Updates



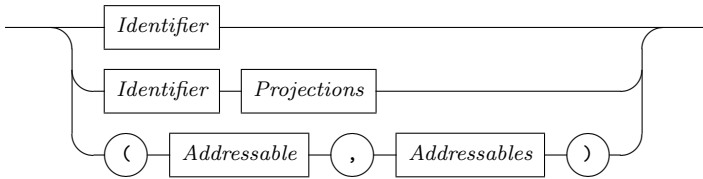
Update



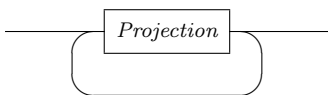
Addressables



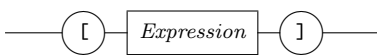
Addressable



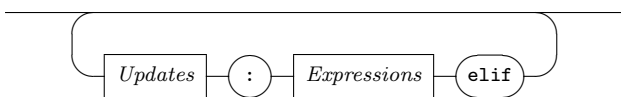
Projections



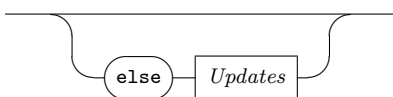
Projection



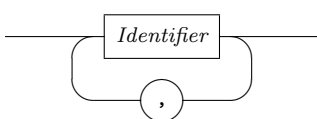
OptElifUpdates



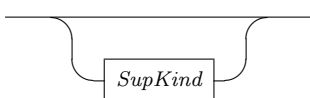
OptElseUpdate



Identifiers

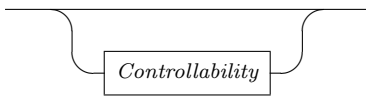


OptSupKind

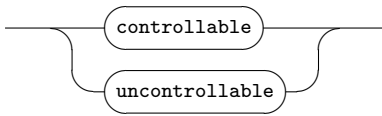




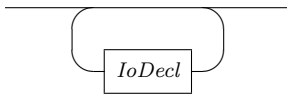
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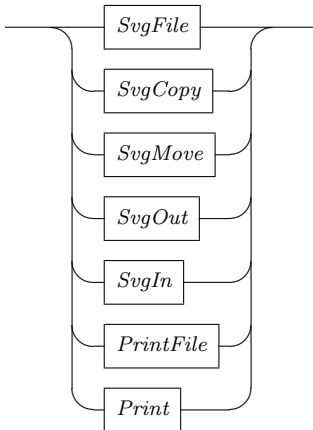
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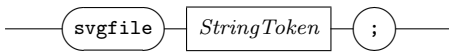
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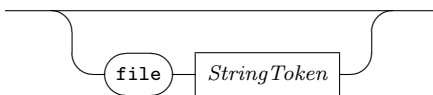
*IoDecl*



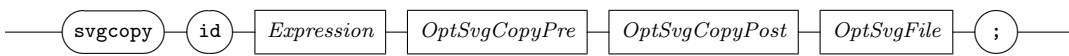
*SvgFile*



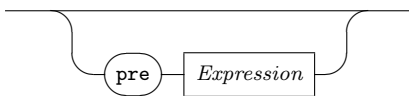
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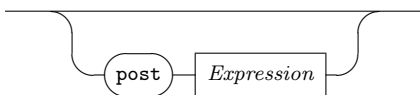
*SvgCopy*



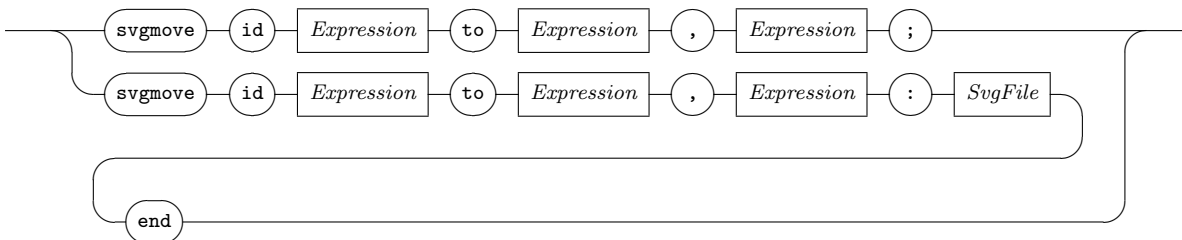
*OptSvgCopyPre*



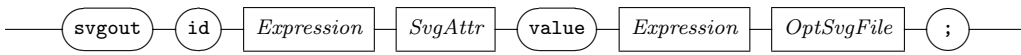
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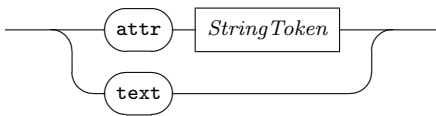
*SvgMove*



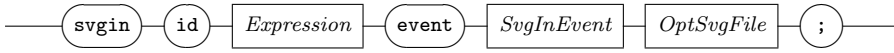
*SvgOut*



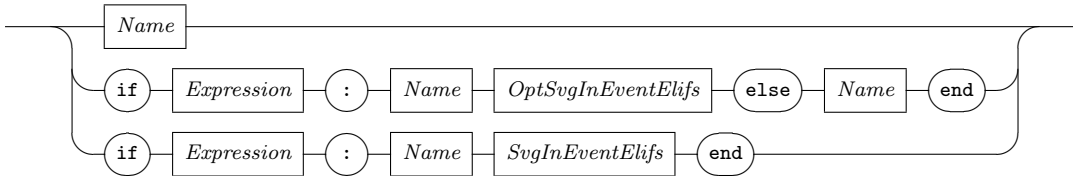
*SvgAttr*



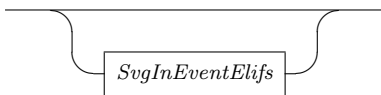
*SvgIn*



*SvgInEvent*



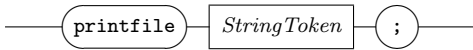
*OptSvgInEventElifs*



*SvgInEventElifs*



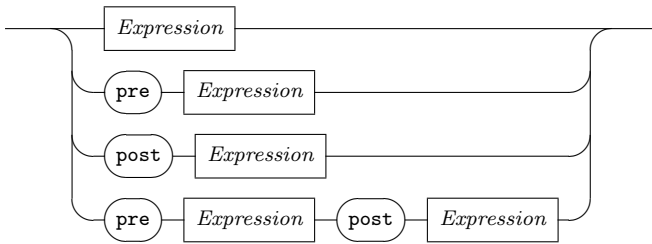
*PrintFile*



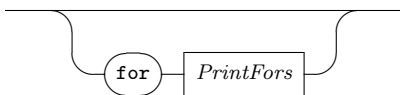
*Print*



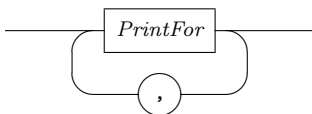
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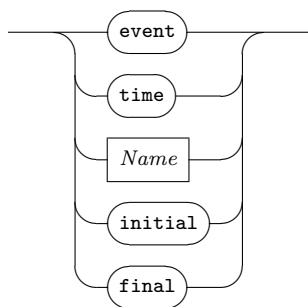
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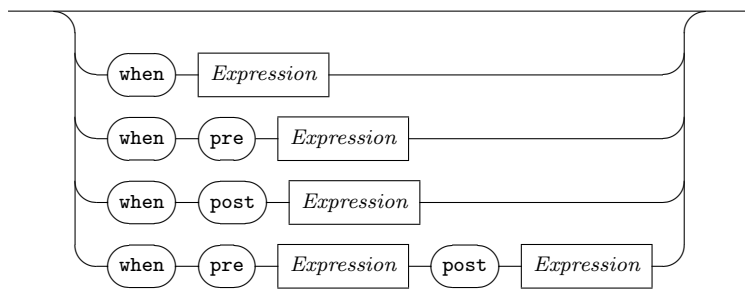
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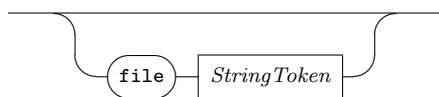
*PrintFor*



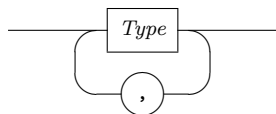
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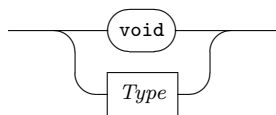
*OptPrintFile*



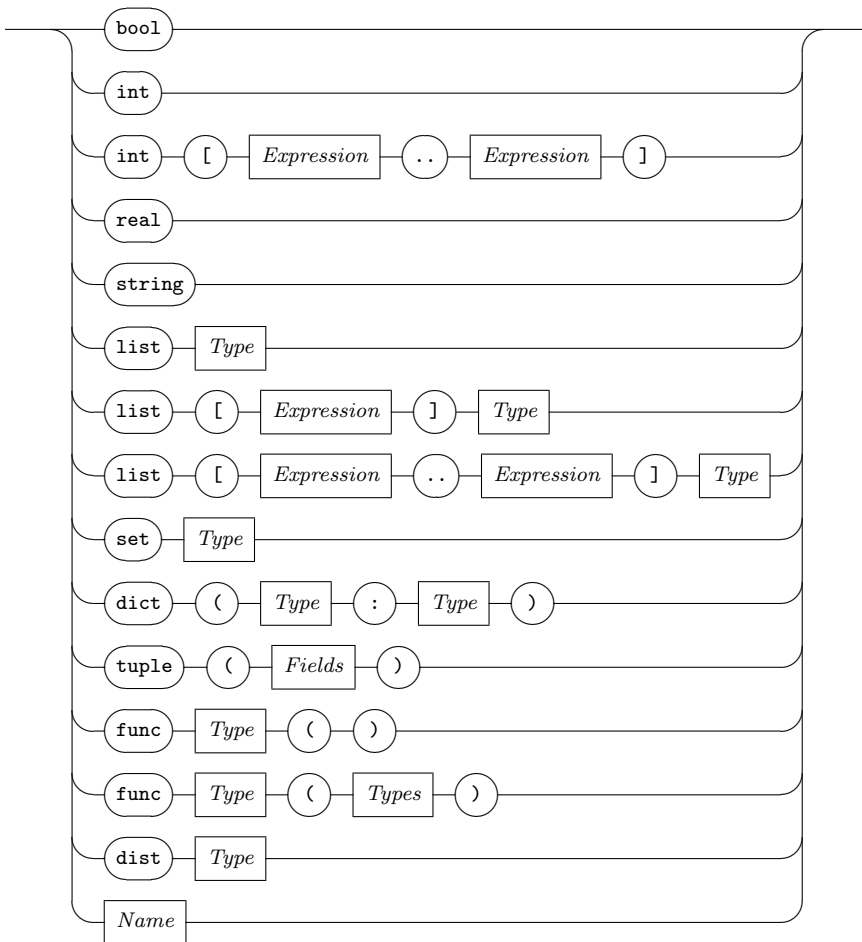
*Types*



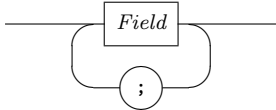
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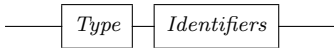
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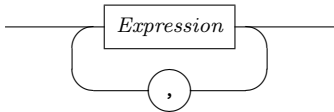
Fields



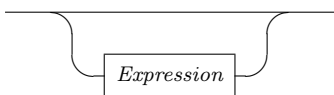
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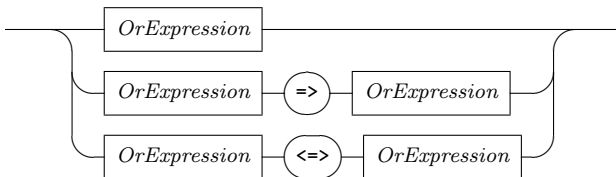
Expressions



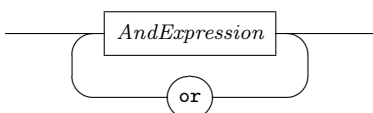
OptExpression



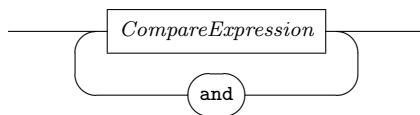
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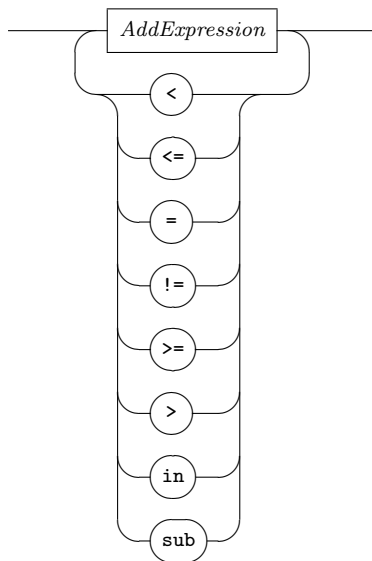
OrExpression



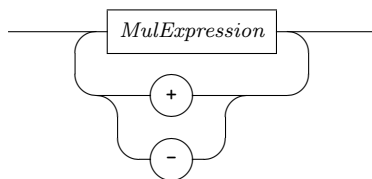
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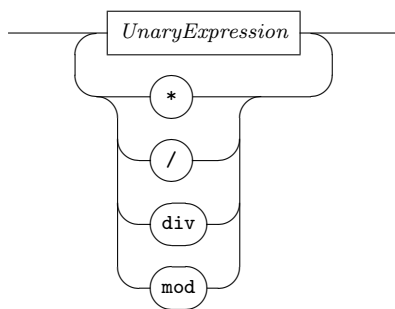
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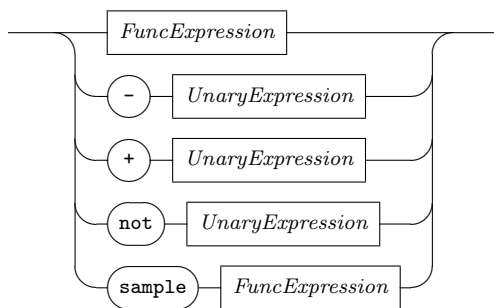
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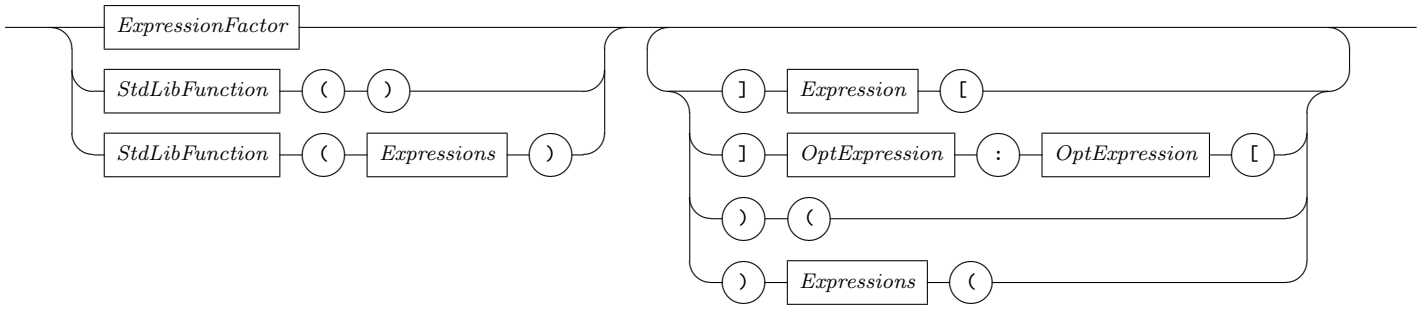
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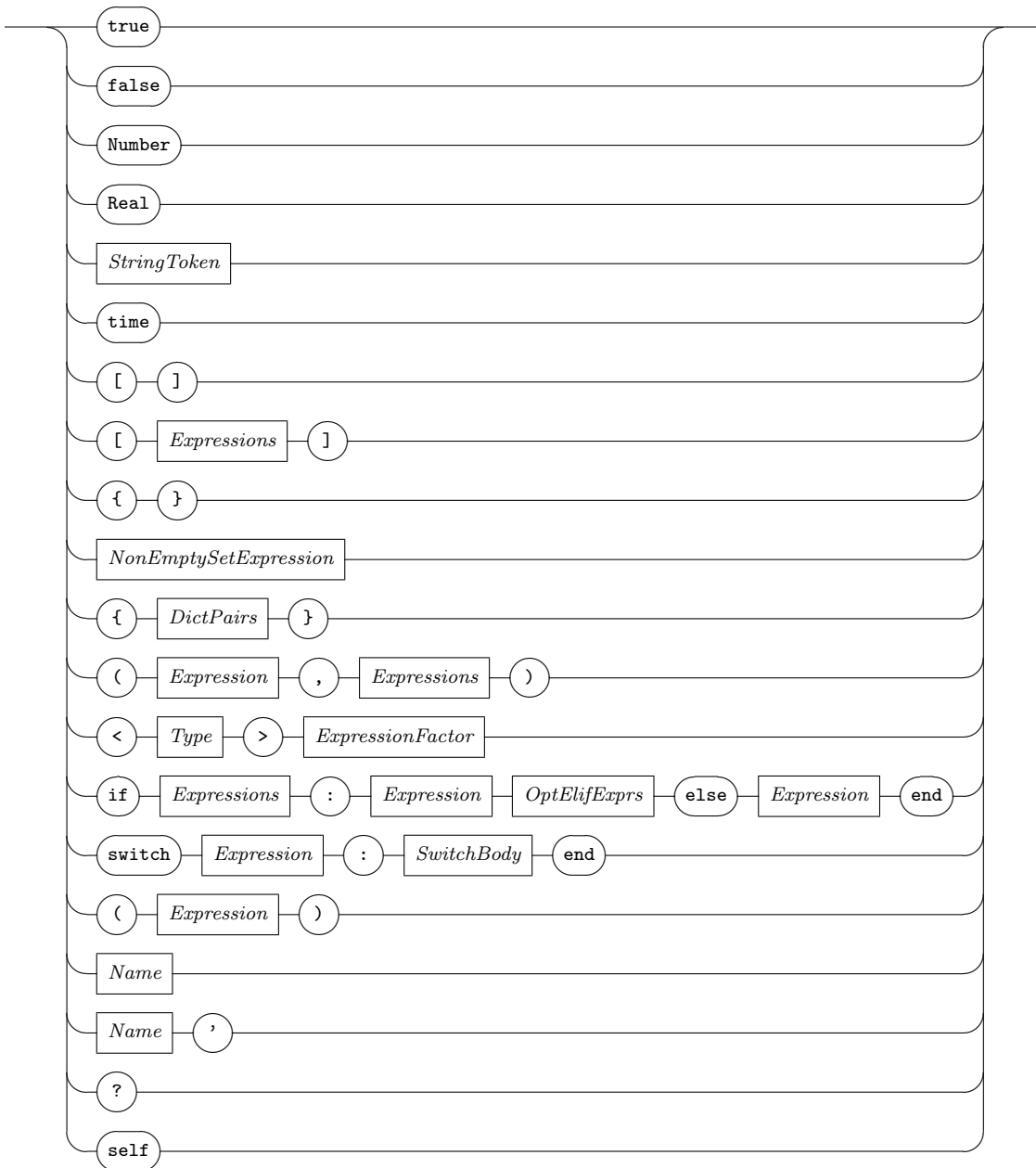
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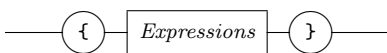
FuncExpression



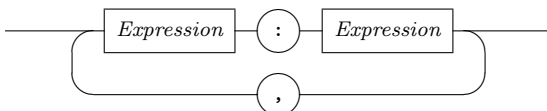
ExpressionFactor



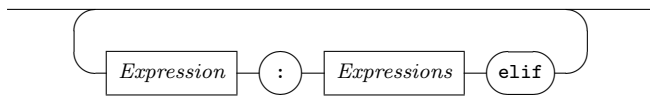
NonEmptySetExpression



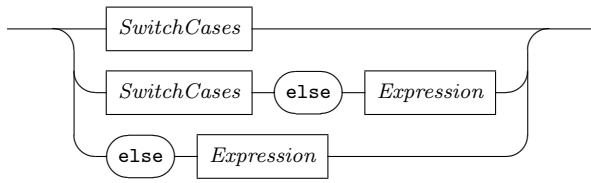
DictPairs



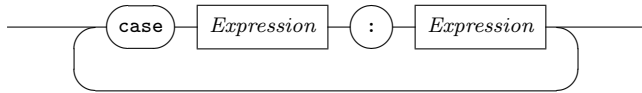
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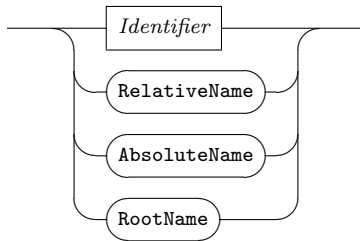
*SwitchBody*



*SwitchCases*



*Name*



*SupKind*

