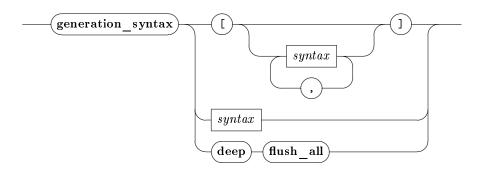
Contents

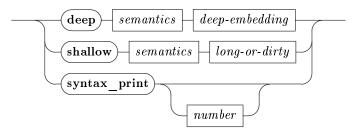
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0.0.1 The Meta Compiler

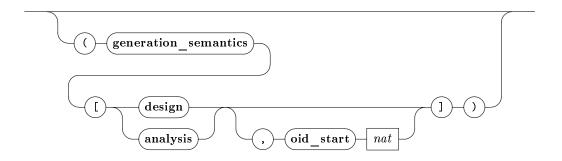
generation-syntax : $theory \rightarrow theory$

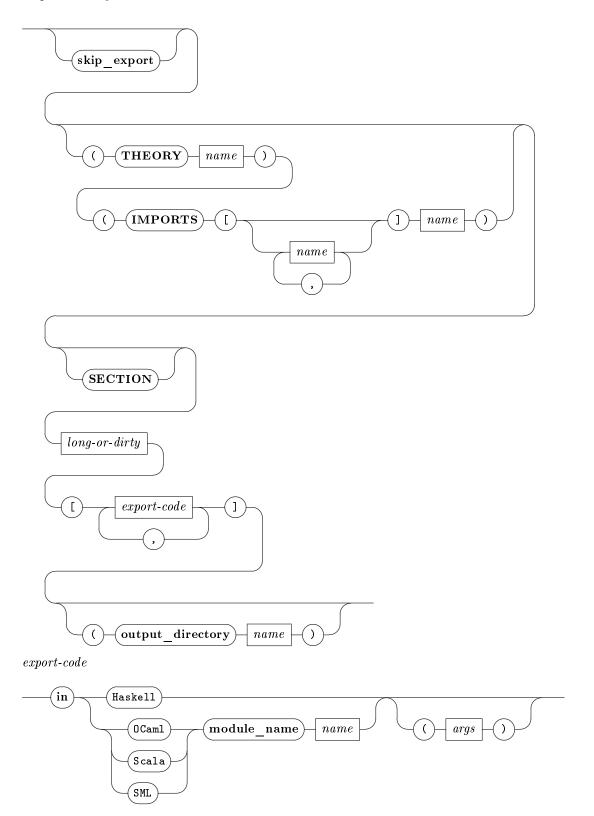


syntax

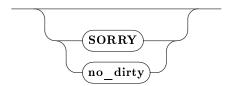


semantics





long-or-dirty

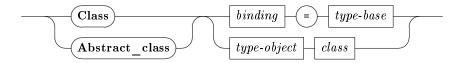


0.0.2 UML/OCL: Extended USE Grammar

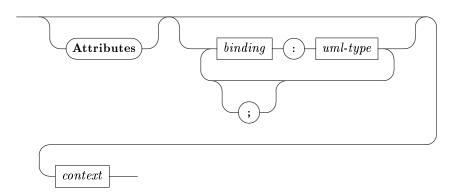
.....

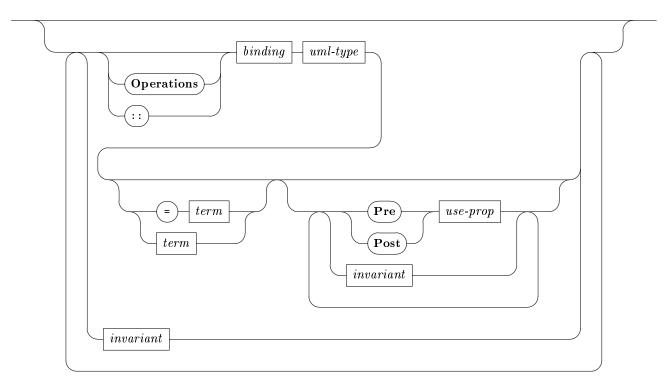
 $\textbf{Class} : theory \rightarrow theory$

Abstract-class : $theory \rightarrow theory$

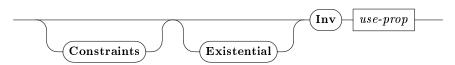


class

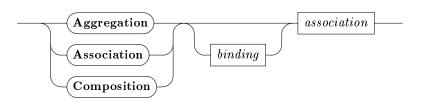




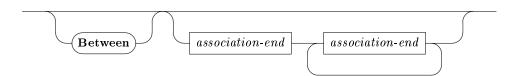
invariant



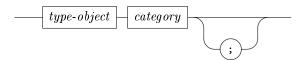
 $\begin{array}{lll} \textbf{Aggregation} & : & \textit{theory} \rightarrow \textit{theory} \\ \textbf{Association} & : & \textit{theory} \rightarrow \textit{theory} \\ \textbf{Composition} & : & \textit{theory} \rightarrow \textit{theory} \\ \end{array}$



association

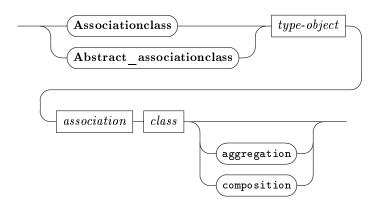


$association\hbox{-} end$



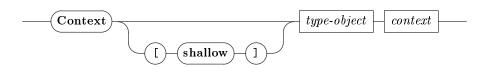
.....

 $\begin{array}{cccc} \textbf{Associationclass} & : & \textit{theory} \rightarrow \textit{theory} \\ \textbf{Abstract-associationclass} & : & \textit{theory} \rightarrow \textit{theory} \\ \end{array}$

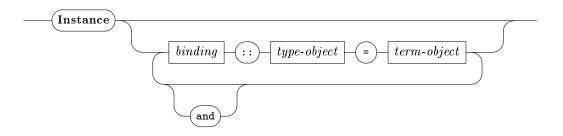


.....

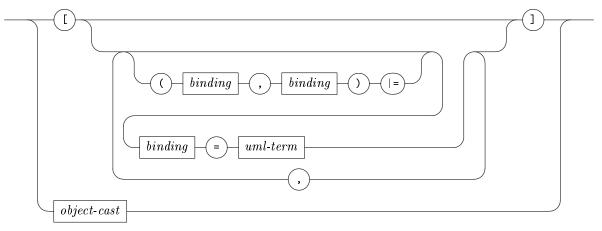
 $\textbf{Context} \quad : \quad \textit{theory} \, \rightarrow \, \textit{theory}$



Instance : $theory \rightarrow theory$



term-object

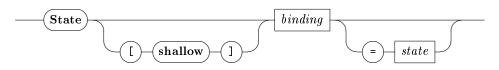


 $object\hbox{-} cast$

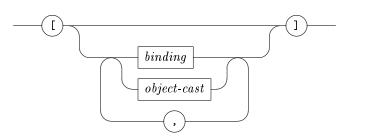


.....

 $\textbf{State} \quad : \quad \textit{theory} \, \rightarrow \, \textit{theory}$

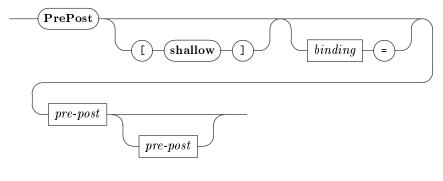


state

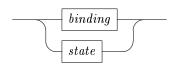


.....

 $\mathbf{PrePost} \quad : \quad \mathit{theory} \, \to \, \mathit{theory}$

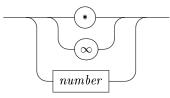


 $pre ext{-}post$

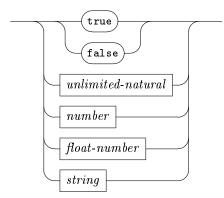


0.0.3 UML/OCL: Type System

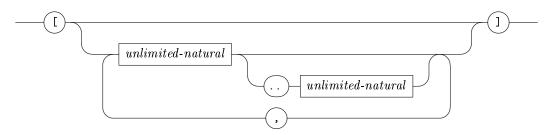
 $unlimited\hbox{-}natural$



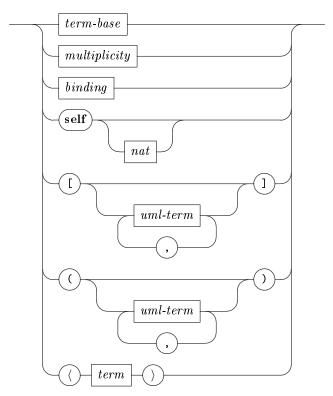
term-base



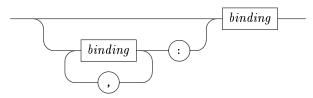
multiplicity



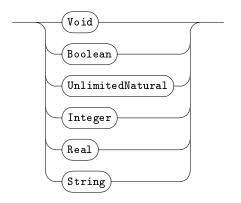
uml-term



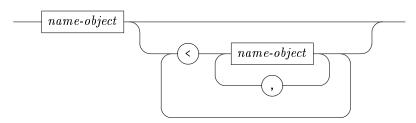
 $name \hbox{-} object$



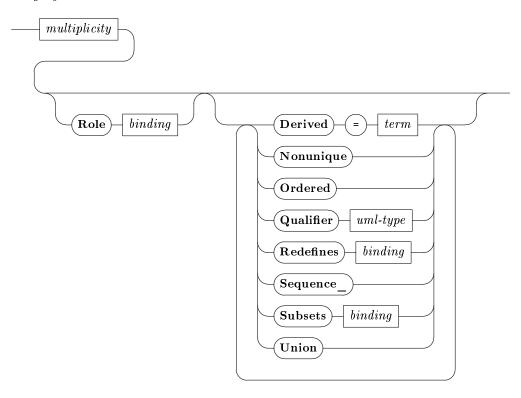
type-base



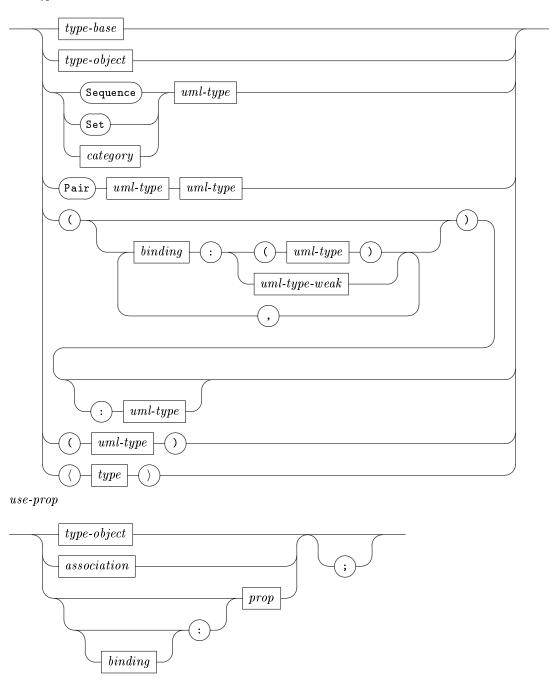
type-object



category



uml-type

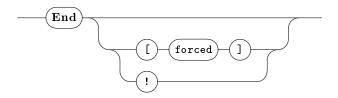


 $uml_type_weak \ is \ like \ uml_type \ except \ that \ type_object \ can \ not \ contain \ quantified \ names.$

0.0.4 UML/OCL: Miscellaneous

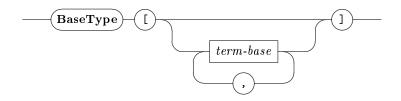
......

 $\mathbf{End} \quad : \quad \mathit{theory} \, \to \, \mathit{theory}$



......

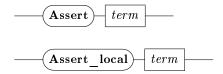
BaseType : $theory \rightarrow theory$



0.0.5 Featherweight OCL: Library

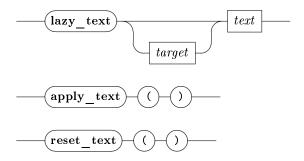
 $\mathbf{Assert} \quad : \quad \mathit{theory} \, \to \, \mathit{theory}$

Assert-local : local-theory $\rightarrow local$ -theory



0.0.6 Featherweight OCL: Auxiliary

 $\begin{array}{lll} \textbf{lazy-text} & : & local\text{-}theory \rightarrow local\text{-}theory \\ \textbf{apply-text} & : & local\text{-}theory \rightarrow local\text{-}theory \\ \textbf{reset-text} & : & local\text{-}theory \rightarrow local\text{-}theory \\ \end{array}$

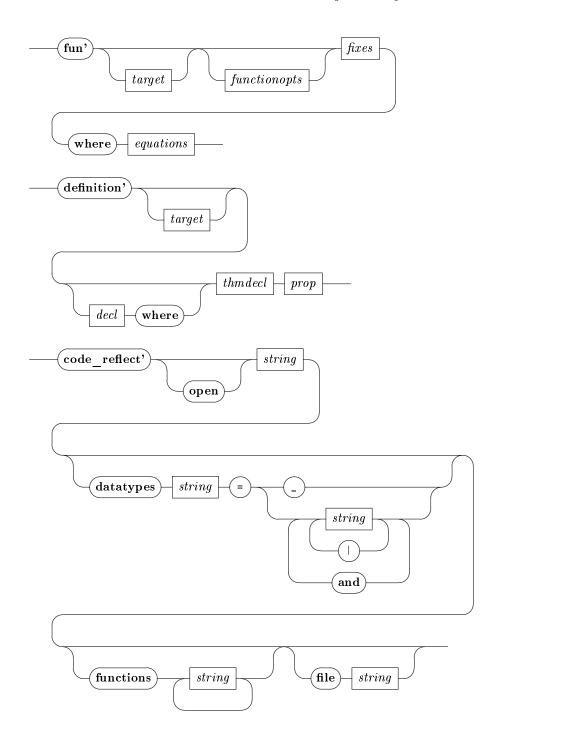


0.0.7 Featherweight OCL: Compiler

.....

 $\begin{array}{ccc} \mathbf{fun'} & : & \mathit{local\text{-}theory} \rightarrow \mathit{local\text{-}theory} \\ \mathbf{definition'} & : & \mathit{local\text{-}theory} \rightarrow \mathit{local\text{-}theory} \end{array}$

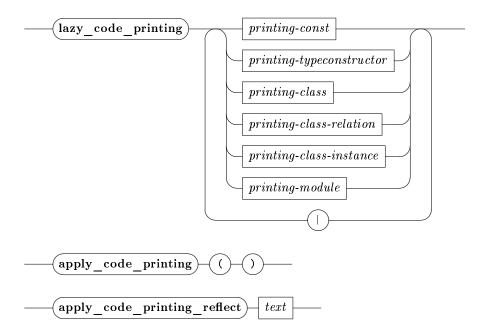
 $\mathbf{code\text{-reflect}'}$: $\mathit{theory} \to \mathit{theory}$



......

 $\begin{array}{cccc} \textbf{lazy-code-printing} &: & \textit{theory} \rightarrow \textit{theory} \\ \textbf{apply-code-printing} &: & \textit{theory} \rightarrow \textit{theory} \end{array}$

apply-code-printing-reflect : local-theory $\rightarrow local$ -theory



0.1 ...

[1]

Bibliography

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