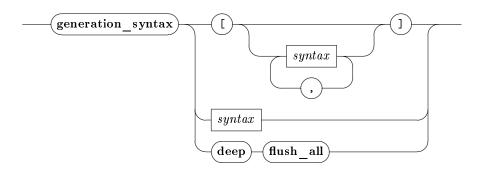
Contents

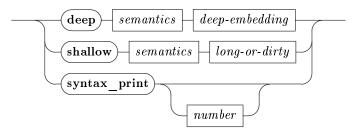
	0.0.1	The Meta Compiler	
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0.0.1 The Meta Compiler

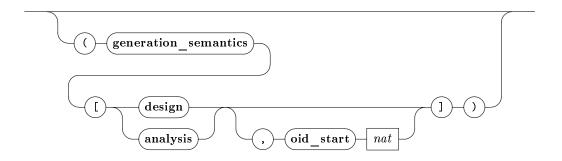
generation-syntax : $theory \rightarrow theory$

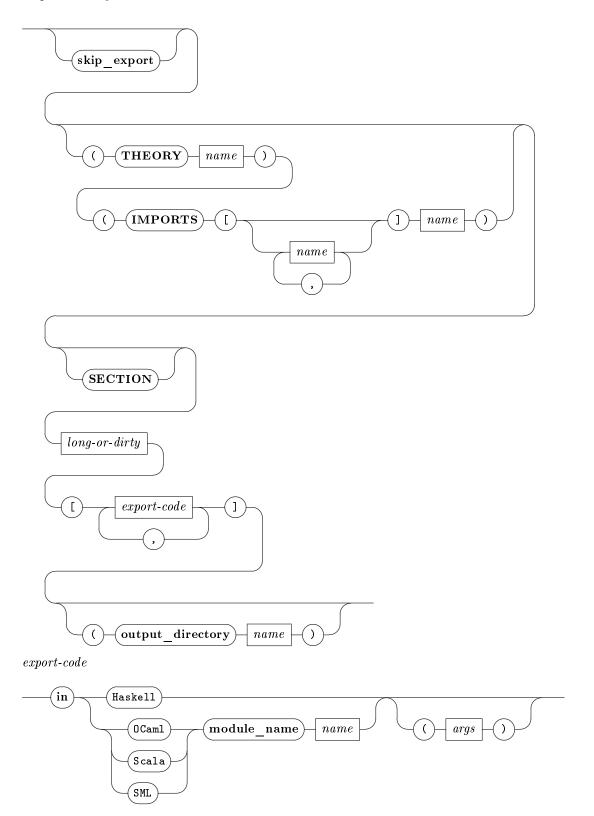


syntax

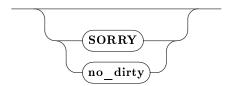


semantics





long-or-dirty

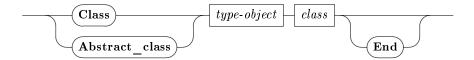


0.0.2 UML/OCL: Extended USE Grammar

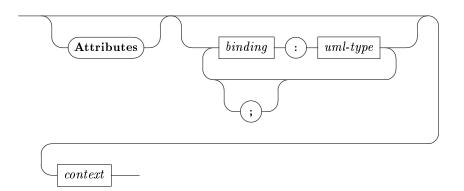
.....

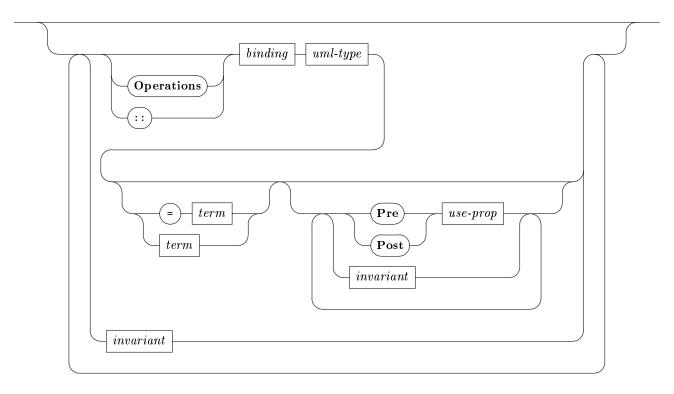
 $\textbf{Class} \quad : \quad \textit{theory} \, \rightarrow \, \textit{theory}$

 $\textbf{Abstract-class} \quad : \quad \textit{theory} \, \rightarrow \, \textit{theory}$

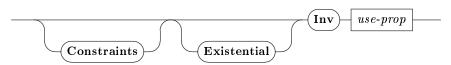


class



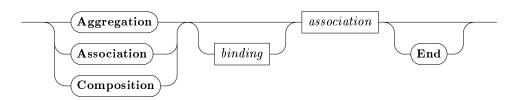


invariant



.....

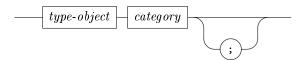
 $\begin{array}{lll} \textbf{Aggregation} & : & \textit{theory} \rightarrow \textit{theory} \\ \textbf{Association} & : & \textit{theory} \rightarrow \textit{theory} \\ \textbf{Composition} & : & \textit{theory} \rightarrow \textit{theory} \\ \end{array}$



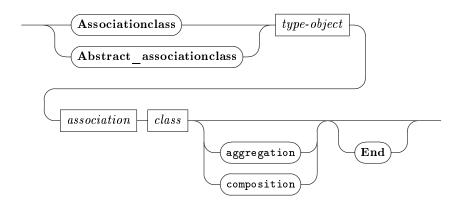
association



$association\hbox{-} end$

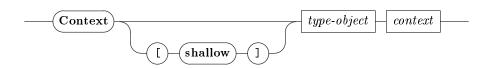


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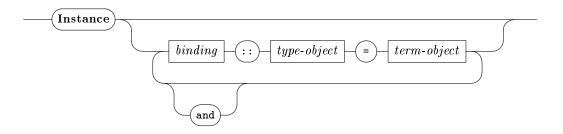


.....

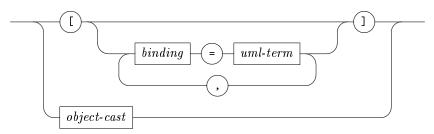
 $\textbf{Context} \quad : \quad \textit{theory} \, \rightarrow \, \textit{theory}$



Instance : $theory \rightarrow theory$



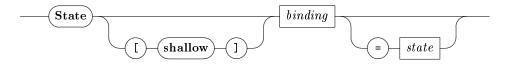




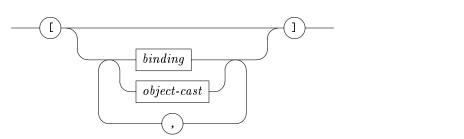
 $object\hbox{-} cast$



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

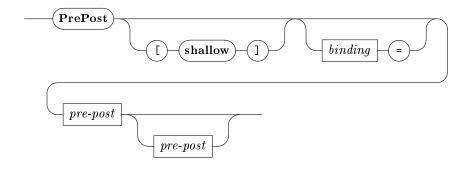


state

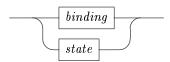


.....

 $\mathbf{PrePost}$: $theory \rightarrow theory$

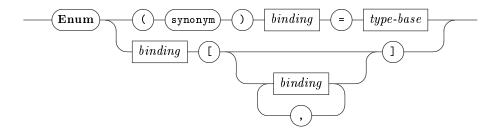


$pre ext{-}post$



.....

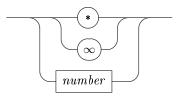
Enum : $theory \rightarrow theory$



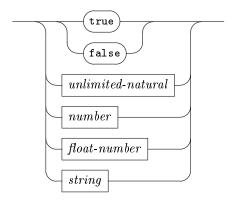
$0.0.3\ \mathsf{UML}/\mathsf{OCL} \colon \mathsf{Type}\ \mathsf{System}$

.....

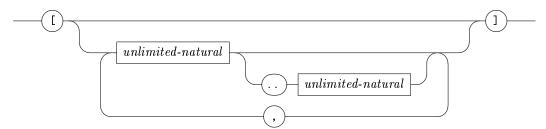
$unlimited\hbox{-}natural$



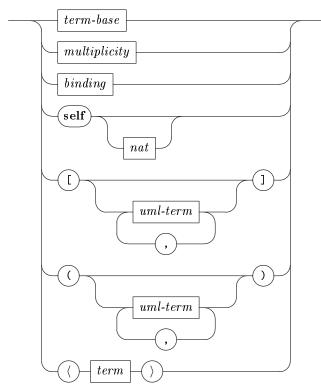
term-base



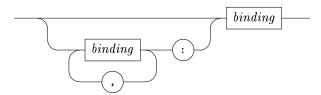
multiplicity



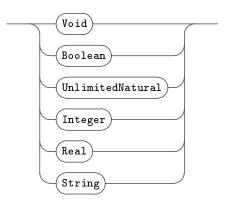
uml-term



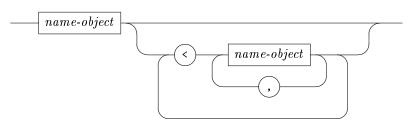
name-object



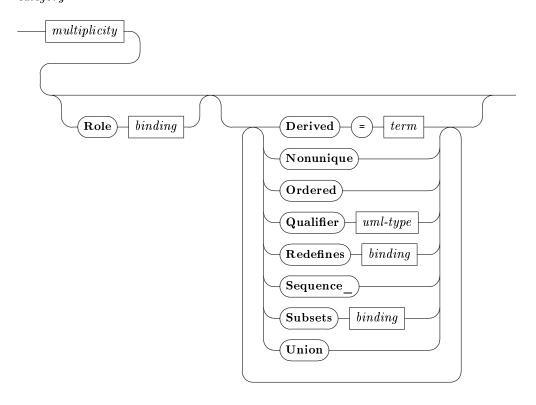
type-base



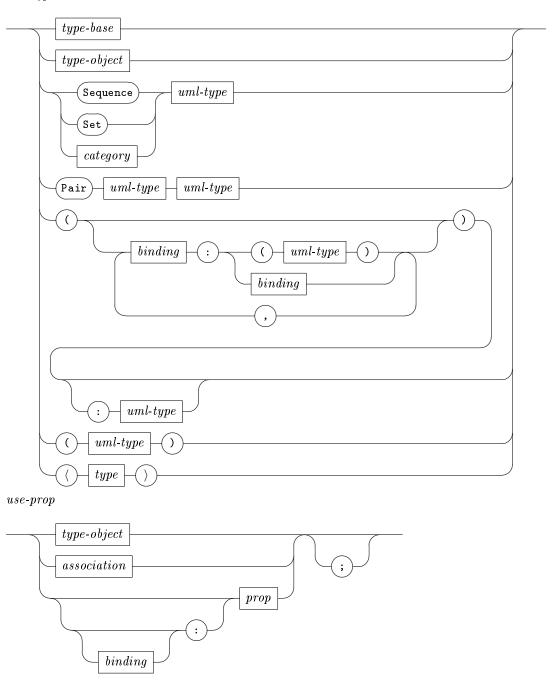
type-object



category



uml-type



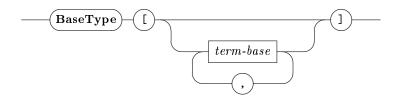
0.0.4 UML/OCL: Miscellaneous

 $\textbf{Class.end} \quad : \quad \textit{theory} \, \rightarrow \, \textit{theory}$

——(Class.end)——

.....

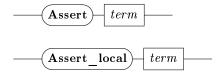
 $\mathbf{BaseType}$: $theory \rightarrow theory$



0.0.5 Featherweight OCL: Library

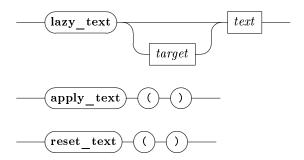
 $\mathbf{Assert} \quad : \quad theory \rightarrow theory$

 $\textbf{Assert-local} \quad : \quad \textit{local-theory} \ \rightarrow \ \textit{local-theory}$



0.0.6 Featherweight OCL: Auxiliary

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

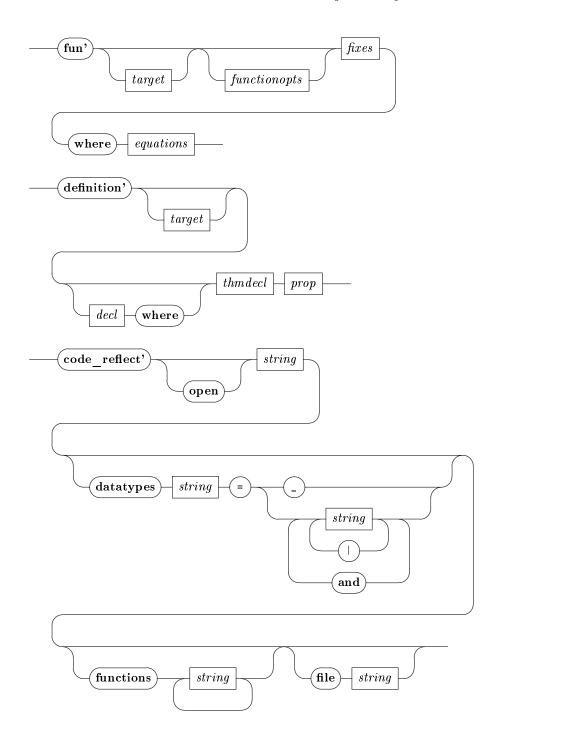


0.0.7 Featherweight OCL: Compiler

.....

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

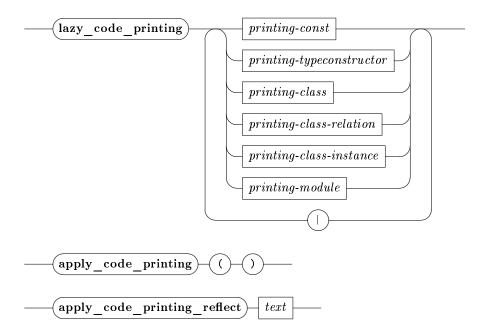
 $\mathbf{code\text{-reflect}'}$: $\mathit{theory} \to \mathit{theory}$



......

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

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



0.1 ...

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Bibliography

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