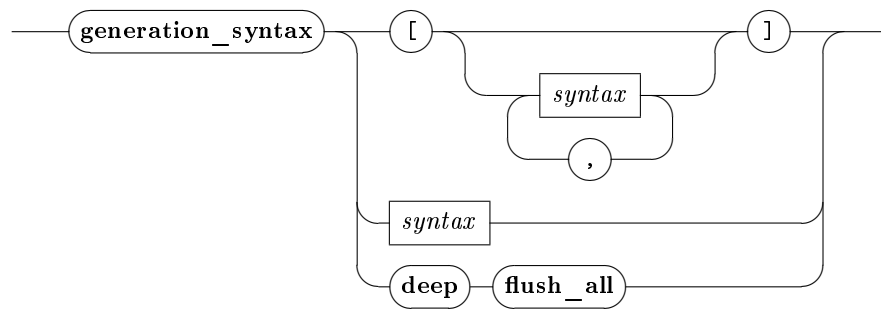


Contents

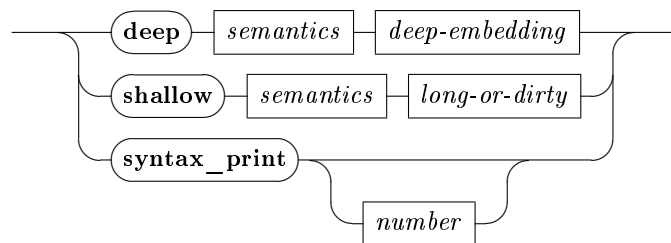
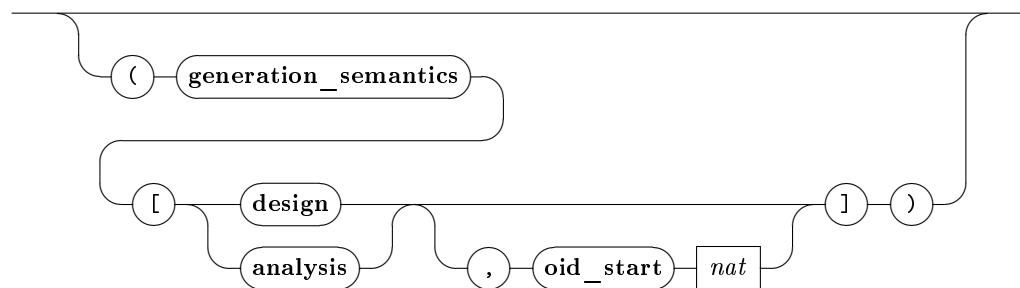
0.0.1	The Meta Compiler	2
0.0.2	UML/OCL: Extended USE Grammar	4
	.....	4
	.....	5
	.....	6
	.....	6
	.....	6
	.....	7
	.....	8
0.0.3	UML/OCL: Type System	8
	.....	8
0.0.4	UML/OCL: Miscellaneous	12
	.....	12
	.....	13
0.0.5	Featherweight OCL: Library	13
0.0.6	Featherweight OCL: Auxiliary	13
0.0.7	Featherweight OCL: Compiler	14
	.....	14
	.....	15
0.1	.....	16

0.0.1 The Meta Compiler

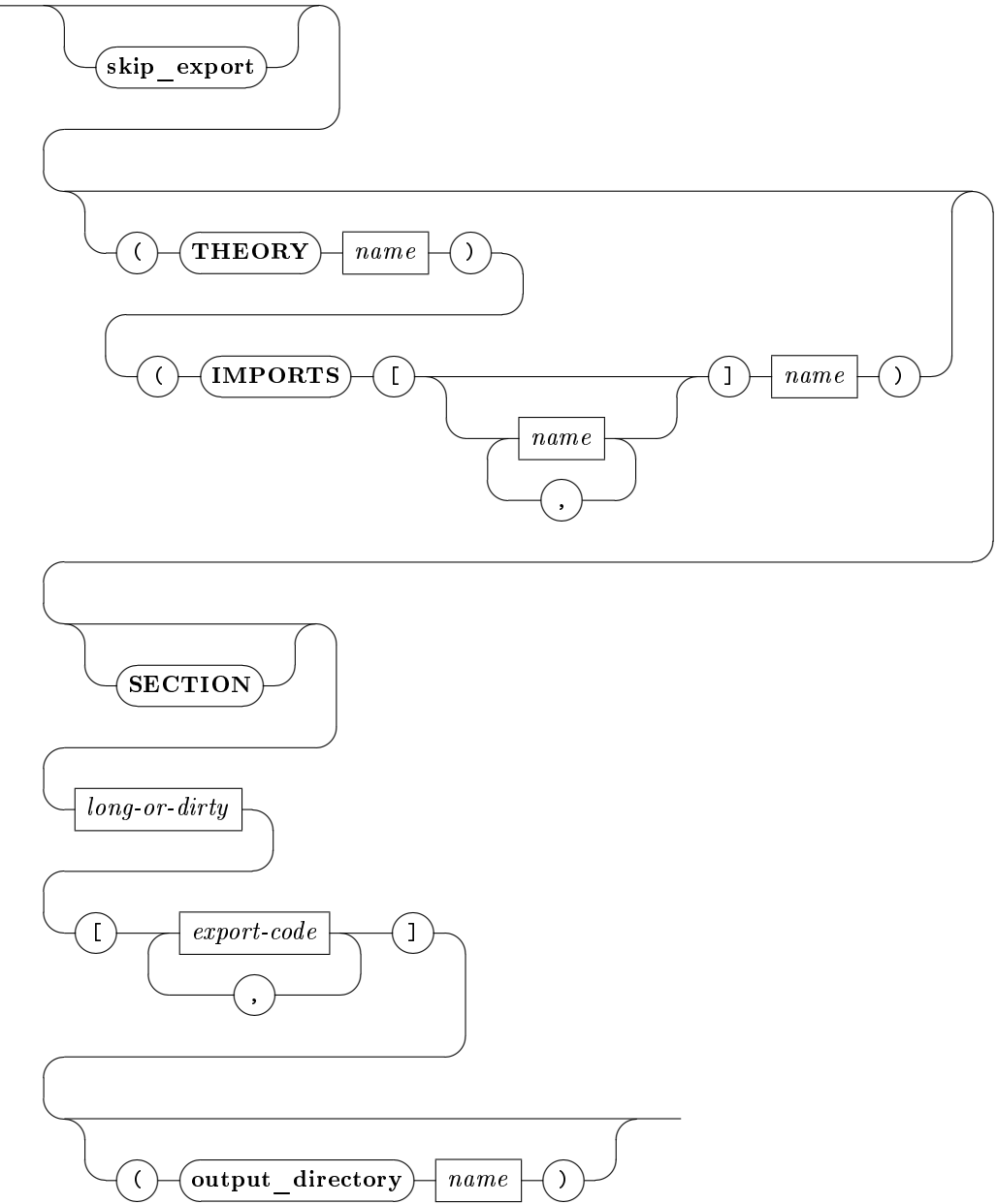
generation-syntax : $theory \rightarrow theory$



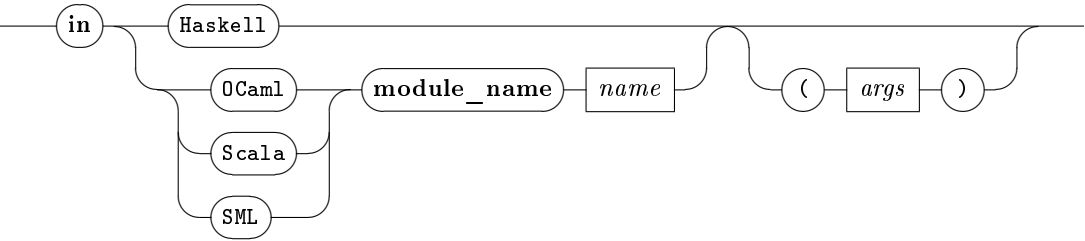
syntax

*semantics*

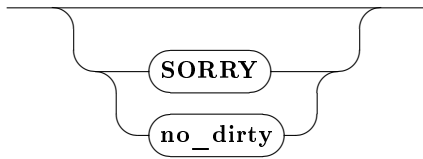
deep-embedding



export-code

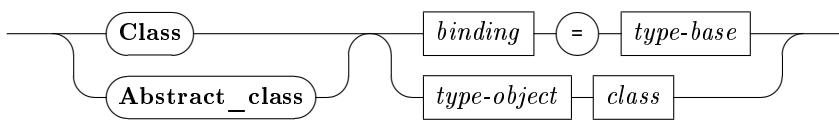


long-or-dirty

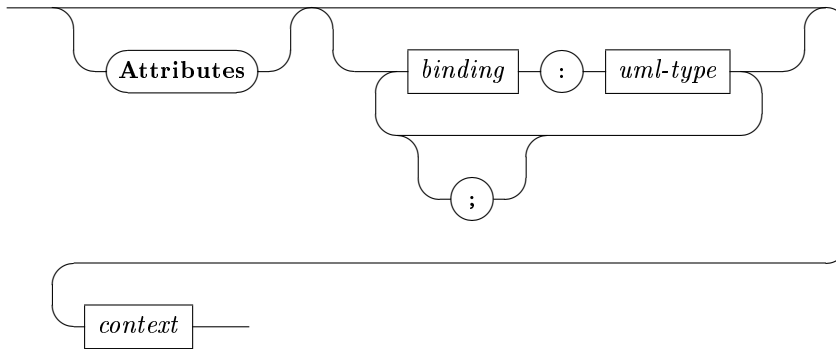


0.0.2 UML/OCL: Extended USE Grammar

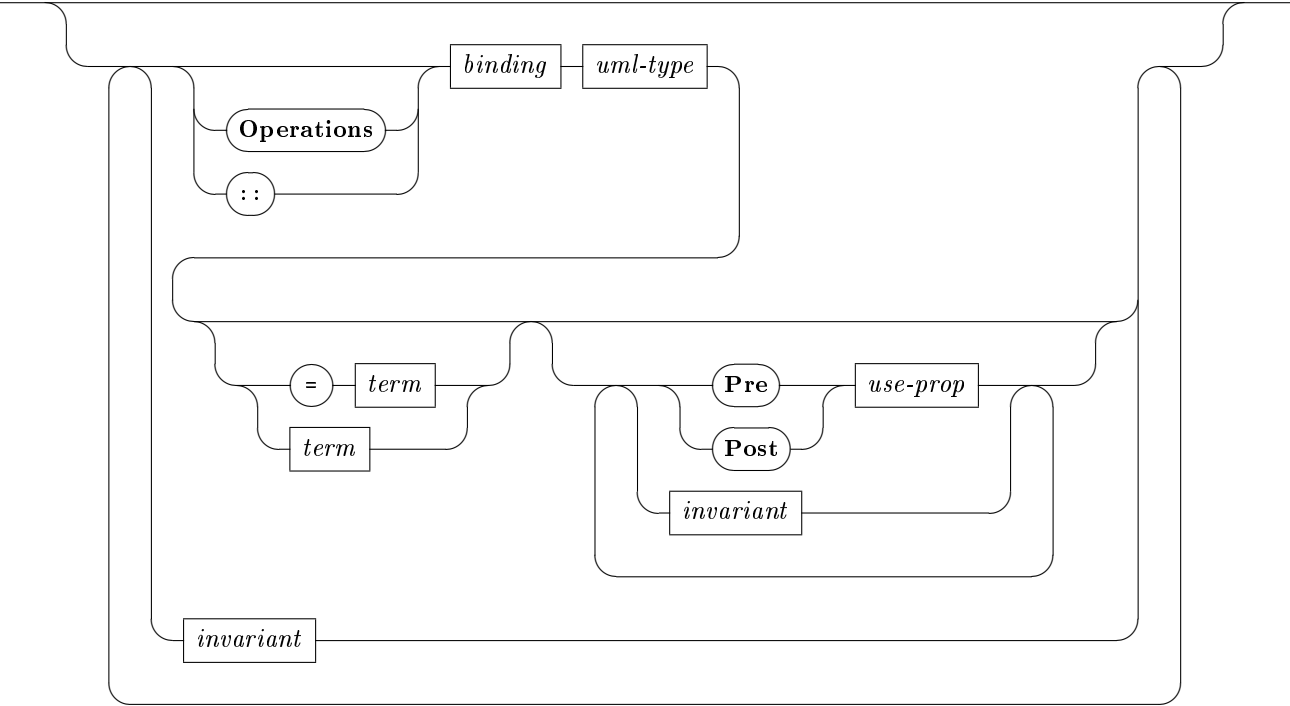
Class : *theory* → *theory*
Abstract-class : *theory* → *theory*



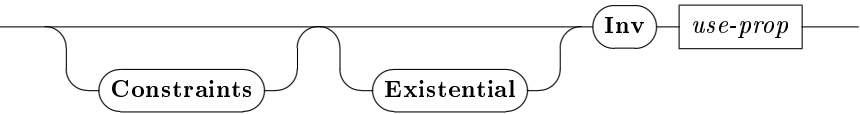
class



context

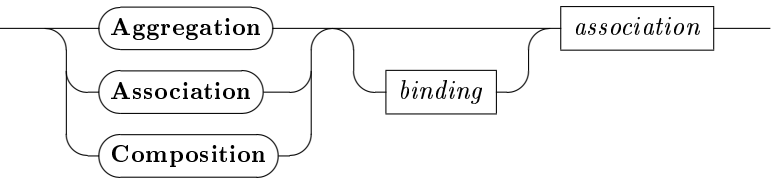


invariant

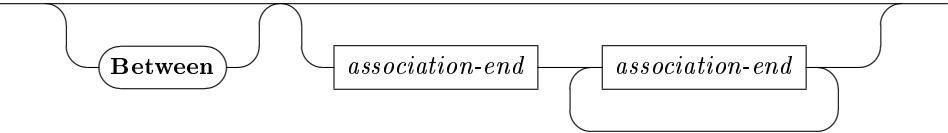


.....

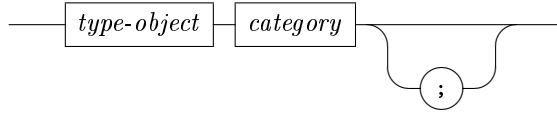
Aggregation : $theory \rightarrow theory$
Association : $theory \rightarrow theory$
Composition : $theory \rightarrow theory$



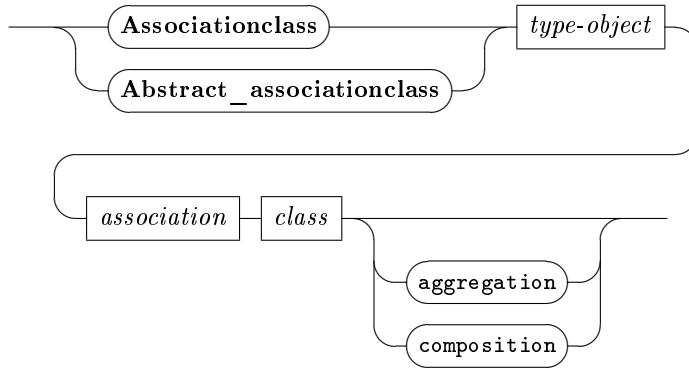
association



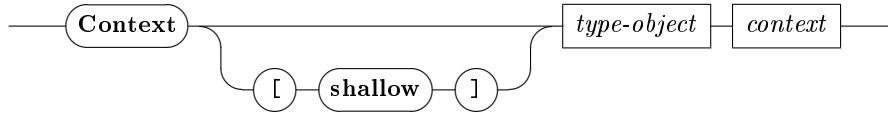
association-end



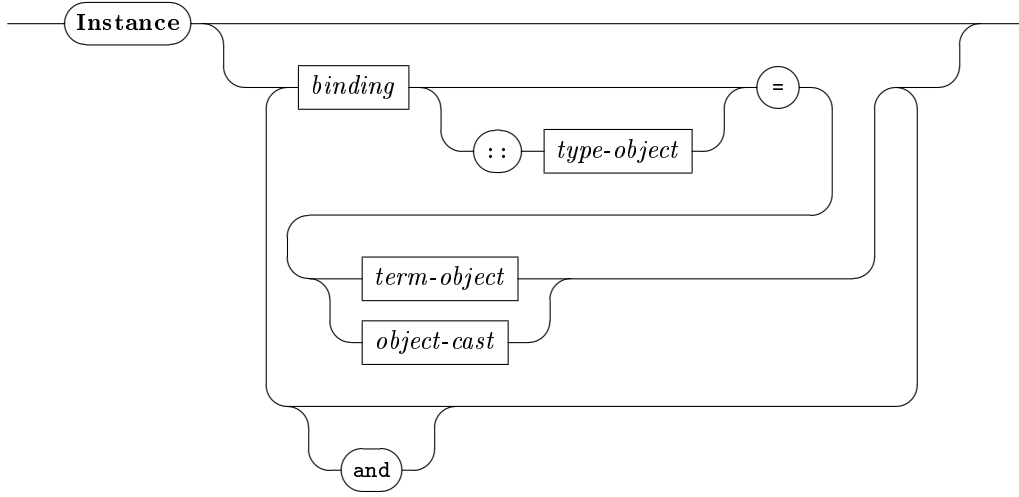
Associationclass : $theory \rightarrow theory$
Abstract-associationclass : $theory \rightarrow theory$



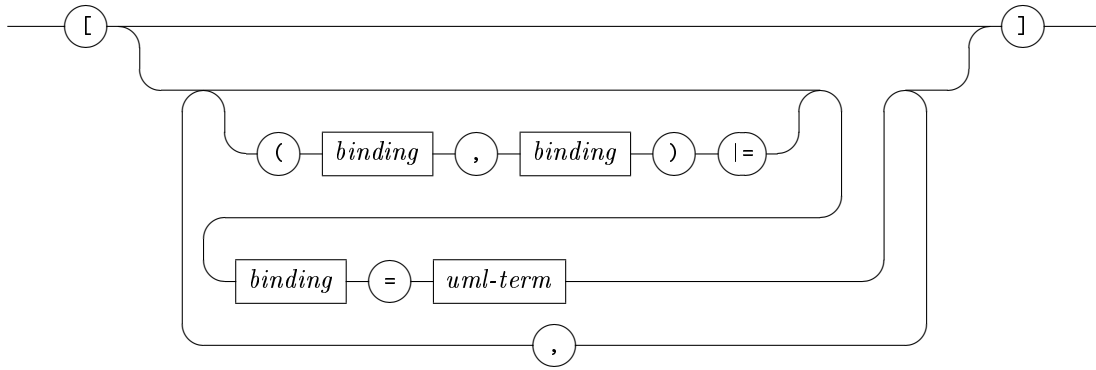
Context : $theory \rightarrow theory$



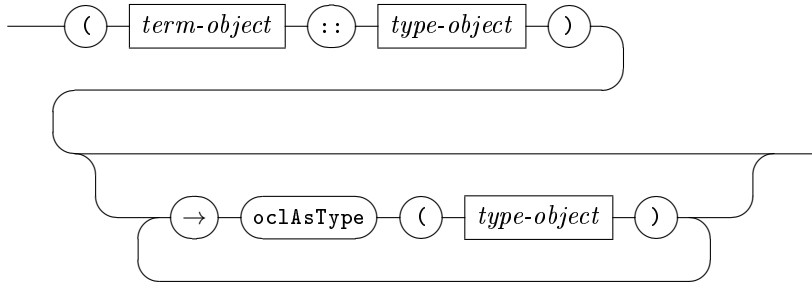
Instance : $theory \rightarrow theory$



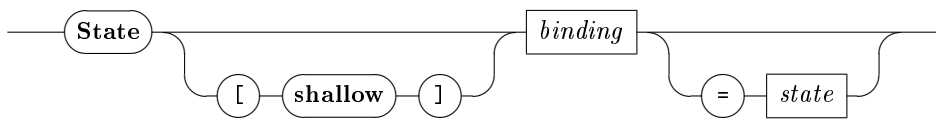
term-object



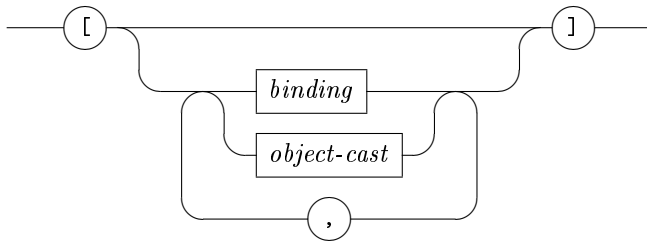
object-cast



State : *theory* → *theory*

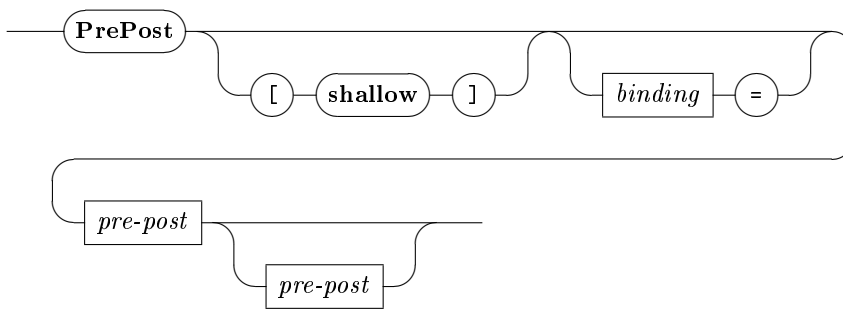


state

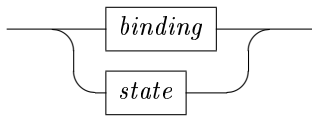


.....

PrePost : *theory* \rightarrow *theory*



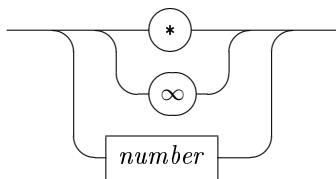
pre-post



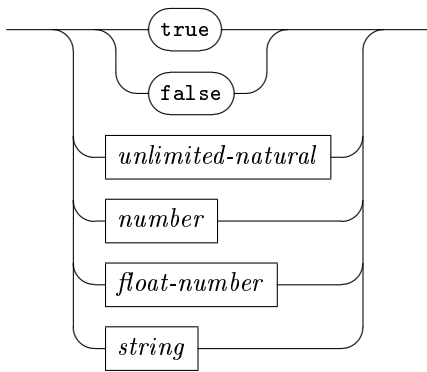
0.0.3 UML/OCL: Type System

.....

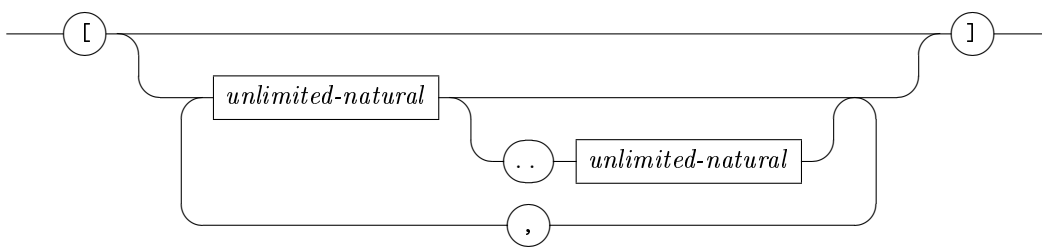
unlimited-natural



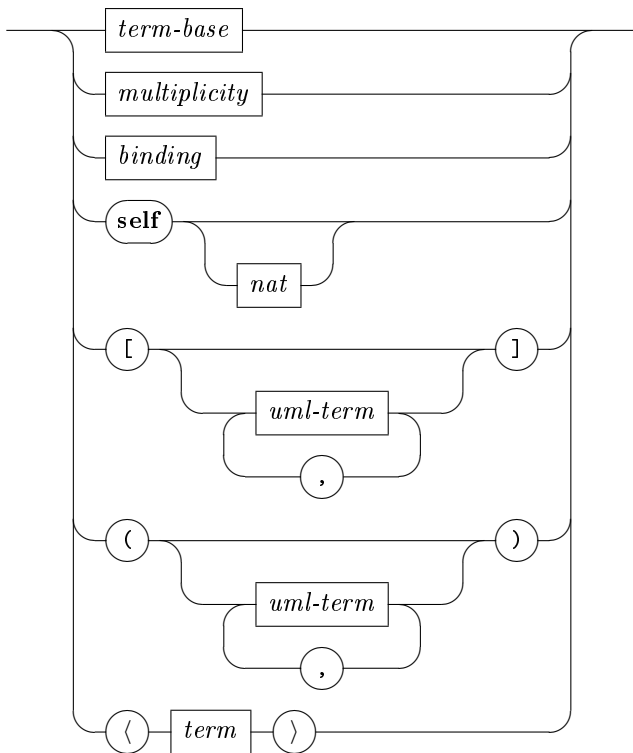
term-base



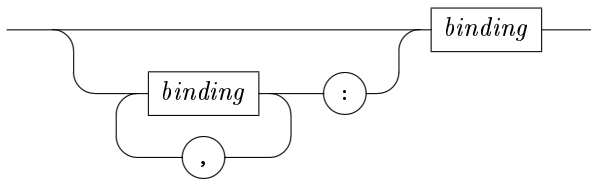
multiplicity



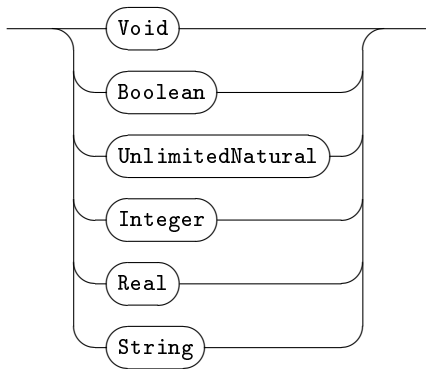
uml-term



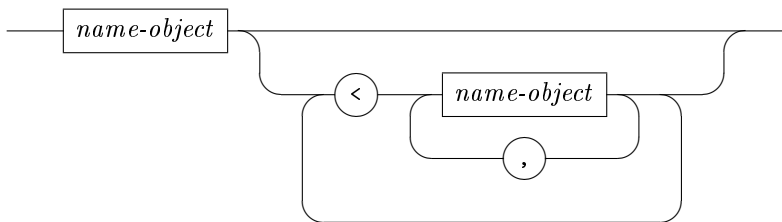
name-object



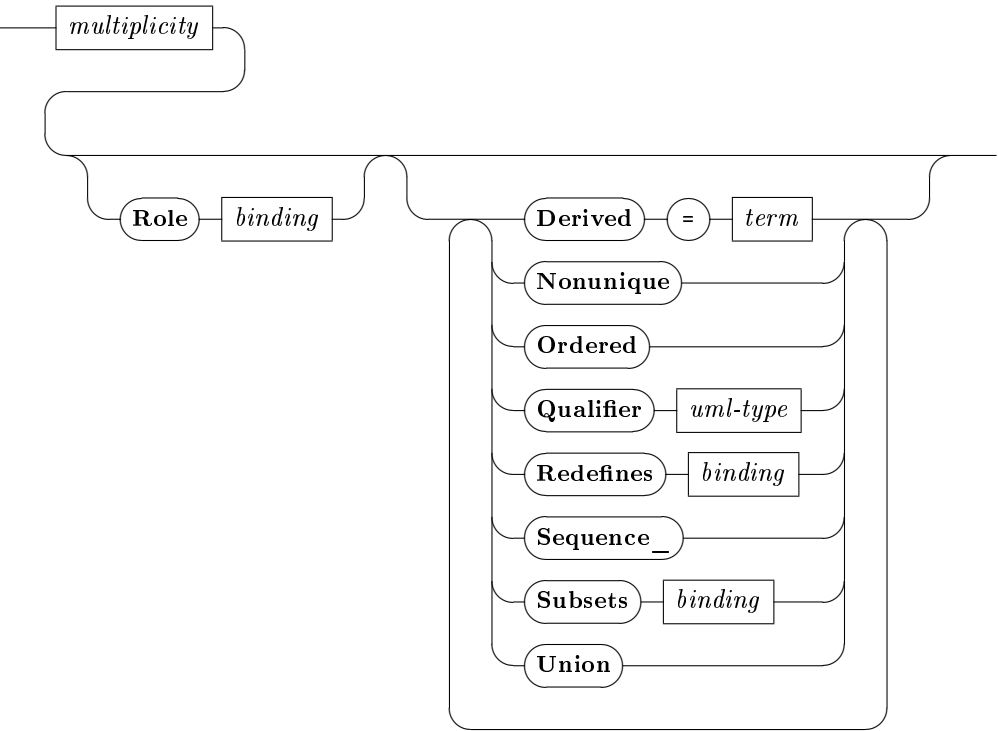
type-base



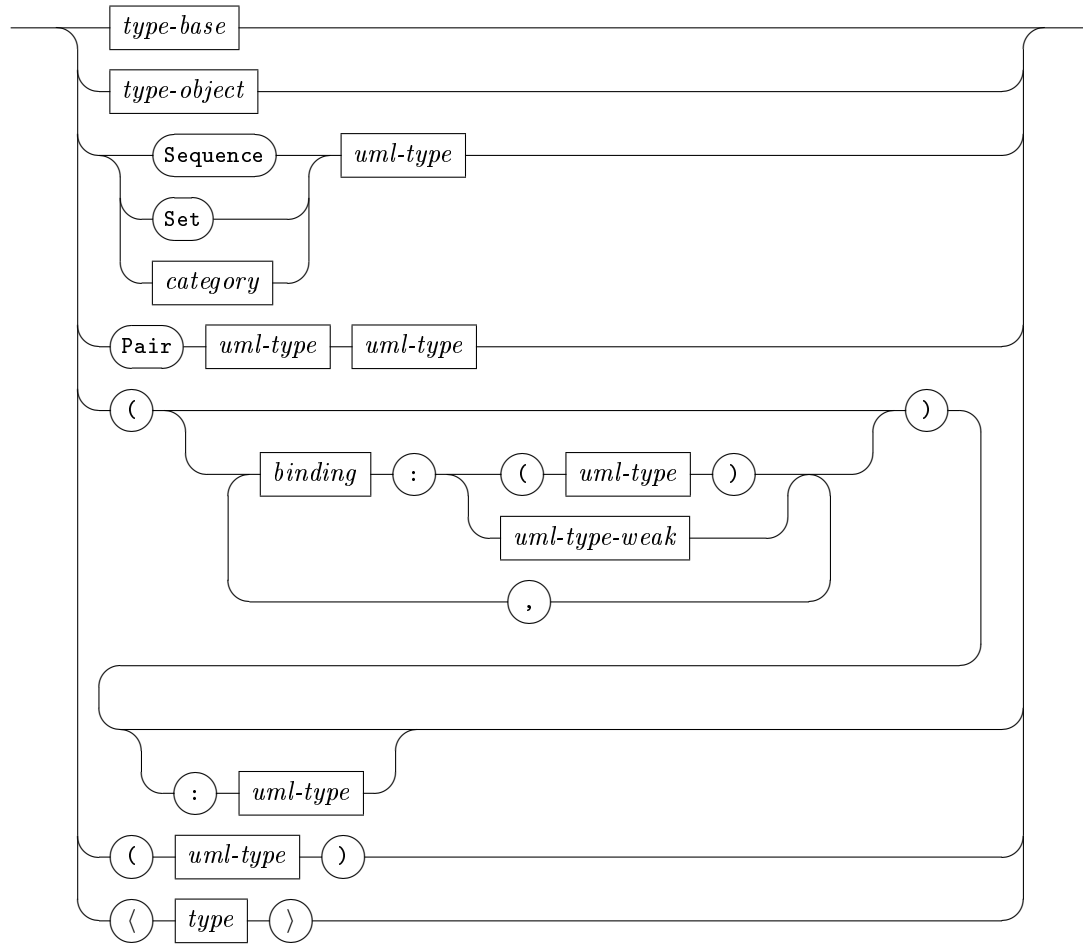
type-object



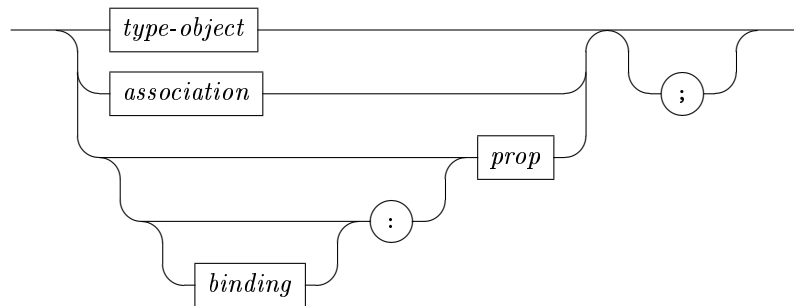
category



uml-type



use-prop

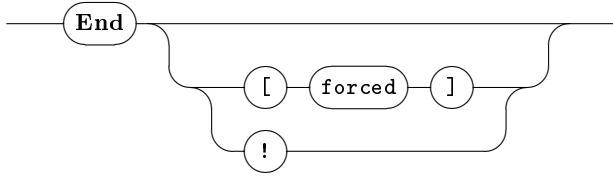


uml_type_weak is like *uml_type* except that *type_object* can not contain quantified names.

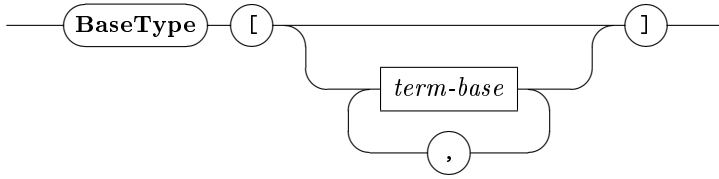
0.0.4 UML/OCL: Miscellaneous

.....

End : *theory* \rightarrow *theory*

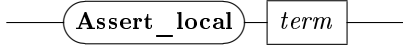
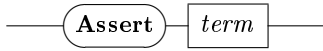


BaseType : $theory \rightarrow theory$



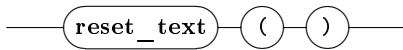
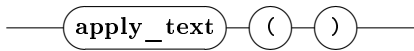
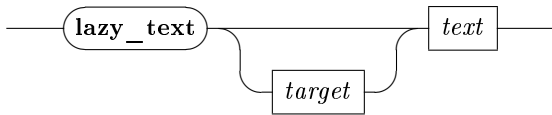
0.0.5 Featherweight OCL: Library

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



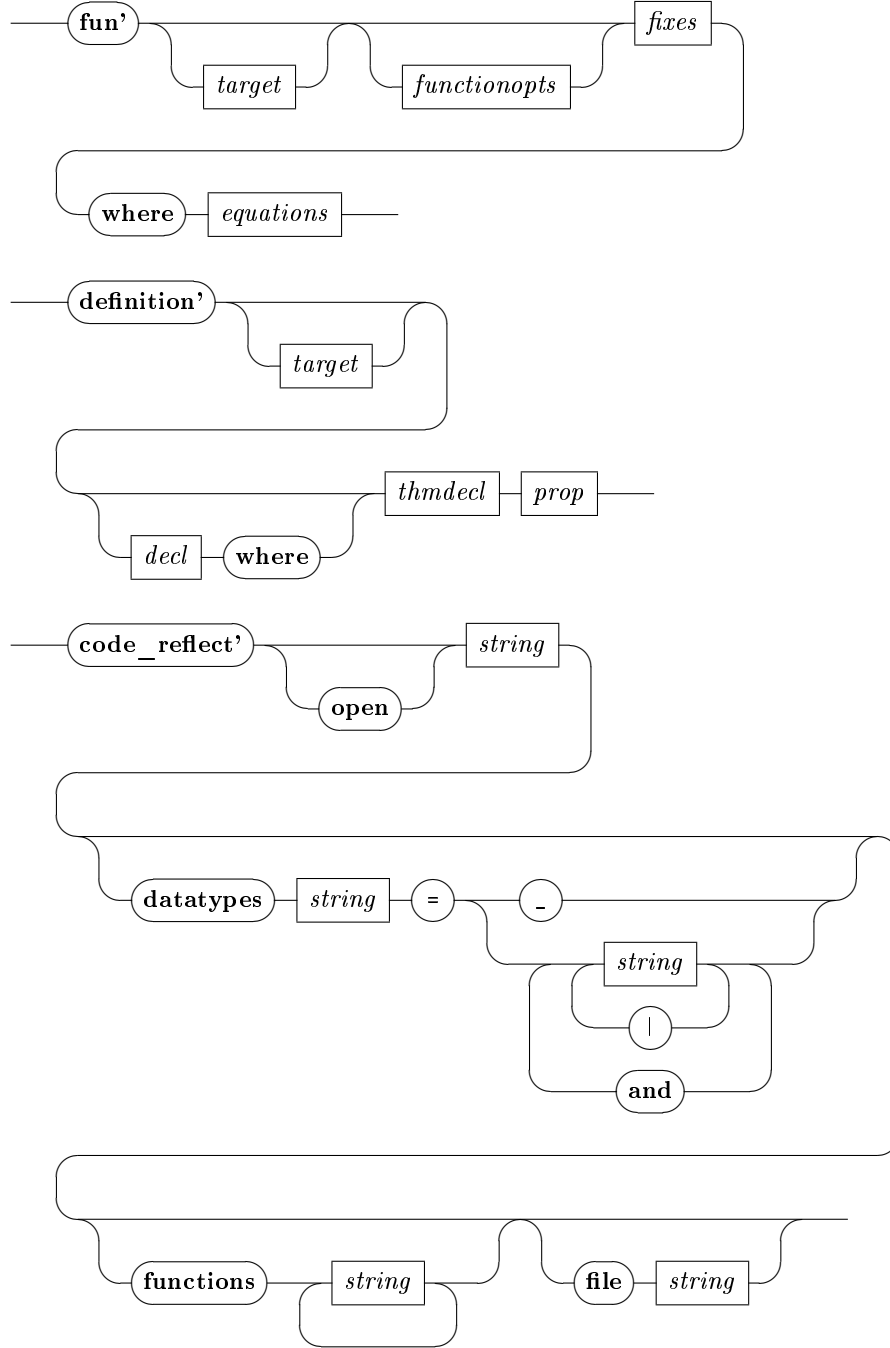
0.0.6 Featherweight OCL: Auxiliary

lazy-text : $local-theory \rightarrow local-theory$
apply-text : $local-theory \rightarrow local-theory$
reset-text : $local-theory \rightarrow local-theory$

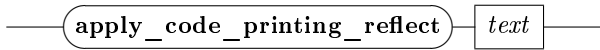
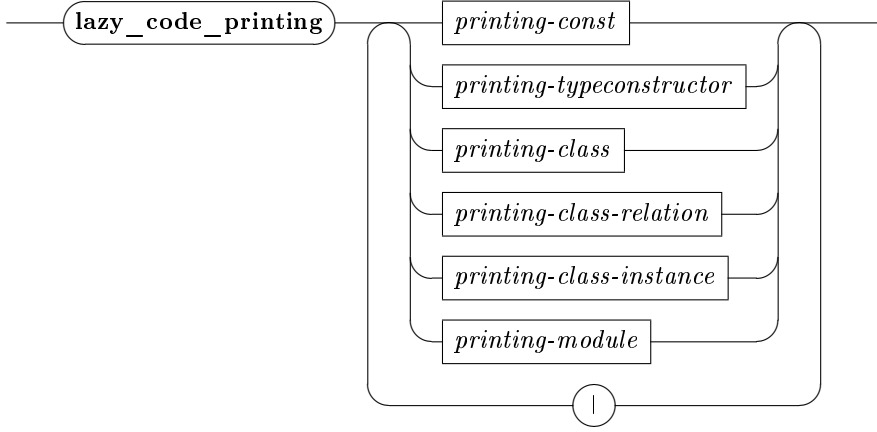


0.0.7 Featherweight OCL: Compiler

$\text{fun}' : \text{local-theory} \rightarrow \text{local-theory}$
 $\text{definition}' : \text{local-theory} \rightarrow \text{local-theory}$
 $\text{code-reflect}' : \text{theory} \rightarrow \text{theory}$



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



0.1 ...

[1]

Bibliography

[1] ...