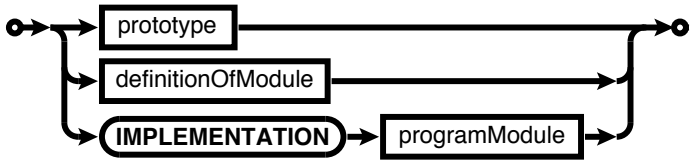
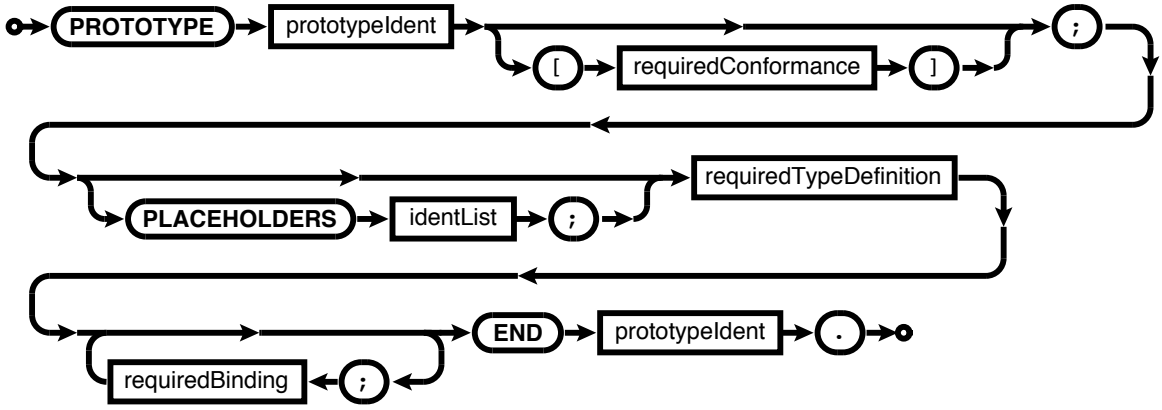
Appendix B: Syntax Diagrams

B.1 Non-Terminal Symbols

#1 Compilation Unit



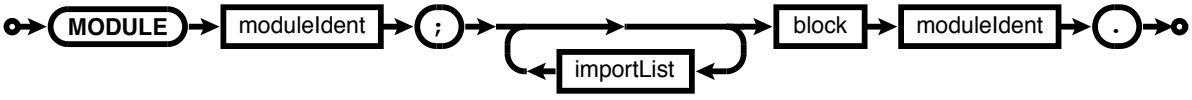
#2 Prototype Definition



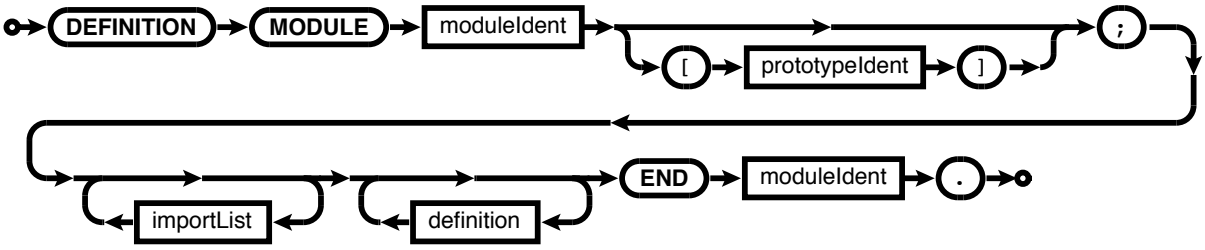
#2.1 Prototype Identifier

#2.2 Required Conformance

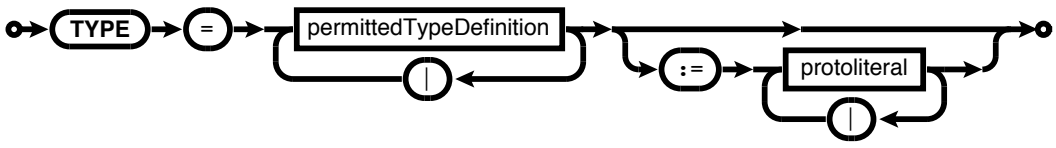
#3 Program Module



#4 Definition Of Module



#5 Required Type Definition



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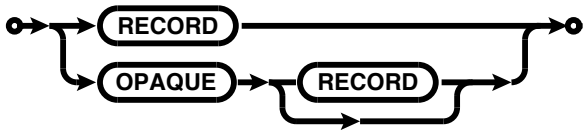
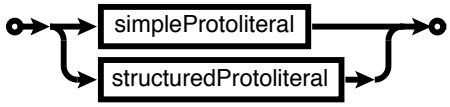
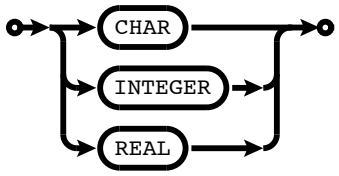
#6 Permitted Type Definition



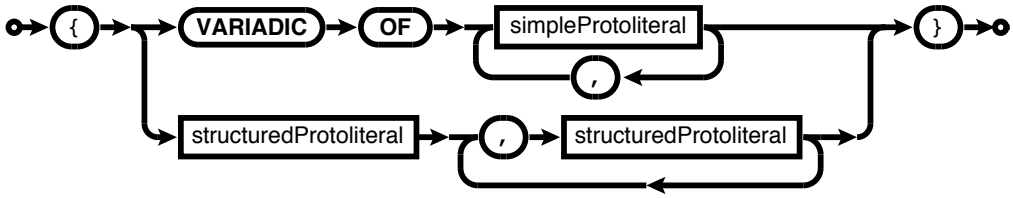
#7 Proto-Literal



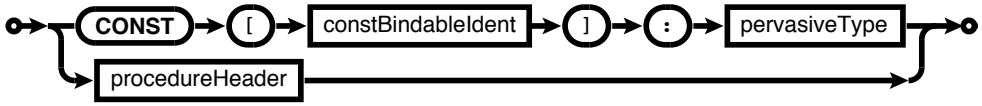
#7.1 Simple Proto-Literal



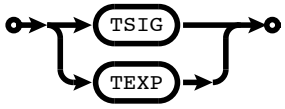
#8 Structured Proto-Literal



#9 Required Binding

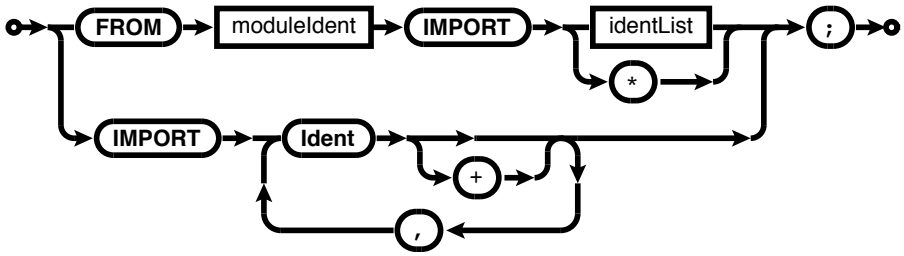


#9.1 CONST Bindable Identifier

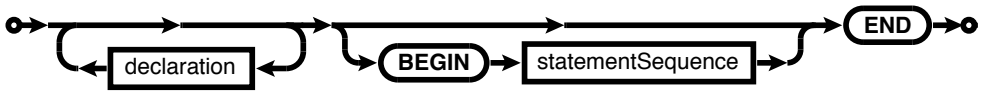


#9.2 Pervasive Type

#10 Import List



#11 Block



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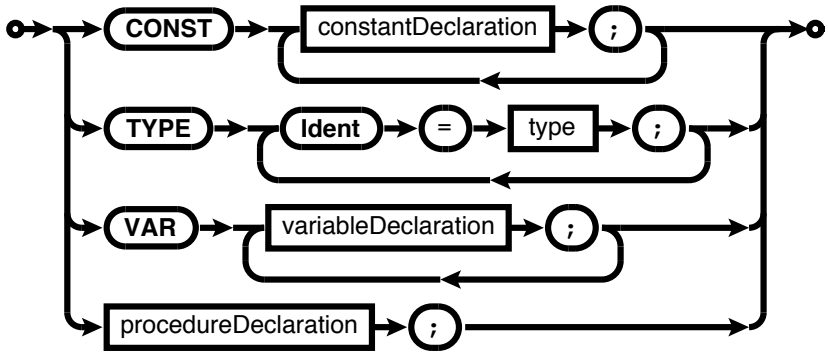
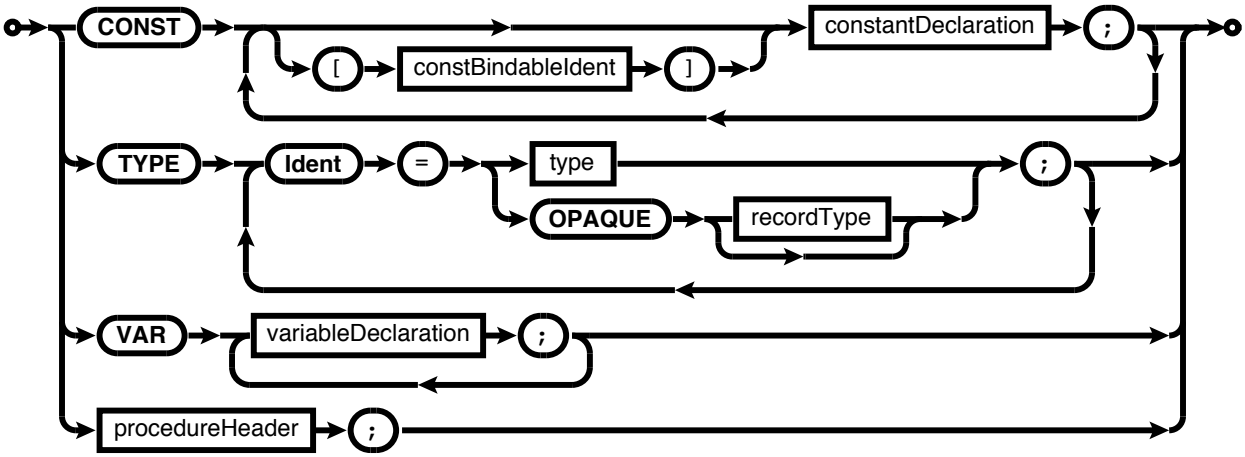
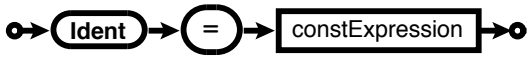
#12 Declaration



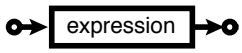
#13 Definition



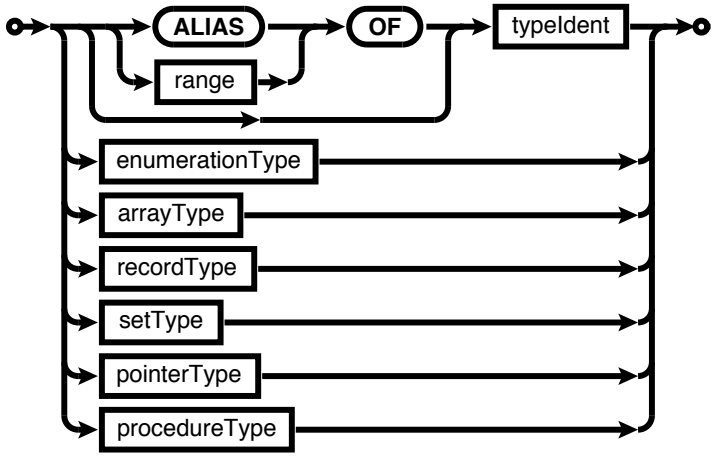
#14 Constant Declaration



#14.1 Constant Expression



#15 Type



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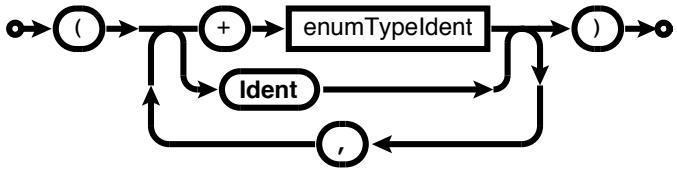
#16 Range

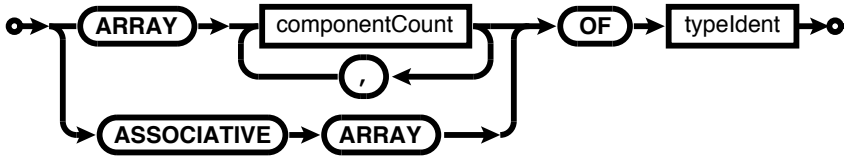
#17 Enumeration Type



#17.1 Enumeration Type Identifier

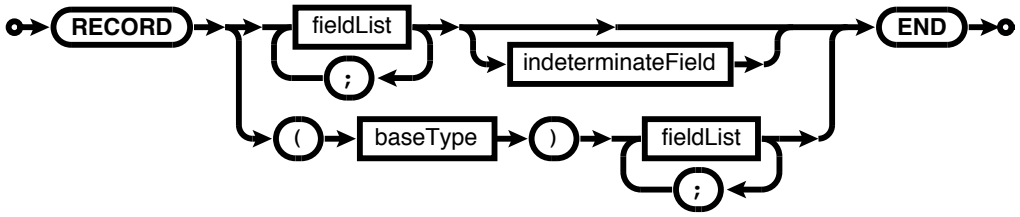
#17.2 Type Identifier

#18 Array Type



#18.1 Component Count

#19 Record Type



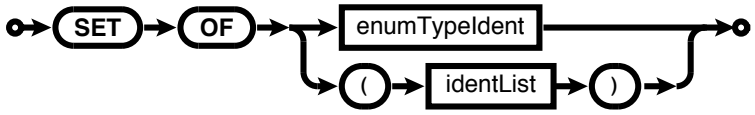
#19.1 Field List

#19.2 Base Type

#20 Indeterminate Field

#20.1 Discriminant Field

#21 Set Type



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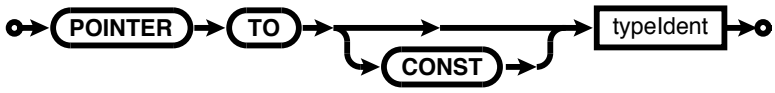
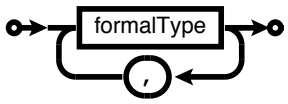
#22 Pointer Type



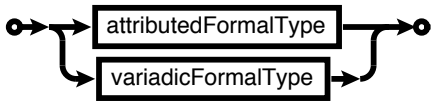
#23 Procedure Type

#23.1 Returned Type

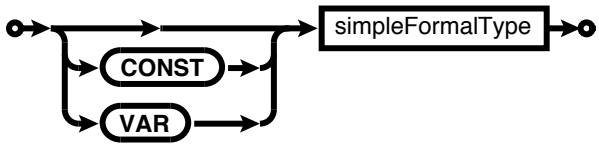
#24 Formal Type List



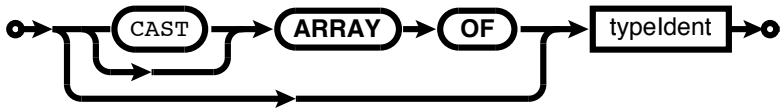
#25 Formal Type



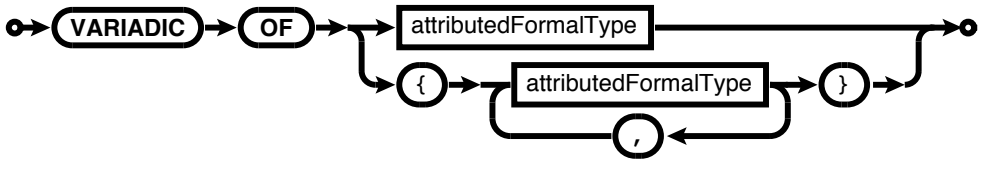
#26 Attributed Formal Type



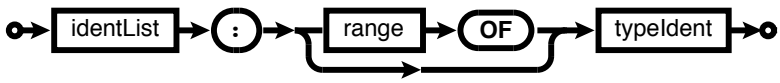
#27 Simple Formal Type



#28 Variadic Formal Type



#29 Variable Declaration



#30 Procedure Declaration

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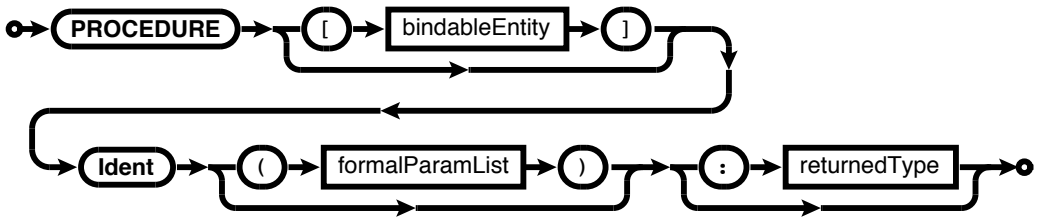
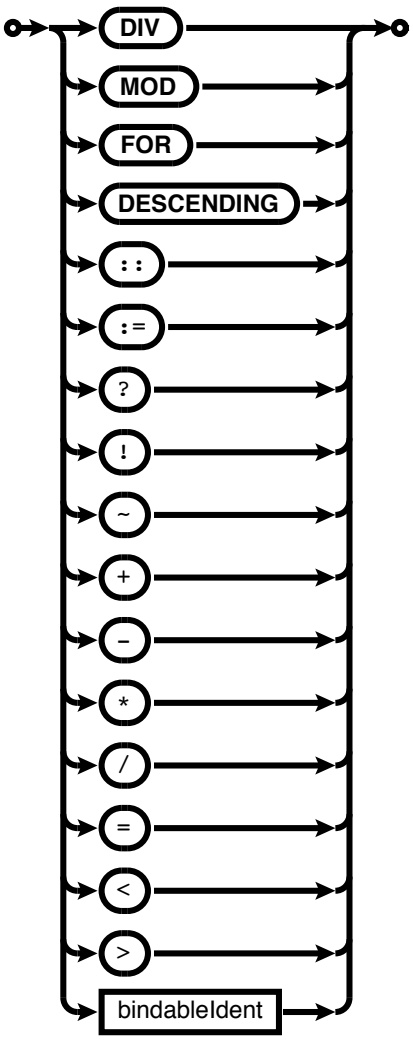
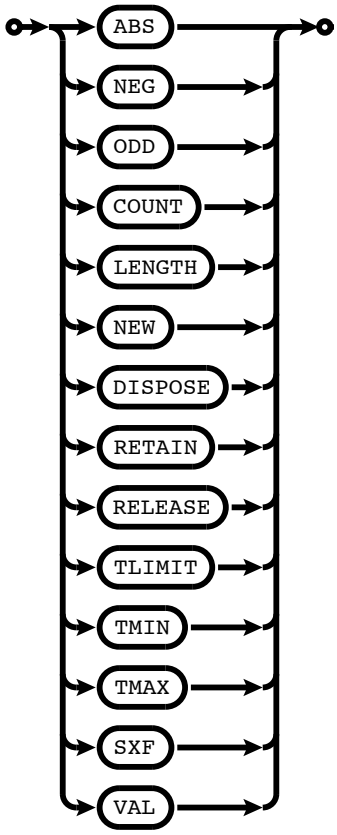
#31 Procedure Header



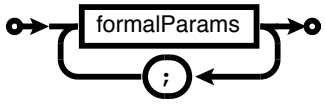
#32 Bindable Entity



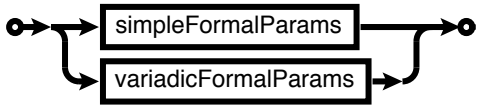
#32.1 Bindable Identifier



#33 Formal Parameter List



#34 Formal Parameters



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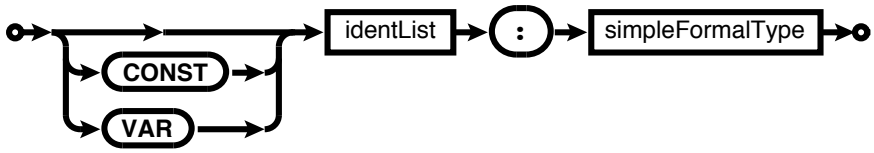
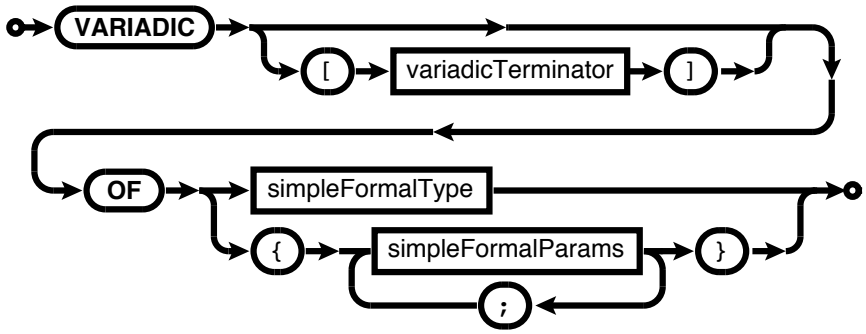
#35 Simple Formal Parameters

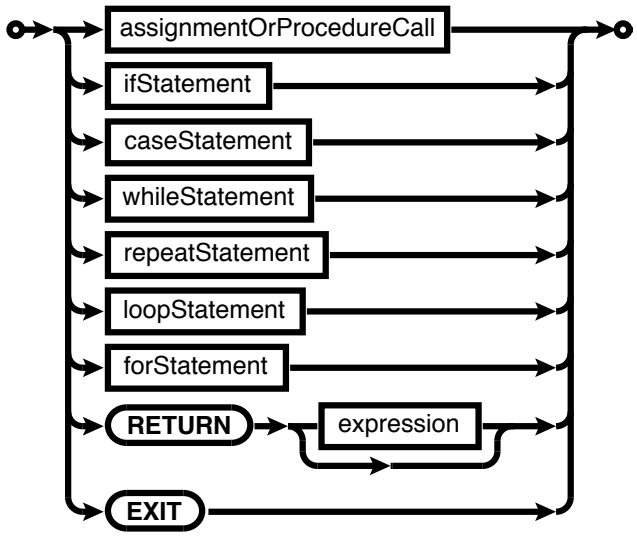


#36 Variadic Formal Parameters

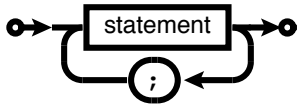


#36.1 Variadic Terminator

#37 Statement



#38 StatementSequence



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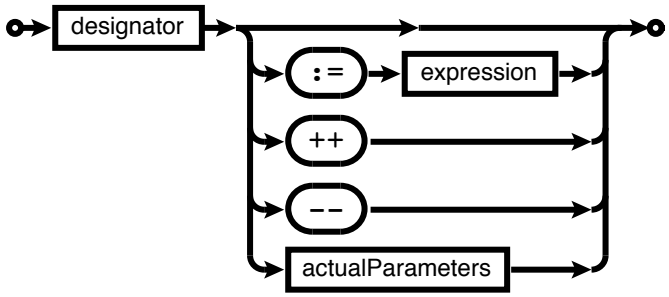
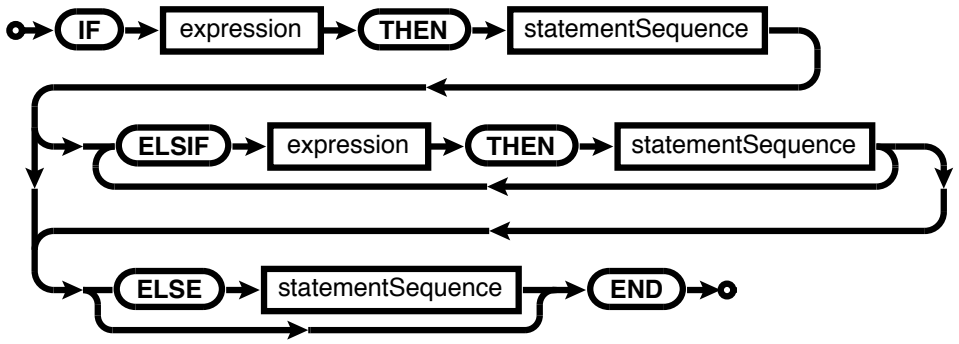
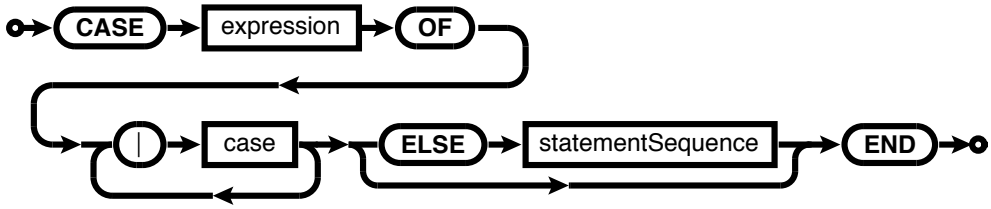
#39 Assignment Or Procedure Call



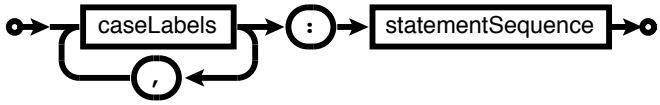
#40 IF Statement



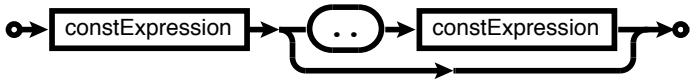
#41 CASE Statement



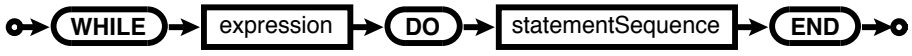
#42 Case



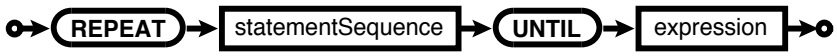
#43 Case Labels



#44 WHILE Statement



#45 REPEAT Statement



#46 LOOP Statement

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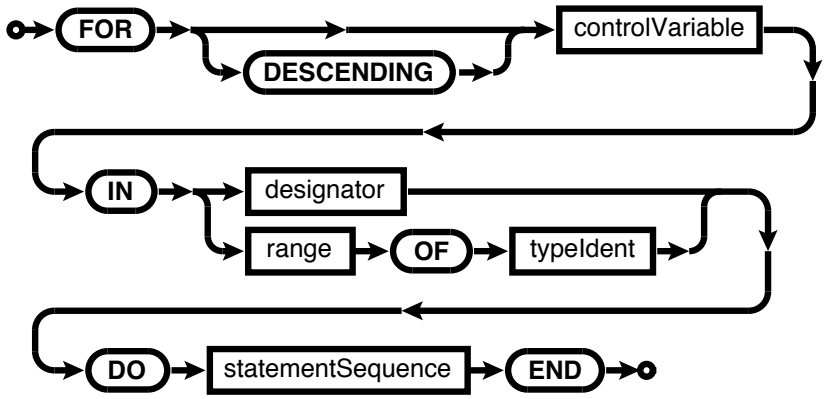
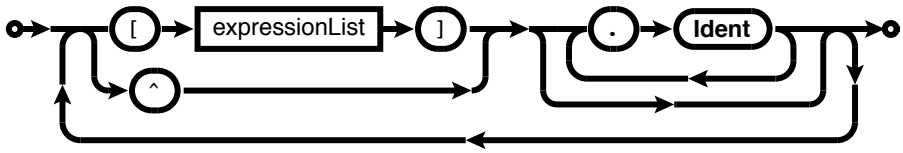
#47 FOR Statement



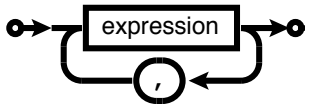
#47.1 Control Variable

#48 Designator

#49 Designator Tail

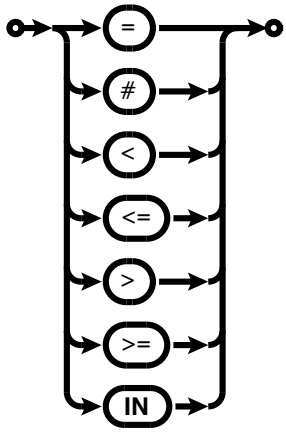


#50 Expression List



#51 Expression

#51.1 Relational Operator



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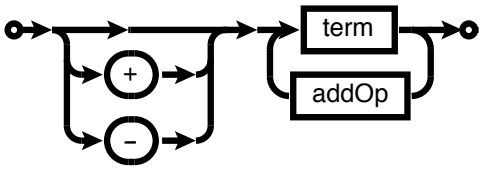
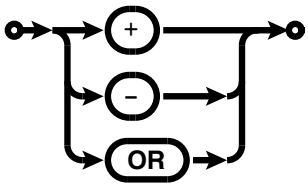
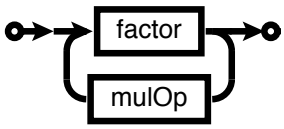
#52 Simple Expression



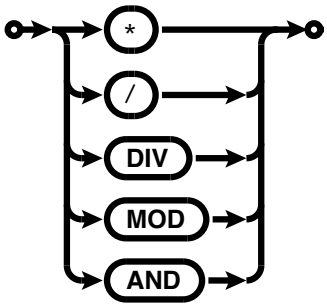
#52.1 Add Operator



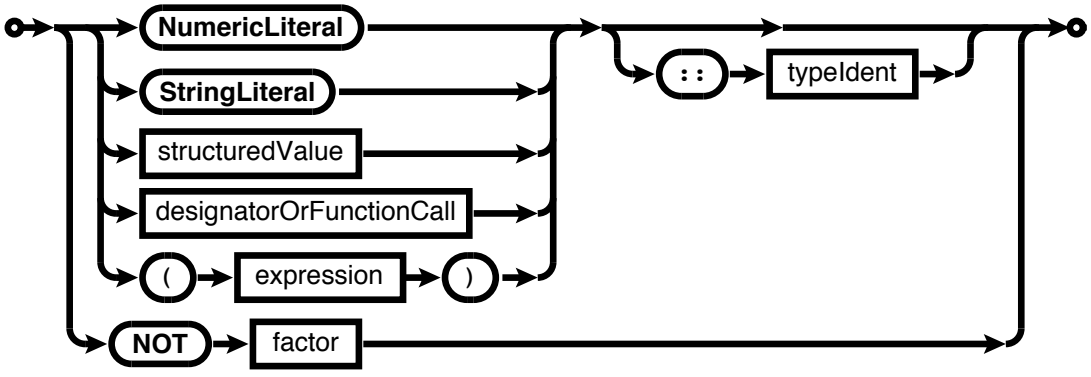
#53 Term



#53.1 Multiply Operator

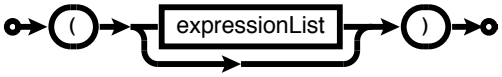


#54 Factor



#55 Designator Or Function Call

#56 Actual Parameters



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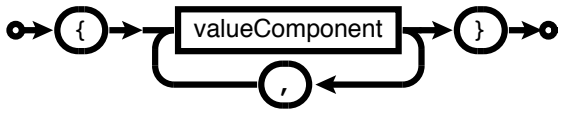
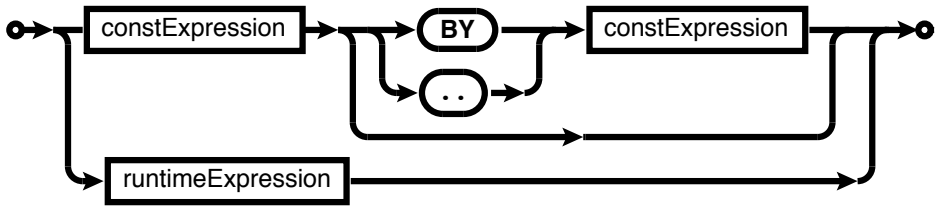
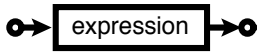
#57 Structured Value



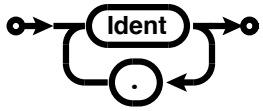
#58 Value Component



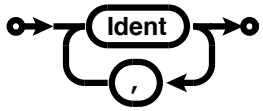
#58.1 Runtime Expression



#59 Qualified Identifier



#60 Identifier List



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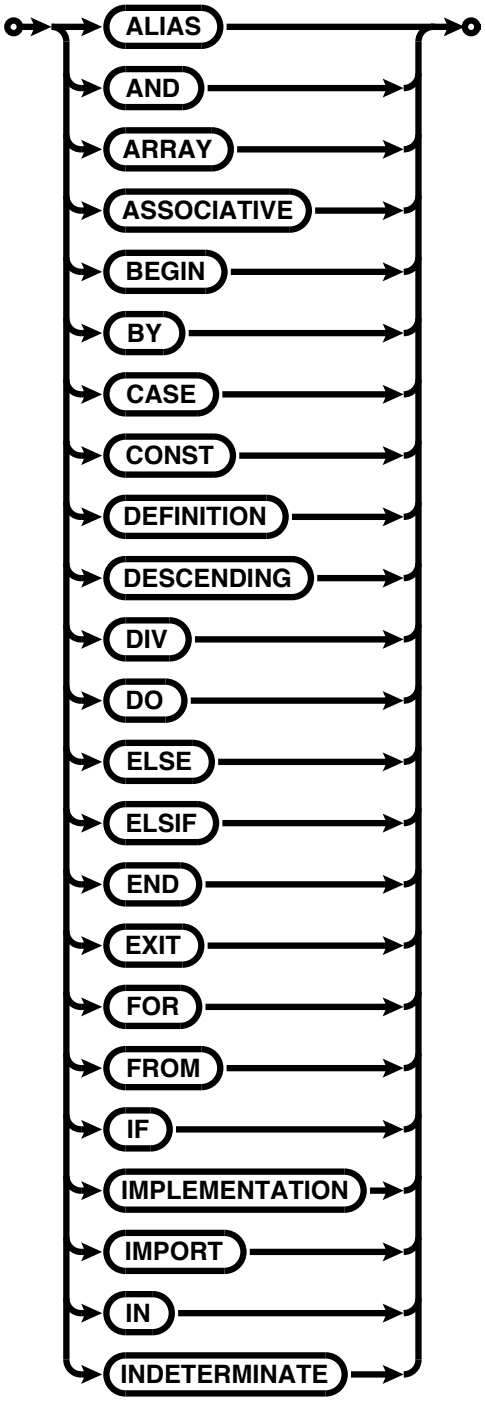
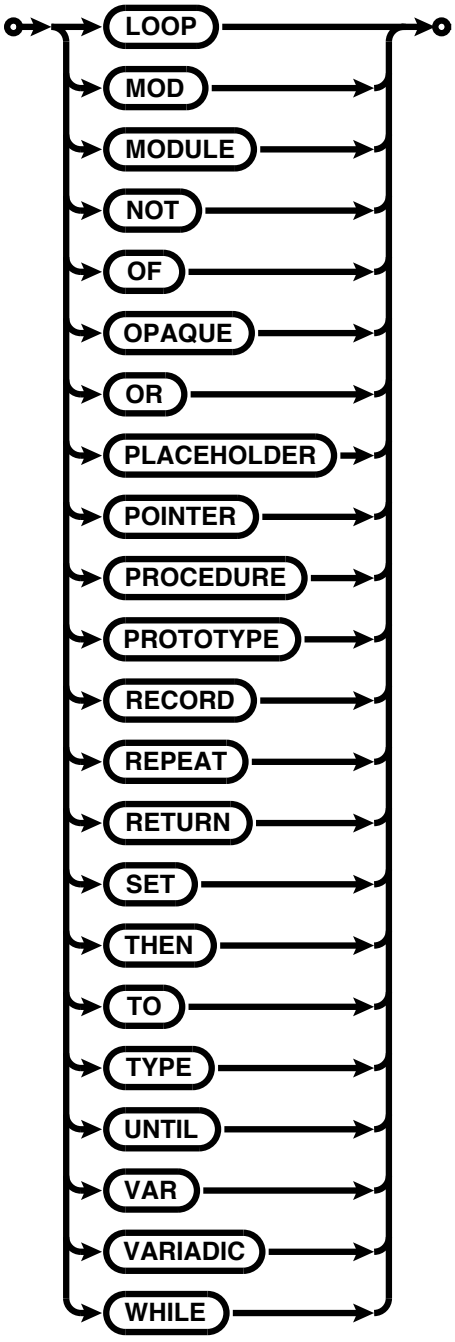
B.2 Terminal Symbols

#1 Reserved Words





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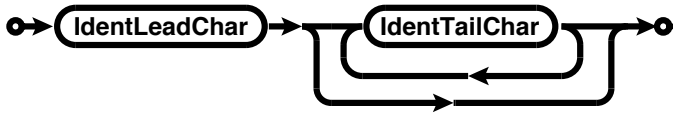
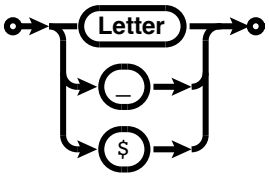
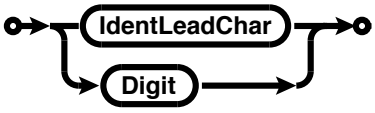
#2 Identifier



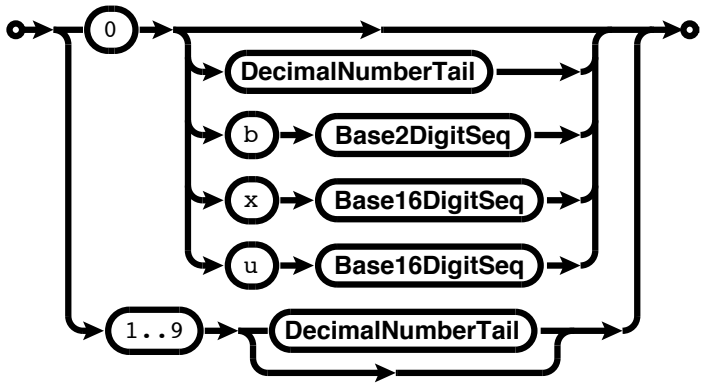
#2.1 Identifier Leading Character



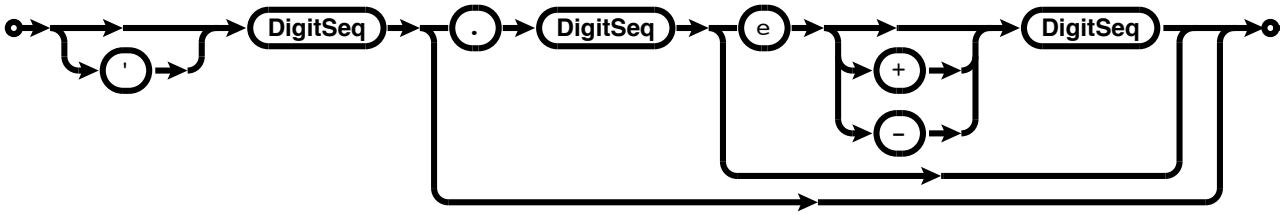
#2.2 Identifier Tail Character



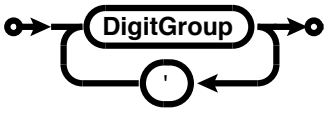
#3 Numeric Literal



#3.1 Decimal Number Tail



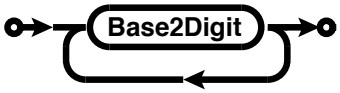
#3.2 Digit Sequence



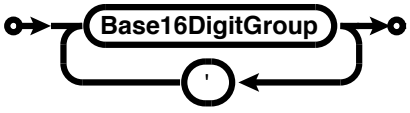
#3.2b Digit Group

#3.3 Base-2 Digit Sequence

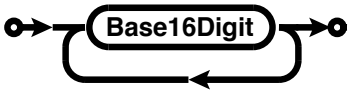
#3.3b Base-2 Digit Group



#3.4 Base-16 Digit Sequence



#3.4b Base-16 Digit Group



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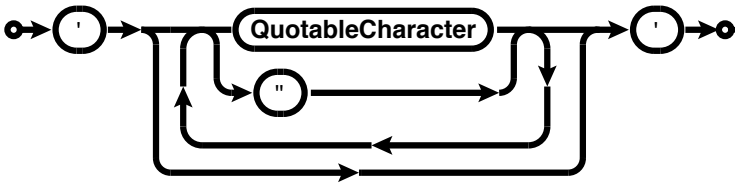
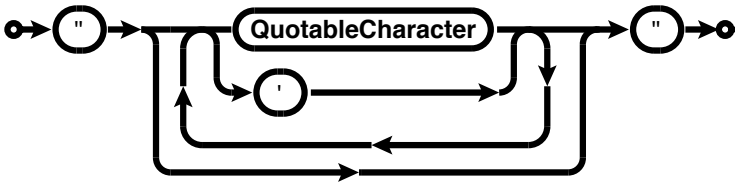
#4 String Literal

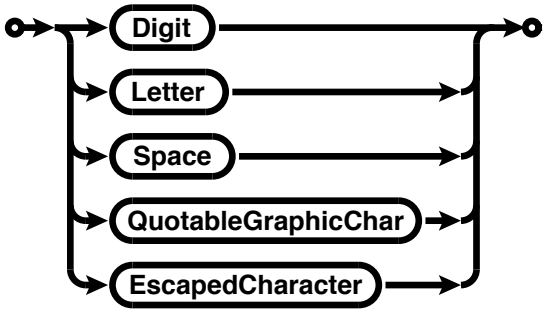
#4.1 Single Quoted String



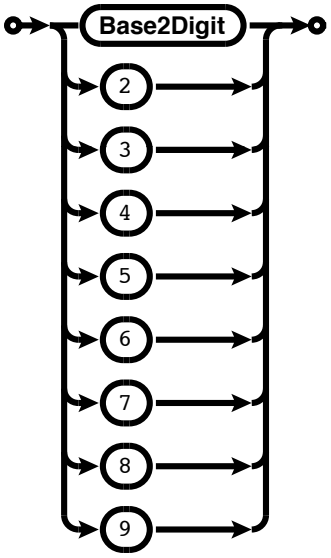
#4.2 Double Quoted String



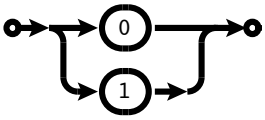
#4.3 Quotable Character



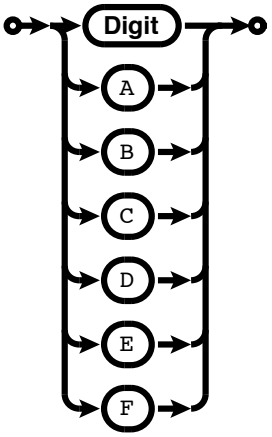
#4.4 Digit



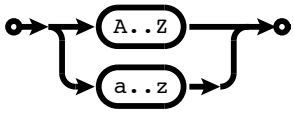
#4.5 Base-2 Digit



#4.6 Base-16 Digit



#4.7 Letter



#4.8 Space

```
CONST Space = CHR(20)
```

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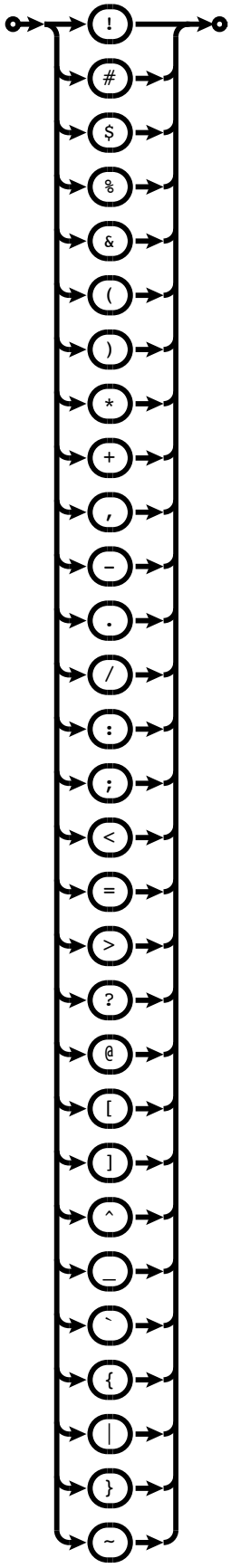
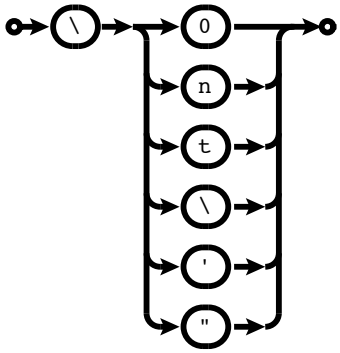
#4.9 Quotable Graphic Character



#4.10 Escaped Character



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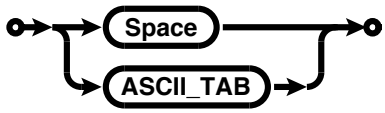
B.3 Ignore Symbols

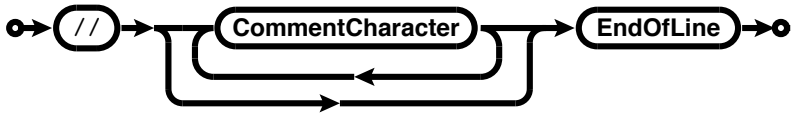
#1 Whitespace



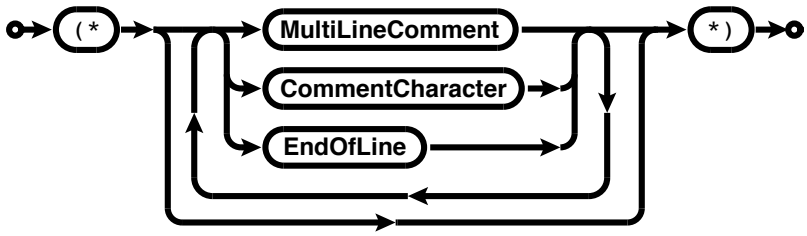
#1.1 ASCII Tabulator

```
CONST ASCII_TAB = CHR(8)
```

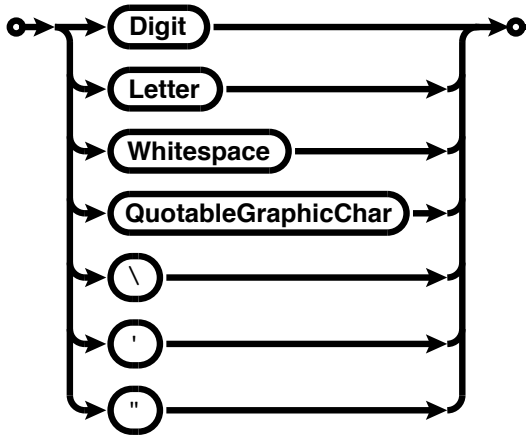
#2 Single-line Comment



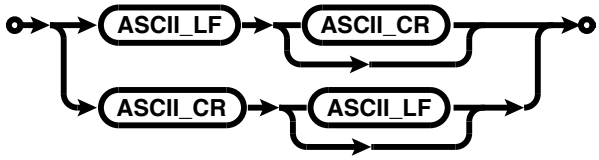
#3 Multi-line Comment



#3.1 Comment Character



#4 End Of Line Marker



#4.1 ASCII Line Feed

```
CONST ASCII_LF = CHR(10)
```

#4.2 ASCII Carriage Return

```
CONST ASCII_CR = CHR(13)
```

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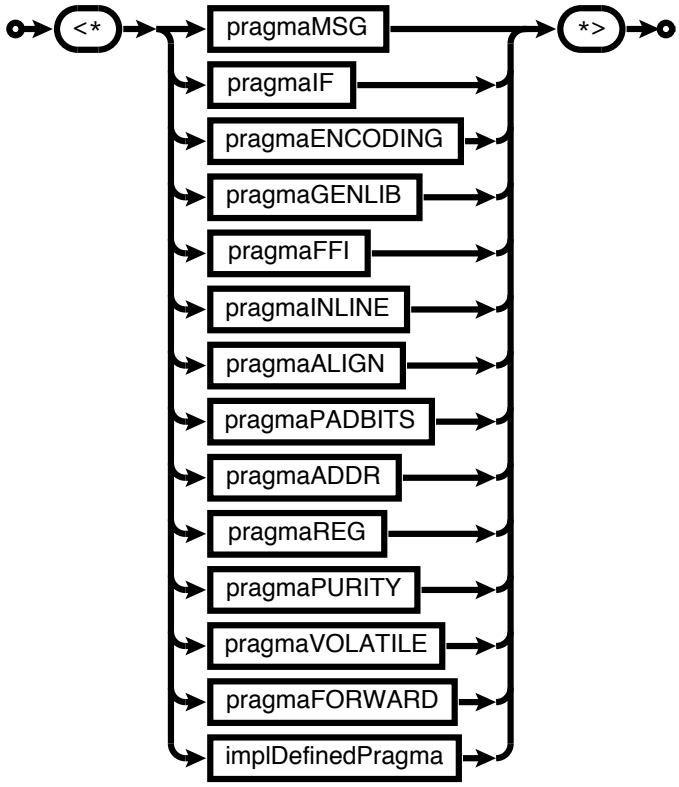
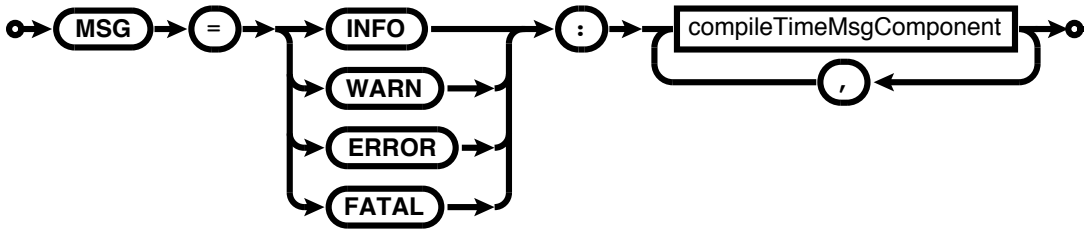
B.4 Pragma Grammar

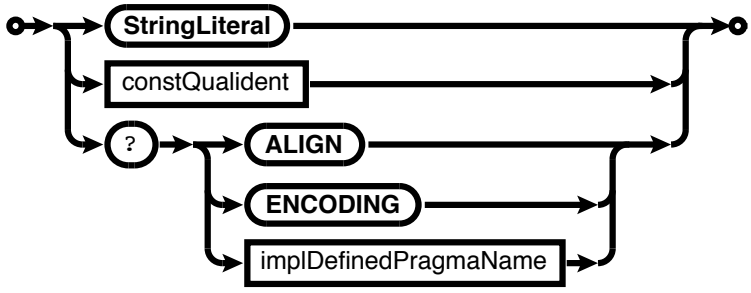
#1 Pragma



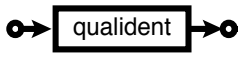
#2 Body Of Compile Time Message Pragma



#3 Compile Time Message Component



#3.1 Constant Qualified Identifier



#3.2 Implementation Defined Pragma Name

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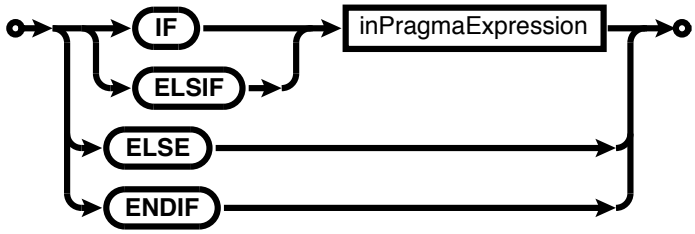
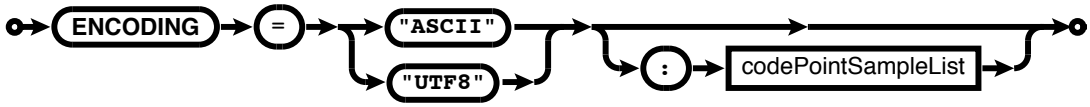
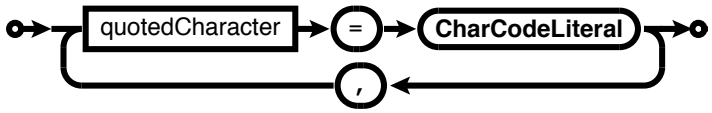
#4 Body Of Conditional Compilation Pragma



#5 Body Of Character Encoding Pragma



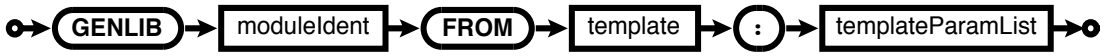
#6 Code Point Sample List



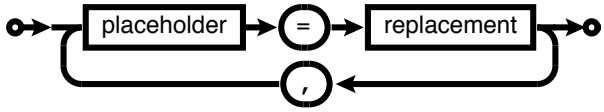
#6.1 Quoted Character

#6.2 Character Code Literal

#7 Body Of Library Template Expansion Pragma



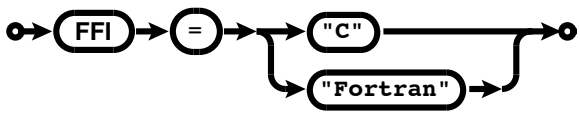
#8 Template Parameter List



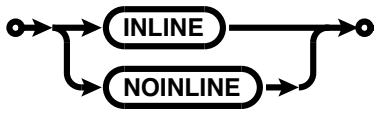
#8.1 Placeholder

#8.2 Replacement

#9 Body Of Foreign Function Interface Pragma



#10 Body Of Procedure Inlining Pragma



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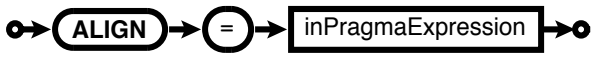
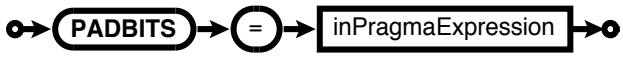
#11 Body Of Memory Alignment Pragma

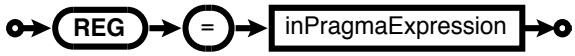


#12 Body Of Bit Padding Pragma

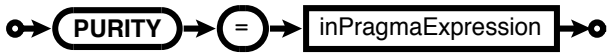


#13 Body Of Memory Mapping Pragma

#14 Body Of Register Mapping Pragma

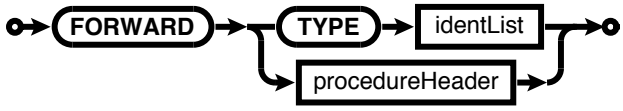


#15 Body Of Purity Attribute Pragma

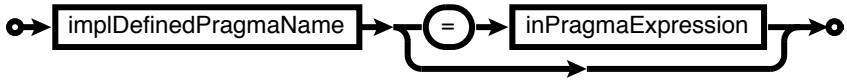


#16 Body Of Volatile Attribute Pragma

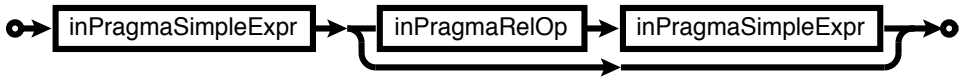
#17 Body Of Forward Declaration Pragma



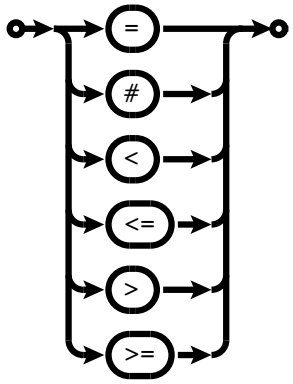
#18 Body Of Implementation Defined Pragma



#19 In-Pragma Expression



#19.1 In-Pragma Relational Operator



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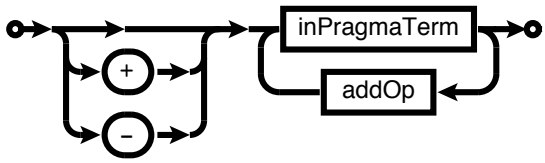
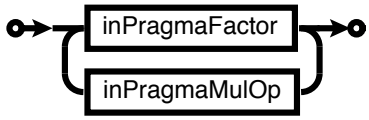
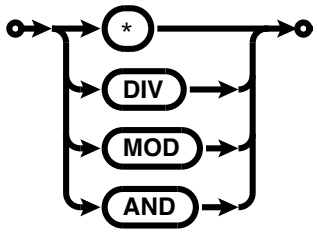
#20 In-Pragma Simple Expression



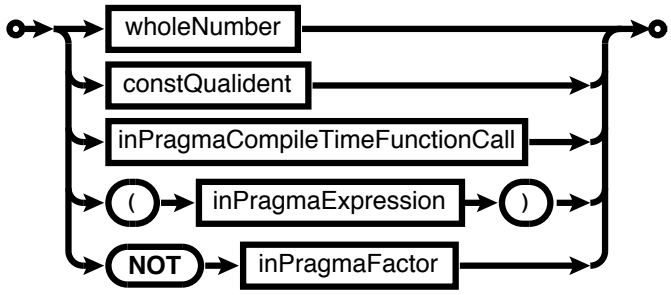
#21 In-Pragma Term



#21.1 In-Pragma Multiply Operator

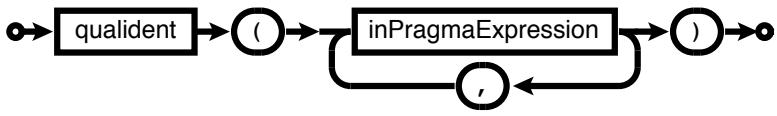


#22 In-Pragma Factor



#22.1 Whole Number

#23 In-Pragma Compile-Time Function Call



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