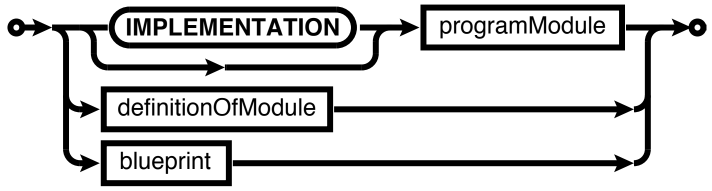
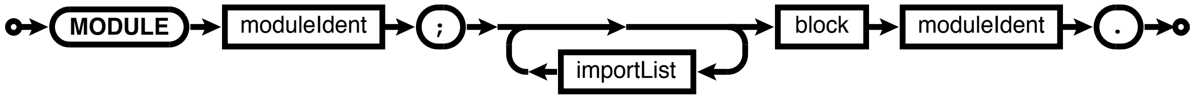
Appendix B: Syntax Diagrams

B.1 Non-Terminal Symbols

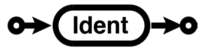
#1 Compilation Unit



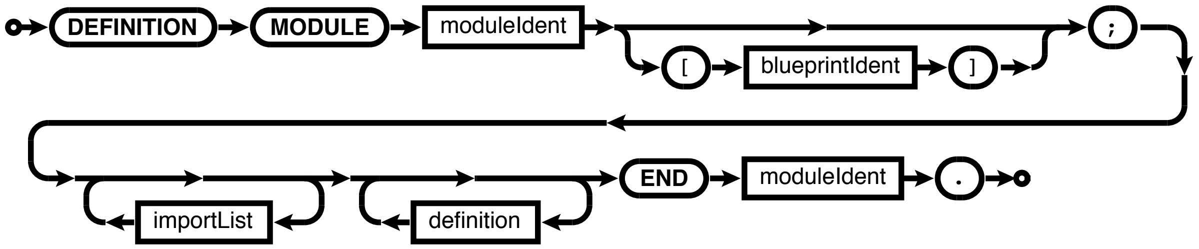
#2 Program Module



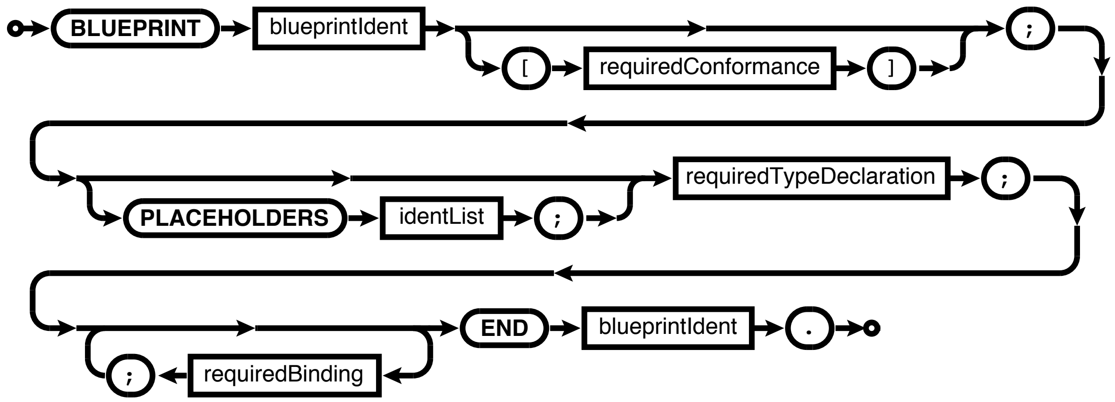
#2.1 Module Identifier



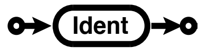
#3 Definition Of Module



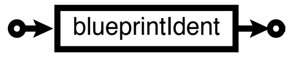
#4 Blueprint



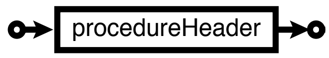
#4.1 Blueprint Identifier



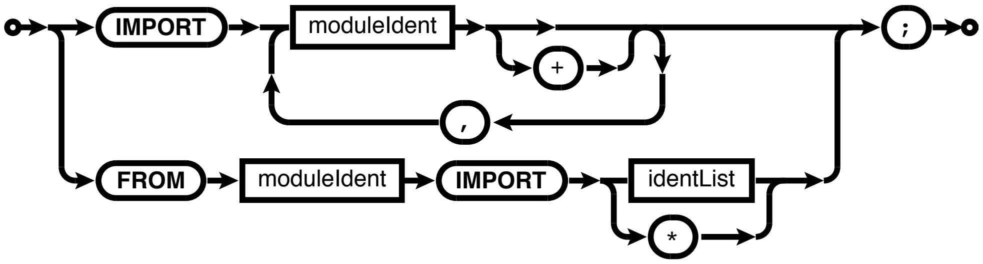
#4.2 Required Conformance



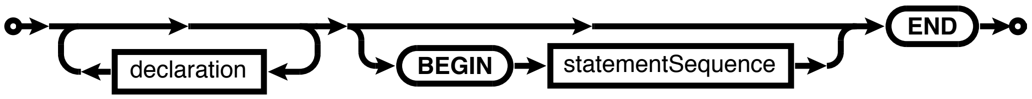
#4.3 Required Binding



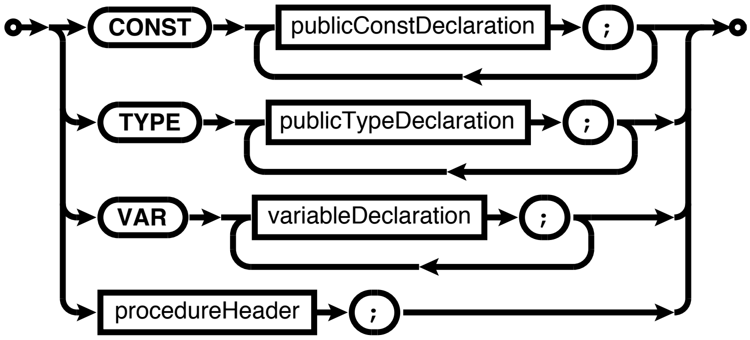
#5 Import List



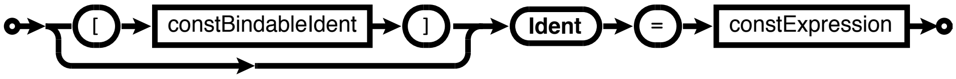
#6 Block



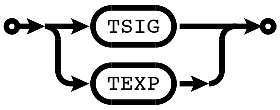
#7 Definition



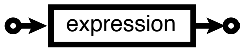
#8 Public Constant Declaration



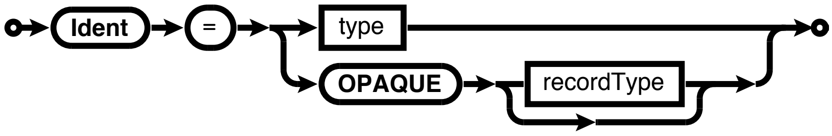
#8.1 CONST Bindable Identifier



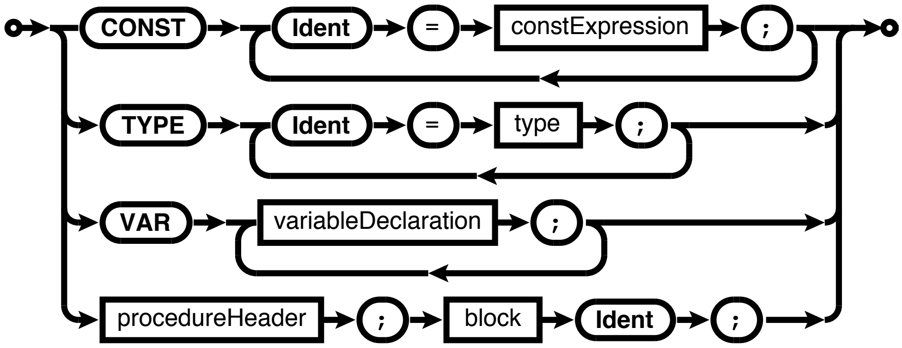
#8.2 Constant Expression



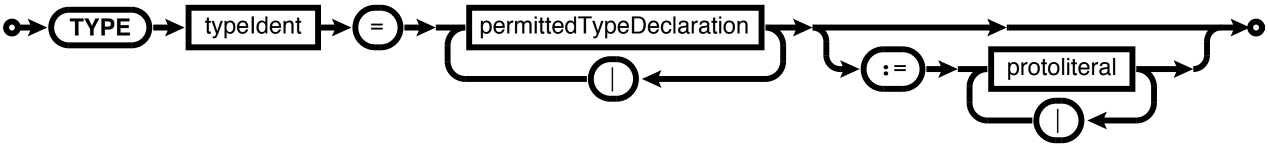
#9 Public Type Declaration



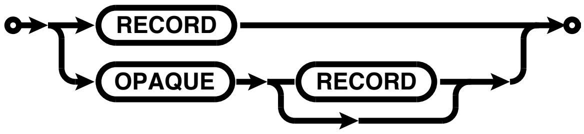
#10 Declaration



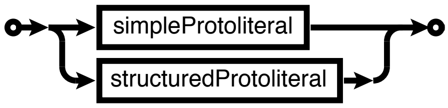
#11 Required Type Declaration



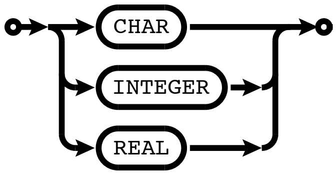
#12 Permitted Type Declaration



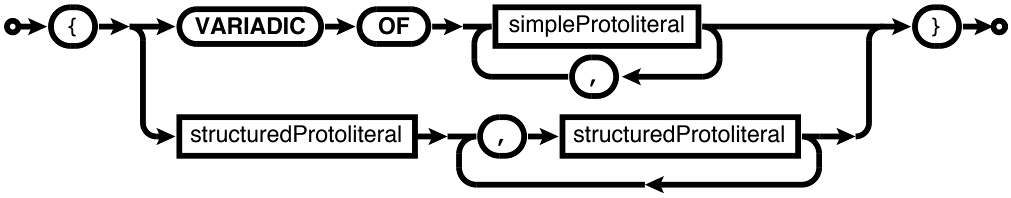
#13 Proto-Literal



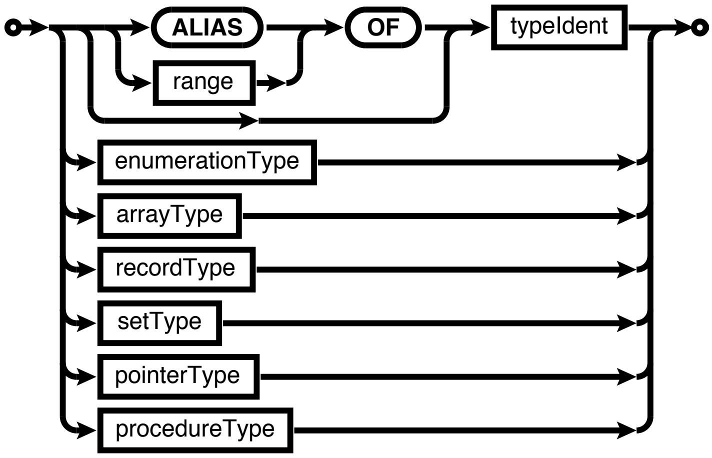
#13.1 Simple Proto-Literal



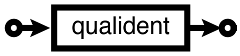
#14 Structured Proto-Literal



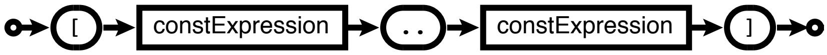
#15 Type



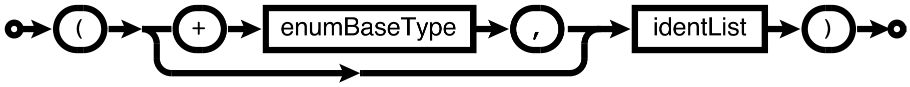
#15.1 Type Identifier



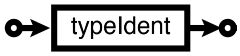
#16 Range



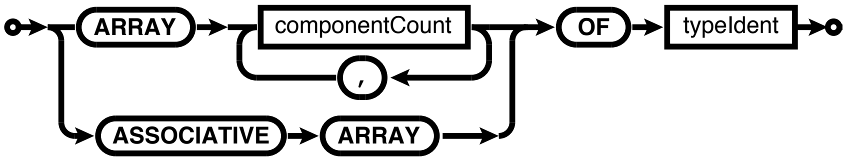
#17 Enumeration Type



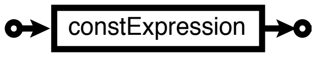
#17.1 Enumeration Base Type



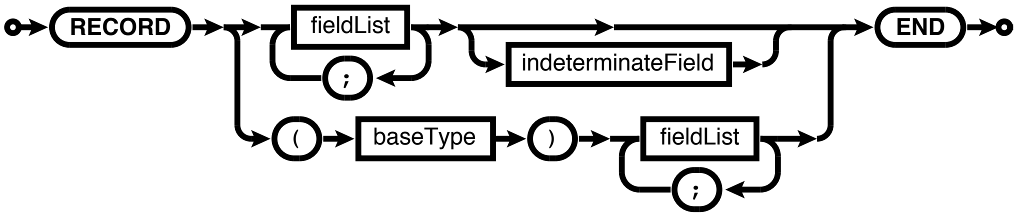
#18 Array Type



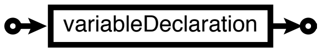
#18.1 Component Count



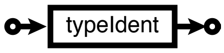
#19 Record Type



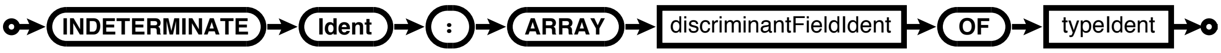
#19.1 Field List



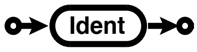
#19.2 Base Type



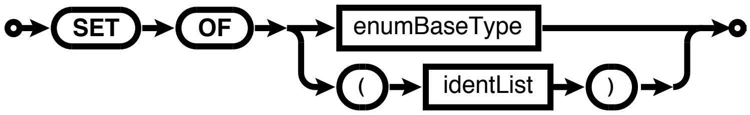
#20 Indeterminate Field



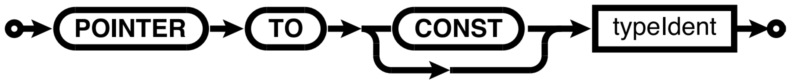
#20.1 Discriminant Field Identifier



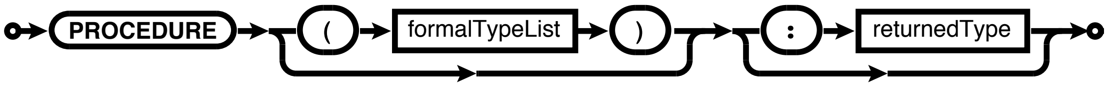
#21 Set Type



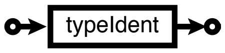
#22 Pointer Type



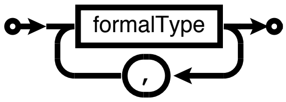
#23 Procedure Type



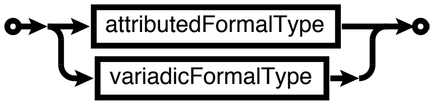
#23.1 Returned Type



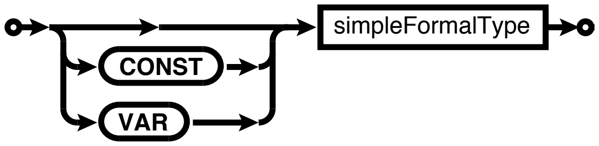
#24 Formal Type List



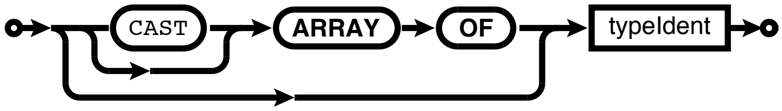
#25 Formal Type



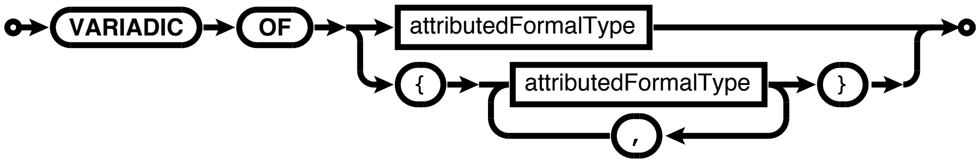
#26 Attributed Formal Type



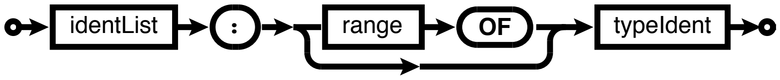
#27 Simple Formal Type



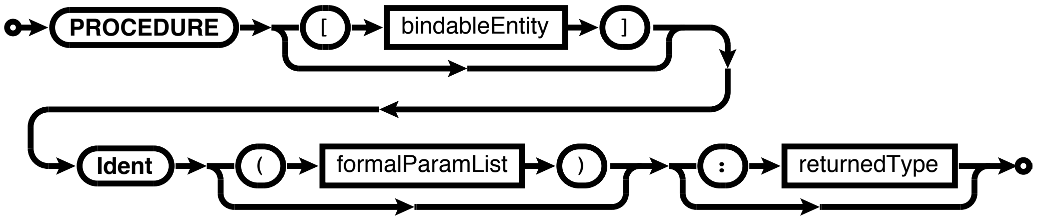
#28 Variadic Formal Type



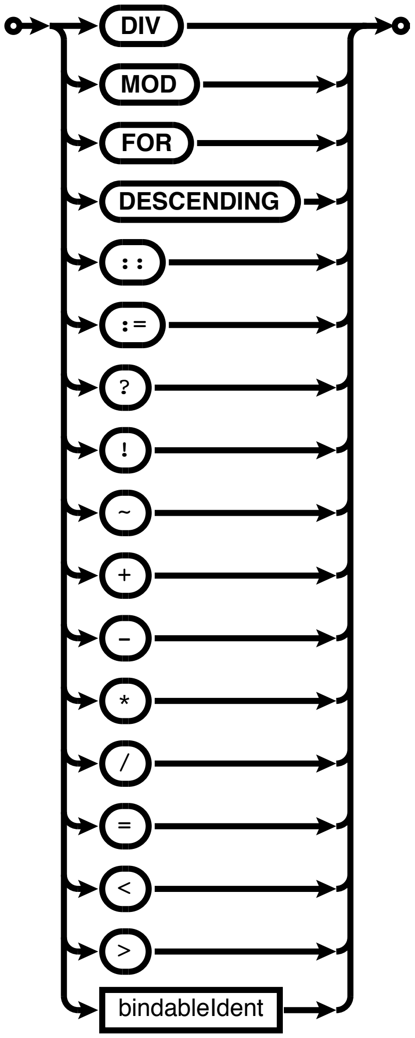
#29 Variable Declaration



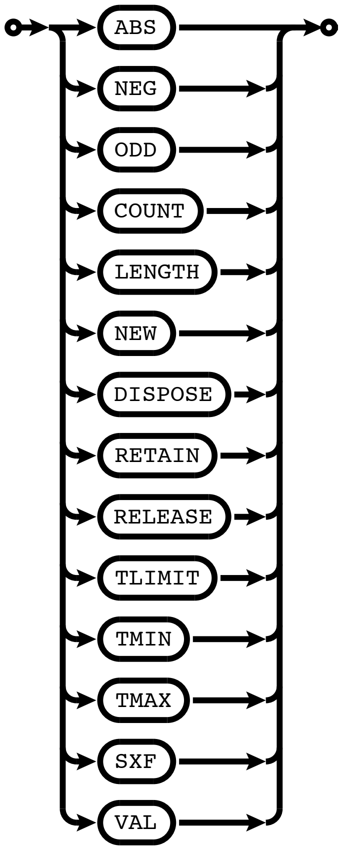
#30 Procedure Header



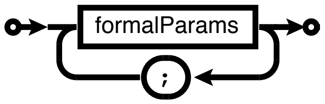
#31 Bindable Entity



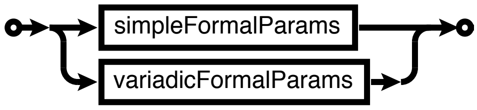
#31.1 Bindable Identifier



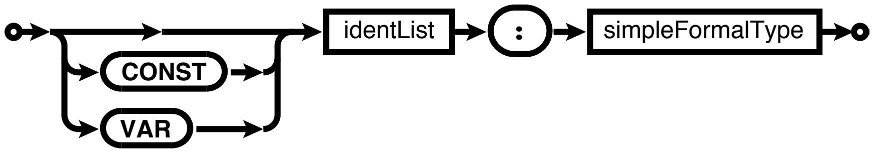
#32 Formal Parameter List



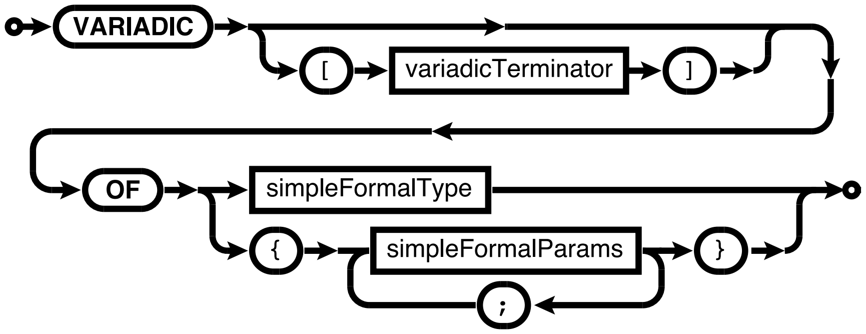
#33 Formal Parameters



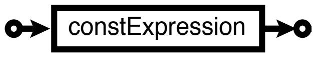
#34 Simple Formal Parameters



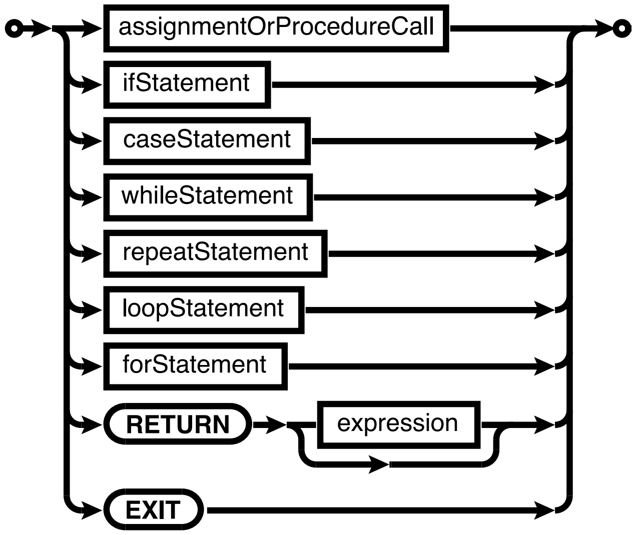
#35 Variadic Formal Parameters



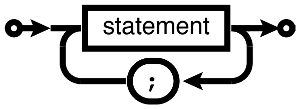
#35.1 Variadic Terminator



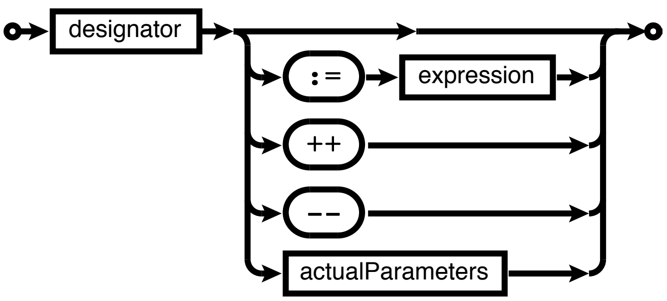
#36 Statement



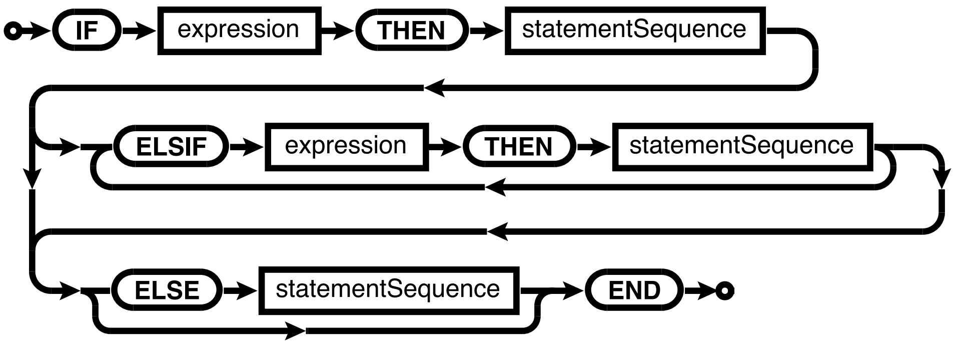
#37 StatementSequence



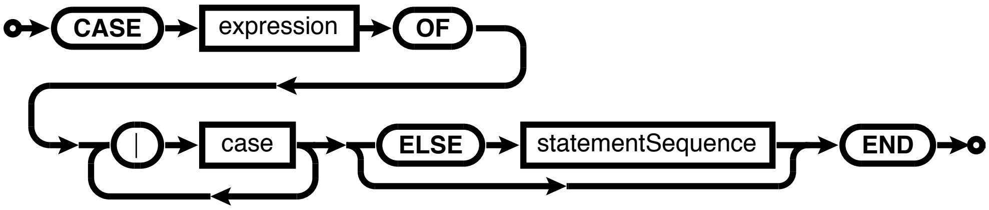
#38 Assignment Or Procedure Call



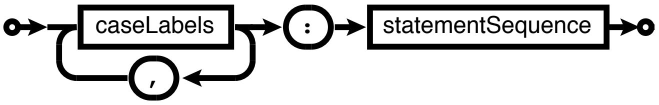
#39 IF Statement



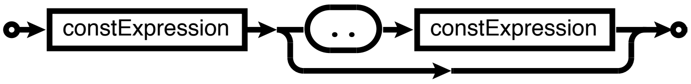
#40 CASE Statement



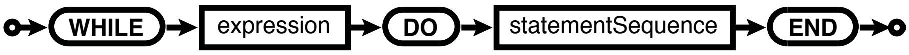
#41 Case



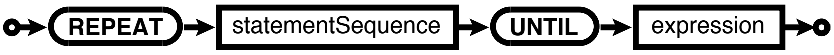
#42 Case Labels



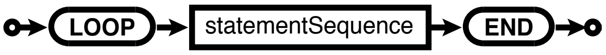
#43 WHILE Statement



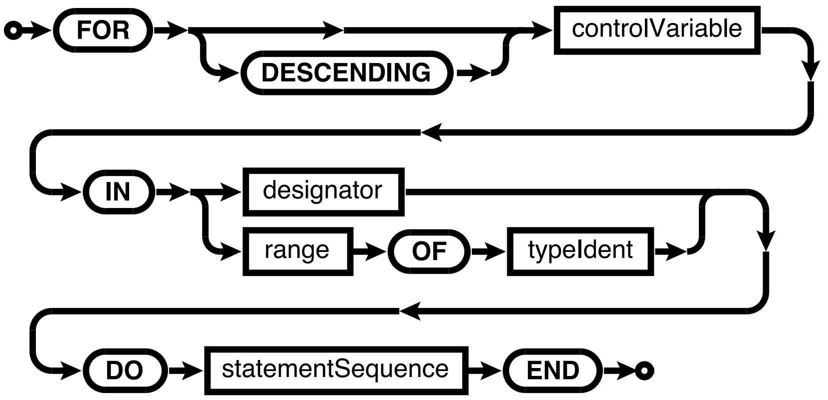
#44 REPEAT Statement



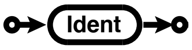
#45 LOOP Statement



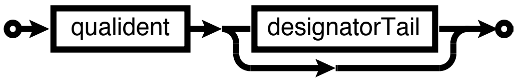
#46 FOR Statement



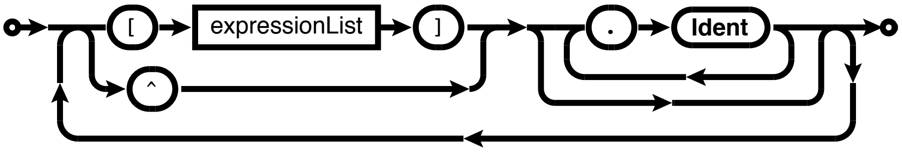
#46.1 Control Variable



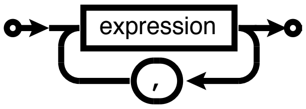
#47 Designator



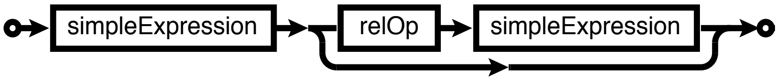
#48 Designator Tail



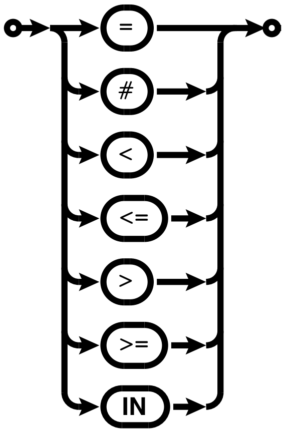
#49 Expression List



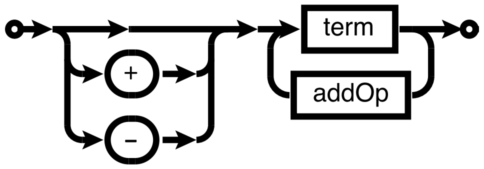
#50 Expression



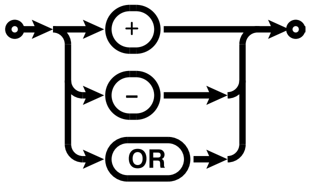
#50.1 Relational Operator



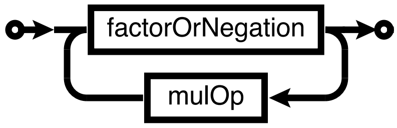
#51 Simple Expression



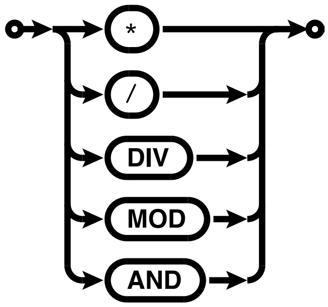
#51.1 Add Operator



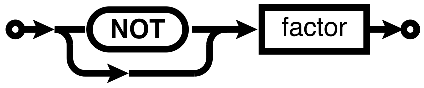
#52 Term



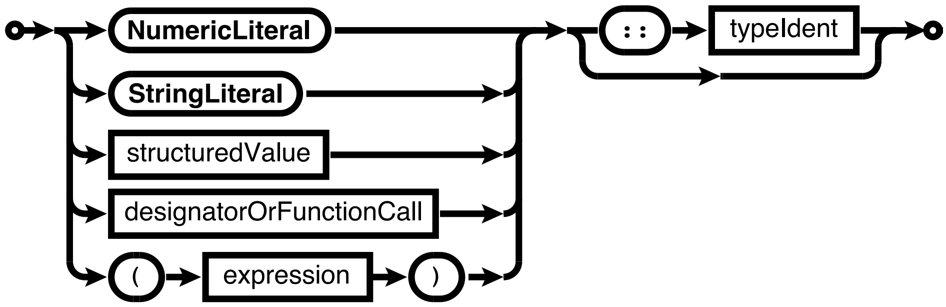
#52.1 Multiply Operator



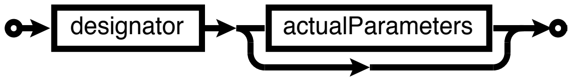
#53 Factor Or Negation



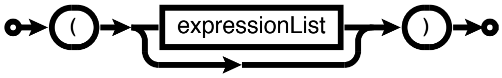
#54 Factor



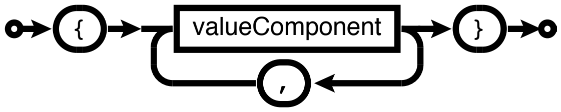
#55 Designator Or Function Call



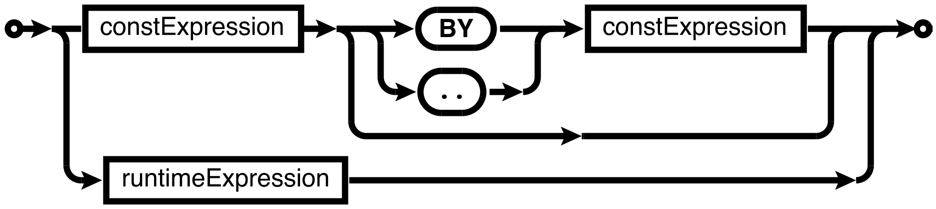
#56 Actual Parameters



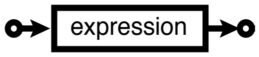
#57 Structured Value



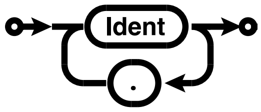
#58 Value Component



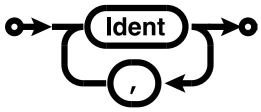
#58.1 Runtime Expression



#59 Qualified Identifier

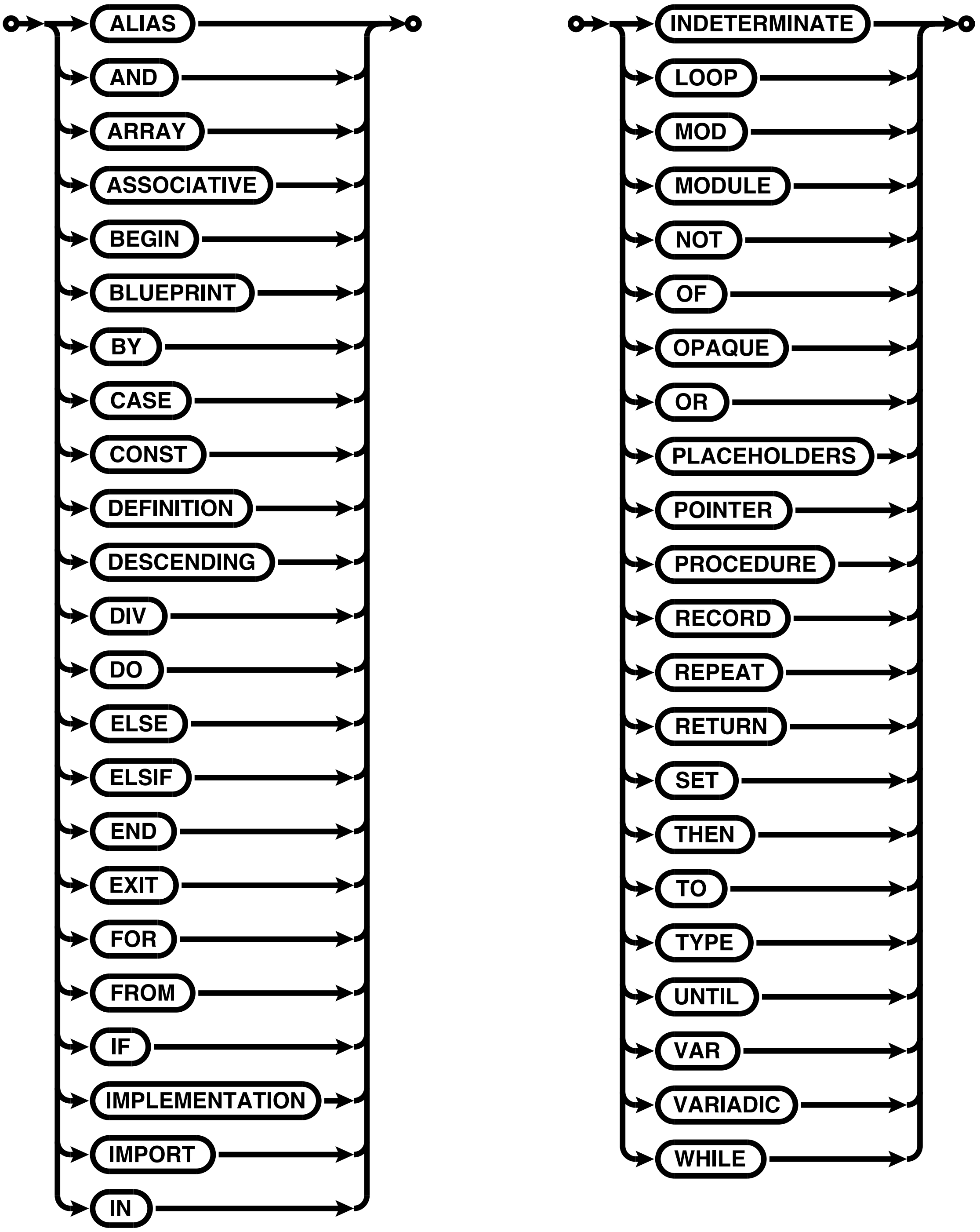


#60 Identifier List

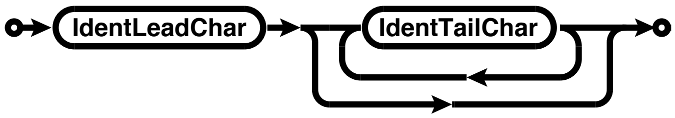


B.2 Terminal Symbols

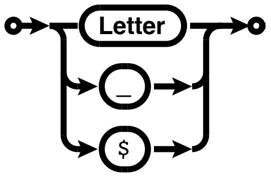
#1 Reserved Words



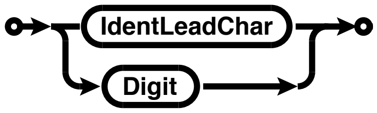
#2 Identifier



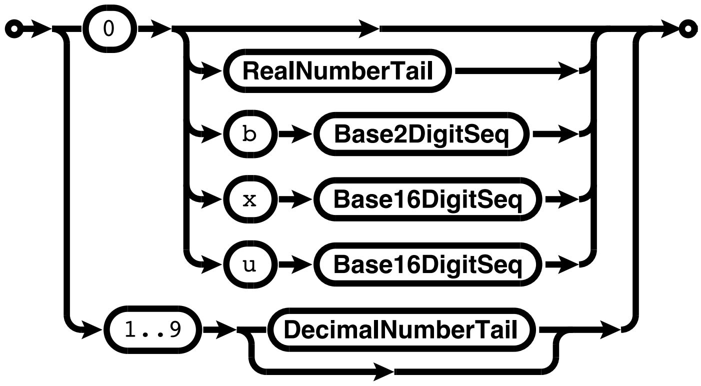
#2.1 Identifier Leading Character



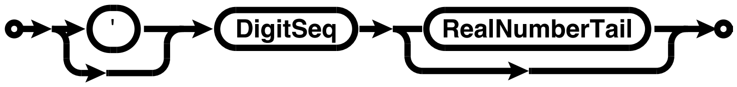
#2.2 Identifier Tail Character



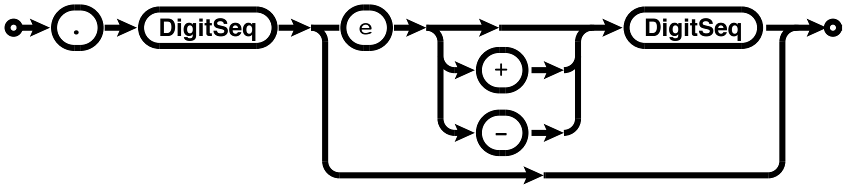
#3 Numeric Literal



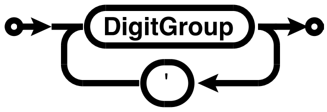
#3.1 Decimal Number Tail



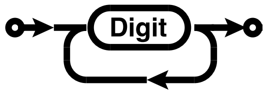
#3.2 Real Number Tail



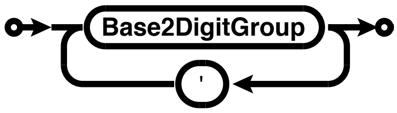
#3.3 Digit Sequence



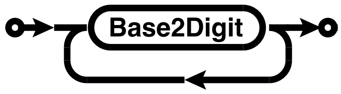
#3.3b Digit Group



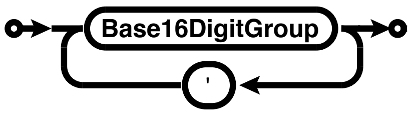
#3.4 Base-2 Digit Sequence



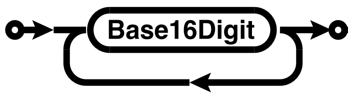
#3.4b Base-2 Digit Group



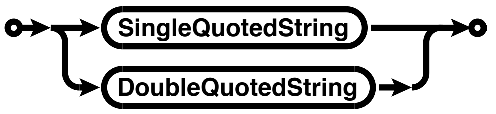
#3.5 Base-16 Digit Sequence



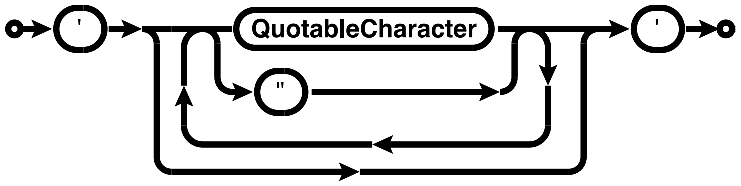
#3.5b Base-16 Digit Group



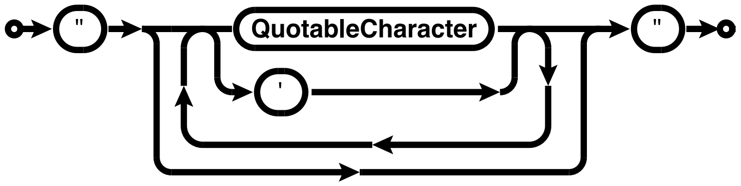
#4 String Literal



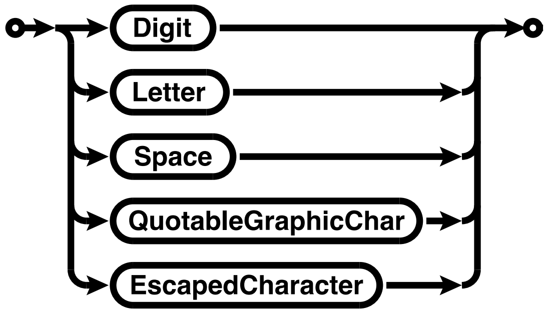
#4.1 Single Quoted String



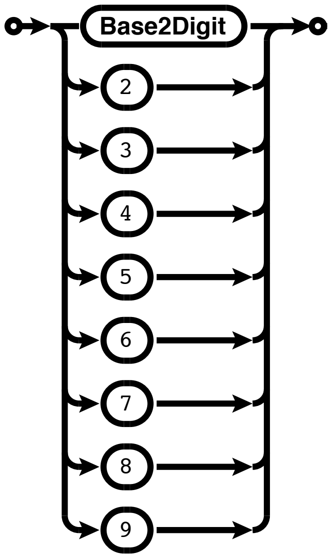
#4.2 Double Quoted String



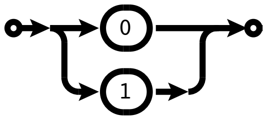
#4.3 Quotable Character



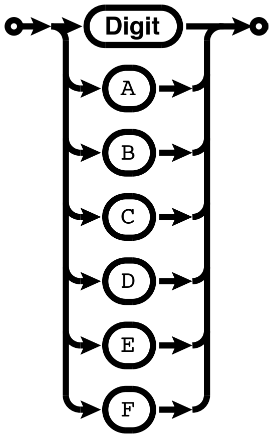
#4.4 Digit



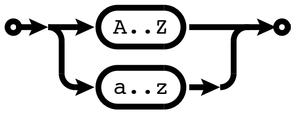
#4.5 Base-2 Digit



#4.6 Base-16 Digit



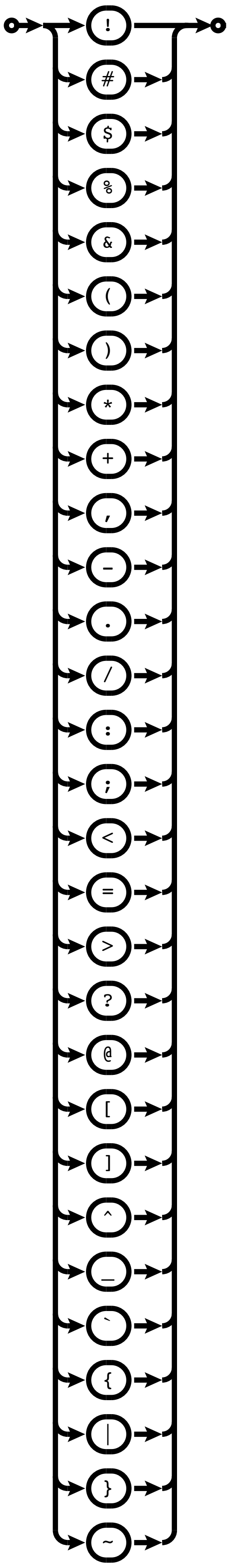
#4.7 Letter



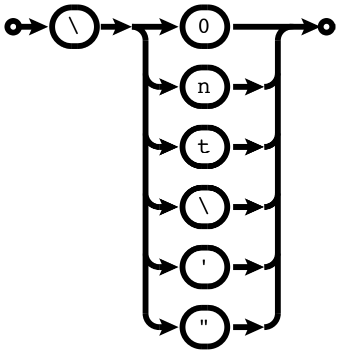
#4.8 Space

```
CONST Space = CHR(32)
```

#4.9 Quotable Graphic Character

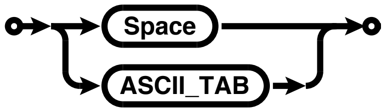


#4.10 Escaped Character



B.3 Ignore Symbols

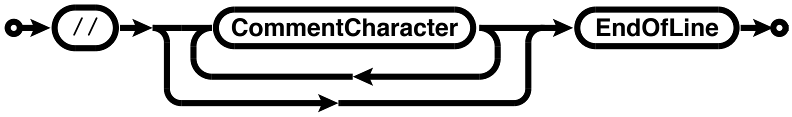
#1 Whitespace



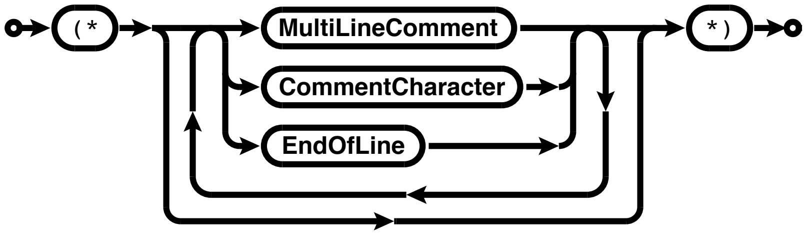
#1.1 ASCII Tabulator

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

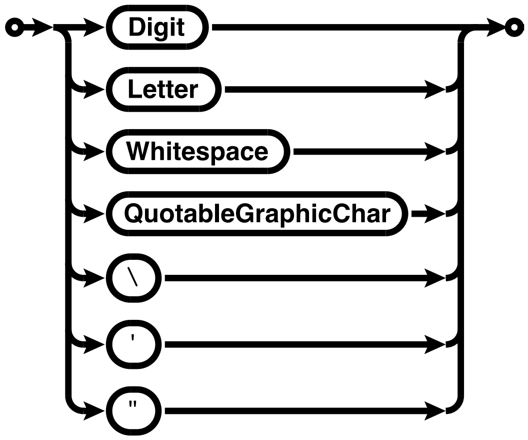
#2 Single-line Comment



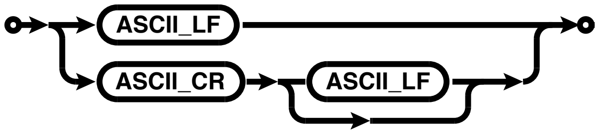
#3 Multi-line Comment



#3.1 Comment Character



#4 End Of Line Marker



#4.1 ASCII Line Feed

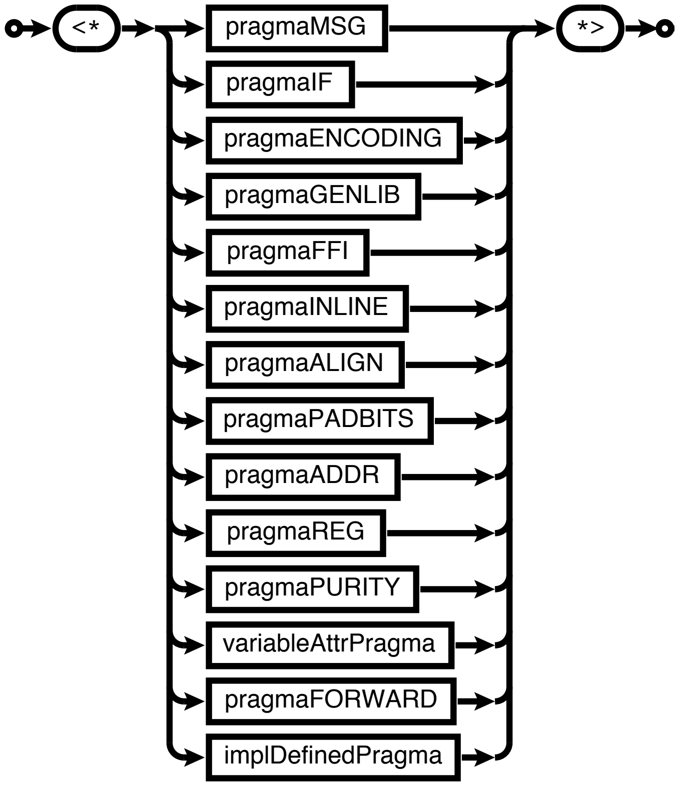
```
CONST ASCII_LF = CHR(10)
```

#4.2 ASCII Carriage Return

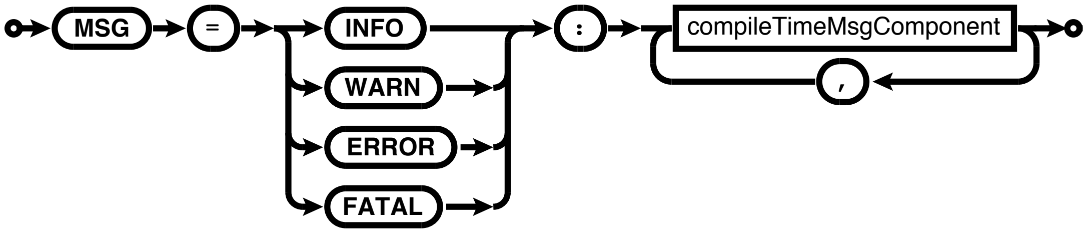
```
CONST ASCII_CR = CHR(13)
```

B.4 Pragma Grammar

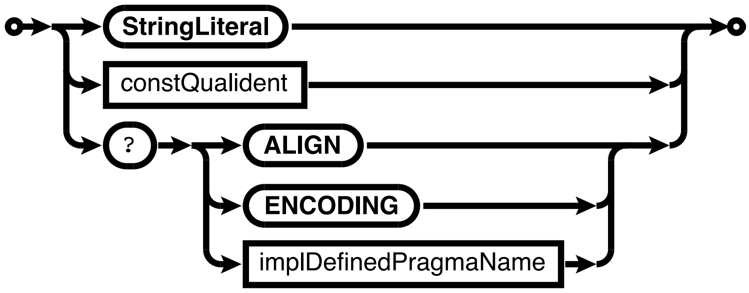
#1 Pragma



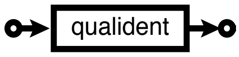
#2 Body Of Compile Time Message Pragma



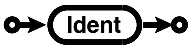
#3 Compile Time Message Component



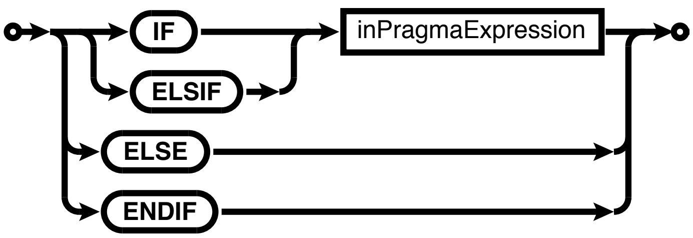
#3.1 Constant Qualified Identifier



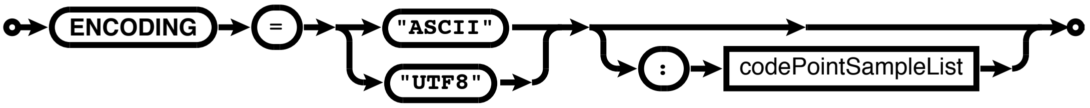
#3.2 Implementation Defined Pragma Name



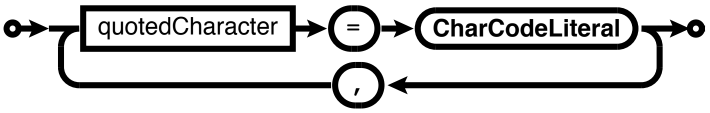
#4 Body Of Conditional Compilation Pragma



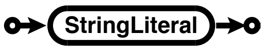
#5 Body Of Character Encoding Pragma



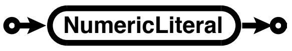
#6 Code Point Sample List



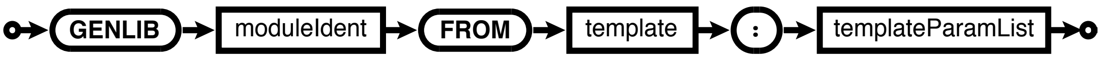
#6.1 Quoted Character



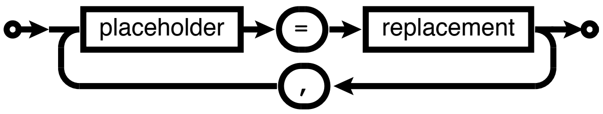
#6.2 Character Code Literal



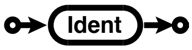
#7 Body Of Library Template Expansion Pragma



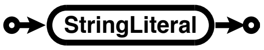
#8 Template Parameter List



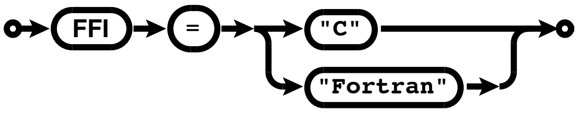
#8.1 Placeholder



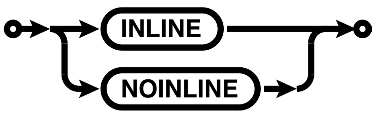
#8.2 Replacement



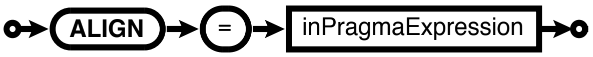
#9 Body Of Foreign Function Interface Pragma



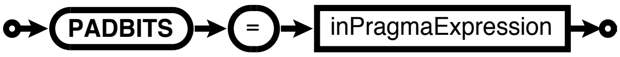
#10 Body Of Procedure Inlining Pragma



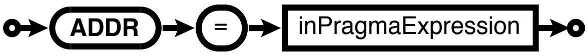
#11 Body Of Memory Alignment Pragma



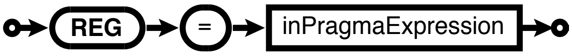
#12 Body Of Bit Padding Pragma



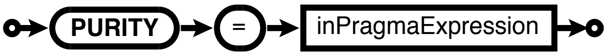
#13 Body Of Memory Mapping Pragma



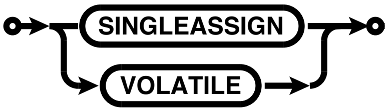
#14 Body Of Register Mapping Pragma



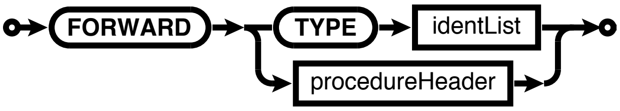
#15 Body Of Purity Attribute Pragma



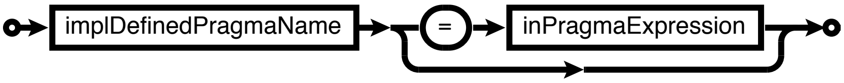
#16 Body Of Variable Attribute Pragma



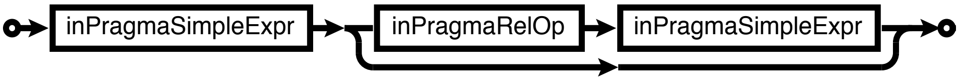
#17 Body Of Forward Declaration Pragma



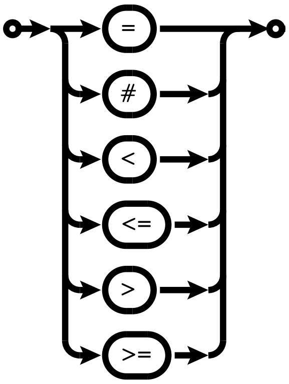
#18 Body Of Implementation Defined Pragma



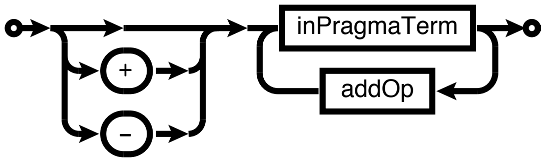
#19 In-Pragma Expression



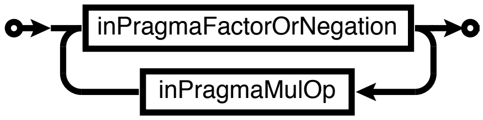
#19.1 In-Pragma Relational Operator



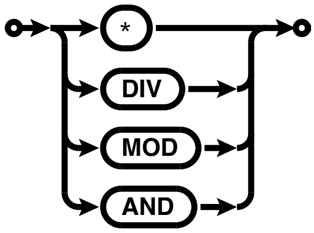
#20 In-Pragma Simple Expression



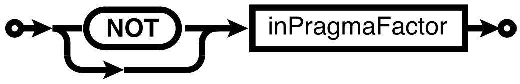
#21 In-Pragma Term



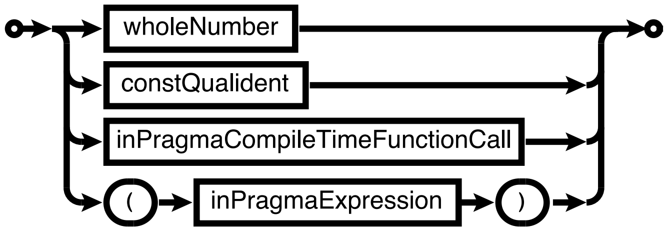
#21.1 In-Pragma Multiply Operator



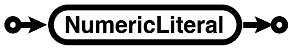
#22 In-Pragma Factor Or Negation



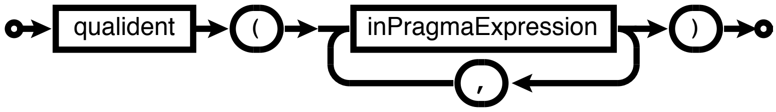
#23 In-Pragma Factor



#23.1 Whole Number



#24 In-Pragma Compile-Time Function Call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