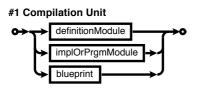
The Syntax Of Modula-2 — Revision 2010

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Changes are marked relative to the March 31 version

(1) Non-Terminals

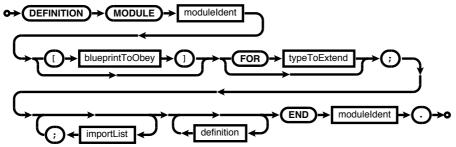


Non-Terminals have been reordered as follows:

- (1) Definition Module Syntax
- (2) Implementation/Program Module Syntax
- (3) Blueprint Syntax

Definition Module Syntax



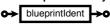


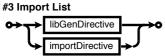
#2.1 Module Identifier, Blueprint Identifier, Type to Extend



o→(Ident)→o

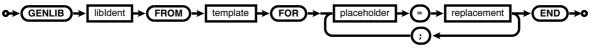
#2.2 Blueprint to Obey

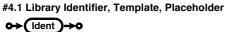


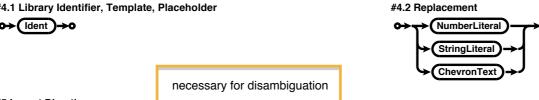


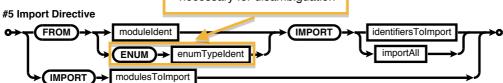
raised to top-level rule as it is referenced by #2 and #32



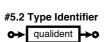








#5.1 Enumeration Type Identifier

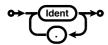


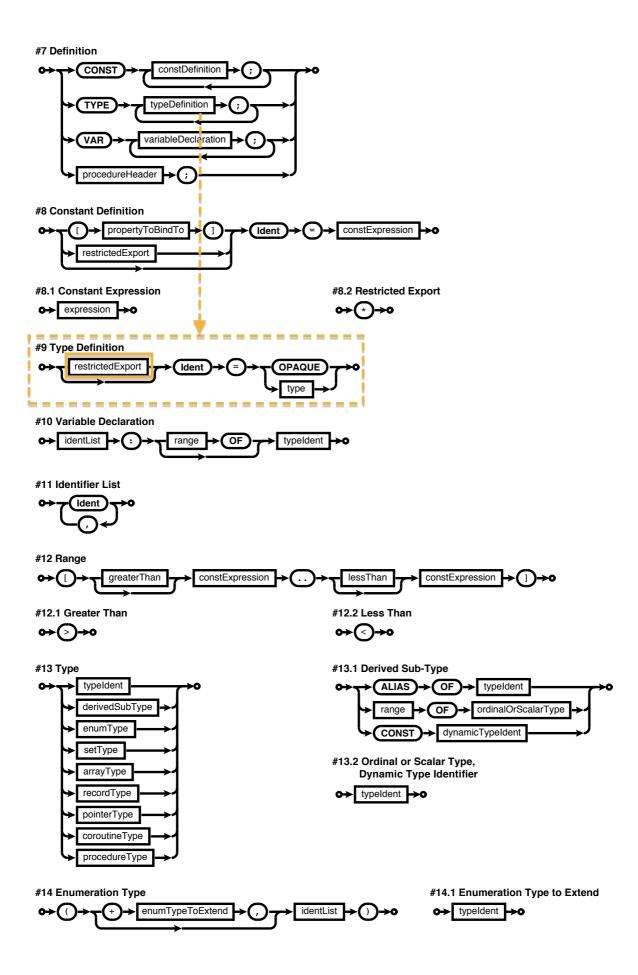
typeldent

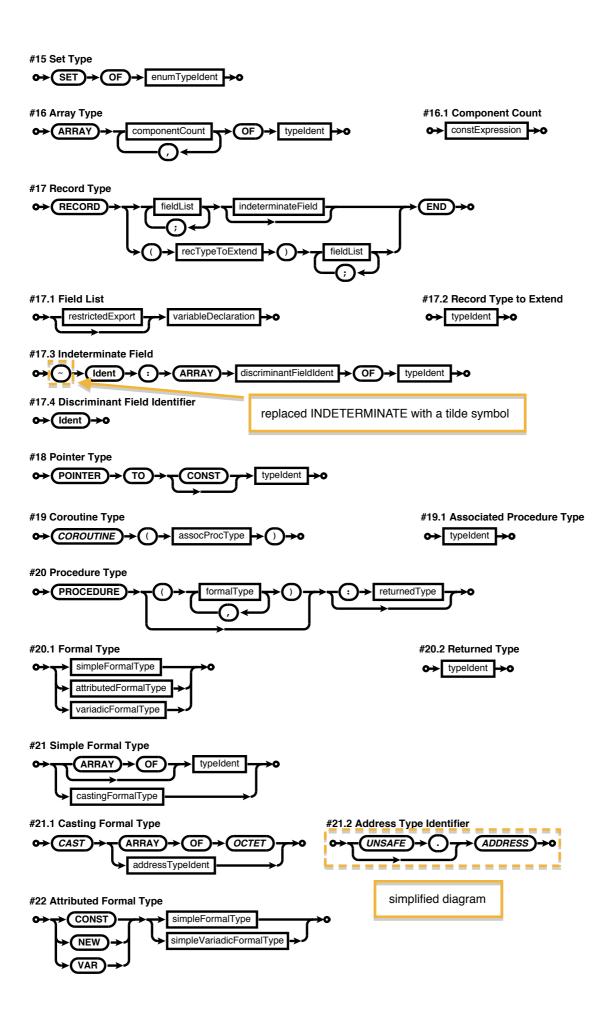
#5.3 Modules to Import,

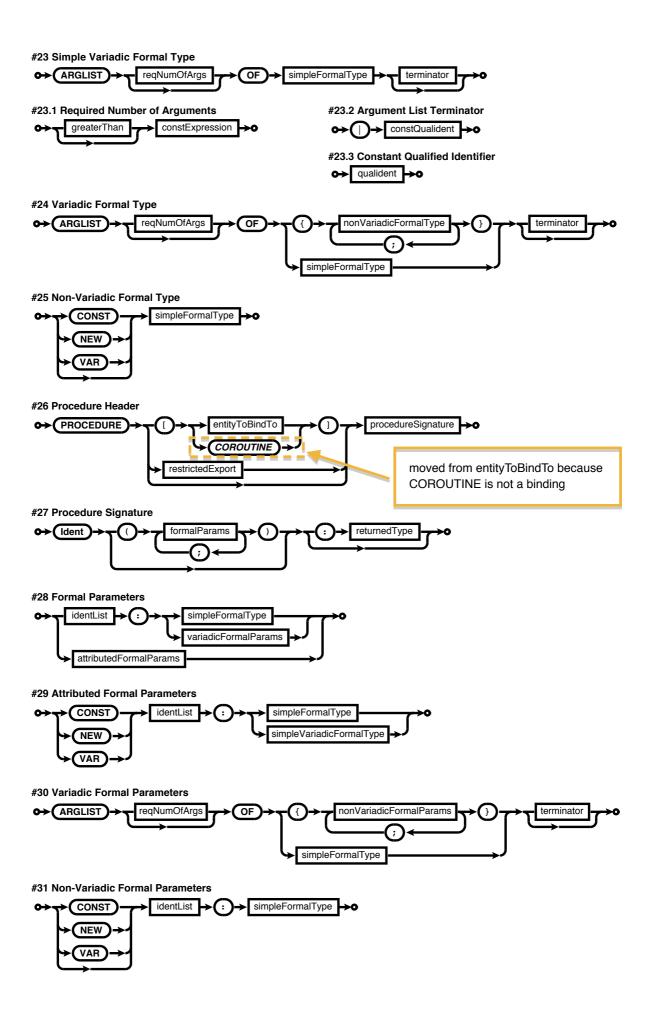


#6 Qualified Identifier

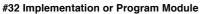


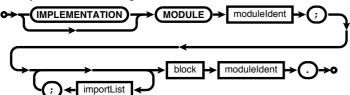




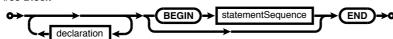


Implementation and Program Module Syntax

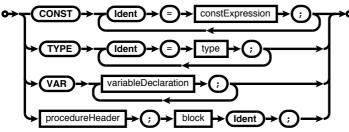




#33 Block



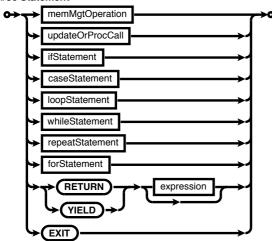
#34 Declaration



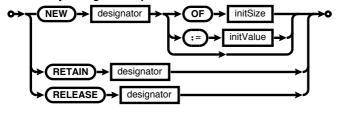
#35 Statement Sequence



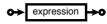
#36 Statement



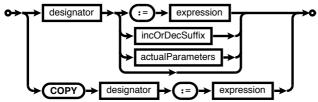
#37 Memory Management Operation



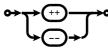
#37.1 Initialisation Size, Initialisation Value

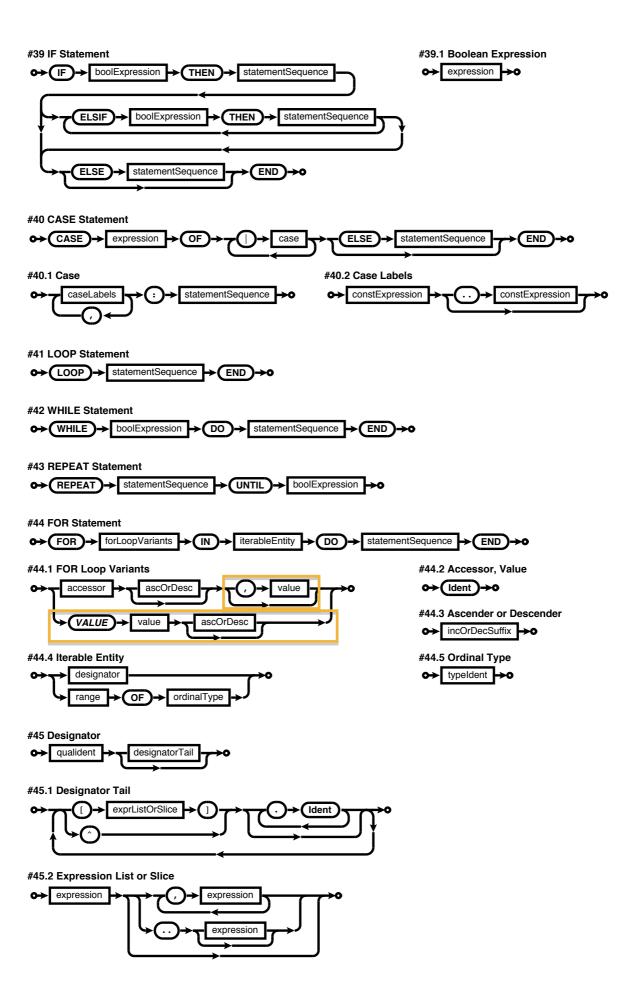


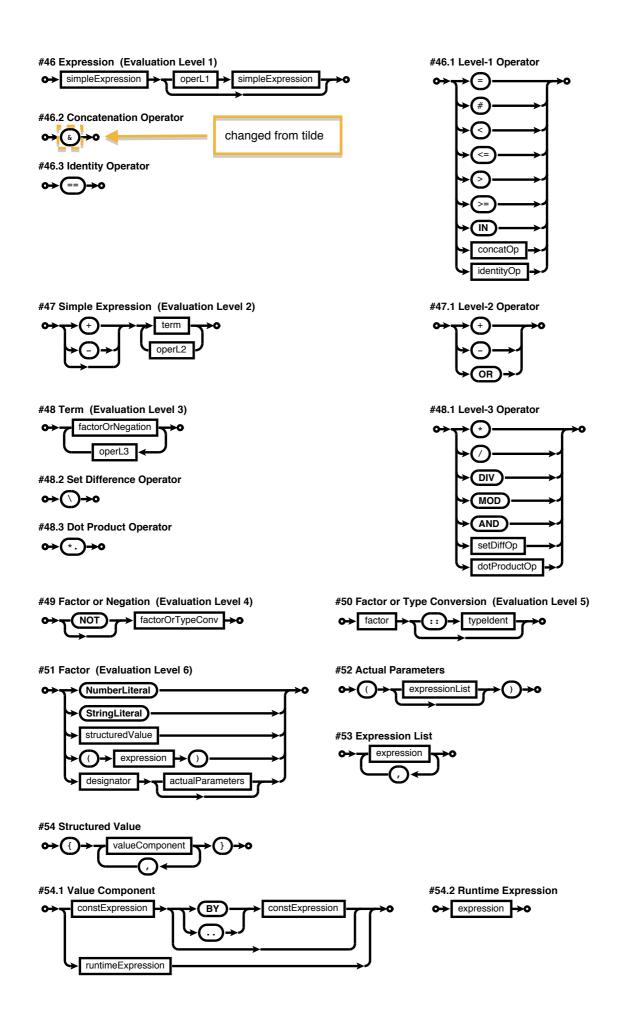
#38 Update or Procedure Call



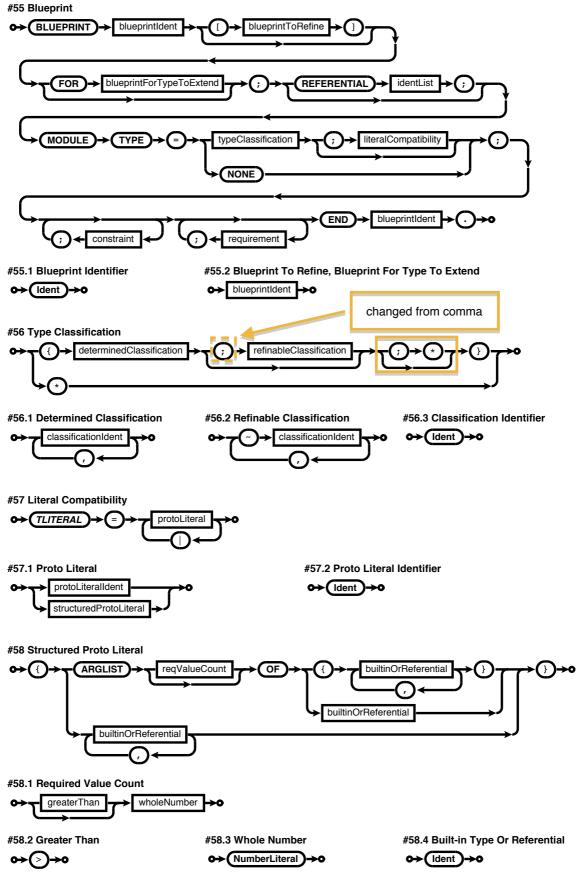
#38.1 Increment or Decrement Suffix

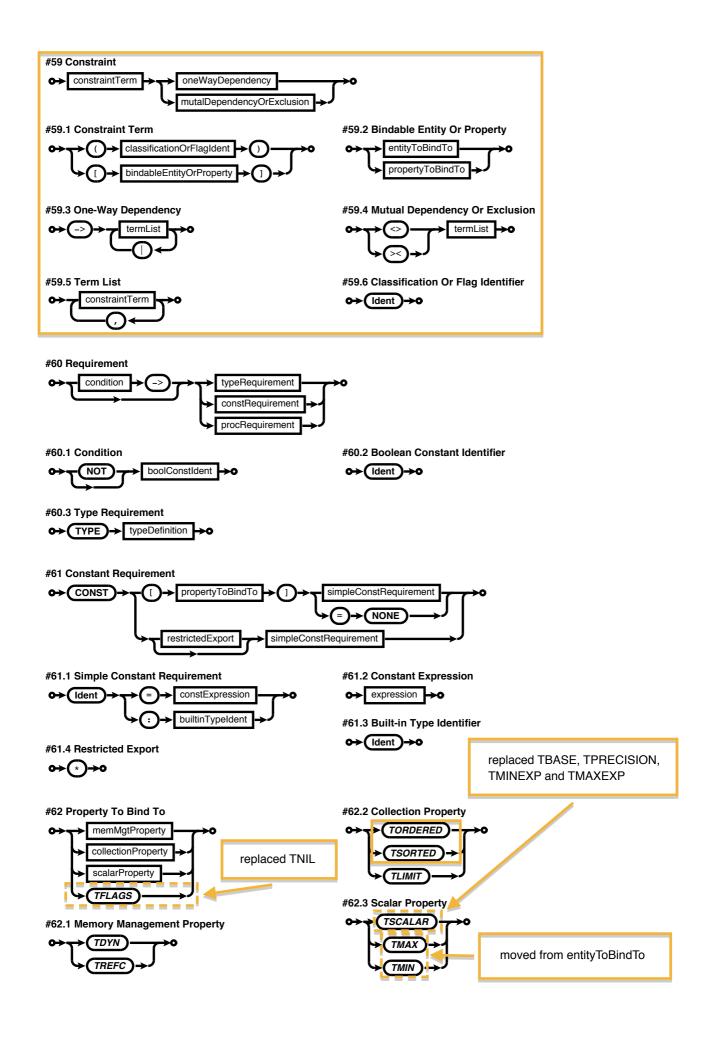


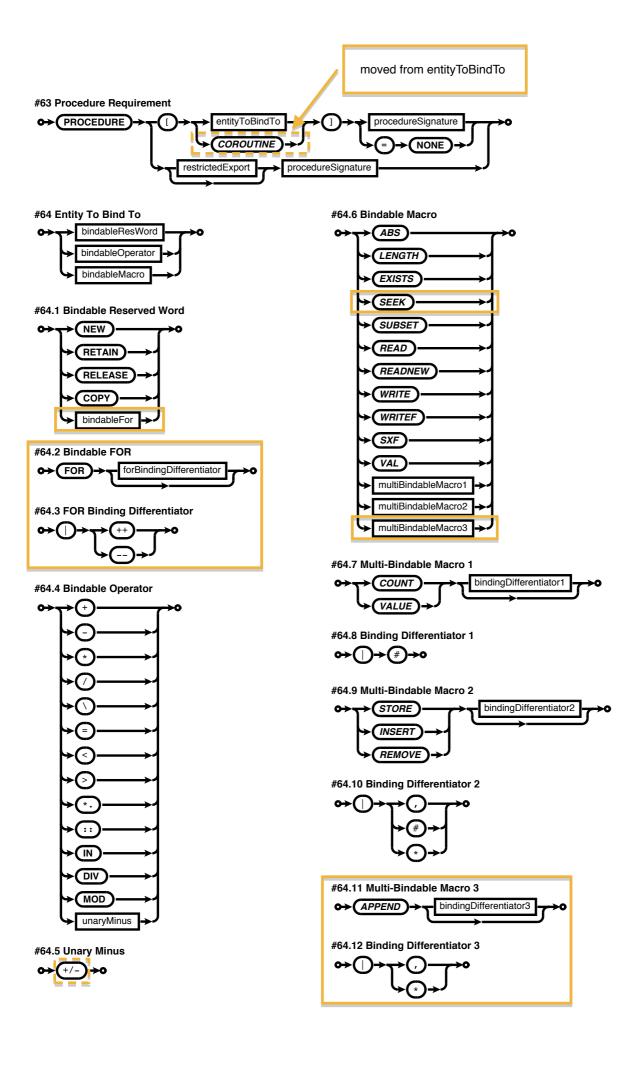




Blueprint Syntax







(2) Terminals

#1 Reserved Words

ALIAS	DEFINITION	GENLIB	NOT	RETAIN
AND	DIV	IF	OF	RETURN
ARGLIST	DO	IMPLEMENTATION	OPAQUE	SET
ARRAY	ELSE	IMPORT	OR	THEN
BEGIN	ELSIF	IN	POINTER	то
BLUEPRINT	END	LOOP	PROCEDURE	TYPE
ВҮ	ENUM	MOD	RECORD	UNTIL
CASE	EXIT	MODULE	REFERENTIAL	VAR
CONST	FOR	NEW	RELEASE	WHILE
COPY	FROM	NONE	REPEAT	YIELD

#2 Dual-Use Identifiers (Schrödinger's Tokens)

ABS	INSERT	STORE	TMAX	VAL
ADDRESS	LENGTH	SUBSET	TMIN	VALUE
APPEND	OCTET	SXF	TORDERED	WRITE
CAST	READ	TDYN	TREFC	WRITEF
COUNT	READNEW	TFLAGS	TSCALAR	
COROUTINE	REMOVE	TLIMIT	TSORTED	ASM*
EXISTS	SEEK	TLITERAL	UNSAFE	REG *

#3 Special Symbol Tokens

•	~	+	=	==	()
,	• •	-	#	&	[]
:	:=	*	>	->	{	}
;	++	* •	>=	<>		
		/	<	<> ><		
^	::	\	<=	+/-		

#3.1 Quoted Text Delimiters

' << >>

#3.2 Comment Delimiters

! (* *)

#3.3 Pragma Affix and Delimiters



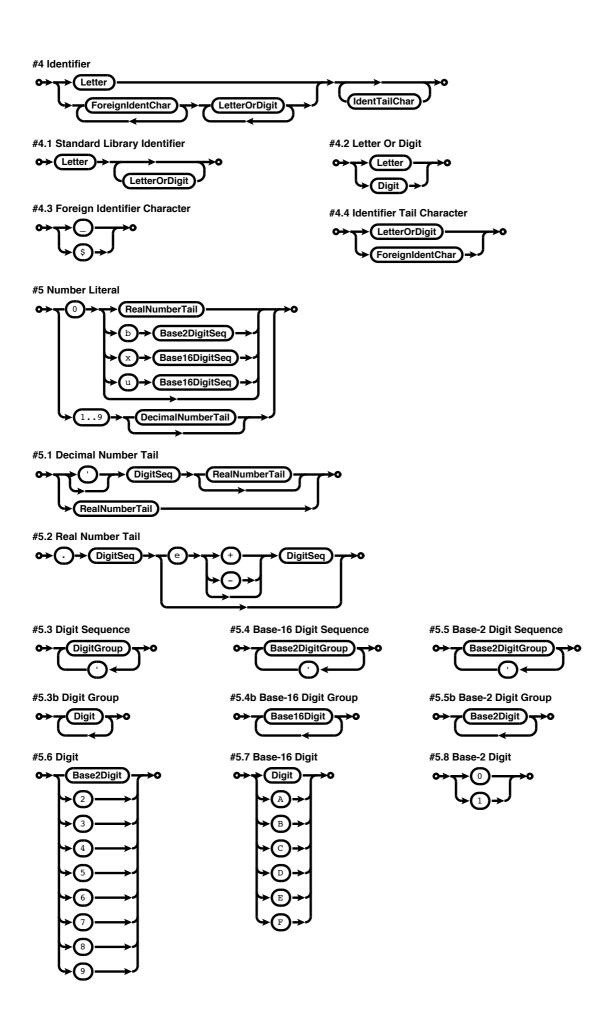
#3.4 Template Language Symbols

<# #> @@ // /* */

#3.5 Reserved Symbols

- for use as a token by Objective Modula-2
- 6 for use as lead character in identifiers and reserved words by language supersets
- for use as a character in identifiers and reserved words by implementations targeting OpenVMS

^{*} optional language facilities



#6 String Literal → SingleQuotedString DoubleQuotedString #6.1 Single Quoted String QuotableCharacter #6.2 Double Quoted String QuotableCharacter #6.3 Quotable Character #6.4 Letter **→** Digit Letter Space #6.5 Space NonAlphaNumQuotable CONST Space = CHR(32); EscapedCharacter #6.6 Non-Alphanumeric Quotable Character #6.7 Escaped Character **#7 Chevron Delimited Text** QuotableCharacter

(3) Ignore Symbols

#1 Whitespace

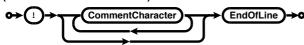


#1.1 ASCII Tabulator

CONST ASCII_TAB = CHR(8);

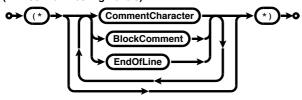
#2 Line Comment

(At the First Column of a Line)

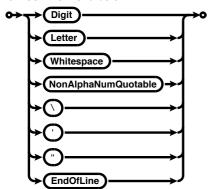


#3 Block Comment

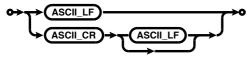
(At Most Ten Nesting Levels)



#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);

