

ISO/IEC TS 13211-3:2025-06 (E)

Programming languages - Prolog - Part 3: Definite clause grammar rules as an extension of ISO/IEC 13211-1

Contents		Page
Foreword		iv
Introduction		v
1 Scope		1
2 Normative references		1
3 Terms and definitions		2
3.3 Grammar terms		2
4 Symbols and abbreviations		4
5 Conformance — (ISO/IEC 13211-1:1995: 5 Compliance)		4
5.1 Prolog processor		4
5.5 Extensions		4
5.5.13 Grammar control constructs and built-in non-terminals		4
6 Syntax		5
6.1 Notation		5
6.1.2 Abstract term syntax		5
6.2.1 Prolog text		5
7 Language concepts and semantics		7
7.4 Prolog text		7
7.4.2 Directives		7
7.4.4 Grammar rules		7
7.5 Database		7
7.5.1 Preparing a Prolog text for execution		7
7.13 Grammar rules		7
7.13.1 Format of grammar rules		7
7.13.2 Terminals and non-terminals, semicontext		8
7.13.3 Non-terminal indicator		10
7.13.4 Executing clauses expanded from grammar rules		10
7.13.5 Logical expansion of grammar rules		11
7.13.6 Definitions of grammar control constructs		12
7.14 Grammar control constructs		13
7.14.1 []//0 – empty terminal sequence		13
7.14.2 '.'/2 – terminal sequence		13
7.14.3 (' , ')//2 – concatenation		13
7.14.4 (;)//2 – alternative		13
7.14.5 (;)//2 with (->)//2 – if-then-else		14
7.14.6 (' ')//2 – second form of alternative		14
7.14.7 {}//1 – grammar body goal		14
7.14.8 call//1		15
7.14.9 phrase//1		15
7.14.10 !//0 – grammar body cut		15
7.14.11 (\+)//1 – grammar body not		15
7.14.12 (->)//2 – if-then		16
8 Built-in predicates		16
8.18 Grammar processing		16
8.18.1 phrase/3, phrase/2		16