

# H

## Syntax summary

### H.1 Overview

This appendix repeats the syntax specifications of the preceding chapters, in the order in which they were introduced.

→ *Appendix I gives the same information in alphabetical construct order.*

For each construct, the number at right indicates the page on which the syntactical specification originally appears in the text.

### H.2 Syntax

|                   |   |  |    |
|-------------------|---|--|----|
| Class_declaration | ≡ | [Indexing]<br>Class_header<br>[Formal_generics]<br>[Obsolete]<br>[Inheritance]<br>[Creators]<br>[Features]<br>[Invariant]<br>end ["--" class Class_name] | 46 |
|-------------------|---|--|----|

|              |   |                                |    |
|--------------|---|--------------------------------|----|
| Indexing     | ≡ | indexing Index_list            | 49 |
| Index_list   | ≡ | { Index_clause ";" ... }       |    |
| Index_clause | ≡ | [Index] Index_terms            |    |
| Index        | ≡ | Identifier ":"                 |    |
| Index_terms  | ≡ | { Index_value "," ... }*       |    |
| Index_value  | ≡ | Identifier   Manifest_constant |    |

|                          |   |  |    |
|--------------------------|---|--|----|
| Class_header             | ≙ | [Header_mark] class Class_name   | 50 |
| Header_mark              | ≙ | deferred   expanded  |    |
| Class_name               | ≙ | Identifier   |    |
| Obsolete                 | ≙ | obsolete Message   | 52 |
| Message                  | ≙ | Manifest_string  |    |
| Features                 | ≙ | feature {Feature_clause feature ...}+  | 60 |
| Feature_clause           | ≙ | [Clients]<br>[Header_comment]<br>Feature_declaration_list  |    |
| Feature_declaration_list | ≙ | {Feature_declaration ";" ...}  |    |
| Header_comment           | ≙ | Comment  |    |
| Feature_declaration      | ≙ | New_feature_list Declaration_body  | 63 |
| Declaration_body         | ≙ | [Formal_arguments]<br>[Type_mark]<br>[Constant_or_routine]   |    |
| Constant_or_routine      | ≙ | is Feature_value   |    |
| Feature_value            | ≙ | Manifest_constant   Unique   Routine   |    |
| New_feature_list         | ≙ | {New_feature "," ...}+   | 63 |
| New_feature              | ≙ | [frozen] Feature_name  |    |
| Feature_name             | ≙ | Identifier   Prefix   Infix  | 68 |
| Prefix                   | ≙ | prefix "" Prefix_operator ""   |    |
| Infix                    | ≙ | infix "" Infix_operator ""   |    |
| Prefix_operator          | ≙ | Unary   Free_operator  |    |
| Infix_operator           | ≙ | Binary   Free_operator   |    |
| Unary                    | ≙ | not   "+"   "-"  | 68 |
| Binary                   | ≙ | "+"   "-"   "*"   "/"  <br>"<"   ">"   "<="   ">="  <br>"//"   "\"   "^"  <br>and   or   xor  <br>and then   or else   implies |    |

|                          |   |  |     |
|--------------------------|---|--|-----|
| Inheritance              | ≙ | <b>inherit</b> Parent_list   | 77  |
| Parent_list              | ≙ | {Parent ";" ...}   |     |
| Parent                   | ≙ | Class_type [Feature_adaptation]  |     |
| Feature_adaptation       | ≙ | [Rename]<br>[New_exports]<br>[Undefine]<br>[Redefine]<br>[Select]<br>end   |     |
| Rename                   | ≙ | <b>rename</b> Rename_list  | 81  |
| Rename_list              | ≙ | {Rename_pair ";" ...}  |     |
| Rename_pair              | ≙ | Feature_name as Feature_name   |     |
| Clients                  | ≙ | "(" Class_list ")"   | 101 |
| Class_list               | ≙ | {Class_name ";" ...}   |     |
| New_exports              | ≙ | <b>export</b> New_export_list  | 101 |
| New_export_list          | ≙ | {New_export_item ";" ...}  |     |
| New_export_item          | ≙ | Clients Feature_set  |     |
| Feature_set              | ≙ | Feature_list   <b>all</b>  |     |
| Feature_list             | ≙ | {Feature_name ";" ...}   |     |
| Formal_arguments         | ≙ | "(" Entity_declaration_list ")"  | 109 |
| Entity_declaration_list  | ≙ | {Entity_declaration_group ";" ...}   |     |
| Entity_declaration_group | ≙ | Identifier_list Type_mark  |     |
| Identifier_list          | ≙ | {Identifier ";" ...} <sup>+</sup>  |     |
| Type_mark                | ≙ | ":" Type   |     |
| Routine                  | ≙ | [Obsolete]<br>[Header_comment]<br>[Precondition]<br>[Local_declarations]<br>Routine_body<br>[Postcondition]<br>[Rescue]<br>end {"--" Feature_name} | 112 |

|                            |   |  |     |
|----------------------------|---|--|-----|
| Routine_body               | ≙ | Effective   Deferred   | 113 |
| Effective                  | ≙ | Internal   External  |     |
| Internal                   | ≙ | Routine_mark Compound  |     |
| Routine_mark               | ≙ | do   once  |     |
| Deferred                   | ≙ | deferred   |     |
| Local_declarations         | ≙ | local Entity_declaration_list  | 114 |
| Instruction                | ≙ | Creation  <br>Call  <br>Assignment  <br>Reverse_assignment_attempt  <br>Conditional   Multi_branch   Loop  <br>Debug   Check   Retry | 116 |
| Precondition               | ≙ | require [else] Assertion   | 120 |
| Postcondition              | ≙ | ensure [then] Assertion  |     |
| Invariant                  | ≙ | invariant Assertion  |     |
| Assertion                  | ≙ | { Assertion_clause ";" ... }   |     |
| Assertion_clause           | ≙ | [Tag_mark]<br>Unlabeled_assertion_clause   |     |
| Unlabeled_assertion_clause | ≙ | Boolean_expression   Comment   |     |
| Tag_mark                   | ≙ | Tag ":"  |     |
| Tag                        | ≙ | Identifier   |     |
| Old                        | ≙ | old Expression   | 124 |
| Check                      | ≙ | check Assertion end  | 129 |
| Variant                    | ≙ | variant [Tag_mark] Integer_expression  | 130 |
| Redefine                   | ≙ | redefine Feature_list  | 159 |
| Undefine                   | ≙ | undefine Feature_list  | 160 |
| Select                     | ≙ | select Feature_list  | 191 |

|                     |   |  |     |
|---------------------|---|--|-----|
| Type                | ≙ | Class_type  <br>Class_type_expanded  <br>Formal_generic_name  <br>Anchored  <br>Bit_type | 197 |
| Class_type          | ≙ | Class_name [Actual_generics]   |     |
| Actual_generics     | ≙ | "[" Type_list "]"  |     |
| Type_list           | ≙ | {Type "," ...}   |     |
| Class_type_expanded | ≙ | expanded Class_type  |     |
| Bit_type            | ≙ | <i>BIT</i> Constant  |     |
| Anchored            | ≙ | like Anchor  |     |
| Anchor              | ≙ | Identifier   <i>Current</i>  |     |
| Formal_generics     | ≙ | "{" Formal_generic_list "]"  | 52  |
| Formal_generic_list | ≙ | {Formal_generic "," ...}   |     |
| Formal_generic      | ≙ | Formal_generic_name [Constraint]   |     |
| Formal_generic_name | ≙ | Identifier   |     |
| Constraint          | ≙ | "->" Class_type  |     |
| Compound            | ≙ | {Instruction ";" ...}  | 234 |
| Conditional         | ≙ | if Then_part_list [Else_part] end  | 235 |
| Then_part_list      | ≙ | {Then_part elseif ...} <sup>+</sup>  |     |
| Then_part           | ≙ | Boolean_expression then Compound   |     |
| Else_part           | ≙ | else Compound  |     |
| Multi_branch        | ≙ | inspect Expression<br>[When_part_list] [Else_part] end                                   | 239 |
| When_part_list      | ≙ | when {When_part when ...} <sup>+</sup>   |     |
| When_part           | ≙ | Choices then Compound  |     |
| Choices             | ≙ | {Choice "," ...}   |     |
| Choice              | ≙ | Constant   Interval  |     |
| Interval            | ≙ | Integer_interval   Character_interval  |     |
| Integer_interval    | ≙ | Integer_constant ".." Integer_constant   |     |
| Character_interval  | ≙ | Character_constant<br>".." Character_constant  |     |
| Loop                | ≙ | Initialization<br>[Invariant]<br>[Variant]<br>Loop_body<br>end                           | 243 |

|                            |   |  |     |
|----------------------------|---|--|-----|
| Initialization             | ≙ | <b>from</b> Compound   | 243 |
| Loop_body                  | ≙ | <b>Exit loop</b> Compound  |     |
| Exit                       | ≙ | <b>until</b> Boolean_expression  |     |
| Debug                      | ≙ | <b>debug</b> [Debug_keys] Compound <b>end</b>  | 245 |
| Debug_keys                 | ≙ | "(" Debug_key_list ")"   |     |
| Debug_key_list             | ≙ | {Debug_key ", " ...}   |     |
| Debug_key                  | ≙ | Manifest_string  |     |
| Rescue                     | ≙ | <b>rescue</b> Compound   | 256 |
| Retry                      | ≙ | <b>retry</b>   |     |
| Unique                     | ≙ | <b>unique</b>  | 265 |
| Entity                     | ≙ | Writable   Read_only   | 276 |
| Writable                   | ≙ | Attribute   Local  |     |
| Attribute                  | ≙ | Identifier   |     |
| Local                      | ≙ | Identifier   <i>Result</i>   |     |
| Read_only                  | ≙ | Formal   <i>Current</i>  |     |
| Formal                     | ≙ | Identifier   |     |
| Creators                   | ≙ | <b>creation</b>  | 285 |
| Creation_clause            | ≙ | {Creation_clause <b>creation</b> ...} <sup>+</sup><br>[Clients] [Header_comment]<br>Feature_list |     |
| Creation                   | ≙ | "!" [Type] "!" Writable [Creation_call]  | 285 |
| Creation_call              | ≙ | ". " Unqualified_call  |     |
| Assignment                 | ≙ | Writable "!=" Expression   | 311 |
| Reverse_assignment_attempt | ≙ | Writable "?=" Expression   | 332 |
| Call                       | ≙ | [Parenthesized_qualifier] Call_chain   | 342 |
| Parenthesized_qualifier    | ≙ | Parenthesized "."  |     |
| Call_chain                 | ≙ | {Unqualified_call "." ...} <sup>+</sup>  |     |
| Unqualified_call           | ≙ | Identifier [Actuals]   |     |

|                     |   |   |     |
|---------------------|---|---|-----|
| Actuals             | ≙ | "(" Actual_list ")"   | 342 |
| Actual_list         | ≙ | {Actual "," ...}  |     |
| Actual              | ≙ | Expression   Address  |     |
| Address             | ≙ | "\$" Identifier   |     |
| Expression          | ≙ | Call   Operator_expression   Equality   Constant   Local   Read_only   Manifest_array   Old   Strip       | 373 |
| Boolean_expression  | ≙ | Expression  |     |
| Equality            | ≙ | Expression Comparison Expression  | 374 |
| Comparison          | ≙ | "="   "/="  |     |
| Operator_expression | ≙ | Parenthesized { Unary_expression   Binary_expression  | 376 |
| Parenthesized       | ≙ | "(" Expression ")"  |     |
| Unary_expression    | ≙ | Unary Expression  |     |
| Binary_expression   | ≙ | Expression Binary Expression  |     |
| Constant            | = | Manifest_constant   Constant_attribute  | 387 |
| Constant_attribute  | = | Identifier  |     |
| Manifest_constant   | ≙ | Boolean_constant   Character_constant   Integer_constant   Real_constant   Manifest_string   Bit_constant | 387 |
| Sign                | ≙ | "+"   "-"   |     |
| Integer_constant    | ≙ | [Sign] Integer  |     |
| Character_constant  | ≙ | "" Character ""   |     |
| Boolean_constant    | ≙ | true   false  |     |
| Real_constant       | ≙ | [Sign] Real   |     |
| Manifest_string     | ≙ | "" Simple_string ""   |     |
| Bit_constant        | ≙ | Bit_sequence  |     |

|                 |   |                                       |     |
|-----------------|---|---------------------------------------|-----|
| Manifest_array  | ≙ | "<<" Expression_list ">>"             | 393 |
| Expression_list | ≙ | {Expression "," ...}                  |     |
| Strip           | ≙ | strip "(" Attribute_list ")"          | 397 |
| Attribute_list  | ≙ | {Identifier "," ...}                  |     |
| External        | ≙ | <b>external</b> Language_name         | 402 |
| Language_name   | ≙ | [External_name]                       |     |
| External_name   | ≙ | alias Manifest_string                 |     |
| Comment         | ≙ | "-" {Simple_string Comment_break ...} | 413 |
| Comment_break   | ≙ | New_line [Blanks_or_tabs] "-"         |     |

# I

## Syntax in alphabetical order

### I.1 Overview

This appendix gives the full syntax of Eiffel. For ease of reference, the constructs are given in alphabetical order.

For each construct, the number at right indicates the page on which the syntactical specification appears in the text.

← *Appendix H gives the same information in the order in which the constructs were introduced in this book.*

### I.2 Syntax

|                  |   |  |     |
|------------------|---|--|-----|
| Actual           | ≙ | Expression   Address   | 342 |
| Actual_generics  | ≙ | "[" Type_list "]"  | 197 |
| Actual_list      | ≙ | {Actual "," ...}   | 342 |
| Actuals          | ≙ | "(" Actual_list ")"  | 342 |
| Address          | ≙ | "\$" Identifier  | 342 |
| Anchor           | ≙ | Identifier   <i>Current</i>  | 197 |
| Anchored         | ≙ | like Anchor  | 197 |
| Assertion        | ≙ | {Assertion_clause ";" ...}   | 120 |
| Assertion_clause | ≙ | [Tag_mark]<br>Unlabeled_assertion_clause   | 120 |
| Assignment       | ≙ | Writable "!=" Expression   | 311 |
| Attribute        | ≙ | Identifier   | 276 |
| Attribute_list   | ≙ | {Identifier "," ...}   | 397 |
| Binary           | ≙ | "+"   "-"   "*"   "/"  <br>"<"   ">"   "<="   ">="  <br>"//"   "\\\"   "^"  <br>and   or   xor  <br>and then   or else   implies | 68  |

|                     |   |   |     |
|---------------------|---|---|-----|
| Binary_expression   | △ | Expression Binary Expression  | 376 |
| Bit_constant        | △ | Bit_sequence  | 387 |
| Bit_type            | △ | <i>BIT</i> Constant   | 197 |
| Boolean_constant    | △ | true   false  | 387 |
| Boolean_expression  | △ | Expression  | 373 |
| Call                | △ | [Parenthesized_qualifier] Call_chain  | 342 |
| Call_chain          | △ | {Unqualified_call "." ...} <sup>+</sup>   | 342 |
| Character_constant  | △ | "" Character ""   | 387 |
| Character_interval  | △ | Character_constant<br>".." Character_constant   | 239 |
| Check               | △ | check Assertion end   | 129 |
| Choice              | △ | Constant   Interval   | 239 |
| Choices             | △ | {Choice "," ...}  | 239 |
| Class_declaration   | △ | [Indexing]<br>Class_header<br>[Formal_generics]<br>[Obsolete]<br>[Inheritance]<br>[Creators]<br>[Features]<br>[Invariant]<br>end ["-" class Class_name] | 46  |
| Class_header        | △ | [Header_mark] class Class_name  | 50  |
| Class_list          | △ | {Class_name "," ...}  | 101 |
| Class_name          | △ | Identifier  | 50  |
| Class_type          | △ | Class_name [Actual_generics]  | 197 |
| Class_type_expanded | △ | expanded Class_type   | 197 |
| Clients             | △ | "(" Class_list ")"  | 101 |
| Comment             | △ | "-" (Simple_string Comment_break ...)   | 413 |
| Comment_break       | △ | New_line [Blanks_or_tabs] "-"   | 413 |
| Comparison          | △ | "="   "/="  | 374 |
| Compound            | △ | {Instruction ";" ...}   | 234 |
| Conditional         | △ | if Then_part_list [Else_part] end   | 235 |
| Constant            | = | Manifest_constant   Constant_attribute  | 387 |
| Constant_attribute  | = | Identifier  | 387 |
| Constant_or_routine | △ | is Feature_value  | 63  |
| Constraint          | △ | "->" Class_type   | 52  |
| Creation            | △ | !" [Type] !" Writable [Creation_call]   | 285 |
| Creation_call       | △ | "." Unqualified_call  | 285 |
| Creation_clause     | △ | [Clients] [Header_comment]<br>Feature_list  | 285 |
| Creators            | △ | creation<br>{Creation_clause creation ...} <sup>+</sup>   | 285 |
| Debug               | △ | debug [Debug_keys] Compound end   | 245 |
| Debug_key           | △ | Manifest_string   | 245 |
| Debug_key_list      | △ | {Debug_key "," ...}   | 245 |
| Debug_keys          | △ | "(" Debug_key_list ")"  | 245 |

|                          |   |   |     |
|--------------------------|---|---|-----|
| Declaration_body         | ≙ | [Formal_arguments]<br>[Type_mark]<br>[Constant_or_routine]  | 63  |
| Deferred                 | ≙ | <b>deferred</b>   | 113 |
| Effective                | ≙ | Internal   External   | 113 |
| Else_part                | ≙ | <b>else</b> Compound  | 235 |
| Entity                   | ≙ | Writable   Read_only  | 276 |
| Entity_declaration_group | ≙ | Identifier_list Type_mark   | 109 |
| Entity_declaration_list  | ≙ | {Entity_declaration_group ";" ...}  | 109 |
| Equality                 | ≙ | Expression Comparison Expression  | 374 |
| Exit                     | ≙ | <b>until</b> Boolean_expression   | 243 |
| Expression               | ≙ | Call   Operator_expression   Equality  <br>Constant   Local   Read_only  <br>Manifest_array   Old   Strip | 373 |
| Expression_list          | ≙ | {Expression "," ...}  | 393 |
| External                 | ≙ | <b>external</b> Language_name<br>[External_name]  | 402 |
| External_name            | ≙ | <b>alias</b> Manifest_string  | 402 |
| Feature_adaptation       | ≙ | [Rename]<br>[New_exports]<br>[Undefine]<br>[Redefine]<br>[Select]<br><b>end</b>                           | 77  |
| Feature_clause           | ≙ | [Clients]<br>[Header_comment]<br>Feature_declaration_list   | 60  |
| Feature_declaration      | ≙ | New_feature_list Declaration_body   | 63  |
| Feature_declaration_list | ≙ | {Feature_declaration ";" ...}   | 60  |
| Feature_list             | ≙ | {Feature_name "," ...}  | 101 |
| Feature_name             | ≙ | Identifier   Prefix   Infix   | 68  |
| Feature_set              | ≙ | Feature_list   <b>all</b>   | 101 |
| Feature_value            | ≙ | Manifest_constant   Unique   Routine  | 63  |
| Features                 | ≙ | <b>feature</b> {Feature_clause feature ...} <sup>+</sup>  | 60  |
| Formal                   | ≙ | Identifier  | 276 |
| Formal_arguments         | ≙ | "(" Entity_declaration_list ")"   | 109 |
| Formal_generic           | ≙ | Formal_generic_name {Constraint}  | 52  |
| Formal_generic_list      | ≙ | {Formal_generic "," ...}  | 52  |
| Formal_generic_name      | ≙ | Identifier  | 52  |
| Formal_generics          | ≙ | "{" Formal_generic_list "]"   | 52  |
| Header_comment           | ≙ | Comment   | 60  |
| Header_mark              | ≙ | <b>deferred</b>   <b>expanded</b>   | 50  |
| Identifier_list          | ≙ | {Identifier "," ...} <sup>+</sup>   | 109 |
| Index                    | ≙ | Identifier ":"  | 49  |
| Index_clause             | ≙ | [Index] Index_terms   | 49  |
| Index_list               | ≙ | {Index_clause ";" ...}  | 49  |
| Index_terms              | ≙ | {Index_value "," ...} <sup>+</sup>  | 49  |
| Index_value              | ≙ | Identifier   Manifest_constant  | 49  |

|                         |   |  |     |
|-------------------------|---|--|-----|
| Indexing                | △ | <b>indexing</b> Index_list   | 49  |
| Infix                   | △ | <b>infix</b> "" Infix_operator ""  | 68  |
| Infix_operator          | △ | Binary   Free_operator   | 68  |
| Inheritance             | △ | <b>inherit</b> Parent_list   | 77  |
| Initialization          | △ | <b>from</b> Compound   | 243 |
| Instruction             | △ | Creation  <br>Call  <br>Assignment  <br>Reverse_assignment_attempt  <br>Conditional   Multi_branch   Loop  <br>Debug   Check   Retry | 116 |
| Integer_constant        | △ | [Sign] Integer   | 387 |
| Integer_interval        | △ | Integer_constant ".." Integer_constant   | 239 |
| Internal                | △ | Routine_mark Compound  | 113 |
| Interval                | △ | Integer_interval   Character_interval  | 239 |
| Invariant               | △ | <b>invariant</b> Assertion   | 120 |
| Language_name           | △ | <b>Manifest_string</b>   | 402 |
| Local                   | △ | Identifier   <i>Result</i>   | 276 |
| Local_declarations      | △ | <b>local</b> Entry_declaration_list  | 114 |
| Loop                    | △ | Initialization<br>[Invariant]<br>[Variant]<br>Loop_body<br><b>end</b>  | 243 |
| Loop_body               | △ | <b>Exit loop</b> Compound  | 243 |
| Manifest_array          | △ | "<<" Expression_list ">>"  | 393 |
| Manifest_constant       | △ | Boolean_constant  <br>Character_constant  <br>Integer_constant   Real_constant  <br>Manifest_string   Bit_constant                   | 387 |
| Manifest_string         | △ | "" Simple_string ""  | 387 |
| Message                 | △ | <b>Manifest_string</b>   | 52  |
| Multi_branch            | △ | <b>inspect</b> Expression<br>[When_part_list] [Else_part] <b>end</b>   | 239 |
| New_export_item         | △ | Clients Feature_set  | 101 |
| New_export_list         | △ | {New_export_item ";" ...}  | 101 |
| New_exports             | △ | <b>export</b> New_export_list  | 101 |
| New_feature             | △ | [frozen] Feature_name  | 63  |
| New_feature_list        | △ | {New_feature ";" ...}*   | 63  |
| Obsolete                | △ | <b>obsolete</b> Message  | 52  |
| Old                     | △ | <b>old</b> Expression  | 124 |
| Operator_expression     | △ | Parenthesized  <br>Unary_expression   Binary_expression  | 376 |
| Parent                  | △ | Class_type [Feature_adaptation]  | 77  |
| Parent_list             | △ | {Parent ";" ...}   | 77  |
| Parenthesized           | △ | "(" Expression ")"   | 376 |
| Parenthesized_qualifier | △ | Parenthesized "."  | 342 |
| Postcondition           | △ | <b>ensure</b> [then] Assertion   | 120 |

|                            |   |   |     |
|----------------------------|---|---|-----|
| Precondition               | △ | <b>require</b> [else] Assertion   | 120 |
| Prefix                     | △ | <b>prefix</b> "" Prefix_operator ""   | 68  |
| Prefix_operator            | △ | Unary   Free_operator   | 68  |
| Read_only                  | △ | Formal   <i>Current</i>   | 276 |
| Real_constant              | △ | [Sign] Real   | 387 |
| Redefine                   | △ | <b>redefine</b> Feature_list  | 159 |
| Rename                     | △ | <b>rename</b> Rename_list   | 81  |
| Rename_list                | △ | {Rename_pair ", " ...}  | 81  |
| Rename_pair                | △ | Feature_name as Feature_name  | 81  |
| Rescue                     | △ | <b>rescue</b> Compound  | 256 |
| Retry                      | △ | <b>retry</b>  | 256 |
| Reverse_assignment_attempt | △ | Writable "?=" Expression  | 332 |
| Routine                    | △ | [Obsolete]<br>[Header_comment]<br>[Precondition]<br>[Local_declarations]<br>Routine_body<br>[Postcondition]<br>[Rescue]<br><b>end</b> ["--" Feature_name] | 112 |
| Routine_body               | △ | Effective   Deferred  | 113 |
| Routine_mark               | △ | <b>do</b>   <b>once</b>   | 113 |
| Select                     | △ | <b>select</b> Feature_list  | 191 |
| Sign                       | △ | "+"   "-"   | 387 |
| Strip                      | △ | <b>strip</b> "(" Attribute_list ")"   | 397 |
| Tag                        | △ | Identifier  | 120 |
| Tag_mark                   | △ | Tag ":"   | 120 |
| Then_part                  | △ | Boolean_expression <b>then</b> Compound   | 235 |
| Then_part_list             | △ | {Then_part <b>elseif</b> ...}*  | 235 |
| Type                       | △ | Class_type  <br>Class_type_expanded  <br>Formal_generic_name  <br>Anchored  <br>Bit_type  | 197 |
| Type_list                  | △ | {Type ", " ...}   | 109 |
| Type_mark                  | △ | ":" Type  | 68  |
| Unary                      | △ | <b>not</b>   "+"   "-"  | 376 |
| Unary_expression           | △ | Unary Expression  | 160 |
| Undefine                   | △ | <b>undefine</b> Feature_list  | 265 |
| Unique                     | △ | <b>unique</b>   | 120 |
| Unlabeled_assertion_clause | △ | Boolean_expression   Comment  | 342 |
| Unqualified_call           | △ | Identifier [Actuals]  | 130 |
| Variant                    | △ | <b>variant</b> [Tag_mark] Integer_expression  | 239 |
| When_part                  | △ | Choices <b>then</b> Compound  | 239 |
| When_part_list             | △ | <b>when</b> {When_part <b>when</b> ...}*  | 276 |
| Writable                   | △ | Attribute   Local   |     |