Revised Summary of Syntax Changes — 29 September 1997

type_definition ::= ...
    | derived_type_definition

derived_type_definition ::= [ abstract ] new parent_subtype_indication [ record_extension_part ]

record_type_definition ::= [ abstract ] tagged [ limited ] record_definition

record_definition ::= record
    element_declaration
    { element_declaration } end record [ record_type_simple_name ]
    | null record

record_extension_part ::= with record_definition

abstract_subprogram_declaration ::= subprogram_specification is abstract ;

subprogram_declaration ::= subprogram_specification [ is abstract ] ;

name ::= ...
    | type_conversion

type_conversion ::= type_mark ( expression )
    | type_mark ( name )

aggregate ::= record_aggregate | extension_aggregate | array_aggregate

record_aggregate ::= ( record_element_association_list )

record_element_association_list ::= element_association_list
    | null record

extension_aggregate ::= ( ancestor_part with record_element_association_list )

ancestor_part ::= expression | type_mark

array_aggregate ::= ( element_association_list )

element_association_list ::= element_association { , element_association }

decartment_declarative_item ::= ...
    | package_declaration
    | package_body_declaration
    | generic_subprogram_instantiation
    | generic_package_instantiation
block_declarative_item ::= 
   . . .
   | package_declaration
   | package_body_declaration
   | generic_subprogram_instantiation
   | generic_package_instantiation

process_declarative_item ::= 
   . . .
   | package_declaration
   | package_body_declaration
   | generic_subprogram_instantiation
   | generic_package_instantiation

subprogram_declarative_item ::= 
   . . .
   | package_declaration
   | package_body_declaration
   | generic_subprogram_instantiation
   | generic_package_instantiation

package_declarative_item ::= 
   . . .
   | package_declaration
   | generic_subprogram_instantiation
   | generic_package_instantiation

package_body_declarative_item ::= 
   . . .
   | package_declaration
   | generic_subprogram_instantiation
   | generic_package_instantiation

primary_unit ::= 
   . . .
   | generic_package_instantiation

package_declaration ::= 
   package identifier is 
      [ formal_generic_clause ]
      package_declarative_part
      [ private
         package_private_declarative_part ]
   end [ package ] [ package_simple_name ];

package_private_declarative_part ::= { package_private_declarative_item }

package_private_declarative_item ::= 
   subprogram_declaration_declarative_item
type declaration ::= 
| private_type_declaration 
| private_type_extension 
private_type_declaration ::= 
  type identifier is [ [abstract ] tagged ][ limited ][ access ] private ; 
private_extension_declaration ::= 
  type identifier is [abstract ] new ancestor_subtype_indication with [ access ] private ; 
package_declaration ::= 
  package identifier is 
    [ formal_generic_clause ] 
  package_declarative_part 
  [ private 
    package_private_declarative_part ] 
end [ package ] [ package_simple_name ] ; 
subprogram specification ::= 
  procedure designator 
    [ generic ( generic_list ) ] [ ( formal_parameter_list ) ] 
  [ [ pure | impure ] function designator 
    [ generic ( generic_list ) ] [ ( formal_parameter_list ) ] return type_mark 
generic_subprogram_instantiation ::= 
  [ -subprogram_kind ] designator is new generic_subprogram_name 
    [ generic_map_aspect ] ; 
generic_package_instantiation ::= 
  package identifier is new generic_package_name 
    [ generic_map_aspect ] ; 
actual_designator ::= 
  ...
interface_declaration ::= 
  . . .    
  | interface_type_declaration 
  | interface_subprogram_declaration 
  | interface_package_declaration

interface_type_declaration ::=    
  type identifier is interface_type_definition;

interface_type_definition ::=    
  interface_private_type_definition 
  | interface_derived_type_definition 
  | interface_discrete_type_definition 
  | interface_integer_type_definition 
  | interface_physical_type_definition 
  | interface_floating_type_definition 
  | interface_array_type_definition 
  | interface_access_type_definition 
  | interface_file_type_definition

interface_private_type_definition ::= [ [ abstract ] tagged ] [ limited ] [ access ] private

interface_derived_type_definition ::= [ abstract ] new type_mark [ with [ access ] private ]

interface_discrete_type_definition ::= ( <> )

interface_integer_type_definition ::= range <>

interface_physical_type_definition ::= units <>

interface_floating_type_definition ::= range <> . <>

interface_array_type_definition ::= array_type_definition

interface_access_type_definition ::= access_type_definition

interface_file_type_definition ::= file_type_definition

interface_subprogram_declaration ::=    
  subprogram_specification [ is subprogram_default ]

subprogram_default ::= name | <>

interface_package_declaration ::=    
  package identifier is new generic_package_name interface_package_actual_part;

interface_package_actual_part ::=    
  generic map ( <> )
  | [ [ generic_map_aspect ]}