Ada

Checks

Check ID	Check Name	Supported
AC_00	No Control Code Characters	Yes
AC_01	No Direct or Indirect Recursion	Yes
AC_HIS_02	Number of Paths (PATH)	Yes
AC_HIS_04	Cyclomatic Complexity (v(G))	Yes
AC_HIS_05	Calling Functions (CALLING)	Yes
AC_HIS_06	Called Functions (CALLS)	Yes
AC_HIS_07	Function Parameters (PARAM)	Yes
AC_HIS_08	Number of Statements (STMT)	Yes
AC_HIS_09	Number of call levels (LEVEL)	Yes
AC_HIS_11	Language scope (VOCF)	Yes
AC_HIS_12	Recursion (AP_CG_CYCLE)	Yes
AC_HIS_13	Statements Changed (SCHG)	Yes
AC_HIS_14	Statements Deleted (SDEL)	Yes
AC_HIS_15	New Statements (SNEW)	Yes
AC_HIS_16	Stability Index (S)	Yes
ADA_N000	Naming Convention: Components	Yes
ADA_N001	Naming Convention: Entries	Yes
ADA_N002	Naming Convention: Enumerations	Yes
ADA_N003	Naming Convention: Exceptions	Yes
ADA_N004	Naming Convention: Files	Yes
ADA_N005	Naming Convention: Functions	Yes
ADA_N006	Naming Convention: Implicits	Yes
ADA_N007	Naming Convention: Objects	Yes
ADA_N008	Naming Convention: Packages	Yes
ADA_N009	Naming Convention: Parameters	Yes
ADA_N010	Naming Convention: Procedures	Yes
ADA_N011	Naming Convention: Protected Entities	Yes
ADA_N012	Naming Convention: Tasks	Yes
ADA_N013	Naming Convention: Types	Yes
ADA_V000	Unused Variables	Yes
ADA_V001	Variables should be commented	Yes
ADA_V002	Magic Numbers	Yes
ADA95_2.1.1	2.1.1 Horizontal Spacing	Yes
ADA95_2.1.2	2.1.2 Indentation	Yes
ADA95_2.1.3	2.1.3 Alignment of Operators	No
ADA95_2.1.4	2.1.4 Alignment of Declarations	No

Check ID	Check Name	Supported
ADA95_2.1.5	2.1.5 Parameter Alignment	Yes
ADA95_2.1.6	2.1.6 Blank Lines	No
ADA95_2.1.7	2.1.7 Pagination	Yes
ADA95_2.1.8	2.1.8 Number of Statements Per Line	Yes
ADA95_2.1.9	2.1.9 Source Code Line Length	Yes
ADA95_3.1.1	3.1.1 Use of Underscores	Yes
ADA95_3.1.2	3.1.2 Numbers	Yes
ADA95_3.1.3	3.1.3 Capitalization	Yes
ADA95_3.1.4	3.1.4 Abbreviations	No
ADA95_3.2.1	3.2.1 Names	Yes
ADA95_3.2.2	3.2.2 Subtype Names	Yes
ADA95_3.2.3	3.2.3 Object Names	No
ADA95_3.2.4	3.2.4 Naming of Tagged Types and Associated Packages	No
ADA95_3.2.5	3.2.5 Program Unit Names	Yes
ADA95_3.2.6	3.2.6 Constants and Named Numbers	Yes
ADA95_3.2.7	3.2.7 Exceptions	No
ADA95_3.2.8	3.2.8 Constructors	No
ADA95_3.3.1	3.3.1 General Comments	No
ADA95_3.3.2	3.3.2 File Headers	Yes
ADA95_3.3.3	3.3.3 Program Unit Specification Headers	Yes
ADA95_3.3.4	3.3.4 Program Unit Body Headers	Yes
ADA95_3.3.5	3.3.5 Data Comments	No
ADA95_3.3.6	3.3.6 Statement Comments	No
ADA95_3.3.7	3.3.7 Marker Comments	Yes
ADA95_3.4.1	3.4.1 Declaring Types	No
ADA95_3.4.2	3.4.2 Enumeration Types	No
ADA95_4.1.1	4.1.1 Separate Compilation Capabilities	Yes
ADA95_4.1.2	4.1.2 Configuration Pragmas	Yes
ADA95_4.1.3	4.1.3 Subprograms	No
ADA95_4.1.4	4.1.4 Functions	No
ADA95_4.1.5	4.1.5 Packages	No
ADA95_4.1.6	4.1.6 Child Library Units	No
ADA95_4.1.7	4.1.7 Cohesion	No
ADA95_4.1.8	4.1.8 Data Coupling	Yes
ADA95_4.1.9	4.1.9 Tasks	No
ADA95_4.1.10	4.1.10 Protected Types	No
ADA95_4.2.1	4.2.1 Minimization of Interfaces	No
ADA95_4.2.2	4.2.2 Nested Packages	No

Check ID	Check Name	Supported
ADA95_4.2.3	4.2.3 Restricting Visibility	Yes
ADA95_4.2.4	4.2.4 Hiding Tasks	No
ADA95_4.3.1	4.3.1 Using Exceptions to Help Define an Abstraction	Yes
ADA95_5.1.1	5.1.1 Loop Names	Yes
ADA95_5.1.2	5.1.2 Block Names	Yes
ADA95_5.1.3	5.1.3 Exit Statements	Yes
ADA95_5.1.4	5.1.4 Naming End Statements	Yes
ADA95_5.2.1	5.2.1 Formal Parameters	No
ADA95_5.2.2	5.2.2 Named Association	Yes
ADA95_5.2.3	5.2.3 Default Parameters	Yes
ADA95_5.2.4	5.2.4 Mode Indication	Yes
ADA95_5.3.1	5.3.1 Derived Types and Subtypes	Yes
ADA95_5.3.2	5.3.2 Anonymous Types	Yes
ADA95_5.3.3	5.3.3 Private Types	Yes
ADA95_5.3.4	5.3.4 Subprogram Access Types	No
ADA95_5.4.1	5.4.1 Discriminated Records	Yes
ADA95_5.4.2	5.4.2 Heterogeneous Related Data	No
ADA95_5.4.3	5.4.3 Heterogeneous Polymorphic Data	No
ADA95_5.4.4	5.4.4 Nested Records	No
ADA95_5.4.5	5.4.5 Dynamic Data	Yes
ADA95_5.4.6	5.4.6 Aliased Objects	Yes
ADA95_5.4.7	5.4.7 Access Discriminants	No
ADA95_5.4.8	5.4.8 Modular Types	No
ADA95_5.5.1	5.5.1 Range Values	Yes
ADA95_5.5.2	5.5.2 Array Attributes	No
ADA95_5.5.3	5.5.3 Parenthetical Expressions	No
ADA95_5.5.4	5.5.4 Positive Forms of Logic	No
ADA95_5.5.5	5.5.5 Short Circuit Forms of the Logical Operators	No
ADA95_5.5.6	5.5.6 Accuracy of Operations With Real Operands	Yes
ADA95_5.6.1	5.6.1 Nesting	Yes
ADA95_5.6.2	5.6.2 Slices	No
ADA95_5.6.3	5.6.3 Case Statements	Yes
ADA95_5.6.4	5.6.4 Loops	Yes
ADA95_5.6.5	5.6.5 Exit Statements	Yes
ADA95_5.6.6	5.6.6 Recursion and Iteration Bounds	No
ADA95_5.6.7	5.6.7 Goto Statements	Yes
ADA95_5.6.8	5.6.8 Return Statements	Yes
ADA95_5.6.9	5.6.9 Blocks	No

Check ID	Check Name	Supported
ADA95_5.6.10	5.6.10 Aggregates	No
ADA95_5.7.1	5.7.1 The Use Clause	Yes
ADA95_5.7.2	5.7.2 The Renames Clause	Yes
ADA95_5.7.3	5.7.3 Overloaded Subprograms	Yes
ADA95_5.7.4	5.7.4 Overloaded Operators	No
ADA95_5.7.5	5.7.5 Overloading the Equality Operator	Yes
ADA95_5.8.1	5.8.1 Handling Versus Avoiding Exceptions	No
ADA95_5.8.2	5.8.2 Handlers for Others	Yes
ADA95_5.8.3	5.8.3 Propagation	Yes
ADA95_5.8.4	5.8.4 Localizing the Cause of an Exception	Yes
ADA95_5.9.1	5.9.1 Unchecked Conversion	Yes
ADA95_5.9.2	5.9.2 Unchecked Deallocation	Yes
ADA95_5.9.3	5.9.3 Unchecked Access	Yes
ADA95_5.9.4	5.9.4 Address Clauses	Yes
ADA95_5.9.5	5.9.5 Suppression of Exception Check	Yes
ADA95_5.9.6	5.9.6 Initialization	Yes
ADA95_5.9.7	5.9.7 Direct_IO and Sequential_IO	Yes
ADA95_5.9.8	5.9.8 Exception Propagation	Yes
ADA95_5.9.9	5.9.9 Protected Objects	Yes
ADA95_5.9.10	5.9.10 Abort Statement	Yes
ADA95_6.1.1	6.1.1 Protected Objects	Yes
ADA95_6.1.2	6.1.2 Tasks	No
ADA95_6.1.3	6.1.3 Discriminants	No
ADA95_6.1.4	6.1.4 Anonymous Task Types and Protected Types	No
ADA95_6.1.5	6.1.5 Dynamic Tasks	No
ADA95_6.1.6	6.1.6 Priorities	No
ADA95_6.1.7	6.1.7 Delay Statements	No
ADA95_6.1.8	6.1.8 Extensibility and Concurrent Structures	No
ADA95_6.2.1	6.2.1 Efficient Task Communication	No
ADA95_6.2.2	6.2.2 Defensive Task Communication	Yes
ADA95_6.2.3	6.2.3 Attributes 'Count, 'Callable, and 'Terminated	Yes
ADA95_6.2.4	6.2.4 Unprotected Shared Variables	Yes
ADA95_6.2.5	6.2.5 Selective Accepts and Entry Calls	Yes
CWE-77	Improper Neutralization of Special Elements used in a Command ('Command Injection')	Yes
CWE-78	Improper Neutralization of Special Elements used in an OS Command ('Command Injection')	Yes
HIS_01	1. Comment Density (COMF)	Yes
HIS_02	2. Number of Paths (PATH)	Yes

Check ID	Check Name	Supported
HIS_03	3. Number of Goto Statements(GOTO)	Yes
HIS_04	4. Cyclomatic Complexity (v(G))	Yes
HIS_05	5. Calling Functions (CALLING)	Yes
HIS_06	6. Called Functions (CALLS)	Yes
HIS_07	7. Function Parameters (PARAM)	Yes
HIS_08	8. Number of Statements (STMT)	Yes
HIS_09	9. Number of call levels (LEVEL)	Yes
HIS_11	11. Language scope (VOCF)	Yes
HIS_12	12. Recursion (AP_CG_CYCLE)	Yes
HIS_13	13. Statements Changed (SCHG)	Yes
HIS_14	14. Statements Deleted (SDEL)	Yes
HIS_15	15. New Statements (SNEW)	Yes
HIS_16	16. Stability Index (S)	Yes
METRIC_00	Program Unit Call Count	Yes
METRIC_01	Program Unit Callby Count	Yes
METRIC_02	Program Unit Comment to Code Ratio	Yes
METRIC_03	Program Unit Cyclomatic Complexity	Yes
METRIC_04	Program Unit Max Length	Yes
METRIC_05	Program Unit Max Nesting Depth	Yes
METRIC_06	Program Unit Parameters Count	Yes
METRIC_07	Program Unit Path Count	Yes
METRIC_08	Program Unit Statement Count	Yes
METRIC_09	Coupling Between Object Classes	Yes
METRIC_10	Coupled Packages	Yes
METRIC_13	Maintainability Index	Yes
RECOMMENDED_02	Files too long	Yes
RECOMMENDED_04	Functions Too Long	Yes
RECOMMENDED_06	Goto Statements	Yes
RECOMMENDED_10	Overly Complex Functions	Yes
RECOMMENDED_12	Unreachable Code	Yes
RECOMMENDED_13	Unused Functions	Yes
RECOMMENDED_16	Variables should be commented	Yes
RECOMMENDED_18	Unused Local Variables	Yes
RECOMMENDED_19	Comments Indicating Future Fixes	Yes
RECOMMENDED_20	Duplicate Code	Yes