

The Birds Project

The libBirds Library, Software Design Standards

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1. Purpose of the SDS Document

This is a standard "Software Design Standards" document, corresponding to the guidelines in RTCA DO-178B. In the words of DO-178B, it defines "the methods, rules and tools to be used to develop the software architecture and low-level requirements."

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2. Design-Description Methods

TBD

3. Naming conventions

TBD

4. Conditions Imposed on Permitted Design Methods

4.1. Scheduling

TBD

4.2. Interrupts and Event-Driven Architectures

TBD

4.3. Dynamic Tasking

TBD

4.4. Re-entry

TBD

4.5. Global Data

TBD

4.6. Exception Handling

TBD

4.7. TBD Name of other condition

TBD

5. Constraints on the Use of Design Tools

TBD

6. Constraints on Design

6.1. Exclusion of Recursion

TBD

6.2. Dynamic Objects

TBD

6.3. Data Aliases

TBD

6.4. Compacted Expressions

TBD

6.5. TBD Name of other constraint

TBD

7. Complexity Restrictions

7.1. Maximum Depth of Calls or Structures

TBD

7.2. Unconditional Branches

TBD

7.3. Number of Entry/Exit Points

TBD

7.4. TBD Name of other restriction

TBD

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