Reserving Attribute Namespaces for Future Use

Target

C++23

Revisions

- R1: Improve wording, reserve stdN as per EWG guidance.

Abstract

The standard does not reserve names for future attributes, such that standardizing attributes might affect users negatively or prevent the committee to use the most appropriate names in an attempt to avoid naming conflicts. This paper proposes to reserve attributes with no namespace as well as the std namespace.

Proposed Wording

Attributes

Attribute syntax and semantics

For an attribute-token (including an attribute-scoped-token) not specified in this document, the behavior is implementation-defined. Any attribute-token that is not recognized by the implementation is ignored.

An attribute-token that is not an attribute-scoped-token and an attribute-namespace whose name is either std or std followed by one or more digits is reserved for future standardization.

[Note: Each implementation should choose a distinctive name for the attribute-namespace in an attribute-scoped-token. — end note]
References

[N4830] Richard Smith *Working Draft, Standard for Programming Language C++*
https://wg21.link/n4830