

Reserving Attribute Namespaces for Future Use

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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** [dcl.attr]

◆ **Attribute syntax and semantics** [dcl.attr.grammar]

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>