Reserving Attribute Namespaces for Future Use

Document #:	P1908R0
Date:	2019-10-06
Project:	Programming Language C++
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Target

C++23

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.

attribute-token that are not *attribute-scoped-token* and the `std` *attribute-namespace* are reserved.

[*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