Subject: Generalization of generic interface blocks
From: Van Snyder

Number

TBD

Title

Generalization of generic interface blocks.

Submitted By

J3

Status

For consideration.

Basic Functionality

Remove the restriction that generic interfaces are prohibited to have both functions and subroutines.

Rationale

The restriction against generic interfaces having both functions and subroutines appears to serve no purpose. Removing it could provide useful functionality, would simplify the standard, and may simplify processors.

Estimated Impact

Trivial for the standard, small to trivial for implementations, depending on how they presently work. For those processors that check that a *function-reference* refers to a function (C1220), or a *call-stmt* refers to a subroutine (C1222), *after* generic resolution, the only change may be to remove a check for a condition that's easier to handle than to prohibit. Those that put a flag in a generic interface to indicate whether it's all functions or all subroutines will need to work the other way.

Detailed Specification

[Add "or shall be a generic name that resolves (12.4.4.1) to a function" after "function". This edit is probably useful in any case.] 266:16

[Add "or shall be a generic name that resolves (12.4.4.1) to a subroutine" after "subroutine". This edit is probably useful in any case.] 266:19

Within a scoping unit, if two procedures have the same generic identifier 408:2-3

[Replace "is" by "shall be". This edit is probably useful in any case.] 408:4

[Delete "Within … subroutines."] 408:24-26

History