Subject: Allow a GENERIC statement as an alternative to an interface block
From: Van Snyder
Reference: 03-258r1, section 2.4.5

Number

TBD

Title

Allow a GENERIC statement as an alternative to an interface block.

Submitted By

J3

Status

For consideration.

Basic Functionality

Allow a GENERIC statement as an alternative to an interface block.

Rationale

One can use a GENERIC statement within a type definition to declare a generic collection of specific procedures. One cannot, however, use such a statement outwith a type definition. The GENERIC statement is simpler than an interface block full of [MODULE] PROCEDURE statements. Students will find the irregularity and assymetry to be confusing.

Estimated Impact

Minor. Copy the discussion of the GENERIC statement from Section 4 to Section 12, mutatis mutandis.

Detailed Specification

Allow one to use a GENERIC statement of the same form as the one permitted in a type definition, in any specification part. The form of the GENERIC statement would be

GENERIC [, *access-spec*] :: *generic-spec* => *procedure-name-list*

which would be equivalent to

INTERFACE *generic-spec*
MODULE PROCEDURE *procedure-name-list*
END INTERFACE [*generic-spec*]

History