Subject: Allow a USE statement inside of a type definition
From: Van Snyder
Reference: 03-258r1, section 2.14.4

Number

TBD

Title

Allow a USE statement inside of a type definition.

Submitted By

J3

Status

For consideration.

Basic Functionality

Allow a USE statement inside of a type definition.

Rationale

One occasionally needs to reference something gotten by use association from inside of a type definition. In Fortran 95 the only possibility is a named constant, but in Fortran 2003 it will also make sense to want to access procedures. If the type definition is at module scope, then the USE is too. When processing module information, many processors read the module information for any USEs encountered at module scope, instead of putting that information in the using module's module information file (which would have the potential to cause enormous module information files). But they don't usually read module information for modules accessed by USE statements that aren't at module scope. So if we could put a USE statement inside of the type definition, we could potentially speed up some compiles.

Estimated Impact

Minor.

Detailed Specification

Allow a USE statement inside of a type definition.

History