Subject: Allow a fixed-extent array as a bounds specification
From: Van Snyder
Reference: 03-258r1, section 2.9.2.1

Number

TBD

Title

Allow a fixed-extent array as a bounds specification.

Submitted By

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Status

For consideration.

Basic Functionality

Allow a fixed-extent array as a bounds specification.

Rationale

Suppose one has a dummy array D and one needs an automatic array A with the same rank and extents as D. It would be convenient to be able to write `integer A(shape(D))` instead of `integer A(size(D,1),size(D,2),...)`.

Estimated Impact

Minor.

Detailed Specification

Allow the bounds of an array to be given by a rank-1 array, both in the declaration of an explicit-shape array and in an ALLOCATE statement. If both bounds are specified, and at least one is given by an array, the other bound has to be given by a conformable expression.

History