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

1 Number

2 TBD

3 Title

4 Allow a fixed-extent array as a bounds specification.

5 Submitted By

6 J3

7 Status

8 For consideration.

9 Basic Functionality

10 Allow a fixed-extent array as a bounds specification.

11 Rationale

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

15 Estimated Impact

16 Minor.

17 Detailed Specification

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

21 History