

Subject: Issue 20, and issues related to pointer assignment and procedure pointers
 From: Van Snyder

1 Discussion

In addition to the topic of issue 20, most of the contents of the paragraphs at 155:39-2 should be constraints.

2 Edits

Edits refer to 99-007r3. Page and line numbers are displayed in the margin. Absent other instructions, a page and line number or line number range implies all of the indicated text is to be replaced by immediately following text, while a page and line number followed by + indicates that immediately following text is to be inserted after the indicated line. Remarks for the editor are noted in the margin, or appear between [and] in the text.

The target of a pointer assignment operation is a data object or a procedure. It may be specified directly, by a pointer, or be the result of a function reference that returns a pointer.	155:3+
[Editor: Remove “ <i>pointer-object ... and</i> ”]	155:14
Constraint: The ranks of the <i>pointer-object</i> and the <i>target</i> shall be the same.	155:18-19
Constraint: The corresponding kind type parameters of the <i>pointer-object</i> and the <i>target</i> shall be equal.	
[Editor: Delete the J3 note.]	155:20-33
[Editor: Replace from the beginning of the paragraph through (●) by the following constraints:]	155:39-42
Constraint: If the <i>pointer-object</i> is a procedure pointer that has an explicit interface, the characteristics listed in 12.2 shall be the same for the <i>pointer-object</i> and the <i>target</i> , except that a <i>target</i> that is pure may be assigned to a <i>pointer-object</i> that is not pure and a <i>target</i> that is an elemental intrinsic procedure may be assigned to a <i>pointer-object</i> that is not elemental.	
Constraint: If the <i>pointer-object</i> is a procedure pointer, the <i>target</i> shall be polymorphic if and only if the <i>pointer-object</i> is polymorphic.	
Constraint: If the <i>pointer-object</i> is a procedure pointer, the <i>target</i> shall be the specific name of an external, module, or dummy procedure, a specific intrinsic procedure listed in 13.15 and not marked with a bullet (●), a procedure pointer, a reference to a function that returns a procedure pointer, or a reference to the NULL intrinsic function.	
[Editor: Start a new paragraph with the sentence that remains after the above redaction, insert “ <i>target is a</i> ” before “specific” and insert “that” before “is also”.]	155:42-43
[Editor: Delete – it’s replaced by the first constraint above at 155:39-42.]	155:45-2