Subject: More little problems with procedure pointers
From: Van Snyder

1 Introduction

(1) It ought to be allowed to specify intent for dummy procedure pointers.

(2) Whether a dummy procedure is a pointer ought to be a characteristic.

(3) It ought to be possible to assign a procedure to a procedure pointer with explicit interface from within itself. It's not always possible because the only procedures that have explicit interfaces from within themselves are recursive subroutines and recursive functions that have a result variable different from their names.

2 Edits

Edits refer to 00-007r1. 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.– Items 1 and 2

Constraint: The INTENT attribute shall not be specified for a dummy procedure that is not a dummy procedure pointer. 71:11-12

[Editor: After "explicit," insert "whether it is a pointer,".] 244:23

3 Edits – Item 3

This one is done separately so we can vote on it separately. Maybe there is a subtle reason for the status quo. Malcolm doesn't like this proposal because prohibiting nonrecursive procedures to have explicit interfaces from within themselves makes it difficult to use them as dummy arguments from within themselves, and therefore difficult to cause an erroneous recursion by mistake.

[Editor: Delete "recursive" twice.] 245:4-5