Subject: More work on BLOCK construct, or inspired by it
From: Van Snyder
References: J3-014, 06-142

1   Introduction

Disassociation of default-initialized pointer components of BLOCK construct-scoped variables needs to be discussed in Subclause 16.4.2.1.2. Investigation of this issue suggested several editorial changes in Subclause 16.3.

2   Edits

Edits refer to 04-007. 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 associated text, while a page and line number followed by + (-) indicates that associated text is to be inserted after (before) the indicated line. Remarks are noted in the margin, or appear between [and] in the text.

[Subclause 16.3 is wordier than necessary.]

[Editor: Move [409:33-36] to [410:10+].]   409:33-36

[Editor: Replace "includes" by "contains" to be parallel to [409:34].]   409:26

[Editor: Replace "scoping unit of a statement" by "scoping unit that contains a statement" to make it 409:37
clear that a statement is not a scoping unit.]

[Editor: Replace "scoping unit of a FORALL" by "scoping unit that contains a FORALL" to make it   409:42
clear that a FORALL is not a scoping unit.]

[Editor: Delete the paragraph beginning "If a global identifier accessible in the scoping unit of a 410:2-5
FORALL...," or if this reorganization isn't done replace "in the scoping unit of a FORALL" by "in the
scoping unit that contains a FORALL" to make it clear that FORALL is not a scoping unit.]

[Editor: Replace the final paragraph of Subclause 16.3 with the following, to encompass FORALL,   410:11-14
SELECT TYPE, ASSOCIATE and BLOCK constructs:]

If a global or local identifier accessible in the scoping unit containing a construct is the same as the identifier of a construct entity, that identifier is interpreted within the construct as that of the construct entity. Elsewhere in the scoping unit, it is interpreted as the global or local identifier.

[If this reorganization of 16.3 isn't done, at least replace "scoping unit of a SELECT" BY "scoping unit that contains a SELECT" to make it clear that a SELECT TYPE construct or an ASSOCIATE construct is not a scoping unit.]

[Editor: Delete the edit at this point in 06-014 that arises from 06-142. If this reorganization of 16.3 isn't 410:14+
done, at least replace "scoping unit of a BLOCK construct" by "scoping unit that contains a BLOCK
construct" to be parallel with [409:34], and make it clear that this paragraph does not contemplate that
a BLOCK construct is a scoping unit.]

[Pointer components of BLOCK construct-scoped variables that have default initialization become dis- 414:29
associated when the BLOCK statement is executed. Delete "or" and add the following list item.]

> (b$\frac{1}{2}$)   The BLOCK statement of a BLOCK construct with this object as an unsaved nonpointer
>   nonallocatable local object that is not accessed by use or host association is executed, or