Subject: EXIT from any named construct other than WHERE or FORALL
From: Van Snyder
Reference: 03-258r1, section 2.1.2, 04-109, 04-156r1, 04-395r1, WG5/N1626-J3-024

1   Detailed Specification

Allow an EXIT statement with a *do-construct-name* that is the same as the name of any enclosing construct other than WHERE or FORALL, not just a DO construct. When the EXIT statement is executed, execution of the named construct is terminated. For compatibility, an EXIT statement without a *do-construct-name* continues to refer to the nearest enclosing DO construct.

2   Editorial strategy

Replace *do-construct-name* in R844 with *construct-name*. Allow it to be the name of any construct that encloses the EXIT statement. Add a new subclause 8.1.7 that describes the EXIT statement but not loop termination. Specify there that the EXIT applies to the construct named by the *construct-name*. Do not change the interpretation of an EXIT statement that doesn't mention a *construct-name*.

3   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.

[Editor: Delete the first two paragraphs and the syntax rules for EXIT from **8.1.6.4.4 Loop termination**.]   168:4-10

[Editor: In the third textual paragraph of **8.1.6.4.4 Loop termination**, which becomes the first paragraph   168:11
as a result of the previous edit, "The loop" ⇒ "A loop".]

[Editor: In item (3) in the numbered list in **8.1.6.4.4 Loop termination**, "outer DO construct" ⇒ "outer   168:16
construct".]

[Editor: Insert a new subclause immediately before 8.2:]   169:1-

8.1.7 EXIT statement

The EXIT statement provides one way of terminating a construct.

R844   *exit-stmt*   **is**   EXIT [*construct-name*]

C829   (R844) If an *exit-stmt* refers to a *construct-name*, it shall be within that construct; otherwise,
         it shall be within the range of at least one *do-construct*.

An EXIT statement belongs to a particular construct. If the EXIT statement refers to a construct name, it belongs to that construct; otherwise, it belongs to the innermost DO construct in which it appears.

When an EXIT statement that belongs to a DO construct is executed, it terminates the loop (8.1.6.4.4) and any active loops contained within the terminated loop. When an EXIT statement that belongs to a non-DO construct is executed, it terminates any active loops contained within that construct, and completes execution of that construct.

[Editor: Delete the first "DO" from the definition of **belong** in the glossary.]   426:8