

Subject: Comments on Clause 8  
 From: Van Snyder

## 1 Edits

- 2 Edits refer to 06-007. Page and line numbers are displayed in the margin. Absent other instructions, a  
 3 page and line number or line number range implies all of the indicated text is to be replaced by associated  
 4 text, while a page and line number followed by + (-) indicates that associated text is to be inserted after  
 5 (before) the indicated line. Remarks are noted in the margin, or appear between [ and ] in the text.
- 
- 6 [The paragraph contributes nothing that the syntax rules don't already specify. Editor: Delete it, but 175:19-21  
 7 consider adding something in Clause 2.]
- 
- 8 [Editor: Delete this incorrect (but redundant to the extent it is correct) paragraph.] 175:22-23
- 
- 9 [Editor: put the "construct" subclauses into alphabetical order, with the EXIT subclause after them.] 176-193
- 
- 10 [Subclause **8.1.2.1 Executable constructs in blocks** says nothing that is not said better by the syntax 176:2-3  
 11 rules. Editor: Delete it.]
- 
- 12 [The paragraph overlooks EXIT, CYCLE, and RETURN statements. This is a good place to cover all 176:10-11  
 13 the bases. Editor: Replace "or ... place" by ", when a branch (8.2) within the block that has a branch  
 14 target outside the block occurs, when a RETURN statement within the block is executed, or when an  
 15 EXIT or CYCLE statement that belongs to a construct that contains the block is executed".]
- 
- 16 [**8.1.3 IF construct** needs to start with 8.1.3.1. Editor: Replace the subclause heading by "**8.1.3 IF 176:12-16  
 17 construct and statement**", move [176:16] to [176:12+], and move "The **IF statement...**" to [177:10],  
 18 replacing the paragraph there.]
- 
- 19 [The branch targets are enumerated at [193:7-10], which is the correct place. Editor: Delete "An ELSE 177:5  
 20 IF ... statement."]
- 
- 21 [Editor: Move to [178:4+].] 178:2-3
- 
- 22 [Editor: Delete this redundant paragraph.] 179:13
- 
- 23 [The branch targets are enumerated at [193:7-10], which is the correct place. Editor: Delete "A CASE 179:14  
 24 ... statement."]
- 
- 25 [Constraint C808 and C812 say that a *variable* with a vector subscript shall not appear in a variable 181:30-31  
 26 definition context. Editor: Delete "or is an array with a vector subscript,".]
- 
- 27 [Editor: Move to [182:5+].] 182:2-4
- 
- 28 [The branch targets are enumerated at [193:7-10], which is the correct place. Editor: Delete "A type 184:2  
 29 guard statement ... statement."]
- 
- 30 [The phrase "anywhere in the DO construct" is inaccurate: consider the case of an EXIT statement that 185:7-8  
 31 belongs to a construct that is within the subject DO construct. The paragraph also overlooks a CYCLE  
 32 statement that belongs to a containing construct, as well as RETURN, and branching statements. Why  
 33 say all this again when it's already said in subclause 8.1.7.5.4? Editor: "an EXIT ... immediately" ⇒  
 34 "the loop can be terminated immediately (8.1.7.5.4)".]
- 
- 35 [Editor: "are said to" doesn't contribute anything. Delete it.] 186:29
- 
- 36 ["DO CONCURRENT" isn't a noun. Editor "DO CONCURRENT" ⇒ "construct".] 187:23
- 
- 37 [It appears that the range of the loop is not executed if there's no iteration count (DO forever, DO 187:36  
 38 WHILE), but that the loop might not terminate in step (1). Editor: "If ... nonzero, the" ⇒ "The".]
- 
- 39 [The appearance of a *do-construct-name* in a CYCLE statement is not a reference. Editor: "a *cycle-stmt* 188:10  
 40 refers to a *do-construct-name*, it" ⇒ "*do-construct-name* appears, the CYCLE statement".]

41	[The syntax rules do not permit a <i>do-term-shared-stmt</i> to be a construct. The word “itself” doesn’t contribute anything. Editor: Delete “or construct itself”.]	188:25
43	[I couldn’t find a constraint against RETURN statements appearing within the range of a DO CONCURRENT construct. The prohibition against branching out should be a constraint (or the constraints against EXIT and CYCLE should be prohibitions against executing them). Editor: Replace with the following two constraints:]	189:10
47	C829a A RETURN statement shall not appear within a DO CONCURRENT construct.	
48	C829b A branch (8.2) within a DO CONCURRENT construct shall not have a branch target that is outside the construct.	
50	[The appearance of a <i>do-construct-name</i> in an EXIT statement is not a reference. Editor: “an <i>exit-stmt</i> refers to a <i>do-construct-name</i> , it” $\Rightarrow$ “ <i>do-construct-name</i> appears, the EXIT statement”.]	191:4
52	[A BLOCK construct isn’t a block, it’s a construct. Editor: “block which” $\Rightarrow$ “construct which”.]	191:16
53	Execution of a BLOCK construct causes evaluation of the specification expressions within its <i>specification-part</i> , followed by execution of its block.	191:29-32
55	[The description of termination of a critical construct is defective. It allows a branch within a procedure called within the construct to terminate the construct’s execution (since its target is not within the block), and it ignores EXIT, CYCLE, and RETURN statements. This is all covered by the edit for [176:10-11]. Editor: Replace the paragraph by the following:]	192:13-14
59	Execution of the CRITICAL construct is completed when execution of its block is completed.	
60	[What is the reason to use underscores in the SYNC statements? No other statement keyword has underscores, and the only attribute keyword that has an underscore is NON_OVERRIDABLE. Editor: Replace the underscores by blanks.]	Subclause 8.5
63	[Editor: “<=” $\Rightarrow$ “ $\leq$ ” (\leq).]	203:12