Subject: Comments on C1107 and similar issues
From: Van Snyder

1 Introduction

The phrase "for which component initialization is specified" within C1107 at [290:23] doesn't explicitly extend to components of components. . . . If it is interpreted to do so (and some processors do so interpret it), it appears to extend to components of allocatable or pointer components, which is absurd. The term "ultimate component" may not be right because it encompasses only components of intrinsic type. The term "subcomponent" isn't right because it crosses ALLOCATABLE or POINTER boundaries. A new term, say "direct component", is needed. On the other hand, if a component that is of derived type has default initialization, its ultimate components could be construed to have default initialization.

2 Edits — assuming "ultimate component" isn't right

Edits refer to 06-007. 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.

The **direct components** of an object of derived type are the components of that object, and components of its nonpointer nonallocatable direct components. 45:1- New ¶

[Editor: "*component-initialization* is specified (R448)" ⇒ "*component-initialization* (R448) is specified for a direct component (4.5.1)".] 290:23

[Editor: "with" ⇒ "for which a direct component has".] 294:14

[If a component of a component of an actual argument associated with an INTENT(OUT) dummy has default initialization, does it become undefined? I think the intent is that it doesn't. Editor: Insert "direct" before "component".] 315:36

[Editor: Insert "direct" before "component".] 319:22

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