

Subject: Feature creep – make allocatable components optional in constructors
 From: Van Snyder

1 Introduction

2 This paper proposes additional functionality parallel to the capability introduced in Fortran 2003 to omit
 3 a *component-spec* from a *structure-constructor* if the component has default initialization. The extension
 4 is to allow to omit a *component-spec* for an allocatable component, with the effect that the component
 5 of the constructed object is not allocated. One can think of constructors as requiring a *component-spec*
 6 for every component that would have some kind of undefined status or value if it were omitted. Since
 7 allocatable components are always either deallocated or allocated, with no limbo equivalent to undefined
 8 pointer association status, this change makes sense.

9 2 Edits

10 Edits refer to 04-007. Page and line numbers are displayed in the margin. Absent other instructions, a
 11 page and line number or line number range implies all of the indicated text is to be replaced by associated
 12 text, while a page and line number followed by + (-) indicates that associated text is to be inserted after
 13 (before) the indicated line. Remarks are noted in the margin, or appear between [and] in the text.

14 [Editor: Within C485 insert “is allocatable or” before “has default initialization” twice.] 63:31-33

15 [Editor: Add a new sentence at the end of and within the paragraph immediately before NOTE 4.57:] 64:15

16 If an allocatable component has no corresponding *component-data-source*, then that component of the
 17 constructed object has a status of unallocated.