

Subject: Edits to implement decisions in 00-155 concerning ALLOCATABLE
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 References: 00-155

1 Introduction

In paper 00-155, Malcolm provided alternative syntaxes to implement the capability to specify the type of object to be allocated by reference to another object. There was a straw vote, and the syntax “SOURCE = *source-variable*” won. This paper provides edits, as outlined in 00-155 but updated to reflect the result of the straw vote and to refer to 00-007r1.

2 Edits

Edits refer to 00-007r1. 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 immediately following text, while a page and line number followed by + indicates that immediately following text is to be inserted after the indicated line. Remarks for the editor are noted in the margin, or appear between [and] in the text.

	or SOURCE = <i>source-variable</i>	102:15+
R631a	<i>source-variable</i> is <i>variable</i>	102:23+
Constraint:	If SOURCE= is specified, <i>type-spec</i> shall not be specified, <i>allocation-list</i> shall contain only one <i>allocation</i> , and <i>allocate-object</i> shall be type compatible with <i>source-variable</i> .	102:38+
Constraint:	The <i>source-variable</i> shall be polymorphic and have the same rank as the <i>allocate-object</i> .	
Constraint:	Corresponding kind type parameters of <i>allocate-object</i> and <i>source-variable</i> shall have the same values.	
[Editor:	After “;” insert “if a <i>source-variable</i> is specified, it allocates an object whose dynamic type and type parameters are the same as those of the <i>source-variable</i> ;”]	103:6
If SOURCE= is present,	<i>source-variable</i> shall have the same shape as <i>allocate-object</i> . If the value of a nondeferred nonkind type parameter of <i>allocate-object</i> is different from the value of the corresponding type parameter of <i>source-variable</i> , an error condition occurs. If the allocation is successful, <i>source-variable</i> is then assigned to <i>allocate-object</i> as if by intrinsic assignment for objects whose declared type is the dynamic type of <i>source-variable</i> .	103:25+