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| 8.5.8.7 | | te | <p>The bounds of assumed-rank entities with the POINTER or ALLOCATABLE attribute are unspecified.</p> <p>From 18.5.3 para 3, one gets the impression that this case should be treated the same way as for deferred-shape arrays, but the corresponding section 8.5.8.4 does not apply for the assumed-rank case. Also note that while 11.1.10.1 (C1155) implies that an assumed-rank entity can have the POINTER or ALLOCATABLE attribute, this is not explicitly stated anywhere.</p> | <p>Section 8.5.8.7 "Assumed-rank entity", add a new para 2:</p> <p>"An assumed-rank entity may have the POINTER or ALLOCATABLE attribute. If its effective argument has the same attribute and is an allocated allocatable array or an associated array pointer, its bounds, and hence its shape, are those of the effective argument."</p> |
| 8.5.8.7 | para 1 | te | <p>Constraint C837 appears to not exclude the following:</p> <pre>REAL, ALLOCATABLE :: A(..) REAL, POINTER :: B(..) REAL, TARGET :: BT(:,:) IF (RANK(A) == 2 .AND. RANK(B) == 2) THEN B => BT ALLOCATE(A(2,2)) END IF</pre> <p>I assume that the above pointer assignments and allocations should be limited to appear within a non-default block of a SELECT RANK construct. With the proposed change in place, this would still be permitted due to 11.1.10.3 para 1.</p> | <p>Section 8.5.8.7 "Assumed-rank entity", in C837 replace</p> <p>"in a designator or expression except"</p> <p>by</p> <p>"in a designator, in an expression, as an allocate-object, as a data-pointer, or as a data-pointer-object, except"</p> |
| 16.9.197 | para 5 | te | <p>The behaviour of UCBOUND inside a CHANGE TEAM construct, when applied to a coarray established in an ancestor team, is not in line with that of other intrinsics like NUM_IMAGES(), which by default refer to the current team.</p> <p>For paper https://j3-fortran.org/doc/year/17/17-206.txt that included this topic, the rejection was justified with the argument that there are implementation difficulties. However, given that establishment of coarrays is a non-static concept (in the case of dummy coarray arguments, establishment may change when the procedure starts execution – see 5.4.8 para 5) it seems that the current definition is not correct, apart from breaking composability.</p> | <p>Introduction, para 2, page xx, heading "Changes to features previously described by ISO/IEC TS 18508:2015:" add text at the end of the bullet:</p> <p>"The intrinsic function UCBOUND produces a final upper cobound that is always relative to the current team."</p> <p>In subclause 16.9.197 para 5, replace</p> <p>"team current when COARRAY was established"</p> <p>with</p> <p>"current team"</p> <p>so that the complete sentence reads:</p> <p>"The final upper cobound is the final cosubscript in the cosubscript list for the coarray that selects the image whose index is equal to the number of images in the current team."</p> |