ISO/IEC JTC1/SC22/WG5/N1212

Replacement for page 6 of N1196.

1. If the component of the variable is currently allocated, it is deallocated.
2. If the corresponding component of the expression is currently allocated, the component of the variable is allocated with the same shape. The value of the component of the expression is then assigned to the corresponding component of the variable using intrinsic assignment.

Note that this definition of assignment facilitates certain optimizations when the allocatable array component of the expression is allocated. In particular,

1. if the corresponding component of the variable is allocated with the same (or larger) size, its storage may be re-used without the overhead of an additional allocation or deallocation;
2. if the expression is a function reference, the processor may simply copy the descriptor instead of the allocatable array contents and omit the deallocation of this component.