

To: WG5/X3J3
From: /data
Subject: /data Requirements 1
References : N1238, N1251

Introduction

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The /data subgroup has discussed and voted on those items identified by the electronic subgroup as requirements, as given in paper N1251. All items which gained an average priority value of 1.0, or higher, and which are not already being worked on by X3J3 were considered for inclusion in the list.

This paper summarizes the results of those votes for Category-1 and Category-3 items only; details of Category-2 items are included in a separate document.

Requirements for Inclusion into Fortran 2000

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The /data subgroup believes the following should be requirements for Fortran 2000:

- 1.1.9 Aliasing Type Definitions (Repos. #11)
Allow programmers to use one type name as an alias for another.
- 1.4.1 Allow PUBLIC entities of PRIVATE type (Repos. #75)
- 1.4.3 Separate specification of the access attribute of derived type components (data-E4)
Remove the restriction that either all or none of the components of a derived type have to be public or private.
- 3.2 Regularize KIND parameterization intrinsics (Repos. #57)
2. SELECTED_INT_KIND and SELECTED_REAL_KIND operate with radix 10. Introduce an optional, default integer parameter RADIX to allow kind selection with different radix, like radix <r> or radix <q>
- 3.4 Extend ALLOCATE to specify non-KIND type parameters (Repos. #72)
Extend the ALLOCATE statement to allow specification of type parameters. Allow POINTER or ALLOCATABLE to be used with declaration forms used to 'assume' type parameters.