

Committee: ISO/IEC JTC 1/SC 22

Ballot Number: SC 22 N 4146

Ballot Title: New Work Item Proposal for Further Interoperability with C, Type 2 TR

Source: JTC 1/SC 22 Secretary

P-Member	Q.1	Q.2	Q.3	Q.4	Q.5	Q.6	Comments
Austria							
Canada							Abstain. See below
China	Y	Y	N	N	N	N	
Czech Republic							
Denmark	Y	Y	Y	N	N	N	
France							
Germany	Y	Y	N	N	N	N	
Italy	Y	Y	N	N	N	N	
Japan	Y	Y	Y	N	N	N	Japanese MB recommends that the word "Fortran" should be included in the name of TR, such as "Further Interoperability of Fortran with C"
Republic of Korea	Y	Y	N	N	N	N	
Netherlands	Y	Y	Y	N	N	N	Participant: Mr. dr. G.M van Waveren Fujitsu Systems Europe Ltd. 8, rue Maryse Hilz Parc de la Plaine F-31500 Toulouse FRANCE Tel: 0033 562476334 Matthijs.vanwaveren@fr.fujitsu.com
Romania	Y	Y	N	N	N	N	
Russian Federation							
Spain							
Switzerland							
Ukraine							
United Kingdom	N	Y	Y	N	N	N	See below
United States	Y	Y	Y	Y	N	N	Project Editor: Bill Long email: longb@cray.com

National Body Comments

Canada

There may be some gain in a project of this sort, but there are also significant challenges. There are portability issues, especially in the area of further exposure of Fortran data type layouts. We would prefer approaches that use procedural interfaces and data elements that make sense in each language on their side of an interface.

United Kingdom:

Q1.

- a) The word “Fortran” should appear in the title of the TR, for example as in “Further Interoperability of Fortran with C”
- b) The purpose and justification section is misleading for those unfamiliar with the background. Both the current status and the expected outcome should be more accurately defined. A possible rewording would be:
Purpose and justification – C interoperability in the Fortran Standard provides for the sharing of some forms of data between Fortran and C.
However, it does not address procedures that have data pointer, allocatable, assumed-shape array, or optional dummy arguments. This work item aims to develop ways and means, within a Fortran environment, to allow C functions to handle such Fortran dummy arguments directly.