

ISO/IEC JTC 1/SC 22/WG 5 "Fortran"
Convenorship: **ANSI**
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Disposition of Comments for CD of 1539-1 Fortran

Document type	Related content	Document date	Expected action
General / Other	Project: ISO/IEC CD 1539-1	2022-07-23	

Description

Disposition of comments received against the Committee Draft of project 1539-1 Fortran (Fortran 2023)

Template for comments and secretariat observations

Date:2022-07-22

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Project: 1539-1 Fortran

MB/ NC ¹	Line number	Clause/ Subclause	Paragraph/ Figure/Table	Type of comment ²	Comments	Proposed change	Observations of the secretariat
UK00 1				general	<p>The content of the revision was chosen by WG5 at its meeting in 2019, see Resolution T1 in ISO/IEC JTC1/SC22/WG5 N2170, and we congratulate J3 on its work in implementing this.</p> <p>It was always the intention that this revision be small and we feel that this aim has been largely achieved, but the set of extensions, listed on pages xiii and xiv of the draft, is substantial and there have been difficulties with the details of several of them. There are two features that have not been included:</p> <p>US19. Protected Components US27. Syntax to specify that the target of a dummy argument pointer is not to be changed</p> <p>Both of these were included at the time in a list of "Incomplete or Undecided" features.</p> <p>For US19, the choice between protected components and protected types was undecided in 2019 and J3 appears still to be undecided.</p> <p>For US27, J3 decided (see J3/21-195) that "At this time, the feature is not sufficiently developed for inclusion in this revision of the standard, and attempting to put it in at the last minute would likely lead to problems and inconsistencies, even assuming we could reach consensus on the basics."</p>		<p>Both US-19 and US-27, deferred from the Fortran 2023 (202X) work plan, are planned for inclusion in the next revision.</p> <p>The committee looks forward to receiving further detailed comments.</p>

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Type of comment: ge = general te = technical ed = editorial

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					<p>and has recommended that it should not be part of this revision, but should be considered for the next revision.</p> <p>We hope that both will be declared as not to be included in this revision but to be considered for the next revision.</p> <p>We have some detailed comments on the draft. For example, the reference to the C standard should be to the 2018 edition rather than the 2011 version (page 2 et seq). We will submit these comments directly to J3 for processing.</p>		
JP002	15	3.112.4		ed	The position of "(R1408)" is incorrect.	"(R1408)" should be moved to after "subprogram".	Agreed. See https://j3-fortran.org/doc/year/22/22-177r1.txt for edits.
JP003	25	3.138.3		ed	Default integer is missing from the list of default types that are not included in unspecified storage unit.	"default integer," should be added in the list of default types in the sentence.	Agreed. See https://j3-fortran.org/doc/year/22/22-177r1.txt for edits.
JP004	4 24 22-	7.5.4.3 3.27 5.4.7	NOTE 1	te	<p>According to the definitions in 3.27 and 5.4.7, only data entity can be a coarray, but here it is explained as if a derived type component can be a coarray.</p> <p>Alternatively, if the definition of coarray would be extended to include derived type component, 3.27, 5.4.7 and many other parts should be modified.</p>	<p>"a derived type definition with a coarray component"</p> <p>□ "a derived type definition with a component specified with a CODIMENSION clause"</p> <p>Alternatively, "data entity that has nonzero corank"</p> <p>□ "entity that has nonzero corank" in 3.27 and 5.4.7, and "coarray" □ "coarray object" in many parts of 5.4.7 and other clauses.</p>	We agree that there is an ambiguity. PL22.3 paper 22-180 (https://j3-fortran.org/doc/year/22/22-180.txt) has further discussion and edits.

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JP005	13	8.5.20	Paragraph 2	ed	typo: extra "between"	"The relationship between between coarrays," □ "The relationship between coarrays,"	Agreed. See https://j3-fortran.org/doc/year/22/22-177r1.txt for edits.
JP-006	1	8.5.6.1	C826	ed	usage of "or"	"shall be an associate name, a dummy argument, or have the ALLOCATABLE or SAVE attribute." □ "shall be an associate name or a dummy argument, or have the ALLOCATABLE or SAVE attribute."	Agreed. See https://j3-fortran.org/doc/year/22/22-177r1.txt for edits.
JP007	7	8.5.8.1	R814	te	<i>dimension-spec</i> is defined here but not used anywhere.	R814 should be removed, or <i>dimension-spec</i> should be used in the definitions of <i>attr-spec</i> (R802) and <i>component-attr-spec</i> (R738).	Agreed. See https://j3-fortran.org/doc/year/22/22-177r1.txt for edits.
JP008	26 1	8.6.12	R858 C892	te	<i>proc-entity-name</i> is used in these two places, but it is not described what it is and how to define it.	If it is the same as <i>procedure-entity-name</i> appearing in <i>proc-decl</i> (R1515), every <i>proc-entityname</i> should be <i>procedure-entity-name</i> .	Both "proc-entity-name" and "procedure-entity-name" have the syntax of "name", by our assumed syntax rules (4.1.3). The wording "proc-entity" and "procedure-entity" convey no semantics other than what is said in the separate subclauses. These two syntax terms have different usages and semantics; the proc-entity-name is only required to be the name of a procedure that has the EXTERNAL attribute, but procedure-entity-name has many requirements based on its usage in the procedure declaration statement. We agree that having two different BNF terms with such similar names is confusing. As proc-entity-name is only used in the declaration of a

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							procedure pointer, we will change it to procptr-entity-name. See https://j3-fortran.org/doc/year/22/22-177r1.txt for edits.
JP009	8	A.2	p.554	ed	typo: extra comma	The comma should be removed in “the interaction between argument association and pointer association, (15.5.2.5);”	Agreed. See https://j3-fortran.org/doc/year/22/22-177r1.txt for edits.

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