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Fortran

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MB/ NC¹	Line number	Clause/ Subclause	Paragraph/ Figure/Table	Type of comment ²	Comments	Proposed change	Observations of the secretariat	
GB1	2	Introduction	5	ed		Change "in the next revision" to "in a future revision".	This change is not accepted, but progress has been made towards the objective of resolving the underlying problems during the integration of the features into the next version of the Fortran standard.	
DE1	[p9:3]	5.1	para 1		mprove clarity: "both sibling and ancestor" may be nisunderstood.	replace "both sibling and ancestor" by "either sibling or ancestor"	Agreed, without "either" in new text.	
GB2	27	5.2		ed	"default-initialized", with hyphen, is a defined term	Change "default initialized" to "default-initialized	d". Agreed.	
DE2	[p10:17+]	5.3	para 3		gainst [p10:27-28].	Delete [p10:17-18]. In [p10:27+] replace first sentence by "A codimension-decl in a coarray-association associates a coarray with an established coarray identified by coselector-name during the execution of the block."	This change is not accepted. We feel that the extra precision in the sentence is valuable. However, it would be better if the sentence were moved to the start of paragraph 5, "A codimension-decl".	
DE3	[p10:19+]	5.3	para 4	ind	The first sentence of the paragraph states incorrectly what is stated correctly in the second entence.	Delete [p10:19-20].	Agreed.	
DE4	[p10:37+]	5.3	para 8	un pre	innecessarily strict, since the later text only brescribes synchronization across the specified eam.	Replace the second and third sentence in para 8 [p10:37-40] by "All active images of the team containing the executing image that is identified by team-variable shall execute the same CHANGE TEAM statement. When this CHANGE TEAM statement is executed, there is an implicit synchronization of all these images."	This change is not accepted. It was intended that a single CHANGE TEAM construct should fully control the change of execution.	
l l	[p11:13] [p11:17]	5.4	para 3, 4			Replace "an image index" by "the image index", twice.	Agreed. We note that the first line of 6.6 in ISO/IEC 1539-1 contains the words "the image index".	
JP1	p.11, line 12	5.4			The definition of "ancestor team" should be in "3 Ferms and definitions".		We do not think that this change is needed. ISO/IEC 1539-1 uses the adjective "ancestor" for components and	

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			T	1	T				modu	lles without a definition in Clause 3.
1	p.13, line 6	5.5		te	dete	planation in the case of an error condition of tection of a failed image is missing in this ragraph.			It is m	o not think that a change is needed. nade clear that the synchronization active images and there is more nation in Clause 6.4.
	p.16, line 20	6.4		ed	typo) F	Repl	lace "image image" with "image".	Agree	ed.
GB3	6, 7	7.2		te	unn imp	ach component is fully default initialized.". This inecessarily excludes the possibility that an plementation might use an allocatable imponent. There is no technical reason to forbid at.	allo	nange "Each component" to "Each non- locatable component". Also change "default itialized" to "default-initialized".		Agreed, without hyphen in "non- allocatable".
GB4	8	7.2		ed		The count of an event variable is part of its value. This is not clear from the text.	"Th	nange "An event variable has a count that" to he value of an event variable includes its ever ount, which"		Agreed.
GB5	15	7.2		ed		Clause 7.2 does not make it clear that the updates to an event variable have their effects in a sequence even when the statements are not ordered. An explicit statement is needed to avoid possible confusion.	of a of E of E of E with to c are stat stat	dd a new paragraph after line 26: During execution of the program the event cour an event variable is changed only by execution EVENT POST and EVENT WAIT statements. Each such change in the event count is associated that the unique statement execution that caused change; that is, the updates to the event cour e sequentially consistent. Except as otherwise atted, this does not imply any ordering to the attements causing the changes to the event bunt."	on ": int p int p int int	We have chosen to add a new paragraph at the end of Clause 7.1: Segments ordered by EVENT POST and EVENT WAIT are Included in the partial order specified in subclause 2.3.5 of ISO/IEC 1539-1:2010."
GB6	2-4	7.3		ed		This paragraph is saying nothing that cannot be deduced from the rules on segments.		elete the paragraph: "If the segment proces ependent".	sor	Agreed.
GB7	4+	7.3		te		It is the intention of the event feature that after posting an event, an image can continue to execute without waiting for an EVENT WAIT statement to execute on the image of the event variable. The example in Clause A.3.1 relies on this assumption. This should be made definitive.	"Th doe EVI	dd a new paragraph at the end of Clause 7.3: The completion of an EVENT POST statement pes not depend on the execution of a matching VENT WAIT statement." Pelete NOTE 7.2.	t "	Agreed, with "matching" replaced by corresponding".
GB8	21-24	7.4	†	te		This paragraph does not explain which	Re	eplace the paragraph at page 18, lines 21-24 b	by F	Agreed.

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						"An EVENT POST statement execution is initially "unsatisfied". Successful execution of an EVENT WAIT statement with a threshold of k satisfies the first k unsatisfied EVENT POST statement executions for that event variable. This EVENT WAIT statement execution causes the segment following the EVENT WAIT statement execution to succeed the segments preceding those k EVENT POST statement executions."	
GB9	25	7.4		ed	The statement "A failed image might cause an error condition for an EVENT WAIT statement" is vague and unhelpful. It has no place in a standard.	The sentence should be amplified or deleted.	We agree with deletion.
GB10	25+4- 25+7	7.4		te		Replace the last sentence of the new paragraph above by "This EVENT WAIT statement execution causes the segment following the EVENT WAIT statement execution to succeed the segments preceding all the satisfied EVENT POST statement executions (including the <i>k</i> EVENT POST statement executions satisfied by this EVENT WAIT statement execution).". Also delete NOTE 7.4.	Agree to delete NOTE 7.4, but acceptance of GB8 makes the new text unnecessary.
	p.18, line 20	7.4		an e		ne count is processor dependent." PC thir not eve Ad err. cou pro the the the	reed, and we think that an EVENT ST statement should be similar. In the d para.of 7.3, replace "the count does change" by "the value of count of the ent variable is processor dependent." d extra para. after the list in 7.4: " If an or condition occurs, the value of the unt of the event variable becomes cessor dependent." Add extra item in list in 9.11: "the value of the count of event variable in an EVENT WAIT or ENT POST statement when there is error condition (8.5.2b)."
DE6	[p20:8-9]	8.3	para 2		confusing, especially when considering NOTE	des abl	e do not think that this change is sirable. An implementation may be e to take advantage of A being a array, in which case the restriction is

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	ī		1	1			1				·
									needed	•	
DE7	[p20:10- 12]	8.3	para 3		supe sam	second sentence of the paragraph appears erfluous since [p20:4] already says that the ne statement must be executed to invoke the ective.	Dele	te [p20:10-12]: "If the STAT team."	desirab present and not	not think that this change is le. An optional argument might in one execution of a statemer present in another execution one statement.	nt
JP5	p.20, line 8	8.3			be a proc	A argument of collective subroutines should a coarray or a subobject of it, so that a cessor does not need to implement another imunication mechanism for noncoarrays than for coarrays.			desirab used by commu necessa issue ai provide	not think that this change is incept the implementation, so another the implementation, so another incation mechanism is not ary. WG5 has discussed this and decided that it is desirable to the extra generality of allowing that that are not coarrays.	er o
JP6	p.26, line 38-43	8.4		te		definition of the term "image-dependent" is not ed. This is the only place it appears.	"If it is procedured approach all im If it is all im of the dependent of the improcedured approach and it is all improcedured approach app	is a scalar, the computed value is equal to a essor-dependent and image-dependent oximation to the sum of the values of A on nages in the current team. Is an array it shall have the same shape on nages in the current team and each element e computed value is equal to a processor-endent and image-dependent approximation e sum of all corresponding elements of A on mages in the current team." The following: is a scalar, the computed value is equal to a essor-dependent approximation to the sum e values of A on all images in the current	Agreed		

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						cc th If th th	dependent approximation to the sum of all corresponding elements of A on the images in the current team. If RESULT_IMAGE is present, each element of the computed value can depend on the image that the RESULT_IMAGE specifies; otherwise, each element of the computed value is the same on all images in the current team."	
GB11		8.4.1 to 8.4.8		te		procedures should be rolled up with the corresponding atomic logical procedures. This	Change the specification of ATOMIC_ADD to ATOMIC_ADD (ATOM, VALUE [, OLD, STAT]) as similarly for ATOMIC_AND, ATOMIC_OR and ATOMIC_XOR.	We do not think that this change is desirable. Having separate names will be clearer and less error prone for users.
GB12		8.4.1 to 8.4.9, 8.4.15		te		For consistency with other intrinsic procedures and statements with a STAT= keyword, keyword ERRMSG should be added.	Add optional keyword ERRMSG to the ten procedures specified, as for CO_BROADCAST et	We do not think that this change is desirable. The benefit is not sufficient to justify the work involved.
GB13	18	8.4.15		ed			Change "no error conditions occurs" to "no error condition occurs".	Agreed.
GB14	19	8.4.15		te		the event of an error. It should be set to a	Change "Otherwise, it is assigned the value 0" to "Otherwise, it is assigned the value -1" or alternative.	Agreed, with the value -1.
GB15	22-27	8.4.15		te		been no successful posts or waits in preceding segments and there are no posts or waits in an unordered segments that might affect the value. A similar change makes the second example correct if the query is made on EVENT instead of EVENT[2]. There are uncertainties associated with querying the	Line 22: After "posts or waits" add "in preceding segments, and for which there are no posts or waits in an unordered segment". Line 25: Change "EVENT[2]" to "EVENT". Line 26: After "specification" add "in preceding segments, and for which there are no posts or waits in an unordered segment". Line 27: Change "EVENT[2]" to "EVENT".	Agreed. Furthermore, we would like to disallow the event variable being coindexed, for consistency with EVENT WAIT. Add the edit for line 15: Before "It" add "It shall not be coindexed."
1 1	p.27, line 17	8.4.15		ed	typo	R	Replace "that that" with "than that".	Agreed.
DE8 [[p30:39+]	8.5.2	para 3	ge	The	e text should provide details on the way the	Add a para 4	Agreed.

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DEG	[1, 04, 0]	0.5.0			result is modified. "The result is the image index in the specified team."			
DE9		8.5.3	para 1		The word "modified" appears unsuitable, apart from being repetitive.	In line 3, replace "modified" by "extended"	Agreed.	
DE10	[p31:4]	8.5.3	para 1	3	"a modified result" is incorrect because MOVE_ALLOC is a subroutine.	In line 4, replace "a modified result" by "modified semantics of execution"	Agreed.	
DE11	[p31:39+]	8.5.4	para 3		The text should provide details on the way the result is modified.	Add a para 4 "The result is the number of images in the specified team."	Agreed.	
GB16	page 51 lines 47- 52	A.3.2			The EVENT QUERY statement at line 47 and the test on its STAT value at line 48 is no longer needed with the removal of the concept of stalled images. There is no harm in creating a work item for an image that might have been detected as failed because it can be treated later in exactly the same way as if the image had failed during work on it. Also, the comment should refer to the master loop and there is no need to mention stalling.	EVENT POST (submit[i],STAT=status)	Agreed, with these additional edits. Replace lines 13 and 14 by "IF(IMAGE_STATUS(i)== STAT_FAILED_IMAGE) CYCLE" Replace lines 24 and 25 by "IF(IMAGE_STATUS(i)== STAT_FAILED_IMAGE) THEN"	

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