

WG 14 N 2071

(The draft TS is N 2017.)

Form 4: New Work Item Proposal

Circulation date:	Reference number: ISO/IEC NP TS 21938-1			
2016-08-19	(to be given by Central Secretariat)			
Closing date for voting:				
2016-11-12	ISO/IEC JTC 1/SC 22			
Proposer	N 5149			
(e.g. ISO member body or A liaison organization)				
ISO/IEC JTC 1/SC 22				
Secretariat				
ANSI				

A proposal for a new work item within the scope of an existing committee shall be submitted to the secretariat of that committee with a copy to the Central Secretariat and, in the case of a subcommittee, a copy to the secretariat of the parent technical committee. Proposals not within the scope of an existing committee shall be submitted to the secretariat of the ISO Technical Management Board.

The proposer of a new work item may be a member body of ISO, the secretariat itself, another technical committee or subcommittee, an organization in liaison, the Technical Management Board or one of the advisory groups, or the Secretary-General.

The proposal will be circulated to the P-members of the technical committee or subcommittee for voting, and to the O-members for information.

The proposer has considered the guidance given in the Annex C during the preparation of the NWIP.

Proposal (to be completed by the proposer)

Title of the proposed deliverable.				
English title:				
Programming Language C Part 1: Extensions for parallel programming Part 1: Thread-based parallelism				
French title:				
(In the case of an amendment, revision or a new part of an existing document, show the reference number and current title)				
Scope of the proposed deliverable.				
A Technical Specification in multiple Parts, specifying extensions to the programming language C. Each Part will specify extensions for a different aspect of parallel programming				
Purpose and justification of the proposal*				
Current vendor support for parallel programming in C is not universally available, and when it is available, methods of accessing that support are different for different vendors. This Technical Specification will unify the form and interpretation of parallel language extensions for C, to allow users to write portable code. It is expected that the Technical Specification, or parts of it, will be incorporated into a future International Standard after experience is gained with the Technical Specification in the marketplace.				
Consider the following: Is there a verified market need for the proposal? What problem does this standard solve? What value will the document bring to end-users? See Annex C of the ISO/IEC Directives part 1 for more information. See the following guidance on justification statements on ISO Connect: https://connect.iso.org/pages/viewpage.action?pageId=27590861				
Preparatory work (at a minimum an outline should be included with the proposal)				
A draft is attached An outline is attached An existing document to serve as initial basis				
The proposer or the proposer's organization is prepared to undertake the preparatory work required:				
Yes No				
If a draft is attached to this proposal:				
Please select from one of the following options (note that if no option is selected, the default will be the first option):				
Draft document will be registered as new project in the committee's work programme (stage 20.00)				
Draft document can be registered as a Working Draft (WD – stage 20.20)				
Draft document can be registered as a Committee Draft (CD – stage 30.00)				
Draft document can be registered as a Draft International Standard (DIS – stage 40.00)				
Is this a Management Systems Standard (MSS)?				
☐ Yes ⊠ No				
NOTE: if Yes, the NWIP along with the <u>Justification study</u> (see Annex SL of the Consolidated ISO Supplement) must be sent to the MSS Task Force secretariat (tmb@iso.org) for approval before the NWIP ballot can be launched.				

Indication(s) of the prefe	erred type to be produce	ed under the pro	posal.			
International Standa	ard	🛛 Technical	Specification			
Publicly Available S	pecification	Technical	Report			
Proposed development track						
□ 1 (24 months) □ 2 (36 months - default) □ 3 (48 months)						
Note: Good project management is essential to meeting deadlines. A committee may be granted only one extension of up to 9 months for the total project duration (to be approved by the ISO/TMB).						
Known patented items	(see ISO/IEC Directives	s, Part 1 for impo	ortant guidance)			
🗌 Yes 🛛 No						
If "Yes", provide full info	rmation as annex					
Co-ordination of work: T another standards deve		vledge, has this	or a similar proposal been submitted to			
🗆 Yes 🛛 No						
If "Yes", please specify v	which one(s):					
A statement from the proposer as to how the proposed work may relate to or impact on existing work, especially existing ISO and IEC deliverables. The proposer should explain how the work differs from apparently similar work, or explain how duplication and conflict will be minimized. Impact will be limited to the C programming language. However, since many other language compilers and runtime systems are implemented in C, the benefits will be available to implementers of other languages. Backwards compatibility will be maintained, so that preexisting code will not be affected.						
A listing of relevant exist	ting documents at the ir	nternational, regi	onal and national levels.			
ISO/IEC 9899:2011 Inf	ormation technology – F	Programming la	nguages – C			
Please fill out the relevant parts of the table below to identify relevant affected stakeholder categories and how they will each benefit from or be impacted by the proposed deliverable(s).						
	Benefits/impacts		Examples of organizations / companies to be contacted			
Industry and commerce large industry	Unified support for pa	arallelism				
Industry and commerce SMEs	Unified support for pa	arallelism				
Government	Unified support for pa	arallelism				
Consumers	Unified support for pa	arallelism				
Labour	Unified support for pa	arallelism				

Academic and research bodies	Unified support for parallelism						
Standards application businesses	Unified support for parallelism						
Non-governmental organizations	Unified support for parallelism						
Other (please specify)	Unified support for parallelism						
Liaisons:		Joint/paralle	el work:				
A listing of relevant exte		Possible joi	nt/parallel work with:				
organizations or internal parties (other ISO and/or IEC committees) to be engaged as liaisons in the development of the deliverable(s).		IEC (please specify committee ID)					
			CEN (please specify committee ID)				
	Other		(please specify)				
Note: The committee secretary shall distribute this NWIP to the countries listed above to see if they wish to participate in this work							
		IWIP to the c	ountries listed above to see if they wish				
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to participate in this wor Proposed Project Leader address) Clark Nelson	k er (name and e-mail	Name of the (include cor JTC 1/SC	e Proposer Itact information) 22/WG 14				
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Annex(es) are include	d with this proposa	(give details)
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Draft attached

Additional information/question(s)