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Languages
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ISO/TC97/SC22

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RESOLUTIONS ADOPTED AT THE
SECOND PLENARY MEETING OF ISO/IEC JTC1/SC22
WASHINGTON, D.C., U.S.A.
1987-09-08/11

Resolution 54: - Project 97.22.01.04 - Addendum to ISO 1989:1985 Cobol

ISO/IEC JTC1/SC22 requests that ANSI provide working drafts of an addendum to ISO 1989:1985 to resolve identified ambiguities and make corrections for errors.

Adopted Unanimously

Resolution 55: - Project 97.22.02 - Fortran - DP Registration

ISO/IEC JTC1/SC22 instructs its Secretariat to forward document ISO/TC97/SC22 N361, Final Working Draft Fortran Revision, to ISO Central Secretariat for DP registration and to circulate it for a three month letter ballot within SC22.

Abstain (Japan)

Resolution 56: - Registration of PL/I Document as Draft Proposal

ISO/IEC JTC1/SC22 instructs its Secretariat to forward document TC97/SC22 N290 to the ISO/CS for registration as a Draft Proposal after changing the title to "Programming Language - General Purpose PL/I".

Adopted Unanimously

Resolution 57: - Project 97.22.11 - Programming Language Basic

ISO/IEC JTC1/SC22 directs its WG8 to prepare for registration as a DP a single document for an ISO Basic standard which:

- (a) Establishes by reference ANSI X3.113-1987, Programming Language Basic, as one section of ISO Basic;
- (b) Completes the definition of ISO Basic with another section specifying the conformity rules and the subsetting rules of both ANSI X3.113-1987 and ECMA-116-1986; and
- (c) States in an informative Annex that programs and implementations that conform to ANSI X3.113-1987 or ECMA-116 conform to ISO Basic.

Adopted Unanimously

Resolution 58: - Subdivision of Project 97.22.10 - Programming Language Ada

ISO/IEC JTC1/SC22 authorizes the subdivision of Project 97/22/10 as follows:

- 97.22.10.01 Ada Language Standardization
- 97.22.10.02 Issues and Questions on the Ada Standard (doc 97/22 N353)
- 97.22.10.03 Uniformity of Ada Implementations (doc 97/22 N354)

Adopted Unanimously

Resolution 59: - NWI-Ada/SQL Language Interface

ISO/IEC JTC1/SC22 instructs its Secretariat to forward document N355, NWI proposal - Ada/SQL Language Interface to the ISO/IEC JTC1 Secretariat for processing, requesting that the project be assigned to SC22. If the project is approved and assigned to SC22, it shall be assigned to WG9 - Ada.

Adopted Unanimously

Resolution 60: - WG11: Binding Techniques for Languages

ISO/IEC JTC1/SC22 thanks Mr. Don Nelson for his work as Interim Convenor in revitalizing WG11, and appoints Mr. Nelson as its convenor.

ISO/IEC JTC1/SC22 requests WG 11 to:

- (a) continue liaison with appropriate working groups in SC21 and SC24 (formerly SC21/WG2)
- (b) develop where necessary and circulate to SC22 working drafts of existing work items, at the earliest possible time in order to encourage broad participation in WG11, and
- (c) prepare and submit to the SC22 Secretariat a list of language bindings that will require SC22 individual language WG attention in the coming 18 months.

Adopted Unanimously

Resolution 61: - Language Bindings

ISO/IEC JTC1/SC22 directs its convenors of SC22 WGs affected by the list of language bindings called for in Resolution 60 requiring SC22 WG attention to:

- (a) consider this list as a priority item and either include language binding work in their respective work programs, or respond to SC22 Secretariat saying why this work would not be appropriate.

- (b) appoint liaison representatives to the appropriate SC21 and SC24 WGs.

Adopted Unanimously

Resolution 62: - Project 97.22.15.02 - Publication of TR9547

ISO/IEC JTC1/SC22 instructs its Secretariat to forward document ISO/TC97/SC22 N408 (SC22/WG12 N121 Rev. 2): Test methods for Programming Language Processors: Guidelines for Their Development and Acceptability, to the ISO Central Secretariat for publication as Technical Report (type 3), assuming the DTR's approval by JTC1.

Adopted Unanimously

Resolution 63: - Project 97.22.15.01 - Registration of Proposed DTR

ISO/IEC JTC1/SC22 instructs its Secretariat to circulate document ISO/TC97/SC22 N409 (SC22/WG12 N133 Rev. 1): Guidelines for the Preparation of Conformity Clauses in Programming language Standards as Proposed DTR (type 3).

Adopted Unanimously

Resolution 64: - Project 97.22.15.01 (WG12)

ISO/IEC JTC1/SC22 instructs its Secretariat to request JTC1 Secretariat to delete from TC97 Project 97.22.15, the sub-project 97.22.15.01 - part 2 - "Guidelines for the preparation of programming language processor specifications which facilitate testing".

Adopted Unanimously

Resolution 65: - Convenor of WG14, Programming Language C

ISO/IEC JTC1/SC22 acknowledges the work done by WG14 and thanks the previous convenor, Mr. Hersee and the interim convenor, Mr. Plauger, for their efforts in developing a working draft and synchronizing the "C" standardization work between ANSI and ISO.

ISO/IEC JTC1/SC22 appoints Mr. Plauger as convenor of WG14.

Adopted Unanimously

Resolution 66: - Establishment of Working Group 15 - POSIX

ISO/IEC JTC1/SC22 establishes Working Group 15 - POSIX with the following term of reference:

- Coordinate the content of an International Standard on the Portable Operating System Interface (POSIX).

Mr. Jim Isaak is appointed convenor, with the U.S. Member Body providing secretarial support and project editor.

Project 97/22/21 is assigned to WG15. The scope for this project shall be:

The Standard will define a standard operating system interface and environment based on the UNIX Operating System (UNIX is a registered trademark of AT&T in the United States and other countries). The standard will describe the external characteristics and facilities of the operating system with emphasis on those functions and facilities that are needed in a variety of commercial applications. Initially the main focus of the standard will be on the C language interface to the operating system to support application portability at source level.

This standard will consist of several parts.

The first part will provide a functional definition of the interface. Following parts will provide the bindings of the interface to different programming languages.

The initial version of Part I may heavily use C language features. These will be replaced by more abstract, programming language independent specifications in a later version.

Part II will consist of the description of the C language binding. Subsequent Parts may be added as a result of letter ballots indicating the need for other language bindings.

Adopted Unanimously

Resolution 67: - POSIX Administration

ISO/IEC JTC1/SC22:

- (a) Requests the U.S. Member Body to forward to the SC22 Secretariat for circulation within SC22 for comment and recommendation, working drafts of the International Standards relating to POSIX.
- (b) Requests the U.S. Member Body to make all appropriate efforts to see that the draft proposed standards reflect the consensus of SC22 comments.
- (c) Requests the U.S. Member Body, at the appropriate time, to provide the SC22 Secretariat with the draft proposed standards for circulation to the member bodies of SC22 for letter ballot.

- (d) Instructs the Working Group on POSIX to review and comment on the content of the working drafts of the standards provided by the U.S. Member Body; and coordinate the comments received during the SC22 ballot period(s).

Adopted Unanimously

Resolution 68: - Draft Proposal-POSIX

ISO/IEC JTC1/SC22:

- (a) Requests the U.S. Member Body to forward document IEEE P1003.1, Draft 12, Standard for a Portable Operating System Interface for Computer Environment (POSIX), to the SC22 Secretariat as soon as it is available.
- (b) Instructs the SC22 Secretariat to forward that document to ISO/CS for registration as a Draft Proposal and to SC22 member bodies for comments.
- (c) Requests all SC22 Member Bodies to begin immediate work on this project by considering document TC97/SC22 N363, and sending comments to the Working Group convenor (Jim Isaak, Digital ZK03, 110 Spit Brook Road, Nashua, NH 03062-2698 USA).

Adopted Unanimously

Resolution 69: - Establishment of Working Group 16 on LISP

ISO/IEC JTC1/SC22 establishes Working Group 16 - LISP with the following terms of reference:

- to coordinate the content of an International Standard for LISP.

SC22 assigns Work Item 97.22.22³ to this working group, and refers WG16 to documents ISO/TC97/SC22 N266 and ISO/IEC JTC1 N16 for resolution of comments accompanying the letter ballot of the NWI proposal.

SC22 appoints Mr. Christian Queinnec as the Convenor of WG16, with AFNOR providing secretarial support, and ANSI providing Mr. Richard Gabriel and Mr. William Klinger as the project editors.

Resolution 70: - Establishment of WG17 on Prolog

ISO/IEC JTC1/SC22 establishes Working Group 17 - Prolog with the following terms of reference:

- to coordinate the content of an International Standard for Prolog
- to resolve the comments received in the ballot (ISO/IEC JTC1 N15)

The following project is assigned to WG17: 97.22.22

Mr. Roger Scowen is appointed convenor and project editor with BSI providing secretarial support.

Adopted Unanimously

Resolution 71: - Call for Members of SC22 Working Groups

In accordance with document TC97/SC22 N296 and N310, ISO/IEC JTC1/SC22 invites its Member Bodies to nominate experts to the following Working Groups established at the SC22 Plenary meeting in Washington, September, 1987:

- WG15 - POSIX
- WG16 - LISP
- WG17 - Prolog

Adopted Unanimously

Resolution 72: - Form Interface Management System (FIMS)

ISO/IEC JTC1/SC22 thanks the U.S. Member Body for the submission at an early stage, of the proposed NWI on Form Interface Management System (document TC97/SC22 N358) and instructs its Secretariat to circulate the proposed NWI for comments and for an SC22 letter ballot.

If the New Work Item Proposal for Form Interface Management System is approved by SC22, the SC22 Secretariat shall forward document 97/22 N358 to the JTC1 Secretariat for processing.

Upon approval of the New Work Item Proposal for Form Interface Management System by JTC1, and its assignment to JTC1/SC22, ISO/IEC JTC1/SC22 shall:

- establish a Working Group for Form Interface Management System with the terms of reference to be to coordinate the content of an International Standard for Form Interface Management System.
- subject to confirmation of this nomination by ANSI, appoint Mr. Dan Frantz as Convenor with ANSI providing secretarial support and project editor.

Adopted Unanimously

Resolution 73: - Administration of Working Group for Form Interface Management System

ISO/IEC JTC1/SC22, subject to approval of the NWI on FIMS and its assignment to SC22:

- (a) Requests ANSI to forward to the SC22 Secretariat for circulation within SC22 for comment and recommendation, working drafts of the International Standard, Form Interface Management System.

- (b) Requests ANSI to make all appropriate efforts to see that the draft proposed standard reflects the consensus of SC22 comments.
- (c) Requests ANSI at the appropriate time to provide the SC22 Secretariat with the draft proposed standard for circulation to the member bodies of SC22 for letter ballot on the DP.
- (d) Instructs the Working Group on Form Interface Management System to review and comment on the content of the working drafts of the standard produced by ANSI; coordinate any contributions made by SC22 member bodies; and coordinate the comments received during the SC22 ballot period(s).
- (e) Instructs this Working Group to establish liaisons with ISO/IEC JTC1/SC18/WG3, Document Architecture; WG5, Content Architecture; WG8, Text Description and Procedural Languages; WG9, User Systems Interface and Symbols, and with the WGs of ISO/TC97/SC21 which deal with Virtual Terminals and Open Distributed Processing.

Adopted Unanimously

Resolution 74: - Liaison to ISO/IEC JTC1/SC21

ISO/IEC JTC1/SC22 accepts the offer of the U.S. Member Body to investigate providing the liaison representative to ISO/IEC JTC1/SC22 - Information Retrieval, Transfer and Management for Open Systems Interconnection (OSI).

Adopted Unanimously

Resolution 75: - Liaison to ISO/IEC JTC1/SC24

ISO/IEC JTC1/SC22 appoints Mr. Jens Kolind (Denmark) as its liaison representative to ISO/IEC JTC1/SC24 - Computer Graphics.

Adopted Unanimously

Resolution 76: - SC22/WG15 Liaison to SC21/WG5

ISO/IEC JTC1/SC22 instructs its WG15 to establish close liaison with the SC21/WG5 concerning OSCRL and consider a joint meeting with the OSCRL Rapporteur Group.

Adopted Unanimously

Resolution 77: - External Liaisons Concern

ISO/IEC JTC1/SC22 reconfirms its wish to have strong external liaisons and expresses its concern that the external liaisons are not working well.

ISO/IEC JTC1/SC22 asks the Chairman and the Secretariat to try to revitalize the appropriate external liaisons, especially those with IFIP and CCITT.

Adopted Unanimously

Resolution 78: - Liaison Concerning FIMS

ISO/IEC JTC1/SC22 instructs its Secretariat to forward, for information, Resolutions 72 and 73 and document 97/22 N358 to TC97/SC18 - Text and Office Systems and TC97/SC21 - Information Retrieval, Transfer and Management for OSI.

Adopted Unanimously

Resolution 79: - Contributions to Special Working Group (SWG) on Formal Description Techniques (FDT)

ISO/IEC JTC1/SC22 instructs its secretariat to forward document SC22 N249, A View to Formal Semantics, to the JTC1 secretariat as a contribution from SC22 to the discussion of the SWG on FDTs.

Adopted Unanimously

Resolution 80: - SC22 Delegate to SWG on FDT

ISO/IEC JTC1/SC22 endorses the appointment of Mr. Brian Meek (U.K.) as its delegate to the TC97 SWG on FDTs, and urges its member bodies and WG convenors to send to Mr. Meek (Computer Centre, King's College London, Strand London. WC2R 2L2, UK), by 1987 October 20, any comments or suggestions on the use of FDTs in language standards which they would wish him to take into account.

Adopted Unanimously

Resolution 81: - National Standards

ISO/IEC JTC1/SC22 instructs its secretariat to solicit information from SC22 Member Bodies about existing and planned national standards related to SC22's area of work which have not been submitted for international standardization. The SC22 secretariat is further requested to compile and maintain this list of national standards projects and to circulate it to SC22 Member Bodies once a year.

Adopted Unanimously

Resolution 82: - International/National Synchronization of Standardization

ISO/IEC JTC1/22 directs its Secretariat to seek approval from the ISO/IEC JTC1 Secretariat for the following procedure for DP - registration; and upon approval to put it into effect.

"When a member body is responsible for the development of a language standard, ISO/IEC JTC1/SC22 directs its secretariat to submit to ISO Central Secretariat a draft language standard for DP registration if:

- (a) previous draft(s) have been circulated to SC22 Member Bodies;
- (b) the SC22 language working group has recommended DP registration;
and
- (c) the responsible member body has requested DP registration."

Adopted Unanimously

Resolution 83: - Coordination with IEEE

ISO/IEC JTC1/SC22 requests the U.S. Member Body to inform the IEEE Standards Board of the formation of WG15, and the resolutions of this meeting associated with it (e.g. terms of reference, scope, administration and instructions). In line with the principles of operation of SC22 (SC22 N 168R), SC22 wishes to ensure that the outcome of this project will result in a single worldwide POSIX standard.

Adopted Unanimously

Resolution 84: - Special NWI Submission to JTC1 by Member Bodies

ISO/IEC JTC1/SC22 recommends that in the case where a draft proposal for a New Work Item has gained substantial support at an SC22 AG meeting, that:

1. the member body initiating the NWI be encouraged to send the proposal directly to JTC1 for approval; and
2. at the same time, the SC22 Secretariat issue a ballot, conditional on the approval of the NWI, for the administration of the NWI, assignment to an existing WG or creation of a new WG, designation of a convenor and secretariat, etc.

Where there is no clear evidence of such widespread support, SC22 recommends the use of an SC22 consultative ballot for approving the sending of a NWI proposal to JTC1.

Adopted Unanimously

Resolution 85: - Character Handling in Programming Languages

ISO/IEC JTC1/SC22 requests its member bodies to communicate to the SC22 Secretariat their requirements for character handling in programming languages, including multi-octet character sets.

ISO/IEC JTC1/SC22 instructs convenors of its WGs to report to the next SC22 AG meeting the extent to which their work items could meet those requirements.

Adopted Unanimously

Resolution 86: - Multi-Octet Character Sets

ISO/IEC JTC1/SC22 instructs its Working Groups to ensure that future standards shall contain proper provisions for handling non-English, single-octet, and multi-octet character sets.

Adopted Unanimously

Resolution 87: - Programming Language - SIMULA

Noting Sweden's intention to submit SIMULA for International Standardization as expressed in the Swedish National Activity Report, ISO/IEC JTC1/SC22 suggests that Sweden forward the Swedish National Standard on the Programming Language SIMULA to the ISO Central Secretariat for processing according to the "fast track" procedure.

Adopted Unanimously

Resolution 88: - Convenor for Working Group 8 - Basic

ISO/IEC JTC1/SC22 appoints Mr. Thomas E. Kurtz as convenor of its WG8, Basic with ANSI providing secretarial support and project editor.

Adopted Unanimously

Resolution 89: - Electronic Mail

ISO/IEC JTC1/SC22 thanks Gerhard Schmitt for his work in implementing recommendation 2 of document N277 by developing electronic mail links with a number of members of the SC22 Advisory Group and working groups of SC22.

ISO/IEC JTC1/SC22 invites Gerhard Schmitt to continue this work, and encourages all delegates to the second SC22 plenary who have access to electronic mail to supply their electronic mail address.

Adopted Unanimously

Resolution 90: - OSCRL, SSI and Related Matters

ISO/IEC JTC1/SC22 instructs the SC22 Secretariat to inform JTC1 of SC22's willingness to consider any language-related existing or new work items (including OSCRL) arising from JTC1's reconsideration of OSCRL, SSI, and related matters.

Adopted Unanimously

Resolution 91: - POSIX Trademark

ISO/IEC JTC1/SC22 thanks IEEE for relinquishing all claims to the trademark for POSIX.

Adopted Unanimously

Resolution 92: - Schedule of Project Stages

ISO/IEC JTC1/SC22 draws the attention of its working group convenors to document TC97/SC22 N404, Synchronization of ISO/ANSI Activities. ISO/IEC JTC1/SC22 directs its convenors:

- (a) to develop in consultation with the related Member Body activity, a schedule of project stages that reflects both national and international processing, and the coordination of these procedures;
- (b) to monitor the accomplishment of these project stages and make suitable reports to SC22; and
- (c) to provide these schedules of project stages to the SC22 Secretariat for distribution to its member bodies.

Adopted Unanimously

Resolution 93: - Appreciation - Convenors

ISO/IEC JTC1/SC22 thanks the convenors and project editors of its working and ad hoc groups for their dedicated work thereby facilitating the advancement of the projects assigned to SC22.

Adopted Unanimously

Resolution 94: - Appreciation - Mr. Holka

ISO/IEC JTC1/SC22 wishes to express its gratitude to Mr. Holka for a very interesting and thorough presentation of the problems encountered with character sets and the use of standardized character sets produced by ISO/IEC JTC1/SC22.

Adopted Unanimously

Resolution 95: - Appreciation - Dr. Klensin

ISO/IEC JTC1/SC22 expresses its appreciation to Dr. John Klensin for his excellent work as the PL/I Project Editor. He has clarified the particularly difficult situation regarding PL/I and provided SC22 with a viable solution to the problems identified by the commentators such that the document can proceed to registration as a Draft Proposal.

Resolution 96: - Appreciation - Japan

ISO/IEC JTC1/SC22 wishes to express its gratitude to the Japanese Member Body for kindly accepting to host the next Advisory Group meeting in Tokyo in October 1988.

Adopted Unanimously

Resolution 97: - Appreciation

ISO/IEC JTC1/SC22 thanks:

- * CBEMA, particularly Catherine Kachurik, for the excellent organization of the second plenary of SC22.
- * Ms. Monique Harway and Ms. Hélène Bruns-Thepaut for their excellent interpretation.
- * Mr. Glenn Sorensen for keeping up with those delegates wishing to use the microphone.
- * Gwendy Phillips, Patti Steiner, Caressa Williams, and Katrina Gray for their help to the sub-committee in some unusual office hours.
- * Mr. Keith Brannon of ISO Central Secretariat for his assistance and his excellent presentation to project editors.
- * Mr. Robert Kearney for the excellent way he has conducted this SC22 meeting and kept all delegations in order.
- * Mr. Joe Cote for the excellent secretariat support.
- * Mr. François Genuys, Mr. Robert Follett, Mr. Brian Meek and Mr. Johann van Wingen for ensuring that the Ad Hoc groups completed their reports in a timely manner.
- * Mr. Anton Bickle for his dedicated leadership of the drafting committee and to all members of the drafting committee for their contributions:
 - Mr. Jens Kolind
 - Mr. Quyen Tran
 - Ms. Paula Schwarz
 - Mr. Joe Cote
 - Mr. Roger Scowen
- * CMEMA, and Accredited Standards Committee X3, for the excellent reception.

Adopted Unanimously