



ISO/IEC JTC1/SC22
Languages
Secretariat: CANADA (SCC)

ISO/IEC JTC1/SC22

SEPTEMBER 1988

N549

TITLE: SC22 Secretariat Report to the SC22AG meeting
to be held on 1988-10-17/19, Tokyo, Japan

SOURCE: Secretariat ISO/JTC1/SC22

WORK ITEM: all SC22 work items

STATUS: New

N551

CROSS REFERENCE:

Secretariat Report

DOCUMENT TYPE:

For information to SC22 Member Bodies.

ACTION:

Address reply to: ISO/IEC JTC1/SC22 Secretariat
J.L. Côté, 140 O'Connor St., 10th Floor
Ottawa, Ont., Canada K1A 0R5
Telephone: (613)957-2496 Telex: 053-3336

I. SC22 SECRETARIAT REPORT

Title of Subcommittee: Languages

Area of Work:

1. Standardization of languages in the field of information processing systems and applications excluding specialized languages that have been explicitly assigned to the programme of work of another subcommittee or technical committee.
2. In the area of information processing, standardization of cross-language facilities.

Chairman:

Mr. R. Kearney
Vice President, Systems
Bell Canada Enterprises
Suite 6900, P.O. Box 188
100 King Street West
Toronto, Ontario, Canada
M5X 1A6
Telephone: (416)581-3822
Electronic Mail - ENVOY 100: I.D. - R. Kearney
Facsimile: (416)595-1678

Secretariat:

SCC (Mr. Joseph Cote)
Treasury Board Canada
140 O'Connor Street
10th Floor
Ottawa, Ontario, Canada
K1A 0R5
Telephone: (613)957-2496
Telex: 053-3336
Electronic Mail: ENVOY 100: I.D. - Cote.JL
Facsimile: (613)996-2690

Membership:

'P' Members: Austria, Belgium, Canada, China, Czechoslovakia, Denmark, Finland, France, Germany F.R., Hungary, Iran, Italy, Japan, Netherlands, UK, USA, USSR.

'O' Members: Australia, Brazil, Germany DR, Iceland, India, Korea, Norway, Poland, Portugal, Singapour, Switzerland, Turkey, Thailand, Yugoslavia.

Internal Liaisons:

- ISO/TC8/SC-5 - Computer Applications in Shipbuilding
- ISO/TC68 - Banking
- ISO/JTC1/SC2 - Character Sets and Coding
- ISO/JTC1/SC7 - Software Development and System Documentation
- ISO/JTC1/SC15 - Labelling and File Structure
- ISO/JTC1/SC21 - Information Retrieval Transfer and Management for Open Systems Interconnection
- ISO/JTC1/SC18 - Text Preparation and Interchange
- ISO/TC184/SC3 - Programming Languages

External Liaisons
- Category A:

- CCE - Commission of the European Communities
- CCITT - International Telegraph and Telephone Consultative Committee
- CIRP - International Institution for Production Engineering Research
- ECMA - European Computer Manufacturers Association
- EWICS - European Workshop on Industrial Computer Systems
- IFIP - International Federation for Information Processing
- ITU - International Telecommunications Union.

Last Meeting:

- Plenary - 1987-09-8/11, Paris, France
- AG Meeting - 1986-11-11/13 Vienna Austria

Next Meeting:

- AG Meeting - 1988-10-17/19 Tokyo, Japan
- Heads of Delegations and Convenors - fall 1989 Berlin, Germany FR
- Plenary - fall 1989 Berlin, Germany FR

WORKING GROUP 2

PASCAL

Terms of Reference: Standardization of: Programming Language -
PASCAL
Programming Language - Extended PASCAL

Convenor: Dr. Brian Wichmann
National Physical Laboratory
Division of Information Technology and
Computing
Teddington
Middlesex TW11 DLW
United Kingdom
Telephone: 01 629-9000

Secretariat: BSI

Work Item Assigned: JTC1.22.8 (1978): ISO 7185 - Specification
for the Computer Programming Language PASCAL.
JTC1.22.19 - Specification for the Computer
Programming Language - Extended PASCAL

Status: JTC1.22.8 - ISO 7185 was published on 1983-12-15.
JTC1.22.19 - DP 10206 is currently out for ballot
within SC22, closing 1988-12-30.

Last Meeting: 1988-09-12/16 - Framingham, Massachusetts

Next Meeting: 1988-11-15/18 - Munich, Germany, FR

WORKING GROUP 3

APL

Terms of Reference: Standardization of Programming Language - APL

Convenor: Dr. L. Dickey
Dept. of Pure Mathematics
University of Waterloo
Waterloo, Ontario, Canada
N2L 3G1
Telephone: (519)885-1211 EXT 3727

Secretariat: SCC

Work Item Assigned: JTC1.22.9 (1978): Programming Language APL
JTC1.22.24 :Programming Language-Extended APL

Liaison:

Status: JTC1.22.9 The final text of DIS 8485 is expected to be forwarded to ISO/CS for processing as an International Standard, by 1988-10-28.

The french version of this standard has been submitted to ISO/CS, by AFNOR.

Last Meeting: 1988-04-25/29 -La Hulpe, Belgium

Next Meeting: 1988-10-01/04 -London, UK

WORKING GROUP 4

COBOL

Terms of Reference: Coordinate the contents of the draft revised International Standard on COBOL

Convenor: Ms. Mabel Vickers
National Bureau of Standards
Building 225 - Room A265
Washington, D.C. 20234
Telephone: (301)975-3277
Telex: 89-8493

Secretariat: ANSI

Work Item Assigned: JTC1.22.1.1 (1972) - Review of Programming Language COBOL - ISO 1989

JTC1.22.1.3 (1985) - Language Extensions for COBOL - ISO 1989.

JTC1.22.1.4 Corrections Addendum to ISO 1989-1985 COBOL.

Liaison: ANSC X3J4 (COBOL) ISO 1989 COBOL

Status: JTC1.22.01.01 - ISO 1989-1985 was published in December 1985.

JTC1.22.01.03 - The final version of the Proposed Draft Addendum 1-Intrinsic Functions to ISO 1989-1985 (document N485) has been submitted to JTC1 for processing as a Draft Addendum (DAD).

97.22.01.04 - SC22/WG4 has been authorized to develop a Corrections Addendum to ISO 1989-1985 in August 1987. A first draft is expected in early 1989.

Last Meeting: 1988-07-19 -Windsor,UK

Next Meeting:

WORKING GROUP 5

FORTRAN

Terms of Reference: Coordinate the content of the revisions of the International Standard for FORTRAN.

Convenor: Ms. Jeanne Martin
Lawrence Livermore National Laboratory
L - 300
Livermore, California 94550
Telephone: 415-422-3753

Secretariat: ANSI

Work Item Assigned: JTC1.22.2 (1972) - Programming Language FORTRAN (Revision of ISO 1539-1980).

Liaison:

Status: JTC1.22.02

- ISO 1539 (Programming Language - FORTRAN) was published in 1980.
- DP 1539-Programming Language Fortran was registered on 1987-10-07 and circulated to SC22 for voting by 1988-01-29.
- The comments received on DP1539 are contained in document N464.

Last Meeting: 1988-09-19/23 - Paris, France

Next Meeting:

WORKING GROUP 8

BASIC

Terms of Reference: To review the results of voting and to prepare further drafts, as necessary (of proposals for Minimal BASIC).
Standardization of Programming Language BASIC.

Convenor: Mr.T. Kurtz
Computer & Information Science
Nathan Smith Buildings
Handover NH
USA 03755

Secretariat: ANSI

Work Item Assigned: JTC1.22.7 (1976): ISO 6373 - Minimal BASIC
JTC1.22.11 (1981): BASIC

Liaison: ANSC X3J2 (BASIC)
ECMA/TC21 (BASIC)
EWICS TC2 (BASIC)

Status: JTC1.22.07 - Minimal Basic - ISO 6373 was published on 1984-03-15.
JTC1.22.11 - At the second Plenary Meeting of SC22, on 1987-09-8/11, SC22 instructed its WG8 to prepare, for registration as a DP, a single document for an ISO Basic Standard. (ref. Resolution 57 in N406)

Last Meeting: 1988-03-01 - Paris, France

Next Meeting:

WORKING GROUP 9

ADA

Terms of Reference: Standardization of Programming Language ADA.

Convenor: Ms. V. Castor
Ada Joint Program Office
Room C-107
1211 S-Fern Street
Arlington, Va.
USA 22202
Telephone: (202)697-3749

Secretariat: ANSI

Work Item Assigned: JTC1.22.10.01 : Ada Programming Language
JTC1.22.10.02 :Standardization of Ada Numeric
Packages
JTC1.22.25 :Technical Report on Issues and
Questions on the Ada Standard
JTC1.22.26 :Technical Report on Uniformity of
Ada Implementations

Liaison: ADA Board; ADA Tec; AVO

Status: JTC1.22.10.01 ISO 8652-1987 - Programming Language Ada was
published in March 1987.

JTC1.22.10.02 This project was assigned to WG9 in September 1989

JTC1.22.25 This project was approved by JTC1 and assigned to
WG9 in September 1989.

JTC1.22.26 This project was approved by JTC1 and assigned to
WG9 in September 1989.

Last Meeting: 1988-06-10 Munich, Germany FR

Next Meeting: 1988-10 Pittsburg, USA

WORKING GROUP 11

BINDING TECHNIQUES FOR PROGRAMMING LANGUAGES

- Terms of Reference:
- to study binding issues between programming languages and the abstract facilities with which they interface or interact;
 - to serve as the SC22 focal point for consolidating SC22 comments on SC21 bindings.
- Convenor: Mr. D. Nelson
Tandem Computers Inc.
10555 Ridgeview Court
Cupertino, CA
USA 95014
Telephone: (408)996-6340
- Secretariat: ANSI
- Work Item Assigned: JTC1.22.14 (1984): Binding Techniques for Programming Languages
- JTC1.22.17: Specification of a Set of Common Language - Independent Data Types
- JTC1.22.16: Specification for a Model for Common Language - Independent Procedure Calling Mechanisms.
- Status:
- Projects 97.22.16 and 97.22.17 were assigned to SC22 for development on 1986.02.07 (docs. 97/22 N187 & N188).
- JTC1.22.14
- A proposal to register N466-Guidelines For Bindings-as a Proposed Draft Technical Report (type 3) was circulated to SC22 on 1988-02-17. The summary of voting is contained in N507. WG11 has been requested to review the comment and prepare a revised version which will then be registered as a Proposed DTR, type 3.
- Last Meeting: 1988-04-19/21 - Thornaby, UK
- Next Meeting: 1988-10-04/06 - Amsterdam, Netherlands

WORKING GROUP 12

LANGUAGE CONFORMITY AND VALIDATION

- Terms of Reference:
- to study the issues concerning conformity and validation for programming language standards;
 - to develop guidelines in conformity and/or validation matters for use by working groups preparing programming language standards;
 - to report to SC22 issues resolved or unresolved in the work of the group.

Convenor: Dr. J. Sidi
AFNOR
Tour Europe - Cedex 7
F92080 Paris La Defense
France
Telephone: 1-33-1 42915960

Secretariat:

AFNOR

Work Item Assigned: JTC1.22.15.01: Conformity Requirement and Testing

JTC1.22.15.02: Test Methods for languages Processors - Guidelines for their Development and Acceptability.

Liaison:

Status: JTC1.22.15.01 - The final version of the Proposed DTR on: Guidelines For The Preparation Of Conformity Clauses in Programming Languages(N501) was sent to JTC1 for processing as a DTR, type 3 in May 1988.

JTC1.22.15.02 - ISO TR 9547 published on 1988-04-01.

Last Meeting: 1988-04-06/08 - Delft, Netherlands

Next Meeting:

WORKING GROUP 13

Modula 2

Terms of Reference: - to coordinate the content of an
International Standard for Modula 2.

Convenor: Dr. R. Henry
Computer Science Group
Nottingham Park
Nottingham, U.K.
NG7 2RD
Telephone: 060-250-6101 Ext. 2855

Secretariat: BSI

Work Item Assigned: JTC1.22.18 - Programming Language Modula 2.

Status:

Last Meeting: 1988-08-08/12 - Oregon, USA

Next Meeting:

WORKING GROUP 14

C

Terms of Reference: - To coordinate the content of an International Standard for C.

Convenor: Mr. P.J. Plauger
Whitesmiths Ltd
59 Tower Road
Westford Massachussetts
USA 01886
Telephone: (617)692-7800

Secretariat: ANSI

Work Item Assigned: JTC1.22.20 - Programming Language C

Status: JTC1.22.20 - DP 9989 was registered in August 1987 and circulated to SC22 for voting by 1988-01-22

- The summary of voting is contained in N463. WG14 was instructed to review the comments and to prepare a revised version of DP 9989.
- A second ballot on DP 9989 is expected for late fall 1988.

Last Meeting: 1988-06-13/14 - London,UK

Next Meeting:

WORKING GROUP 15

POSIX

Terms of Reference: To coordinate the content of an International Standard on Portable Operating System Interface (POSIX)

Convenor: Mr. J. Isaak
Digital Equipment Corporation
MK02-2B05
110 Spit Brook Rd
Nashua NH
USA 03062
Tel: (603)881-0480

Secretariat: ANSI

Work Item assigned: JTC1.22.21: Portable Operating System Interface for Computer Environments-POSIX

Status: JTC1.22.21

- DP9945 was registered in October 1987 and circulated to SC22 for voting by 1988-02-26.
- The summary of voting is contained in N473. WG15 has been instructed to review the comments and to make a recommendation on further processing of DP 9945.
- A recommendation from WG15 is expected by November 1988.

Last meeting: 1988-03-02/04 London, UK

Next meeting: 1988-10-20/21 Tokyo, Japan

WORKING GROUP 16

Lisp

Terms of Reference: To coordinate the content of an International Standard for Lisp

Convenor: Mr C. Queinnec
Universite Pierre et Marie Curie
4 Place Jussieu
75252 Paris Cedex 5
France
Tel:33 1 43 36 2525 ext 5128

Secretariat: AFNOR

Work Item assigned: JTC1.22.23 - Specification for the Computer Program .n Language Lisp

Status:

Last meeting: 1988-07-28/29 Utah, USA

Next meeting: 1988-10 Belgium

WORKING GROUP 17

Prolog

Terms of Reference: To coordinate the content of an International Standard for Prolog

To resolve the comments received in the ballot (ref JTC1 N15)

Convenor: Mr R. Scowen
National Physical Laboratory
Teddington Middlesex
TW11 0LW
Tel:44-1-943-6956

Secretariat: BSI

Work Item assigned: JTC1.22.22 - Specification for the Computer Programming Language Prolog

Status:

Last meeting: 1988-03-28/30 Oxford, UK

Next meeting: 1988-10-03/05 Grassau, Germany FR

WORKING GROUP 18

FIMS

Terms of Reference: To coordinate the content of an International Standard for Forms Interface Management System

Convenor(interim): Mr D Frantz
DEC,ZK02-2/M28
110 Spit Brook Rd
Nashua NH
USA 03062
Tel:(603)881-2272

Secretariat: ANSI

Work Item assigned: JTC1.22.27 - Forms Interface Management System
(FIMS)

Status: JTC1.22.27 : -The project was approved by JTC1 and assigned to SC22 in September 1988.
-In accordance with Resolution 72 in N406,the SC22 Secretariat established WG18-FIMS.
-WG18 has been instructed to proceed with the development of this project.
-SC22 Member Bodies have been invited to nominate experts to this Working Group (ref N543).

Last meeting:

Next meeting:

OTHER PROJECTS

97.22.5 (1971): Programming Language PL/I (Revision of ISO 6160-1979)

97.22.6 (1977): Programming Language PL/I - General Purpose Subset.

Project Editor: Dr. J. Klensin
Massachusetts Institute of Technology
Room 4-209
77 Massachusetts Ave.
Cambridge, Massachusetts
USA 02139
Telephone: (617)253-1355

Status: 97.22.05 ISO 6160-1979 has been reaffirmed.

97.22.06 DP 6522 was registered in November 1987 and circulated to SC22 for voting by 1988-02-26.

The summary of voting is contained in N479. The Project Editor has reviewed the comments and, his response and his recommendation for further processing is contained in N552.

The SC22 Secretariat will forward DP6522 to ISO/CS for DIS processing.

97.22.13 (1984) - Guidelines for the Preparation of Programming Language Standards.

Project Editor: Mr. B. Meek
King's College London (KQC)
Computer Centre (Strand Campus)
Strand, London
WC2R 2LS
U.K. 01-937-5411 ext 432
Telephone: 01-836-5454

Status: - The Proposed Draft Technical Report on Guidelines for the Preparation of Programming Language Standards was circulated on 1988-03-18 to SC22 for voting by 1988-06-2. The summary of voting is contained in N 515.

The Project Editor has been requested to review the comments and to make a recommendation on further processing of this project.

- A document containing the project editor's proposed responses to the comments was circulated to SC22 for comments (N533).

NEW WORK ITEM PROPOSALS

VDM: Following a SC22 approval of a proposal for a NWI on Vienna Development Method Specification (N486), the proposal was submitted to JTC1 for confirmation.
The JTC1 ballot closes on 1988-10-06.

Ada/SQL Binding: The project was approved by JTC1, but not yet assigned, pending discussion between SC22 and SC21 (ref N548).

WG4-Cobol has requested a project subdivision to include the following projects:

- Addendum to ISO 1989-1985 for a Cobol Interface to FIMS (N537)
- Addendum to ISO 1989-1985 for MOCS support in Cobol (N538)
- Revision of ISO 1989-1985 Cobol (N539)

WG15-POSIX has requested a project subdivision to include the following projects (N545):

1. Extensions to 9945
2. Shell and Utilities
3. Verification Test Methods
4. Security
5. POSIX/OSI Networking
6. POSIX System Administration