



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

ISO/IEC JTC1/SC22

MAY 1989

N645

TITLE: JTC1/SC22 Project Information

SOURCE: Secretariat ISO/IEC JTC1/SC22

WORK ITEM: all SC22 work items

STATUS: New

CROSS REFERENCE: N551

DOCUMENT TYPE: Project Information

ACTION: For information to SC22 Member Bodies.
SC22 WG Convenors are requested to review
this document and to submit updating
information to the SC22 Secretariat
by 1989-08-01.

Address reply to: ISO/IEC JTC1/SC22 Secretariat
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ISO/IEC JTC1/SC22

PROJECT INFORMATION

1. Designation and Title of Subcommittee

SC22, 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 program of work of another Sub-Committee or Technical Committee.
2. In the area of information processing, standardization of cross-language facilities.

2. Secretariat

SCC

3. Chairman

Kearney, R.
Vice-President - Information Products and Services
Bell Canada Enterprises
Bell Trinity Square
10th floor (South Tower)
483 Bay St.
Toronto, Ontario
M5G 2E1

Telephone: (416) 581-3822

4. Working Groups

WG2: PASCAL

Secretariat: BSI

Convenor: Wichmann, B.
National Physical Laboratory
Division of Information Technology and
Computing
Teddington
Middlesex TW11 OLW
United Kingdom

Telephone: +44 1977 3222

WG3: APL

Secretariat: SCC

Convenor: Dickey, L.
Dept. of Pure Mathematics
University of Waterloo
Waterloo, Ontario
Canada N2L 3G1

Telephone: (519) 888-4076
Telex 069-55259

WG4: COBOL

Secretariat: ANSI

Convenor: Willis, L.V.
Pyramid Technology Corp.
1295 Charleston Rd.
P.O. Box 7295
Mountain View Ca.
USA 94039-7295

Telephone: (415) 965-7200 ext 2320
Fax (415) 967-4344

WG5: FORTRAN

Secretariat ANSI

Convenor: Martin J.
Lawrence Livermore National Laboratory
L-300
Livermore, California 94550

Telephone: (415) 422-3753

WG8: BASIC
Secretariat ANSI
Convenor: Kurtz, T
Computer & Information Science
Nathan Smith Building
Handover N.H.
USA 03755

Telephone:

WG9: Ada
Secretariat: ANSI
Convenor: Mathis R.
9712 Cera Lane Drive
Fairfax Virginia
USA 22032

Telephone: (703) 359-0203

WG11: Binding Techniques for Languages

Secretariat: ANSI

Convenor: Nelson, D.
Tandem Computer Inc.
MS 100-05
10555 Ridge View Court
Cupertino California
USA 95014

Telephone: (408) 996-6340

WG12: Language Conformity and Validation

Secretariat: AFNOR

Convenor: Sidi, J.
AFNOR
Tour Europe -Cedex 7
F-92080
Paris La Defense
France

Telephone: 33-1-42915960

WG13: Modula 2
Secretariat: BSI
Convenor: Henry, R.
Computer Science Group
Nottingham University
University Park
Nottingham NG7 2RD
UK
Telephone: 06 02 506101 ext. 2855

WG14: C
Secretariat: ANSI
Convenor: Plauger P.J.
Intermetrics
733 Concord Ave.
Cambridge Massachussetts
USA 02138
Telephone: (617) 692-7800

WG15: POSIX
Secretariat: ANSI
Convenor: Isaak J.
Digital Equipment Corporation
MK02-2B05
Continental Blvd
Merrimack, New Hampshire
USA 03054
Telephone: (603) 881-0480

WG16: Lisp
Secretariat: AFNOR
Convenor: Queinnec C.
LIX
Ecole Polytechnique
F-91128 Palaiseau Cedex
France
Telephone: +33 1 60 19 4000 ext 2421

WG17: Prolog

Secretariat: BSI

Convenor: Scowen R.
National Physical Laboratory
Teddington Middlesex
TW11 OLW
UK

Telephone: 44-1-943-6956

WG18: Forms Interface Management System(FIMS)

Secretariat: ANSI

Convenor: Frantz D.
DEC, ZK02-2/M28
110 Spit Brook Rd
Nashua, NH
USA 03062

Telephone: (603) 881-2272

Project Editors:

Dr. J. Klensin - projects 97-22-05, 97-22-06 (PL/I)
Telephone: (617) 253-1355

Mr. B. Meek - project 97-22-13 (Guidelines for the
Preparation of Programming Language Standards)
Telephone: 44-1-937-5411 Ext 432

5. Projects

Note: For project stage definition, please refer to the list attached as Annex 1.

Work Item 22.01.01 - Review of Programming Language COBOL
(ISO 1989-1978)

| Stage | Target Date | Actual Date |
|-------|-------------|-------------|
| 03.01 | | 85-01-10 |
| 03.02 | | 85-07-11 |
| 03.05 | | 85-08 |
| 03.06 | 85-11 | 85-10-11 |
| 04.00 | 85-11 | 85-11-27 |
| 05.00 | 86-05 | 85-12 |

Working Group: 4

Secretariat: ANSI

Convenor: L. Willis

Current Reference Documents:

Current ISO/CS Registered Document: ISO 1989-1985

Work Item 22.01.03 - Language Extensions for COBOL - ISO
1989 Addendum 1 - Intrinsic Functions

| Stage | Target Date | Actual Date |
|-------|-------------|-------------|
| 00.03 | | 85-01-15 |
| 00.04 | | 85-03-22 |
| 01.00 | | 85-04-12 |
| 02.01 | 87-06 | 87-08-20 |
| 02.02 | 87-06-19 | 87-11-27 |
| 02.03 | | 88-04-15 |
| 02.04 | 88-07-22 | 88-07-22 |
| 04.00 | 90-01 | |
| 05.00 | 90-03 | |

Working Group: 4

Secretariat: ANSI

Convenor: L. Willis

Current Reference Documents: N607

Current ISO/CS Registered Document:

Work Item 22.01.04 -Correction Addendum to ISO 1989-1985
Cobol

| Stage | Target Date | Actual Date |
|-------|-------------|-------------|
| 01.01 | | 87-09 |
| 01.02 | 89-01 | |

Working Group: 4

Secretariat: ANSI

Convenor: L. Willis

Current Reference Documents:

Current ISO/CS registered Document:

Work Item 22.02 - Programming Language FORTRAN (Revision
of ISO 1539-1980)

| Stage | Target Date | Actual Date |
|-------|-------------|-------------|
| 01.01 | 78-01 | |
| 01.02 | 86-05 | 78-01 |
| 01-03 | 86-08 | 86-05 |
| 01-04 | 86-12 | 86-05 |
| 01-05 | 87-03 | |
| 02.00 | 87-04 | 88-10-01 |
| 02.01 | 87-04 | 87-10-15 |
| 02.02 | 87-07 | 88-01-29 |
| 02.08 | 88-09-15 | |
| 03.00 | 89-03 | |
| 03.01 | 89-04 | |
| 03.02 | 89-10 | |
| 04.00 | 90-02 | |
| 05.00 | 90-06 | |

Working Group: 5

Secretariat: ANSI

Convenor: J. Martin

Current Reference Documents: N423

Current ISO/CS Registered Document: ISO DP1539

Work Item 22.05 - Programming Language - PL/I (Revision of ISO 6160-1979)

| Stage | Target Date | Actual Date |
|-------|-------------|-------------|
| 05.01 | 87-01-19 | |
| 05.02 | 87-05-01 | |
| 05.03 | | 87-06-01 |

Project Editor: J. Klensin

Current Reference Documents: N291,N328

Current ISO/CS Registered Document: ISO 6160-1979

Work Item 22.06 - Programming Languages - PL/I -General Purpose Subset (Revision of ISO 6522-1985)

| Stage | Target Date | Actual Date |
|-------|-------------|-------------|
| 01.04 | 87-01-19 | 87-01-16 |
| 01.05 | 87-05-01 | 87-05-01 |
| 02.00 | 87-07-01 | 87-09-15 |
| 02.01 | 87-08-01 | 87-11-20 |
| 02.02 | 87-11-15 | 88-02-26 |
| 03.00 | 88-02-15 | 88-11 |
| 03.01 | 89-05-01 | |
| 03.02 | 89-12-01 | |
| 04.00 | 90-02-15 | |
| 05.00 | 90-04-15 | |

Project Editor: J. Klensin

Current Reference Documents: N432

Current ISO/CS Registered Document: ISO DP6522

Work Item 22.07 - Programming Language - Minimal BASIC

| Stage | Target Date | Actual Date |
|-------|-------------|-------------|
| 05.00 | | 84-03-15 |

Working Group: 8

Secretariat: ANSI

Convenor: T. Kurtz

Current Reference Documents:

Current ISO/CS Registered Document: ISO 6373-1984

Work Item 22.08 - Programming Language - PASCAL

| Stage | Target Date | Actual Date |
|-------|-------------|-------------|
| 05.00 | | 83-12-15 |

Working Group: 2

Secretariat: BSI

Convenor: B. Wichmann

Current Reference Documents:

Current ISO/CS Registered Document: ISO 7185-1983

Work Item 22.09 - Programming Languages - APL

| Stage | Target Date | Actual Date |
|-------|-------------|-------------|
| 02.01 | | 83-11-28 |
| 02.02 | | 84-02-27 |
| 02.03 | | 85-05-15 |
| 02.04 | | 85-08-15 |
| 02.07 | 85-08-30 | 85-10-09 |
| 02.08 | 86-03 | 86-05-30 |
| 03.00 | 86-06 | 86-06-27 |
| 03.01 | | 86-10-23 |
| 03.02 | 87-04-23 | 87-04-23 |
| 03.05 | 87-05-01 | 87-05-15 |
| 03.06 | 87-08-15 | |
| 04.00 | 87-08-28 | |
| 05.00 | 87-10-15 | |
| 05.01 | 88-03-01 | |
| 05.03 | 88-12-31 | |

Working Group: 3

Secretariat: SCC

Convenor: L. Dickey

Current Reference Documents: N334

Current ISO/CS Registered Document: DIS 8485

Work Item 22.10 - Programming Language - Ada

| Stage | Target Date | Actual Date |
|-------|-------------|-------------|
| 02.01 | | 85-01-15 |
| 02.02 | | 85-04-15 |
| 02.07 | | 85-04-29 |
| 02.08 | | 85-05-28 |
| 03.00 | | 85-08-30 |
| 03.01 | 85-10 | 86-01-23 |
| 03.02 | 86-09-23 | 86-09-23 |
| 03.05 | 86-10-30 | 86-10-01 |
| 03.06 | 86-12-01 | 86-12-12 |
| 04.00 | 87-05-01 | 86-12-12 |
| 05.00 | 87-07-01 | 87-06-15 |

Working Group: 9

Secretariat: ANSI

Convenor: R. Mathis

Current Reference Documents: N238

Current ISO/CS Registered Document: ISO 8652

Work Item 22.11 - Programming Language - BASIC

| Stage | Target Date | Actual Date |
|-------|-------------|-------------|
| 02.00 | 87-10 | 88-11-15 |
| 02.01 | | 89-01-12 |
| 02.02 | 89-04-20 | |
| 03.00 | 89-09-01 | |
| 04.00 | 90-06 | |
| 05.00 | 90-09 | |

Working Group: 8

Secretariat: ANSI

Convenor: T. Kurtz

Current Reference Documents: N597

Current ISO/CS Registered Document: ISO DP 10279

Work Item 22.13 - Guidelines for the Preparation of
Programming Language Standards

| Stage | Target Date | Actual Date |
|-------|-------------|-------------|
| 00.05 | | |
| 00.06 | | 84-02-13 |
| 01.00 | | 84-05-07 |
| 01.04 | | 86-12-19 |
| 01.05 | 87-04-03 | 87-04-03 |
| 06.00 | | 88-03-18 |
| 06.01 | 88-06-29 | 88-06-29 |
| 06.02 | 88-09-15 | |
| 06.04 | 89-05-01 | |
| 06.09 | 89-08-15 | |

Current Reference Documents: N478

Current ISO/CS Registered Document:

Work Item 22.14 - Binding Techniques for Programming
Languages

| Stage | Target Date | Actual Date |
|-------|-------------|-------------|
| 00.05 | | 84-02-13 |
| 00.06 | | 84-05-07 |
| 01.00 | | 84-08 |
| 01.02 | 86-05-15 | 86-11-01 |
| 01.03 | 87-01-30 | 87-01-30 |
| 06.00 | 88-09-01 | |
| 06.09 | 89-12 | |

Working Group: 11

Secretariat: ANSI

Convenor: D. Nelson

Current Reference Documents: N466

Current ISO/CS Registered Document:

Work Item 22.15.01 - Conformity Requirements and Testing:
 Guidelines for the preparation of conformity clauses in
 programming language standards.

| Stage | Target Date | Actual Date |
|-------|-------------|-------------|
| 00.05 | | 85-04-10 |
| 00.06 | | 85-07-31 |
| 01.00 | 85-08 | 85-08-19 |
| 01.01 | 86-06 | 86-01 |
| 01.04 | 87-05 | 87-05-22 |
| 01.05 | 87-08-28 | |
| 06.00 | 87-12 | 87-10-07 |
| 06.01 | 87-12 | 88-01-22 |
| 06.03 | 88-05 | 88-07-01 |
| 06.09 | 89-09 | |

Working Group: 12

Secretariat: AFNOR

Convenor: J. Sidi

Current Reference document: N624

Current ISO/CS Registered Document: DTR 10034

Work Item 22.15.02 - Test methods for programming
 language processors: Guidelines for their development and
 their acceptability.

| Stage | Target Date | Actual Date |
|-------|-------------|-------------|
| 00.05 | | 85-04-10 |
| 00.06 | | 85-07-31 |
| 01.00 | 85-08 | 85-08-19 |
| 01.04 | 86-12-19 | 86-12-19 |
| 01.05 | 87-04-03 | 87-04-03 |
| 06.02 | 87-05-26 | 87-05-26 |
| 06.03 | 87-05-28 | 87-06-04 |
| 06.04 | 87-08-28 | 87-09-04 |
| 06.09 | 88-01-15 | 88-04-01 |

Working Group: 12

Secretariat: AFNOR

Convenor: J. Sidi

Current Reference Documents: N333

Current ISO/CS Registered Document: ISO/TR9547

Work Item 22.18 - Specification for Computer Programming Language - Modula 2

| Stage | Target Date | Actual Date |
|-------|-------------|-------------|
| 00.03 | | 1985-07-15 |
| 00.04 | | 1985-10-15 |
| 00.05 | | 1986-01-07 |
| 00.06 | 86-04-18 | 1986-04-18 |
| 01.00 | 86-06-01 | 1986-04-23 |

Working Group: 13

Secretariat: BSI

Convenor: R. Henry

Current Reference Documents: NO76, N116, N204 97 N1602

Current ISO/CS Registered Document:

Work Item 22.19 - Extended PASCAL Specification for the Computer Programming Language

| Stage | Target Date | Actual Date |
|-------|-------------|-------------|
| 00.03 | | 85-08-16 |
| 00.04 | 85-10-18 | 85-10-18 |
| 00.05 | 85-11-15 | 86-01-07 |
| 00.06 | 86-01-15 | 86-04-18 |
| 01.00 | 86-06-01 | 86-04-23 |
| 01.04 | 86-12-30 | |
| 01.05 | 87-02-13 | 86-11-06 |
| 02.00 | 88-03-01 | 88-09-12 |
| 03.00 | 89-02-01 | |
| 04.00 | 89-10-15 | |
| 05.00 | 90-02-15 | |

Working Group: 2

Convenor: B. Wichmann

Current Reference Documents: N534

Current ISO/CS Registered Document: DP10206

Work Item 22.20 - Specification for the Programming
Language C

| Stage | Target Date | Actual Date |
|-------|-------------|-------------|
| 00.05 | | 86-01-17 |
| 00.06 | 86-04-18 | 86-04-18 |
| 01.00 | 86-06-01 | 86-04-23 |
| 01.02 | 86-10-15 | 86-10-15 |
| 01.05 | 87-02-13 | 87-02-13 |
| 02.00 | 87-03-01 | 87-08 |
| 02.01 | 87-03-30 | 87-10-07 |
| 02.02 | 87-06-30 | 88-01-22 |
| 02.03 | | 89-03-03 |
| 02.04 | 89-06-30 | |
| 03.00 | 89-12-01 | |
| 04.00 | 90-07-15 | |
| 05.00 | 90-09-15 | |

Working Group: 14

Secretariat: ANSI

Convenor: P.J. Plauger

Current Reference Documents: N619

Current ISO/CS Registered Document: ISO DP 9899

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

| Stage | Target Date | Actual Date |
|-------|-------------|-------------|
| 01.00 | | 87-04 |
| 01.02 | | 87-07 |
| 02.01 | | 87-11-13 |
| 02.02 | | 88-02-26 |
| 03.01 | | 89-03-02 |
| 03.02 | 89-09-02 | |
| 04.00 | 90-01-15 | |
| 05.00 | 90-04-15 | |

Working Group: 15

Secretariat: ANSI

Convenor: J. Isaak

Current Reference Documents: N426

Current ISO/CS Registered Document: ISO DIS9945

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

| Stage | Target Date | Actual Date |
|-------|-------------|-------------|
| 01.00 | | 87-09 |

Working Group: 17

Secretariat: BSI

Convenor: R. Scowen

Current Reference Documents:

Current ISO/CS Registered Document:

Work Item: 22.23 - Specification for the Computer
Programming Language - Lisp

| Stage | Target Date | Actual Date |
|-------|-------------|-------------|
| 01.00 | | 87-09 |

Working Group: 16

Secretariat: AFNOR

Convenor: C. Queinnec

Current Reference Document:

Current ISO/CS Registered Document:

Work Item: 22.24 - Specification for the Computer
Programming Language - Extended APL

| Stage | Target Date | Actual Date |
|-------|-------------|-------------|
| 01.00 | | 87-09 |

Working Group: 3

Secretariat: SCC

Convenor: L. Dickey

Current Reference Document:

Current ISO/CS Registered Document:

Work Item 22.XX - Ada/SQL Language Interface

| Stage | Target Date | Actual Date |
|-------|-------------|-------------|
| 00.05 | 88-02-15 | |
| 01.00 | | 88-06-29 |

Current Reference Document: N548

Work Item 22.XX - Programming Language MUMPS

| Stage | Target Date | Actual Date |
|-------|-------------|-------------|
| 00.05 | | |

Current Reference Document: N636

Work Item 22.XX - Programming Language C ++

| Stage | Target Date | Actual Date |
|-------|-------------|-------------|
| 00.05 | 89-09-30 | |
| 01.00 | 90-03 | |

Current Reference Document: N639

Mtg. Schedule

| | | |
|---------------------------|-------------|---------------------|
| WG2-Pascal | 89-03-06/10 | London UK |
| WG2-Pascal | 89-09-15 | St Paul, USA |
| WG13-Modula 2 | 89-07-10/14 | Austria |
| WG8-Basic | 89-06-27 | USA |
| WG11-Binding | 89-04-25/27 | Lowell, USA |
| WG11-Binding | 89-10 | London, UK |
| WG15-POSIX | 89-05-01/03 | Ottawa, Canada |
| WG15-POSIX | 89-10 | Brussels, Belgium |
| WG17-Prolog | 89-04-17/20 | Paris, France |
| WG17-Prolog | Fall/89 | Ottawa, Canada |
| SC22 Plenary/HOD | 89-09-25/29 | Berlin, Germany FR |
| WG16-Lisp | 89-03-30/31 | Fairfax, USA |
| WG14-C | 89-04-10/11 | Seattle, USA |
| WG9-Ada | 89-06-16 | Madrid, Spain |
| WG5-Fortran | 89-07-10/14 | Ispra, Italy |
| Joint SC2, SC22, SC21/WG3 | 89-04-26/28 | Geneva, Switzerland |



ISO/TC97/SC22
Languages
Secretariat: CANADA (SCC)

ANNEX 1 TO
JTC1/SC22
N467

PROJECT STAGES

| | | | |
|-------|--|-------|---|
| 00.01 | Potential work item document review initiated | 03.04 | Second DIS ballot closes |
| 00.02 | Potential work item document review closes | 03.05 | DIS voting results sent to TC SEC by ISO/CS |
| 00.03 | NWI ballot initiated within SC | 03.06 | Revised DIS text and disposition of comments report available |
| 00.04 | NWI ballot within SC closes | 04.00 | Final DIS text and final report submitted to ISO/CS |
| 00.05 | NWI ballot initiated within TC | 04.01 | Final DIS text submitted to ISO Council for acceptance |
| 00.06 | NWI ballot within TC closes | 04.02 | Review of ISO Council comments on DIS initiated |
| 00.07 | NWI proposal returned to submitter for further definition | 04.03 | DIS accepted by ISO Council for publication |
| 00.08 | NWI proposal rejected | 05.00 | IS published |
| 00.09 | NWI reconsideration ballot initiated within TC | 05.01 | 5-year review ballot initiated |
| 00.10 | NWI reconsideration ballot within TC closes | 05.02 | 5-year review ballot closes |
| 01.00 | NWI accepted by TC and added to the programme of work | 05.03 | IS reaffirmed |
| 01.01 | PD consideration initiated | 05.04 | IS withdrawn |
| 01.02 | WD comment period initiated within SC | 05.05 | IS referred to committee for revision |
| 01.03 | WD comment period within SC closes | 06.00 | Proposed DTR ballot initiated within SC |
| 01.04 | WD ballot initiated within SC | 06.01 | Proposed DTR ballot within SC closes |
| 01.05 | WD ballot within SC closes | 06.02 | DTR registered at ISO/CS |
| 02.00 | DP registered at ISO/CS | 06.03 | DTR ballot initiated within TC |
| 02.01 | First DP ballot initiated | 06.04 | DTR ballot within TC closes |
| 02.02 | First DP ballot closes | 06.05 | DTR text submitted to ISO/CS |
| 02.03 | Second DP ballot initiated | 06.06 | DTR text submitted to ISO Council for acceptance |
| 02.04 | Second DP ballot closes | 06.07 | Review of ISO Council comments on DTR initiated |
| 02.05 | Third DP ballot initiated | 06.08 | DTR accepted by ISO Council for publication |
| 02.06 | Third DP ballot closes | 06.09 | TR published |
| 02.07 | DP voting summary issues | 06.10 | TR review ballot initiated |
| 02.08 | Revised DP text and disposition of comments report available | 06.11 | TR review ballot closes |
| 02.09 | DP cancelled, project review initiated | 06.12 | TR reaffirmed |
| 03.00 | DIS text and explanatory report submitted to ISO/CS | 06.13 | TR withdrawn |
| 03.01 | First DIS ballot initiated | 06.14 | TR referred to committee for revision |
| 03.02 | First DIS ballot closes | | |
| 03.03 | Second DIS ballot initiated | | |

Address reply to: ISO/TC97/SC22 Secretariat
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