



ISO / IEC JTC1 / SC22
Programming languages, their environments and system software interfaces
Secretariat: CANADA (SCC)

**ISO/IEC JTC1/SC22
N 1530**

DECEMBER 1993

TITLE: JTC1/SC22 Secretariat's Report to the JTC1 Plenary,
to be held in Washington D.C. USA, 1994-02-01/04

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WORK ITEM: all SC22 projects

STATUS: New

CROSS REFERENCE: N/A

DOCUMENT TYPE: Secretariat Report

ACTION: For information to SC22 Member Bodies.

SC22 Secretariat's Report

PART I: ADMINISTRATIVE

1.1 Title of SC SC22, Programming languages, their environments and system software interfaces

1.2 Chairman Robert Follett (USA) (10/91 N1071)

1.3 Secretariat Canada, Standards Council of Canada

2. Area of Work Standardization of programming languages, their environments and systems software interfaces such as:
- specification techniques; and
- common facilities and interfaces.

Excluded: specialized languages or environments assigned to the program of work of another Subcommittee or Technical Committee.

3. Membership

"P" Members

Australia, Austria, Belgium, Brazil, Bulgaria, Canada, China, Denmark, Finland, France, Germany, Greece, Italy, Japan, Netherlands, New Zealand, Slovenia, Sweden, Switzerland, Ukraine, UK, USA

"O" Members

Argentina, Cuba, Czech/Slovak R e p , Hungary, Iceland, India, Korea Rep, Poland, Portugal, Romania, Russian Fed., Singapore, Turkey, Thailand, Yugoslavia

ISO Liaisons

JTC1/SC1, SC2, SC7, SC18, SC21, SC24, SC26, SC27

External Category A Liaisons

CCE, ITU, ECMA

4. Working Groups

- 4.1 WG2
Convenor
ToR
Pascal
D. Joslin (UK) (1996 - N1496)
Development of ISO standards for
Programming Language Pascal and Extended
Pascal
- 4.2 WG3
Convenor
ToR
APL
L. Dickey (Canada) (1991 - N1053)
Development of ISO standards for
Programming Language APL and Extended APL
- 4.3 WG4
Convenor
ToR
COBOL
A. Wallace (USA) (1991 - N1053)
Coordinate the development of ISO
standards for Programming Language COBOL
Coordinate the development of draft
amendments for language extensions to ISO
1989
- 4.4 WG5
Convenor
ToR
Fortran
J. Martin (USA) (1991 - N1053)
Coordinate the revision of ISO 1539 -
Programming Language Fortran
- 4.5 WG8
Convenor
ToR
Basic
T. Kurtz (USA) (1991 - N1053)
Development of ISO standards for
Programming Language Basic and Full Basic
- 4.6 WG9
Convenor
ToR
Ada
R. Mathis (USA) (1996 - N1496)
Development of ISO standards for
Programming Language Ada
- 4.7 WG11
Convenor
ToR
Binding Techniques
W. Wakker (Netherlands) (1996 - N1496)
Study binding issues between programming
languages and the abstract facilities with
which they interface or interact
Serve as the SC22 focal point for
consolidating SC22 comments on SC21
bindings
- 4.8 WG13
Convenor
ToR
Modula 2
M. Woodman (UK) (1991 - N1053)
Coordinate the content of an ISO standard

for Modula 2

- 4.9 WG14
Convenor
ToR
C
P.J. Plauger (USA) (1991 - N1053)
Coordinate the content of an ISO standard
for C
- 4.10 WG15
Convenor
ToR
POSIX
J. Isaak (USA) (1991 - N1053)
Coordinate the content of ISO standards
on the Portable Operating System Interface
- 4.11 WG16
Convenor
ToR
Lisp
C. Queinnec (France) (1991 - N1053)
Coordinate the content of an ISO standard
for Lisp
- 4.12 WG17
Convenor
ToR
Prolog
R. Scowen (UK) (1991 - N1053)
Coordinate the content of an ISO standard
for Prolog
- 4.13 WG18
Convenor
ToR
FIMS
D. Frantz (USA) (1991 - N1053)
Coordinate the content of an ISO standard
for Forms Interface Management System
- 4.14 WG19
Convenor
ToR
VDM
D. Andrews (UK) (1996 - N1496)
Coordinate the content of an ISO standard
for Vienna Development Method -
Specification Language
- 4.15 WG20
Convenor
ToR
Internationalization
A. Winkler (USA) (1996 - N1496)
Identify elements relevant to the work of
SC22 that may be affected by differences
in language, culture, customs and habits;
for these elements, develop standards that
enable applications to be portable across
differing cultural practices;
develop a Technical Report that describes
a framework for nations to provide those
elements
- 4.16 WG21
Convenor
ToR
C++
S. Harbison (USA) (1996 - N1496)
Coordinate the development of an ISO
standard for programming language C++

Part II:

MEETINGS

1.1 Last Plenary

Paris, France

1993-09-20/24

1.2 Documents

Resolutions - N1496

Minutes - N1494

Agenda - N1425

Secretariat Report (Proj document) - N1530

2. WGs do not meet in conjunction with Plenary meeting

3.1 Future Plenary

The Hague, Netherlands

1994-09-19/23

3.2 Future WG mtgs

WG2 - Pascal

94-04-18/22

Vancouver Canada

WG4 - Cobol

94-04

France (tentative)

94-10

San Fransisco USA

WG5 - Fortran

WG11 - Bindings

WG14 - C

WG15 - POSIX

WG17 - Prolog

WG20

SC22 Plenary
(tentative)

1995

UK or USA

PART III:

PERSONNEL

1. Secretariat

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2. Chairman

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3. Working Groups

WG2: Pascal

Secretariat: BSI

Convenor: Joslin, D.A. (96 Plenary)
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WG3: APL

Secretariat: SCC

Convenor: Dickey, L. (94 Plenary)
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Secretariat: ANSI
Convenor: Wallace, A. (94 Plenary)
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WG5: FORTRAN
Secretariat: ANSI
Convenor: Martin J. (94 Plenary)
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Secretariat: ANSI
Convenor: Kurtz, T. (94 Plenary)
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WG9: Ada
Secretariat: ANSI
Convenor: Mathis R. (96 Plenary)
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WG11: Binding Techniques for Languages
Secretariat: NNI
Convenor: Wakker, W. (96 Plenary)
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WG13: Modula 2
Secretariat: BSI
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Secretariat: ANSI
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WG15: POSIX
Secretariat: ANSI
Convenor: Isaak J. (94 Plenary)
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WG16: Lisp
Secretariat: AFNOR
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Secretariat: BSI
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WG18: Forms Interface Management System (FIMS)
Secretariat: ANSI
Convenor: Frantz D. (94 Plenary)
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WG19: Vienna Development Method- Syntactic
Language
Secretariat: BSI
Convenor: Andrews D. (96 Plenary)
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WG20: Internationalization
Secretariat: ANSI
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WG21: C++

Secretariat: ANSI

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NOTE: Date in bracket represents date at which Convenor appointment ends - Date due for Convenor's re-appointment.

22.10.04	T. Sando	Boeing Defense & Space Group P.O. Box 3707, MS 4C-63 Seattle Wa 98124-2207 Tel. (206) 662-0187 Fax: (206) 662-0115 email: sando@mirage.boing.com
22.10.05	J. Squire	106 Regency Cir Linthicum MD 21090 Tel (410) 765-3748 Fax: (410) 765-4684 email: squire@tron.bwi.wec.com
22.11	T. Kurtz	True BASIC 12 Commerce Avenue West Lebanon NH USA 03784 (603) 298-8517
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22.14	D. Nelson	tel: (408) 285-5203 fax: (408) 285-5245
22.16	K. Edwards	IBM Corp. - D48/D333 555 Bailey Ave. P.O. Box 49023 San Jose Ca. USA 95161 (408) 463-3095
22.17	E. Barkmeyer	NIST Bldg 220 Room A127 Gaithersburg, Md USA 20899 (301) 975-3528
22.18	R. Henry	Computer Science Group Nottingham Park Nottingham NG7 2RD UK +44-06-02-506101 Ext 2855
22.19	B. Wichmann	National Physical Laboratory Div of Info Tech. & Comp

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PART IV: PROGRAMME OF WORK (December/93)

Project/Ass. date	Title	Ref No	W	Prof Editor	WD	CD	DIS	IS	Note
22.01.03 07/87	Addendum 1 to ISO 1989- Intrinsic Functions	AD 1/1989:1985	04	Convenor				11/91	published
22.01.04 07/87	Correction Addendum to ISO 1989	ISO 1989:1985/ DAM 2	04	W. Klein USA		06/92	01/93	02/94	N1435 Smry DIS ballot
22.01.05 01/89	Addendum to ISO 1989 - FIMS interface	proj withdrawn	04		10/93				N1163 smry ballot for withdrawal
22.01.06 01/89	Addendum to ISO 1989 - MOCS support		04	A. Wallace	01/93				
22.01.07	Revision of ISO 1989:1985		04	D. Nelson - USA	12/94	12/95	12/96	12/97	
22.02.01	Revision of ISO 1539:1991	IS 1539:1991	05	Convenor	04/95	06/95	12/95	11/96	Published N1421-T Cor
22.02.02	Addendum to ISO 1539 - Variable Length Character String Module	DIS 1539-2	05	K. Dassler - Germany	11/91	10/92	10/93	10/94	DIS closing 18 May
10/89									
22.05	Prog Language PL/I	IS 6160:1987	--	J. Klensin - USA					Published.
22.06	Revision of ISO 6522:1985 PL/I General Purpose Subset	IS 6522:1992	--	J. Klensin - USA				09/91 11/92	Published 92/11.
22.08	Prog Language Pascal	IS 7185:1990	02	B. Wichmann - UK					Published.
22.09	Prog Language APL	IS 8485:1989	03	Convenor					Published.
22.10.01	Revision of Ada ISO 8652:1983	CD 8652	09	C. Anderson/S. Taft -	06/93	10/93			N1451-CD 1455-Rule
22.10.02	Ada Numeric Packages	DIS 11430	09	K. Dritz - USA			10/91		N1146 smry DIS
22.10.03	Ada Primitive Functions	DIS 11729	09	Convenor		10/91	08/93		
22.10.04	Ada Complex Functions	CD13813	09	D. Sando - USA		10/93			N1464- CD ballot
22.10.05	Ada Matrix Functions	CD13814	09	J. Squire - USA		10/93			N1465-CD ballot
22.11	Prog Language Full Basic	IS 10279:1991	08	T. Kurtz - USA				09/91	Published.
	Technical Info Bulletin 1	X3.113-1987	08						N1189
22.13 sc5	Guidelines for the Preparation of Prog Language Standards	TR 10176:1991	20					04/91	Published.

Project/Ass. date	Title	Ref No	WG	Proj Editor	WD	CD	DIS	IS	Note
22.14 sc5	Binding Techniques for Prog Languages	TR 10182	11	D. Nelson - USA			03/92	12/92	N1365 final text
22.15.01 08/85	Conformity Requirements & Testing	TR 10034:1990	--	N/A					Published.
22.15.02 08/85	Test Methods for Prog Language Processors	TR 9547:1988	--	N/A					Published.
22.16 04/85	Lang-Independent Procedure Calling Mechanism	CD 13886	11	K. Edwards - USA	12/92	11/93			N1507-CD ballot 1506-resp to cmis
22.17 04/85	Lang-Independent Datatypes	2nd CD 11404	11	E. Barkmeyer USA		2nd 01/93			N1354 smry cd ballot
22.18.01 04/86	Prog Language Modula 2	2nd CD 10514	13	R. Henry - UK		01/93	12/93	12/94	N1398 Disp of cts rpt
22.18.02 01/92	Object-oriented Modula 2		13	Convenor	02/94	12/94			
22.18.03 01/92	Modula 2 binding to POSIX		13	Convenor	02/94	12/94			
22.18.04 01/92	Modula 2 extensions for systems programming		13	Convenor					deferred until .18.02 is further along
22.18.05 01/92	Support for commercial programming in Modula 2		13	Convenor					deferred until .18.02 is further along
22.18.06 01/92	Further support for concurrent programming in Modula 2		13	Convenor					deferred until .18.02 is further along
22.19 04/86	Prog Language Extended Pascal	IS 10206:1991	02	B. Wichmann - UK				04/91	Published.
22.20.01 04/86	Revision of IS9899:1990	IS 9899:1990	14	Convenor					Published.
	9899:1990 Technical Corr 1	N1445	14	Convenor		09/93	04/94		
22.20.02 10/89	Addendum on C Integrity	PDAM-N1443	14	D. Jones - UK	10/92	09/93	03/94		N1397 smry reg vote
22.21.01.01 07/87	POSIX System Interface	IS 9945-1:1990	15	H. Jespersen - USA	12/92			1990	Pub./ Rev. in prog.
22.21.01.02.01	Addendum to ISO 9945-1: Realtime & Extensions	CD9945-1:1990 Amd 1	15	H. Jespersen - USA		07/92			N1314 Disp of comis recd on CD
22.21.01.02.02 09/93	Addendum to ISO 9945-1: Realtime extensions - Threads		15						

Project/Ass. date	Title	Ref No	WG	Proj Editor	WD	CD	DIS	IS	Note
22.21.01.03.01 09/91	Addendum to ISO 9945-1: Dist Services - Transparent File Service		15	H. Jespersen - USA	04/92				
22.21.01.03.02 10/89	Addendum to ISO 9945-1: Dist Services - Remote Procedure Call		15	H. Jespersen - USA					No further action expected
22.21.01.03.03 09/91	Addendum to ISO 9945-1: Dist Services - Protocol Independent Interface		15	H. Jespersen - USA	09/92				
22.21.01.03.04 09/91	Addendum to ISO 9945-1: Dist Services - Name Space & Directory Services		15	H. Jespersen - USA	06/92				
22.21.02.01 10/89	POSIX Shell & Utilities	DJS 9945-2	15	H. Jespersen - USA		12/91	12/92		N1432 Disp cmts rpt merged with proj .21.02.01
22.21.02.02 09/91	Addendum to ISO 9945-2: User Portability Extensions	DIS9945-2 (N1077)	15	H. Jespersen - USA					
22.21.03.01 10/89	POSIX System Administration		15	H. Jespersen - USA					Merged with other projects
22.21.03.02 10/89	POSIX System Administration - Batch Services	WD - N1497	15	H. Jespersen - USA	12/92				
22.21.03.03 09/93	POSIX System Administration - Print Administration		15						
22.21.03.04 09/93	POSIX System Administration - Software Administration		15						
22.21.03.05 09/93	POSIX System Administration - User Administration		15						
22.21.04.01 10/89	POSIX C Binding		15	H. Jespersen - USA	12/92				
22.21.04.02 10/89	POSIX Ada Binding Part 2	N843 N1501	15	H. Jespersen - USA	12/94				N1431- smry vote to fast-track IEEE std
22.21.04.03 10/89	POSIX Fortran Binding		15	H. Jespersen - USA	12/93				
22.22.01 09/87	Prolog General Core	CD13211-1	17	R. Scowen - UK	02/92	03/93	01/94		N1406 smry CD vote
22.22.02 09/91	Prolog Modules		17	K. Dässler- Germany	03/94				>>CD13211-2<<
22.23 09/87	Prog Language Lisp	N1311	16	Convenor	01/93	12/93			N1355 smry reg bal to be no CD13816

Project/Ass. date	Title	Ref No	WG	Proj Editor	WD	CD	DJS	IS	Note
22.24.01 09/87	Prog Language Extended APL	CD13751	03	Convenor	04/92	08/93			N1528 smry of vote
22.25 06/88	Addressing Comments on the Ada Standard (TR)		09	Convenor	05/93				
22.26 06/88	Uniformity of Ada Implementation (TR)		09	D. Emery - USA	03/93				
22.27.01 08/88	Forms Interface Management System (FIMS)	DIS 11730	18	Convenor		10/91	02/93	01/94	N1527 Disp of cmnts
22.27.02 08/92	Addendum to FIMS - COBOL Binding	PDAMI to DIS11730	18	Convenor					N1503-PDAM ballot
22.27.03 08/92	Addendum to FIMS - Intermediate Subset		18	Convenor					
22.27.04 08/92	Addendum to FIMS - Fortran Binding		18						
22.27.05 08/92	Addendum to FIMS - Ada Binding		18						
22.28 04/90	Language Independent Arithmetic	DIS 10967-1	11	M. Payne - USA		2nd 10/92	10/93		N1418 disp of cmnts for CD 10967-1
22.29.01 03/90	Vienna Development Method/Specification Language Part 1: Base language	CD13817-1	19	Convenor	05/92	12/93			N1522 CD ballot
22.29.02 08/92	Vienna Development Method/Specification Language Part 2: Modules		19	Convenor					
22.30.01 04/90	Framework for internationalization for programming languages and their environment	N1415 - WD	20	T.K. Sato - Japan	08/92				1st WD to be no WD 11017 as per ITTF
22.30.02.01 04/90	Functionality for Internationalization of Applications		20	K. Simonsen Denmark					
22.30.02.02 09/93	Functionality for Internationalization of Applications- Ordering of 10646		20	A. Labonté - Canada					
22.31 06/90	Ada/SQL Interface	CD 12227	09	M. Graham - USA		08/92			N1384 disp of cmnts

Project/Ass. date	Title	Ref No	WG	Proj Editor	WD	CD	DIS	IS	Note
22.32 04/91	Prog Language C++	N1385»DIS proc	21	A. Koenig - USA	09/94	02/95			rpt
22.33 04/91	Language Independent Mathematical Procedures	N951	11	M. Payne - USA	10/93	12/94			to be no »» 10967-2
22.34 04/91	Language Independent Complex Arithmetic and Procedures	N952	11	M. Payne - USA	11/94	09/95			to be no 10967-3
22.35 06/91	Ada Extensions and User Run Time Executive Interface	WD 13815 (N1502)	09	D. Chandestrin - Fr	06/93	12/93			to be no CD13815
22.36 12/91	Addendum to ISO 10279 Full Basic: Modules and Single Character Input Enhancement	Amendment 1 to ISO/IEC 10279 (CD processing)	08	Convenor	09/91	02/92	06/93	06/94	N1095= DIS proc
22.37 03/92	Test Methods for Measuring Conformance to POSIX	part 1 - CD13210 part 2 WD-N1417	15	H. Jespersen - USA	07/92	09/92 09/92			N1516-disp of cmts DIS txt sent to ITTF
22.38 03/92	Guide to POSIX Open System Environments	WD-N1499	15	H. Jespersen - USA	03/93				PDTR3 reg ballot
22.39 03/92	Portable Operating System Interface (POSIX)- Part 1: System API Addendum	N1125 smry-NWI	15	H. Jespersen - USA					
22.40 03/92	Portable Operating System Interface (POSIX)- Part 1: System API Addendum for Realtime	N1126 smry-NWI	15	H. Jespersen - USA					
22.41 03/92	Portable Operating System Interface (POSIX)- Part 2: Shell & Utility Addendum	N1127 smry-NWI	15	H. Jespersen - USA					
22.42 03/92	Portable Operating System Interface (POSIX)- Part 1: System API Security Addendum	N1128 smry-NWI	15	H. Jespersen - USA					
22.43 03/92	Portable Operating System Interface (POSIX)- Part 2: Shell & Utility Security Addendum	N1129 smry-NWI	15	H. Jespersen - USA					
22.44 07/92	Programming Language MUMPS	JTC1 N1987 DIS 11756					01/92		IS published 92-12-15.
22.45	Z Specification Language	N1339	19	Convenor					

Project/Ass. date	Title	Ref No	WG	Proj Editor	WD	CD	DIS	IS	Note
03/93		smry-NWI							
22.xx NWI proposal	POSIX Test Methods	N1402							
22.xx NWI proposal	Conformance Testing Ref Model for OSE	N1403							
22.xx NWI proposal	Guidelines for prep of lang-ind service specification	N1376							

