



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

ISO/IEC JTC1/SC22  
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JTC1 Plenary Meeting of July/92

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# SC22 Secretariat's Report to the JTC1 Plenary

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## PART I:

## ADMINISTRATIVE

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

1.2 Chairman (Int.) Robert Follett (USA)

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

Belgium, Brazil, Bulgaria, Canada, China, Czechoslovakia, Denmark, Finland, France, Germany, Iran, Italy, Japan, Netherlands, New Zealand, Romania, Sweden, Switzerland, UK, USA, USSR

### "O" Members

Argentina, Australia, Cuba, Hungary, Iceland, India, Korea, Poland, Portugal, Singapore, Turkey, Thailand, Yugoslavia

### ISO Liaisons

JTC1/SC1, SC2, SC7, SC14, SC18, SC21, SC24, SC26, SC27

### External Category A Liaisons

CCE, ITU, ECMA

## 4. Working Groups

- 4.1 **WG2**  
Convenor  
ToR  
Pascal  
D. Joslin (UK)  
Development of ISO standards for  
Programming Language Pascal and Extended  
Pascal
- 4.2 **WG3**  
Convenor  
ToR  
APL  
L. Dickey (Canada)  
Development of ISO standards for  
Programming Language APL and Extended APL
- 4.3 **WG4**  
Convenor  
ToR  
COBOL  
A. Wallace (USA)  
Coordinate the development of ISO  
standards for Programming Language COBOL  
Coordinate the development of draft  
amendments for language extensions to ISO  
1989  
Coordinate the development of draft  
amendment for a database facility for ISO  
1989
- 4.4 **WG5**  
Convenor  
ToR  
Fortran  
J. Martin (USA)  
Coordinate the revision of ISO 1539 -  
Programming Language Fortran
- 4.5 **WG8**  
Convenor  
ToR  
Basic  
T. Kurtz (USA)  
Development of ISO standards for  
Programming Language Basic and Full Basic
- 4.6 **WG9**  
Convenor  
ToR  
Ada  
R. Mathis (USA)  
Development of ISO standards for  
Programming Language Ada
- 4.7 **WG11**  
Convenor  
ToR  
Binding Techniques  
W. Wakker (Netherlands)  
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  
R. Henry (UK)  
Coordinate the content of an ISO standard  
for Modula 2
- 4.9 WG14  
Convenor  
ToR  
C  
P.J. Plauger (USA)  
Coordinate the content of an ISO standard  
for C
- 4.10 WG15  
Convenor  
ToR  
POSIX  
J. Isaak (USA)  
Coordinate the content of ISO standards  
on the Portable Operating System Interface
- 4.11 WG16  
Convenor  
ToR  
Lisp  
C. Queinnec (France)  
Coordinate the content of an ISO standard  
for Lisp
- 4.12 WG17  
Convenor  
ToR  
Prolog  
R. Scowen (UK)  
Coordinate the content of an ISO standard  
for Prolog
- 4.13 WG18  
Convenor  
ToR  
FIMS  
D. Frantz (USA)  
Coordinate the content of an ISO standard  
for Forms Interface Management System
- 4.14 WG19  
Convenor  
ToR  
VDM  
D. Andrews (UK)  
Coordinate the content of an ISO standard  
for Vienna Development Method -  
Specification Language
- 4.15 WG20  
Convenor  
ToR  
Internationalization  
R. Weaver (USA)  
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 C++  
 Convenor S. Carter (USA)  
 ToR Coordinate the development of an ISO  
 standard for programming language C++

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 Part II:

MEETINGS

1.1 Last Plenary Vienna, Austria  
 1991-09-23/27

1.2 Documents Resolutions - N1053  
 Minutes - N1052  
 Agenda - N1016R  
 Secretariat Report (Proj document) - N1015

2. WGs do not meet in conjunction with Plenary meeting

3.1 Future Plenary Tampere, Finland  
 1992-08-24/28

3.2 Future WG mtgs

WG2 - Pascal	92-05-12/14	Varna, Bulgaria
	92-09-14/18	Andover, MA USA
WG3 - APL	92-06-29/07-03	St Petersburg, USSR (tent)
	92 07-13/17	St Etienne France
WG4 - Cobol (tentative)	91-10-21/25	San Diego, USA
	92-04-06/10	California, USA
WG5 - Fortran	92-07-27/31	Victoria, BC Canada
	1993	Germany
WG9 - Ada	Sept/91	Portsmouth, UK
	91-10-25	San Jose, USA
	92-03-30/04-03	Germany
	92-06-05	Amsterdam, Netherlands
	92-11-20	Orlando, USA
WG11 - Bindings	91-09-16/20	Vienna Austria
WG14 - C	1991-12	Milan, Italy
	1992-05	Salt Lake City USA
WG15 - POSIX	91-11-04/08	Stockholm Sweden
	92-05-04/08	Hamilton New Zealand
	92-09	Denmark
WG17 - Prolog	91-12-02/04	Leuven Belgium
	1992	Tokyo Japan
	1992	Copenhagen Denmark
	1993	Bristol, England
	1993	Germany
WG21 - C++	91-11-10/15	Dallas, USA
SC22 Plenary	92-08-24/28	Tampere Finland
(tentative)	1993	France
"	1994	The Netherlands
"	1995	UK or USA

**PART III:**

**PERSONNEL**

**1. Secretariat**

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**3. Working Groups**

**WG2: Pascal**

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**WG3: APL**

Secretariat: SCC

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 Secretariat: ANSI  
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**WG5:** FORTRAN  
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**WG8:** BASIC  
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 Convenor: Kurtz, T  
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**WG9:** Ada  
 Secretariat: ANSI  
 Convenor: Mathis R.  
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**WG11:** Binding Techniques for Languages  
**Secretariat:** NNI  
**Convenor:** Wakker, W.  
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**WG13:** Modula 2

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**Secretariat:** ANSI

**Convenor:** Plauger P.J.  
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**WG15:** POSIX

**Secretariat:** ANSI

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**WG16:**                   Lisp  
**Secretariat:**       AFNOR  
  
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**WG17:**                   Prolog  
**Secretariat:**       BSI  
  
**Convenor:**           Scowen R.  
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**WG18:**                   Forms Interface Management System (FIMS)  
**Secretariat:**       ANSI  
  
**Convenor:**           Frantz D.  
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                          110 Spit Brook Rd  
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**WG19:**                   Vienna Development Method- Syntactic  
                          Language  
**Secretariat:**       BSI  
  
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22.02.02	L. Schonfelder	University of Liverpool Computer Laboratory Chadwick Tower P.O. Box 147 Liverpool L69 3BX UK	
22.05	J. Klensin	MIT Room N52-457 77 Massachusetts Ave Cambridge Massachusetts USA 02139	(617) 864-3247
22.06	J. Klensin		(617) 864-3247
22.08	B. Wichmann	National Physical Laboratory Div of Info Tech. & Comp Teddington Middlesex TW11 DLW UK	+44-01-977 3222
22.10.01	C. Anderson/ S. Taft	USA	(904) 882-8264
22.10.02	K. Dritz	USA	
22.11	T. Kurtz	Mathematics Dept Dartmouth College 6188 Bradley Hall Hanover NA USA 03755-3551	(603) 646-3047
22.13	B. Meek	King's College London Computer Center Strand London W2C 2LS UK	+44-1-937-5411

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**PART IV: PROGRAMME OF WORK**

Project	Title	Ref No	W	Proj Editor	WD	CD	DIS	IS	Note
22.01.03	Addendum 1 to ISO 1989. Intrinsic Functions	AD 1/1989:1985	04	Convenor				11/91	published
22.01.04	Correction Addendum to ISO 1989	N772	04	Convenor		06/92	06/94		N824 smry of voting CD reg
22.01.05	Addendum to ISO 1989 - FIMS Interface		04	Convenor	10/93				
22.01.06	Addendum to ISO 1989 - MOCS support		04	A. Wallace	01/93				
22.01.07	Revision of ISO 1989:1985		04	Convenor	01/96				
22.02.01	Revision of ISO 1539:1980	IS 1539:1991	05	Convenor					Published
22.02.02	Addendum to ISO 1539 - Variable Length Character String Module	N1060	05	L.Schonfelder UK	11/91	03/92	11/92	09/93	
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	N749		J. Klensin - USA				09/91	IS not yet reached. Copyright issue.
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		09	C. Anderson/S. Talli -	03/92				
22.10.02	Ada Numeric Packages	CD 11430	09	K. Dritz - USA			09/92		N980 smry voting
22.10.03	Ada Primitive Functions	CD 11729	09	Convenor		10/91	09/92		N1105 smry CD vote
22.10.04	Ada Complex Functions		09	Convenor					
22.10.05	Ada Matrix Functions		09	Convenor					
22.11	Prog Language Full Basic	IS 10279:1991	08	T. Kurtz - USA				09/91	Published.
22.13	Guidelines for the Preparation of Prog Language Standards	TR 10176:1991		B. Meek - UK				04/91	Published.

Project	Title	Ref No	WG	Proj Editor	WD	CD	DIS	IS	Note
22.14	Binding Techniques for Prog Languages	PDTR 10182	11	Convenor			03/92	12/92	N1098 (DTR ballot)
22.15.01	Conformity Requirements & Testing	TR 10034:1990	--	N/A					Published.
22.15.02	Test Methods for Prog Language Processors	TR 9547:1988	--	N/A					Published.
22.16	Common Lang-Independent Proc Calling Mechanism	N1082	11	K. Edwards - USA	05/92	11/92			
22.17	Common Lang-Independent Datatypes	CD 11404	11	E. Barkmeyer USA			10/92		N1069 smry of voting
22.18.01	Prog Language Modula 2	CD 10514	13	R. Henry - UK			09/92		
22.18.02	Object-oriented Modula 2		13	Convenor					
22.18.03	Modula 2 binding to POSIX		13	Convenor					
22.18.04	Modula 2 extensions for systems programming		13	Convenor					
22.18.05	Support for commercial programming in Modula 2		13	Convenor					
22.18.06	Further support for concurrent programming in Modula 2		13	Convenor					
22.19	Prog Language Extended Pascal	IS 10206:1990	02	B. Wichmann - UK				04/91	Published.
22.20.01	Prog Language C	IS 9899:1990	14	Convenor					Published.
22.20.02	Addendum on C Integrity		14	D. Jones - UK	12/91	05/92	04/93		
22.21.01.01	POSIX System Interface	IS 9945-1:1990	15	H. Jespersen - USA	12/92				Pub./Rev. in prog.
22.21.01.02	Addendum to ISO 9945-1: Realtime & Extensions	N895	15	H. Jespersen - USA		12/91			N963 smry voting CD reg (PDAD)
22.21.01.03.01	Addendum to ISO 9945-1: Dist Services - Transparent File Service		15	H. Jespersen - USA	04/92				
22.21.01.03.02	Addendum to ISO 9945-1: Dist Services - Remote Procedure Call		15	H. Jespersen - USA					No further action



Project	Title	Ref No	WG	Proj Editor	WD	CD	DIS	IS	Note
22.21.01.03.03	Addendum to ISO 9945-1: Dist Services - Protocol Independent Interface		15	H. Jespersen - USA	09/92				
22.21.01.03.04	Addendum to ISO 9945-1: Dist Services - Name Space & Directory Services		15	H. Jespersen - USA	06/92				
22.21.02.01	POSIX Shell & Utilities	2nd CD 9945-2	15	H. Jespersen - USA		12/91			N1110 smry of voting
22.21.02.02	Addendum to ISO 9945-2: User Portability Extensions	CD9945-2-AMID1 (N1077)	15	H. Jespersen - USA	12/92				N1134 smry of voting
22.21.03.01	POSIX System Administration		15	H. Jespersen - USA					No further action
22.21.03.02	POSIX System Administration - Batch Services		15	H. Jespersen - USA	12/92				
22.21.04.01	POSIX C Binding		15	H. Jespersen - USA	06/94				
22.21.04.02	POSIX Ada Binding	N843	15	H. Jespersen - USA	12/94				
22.21.04.03	POSIX Fortran Binding		15	H. Jespersen - USA					
22.22.01	Prolog Core Services	N1133	17	R. Soowen - UK	02/92				CD reg ballot
22.22.02	Prolog Modules		17	Convenor	02/93				
22.23	Prog Language Lisp		16	Convenor	09/92				
22.24.01	Prog Language Extended APL	N875	03	Convenor	04/92	09/92			N937 smry CD reg
22.25	Addressing Comments on the Ada Standard (TR)		09	Convenor	05/92				
22.26	Uniformity of Ada Implementation (TR)		09	Convenor	05/92				
22.27	Forms Interface Management System (FIMS)	CD 11730	18	Convenor		10/91	08/92		N1104 smry CD vote
22.28	Language Compatible Complex Arithmetic	CD 10967	11	Convenor			10/92		N1010 smry of voting

Project	Title	Rd No	WG	Proj Editor	WD	CD	DIS	IS	Note
22.29	Vienna Development Method/Synactic Language	N783	19	Convenor	05/92				
22.30	Functionality for Internationalization of Applications		20	Convenor	08/92				
22.31	Ada/SQL Interface	N927	09	Convenor		04/92			N980 smry CD reg
22.32	Prog Language C++		21	J. Shopro - USA	06/93				
22.33	Language Compatible Mathematical Procedure	N951	11	M. Payne - USA	12/92	05/93			
22.34	Language Compatible Complex Arithmetic and Procedure	N952	11	M. Payne - USA	12/92	01/94			
22.35	Ada Extensions and User Run Time Executive Interface	N1019	09	Convenor					
22.36	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	09/92	07/93	N1095 ballot
22.37	Test Methods for Measuring Conformance to POSIX	N1123	15	H. Jespersen - USA					
22.38	Guide to POSIX Open System Environments	N1124	15	H. Jespersen - USA					
22.39	Portable Operating System Interface (POSIX)- Part 1: System API Addendum	N1125	15	H. Jespersen - USA					
22.40	Portable Operating System Interface (POSIX)- Part 1: System API Addendum for Realtime	N1126	15	H. Jespersen - USA					
22.41	Portable Operating System Interface (POSIX)- Part 2: Shell & Utility Addendum	N1127	15	H. Jespersen - USA					
22.42	Portable Operating System Interface (POSIX)- Part 1: System API Security Addendum	N1128	15	H. Jespersen - USA					
22.43	Portable Operating System Interface (POSIX)- Part 2: Shell & Utility Security Addendum	N1129	15	H. Jespersen - USA					