

ISO/IEC JTC 1/SC 22

Programming languages, their environments and system software interfaces

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SC 22 Programme of Work

(Note: Bolded reference numbers in the third column indicate an active project.)
2010-06-21

Project	Title	Ref. No.	WG	Proj. Editor	WD	CD	DIS	IS	Note
	Information technology – Vocabulary	ISO/IEC 2382							Under the maintenance of SC 22
22.02.01.01	Programming language Fortran, Part 1 Revision of ISO 1539-1:1997	CD 1539-1	05	Malcolm Cohen UK					COR 1 published (2006-02-15) COR 2 published (2007-01-10) COR 3 published 2008 COR 4 published 2009 N 4319 – Registration and CD ballot N 4405 – SoV on CD Reg/Ballot N 4487 – FCD Ballot N 4509 – SoV on FCD Ballot N 4514 – FDIS text submitted to ITTF on 14 June 2010
22.01.01	Programming language COBOL	CD 1989	04	D. Nelson USA					Published (2002) COR 1 published 2006 COR 2 published 2006 COR 3 published 2009 Under revision N 4315 is Concurrent CD N 4357 is the positive Summary of Voting Revision is under Warning Status at ITTF – will be cancelled on 8 August 2010
10967-1	Information technology – Language independent arithmetic – Part 1: Integer and floating point arithmetic	CD 10967-1	11						Resolution 07-02 approves the revision of this document N 4311 is CD Registration and Approval Ballot N 4369 is the positive Summary of Voting Under Critical Status at ITTF. Will request 2 nd extension at 2010 SC 22 Plenary.

Project	Title	Ref. No.	WG	Proj. Editor	WD	CD	DIS	IS	Note
10967-2	Information technology – Language independent arithmetic – Part 2: Elementary numerical functions	NP 10967-2	11						Resolution 07-02 approves the revision of this document Under Critical Status at ITTF. Will request 2 nd extension at 2010 SC 22 Plenary.
10967-3	Information technology – Language independent arithmetic – Part 3: Complex integer and floating point arithmetic and complex elementary numerical functions	NP 10967-3	11						Resolution 07-02 approves the revision of this document Under Critical Status at ITTF. Will request 2 nd extension at 2010 SC 22 Plenary.
13211	Information technology – Programming languages – Prolog – Part 3: Definite clause grammar rules	PDTR 13211-3	17	Paulo Moura (Portugal ?) , Klaus Däßler (Germany)					N 4049 is NWI, PDTR ballot N 4131 is SOV Per WG Convener, DTR to be submitted by August 2010.
22.32	Programming Language C++ (second edition)	FCD 14882	21	P. Becker USA L. Crowl (Back up)					Published (2003) N 4163 is LB to approve revision N 4175 is SOV (approval) N 4185 is CD Registration ballot N4208 is SOV (passed) N 4512 is FCD ballot – closes 26 July 2010
22.15291	Ada Semantic Interface Specification	CD 15291	09	Greg Gicca & C. Roby ACM SIGAda					Published (1999) Mr. Gicca to be approved as PE at next Plenary. Revision approved in Resolution 06-16 Resolution 07-11 registers this project as PWI N 4456 – CD Registration and Ballot N 4498 – SoV on CD Registration and Ballot
22.24731-2	Extensions to the C Library: Part 2	TR 24731-2	14	John Benito USA					N 4176 is WDTR Registration ballot N 4198 is SOV (passed) JTC 1 N 9593 is DTR ballot N 4491 – SoV on DTR (approved) Final text submitted to ITTF for publication on 2 June 2010.

Project	Title	Ref. No.	WG	Proj. Editor	WD	CD	DIS	IS	Note
22.24733	Extensions for the Programming Language C++ to Support Decimal Floating Point Arithmetic	DTR 24733	21	R. Klarer Canada					N3721 is NWIP N3741 is SOV Registered as a Preliminary Work Item N4416 is the PDTR Ballot N 4429 is SoV for PDTR N 4507 - DTR text JTC 1 N 9966 – DTR Ballot N 4520 – SoV on DTR (approved)
22.24737	C++ Library Extensions (based on ISO/IEC 14882)	PWI 24737	21	M. Austern USA P. Becker (Backup)					N 3776 is NP SOV Resolution 07-11 registers this project as a PWI
22.24772	Avoiding Vulnerabilities in Programming Languages through Language Selection and Use	PDTR 24772	OW GV	J. Benito USA					N3913 is NP ballot N3990 is the SOV Registered as a PDTR by Resolution 07-10 Second PDTR ballot is N 4448, closes 2009-09-23 JTC 1 N 9937 – DTR Ballot N 4510 – SoV on DTR Ballot (approved) N 4521 – Disposition of Cmts N 4522 – Final text submitted to ITTF for publication on 4 June 2010.
22.29113	Further Interoperability of Fortran with C, TR Type 2	PWI 29113	5	B. Long USA					NP SoV is N 4170. Resolution 07-11 registers this project as a PWI
22.29124	Programming language C++ - Special Mathematical Functions	IS 29124	21	TBD					NP SoV is N 4272 CD SoV is N 4430, passed FCD ballot is N 4439, closes on 2009-08-09 N 4483 – SoV on FCD Ballot Final text submitted to ITTF for publication on 18 May 2010 (all positive votes on FCD with only editorial comments).

Published Standards

Project	Title	Ref. No.	WG	Proj. Editor	WD	CD	DIS	IS	Note
22.02.02	Fortran - Part 2: Varying length character strings	IS 1539-2	05	J. Reid UK					Published (2000)
22.02.03	Fortran - Part 3: Conditional compilation	IS 1539-3	05	D. Nagle USA					Published (1999) Corrected and reprinted 2000-12-15
22.9496	Programming Language CHILL (4 th Edition)	IS 9496							Published (2003)
	POSIX	IS 9945	15	A. Josey UK					Published on 2009-09-15
22.20	Programming Language C	IS 9899	14	L. Jones USA N. Stoughton (backup) USA David Keaton (backup) USA					Published 1999) COR 1 published 2001 COR 2 published 2004 COR 3 published 2007
22.05	Programming Language PL/I	IS 6160		J. Klensin USA					Published (1979) Confirmed in 2000 (N3218)
22.06	General Purpose PL/I	IS 6522		J. Klensin USA					Published (1992) Confirmed in 2001 (N3305)
22.08	Programming Language Pascal	IS 7185		T. Hetherington UK					Published (1990) Confirmed in 2000 (N3218)

22.09.01	Programming Language APL	IS 8485	SC 22	L. Dickey Canada					Published (1989)
22.10.01	Ada	IS 8652	09	R. Brukardt Ada-Europe E. Ploedereder Germany					Published (1995) Confirmed in 2000 (N3218) COR 1 published (2001-06-01)
22.10.01.01	Amendments to ISO/IEC 8652:1995	ISO/IEC 8652 AMD 1	09	P. Leroy France R. Brukardt Ada-Europe					Subdivision of project 1.22.10.01 approved per JTC 1 N6567. .Published in 2007
22.15.02	Test Methods for Programming Language Processors	TR 9547							Published (1988)
22.15.01	Guidelines for Preparation of Conformity Clauses	TR 10034							Published (1990)
22.13	Guidelines for the Preparation of Programming Language Standards (Fourth edition)	TR 10176	20	M. Küster Germany					Published (2003) Request to make freely available approved by JTC 1, sent to ITTF for final approval on 2003-09-30.
22.14	Binding Techniques for Prog Languages	TR 10182	11						Published (1993)
22.19	Programming Language Extended Pascal	IS 10206		T. Hetherington UK					Published (1991) Confirmed in 2001 (N3305)
22.11	Programming Language Full Basic Technical Info Bulletin 1	IS 10279		T. Kurtz USA					Published (1991) Confirmed in 2001 (N3305)
22.36	Amendment 1 to ISO 10279:1991 (Programming Language Full Basic Technical Info Bulletin 1)	IS 10279/ Amd. 1							Published (1994)
22.18.01	Programming Language Modula-2 Base language	IS 10514-1	13	C. Pronk Netherlands					Published (1996) Confirmed in 2001 (N3305)

22.18.02	Object-Oriented Extensions to Modula-2	IS 10514-3	13	A. Wiedemann Germany					Published (1998) Confirmed in 2003 (N3659)
22.18.04	Generics in Modula-2	IS 10514-2	13	R. Sutcliffe Canada					Published (1998) Confirmed in 2003 (N3659)
22.28	Language Independent Arithmetic	IS 10967-1	11	K. Karlsson Sweden					Published (1995)
22.33	Elementary Numerical Functions	IS 10967-2	11	K. Karlsson Sweden					Published (2001)
22.34	Complex Floating Point Arithmetic and Complex Elementary Numeric Functions	IS 10967-3	11	K. Karlsson Sweden	(09/99)	(09/00)			Published (2006)
22.30.01	Framework for Internationalization	TR 11017	20						Published (1998) Request to make freely available approved by JTC 1, sent to ITTF for final approval on 2003-09-30.
22.17	Language-Independent Datatypes	IS 11404	11	F. Farance USA					Published (2007)
22.11756	Programming Language MUMPS	IS 11756		K. Schell USA					Published (1999)
22.37	Test Methods for Measuring Conformance to POSIX	IS 13210	15	B. Hedquist USA					Published (1999)
22.22.01	Prolog General Core	IS 13211-1	17	Convenor					Published (1995) Confirmed in 2000 (N3218)
22.13211	Information technology – Programming languages – Prolog – Part 1: General Core, Technical Corrigendum 1	ISO 13211-1 COR 1	17	R. Scowen					DOCR PUBLISHED 19 November 2007
22.22.02	Prolog Modules	IS 13211-2	17	J. Hodgson USA					Published (2000)

22.45	Z Notation	IS 13568	19	I. Toyn UK (Deputy editor: Susan Stepney)					Published (2002)
22.45	Z Notation	IS 13568 DCOR 13568	19	I. Toyn UK					Published July 2007
22.47.1	PCTE, Part 1 PCTE, Part 2 PCTE, Part 3	IS 13719-1 IS 13719-2 IS 13719-3		SC 22 Secretariat					Published (1998) Published (1998) Published (1998) Confirmed in 2003 (N3659)
22.47.5	IDL Binding to PCTE	IS 13719-4		SC 22 Secretariat					Published (1998) Confirmed in 2003 (N3659)
22.24.01	Programming Language Extended APL	IS 13751	SC 22	Convenor					Published (2001)
22.10.04	Ada Complex Functions	IS 13813	09						Published (1998) Confirmed in 2003 (N3659) JTC 1 N 9794 – Default Withdrawal Ballot
22.10.05	Generic Package of Complex Elementary Functions in Ada	IS 13814	09						Published (1998) Confirmed in 2003 (N3659)
22.23	Programming Language Lisp	IS 13816	16	K. Pitman USA					Published 2007
22.29.01	Vienna Development Method/ Specification Language, Part 1: Base Language	IS 13817-1	19	D. Andrews UK					Published (1996) Confirmed in 2001 (N3305)
22.16	Language-Independent Procedure Calling	IS 13886	11						Published (1996) Confirmed in 2001 (N3305) JTC 1 approved per N6491. Request sent to ITTF to make publicly available (awaiting IEC approval) Freely Available
22.46	Guidelines for Preparation of Language Independent Service Specification	TR 14369	11	Convenor					Published (1999)

22.38	Guide to POSIX Open Systems Environments	TR 14252	15						Published (1996) Freely available.
22.14515-1.01	Initial System API	IS 14515-1	15	B. Hedquist USA					Published (2000)
22.14515-1.02	Amendment 1 to IS 14515-1:1996 - Realtime Extensions	IS 14515-1/ FDAM 1	15	B. Hedquist USA	06/96	01/97			Published (2004)
22.14515-2	Shell and Utilities Test Methods (TM for 22.21.02.01 and 21.02.02)	IS 14515-2	15		08/95	03/96	08/97		Published (2004)
22.21.04.02	Ada POSIX – Binding for System API	IS 14519	09	T. Baker USA					Published (2001) Maintenance transferred to WG 9 as of Resolution 06-15
22.30.02.03	Specification Method for Cultural Conventions	TR 14652	20	K. Simonsen Denmark	12/97	12/98 (2nd)			Published (2004)
22.14766	Guide for POSIX National Profiles	TR 14766	15	K. Simonsen Denmark					Published (1997)
22.14977	Syntactic Metalanguage - Extended BNF	IS 14977	19	R. Scowen UK					Published (1996) To be revised per 2001 Systematic Review (n3305) Revision cancelled
22.21.03.04	POSIX System Administration Software Administration	IS 15068-2	15						Published (1999)
22.15145	FORTH Programming Language	IS 15145		J. Rible USA					Published (1997) Confirmed in 2002 (N3462)
22.15287.02	Standardized Application Environment Profile -- Part 2: POSIX Realtime Application Support (AEP)	ISP 15287-2	15	J. Oblinger USA					Published (2000)
22.15851	Communications Protocol - Open Interconnect	IS 15851		K. Schell USA					Published (1999)
22.15852	M Windowing API	IS 15852		K. Schell USA					Published (1998)
22.15942	Guidance for Use of Ada In High Integrity Systems (Type 3 TR)	TR 15942	09	B. Wichmann UK					Published (2000) Freely available on ISO site

22.16262	ECMAScript language specification	IS 16262		M. Cowlishaw ECMA					2 nd edition Published (2002)
22.16509	Year 2000 Terminology	IS 16509		K. Lewis USA					Published (1999)
22.18009	Ada: Conformity Assessment	IS 18009	9	E. Ploedereder Germany					Published (1999)
22.18015	C++ Performance (Type 3 TR)	TR 18015	21	L. Goldthwaite UK D. Vollmann (Backup)					Published in 2006 Freely available via the ITTF website
22.18037	C Extensions to Support Embedded Processors	TR 18037	14	W. Wakker Netherlands Backup PE: J. Benito USA					Published June 2008
22.01.07.01	Object finalization for programming language COBOL (Type 2 TR)	TR 19755	04	W. Takagi Japan					Published (2003)
22.02.01.05	Technical Report of Type 2 on Enhanced Module Facilities in Fortran	TR 19767	05	V. Snyder USA					PUBLISHED 2005 To be included into ISO/IEC new edition of 1539-1 (currently FDIS stage)
22.32.01	Technical Report of Type 2 on C++ Library Extensions (based on ISO/IEC 14882)	TR 19768	21	M. Austern USA P. Becker (backup)					Published (2007)
22.20.01	Extensions for the programming language C to support new data character types (Type 2 TR)	TR 19769	14	Mr. N. Mori Germany John Benito (backup) USA					Published (2004)
22.20970	J-Consortium: JEFF file format specification	IS 20970	TBD	J Consortium					Published (2002)
22.22537	Information technology-ECMAScript for XML (E4X) specification	IS 22537		Jeff Dyer ECMA					Published (2006)

22.23270	C# Language Specification	IS 23270		R. Jaeschke USA				2006	Published (2006) Freely Available via the ITTF website
22.23271	Common Language Infrastructure	IS 23271	TBD	J. Marcey USA					Published (2006) Freely Available via the ITTF website
22.23272	Technical Report on CLI	TR 23272	TBD	J. Marcey USA					Published (2003)
22.23272	ECMA TR/84 ISO/IEC 23272 Common Language Infrastructure (CLI) Technical Report: Information Derived from Partition IV XML File	TR 23272		J. Marcey USA					Published (2006) Freely available via the ITTF website
22.22360	Linux Standard Base Core Specification	IS 23360		N. Stoughton FSG					Published (2006)
22.24715	Technical Report on the Conflicts between the ISO/IEC 9945 (POSIX®) Standard and the Linux Standard Base Specification	TR 24715		A. Josey					Published (2006)
22.01.08	Technical Report on Native COBOL Syntax for XML Support	TR 24716	04	D. Schricker USA					Published (2007)
22.01.09	Technical Report on COBOL Collection Classes	DTR 24717	04	R. Karlin USA					Published (2009)
22.10.06	Technical Report, Guide for the use of the Ada Ravenscar Profile in High-Integrity Systems	TR 24718	9	A. Burns UK					Published (2005)
22.24731-1	Extensions to the C Library: Part 1 Bounds checking interfaces	TR 24731-1	14	J. Benito USA					Published (2007)
22.24732	Extensions for the Programming Language C to Support Decimal Floating Point Arithmetic	24732	14	E. Kwok Canada P.J. Plauger (Backup) USA					Published (2009)
22.24747	Type 2 TR on Extensions for the Standard Library of the Programming Language C to Support Mathematical Special Functions	FCD 24747	14	P.J. Plauger USA J. Benito, backup, USA					Published (2009)

22.25436	Eiffel Analysis, Design and Programming Language	IS 25436		R. Jaeschke USA					Published (2006) Freely available via the ITTF website
22.25438	Common Language Infrastructure (CLI): TR Common Generics	TR 25438		J. Marcey USA					Published (2006) Freely available via the ITTF website
22.15287	International Standardized Profiles (Umbrella Project)		15						

Stabilized Standards

Project	Title	Ref. No.	WG	Proj. Editor	WD	CD	DIS	IS	Note
	ALGOL 60	ISO 1538		J.W. van Wingen Netherlands					Withdrawn in 1989 Made stabilized standard in 2003

Recently Transferred Projects

Project	Title	Ref. No.	WG	Proj. Editor	WD	CD	DIS	IS	Note
22.30.02.02	International String Ordering and Comparison - Method for Comparing Character Strings and Description of the Common Template Tailorable Ordering	IS 14651	20	A. LaBonte Canada					Transferred to JTC 1/SC 2 per JTC 1 Singapore Resolution 24.
22.30.02.02.01	Amendment 1 to IS 14651	IS 14651/ Amd. 1	20	A. LaBonte Canada					Published (2003) Transferred to JTC 1/SC 2 per JTC 1 Singapore Resolution 24.

Recently Cancelled/Withdrawn Projects

Project	Title	Ref. No.	WG	Proj. Editor	WD	CD	DIS	IS	Note
22.15897	Procedure for the Registration of Cultural Elements Revision of IS 15897:1999	IS 15897 CD 15897	20	K. Simonsen Denmark					Published (1999) N2845 is Reg Auth Approval Conc. Reg. & CD ballots approved by N3013 Res. (99-15) N3266 is conc. Reg and CD ballot N3341 is SoV N3437 is DoC N3586 is FCD ballot N3666 is SoV N3680 is DoC N3681-sent to RA N3922 is PE DOC This document is on hold pending discussions at the 2006 SC 22 Plenary meeting in London. Cancelled as per Resolution 06-27
22.35	Extensions for real-time Ada	TR 11735	09	N. Kettani France					Published (1996) Approval for Withdrawal by JTC 1 in March 2003 (JTC 1 N 6987)
22.02.01.02	Floating Point Exception Handling TR (Type 2) - Second Edition	TR 15580	05	J. Reid UK					Published (2001) Withdrawn as per Resolution 07-07

Project	Title	Ref. No.	WG	Proj. Editor	WD	CD	DIS	IS	Note
22.21.03.05	POSIX System Administration User Administration	DIS 15068-3	15		07/94	11/95	08/97		WD is N1635 N1986 is CD reg and ballot N2086 is SoV N2475 is DoC N2673 is ITTF Table of Replies JTC 1 N6567 grants one year extension to proceed to next stage
22.39	POSIX - Amendment 5 to Portable Operating System Interface (POSIX) - Part 1: System API	IS 9945-1/PDAM 5	15	Convener	06/95	08/96			N1125 is NWI summary N1843 is WD N2210 is PDAM reg ballot N2347 is SoV N2601 is DoC N2648 is PDAM ballot JTC 1 N6567 grants one year extension to proceed to next stage
22.40	POSIX - Amendment 8 to Portable Operating System Interface (POSIX) - Part 1: System API	IS 9945-1/PDAM 8	15	Need Editor	06/96	08/98			N1126 is NWI summary N2159 is WD N2404 is PDAM reg. Ballot N2489 is SoV N2599 is DoC N2817 is PDAM ballot N2875 is SoV N3038 is FPDAM ballot N3085 is SoV JTC 1 N6567 grants one year extension to proceed to next stage

Project	Title	Ref. No.	WG	Proj. Editor	WD	CD	DIS	IS	Note
22.41	POSIX - Amendment 2 to IS 9945-2, POSIX - Part 2: Shell and Utility Security Administration	IS 9945-2/ FPDAM 2	15	Need editor	11/94	7/95			N1737 is WD N1896 is draft CD N2054 is CD reg. Ballot N2156 is SoV N2971 is DoC N2972 is PDAM ballot N3047 is SoV N 3208 approves extension of time permitted between CD and DIS stages JTC 1 N6567 grants one year extension to proceed to next stage
22.15287.01	POSIX Supercomputing Application Environment Profiles	FPDISP 15287-1	15	J. Oblinger USA					N2723 Revised is FPDISP Blt N2724 is Explanatory Report N2859 is SoV JTC 1 N6567 grants one year extension to proceed to next stage
22.15879	Distributed Software Administration DCE-RPC Interoperability (XDSA/DCE)	DIS 15879	15				02/98		Fast-track - Open Group (PAS) N2659 is ITTF Table of Replies JTC 1 N6567 grants one year extension to proceed to next stage
22.12	Industrial Realtime Fortran	IS 7846							Published (1985) Withdrawn in 1996
22.10.02	Ada Numeric Packages	IS 11430	09	K. Dritz USA					Published (1994) Withdrawn 2000-09-28
22.10.03	Ada Primitive Functions	IS 11729	09	K. Dritz USA					Published (1994) Withdrawn 2000-09-28
22.15435	APIs for Internationalization	NP 15435	20	K. Simonsen Denmark					Withdrawn per JTC 1 N6756 and Kona Resolution 01-26

Project	Title	Ref. No.	WG	Proj. Editor	WD	CD	DIS	IS	Note
22.15436	Interfacing Modula-2 to C	NP 15436	13	Convenor					Cancelled per JTC 1 N6567 and Kona Resolution 01-03
22.21.03.01	POSIX System Administration (Umbrella Work Item)		15						Withdrawn per JTC 1 N6567 and Kona Resolution 01-14
22.21.01.03.03	POSIX - Amendment 4 to Portable Operating System Interface (POSIX) - Part 1: System API	IS 9945-1/PDAM 4	15						Withdrawn per JTC 1 N6567 and Kona Resolution 01-14
22.15287.02.01	Amendment 1 to ISP 15287-2:2000 - Embedded Systems Profile	PDAM 1 to 15287-2	15						Approval for addition to PoW contained in N3208 Cancelled
22.15287.02.02	Amendment 2 to ISP 15287-2:2000 - Extended Profiles	PDAM 2 to 15287-2	15						Approval for addition to PoW contained in N3208 Cancelled
22.15287.02.01	Amendment 1 to ISP 15287-2:2000 - Embedded Systems Profile	PDAM 1 to 15287-2	15						Approval for addition to PoW contained in N3208 Cancelled
22.15287.02.02	Amendment 2 to ISP 15287-2:2000 - Extended Profiles	PDAM 2 to 15287-2	15						Approval for addition to PoW contained in N3208 Cancelled
22.09.02	Character Repertoire for APL	PDAM 1 to IS 8485: 1989	03	L. Dickey Canada					N3067 is PDAM reg ballot N3094 is SoV N3532 is FPDAM ballot N3575 is SoV CANCELLED
22.18011	POSIX Realtime Distributed Systems API (Language Independent) (C Language & Ada Language)	NP 18011	15	P. Place USA					NWI did not originate in SC22 N2861 is JTC 1 SoV on NWI Conc. Reg and CD ballots approved by N3013 (Res. 99-15) CANCELLED
22.24.02	Character Repertoire for Extended APL	IS 13751/ PDAM 1	03	Convenor	(04/97)				N3082 is PDAM reg. Ballot N3095 is SoV N3532 is FPDAM ballot N3575 is SoV CANCELLED
22.26926	C++/CLI Language Specification	DIS 26926		R. Jaeschke USA					DIS vote ends 8 August 2006

Project	Title	Ref. No.	WG	Proj. Editor	WD	CD	DIS	IS	Note
22.21.02.03	POSIX - Amendment 1 on Batch Services Portability Extensions	IS 9945-2/ PDAM 1	15		12/92	8/94	12/95	08/96	N1645 is PDAM N1758 is SoV N2017 is DoC N2232 is ITTF ToR N2480 is DoC Time delay in forwarding for pub. required new JTC 1 LB N2961 is ITTF ToR JTC 1 N6567 grants one year extension to proceed to next stage
22.02.01.04	Enhanced Data Type Facilities TR (Type 2) - Second Edition	TR 15581	05	M. Cohen UK					Published (2001) Withdrawn as per Resolution 07-07

