

Part IV: Programme of Work (reflecting actions taken at the September 1999 SC22 Plenary)

<u>Project/Ass. date</u>	<u>Title</u>	<u>Ref. No</u>	<u>WG</u>	<u>Proj Editor</u>	<u>WD</u>	<u>CD</u>	<u>DIS</u>	<u>IS</u>	<u>Note</u>
22.01.01 SC5	Programming language COBOL Defect Reports 1-55 Defect Reports 56-61 Defect Reports 62-81	ISO 1989:1985 N1604 N1634 N2310	04	Convenor					published
22.01.03 07/87	Addendum 1 to ISO 1989- Intrinsic Functions	AM1/1989:1985	04	A. Wallace USA					published
22.01.04 07/87	Correction Addendum to ISO 1989	ISO 1989:1985/ AM2/1989:1985	04	A. Wallace USA					published
22.01.07 01/89	Revision of ISO 1989:1985	CD 1989	04	D. Nelson USA	03/95	09/96 (05/00 2nd) (09/01)	(02/02)		N1811 is prelim WD N2260 is CD Reg & ballot N2383 is vote summary N2616 is coms disposition
22.02.01.01 SC5	Programming language Fortran, Part 1: Base Language	IS 1539-1:1997	05						published
	Revision of ISO 1539:1997, Part 1			R. Maine USA	(08/00)	(02/02)			Revision approved N2574 (res 97-3)
22.02.01.02 09/95	Floating Point Exception Handling TR (Type 2)	TR 15580:1998	05	J. Reid UK					Published
	Revision of TR 15880:1998								Conc reg & PDTR bits approvd N3013 (99-15)
22.02.01.03 09/95	Interoperability Between Fortran and C TR (Type 2)		05						Withdrawn N2806 (98-12)

22.02.01.04 09/95	Enhanced Data Type Facilities (TR (Type 2))  Revision of TR 15881:1998	TR 15881:1998	05	M. Cohen UK	Published  Conc reg & PDTR bits approved N3013 (99-15)
22.02.02 09/95	Part 2 of ISO 1539 - Varying Length Character String Module  Revision of ISO 1539-2	IS 1539-2:1994	05	J. Reid UK	Published  01/99 (06/00) Revision approved 9/95 (resolution 95-5) N1970 N2806 (res 98-15) is approval for concurrent bits N2877 is concurrent bits N2930 is vote summary
22.02.03 09/96	Conditional Compilation in Fortran	IS 1539-3:1999	05	D. Epstein USA	Published
22.05 SC5	Programming Language PL/I	IS 6160:1987		J. Klemsin USA	Published
22.06 SC5	General Purpose PL/I	IS 6522:1992		J. Klemsin USA	Published
22.08 SC5	Programming Language Pascal	IS 7185:1990		T. Hetherington UK	Published
22.09.01 SC5	Programming Language APL	IS 8485:1989	03	L. Dickey Canada	Published
22.09.02 09/94	Character Repertoire for APL		03	L. Dickey Canada	
22.10.01 SC5	Revision of Ada ISO 8652:1983	IS 8652:1995	09	E. Floedereder/R. Bruckardt Germany USA	Published

22.10.02 08/88	Ada Numeric Packages	IS 11430:1994	09	K. Dritz USA	Published
22.10.03 08/88	Ada Primitive Functions	IS 11729:1994	09	K. Dritz USA	Published
22.10.04 08/88	Ada Complex Functions	IS 13813	09	D. Sando/K. Dritz USA	Published
22.10.05 08/88	Generic Package of Complex Elementary Functions in Ada	IS 13814:1998	09	J. Squire/K. Dritz USA	Published
22.11 SC5	Programming Language Full Basic Technical Info Bulletin 1	IS 10279:1991 X3.113-1987		T. Kurtz USA	Published N1189
	Technical Corrigendum 1	COR1/10279:1991			Withdrawn N2574 (res 97-9)
22.12 SC5	Industrial Realtime Fortran	IS 7846:1985			Published. recommended for w/drawal
22.13 SC5	Guidelines for the Preparation of Prog Language Standards	TR 10176:1998	20	A. Kido/M. Noda Japan	Published
22.13.01 03/99	Amendment 1 to TR 10176	DAMI/10176:1998	20		03/99 N2846 is request for subdivision N2847 is request for concurrent reg and approval ballots N2895 is vote summary on rqst for subdivision N2896 is vote summary on rqst for concurrent ballots N2897 is PDAM reg and ballot N2936 is vote summary
22.14 SC5	Binding Techniques for Prog Languages	TR 10182:1993	11	D. Nelson USA	Published

22.15.01 08/85	Binding Techniques for Prog Languages Clauses	TR 10034:1990		N/A		Published
22.15.02 08/85	Test Methods for Programming Language Processors	TR 9547:1988		N/A		Published
22.16 04/85	Language-Independent Procedure Calling	IS 13886:1996	11	Convener		Published
22.17 04/85	Language-Independent Datatypes	IS 11404:1996	11	E. Barkmeyer USA		Published
22.18.01 04/86	Programming Language Modula-2 Base language	IS 10514-1:1996	13	C. Pronk Netherlands		Published
22.18.02 01/92	Object-Oriented Extensions to Modula-2	IS 10514-3:1998	13	A. Wiedemann Germany		Published
22.18.04 01/92	Generics in Modula-2	IS 10514-2:1998	13	R. Sutcliffe Canada		Published
22.19 04/86	Programming Language Extended Pascal	IS 10206:1991		T. Hetherington UK		Published
22.20.01 04/86	Programming Language C	IS 9899:1990	14	Convener		Published
	Defect Reports 60-141	N2056				Published
	Technical Corrigendum 1	COR1/9899:1990	14	Convener		Published
	Technical Corrigendum 2	COR2/9899:1990 (published 1996)				Published
	Revision of IS 9899:1990			L. Jones USA	03/97 (CD) 08/98 (FCD)	N2444 is CD reg ballot N2541 is summary of voting N2618 is coms disposition N2620 is CD approval ballot

N2690 is vote summary  
 N2792 is coms disposition  
 N2794 is FCD ballot  
 N2872 is vote summary  
 N2898 is coms disposition  
 JTC 1 letter ballot closes 9/15/95

22.20.02 10/89	Addendum on C Integrity	AMI:9899	14	D. Jones U.K					Published
22.21.01.01 07/87	POSIX System Interface (Language Independent)		15						Withdrawn N3013 (re 99-16)
22.21.01.03.01 09/91	Addendum to ISO 9945-1: Dist Services - Transparent File Service	PDAM6/IS 9945-1	15	Convener					Withdrawn N2574 (re 97-6)
22.21.01.03.03 09/91	Addendum to ISO 9945-1: Dist Services - Protocol Independent Interface	PDAM4/IS 9945-1	15	S. Walli USA	10/95	08/96	08/97		WD is N2009 N2213 is PDAM reg and approval ballot N2351 is summary of voting N2390 is corrected vote summary N2539 is coms disposition N2701 is ITTF Table of Replies
22.21.02.01 10/89	POSIX Shell and Utilities  Defect Reports 01-147	IS 9945-2:1993  N2689	15	S. Walli USA					Published  N2689 is letter ballot N2815 is vote summary
22.21.02.03 09/91	Addendum on Batch Services Portability Extensions	PDAM1/9945-2	15	N. Aaronson USA	12/92	8/94	12/95	08/96	N1645 is PDAM N1758 is voting summary N2017 is coms disposition N2232 is ITTF Table of Replies N2480 is coms disposition Time delay in forwarding for publication reqd new JTC 1 b1 N2961 is ITTF Table of Replies

22.21.03.01 10/89	POSIX System Administration (Umbrella Work Item)		15	M. Kirk USA				
22.21.03.03 09/93	POSIX System Administration - Print Administration	CD 1508-4	15					Withdrawn N3013 (res 99-16)
22.21.03.04 09/93	POSIX System Administration - Software Administration	IS 15064-2:1999	15	J. Astiford USA				Published
22.21.03.05 09/93	POSIX System Administration - User Administration	DIS 1508-3	15	M. Kirk UK	07/94	11/95	08/97	WD is N1635 N1986 is CD reg and ballot N2086 is summary of voting N2475 is crms disposition N2673 is ITTF Table of Replies
22.21.04.01 10/89	POSIX C Binding	IS 9945-1:1996	15	S. Walli USA				Published
22.21.04.01.01 09/95	Advanced Real Time Amendment	PDAM7.S 9945-1	15	M. Gonzalez Spain	11/96	03/97		Subdivision approved in N2301 (res 96-13) N2329 is PDAM Reg ballot N2443 is voting summary N2678 is PDAM approval blt N2781 is voting summary
22.21.04.02 10/89	POSIX Ada Binding, Part 1	IS 14519-1:1999	15	T. Baker USA				Fastrack IEEE standard Published
	POSIX Ada Binding, Part 2 (realtime)				10/93 4/94			First WD is N1501 Second WD is N1813 (fast-track IEEE)
22.21.01 09/87	Protog General Core	IS 132114:1995	17	Convener				Published

22.22.02 09/91	Prolog Modules	CD 13211-2	17	J. Hodgson USA	03/93 05/94 08/95	03/96 08/98 (FCD)	(06/00) (12/00)	N1926 is third WD & CD reg ballot N2046 is summary of voting N2157 is comts disposition N2264 is CD ballot N2384 is voting summary N2578 is comts disposition N2737 is FCD Ballot N2855 is voting summary N2929 is comts disposition
22.23 09/87	Programming Language Lisp	IS 13816:1997	16	K. Pitman USA				Published
22.24.01 09/87	Programming Language Extended APL	DIS 13751	03	Convenor	11/90	09/93	06/97	N875 is WD and Reg Ballot N937 is summary of voting N1433 is CD ballot N1528 is summary of voting N2635 is ITTF Table of Replies N2814 is comts disposition
22.24.02 09/94	Character Repertoire for Extended APL		03	Convenor				
22.27.01 08/88	Forms Interface Management System (FIMS)	IS 11730:1994		D. Franz USA				Published Recommended for w/drawal N2806
22.28 04/90	Language Independent Arithmetic	IS 10967-1:1995	11	K. Karlsson Sweden				Published
22.29 03/90	Vienna Development Method/ Specification Language (Umbrella Project)							
22.29.01 03/90	Vienna Development Method/ Specification Language, Part 1: Base Language	IS 13817-1:1996	19	D. Andrews UK				Published

22.29.02 08/92	Vienna Development Method/ Specification Language, Part 2: Modules		19				Withdrawn N3013 (res 99-12)
22.30.01 04/90	Framework for Internationalization	TR 11017:1998	20				Published
22.30.02.01 04/90	Functionality for Internationalization (Umbrella Project)		20				
22.30.02.02 09/93	International String Ordering and Comparison - Method for Comparing Character Strings and Description of a Common Tailorable Ordering Template	FCD 14651	20	A. LaBonte Canada	08/95	06/96 11/97 (FCD) 11/98 (2nd FCD) 06/99 (3rd FCD)	N2158 is CD reg ballot N2311 is summary of voting N2363 is Comments Disposition N2364 is CD approval ballot Title Change N2574 (res 97-11) N2466 is voting summary N2606 is comts disposition N2607 is FCD Approval Ballot N2719 is voting summary N2814 is comts disposition N2844 is second FCD ballot N2911 is vote summary N2912 is Sweden comments N2934 is comts disposition N2933 is third FCD ballot
22.30.02.03 09/94	Specification Method for Cultural Conventions (Type 1 TR)	PDTR 14652	20	K. Simonsen Denmark		12/97 12/98 (2nd) 07/99 (TR)	N2504 is concurrent CD reg CD ballot N2612 is vote summary N2637 is comts disposition N2638 is FCD Ballot Title change approved N2806 (res 98-18) N2732 is vote summary N2829 is comts disposition N2869 is 2nd FCD ballot N2917 is vote summary N2937 is comts disposition N2955 is PDTR ballot

22.31 06/90	SQL Ada Module Extension Language	IS 12227:1995	09	A. Koeller Germany				Published recommended withdrawal in 2000 N3013 (Res 99-19)
22.32 04/91	Programming Language C++	IS 14882:1998	21	A. Koenig USA				Published
22.33 04/91	Elementary Numerical Functions	CD 10967-2	11	K. Karlsson Sweden	10/93 06/95	11/95 02/97 (2nd) (09/98 3rd)		N1849 is second WD New Title Approved 9/95 Resolution 95-8 N1970 N2021 is CD reg & ballot N0249 is revised ballot response date N2132 is voting sum & cmts N2391 is comments disposition N2397 is FCD ballot N2505 is voting sum & cmts N2823 is cmts disposition N2824 is 3rd CD ballot N2879 is vote summary N2977 is cmts disposition
22.34 04/91	Complex Floating Point Arithmetic and Complex Elementary Numeric Functions		11	K. Karlsson Sweden	(09/99)	(09/00)		to be 10967-3 New title approved 9/95 Resolution 95-8 N1970
22.35 06/91	Ada Extensions and User Run Time Executive Interface	TR 11735:1996	09	N. Kettani France				Published
22.36	Addendum to ISO 10279 - Full Basic: Modules and Single Character Input	AM1/10279:1991						Published
22.37 03/92	Test Methods for Measuring Confor- mance to POSIX	IS 13210:1994	15	B. Hedquist USA				Published
	Defect Reports 1-17	N2583						N2651 is vote summary published
	Revision of IS 13210				07/94	08/96	03/99	N1898 is WD of revision

N2215 is CD reg ballot  
 N2352 is summary of voting  
 N2446 is coms disposition  
 N2459 is FCD ballot  
 N2595 is voting summary  
 FTC 1 letter ballot closes 9/8/99

22.38 03/92	Guide to POSIX Open Systems Environments	TR 14252:1996	15	D. Folland UK			Published
22.39 03/92	Portable Operating System Interface (POSIX) - Part 1: System API Addendum	PDAM5/IS 9945-1	15	Convener	06/95	08/96	N1125 is NWI summary N1843 is WD N2210 is PDAM reg ballot N2347 is summary of voting N2601 is comts disposition N2648 is PDAM ballot N2725 is vote summary
22.40 03/92	Portable Operating System Interface (POSIX) - Part 1: System API Addendum for Realtime	PDAM8/IS 9945-1	15	S. Walli USA	06/96	08/98	N1126 is NWI summary N2159 is WD N2404 is PDAM Reg Ballot N2489 is summary of voting N2599 is comts disposition N2817 is PDAM ballot N2875 is vote summary
22.41 03/92	Portable Operating System Interface (POSIX) - Part 2: Shell and Utility Addendum	PDAM2/ IS 9945-2	15	S. Walli USA	11/94	7/95	N1737 is WD N1896 is draft CD N2054 is CD reg ballot N2156 is vote summary & reg N2971 is comts disposition N2972 is PDAM ballot
22.42	Portable Operating System Interface (POSIX) - Part 1: System API Security Addendum	PDAM3/IS 9945-1	15				Withdrawn N2806 (res 98-13)
22.43 03/92	Portable Operating System Interface (POSIX) - Part 2: Shell and Utility Security Administration	PDAM3/9945-2	15				Withdrawn N2806 (98-13)

22.44 07/92	Programming Language MUMPS  Revision of IS 11756 (See Project 22.11756)	IS 11756:1992		K. Schell USA					Published - fast track
22.45 03/93	Z Notation	CD 13568	19	I. Toyn UK	02/96 09/98 (FCD)				N1339 is MWI summary New title approved 9/95 Resolution 95-19 N1970 N1982 is CD reg and ballot N2081 is summary of voting N2174 is counts disposition N2982 is FCD Ballot
22.46 01/94	Guidelines for Preparation of Language Independent Service Specification	TR 14369	11	Convener	05/97	06/98	12/98	04/99	N1376 is MWI summary N1790 is comments N2470 is WD N2658 is Reg ballot N2755 is vote summary N2759 is counts disposition N2761 is PDTR Ballot N2849 is vote summary N2857 is counts disposition N2913 is JTC 1 vote summary To ITTF for publication 5/99
22.47.1 03/94	PCTE, Part 1	IS 13719-1:1998		J. Dawes UK					Published
	PCTE, Part 2	IS 13719-2:1998							Published
	PCTE, Part 3	IS 13719-3:1998							Published
22.47.2	PCTE Object Orientation Extensions			J. Dawes UK					Incorporated into IS 13719-1, IS 13719-2 and IS 13719-3
22.47.3	PCTE Fine Grain Objects Extensions			J. Dawes UK					Incorporated into IS 13719-1, IS 13719-2 and IS 13719-3
22.47.5 06/96	IDL Binding to PCTE	IS 13719-4:1998		J. Dawes UK					Published (Fast-track)

22.9496	Programming Language CHILL Revision of IS 9496	IS 9496:1996						Published (Fast track - ITUT/CCITT N2851 is ITTF Table of Replies)
22.11756	Programming Language M (Revision of IS 11756:1992)	IS 11756:1999		K. Schell USA		07/97		Fast track - published
22.14515-1.01 09/94	Initial System API	IS 14515-1:1996	15	B. Hedquist USA				Published
22.14515-1.02 09/94	Realtime Extensions	PDAM1/IS 14515-1	15	B. Hedquist USA	06/96	01/97		N2162 is WD N2233 is PDAM Reg Ballot N2358 is summary of voting N2647 is PDAM Ballot N2744 is vote summary N2871 is comts disposition
22.14515-2 09/94	Shell and Utilities Test Methods (TM for 22.21.02.01 and 21.02.02)	DIS 14515-2	15	S. McCarron USA	08/95	03/96	08/97	N1924 is WD N2093 is CD reg and CD Ballot N2226 is Summary of Voting N2677 is ITTF Table of Replies
22.14766 01/96	Guide for POSIX National Profiles		15	K. Simonsen Denmark				NP ballot is N1741 N1822 is summary of voting N2044 is JTC 1 vote summary
22.14977	Syntactic Metalanguage - Extended BNF	IS 14977:1996	19					Published
22.15145	FORTH Programming Language	IS 15145:1997		J. Rible USA				Published - fast track
22.15287 04/96	International Standardized Profiles (Umbrella Project)		15					NWI ballot is N1838 N1941 is summary of voting N2021 is JTC 1 vote summary
22.15287.01 09/96	POSIX Supercomputing Applications Environment Profiles	FPDISP 15287-1	15	J. Oblinger USA		04/98		N2723 Revised is FPDISP Bit N2724 is Explanatory Report N2859 is vote summary

22.15287.02 09/96	POSIX Real Time Application Support Profile	FPLISP 15287-2	15	J. Oblinger USA	04/98 08/99	N2694 is FPDISP Ballot N2695 is Explanatory Report N2827 is vote summary To ITTF for ballot 8/99
22.15291 06/96	Ada Semantic Interface Specification	IS 15291:1999	09	S.Blake/C. Roby USA		Published
22.15435 02/97	APIs for Internationalization		20	K. Simonsen Denmark		SC22 approval in N2301 (res 96-18) N2424 is JTC 1 NP approval summary of voting N2574 (res 97-23) is approval for concurrent bits
22.15436 02/97	Interfacing Modula-2 to C		13	Convener		NP approval in N2301 (res 96-9) N2420 is JTC 1 NP approval summary of voting N2974 (res 97-22) is approval for concurrent bits
22.15851	Communications Protocol - Open Interconnect	IS 15851:1999		K. Schell USA		Fast track - Published
22.15852	M Windowing API	IS 15852:1998		K. Schell USA		Published - fast track
22.15879	Distributed Software Administration DCE-RPC Interoperability (XD6A/DCE)	DIS 15879	15	M. Kirk Open Group	02/98	Fast-track - Open Group (PAS) N2659 is ITTF Table of Replies
22.15897	Procedure for the Registration of Cultural Elements  Revision of IS 15897	IS 15897:1999	20	K. Simonsen Denmark		Published N2845 is Reg Authority Apmt  Conc reg & CD ballots approved N3013 (99-15)

22.15942 03/98	Guidance for Use of Ada In High Integrity Systems (Type 3 TR)	PDTR 15942	09	B. Wichmann UK	09/98	09/98	07/99	(10/00)	N2494 is SC22 NP Approval ballot N2683 is JTC 1 vote summary N2763 is PDTR registration blt N2806 (98-11) is reg approval N2835 is PDTR ballot N2893 is vote summary N2957 is comts disposition JTC 1 LB closes 10/19/99
22.16262	ECMAScript: A general Purpose Cross-Platform Programming Language	DIS 16262		M. Cowlishaw ECMA					Fast track N2706 is ITTF Table of Replies N2745 is comts disposition
22.16509	Year 2000 Terminology	IS 16509		K. Lewis USA				07/99	Fast track N2907 is ITTF Table of Replies N2914 is calling notice for reconciliation meeting N2935 is Canada contribution for reconciliation meeting N2945 is comts disposition
22.18009 12/98	Ada: Conformity Assessment		9	E. Floedereder Germany	08/98	01/99	04/99	10/99	N2765 is NP N2783 is WP N2790 is reqst of concurrent CD Reg and FCD Blt N2806 (98-10) is SC22 approval of NP N2806 (98-16) is approval for concurrent ballots N2856 is JTC 1 vote summary on NP N2876 is concurrent CD reg and FCD ballots N2931 is vote summary N2948 is comts disposition JTC 1 LB closes 10/19/99

22.18011 12.98	POSIX Realtime Distributed Systems API (Lug Independent) (C Lug & Ada Lug)	15	P. Place USA	NWI did not originate in SC22 N2861 is JTC 1 vote summary on NWI Conc reg & CD bits approved N3013 (res 99-15)
22.18015 07/99	C++ Performance (Type 3 TR)	21	B. Kehoe USA	N2831 is NP for SC22 ballot N2891 is vote summary N2952 is JTC 1 vote summary on NP