

Date: August 13, 1998
To: J3
From: Tony Warnock
Subject: Fortran 2000 Status Report

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Fortran 2000 Workplan Status Report

The base for Fortran 2000 is Fortran 95. J3 will integrate the material the following "R" and "T" items (and any "M" and "B" items that are finished in time) into the Fortran 95 standard to prepare the Fortran 2000 draft standard. J3 will deliver this draft document to WG5 in early 2000.

Item

Champion

Requirements

R1	Derived-Type I/O Specs: 98-189r1	Syntax: 98-189r1	R.Bleikamp Edits: 98-189r1
R2	Asynchronous I/O Specs:	Syntax:	R.Bleikamp Edits: 97-262
R3	Procedure Pointers Specs:	Syntax: 97-218r2	V.Snyder Edits: 98-121r1
R4	Interval Arithmetic Enabling Technologies Specs: 97-199	Syntax:	B.Kearfott Edits:
b	Additions to Character Set Specs:	Syntax:	T.Warnock Edits: 98-119r1
d	Control of I/O Rounding Specs: 98-111r2	Syntax: 97-144	D.Hendrickson Edits: 98-190r1
f	Constants for Opaque Types Specs: 98-113	Syntax:	B.Kearfott Edits:
R5	Parameterized Derived Types Specs:	Syntax:	R.Maine Edits: 98-122r1
R6	Object Oriented Technologies		
a	Inheritance Specs:	Syntax:	M.Cohen Edits: 97-196r2
b	Polymorphism Specs: 97-230r1	Syntax:	M.Cohen Edits: 98-201

R7	Constructors/Destructors Specs:	Syntax:	K.Hirchert Edits: 97-256
R8	Internationalization Specs: 98-199r1	Syntax: 98-199r1	S.Whitlock Edits: 98-199r1
R9	Interoperability with C Specs: 98-165r1	Syntax: 98-195r2	H.Zongaro Edits:

Minor Technical Enhancements

M1	Increased Statement Length Specs:	Syntax:	S.Whitlock Edits: 97-236
M2	Intent for Pointer Arguments Specs: 97-240r1	Syntax:	R.Maine Edits:
M3	Generic RATE_COUNT in SYSTEM CLOCK Specs: 97-160r1	Syntax:	C.Dedo Edits:
M4	Specifying Pointer Lower Bounds Specs: 97-205	Syntax:	J.Martin Edits:
M5	Extemd MAX/MIN Intrinsic to CHARACTER Specs: 97-249r1	Syntax:	L.Meissner Edits:
M6	Extended Initialization Expressions Specs: 97-250r2	Syntax:	L.Meissner Edits:
M7	Lower Case Syntax Elements Specs: 97-161r2	Syntax:	C.Dedo Edits:
M10	Named Scratch Files Specs: 97-193r1	Syntax:	C.Dedo Edits: 98-197
M15	Renaming Defined Operators Specs: 98-158	Syntax:	D.Hendrickson Edits:
M16	Derived-Type Assignment Fix Specs:	Syntax:	M.Cohen Edits: 97-197
M17	Enhanced Complex Constants Specs: 98-131r1	Syntax:	S.Whitlock Edits:

M18	Command Line Arguments and Environment Variables		
a	Command-Line Arguments	Specs:	Syntax: R.Bleikamp Edits: 98-135r2
b	Environment Variables	Specs: 98-163	Syntax: R.Bleikamp Edits:
M19	VOLATILE Attribute	Specs: 98-191r1	Syntax: 98-191r1 Edits: 191r1
M20	Allow PUBLIC Entities of PRIVATE Type	Specs: 98-123	Syntax: R.Maine Edits:
M21	Flexible Optimization Control	Specs: 97-263	Syntax: Edits:
M22	Control of Operation Rounding	Specs: 98-126r1	Syntax: Edits:
M23	Access to Status Error Messages	Specs: 98-173	Syntax: V.Snyder Edits:
M24	Mixed PUBLIC and PRIVATE Type Components	Specs: 98-198	Syntax: 98-198 Edits: R.Maine

Minor Technical Enhancements of Lesser Importance

B4	Stream I/O	Specs: WG5#63	Syntax: Edits:
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Technical Reports from Bodies other than J3

T1	Floating Point Exception Handling	Specs: N1281	Syntax: J.Reid Edits:
T3	Allocatable Structure Components	Specs: N1282	Syntax: M.Cohen Edits:

Optional Parts of the Fortran Family of Standards

Varying String Data Type Standard/Approved
 Functionality defined; possible derived-type/module implementation provided.

Conditional Compilation draft in progress
 A Fortran-like facility that provides the conditional compilation functionality of CPP, but not the other forms of preprocessing.