

Date: July 5, 2000
 To: J3
 From: Tony Warnock
 Subject: Fortran 2000 Status Report

This is a draft of the status report. It will be updated with the results of meeting153.

Interpretations

The following interpretations have been considered by J3.

J3	Letter	Number	Title
Pass	Pass	00066	Errors in processing data transfer statements
Pass	Pass	00067	Writing zeros
Pass	Pass	00068	Asterisks as I/O units
Pass	Pass	00069	What is a numeric character?
Pass	Pass	00070	Asymmetry between constant specification and initialization expressions
Pass	Pass	00071	Character array constructors
Pass	Pass	00072	Resolving generic procedure references
Pass	Pass	00076	INTENT(IN) dummy arguments and implied DO loops
Pass	Pass	00077	INTENT(IN) dummy arguments and NULLIFY
Pass	Pass	00079	Pointer Assignment and Allocatable Arrays
Pass	Pass	00080	Host association and the EXTERNAL attribute
Pass	Pass	00082	Usage of BOZ literal constants
Pass	Pass	00083	Scope of array-constructor implied-DO variable
Pass	Pass	00084	Events that cause variables to be defined

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" 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 2003. Status of items indicated by: C=Complete except for integration, I=In Progress, D=Discontinued.

Requirements

Item	Champion	Status
R1 Derived-Type I/O Specs: 98-189r1	Syntax: 98-189r1 R.Bleikamp Edits: 98-189r1	Complete
R2 Asynchronous I/O Specs:	Syntax: R.Bleikamp Edits: 97-262	Complete

R3	Procedure Pointers Specs:	Syntax: 97-218r2	V.Snyder	Complete Edits: 98-121r1, 99-134r3, 99-148r2, 99-181r1
R4	Interval Arithmetic Enabling Technologies Specs: 97-199	Syntax:	B.Kearfott	Discontinued Edits:
b	Additions to Character Set Specs:	Syntax: 98-119r1	T.Warnock	Complete Edits: 99-112
d	Control of I/O Rounding Specs: 98-111r2	Syntax: 98-190r2	D.Hendrickson	Complete Edits: 98-190r2
f	Constants for Opaque Types Specs: 98-230	Syntax: 98-230	M.Cohen	Complete Edits: 99-108r1
R5	Parameterized Derived Types Specs:	Syntax:	R.Maine	Complete Edits: 98-122r1
R6	Object Oriented Technologies			
a	Inheritance Specs: 97-137	Syntax:	M.Cohen	Complete Edits: 97-196r2, 99-164r1, 99-149r1, 99-157r2
b	Polymorphism Specs: 97-230r1	Syntax: 98-152	M.Cohen	Complete Edits: 98-201
c	Implicit Root Type Specs: 99-253, 254r2	Syntax: 99-254r2	M. Cohen	Complete Edits: 99-254r2
d	WITH-like Construct Specs: 99-196r2	Syntax: 99-196r2	M. Cohen	In Progress Edits:
R7	Constructors/Destructors Specs: 99-255,00-128	Syntax:	K.Hirchert	In Progress Edits:
R8	Internationalization Specs: 98-199r1	Syntax: 98-199r1	S.Whitlock	Complete Edits: 98-199r1, 99-10542
R9	Interoperability with C Specs: 98-165r1	Syntax: 98-195r2	H.Zongaro	In Progress Edits: 98-240r1, 99-113r2, 99-118r1, 99-156r1, 99-160r1, 99-205r2, 99-209, 99-211r1, 99-226, 99-122r2, 00-120r1, 00-127, 00-149r1, 00-150

Minor Technical Enhancements

M1	Increased Statement Length Specs:	Syntax:	S.Whitlock	Complete Edits: 97-236
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M2	Intent for Pointer Arguments Specs: 97-204r1	Syntax: 97-204r1	R.Maine	Complete Edits: 97-204r1
M3	Generic RATE_COUNT in SYSTEM CLOCK Specs: 97-160r1	Syntax: 97-160r1	C.Dedo	Complete Edits: 97-160r1
M4	Specifying Pointer Lower Bounds Specs: 97-205	Syntax: 97-205	J.Martin	Complete Edits: 97-205
M5	Extend MAX/MIN Intrinsic to CHARACTER Specs: 97-249r1	Syntax: 97-249r1	L.Meissner	Complete Edits: 97-249r1
M6	Extended Initialization Expressions Specs: 97-250r2	Syntax: 97-250r2	L.Meissner	Complete Edits: 97-250r2
M7	Lower Case Syntax Elements Specs: 97-161r2	Syntax: 97-162r2	C.Dedo	Complete Edits: 97-161r2
M10	Named Scratch Files Specs: 97-193r1	Syntax: 97-193r1	C.Dedo	Complete Edits: 97-193r1, 98-197
M15	Renaming Defined Operators Specs: 98-158r1	Syntax: 98-158r1	D.Hendrickson	Complete Edits: 98-241r1
M16	Derived-Type Assignment Fix Specs:	Syntax: 97-197	M.Cohen	????? Edits:
M17	Enhanced Complex Constants Specs: 97-252	Syntax: 97-252	S.Whitlock	Complete Edits: 98-131r1
M18	Command Line Arguments and Environment Variables			
a	Command-Line Arguments Specs: 98-135r2	Syntax: 98-135r2	R.Bleikamp	Complete Edits: 98-135r2, 98-154, 00-118r3
b	Environment Variables Specs: 98-163	Syntax:	R.Bleikamp	Complete Edits: 98-234r1
M19	VOLATILE Attribute Specs: 98-191r1	Syntax: 98-191r1	S.Whitlock	Complete Edits: 98-191r1, 99-261r1, 00-132r1
M20	Allow PUBLIC Entities of PRIVATE Type Specs:	Syntax:	R.Maine	Complete Edits: 98-123
M21	Flexible Optimization Control Discontinued Specs: 97-263	Syntax: 98-231		Edits:
M22	Control of Operation Rounding Specs: 98-126r1	Syntax:		Discontinued Edits:

M23	Access to Status Error Messages Specs: 99-104r2	Syntax: 99-104r2	V.Snyder Edits: 99-104r2, 00-108r1 Edits:99-104r2	Complete
M24	Mixed PUBLIC and PRIVATE Type Components Specs: 98-198	Syntax: 98-198	R.Maine Edits: 98-228r1	Complete
M25	Stream I/O Specs: 98-209r2	Syntax: 98-209r2	Edits: 98-211r2, 99-110r1	
M28	IMPORT Statement Specs: 99-197r1	Syntax: 99-197r1	M.Cohen Edits: 99-263r1	Complete

Technical Reports from Bodies other than J3

T1	Floating Point Exception Handling Specs: N1281	Syntax:	J.Reid Edits: TR15580	
T3	Allocatable Structure Components Specs: N1282	Syntax:	M.Cohen Edits: TR15581	

Optional Parts of the Fortran Family of Standards

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

Conditional Compilation Standard/Approved
A Fortran-like facility that provides the conditional compilation functionality of CPP, but not the other forms of preprocessing.