Date: May 31, 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 meeting 153.

Interpretations

The following interpretations have been considered by J3.

J3	Letter		Title
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.

Requirements

	Item		Champion	Status
R1	Derived-Type I/O		R.Bleikamp	Complete
	Specs: 98-189r1	Syntax: 98-189r1	Edits: 98-189r1	
R2	Asynchronous I/O		R.Bleikamp	Complete
	Specs:	Syntax:	Edits: 97-262	
R3	Procedure Pointers		V.Snyder	Complete
	Specs:	Syntax: 97-218r2	Edits: 98-121r1, 99-134r3, 99-148r2, 99-181r1	
R4	Interval Arithmetic Enabling Technologies		B.Kearfott	Discontinued
	Specs: 97-199	Syntax:	Edits:	

b	Additions to Character Set Specs:	Syntax: 98-119r1	T.Warnock Edits: 99-112	Complete
f	Constants for Opaque Types Specs: 98-230	Syntax: 98-230	M.Cohen Edits: 99-108r1	Complete
R5	Parameterized Derived Types Specs:	Syntax:	R.Maine Edits: 98-122r1	Complete
R6	Object Oriented Technologies			
a	Inheritance Specs: 97-137	Syntax:	M.Cohen Edits: 97-196r2, 99-164r1, 99-149r1, 99-157r2	Complete
b	Polymorphism Specs: 97-230r1	Syntax: 98-152	M.Cohen Edits: 98-201	Complete
c	Implicit Root Type Specs: 99-253, 254r2	Syntax: 99-254r2	M. Cohen Edits: 99-254r2	Complete
d	WITH-like Construct Specs: 99-196r2	Syntax: 99-196r2	M. Cohen Edits:	In Progress
R7	Generalized Constructors/Destructors Specs: 99-255,00-128	Syntax:	K.Hirchert Edits:	In Progress
R8	Internationalization Specs: 98-199r1	Syntax: 98-199r1	S.Whitlock Edits: 98-199r1, 99-10542	Complete
R9	Interoperability with C Specs: 98-165r1	Syntax: 98-195r2	H.Zongaro Edits: 98-240r1, 99-113r2, 99-118r1, 99-122r2, 99-156r1, 99-160r1, 99-205r2, 99-209, 99-211r1, 99-226, 99-260, 99-261r1 99-262r2, 99-270r1, 99-271r2, 99-274r2, 00-120r1, 00-127, 00-149r1, 00-150, 00-198r1, 00-199r1	In Progress

Minor Technical Enhancements

B1	VOLATILE Attribute Specs: 98-191r1	(was M19) Syntax: 98-191r1	S.Whitlock Edits: 98-191r1, 99-261r1, 00-132r1	Complete
B2	Allow PUBLIC Entities of PRIVATE Type (was M20) Specs:	Syntax:	R.Maine Edits: 98-123	Complete
B3	Mixed PUBLIC and PRIVATE Type Components (was M24) Specs: 98-198	Syntax: 98-198	R.Maine Edits: 98-228r1	Complete
B4	Stream I/O (was M25) Specs: 98-209r2	Syntax: 98-209r2	Edits: 98-211r2, 99-110r1	Complete

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B5     Command Line Arguments and Environment Variables (was M18)
 a     Command-Line Arguments                              R.Bleikamp       Complete
       Specs: 98-135r2             Syntax: 98-135r2        Edits: 98-135r2, 98-154,
                                                                 00-118r3

 b     Environment Variables                               R.Bleikamp       Complete
       Specs: 98-163               Syntax:                 Edits:98-234r1

B6     Access to Status Error Messages     (was M23)       V.Snyder         Complete
       Specs: 99-104r2             Syntax: 99-104r2        Edits: 99-104r2, 00-108r1

B7     Control of I/O Rounding     (was R4d)               D.Hendrickson    Complete
       Specs: 98-111r2             Syntax: 98-190r2        Edits: 98-190r2


M1     Increased Statement Length                          S.Whitlock       Complete
       Specs:                      Syntax:                 Edits: 97-236

M2     Intent for Pointer Arguments                        R.Maine          Complete
       Specs: 97-204r1             Syntax: 97-204r1        Edits: 97-204r1

M3     Generic RATE_COUNT in SYSTEM CLOCK                  C.Dedo           Complete
       Specs: 97-160r1       Syntax: 97-160r1              Edits: 97-160r1

M4     Specifying Pointer Lower Bounds                     J.Martin         Complete
       Specs: 97-205               Syntax: 97-205          Edits: 97-205

M5     Extend MAX/MIN Intrinsics to CHARACTER              L.Meissner       Complete
       Specs: 97-249r1             Syntax: 97-249r1        Edits: 97-249r1

M6     Extended Initialization Expressions                 L.Meissner       Complete
       Specs: 97-250r2             Syntax: 97-250r2        Edits: 97-250r2

M7     Lower Case Syntax Elements                          C.Dedo           Complete
       Specs: 97-161r2             Syntax: 97-162r2        Edits: 97-161r2

M10    Named Scratch Files                                 C.Dedo           Complete
       Specs: 97-193r1             Syntax: 97-193r1        Edits: 97-193r1, 98-197

M15    Renaming Defined Operators                          D.Hendrickson    Complete
       Specs: 98-158r1             Syntax: 98-158r1        Edits: 98-241r1

M16    Derived-Type Assignment Fix                         M.Cohen    Interpretation
       Specs: 97-197 (not passed)  Syntax:                 Edits:

M17    Enhanced Complex Constants                          S.Whitlock       Complete
       Specs: 97-252               Syntax: 97-252          Edits: 98-131r1

M21    Flexible Optimization Control                                        Discontinued
       Specs: 97-263               Syntax: 98-231          Edits:

M22    Control of Operation Rounding                                        Discontinued
       Specs: 98-126r1             Syntax:                 Edits:

M26    Dynamic Type Allocation                             M.Cohen          Complete
       Specs: 00-195r2             Syntax: 00-195r2        Edits: 00-195r2
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M27	Access Standard Unit Numbers		V.Snyder	
	Specs: 99-105r2	Syntax: 99-105r2	Edits: 99-105r2	Complete
M28	IMPORT Statement		M.Cohen	Complete
	Specs: 99-197r1	Syntax: 99-197r1	Edits: 99-263r1	

Technical Reports from Bodies other than J3

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