Date: May 5, 2000   J3/00-010r0
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.

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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.

Requirements

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

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R3    Procedure Pointers                                   V.Snyder
      Specs:                    Syntax: 97-218r2           Edits: 98-121r1

R4    Interval Arithmetic Enabling Technologies            B.Kearfott
      Specs: 97-199             Syntax:                    Edits:

 b    Additions to Character Set                           T.Warnock
      Specs:                    Syntax:98-119r1            Edits: J3/99-112

 d    Control of I/O Rounding                              D.Hendrickson
      Specs: 98-111r2           Syntax: 97-144             Edits: 98-190r1

 f    Constants for Opaque Types                           M.Cohen
      Specs:98-230              Syntax:98-230              Edits:

R5    Parameterized Derived Types                          R.Maine
      Specs:                    Syntax:                    Edits: 98-122r1

R6    Object Oriented Technologies
 a    Inheritance                                          M.Cohen
      Specs:                    Syntax:                    Edits: 97-196r2

 b    Polymorphism                                         M.Cohen
      Specs: 97-230r1           Syntax:                    Edits: 98-201

R7    Constructors/Destructors                             K.Hirchert
      Specs: 97-209r1,256       Syntax: 98-138             Edits:98-229r1

R8    Internationalization                                 S.Whitlock
      Specs: 98-199r1           Syntax: 98-199r1           Edits: 98-199r1
                                                           Edits: 99-105r2

R9    Interoperability with C                              H.Zongaro
      Specs: 98-165r1           Syntax: 98-195r2           Edits:98-240r1
      Lot=s more papers.
```

Minor Technical Enhancements

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

M2    Intent for Pointer Arguments                         R.Maine
      Specs: 97-240r1           Syntax:                    Edits:

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

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

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

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

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

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

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

M16   Derived-Type Assignment Fix                                 M.Cohen
      Specs:                     Syntax: 97-197                   Edits:

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

M18   Command Line Arguments and Environment Variables
 a    Command-Line Arguments                                      R.Bleikamp
      Specs:                     Syntax:                          Edits: 98-135r2

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

M19   VOLATILE Attribute                                          S.Whitlock
      Specs: 98-191r1           Syntax:98-191r1                   Edits:191r1

M20   Allow PUBLIC Entities of PRIVATE Type                       R.Maine
      Specs: 98-123             Syntax:                           Edits:

M21   Flexible Optimization Control
      Specs: 97-263            Syntax:                            Edits:discontinued

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

M23   Access to Status Error Messages                             V.Snyder
      Specs:98-213r3            Syntax:98-213r3                    Edits:98-213r4
                                                                  Edits:99-104r2

M24   Mixed PUBLIC and PRIVATE Type Components                    R.Maine
      Specs: 98-198             Syntax: 98-198                    Edits:98-228r1

M25   Stream I/O
      Specs:98-209r1            Syntax:98-209r1                   Edits:98-211r1
```

Technical Reports from Bodies other than J3

```
T1    Floating Point Exception Handling                           J.Reid
      Specs: N1281             Syntax:                            Edits:

T3    Allocatable Structure Components                            M.Cohen
      Specs: N1282             Syntax:                            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   Standard/APproved
      A Fortran-like facility that provides the conditional compilation functionality of
      CPP, but not the other forms of preprocessing.