

ISO/IEC JTC1/SC22/WG5 N1268

X3J3/97-128

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Date: 11-Feb-1997
 To: WG5/X3J3
 From: Stan Whitlock/MISC
 Subject: MISCellaneous Requirements for F2000

WG5 has already acted on these requirements from the MISC subgroup for F2000:

- o from paper N1240:

item number	repository number	description
5.1	5	Exception Handling
9.1	63	Stream I/O
10.1	20	Command Line Args & Environ Vars
9.3	68	Any KIND of INTEGER for I/O Specifiers
6.2	42	Allow internal procedures as actual arguments, not in recursive hosts
9.6	79	Allow TAB character in formatted data
---		Allow TAB character in Fortran source
11.1	55	Regularize RANDOM_SEED
---		Packed LOGICAL arrays of bits

- o items to remove from X3J3 Minor Technical Enhancements List in 97-010:

M14 Greater than 7 dimensions

These items will be voted on for inclusion as F2000 requirements:

- o Requirement for Internationalization {I18N}:

F2000 should support ISO 10646 level 1 characters in data, literals, and comments and support dynamic locale switching, all as outlined in SC22/WG20 N477 "Guidelines for the Preparation of Programming Language Standards" and detailed in SC22/WG20 N476 "Framework for Internationalization".

This requirement specifically does not address using ISO 10646 level 1 characters in identifiers.

- o items from Van Snyder's paper 97-114r2:

3.2 Provide an intrinsic procedure that takes a status value {eg, IOSTAT= or STAT= on ALLOCATE} and returns the associated error message as a character string.

21.0 Provide a SWAP operation to swap two objects as in

```
TEMP = A
A = B
B = TEMP
```

7.0 Provide a way to determine what I/O unit number would produce the same effect as I/O to the pre-connected units

23.0 Separating Specification and Implementation in Modules

MISC strongly suggests to all groups modifying and/or reviewing text for F2000 that they examine carefully all constraints and restrictions, removing needless constraints and restrictions and adding notes to justify needed constraints and restrictions.