

## Halifax WG5 Resolutions August, 1986

### 1. *Importance of Public Review*

#### 1a. *Review prior to August 1987*

vote 7 yes-0 no-0 abstain

That WG5 believes it is vitally important that all aspects of Fortran 8x be submitted to public review as soon as possible.

#### 1b. *Form of public review document*

vote 5-1-1

The form of the document for public review should be one of (in decreasing order of preference):

- (a) with appendix features reinstated in the document, but flagged;
- (b) with appendix features reinstated in the document;
- (c) with the extension features appendix as in the August 1986 version of the S8 document;
- (d) with the appendix as in the August 1986 version of the S8 document, but described as considered but rejected features.

Further, WG5 urges that the public review period begin prior to the August, 1987 WG5 meeting.

(All X3J3 members are urged to agree to editorial processing of S8 into a form suitable for public review and to vote to forward that document even if they still have reservations about the technical content.)

### 2. *Size of Language*

vote 5-2-0

That WG5 believes that the language described in the May, 1986 S8 document is not in general too large and that a reduction in size on the scale of that contained in the August, 1986 S8 document is unnecessary, undesirable and counter to Bonn Resolution 1.

Nevertheless, WG5 accepts the excisions made from the Fortran 8x proposals only on the understanding that these will expedite production of a new international standard.

### 3. *Temporary Nature of an extension features appendix*

vote 7-0-0

That WG5 recommends that the final document not contain an appendix of suggested extension features.

### 4. *Consultation between WG5 and X3J3*

vote 7-0-0

That WG5 wishes to be consulted before X3J3 adopts any major change in direction.

### 5. *Distribution of Information*

vote 7-0-0

That WG5 requests its convenor to identify individuals in WG5 who will undertake to copy and circulate quickly, in their respective regions, a brief (few-page) summary immediately after each X3J3 meeting of the major actions taken and problems encountered or unresolved. Further, the WG5 convenor should recruit from X3J3 members present at each meeting a small ad hoc WG5 subgroup to prepare this paper and to forward it to the distributors.

### 6. *WG5 Schedule*

vote 7-0-0

WG5 requests X3J3 to draw up and circulate to WG5 by 31 October 1986 a revised time schedule for the DP and DIS stages of the ISO Fortran 8x standard, for inclusion in the WG5 convenor's report to the November 1986 meeting of the TC97/SC22 Advisory Group.

### 7. *ISO Documents*

vote 7-0-0

That WG5 requests its convenor, with the advice of the SC22 secretariat on which constitute the latest versions, to circulate to all WG5 and X3J3 members:

- relevant extracts from ISO directives;
- TC97 operating procedures as they apply to working groups;
- SC22 principles of operation.

### 8. *Document Numbering*

vote 5-0-2

That WG5 requests its convenor to adopt the "permanent" document numbering system described in SC22/N190.

### 9. *Language and Style*

vote 6-0-1

That WG5 advises that the language and style of the August 1986 version of the S8 document, irrespective of technical content, should be improved prior to public review.

10. *Processor Conformance*

vote 7-0-0

That WG5 believes that Section 1.4 of the August 1986 version of the S8 document should be revised in order to include the meaning described by the following statements.

A processor conforms to this standard if:

- (a) it executes standard conforming programs in a manner that fulfills the interpretations prescribed herein;
- (b) it contains the capability to detect and report the use within a submitted program of a permitted additional form (see below) or of a form designated herein as obsolete, obsolescent or deprecated;
- (c) it is accompanied by documentation which defines the additional forms and relationships which it allows and describes the means of reporting the use of permitted additional forms, or obsolete, obsolescent or deprecated forms as required above.

The documentation should include processor-defined parameters and default values.

11. *Pointers*

vote 6-1-0

In spite of some feelings that the language is too large, WG5 feels that a major feature that is lacking in the current S8 is that of a pointer facility.

12. *Data Abstraction*

vote 5-0-2

That WG5 recommends that the Fortran 8x standard contains an adequate data abstraction facility. (This can be accomplished by reinstatement of structure constructors and operator overloading.)

13. *Deprecated Features*

vote 5-0-2

That WG5 recommends that only one category of deprecated features should be designated in Fortran 8x and that these features should be considered for possible deletion during the development of the next Fortran standard. The contents of this category should consist of the deprecated and the obsolescent features of the August 1986 version of the S8 document.

14. *Significant Blanks*

vote 7-0-0

That WG5 believes that significant blanks are logically associated with free source form and that the appropriate time to introduce this feature is at the same time as the free source form, even if no syntax in Fortran 8x is dependent on its presence. The presence of significant blanks in Fortran 8x will give greater flexibility for the future development of the language.

15. *Random Intrinsic Procedure (Bonn Resolution 16)*

vote 7-0-0

That WG5 recommends that a RANDOM intrinsic procedure be added to Fortran 8x.

16. *Character Intrinsic Functions (Bonn Resolution 25)*

vote 4-0-3

That WG5 supports the extension of the character intrinsic functions ISCAN, VERIFY and INDEX as proposed by the Canadian Working Group and as subsequently submitted to X3J3 (see document X3J3/191, p. 94).

17. *Translate Function (FAILED)*

vote 2-3-2

That WG5 supports the inclusion of the TRANSLATE character intrinsic function as proposed by Mr. Shen (see WG5, Halifax, document # 2, WG5 Informal Letter Ballot p.23 of 31)-

18. *Allocatable Scalars (Bonn Resolution 28) (FAILED - individual vote 11-15-6)*

vote 3-1-3

That WG5 wishes to allow a scalar of any type to be allocatable.

19. *Structure Constructors*

vote 7-0-0

That WG5 recommends the reinstatement of structure constructors.

20. *Operator Renaming*

vote 6-0-1

That WG5 recommends that X3J3 investigate the possibility that defined operators being used from a module may be renamed in the USE statement.

21. *Internal Procedure Control (FAILED)*

vote 2-2-3

That WG5 recommends that the USE functionality in internal procedures be reinstated.

22. *Name-directed I/O*

vote 4-0-3

That WG5 recommends that any name-directed input/output facility in Fortran 8x be based on that described in August 1986 version of the S8 document, and not on current implementations, in order to avoid potential conflicts and ambiguities.

23. *Procedure Interfaces (Bonn Resolution 24)*

*vote 7-0-0*

That WG5 wishes X3J3 to provide a response to Bonn Resolution 24.

24. *Vote of Thanks*

*vote 7-0-0*

That WG5 would like to express its appreciation to the Convenor, Jeanne Martin, the Chairman, Jeanne Adams, the organizer, Bert Buckley, to Dalhousie University and its staff, and to all those organizations who have provided further support and have contributed to the success of the meeting (see document # 52).

25. *Appreciation of X3J3 Work*

*vote 6-0-1*

That WG5 expresses its appreciation of the work of the X3J3 committee in developing the Fortran 8x proposals on behalf of the worldwide Fortran community.