LIVERPOOL RESOLUTIONS

AUGUST 3RD - 7TH, 1987

R1 SUBMISSION OF S8 TO SC22

That WG5 confirms the action of its convenor in forwarding S8.104 to SC22 for processing as a Draft Proposed Standard.

28-7-0   7-2-0

R2 FRENCH TRANSLATION

That WG5 appreciates the offer of the French member body (AFNOR) to be responsible for the French translation of the final standard.

34-0-1   9-0-0

R3 X3J3 SCHEDULES

That WG5 explicitly states that all recommendations to X3J3 and requests for additions, deletions, study, etc. of Fortran 8X features contained in the Liverpool resolutions should be processed by X3J3 in a way which does not delay the public comment process.

31-3-1   8-1-0

R4 STATUS OF HALIFAX RESOLUTIONS

That WG5 thanks X3J3 for its work in response to the Halifax resolutions, acknowledges receipt of N227 (Status of Halifax Resolutions) and notes that no further work. is requested of X3J3 on those resolutions.

31-0-4   9-0-0

R5 RESOLUTION LIFE CYCLE

That WG5 now establishes a standing operating procedure whereby reporting of actions and responses to resolutions shall not be carried forward beyond the next regularly scheduled WG5 meeting, and that unresolved resolutions from the previous meeting shall be withdrawn unless they are the subject of explicitly reaffirmed or amended resolutions.

35-0-0   9-0-0

R6 CONTENT OF RESOLUTION RESPONSE DOCUMENT

That WG5 requests its convenor to ensure that responses to WG5 resolutions shall be recorded in a document which includes the following for each resolution:

1.   the full text of the resolution, including the WG5 voting figures.
2.   the response, including the voting figures and explanation where relevant.

35-0-0   9-0-0

R7 TEMPORARY NATURE OF AN EXTENSION FEATURES APPENDIX (cf. Halifax 3)

That WG5 reaffirms its Halifax resolution 3 (1986), namely that WG5 recommends to X3J3 that the final published document not contain an appendix of suggested extension features.

23-9-3   8-1-0

R8 POINTERS (cf. Halifax 11)

That WG5 reaffirms the intent of Halifax resolution 11 (1986), namely that WG5 feels that a major feature that is lacking in the current S8 is that of a pointer facility.

22-3-10   8-0-1

R9 POINTERS AND IDENTIFY

That WG5 recommends that if pointers are adopted by X3J3 they should either be integrated into the Identify facility, or else the latter facility should be deleted.

13-9-13   3-2-4

R10 DEPRECATED FEATURES (cf Halifax 13)

That WG5 withdraw its Halifax resolution 13 (1986).

30-0-5   7-0-2

R11 DECREMENTAL FEATURES

That WG5 recognises the motivation for splitting decremental features in Fortran 8X into two different classes.

However, WG5 requests X3J3 to consider the possibility of identifying both obsolescent and deprecated features in the text of the standard, consistent with the requirement imposed on processors for detecting both classes of decremental features.

28-4-3   8-0-1

R12 SIGNIFICANT BLANKS (cf. Halifax 14)

That WG5 reaffirms the intent of Halifax resolution 14 (1986), namely 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 and will simplify development of software tools.

WG5 notes the response prepared by X3J3 to Halifax resolution 14 but requests X3J3 to reconsider this matter as part of its processing of the comments received during the public review period.

26-8-1   9-0-0

R13 NAME-DIRECTED I/O (cf. Halifax 22.)

That WG5 withdraw its Halifax resolution 22 (1986).

23-6-6   5-0-4

R14 LANGUAGE AND STYLE

That WG5 appreciates that X3J3 has made significant improvements in the readability of S8, and particularly wishes to thank Lloyd Campbell and Walt Brainerd for their efforts.

WG5 suggests to X3J3 that the index be improved and that more examples be added.

35-0-0   9-0-0

R15 SECTION NOTES

That WG5 requests X3J3 to introduce some reference mechanism between the text of the standard and the section notes.

27-4-4   9-0-0

R16 REVISION INDICATION

That WG5 suggests to X3J3 that each succeeding internal draft of Fortran 8X have some indication of changes and deletions with respect to the previous draft.

25-5-5   9-0-0

R17 PROGRAM SIZE AND COMPLEXITY

That WG5 requests that X3J3 investigate the possibility that a standard conforming processor should be capable of detecting and reporting violation of its processor dependent limits on program size and complexity.

    20-9-6   7-1-1

R18 USAGE OF INTERFACES

That WG5 requests that X3J3 add more examples to clarify definition and usage of the concept of interfaces.

    33-0-2   9-0-0

R19 MULTIPLE CHARACTER SETS

That WG5 recommends that X3J3 in cooperation with the Japanese member body add a facility to the Fortran language to manipulate as data within a single program unit more than one character set, with very different numbers of characters in each set, so as to allow for the use within Fortran of natural languages such as Chinese or Kanji. Further WG5 recommends that such a facility accommodate mixtures of characters from different character sets in input and output.

    24-1-10   7-0-2

R20 REFERRAL TO SC22 OF PROCESSING IDEOGRAPHIC LANGUAGES

That WG5 requests its convenor to report to SC22 the concerns of WG5 that projects in the programme of work of SC22 and related committees allow for the processing of ideographic languages such as Chinese and Kanji in a consistent and efficient manner.

    34-0-0   9-0-0

R21 USE OF NATIONAL CHARACTERS

That WG5 expresses to X3J3 its concern about the negative effect on the production of standard-conforming processors if characters in the national use positions in ISO 646, such as square brackets, are required in the Fortran 8X character set.

    31-0-4   9-0-0

R22 BIT DATA TYPE

That WG5 believes that there is a significant unsatisfied demand for a BIT datatype facility in Fortran and that the need for such a facility will tend to increase during the lifetime of Fortran 8X. It therefore recommends that X3J3 review its earlier decision to remove BIT from 8X.

    22-3-10   7-0-2

R23 PASSED-ON PRECISION

That WG5 draw the attention of X3J3 to the concerns of the German member body (DIN) about passed-on precision contained in paper N245.

    25-2-8   8-0-1

R24 RANGE AND SET RANGE

That WG5 recommends to X3J3 that the RANGE and SET RANGE facilities be deleted from the language.

    12-10-12   4-3-2

R25 APPRECIATION OF X3J3 WORK

That WG5 expresses its appreciation of the significant progress made by the X3J3 committee in developing the Fortran 8X document.

    21-0-14   9-0-0

<u>R26 VOTE OF THANKS</u>

That WG5 would like to express its appreciation to the Convenor (Jeanne Martin), the Chairman (Jeanne Adams), the Secretary (David Vallance), the Drafting Committee, the organisers (Lawrie Schonfelder and Steve Morgan), the University of Liverpool and its staff (Margaret Jones and Helen Forster) and to those organisations who provided further support and have contributed to the success of the meeting (IBM, CDC, Cray and DEC).

35-0-0   9-0-0