DRAFT MINUTES OF MEETING OF

ISO/IEC JTC l/SC 22/WG 11

Place: The Hyatt Regency — Crown Center
            Kansas City, Missouri USA

Date: October 27-29, 1987

Attendees: Mr. David Joslin, BS1 (UK)
            Mr. Donald F. Nelson, Convenor (US)
            ANSI Committee, ANSI (US)

1.   Approval of agenda

      The agenda was modified slightly and approved.

2.   Approval of Minutes of Previous Meeting

      The minutes of the previous meeting were approved.

3.   Approval of convenor report

      a. Report of September 7-11 SC 22 Plenary

      (1)   Mr. Nelson was appointed convenor (no longer interim).

      (2)   Resolution 60 at that meeting requested WG 11 to:

             (a)   continue liaison with appropriate working groups
                    in SC2l and SC24.

             (b)   develop where necessary and circulate to SC22 working
             drafts
                    of existing work items, at the earliest possible time in
                    order to encourage broad participation in WGll, and

             (c)   prepare and submit to the SC22 Secretariat a list of
                    language bindings that will require SC22 individual
                    language WG attention in the coming 18 months. [A list
                    from Madeleine Sparks covering the bindings expected up to
                    October 1988 has been submitted to the SC22 Secretariat.]

      (3)   Resolution 61 at that meeting requested the language committees
      to

             consider the above list as a priority item and for them to
             appoint liaison representatives to the appropriate SC21 and SC24
             WGs

      (4)   The minutes of the plenary are SC22 N405 and the resolutions are
             SC22 N406E.

      b.   Mr. Nelson will send letters to the member bodies soliciting more
             active membership in WGl1.

4.   National Activity Report
      a. BSI IST/5/11

      Document WG11 N61 is their last report. Their next meeting is on
      December 16. They hope to have more than two members attending.

      b. ANSI X3T2

      A joint meeting was held. Document WG11 N72 is the minutes of their
      July meeting.

5.   Work Item 22.14 — Language Bindings Guidelines

      a. WG 11 N50 - Changes to Guidelines for Lang. Bindings

      b. WG 11 N51 to N53 — Replies to AFNOR, ANSI and BSI comments

      c. WG 11 N58 - Comments on Changes to Guidelines

      d. WG 11 N62 — Amendments, changes to Guidelines

      e. W6 11 N68 — Comments from WGl4 on graphics bindings

      The various comments and changes to the guidelines were discussed. A
      new version was provided by Ms. Sparks a few days before the meeting.
      Mr. Nelson will inform her of the changes made at this meeting and
      a "final" copy will be submitted to SC22 as a Draft Technical Report.

      The following motion was made by Mr. Joslin, seconded by Mr. Nelson,
      and passed unanimously: Moved that the Guidelines for Language Bindings
      be submitted to SC22 as a Draft Technical Report after a one month
      review of the version produced as a result of this meeting.

6.   Work Item 22.16 — Common Procedure Calling Mechanism

      a. WG 11 N48 -   Common Language—Independent Procedure Call Extended
                        Pascal Binding

      b. WG 11 N49 —   Common Language—Independent Procedure Call COBOL
                        Binding

      c. WG 11 N56 —   Common Language—Indeper1dent Procedure Call FORTRAN
                        Binding

      d. WG 11 N57 —   Common Language—Independent Procedure Call General
                        Description

      The discussion of this topic was held at the joint meeting with X3T2.
      The meeting of was temporarily adjourned, and a Committee of the Whole
      to include all X3T2 members present and Mr. Nelson and Mr. Joslin was
      formed.

      It was decided that the W611 framework was good, but more work had to
      be done to describe the protocols from the applications layer on down
      if mechanism is to be used for remote procedure calls. ANSI will take
      on the responsibility for developing these protocols and WG11 will
      provide the standard for the procedure calls. These two parts will be
      combined for the final standard.

7.   Work Item 22.17 - Common Data Types

      a. WG 11 N47 —   Common Language—Independent Data Types

      b. WG 11 N66 —   Common Language—Independent Set of Datatypes —

Brian Meek

c. WG 11 N67 —   LOTOS executable standard library

The discussion of this topic was held at the joint meeting with X3T2
(in the Committee of the Whole). Document N66 pointed out some problems
with N47 and we all agreed that more abstraction was needed. Therefore,
it was decided that the common data types must reference Abstract
Syntax Notation One (ASN.l — ISO 8824), and the description of the
common data types would be based on N66 (Mr. Meek's paper). ANSI will
provide the working documents for a proposed standard.

8.   Other business

   a.   Liaison mechanism

         Little or nothing is being done in this area.

   b.   Registration of prefixes

         WGll will have to establish a registration of prefixes used in
         language bindings for graphics, SQL, and other products. Some
         bindings have already established such prefixes (C for CGI, G for
         GKS, P for PHIGS) . Mr. Nelson will write a letter to SC2l/SC24
         committees about this topic.

9.   Meeting schedule

April 19-21 1988 — Middlesbrough, Cleveland, England — host Mr.
                         Joslin (meeting information attached)

October 1988 — Amsterdam, Netherlands - host Mr. Wakker.