Committee: ISO/IEC JTC1/SC22/WG11

Place: ACE Consulting bv
              Amsterdam, The Netherlands

Date: April 14-16, 1999

Attendees: Prof. Katsuhiko Kakehi   Waseda University, Japan
              Mr. Kent Karlsson   IMI, Sweden
              Mr. Roger Scowen   UK
              Mr. Willem Wakker   ACE Consulting bv, Netherlands (Convener)
              Prof. Wolfgang Walter   Technische Universita*:t Dresden, Germany

1. Agenda

It was agreed to follow the agenda, as outlined in WG11/N457.

2. Minutes of previous meeting (WG11/N444)

The following changes to N444 were made:

— Mr. Kent Karlsson is from IMI, Sweden.
— Section 11: replace "Mr. Jane Stride" should be replaced by "Mrs. Jean Stride" (with apologies to Mrs. Stride).

3. Work Item 22.17 - Language-Independent Datatypes

The document is published by ITTF as IS 11404:1996.

4. Work Item 22.16 - Language-Independent Procedure Calling

The document is published by ITTF as IS 13886:1996.

5. WDTR 14369 - Language-Independent Service Specification

Since the last meeting the document has passed the SC22 PDTR Registration ballot and the SC22 PDTR approval ballot with no NO votes and only easy-to-deal with comments. The final JTC1 DTR ballot closed in March 1999, and here also the document passed without NO votes and without comments. The document for final publication will be prepared by the convener.

6. CD 10967-2 - Language-Independent Arithmetic, part 2: Elementary Numerical Functions

The 3rd CD ballot resulted in 8 YES votes, 1 YES vote with comments (USA), 4 NO votes (France, Germany, Japan and the UK); 2 SC22 P-members abstained and 7 P-members did not vote. As an O-member Sweden also submitted comments with a YES vote. The ballot comments are in WG11 N458.
During the meeting a draft DoC, as prepared by the project editor, and distributed before the meeting as WG11 N459 was discussed. Based on the discussions during the meeting the editor will prepare a final DoC.

The next version of LIA-2 will be the Final CD, and will be submitted for FCD ballot no later than the end of August 1999. If necessary, an informal interim meeting to support the editor will be held in July 1999, possibly in Dresden.

In its ballot comment Germany noted that the problem of summation of many terms, especially of floating point numbers or of simple products thereof (i.e. the dot product) is not addressed adequately. It was agreed that specifications addressing this point should be included in LIA-2. However, as no text is available at this point, and since the publication of the current text has the highest priority, it was agreed that text on this issue will be developed separately. This text can then be inserted in the document in a later stage (assuming that this does not delay the publication of LIA-2 and does not cause problems with conformance) or be used as amendment text to be submitted immediately after the current LIA-2 has been submitted for publication.

During the meeting Wolfgang Walter presented some background on interval arithmetic. It was agreed that if specifications for interval arithmetic were to be included in LIA, this should go in a separate part of the LIA series.

7. WD 10967-3 - Language-Independent Arithmetic, part 3: Complex Floating Point Arithmetic and Complex Elementary Numerical Functions

During the meeting an overview of the possible operations that will form the basis for part 3 was briefly discussed. A first draft document is expected by the next WG11 meeting.

8. Planning and Future Meetings

It was decided that the next meeting of WG11 should be scheduled to be held 6-8 weeks after the SC22 distribution of the ballot comments on FCD 10967-2. Offers to host this meeting are invited.