

11 Apr 89

MINUTES OF 10-11 APR 89 MEETING  
OF ISO/JTC1/SC22/WG14

The 10-11 Apr 89 meeting of WG14 was held in conjunction with X3J11 in Seattle WA. Host for the joint meeting was Microsoft Corporation.

By mutual agreement, most of the meeting involved simultaneous sessions with X3J11. Jim Brodie, Chair of X3J11, served as Chair of the joint meeting. The minutes of the joint meeting (a.k.a. X3J11/89-031) are attached to this document.

This document records the deliberations of WG14 alone, which occurred in parallel with part of the X3J11 meeting. Present at the meeting were:

Paul Jackson, CANADA Representative  
Derek Jones, UK Representative  
Ed Keizer, NETHERLANDS Representative  
P.J. Plauser, USA Representative and Convenor  
Keld Simonsen, DENMARK Representative  
John van Brummen, NETHERLANDS

By mutual consent, Keizer served as Chair for the meeting. Plauser served as secretary.

1) C++ Standardization

Keizer requested that Plauser respond to the ISO request for guidance from WG14 on the standardization of C++. Plauser agreed to convey the straw votes held during the X3J11 joint meeting.

2) Minutes of Previous Meeting

Jones presented WG14 N090, an alternative to the minutes of the 13-14 Jun 88 meeting in London circulated as N056. He asserted that N090 represented the original minutes, and hence were more accurate than N056, although they differ in no substantive way.

The minutes (N090) were accepted without objection. Keizer, however, observed that he found N090 too cryptic to serve as minutes for review by the general membership of ISO. Keizer also noted that the earlier minutes (N056) should have been sent to the SC22 secretariat much earlier. Plauser acknowledged the lapse.

3) Danish Position

There was some discussion of the requirement by Denmark that

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the C standard be modified to provide more readable alternatives to trigraphs within the ISO 646 common character set.

Keizer and Plauser asserted that they supported the change request at the previous WG14 meeting to ensure the best possible hearing before X3J11. They were not, however, adamant that the change be made.

Plauser/Jackson

"Move we withdraw the WG14 request that X3J11 change its draft along the lines of N052 and N054."

Simonsen objected strongly that such a move would have serious consequences. He felt that it would show that WG14 was not working toward consensus.

Motion carried, 4/1/1.

Denmark voted no.

#### 4) UK Position

There was some discussion of the UK requirement that undefined behavior be more strictly spelled out.

Plauser supported having BSI produce a document denumerating all identifiable instances of undefined behavior. With review by WG14 and X3J11, he felt it would be a useful supplement to the C standard, in the form of a technical report.

Simonsen expressed a strong preference for making actual editorial changes to the ISO standard.

Plauser/Jackson

"Move we support BSI producing an addendum on undefined behavior in C, for submission to X3J11 by WG14 as a Technical Information Bulletin, with the understanding that we will endeavor to get it also published as ISO commentary."

Motion carried, 6/0.

Simonsen commented that he would rather see the changes made to the standard proper, since that would be less messy.

Jones concurred, but said he was willing to accept the extra details in the form of an addendum.

#### 6) Synchronization

Simonsen repeated his request that more effort be made to synchronize the work of X3J11 and WG14 by following the guidelines outlined in SC22 N555.

Jackson felt that such procedures would have been appropriate one to two years earlier, but that the ANSI standard is now

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too far along.

Simonsen/Jones

"Move we ask X3J11 to delay sending their draft to ANSI until the ISO DP ballot is successful."

Motion defeated, 2/3/1.

7) Response to DP Ballot

There was some discussion about how to proceed once the balloting on DP9899 concludes in June. Plauger agreed to assemble all comments, summarize them, and circulate them among WG14. He asked for guidance if he could not reconcile any no votes by communicating with any objectors.

Jackson suggested that, if the number of no votes could be made sufficiently small, it made sense to proceed with the DIS balloting.

Plauger/Jackson

"Move we submit the draft for DIS balloting if no more than 2 no votes are unresolved by mail; otherwise we must convene another meeting of WG14 to resolve remaining differences."

Motion carried, 4/1/0.

Simonsen suggested we proceed to assign a project editor, in the eventuality that further editing of the draft is required. Keizer observed that the USA is obliged, under ISO rules, to provide the editorship as owner of the original draft.

Plauger was granted discretion in fixing the time and place of the next meeting, if one is required. He acknowledged that a venue in Europe is generally preferred.

8) Action Items

Jones agreed to make a case before BSI that the current X3J11 draft should be accepted, with the understanding that an addendum meeting the needs of BSI would be well received by WG14 and X3J11.

Simonsen asked for guidance in how to proceed. Plauger suggested that Denmark also draft an addendum describing a uniform way to represent C programs more readably using ISO 646. Keizer suggested that some form of character mapping early in translation offered the best solution.

9) Adjournment

WG14 agreed to rejoin X3J11 to conclude both meetings.

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