Minutes

PL22.16 Meeting No. 59
15-19 October 2012 Portland, Oregon, USA

1. Opening activities

Clamage opened the meeting and welcomed the newcomers.

1.1 Opening comments, welcome from host

Tom Plum welcomes the attendees and provides organizational information.

1.2 Introductions

Clamage has the attendees briefly introduce themselves.

1.3 Meeting guidelines (Anti-Trust)

- http://www.incits.org/inatrust.htm

Clamage presented the anti-trust links and clarified that he is not allowed to explain the anti-trust documents nor answer questions on them.

1.4 Membership, voting rights, and procedures for the meeting

Nelson explained the membership and voting rights and clarified that the rights apply to formal votes but not to straw polls taken.

1.5 Agenda review and approval
Clamage entertained a motion to approve the agenda (document PL22.16/12-0063 = WG21/N3373), moved by Clow, seconded by Liber. Unanimous.

1.6 Approval of the minutes of the previous meeting

Moved by Nelson, seconded by Hedquist, unanimous.

1.7 Editor's report, approval of draft

Du Toit summarized the editor's report, saying that there were 50 core issues and two dozen library issue resolutions added to the working draft.

Draft approval moved by Du Toit, seconded by Halpern, unanimous.

1.8 Liaison reports (including WG21 study groups)

Sutter reports on SC22 status

Sutter then introduced isocpp.org.

Plum then made a short report about the C committee.

For WG23 (security/vulnerabilities), Plum reported.

1.9 WG progress reports and work plans for the week

Progress Reports

Each Working Group chair presents group progress and plans for the coming week.

Core Working Group (CWG)

Miller gave the status report for Core.

Library Working Group (LWG)

Meredith gave the status report for LWG

Evolution Working Group (EWG)

Stroustrup then gave his report
SG1
Boehm summarized the SG1 status.

SG2
Gregor briefly reported that the modules study group has been mostly dormant.

SG3
Dawes said that filesystem is progressing nicely.

SG4
Gustafsson covered for Kloepffer for SG4.

SG5
Wong said that SG5 (transactional memory) is aiming for a TS shipping alongside approximately 2014.

SG6
Crowl said that SG6 (numerics) has a handful of papers to look at.

1.10 New business requiring actions by the committee
2. Organize subgroups, establish working procedures.
Clamage give room information.

3. WG sessions (Core, Library, Concurrency, and Evolution).
The committee broke into the working groups and study groups.

Tuesday 16 October 8:30 a.m. – 5:30 p.m.

4. WG sessions continue.
Wednesday 17 October 8:30 a.m. - 5:30 p.m.
5. WG sessions continue.

Thursday 18 October 8:00 a.m. - 12:00 p.m.
6. WG sessions continue.

Thursday 18 October 1:30 p.m. – 5:30 p.m.
7. General session.

7.1 WG status and progress reports.

Clamage explained the purpose of the meeting to newcomers, which is to save time on Friday.

Core Working Group

Miller presented his Core Report.

Library Working Group

Meredith presented his Library report.

Evolution Working Group

Stroustrup presented EWG status, and announced two new study groups, for reflection (SG7) and concepts (SG8).

PL 22.16

Hedquist presented the PL22.16 resolutions and motions.

Miller asked what exactly it means that the library TR is used but still being withdrawn, and Plauger and Hedquist explained that the technical content of it is still being used.

Withdraw TR1, confirm Performance TR: Unanimous
Member emeritus status: Unanimous.

Approval of the delegation: Unanimous.

SG4
Gustafsson presented SG4 (Networking) status.

SG3
Dawes presented SG3 status.

SG1
Boehm presented (Concurrency) SG1 status.

SG5
Wong presented SG5 (Transactional memory) status.

SG2
Gregor presented SG2 (Modules).

SG6
Crowl presented SG6 (Numerics).

7.2 Presentation and discussion of proposed responses to public comments. Straw votes taken.

Sutter gave a brief presentation about subgroups and ISO stages.

8. WG sessions continue.

Friday 19 October 8:30 a.m. – 12:00 p.m.

9. WG sessions continue

Friday 19 October 1:30 p.m. – 5:30 p.m.
10. Review of the meeting

Clamage calls the meeting to order. Roll call shows 22 PL22.16 and 7 WG21 voting members present.

10.1 Motions

Core motions

Motion 1
Move we accept as Defect Reports all issues in "DR" status from N3383:

moved by Miller, seconded by Hedquist

.16 unanimous, wg21 unanimous

Motion 2

moved by Miller, seconded by Wong

.16 unanimous, wg21 unanimous

Motion 3
Move we accept as Defect Reports all issues in "ready" status from N3382, except for issues 129, 240, 240, 312, 1013, 1328 and 1417, and apply their proposed resolutions to the C++ Working Paper:

moved by Miller, seconded by Smith

Miller clarified that 1328 has been removed from the motion, and it will be moved in Bristol

.16 unanimous, wg21 unanimous

Library motions

Motion 1
Move we apply the resolutions of all issues in "Ready" and "Tentatively Ready" status from N3438 to the C++ Working Paper.

moved by Meredith, seconded by Clow

.16 unanimous, wg21 unanimous
Motion 2
Move we apply N3421, Making Operator Functors greater<>, to the C++ Working Paper.
moved by Meredith, seconded by Clow
.16 unanimous wg21 5-1-1 (favor-against-abstain)

Motion 3
Move we apply N3462, std::result_of and SFINAE, to the C++ Working Paper.
moved by Meredith, seconded by Hinnant
.16 unanimous wg21 5-1-1 (favor-against-abstain)

Motion 4
Move we apply the following papers, applying constexpr in the standard library, to the C++ Working Paper.
moved by Meredith, seconded by Clow
.16 unanimous wg21 6-0-1 (favor-against-abstain)

PL22.16
RESOLUTION #1:
PL22.16, the US TAG to SC22/WG21, APPROVES the following recommended answers to the Systematic Review Questions for TR 19768:2007 and TR 18015:2006.

ISO/IEC TR 19768:2007, Extensions to the C++ Library

1. Recommended action?
Withdraw

Comment:
TR 19768:2007 has been incorporated into two separate ISO/IEC Standards.
TR 19768:2007, Section 5.2, Mathematical Special Functions was adopted as ISO/IEC 29124:2010, Extensions to the C++ Library to Support Mathematical Special Functions.
The remaining Sections of TR 19768 were incorporated into ISO/IEC 14882:2011, Programming Language C++.

2. Has this International Standard been adopted or is it intended to be adopted in the future as a national standard or other publication?
NO

3. Is the national publication identical to the International Standard or was it modified?
N/A
4. Is this International Standard used in your country without national adoption or are products used in your country based on this standard?  
   YES

5. Is this International Standard, or its national adoption, referenced in regulations in your country?  
   NO


1. Recommended action?  
   Confirm

2. Has this International Standard been adopted or is it intended to be adopted in the future as a national standard or other publication?  
   NO

3. Is the national publication identical to the International Standard or was it modified?  
   N/A

4. Is this International Standard used in your country without national adoption or are products used in your country based on this standard?  
   YES

5. Is this International Standard, or its national adoption, referenced in regulations in your country?  
   NO

MOTION #1: PL22.16 APPROVES RESOLUTION #1 AS STATED ABOVE. (Hedquist/Clow)  
Roll Call Vote: (22-0-0-7)

Apple - Yes  
Bloomberg LLC - Yes  
BoostPro - Yes  
CERT Coordination Center - Absent  
Cisco Systems Inc - Absent  
DRW Holding LLC - Yes  
Dinkumware Ltd - Yes  
Edison Design Group - Yes  
Embarcadero Technologies - Absent  
Fermi National Accelerator Laboratory Absent  
Fujitsu Laboratories of America - Absent  
Gimpel Software - Yes  
Google - Yes  
Hewlett-Packard Company - Yes  
IAR Systems AB - Advisory - Absent  
IBM Corporation - Yes  
Indiana University - Yes  
Intel Corporation - Yes  
Microsoft Corporation - Yes  
NVIDIA Corporation - Yes  
Oracle - Yes  
Perennial - Yes  
Plum Hall Inc - Yes  
Red Hat - Yes
RESOLUTION #2 - Member Emeritus Status

PL 22.16 NOMINATES MR. BEMAN DAWES AND DR. WALTER BROWN FOR APPOINTMENT AS EMERITUS MEMBERS TO PL22.16.

Criteria
1. Ten years or longer as a member of PL22.16.
2. Dates of Membership/Last Organization(s) represented.
3. History of Contributions to the Committee
4. Retirement from the ICT Industry - date.

Beman Dawes

Beman Dawes was a member of PL22.16 during the period 1992 to 2010, representing himself (DAWES). During this period Mr. Dawes made immeasurable and significant contributions to the development of 1998, 2003, and 2011 ISO/IEC Standards for the Computer Programming Language C++; 2006 ISO/IEC Technical Report on C++ Performance; and the 2007 ISO/IEC Technical Report on Extensions to the C++ Library. Mr. Dawes also served as Chairman of the SC22/WG21 Library Working Group. Mr. Dawes retired in 2010. PL22.16 wishes to continue to benefit from Mr. Dawes's considerable talents and expertise in carrying out its ongoing program of work, and recommends he be appointed Emeritus Member status.

Dr. Walter E Brown

Dr. Walter E Brown has been a member of PL22.16, representing Fermi National Accelerator Laboratory, from 2000-2012. During that period, Dr. Brown made numerous and significant contributions in the development of the 2003, and 2011 ISO/IEC Standards for the Computer Programming Language C++; 2009 ISO/IEC 29124, Programming Language C++ Mathematical Special Functions; 2007 Technical Report on Extensions to the C++ Library. Dr. Brown is the Project Editor for ISO/IEC 29124, Programming Language C++ - Mathematical Special Functions and served as a member of the US Delegation to JTC1 SC22/WG21. Dr. Brown retired from Fermi National Accelerator Laboratory in March 2012. PL22.16 wishes to continue to benefit from Dr. Brown’s considerable talents and expertise in carrying out its ongoing program of work, and recommends he be appointed Emeritus Member status.

MOTION #2:

PL22.16 APPROVES RESOLUTION #2 AS STATED ABOVE. (Hedquist/Stroustrup)

RESULTS: APPROVED - UNANIMOUS

MOTION #3

PL22.16 designates the following voting members of PL22.16 as the US delegation to JTC1 SC22/WG21 for any and all WG21 meetings and teleconferences for calendar year 2013. (Hedquist/Liber)
RESULT: APPROVED - UNANIMOUS

10.2 Review of action items, decisions made, and documents adopted by the committee

None.

10.3 Issues delayed until today.

Clamage asks if there are other issues. Sommerlad announces a call for papers for a refactoring tools conference that will be taking place in Rapperswil, Switzerland.

11. Plans for the future

11.1 Next and following meetings

Sutter presented the future meetings, noting that Bristol will be a six-day meeting. Liber said Chicago will be last week of September or first week of October. Sutter stated that two meetings per year has benefits, we never have to worry whether ballots fit, and there's some room for study group meetings. Kühl reminded that ACCU is before the Bristol meeting in Bristol. Orr said that the reservation website should be the same for ACCU and the WG21 meeting, and said that it should be possible to do a single booking. Talbot asked whether it would be a good idea to push back the meeting in Chicago, to have a more balanced distribution of meetings during a year, and thought that it's better to sit indoors during bad weather than during good weather.

Meredith recommended SG chairs to cooperate with Sutter if they need face-to-face meetings.

11.2 Mailings

Nelson reviewed the following mailing deadlines:

- Post-Portland: 2 November 2012
12. Adjournment

Becker moved to thank the host. Seconded by the whole committee, unanimous approval.

Clamage entertained a motion to adjourn.

Moved by Clow, seconded by Hedquist. Unanimous.
## Attendance

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