

Agenda for Sept 30 - Oct 4, 2024  
71st MEETING OF ISO/IEC JTC 1/SC 22/WG 14  
WG 14/N3361

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## Dates and Times

30 September, 2024	09:00 – 12:00	Lunch	13:30 – 16:30
1 October, 2024	09:00 – 12:00	Lunch	13:30 – 16:30
2 October, 2024	09:00 – 12:00	Lunch	13:30 – 16:30
3 October, 2024	09:00 – 12:00	Lunch	13:30 – 16:30
4 October, 2024	09:00 – 12:00		

## Meeting Location

*Perforce Software Headquarters  
400 First Avenue North #400  
Minneapolis, MN 55401*

## Meeting information

Venue information: [n3270](#)

Meeting Scribe: [Svoboda](#)

## Local contact information

Alex Celeste [aceLeste@perforce.com](mailto:aceLeste@perforce.com)

## 1. Opening Activities

- 1.1 ~~Opening Comments (Seacord)~~
- 1.2 ~~Introduction of Participants/Roll Call~~
- 1.3 ~~Procedures for this Meeting (Seacord)~~
- 1.4 Required Reading

1.4.1 [ISO Code of Ethics and Conduct](#)

1.4.2 [ISO Guidance and Process](#)

1.4.3 [IEC Code of Conduct](#)

#### 1.4.4 JTC 1 Summary of Key Points [[N 2613](#)]

- 1.5 Approval of Previous Minutes

WG 14 Minutes, October 2023 [[N3174](#)] (motion)

- 1.6 Review of Action Items and Resolutions
- 1.7 Approval of Agenda [[n3213](#)] (motion)
- 1.8 Identify National Bodies Sending Experts
- 1.9 Note where we are in the current G23 schedule [[N 3156](#)]

## 2. Reports on Liaison and Collaboration Activities

- 2.1 ISO, IEC, JTC 1, SC 22
- 2.2 National bodies in WG 14
- 2.3 WG 21
- 2.4 WG 23
- 2.5 MISRA C (straw poll on communique)
- 2.6 Austin Group
- 2.7 Unicode Consortium
- 2.8 Other Liaison or Collaboration Activities

## 3. Study Groups

- 3.1 C Floating Point Study Group activity report ([Rajan](#))
  - IEEE 754 Committee Report
- 3.2 C Memory Object Model Study Group activity report ([Sewell](#))

[Kleynhans](#), Update from the editor for [TS 6010, Programming languages — A provenance-aware memory object model for C](#)

- 3.3 C and C++ Compatibility Study Group activity report ([Meneide](#), Nina)
- 3.4 Undefined Behavior Study Group activity report ([Svoboda](#))
  - Process for publishing educational material
- 3.5 New Study Group proposal (if applicable)
- 3.6 Infrastructure Group ([Meneide](#))

## 4. Future Meetings

- 4.1 Future Meeting Schedule

February 24 to February 28, 2025, Graz University of Technology, Graz, Austria

Fall, 2025 Candidate: [Suan Sunandha Rajabhat University](#)

Fall, 2025 CMU

- ~~4.2 Future Mailing Deadlines~~

Note: Please request document numbers by one week before these dates.

Pre-Minneapolis 2024 – 30 August, 2024

Post-Minneapolis 2024 – 31 October, 2024

## 5. Document Review

### Monday, 30 September

- [Douglas](#), ~~fopen\_s "p" and bring fopen\_s's mode closer to POSIX 202x~~ [[N3275](#)] (0.5 hours)
- [ha6](#), ~~stdarg.h wording~~ [[N3285](#)] (0.5 hours)

### Lunch Break

- [Bhakta](#), ~~Floating-point exceptions for macro replacements~~ [[N3286](#)] (0.5 hours)
- [Bhakta](#), ~~Nonsensical Parenthetical~~ [[N3287](#)] (0.25 hours)
- [Bhakta](#), ~~Give consistent wording for SNAN initialization~~ [[N3288](#)] (0.5 hours)
- [Bazley](#), ~~Standardize strnlen and wsnlen (v3)~~ [[N3326](#)] (0.5 hours)
- [Bazley](#), ~~strb\_t: A standard string buffer type (v3)~~ [[N3306](#)] (0.5 hours)
- [Celeste](#), ~~C Extensions to Support Generalized Function Calls, v3.5~~ [[N3315](#)] (0.5 hours)
- [Celeste](#), ~~Obsolete implicitly octal literals and add delimited escape sequences~~ [[N3353](#)] (0.5 hours)
- [Celeste](#), ~~`if declarations, v3~~ [[N3356](#)] (0.5 hours)
- [Celeste](#), ~~Named loops, v3~~ [[N3355](#)] (0.5 hours)
- [Celeste](#), ~~Case range expressions, v3~~ [[N3354](#)] (0.5 hours)
- [Celeste](#), ~~Strong typedefs~~ [[N3320](#)] (0.5 hours)
- [Bhakta](#), ~~Allowing stricter alignment for atomic types~~ [[N3312](#)] (0.5 hours)
- [Celeste](#), ~~User-defined qualifiers~~ [[N3321](#)] (0.5 hours)

### Tuesday, 1 October

- [Uecker](#), ~~Unspecified Sizes in Definitions of Arrays~~ [[N3295](#)] (0.5 hours)
- Generic block (1 hour)
  - [N3348](#) Uecker, ~~Matching of Multi-Dimensional Arrays in Generic Selection Expressions (updates N3290)~~ (0.5 hours)

- [Meneide](#), ~~\_Generic Realignment and Improvement, r0~~ [[N3331](#)] (0.5 hours)
- [Jecker](#), ~~Slay Some Earthly Demons II~~ [[N3340](#)] (0.25 hours)
- [Jecker](#), ~~Slay Some Earthly Demons III~~ [[N3341](#)] (0.25 hours)
- [Jecker](#), ~~Slay Some Earthly Demons IV~~ [[N3342](#)] (0.25 hours)
- [Jecker](#), ~~Slay Some Earthly Demons V~~ [[N3343](#)] (0.25 hours)
- [Jecker](#), ~~Slay Some Earthly Demons VI~~ [[N3344](#)] (0.25 hours)
- [Jecker](#), ~~Slay Some Earthly Demons VII~~ [[N3345](#)] (0.25 hours)
- [Jecker](#), ~~Slay Some Earthly Demons VIII~~ [[N3346](#)] (0.25 hours)
- [Jecker](#), ~~Slay Some Earthly Demons IX~~ [[N3347](#)] (0.25 hours)

### Lunch Break

- [Meneide](#), ~~Restartable Functions for Efficient Character Conversion, r12~~ [[N3265](#)] (0.5 hours)
- [Gustedt](#), ~~Introduce complex literals v. 2~~ [[N3298](#)] (0.5 hours)
- [Celeste](#), ~~Essential Effects for C~~ [[N3317](#)] (0.5 hours)
- [Svoboda](#), ~~Examples of Undefined Behavior~~ [[N3155](#)] (0.5 hours)
- [Meneide](#), ~~More Modern Bit Utilities, r3~~ [[N3330](#)] (0.5 hours)
- [Colomar](#), ~~VLA is a misnomer (rebuttal to n3187)~~ [[N3327](#)] (0.5 hours)
- [Colomar](#), ~~New nelementsof() operator (v3)~~ [[N3325](#)] (0.5 hours)
- [Bazley](#), ~~Survey results for naming of new nelementsof() operator~~ [[N3350](#)] (0.5 hours)

### Wednesday, 2 October

- [Stoughton](#), ~~Timezones and the strptime function~~ [[N3272](#)] (0.5 hours)
- [Celeste](#), ~~Statically Dependent Array Types~~ [[N3318](#)] (0.5 hours)
- [Ballman](#), ~~Allow zero-length operations on null pointers~~ [[N3322](#)] (0.5 hours)
- [Ballman](#), ~~How do you add one to something?~~ [[N3323](#)] (0.5 hours)
- [Thomas](#), ~~Proposal for G2Y—Decimal floating-point number—misuse of term~~ [[N3291](#)] (0.5 hours)
- [Thomas](#), ~~Proposal for G2Y—missing HUGE\_VAL suffixes~~ [[N3303](#)] (0.5 hours)
- [Thomas](#), ~~Proposal for G2Y—leftover dependency on WANT macro (updates N3304)~~ [[N3305](#)] (0.5 hours)
- [Thomas](#), ~~G2Y proposal - wording for pole error~~ [[N3324](#)] (0.5 hours)
- [Gustedt](#), ~~Tail recursion for preprocessor macros~~ [[N3307](#)] (0.5 hours)

### Lunch Break

- [Celeste](#), The `void`\_which\_binds\_, v2: typesafe parametric polymorphism [[N3316](#)] (0.5 hours)
- [Múgica](#), Array subscripting without decay (updates N3352) [[N3360](#)] (0.5 hours)
- [Bhakta](#), Give consistent wording for SNAN initialization v3 [[N3364](#)] (0.5 hours)
- [Celeste](#), Case range expressions v3.1 [[N3370](#)] (0.5 hours)

### Thursday, 3 October

- [Mollenkopf](#), Abs Without Undefined Behavior [[N3349](#)] (0.5 hours)
- [Meneide](#), Official Function Nomenclature, r0 [[N3365](#)] (0.5 hours)
- [ha6](#), stdarg.h wording... v3 [[N3363](#)] (0.5 hours)
- [Colomar](#), New \_Lengthof() operator (v4) [[N3369](#)] (0.5 hours)
- [Meneide](#), More Modern Bit Utilities, r4 [[N3367](#)] (0.5 hours)

### Lunch Break

- [Meneide](#), Restartable Functions for Efficient Character Conversion r13 [[N3366](#)] (0.5 hours)
- [Celeste](#), Named loops, v3 [[N3355](#)] (0.5 hours)

## 6. Clarification Requests

The previous queue of clarification requests has been processed.

## 7. Other Business

Scheduled for Graz:

- [Meneide](#), Official Function Nomenclature, r0 [[N3365](#)] (0.5 hours)
- [ha6](#), stdarg.h wording... v3 [[N3363](#)] (0.5 hours)
- [Melo](#), Enabling Generic Functions and Parametric Types [[N2698](#)] (0.5 hours)
- [Meneide](#), Integer Constant Expression-Initialized const Integer Declarations are Implicitly constexpr, r0 [[N3333](#)] (0.5 hours)
- [Meneide](#), \_Record types, r0 [[N3332](#)] (0.5 hours)
- [Celeste](#), `auto` as a placeholder type specifier [[N3339](#)] (0.5 hours)
- [Thomas](#), Proposal for C2Y - frexp and double-double [[N3357](#)] (0.5 hours)
- [Thomas](#), Proposal for C2Y - lingering references to imaginary types [[N3358](#)] (0.5 hours)
- [Heumann](#), Initialization of anonymous structures and unions [[N3314](#)] (0.5 hours)

Old papers that haven't been scheduled yet pending request from the author:

- [N2658](#) 2022/01/03 [Bachmann](#), Make pointer type casting useful without negatively impacting performance - updates n2484
- [N3160](#) 2023/08/20 Grüniger, Add min, max for integers to C
- [N3121](#) 2023/04/23 [Uecker](#), Forward Declaration of Parameters v2 (Updates N2780)

The following paper(s) will not be ready for this meeting:

- [MacDonald](#), Defect with wording of restrict specification [[N3025](#)]
- [MacDonald](#), Provenance-Style Specification of restrict [[N3058](#)]

## 8. Recommendations and Decisions reached

- ~~8.1 Review of Decisions Reached~~
- ~~8.2 Review of Action Items~~

## 9. Thanks to Host

## 10. Adjournment (motion)