The format of the minutes attempts, wherever possible, to follow the structure of the agenda (see Appendix A). If an agenda title is listed but there is no text for that title, it means that portion of the meeting was unscribed or that there is nothing of import to record.

1. Monday, May 12, 1997

1.1 Opening business
The meeting was called to order at 8:30am.

1.2 Meeting objectives (work plan) and Chair’s report

1.3 Adoption of agenda
Formal processing of the agenda was deferred until Tuesday morning.

1.4 Approval of Meeting 140 minutes
Approval of Meeting 140 minutes were delayed until later in the meeting.

1.5 Secretarial arrangements
Keith Bierman is acting secretary for this meeting.

1.6 NCITS/OMC report
The principal discussion topic was the chair’s report regarding the OMC meeting of the previous week, including the need for taking roll call votes for the duration of this meeting.

There was a discussion of web page creation and policies. An ad hoc subgroup was established to prepare a detailed proposal.

1.8 Treasurer’s report

1.9 Beginning membership report
The beginning membership report was delayed until later in the meeting.

1.10 Local arrangements
A group dinner cruise on a paddlewheel boat on Lake Mead was arranged by Mallory North.

1.11 Comments from members

1.12 Subgroup organization
Subgroup structure until further notice was established to be:

JOR: primarily handling requirements R1, R2, R8, MTE handling, and interpretation requests. Composed of Whitlock (Head), Adams, Dedo, Rolison, Runyan, Sacks and Bleikamp.

DATA: primarily handling requirements R3, R5, R6 and R7. Composed of Cuthbertson (Head), Cohen, Epstein, Hirchert, Maine, Smith, Martin, Snyder and Low.

INTERVAL: was broken into two subgroups. (1) to continue working on the details of intervals as intrinsic types, and (2) to work on alternate schemes (including but not limited to module and real kind= approaches). INTERVAL1 composed of Bierman(Head), Kearfott, and Warnock.
INTERVAL2 composed of Hendrickson (Head), Bleikamp, Zongaro, and Meissner. Both interval subgroups are to investigate ways of making interval arithmetic "optional".

INTEROP: An ad hoc subgroup set up to review the draft technical report on C interoperability. Composed of Zongaro (Head), Sacks, Rolison and Dedo.

Note: guests are included in subgroup assignments.

The committee then adjourned until 4:30pm.

1.13 Subgroup meetings

1.14 Subgroup reports
During the afternoon session, the chair announced that NCITS had received Dedo's and Hendrickson's membership fees.

Jeanne Adams announced her intent to join the committee as a principal member at its next meeting.

JOR called the committee's attention to papers 97-101/167 regarding R1. 97-102/168 regarding R2. Papers 156, 157, 160, 161, 162, regarding M3, M5, M6, M7, and M10. Regarding B5, papers 97-151r1, 97-152, and 97-163 represent one approach and paper 97-153 represents an alternate approach. In addition, papers 97-138r1 and 97-159 pertain to B6.

DATA called the committee's attention to papers 147 and 169.

INTERVAL1 called the committee's attention to paper 158. INTERVAL2 called the committee's attention to paper 164.

INTEROP called the committee's attention to paper 154.

The meeting was then adjourned until 8:30am Tuesday morning.

2. Tuesday, May 13, 1997
The meeting was called to order at 8:30am.

Motion: (Whitlock/Meissner) "Excuse Dedo and Hendrickson from their observer meeting". Roll Call vote #1 (Appendix F); motion passes unanimous.

Motion: (Dedo/Hendrickson) "Approve the meeting 140 minutes". Roll Call vote #2 (Appendix F); motion passes unanimous.

Motion: (Hendrickson/Dedo) "Approve the agenda as revised". Roll Call vote #3 (Appendix F); motion passes unanimous.

Membership report: There are now 19 members, thus majority is 10 and a quorum is 7. 18 members are present or represented at this meeting.

2.1 Required (R) items processing
Motion: (Martin/Meissner) "Return to consideration 97-147." Roll Call vote #4 (Appendix F); passed unanimous. The paper itself was then withdrawn by original mover and second. This procedure was deemed necessary by the Chair, because the previous meeting had tabled the paper until this meeting.
Extended technical discussion of the approaches taken by papers 97-147 and 97-169 (proposals about syntax for "procedure pointers" vs. "procedure variables"). Subgroup accepted input from the committee, and plans to return with at least an additional paper.

Technical presentation of the INTERVAL-1 paper 97-158 (Bierman/Walster presenting), about optimization (the $x^2 = ?x^2$ problem, etc.). Called attention to papers 97-170 (what is a good interval implementation) and 97-171 (simple example), 97-155 ("exceptions" in intrinsic interval functions), 97-172, 97-173 papers on interval intrinsics and NaNs. Followed by a spirited discussion.

2.2 **JOR report on Minor Technical Enhancements (MTE) status**

2.3 Interoperability TR status

2.4 Subgroup meetings

2.5 Subgroup reports

Papers for potential consideration tomorrow:

JOR: 97-101, 97-102: miscellaneous modifications (detailed in 97-177) to the papers were briefly introduced.

DATA: 97-174 including some consensus! Expect to process single inherence and polymorphism within subgroup tomorrow.

INTERVAL1: particular attention to 97-176, which may indicate that IEEE Inf is required by a processor which provides interval support. 97-175 which provides an example of why "many" intrinsic operators are "good".

INTERVAL2: no papers for tomorrow.

INTEROP: no paper for tomorrow. Miscellaneous technical and editorial issues have been uncovered in the current draft TR (97-154).

Adjourned until 8:30am wed morning.

3. Wednesday, May 14, 1997
Meeting was called to order 8:30am.

The Chair called the committee’s attention to N4562 and N4564 regarding electronic access.

3.1 **Required items processing**

JOR: technical discussion of 97-177.

DATA: 97-174 presents 4 examples illustrating syntax alternatives, presentation and technical discussion, followed by a series of straw votes.

**Straw vote:**

variable syntax ("a" options in the paper), pointer syntax ("b" options in the paper), or undecided.

6 "a" options / 7 "b" options / 5 undecided.
Straw vote: Do these procedure things have POINTER attributes? (Note: this applies to option "b" only). Very long discussion of what this straw vote means, fundamental questions, what the last vote meant. Withdrawn.

Straw vote: Allow implicit interface case, only allow explicit case (in some sense related to 97-174), or undecided?
11 allow implicit / 5 only allow explicit / 2 undecided

Straw vote: Allow arrays of procedure values?
12 yes / 3 no / 2 undecided

INTERVAL1: paper 97-176 4 logical possibilities: define an IEEE Inf only; define IEEE-ish emulation for Inf; processor defined behavior (warning/error, coredump, etc.); or (as traditional in Fortran) user mistake, program is defined as non-standard conforming (Note: these 4 are not what are in the paper as written). Technical discussion.

Straw vote: IEEE only, IEEE-ish, processor defined, or undecided?
12 IEEE only / 0 IEEE-ish / 3 processor defined / 3 undecided

INTERVAL2: expects to generate a paper for discussion for tomorrow.

3.2 MTE processing

3.3 JOR report on Category B item status

Adjourn to 3:30pm

3.4 Subgroup meetings

3.5 Subgroup reports

Ad hoc web site subgroup was identified as Wagener, North, Hirchert, and Cuthbertson.

JOR: calls J3 attention to: 97-160 (edits for M3), 97-161r1 (revision to M7), 97-162r1 (M10; only edit section is debatable. 97-156 (with changes read aloud and to be provided on server; loosely speaking the change is "integer or real" to "integer, real or character" and similarly for the others). 97-157 (M6) (revision read aloud, to be provided on server. Loosely speaking "the list of elemental functions minus a named list of exceptions (the math library and related material, no specific names were included)").

DATA: expects 97-182 and 97-183 regarding OO material to be on the table tonight. No specific action expected tomorrow.

INTERVAL1: 97-180 for straw vote tomorrow.

INTERVAL2: 97-181 enabling technology to write interval arithmetic as a module, for discussion and possibly straw votes.

INTEROP: no paper expected tonight.

Adjourned until 8:30am Thursday morning.
3.6 TAG meeting

4. Thursday, May 15, 1997

Meeting was called to order 8:30am.

The Vice-chair took over the gavel from the Chair for the remainder of the meeting in the Chair’s absence.

4.1 Required items processing

JOR: the edits from 97-160 remove from the description of the COUNT argument "...is an intent out... or to" the word "to". Note that in the Standard the "*" should be written with the mathematical multiplication symbol and change "assigns" to "defines" in the usual fashion; and an additional comma modification. As always, all modifications from the floor will be reflected in the post-meeting as a revised paper.

Motion: (Whitlock/Dedo) "Paper 97-160 moved as revised." Roll Call vote #5 (Appendix F); passed 13-4.

Motion: (Whitlock/Dedo) "The edits from 97-161r1." Revised on the floor by trimming out all the text except for the CALL statement, and to "The following constructs are equivalent". Change "a processor character set" to "the processor character set". Change "shall include" to "shall include all the lower case" (withdrawn but agreed to be clear). Roll Call Vote #6 (Appendix F); passed unanimous.

Motion: (Whitlock/Dedo) "The edits from 97-162r1." Last part of third line of page 2 sentence to "of the status of SCRATCH". Many more comments, paper withdrawn, an r2 is expected.

Motion: (Whitlock/Meissner) "Paper 97-156, as revised." Roll Call vote #7 (Appendix F); passed 15-1.

Technical discussion of the edits from 97-157, revised to enunciate the permitted list. Expected to return, in a revised form, at the next meeting, including all the specific names.

DATA: technical discussion of 97-182 and 97-183. No action taken; however, subgroup hopes to move 97-183 as specs before Friday close of business.

INTERVAL1: technical discussion of 97-180. Straw vote: the approaches as specified in the paper
0 (approach 1) / 0 (approach 2) / all (approach 3) / 0 (undecided)

INTERVAL2: technical discussion of 97-181. Straw votes were taken.
Straw vote: Should item-1 be worked on?
8 yes / 3 no / 7 undecided
Straw vote: Should item-3 be worked on?
11 yes / 4 no / 2 undecided
Straw vote: (item-5) should x+"3.14" be transformed via "magic"/automatic or require user "coercion" constructors?
11 "magic"/automatic / 5 "coercion" constructors / 1 undecided

4.2 Interoperability TR processing

The paper (file) being constructed by H. Zongaro had been corrupted but was recovered. Likely to show up as three papers this afternoon.
4.3 MTE processing

Adjourned until 4:30pm.

4.4 Subgroup meetings

4.5 Subgroup reports

JOR: update 97-160r1, 97-161r2 (already passed). 97-162r2 to be voted tomorrow. 97-184 (reworking of 97-101 as shown in 97-177 derived type I/O). 97-185 (reworked version of 102 with issues from 97-177, asynch I/O), both for “specs” to be voted tomorrow. Regarding asynch I/O, subgroup wants the addresses of each list item to be computed right away, and do the transfer synchronously. Solves a large host of problems with unpredictable behavior. Believes it disallows very little performance, but greatly simplifies both the standard and implementation. 97-184 to be voted for syntax on derived type I/O.

Straw vote: command line as in 97-151r1, 152, 163 (all at once model) vs. 153 (“POSIX” approach).

4 prefer model 1 / 14 prefer model 2 / 0 neither model / 1 undecided

DATA: 97-183r1 to be moved as specs for single inheritance. 97-190 “dark corners” paper for information.

INTERVAL1: 97-186 for straw votes

INTERVAL2: no papers expected

INTEROP: 97-123, 97-187, 97-188r1, 97-189 all about 97-154 for the PDTR.

Adjourned until 8:30am.

5. Friday, May 16, 1997

Meeting was called to order 8:30am.

5.1 Required items processing

JOR: 97-162r2 was to have been moved, but some potential problems were identified. JOR expects email about problems with the edits from interested parties. To return for the next meeting. L. Meissner promises an essay on a fundamental problem which this feature exposes.

Motion: (Whitlock/Bleikamp) "97-184, derived type I/O syntax." Miscellaneous minor editorial changes proposed and accepted (revised paper to appear in postmeeting, in the usual fashion). V. Snyder raised many issues, one notable one was <relaxation of> the prohibition on calling derived type I/O "helper" routines directly.

Straw vote: Should direct calls be prohibited?

8 prohibit / 6 allow / 2 undecided

(paper remains as written for now).

Enough issues were raised during the technical discussion, that subgroup chose to withdraw the paper. There seemed to be general consensus that while nearly done, the syntax is not complete.

Motion: (Whitlock/Bleikamp) "97-185 for syntax and modestly revised specification of asynchronous I/O." Miscellaneous modest edits proposed and accepted on the floor. Some substantive changes (such as excluding writes from undefining variables so users can continue to use them!). M. Cohen observed that the paper as written + revised might have had the effect of returning interpretation 125 (more or less the "middle" untenable situation) to a state of play. It was noted that derived type I/O was prohibited in
asynch I/O (would pure solve the problem?). The net result of the discussion was that subgroup withdrew the paper.

JOR did not report any specific action on the RFI submittals.

DATA:

Motion: (Cuthbertson/Hirchert) "97-183r1 for specifications." V. Snyder observed that one of the examples disagrees with the text (prefers that the example be correct, and that the text be repaired). Revision along the lines (after immediately extended... "A polymorphic variable can be passed to a dummy argument that is of parent type").

Roll Call vote #8 (Appendix F); passed unanimous.

A revision of 182 will be in the postmeeting.

97-190 "dark corners" paper is informational, may return next meeting.

INTEROP: 97-187, a variety of small edits were read aloud. A revised paper will be in postmeeting. In between meetings a combined 97-187 and 97-188r1 paper will be generated. As the ultimate result is a US TAG paper to ISO, no formal J3 action was required, and none was taken. The technical discussion was not scribed. It was noted that 97-189 is more in the nature of a personal paper than a subgroup report. It was observed that 97-135 contained at least one required change (#2) that has not, in fact, been made.

INTERVAL1:

Straw vote: 97-186
(a) 3 (work on relaxing the interline optimization prohibition) / 4 (new syntax) / 9 (undecided)
(b) 5 attribute / 3 syntax / 8 undecided

It was suggested that the problem the paper attempts to address can be interpreted away in the limited domain of intervals.

5.2 MTE processing

5.3 Interoperability processing

See 5.1 above.

Technical work closed at 11am.

5.4 Treasurer’s report

The treasurers report was read. The net balance is forecast to drop down to $2000 shortly. Several of the next 4 meetings will be at more expensive locations.

Motion: (North/Hlekamp) "Establish the meeting fee to be $100 until further notice."

Roll Call vote #9 (Appendix F); passed unanimous.

Motion: (North/Meissner) "Approve the treasurer’s report."

Roll Call vote #10 (Appendix F); passed unanimous.
5.5 Closing business

5.6 Future meetings
Meeting 142: The next meeting is at Beaver Run Resort in Breckenridge, Colorado. Reminder that reservations are required immediately for rooms. However, airfare is rumored to dropping near end of May. To contact the hotel use: 800-525-2253/970-453-6000/970-453-4284(fax) and email: thebeav@colorado.net (keyword X3J3 or Fortran X3J3). Shuttle information will be posted later. Break-out room arrangements to be made later. Meeting is 11-15 August 1997. Rates assured at the hotel August 10-17.

Meeting 143: November 10-14, 1997 in Las Vegas

Meeting 144: February 16-20, 1998 in Lafayette, LA. Hotel Acadia. Reservation deadline is 2 Feb 1998. It was noted that Mardi Gras is the preceding week.

Meeting 145: May, 1998 in Terra Haute, IN. The date is a bit uncertain, complicated by the confusion about the WG5 meeting schedule. To be nailed down at Beaver Run.

5.6 Review of action items
None were outstanding, and no new action items were created.

5.7 Closing membership report
D. Epstein’s membership has been terminated in that NCITS removed him, and attempts to communicate with him (with the intent to clarify his status) during this meeting were unsuccessful. B. Runyan was absent. No members in danger of losing membership. J3 has 19 members.

5.9 Next meeting agenda
Information to be gathered between meetings.

5.10 Comments from members
No scribe report supplied.

Meeting adjourned 11:30am.
Appendix A
Agenda for J3 Meeting 141

1. Monday, May 12, 1997  8:30 am
1.1 Opening business  J. Wagener
1.2 Meeting objectives (work plan) and Chair's report  J. Wagener
1.3 Adoption of agenda  J. Wagener
1.4 Approval of Meeting 140 minutes (97-150)  J. Wagener
1.5 Secretarial arrangements (if needed - K. Bierman acting this meeting)  J. Wagener
1.6 NCITS/OMC report  J. Wagener
1.7 Other reports (ISO/WG5)  K. Bierman
1.8 Treasurer's report  M. North
1.9 Beginning membership report  L. Rolison
1.10 Local arrangements  M. North
1.11 Comments from members  J. Wagener
1.12 Subgroup organization  J. Wagener
1.13 Subgroup meetings  J. Wagener
1.14 Subgroup reports (4:30 pm)  J. Wagener

2. Tuesday, May 13, 1997  8:30 am
2.1 Required (R) items processing (97-010r1, 97-155, 97-158)  Subgroup heads
2.2 /jor report on Minor Technical Enhancements (MTE) status  S. Whitlock/Champs
2.3 Interoperability TR status (N1277, 97-154)  H. Zongaro
2.4 Subgroup meetings  J. Wagener
2.5 Subgroup reports (4:30 pm)  J. Wagener

3. Wednesday, May 14, 1997  8:30 am
3.1 Required items processing (97-010r1, ...)  Subgroup heads
3.2 MTE processing (time permitting) (97-156, 97-157)  S. Whitlock/Champs
3.3 /jor report on Category B item status (97-151, 97-152, 97-153)  S. Whitlock/Champs
3.4 Subgroup meetings  J. Wagener
3.5 Subgroup reports (3:30 pm)  Subgroup heads
3.6 TAG meeting (4:00 pm)  K. Bierman

4. Thursday, May 15, 1997  8:30 am
4.1 Required items processing (97-010r1, ...)  Subgroup heads
4.2 Interoperability TR processing (N1277, 97-154)  H. Zongaro
4.3 MTE processing (time permitting) *  S. Whitlock/Champs
4.4 Subgroup meetings  J. Wagener
4.5 Subgroup reports (4:30 pm)  Subgroup heads

5. Friday, May 16, 1997  8:30 am
5.1 Required items processing (97-010r1, ...)  Subgroup heads
5.2 MTE processing (time permitting) *  S. Whitlock/Champs
5.3 Interoperability processing (if needed) (N1277, 97-154)  H. Zongaro
5.4 Treasurer's report  M. North
5.5 Closing business  L. Rolison
5.6 Future meetings  L. Rolison
5.7 Review of action items  K. Bierman
5.8 Closing membership report  L. Rolison
5.9 Next meeting agenda  L. Rolison
5.10 Comments from members  L. Rolison

Adjournment

* Includes possible consideration of approving Category B items as MTE items.
## Appendix B
### J3 Register of Documents for 1997

#### Standing Documents

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J3/97-137r1 Dedo 970213 Fortran-Like CoCo Scribe Notes (WG5-N1266)
J3/97-138r1 Ellis 970213 Content of Fortran 2000
J3/97-139 Ellis 970213 Result of SC22 Ballot on Technical Corrigendum 3 to IS 1539:1991
J3/97-140r1 Wagener 970213 Requirements Priorities
J3/97-141 Bierman 970213 Interval Intrinsics (Exceptions)
J3/97-142r2 Muxworthy 970213 Resolutions of the WG5/J3 Joint Meeting on February 10 to 14, 1997, in Las Vegas, Nevada
J3/97-143 Hendrickson 970213 Mixed Mode Interval Calculations Prohibited
J3/97-144 Bleikamp 970213 Copyin/Copyout and Async I/O
J3/97-145 Cohen 970213 Derived Type Encapsulation
J3/97-146 Reid 970213 Internationalization
J3/97-147r1 Maine 970213 Specifications and Preliminary Syntax for R.3, Procedure Pointers (97-103)
J3/97-148 Ellis 970214 WG5 Numbers for J3 Papers
J3/97-149 North 970214 Meeting 140 Treasurer's Report
J3/97-150 Meissner 970214 Meeting 140 Minutes
J3/97-151r1 Dedo 970221 Command Line Arguments and Environment Variables - Technical Specification
J3/97-152 Dedo 970221 Command Line Arguments and Environment Variables - Questions and Answers
J3/97-153 Maine 970225 Proposed Specs and Syntax for System Arguments
J3/97-154 Hennecke 970313 Interoperability of Fortran and C (First PDTR) (WG5-N1277)
J3/97-155 Kearfott 970407 Proposed Syntax - Exceptions for Interval Intrinsic Functions
J3/97-156 Meissner 970409 Syntax and Edits for M5: Extend Max and Min Intrinsics to Character Type
J3/97-157 Meissner 970409 Syntax and Edits for M6: Extend Initialization Expressions
J3/97-158 Bierman 970410 Compile Time Optimization of Point and Interval Expressions
J3/97-159 Snyder 970415 Access to Status Error Messages
J3/97-160 Dedo 970419 SYSTEM_CLOCK Fixup
J3/97-161 Dedo 970419 Lower Case and Mixed Case Syntax Elements
J3/97-162 Dedo 970419 Named Scratch Files
J3/97-163 Dedo 970424 Command Line Arguments and Environment Variables - Ideas for Straw Votes
J3/97-164 Hendrickson 970424 Preliminary Module Proposal for Interval Arithmetic
J3/97-165 Bierman 970425 RFI's from Robert Corbett
J3/97-166 Wagener 970429 Annual Report
J3/97-167 Snyder 970505 Comment on 97-101 - Functional Specifications for Derived Type I/O
J3/97-168 Snyder 970505 Comment on 97-102 - Syntax and Edits for Derived Type I/O
J3/97-169 Maine 970507 Procedure Variables
J3/97-170 Kearfott 970513 Properties of a good Interval Arithmetic Standard
J3/97-171 Kearfott 970513 Additional Thoughts on Interval Arithmetic
J3/97-172 Kearfott 970513 Handling IEEE 754 Invalid Operation Exceptions in Real Interval Arithmetic
J3/97-173 Kearfott 970513 On Handling of IEEE 754 Exceptions in Interval Relational Operators and Intrinsics
J3/97-174 Maine 970513 Procedure Variable/Pointer Examples
J3/97-175r1 Kearfott 970513 Justification for Interval Intrinsic Operators
J3/97-176 Kearfott 970513 Interval Exceptions on Non-IEEE Machines
J3/97-177 /JOR 970513 DT I/O and Async I/O Direction
J3/97-179 Wagener 970514 ISO/IEC JTC 1 N 4564 - Distribution of Electronic ISO Documents
J3/97-180 Kearfott 970514 Direction for Optimal Intervals
J3/97-181 Hendrickson 970514 Module Approach to Intervals
J3/97-182r1 Cohen 970514 Dynamic Binding and Polymorphism
J3/97-183r2 Cohen 970514 Single Inheritance Model - Type Extension
J3/97-184 Bleikamp 970514 Revised Spec. for Derived Type I/O
J3/97-185 Bleikamp 970514 Revised Syntax and Partial Edits for Async I/O
J3/97-186r1 Bierman 970515 Named Expressions
J3/97-187r1 Zongaro 970515 U.S. Comments on Interoperability PDTR Ballot
J3/97-188r1 Zongaro 970515 U.S. Comments on Interoperability PDTR Ballot (III)
J3/97-189 Hirchert 970515 Comments on C Interoperability Report
J3/97-190 Hirchert 970515 Procedure Identities: Variables, Pointers, or Something Else?
J3/97-191  North  970516  Meeting 141 Treasurer’s Report
J3/97-192  Bierman  970516  Meeting 141 Minutes
Appendix C
Future Meetings and Distribution/Secretarial Assignments

Meeting conventions:

- 4 meetings per year
- attempt to schedule second full week of month
- attempt to schedule meeting back to back with WG5 annual meeting

Future meeting schedule:

142 Aug 11-15, 1997 - Breckenridge, Colorado (L. Rolison/J. Adams/M. North, acting hosts)
   Pre-meeting distribution deadline: July 7, 1997
   Pre-meeting distribution: Electronic
   Post-meeting distribution: Electronic (K. Bierman, if needed)
   Acting secretary: J. Cuthbertson

143 November 10-14, 1997 in Las Vegas, NV (M. North, acting host)
   Pre-meeting distribution deadline: October 6, 1997
   Pre-meeting distribution: Electronic
   Post-meeting distribution: Electronic (K. Hirchert, if needed)
   Acting secretary: C. Dedo

144 February 16-20, 1998 in Lafayette, LA (B. Kearfott, host)
   Pre-meeting distribution deadline: January 12, 1998
   Pre-meeting distribution: Electronic
   Post-meeting distribution: Electronic (R. Maine, if needed)
   Acting secretary: M. Cohen

145 May, 1998 in Terre Haute, IN (M. North, host)
   Pre-meeting distribution deadline: April ??, 1998
   Pre-meeting distribution: Electronic
   Post-meeting distribution: Electronic (L. Rolison, if needed)
   Acting secretary: D. Hendrickson

Committee materials availability:

Agenda and meeting notice available at the J3 ftp site. Sent individually to other interested parties that specifically request to be sent the material either via surface mail or email.
   REQUIREMENT: Distribution 4 Weeks prior to meeting (SD-2 4.3.3)

Pre and post meeting distribution available at the J3 ftp site. Sent individually to other interested parties that specifically request to be sent the material either via surface mail or email.
   REQUIREMENT: Distribution of Pre-Meeting 2 Weeks before meeting (documents for action - two week rule:
   SD-2 4.3.4:1)

Minutes available at the J3 ftp site.
   REQUIREMENT: Distribution 4 Weeks Following Meeting Adjournment (SD-2 4.2.5, 4.3.6)
Appendix D
Committee Organization

D.1 Officers

Chair J. Wagener
Vice Chair L. Rolison
International Rep. K. Bierman
Secretary Open (rotating)
Treasurer M. North
Librarian M. North
Editor R. Maine (WG5 appointment)
Maintenance R. Bleikamp
Vocabulary Rep. K. Hirchert

D.2 Subgroups

Due the changing nature of work that needs to be accomplished as the committee moves into development of the Fortran 2000 standard, work groups generally vary from meeting to meeting as the work load dictates. The Chair suggests work groups prior to each meeting and then the membership and responsibilities of each work group are fine-tuned (usually dependent on the actual attendance) the morning of the first meeting day. For this meeting, the work groups were:

JOR: Responsible for the development and maintenance of the Journal of Development (standing document 004), primarily handling requirements R1, R2, R8, MTEs, and interpretation requests.
R. Bleikamp, C. Dedo, L. Rolison, B. Runyan, R. Sacks, S. Whitlock (Head)

HPC: [ This subgroup was folded into INTERVAL and DATA. ]

DATA Responsible for language design topics related to data and data structures such as procedure variables and parameterized derived types (primarily requirements R3, R5, R6 and R7)
J. Cuthbertson (Head), M. Cohen, K. Hirchert, K. Low, J. Martin, V. Snyder

I/O: [ This subgroup was folded into JOR. ]

INTERVAL Both interval subgroups are to investigate ways of making interval arithmetic "optional".
INTERVAL1 Responsible for the continuation of work on the details of intervals as intrinsic types.
K. Bierman (Head), B. Kearfott, T. Warnock.
INTERVAL2 Responsible for generating alternate schemes for the integration of interval arithmetic (including but not limited to module and real KIND= approaches).
R. Bleikamp, R. Hendrickson (Head), L. Meissner, H. Zongaro.

INTEROP An ad hoc subgroup responsible for reviewing the draft Technical Report on C interoperability.
C. Dedo, L. Rolison, R. Sacks, H. Zongaro (Head).

Note: Only members of the committee are included in this listing. Guests at the meeting were also assigned to the subgroups. The complete set of people for each subgroup for this meeting is listed in section 1.12.
### Appendix E
#### Membership Summary

**J3 Meeting Attendance (Principal Members)**

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<thead>
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V present and voting  
R absent but represented  
RP represented by a previous member from the same organization  
A absent and not represented  
P present but not voting  
E excused  
Q resigned  
** missed 2 of last 3 meetings  
*** LOST membership

Total Membership at beginning of Meeting: 17  
(Bierman, Cohen, Cuthbertson, Hirchert, Kearfott, Low, Meissner, North, Rosilson, Runyan, Sacks, Smith, Snyder, Wagener, Warnock, Whitlock, Zongaro)

Total Membership after Dedo and Hendrickson submitted fees to NCITS: 19

Majority: 10

Quorum: 7

Total Membership at end of Meeting: 19

Total Members Attended or Represented: 18

Total Attendees: 22 (the 19 members listed above plus J. Adams, R. Bleikamp, and W. Walster - see below)

Changes since Meeting 140:
Lost Membership:  Brainerd, Epstein, and Maine have all lost their memberships due to NCITS refusing their fee waiver requests.

New Members:  K. Low and V. Snyder

Other Changes:
    J. Adams (alternate to W. Brainerd until his membership was terminated) stated that she would apply for membership and request a fee waiver since she is retired. She intends to then name Brainerd as her alternate. This meeting will count as her observer meeting if her fee waiver request is granted.

Alternates representing principals at meeting:  J. Martin (for B. Smith)

Visitors at Meeting:  William Walster (Sun Microsystems)

Non-voting alternates present:  R. Bleikamp (alternate to R. Sacks)

Prospective members (observer meeting):  J. Adams
## Appendix F

### Table 1: Roll Call Vote Register

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### Notes:
- * indicates the person had not yet paid their NCITS fees to be reinstated as a J3 committee member.
- A blank cell indicates the member was absent for that vote.
- J. Martin (alternate) voted for principal member B. Smith.
- The motions are as follows:
  1. (Whitlock/Meissner) "Excuse Dedo and Hendrickson from the observer meeting requirement."
  2. (Dedo/Hendrickson) "Approve the minutes of meeting 140."
  3. (Hendrickson/Dedo) "Approve the agenda as revised."
  4. (Martin/Meissner) "Return to consideration paper 97-147."
  5. (Whitlock/Dedo) "Paper 97-160 as revised."
6. (Whitlock/Dedo) "Paper 97-161r1 edits."
7. (Whitlock/Meissner) "Paper 97-156 edits."
8. (Cuthbertson/Hirchert) "Paper 97-183r1 specs."
9. (North/Bleikamp) "Reset meeting fee to $100."
10. (North/Meissner) "Approve the Treasurer’s Report."
Appendix G
J3 Membership

PRINCIPALS

Keith H. Bierman
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Alternate: Michael Ingrassia

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Fax: (217) 244-2909
Alternate: Murray Freeman

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Professor of Mechanical Engineering
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Phone: (812) 877-8216
Fax: (812) 877-8025
Alternate: Patricia Brackin
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P. O. Box 6091  
Incline Village NV 89450-6091  
Email: bruny@lahey.com  
Phone: (702) 831-2500 x422  
Fax: (702) 831-8123  
Alternate: Tom Lahey

Brian T. Smith  
University of New Mexico  
Computer Science Dept.  
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