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Meeting 144 Minutes

1  Monday, February 16, 1998
   A regular meeting was held at 8:30 a.m. on Monday, February 16, 1998 in the Conference Room at the Best Western Hotel Acadiana in Lafayette, LA. Jerrold Wagener was in the chair and Craig Dedo took the minutes.

1.1 Opening Business
   Jerrold Wagener's term as Chair of J3 expired on January 31, 1998. NCITS has not notified us of his replacement. With the consent of the membership of J3, Jerrold Wagener will be Acting Chair of J3.

   Larry Rolison, the Vice Chair, has not resigned but is not expected to attend the meeting, due to work responsibilities at his new job. His term as Vice Chair officially expires on February 28, 1998.

1.1.1 Meeting 144 Objectives and Chair's Report
   Chair: Jerrold Wagener

   The chair made 5 points:
   1. Interoperability is a major concern. There are 4 major approaches:
      a. Fix up the existing Technical Report (TR)
      b. Do a binding similar to what Ada has
      c. Follow the approach in HPF-2
      d. Something like 97-189
   There is an official liaison with J11, the ANSI C Standards Committee. He is Tom McDonald, the Vice Chair of J11. His position is that the existing TR is the wrong approach.

   2. It is important to get the OOF specifications and syntax into the standard.

   3. Internationalization is a firm requirement for Fortran 2000.

   4. Interval Arithmetic. There has been no response from WG5 on the change of direction from all of interval arithmetic to the seven (7) items of interval arithmetic enabling technologies.

   5. Progress on the MTEs is not a major concern.

1.1.2 Adoption of the Agenda
   Discussion Leader: Jerrold Wagener
   Presented as mailed with changes proposed by J3 members (see Appendix A).

   Motion: Adopt the agenda with the changes as proposed by Jerrold Wagener.
   Moved: Stan Whitlock Second: Craig Dedo
   Action: Passed by unanimous consent.

1.1.3 Approval of the Meeting 143 Minutes
   Discussion Leader: Jerrold Wagener
   Reference: 97-267, Meeting 143 Minutes

   Motion: Approve the minutes as amended.
   Moved: Stan Whitlock Second: Richard Maine
   Action: Passed by unanimous consent.

1.1.4 NCITS/OMC Report
   Discussion Leader: Jerrold Wagener
1.1.5 ISO/WG5 Report
Discussion Leader: Miles Ellis, Keith Bierman

1. There are 3 ballots in progress at the international level.
   a. The TR on Floating Point Exception Handling
   b. The TR on Allocatable Extensions
   c. The Part 3 of Fortran on Conditional Compilation.
2. Fortran 95 was officially published on December 15, 1997.
3. Apparently, the officially approved document format for distributing ISO electronic documents is Microsoft Word.
4. There will need to be a revision of Part 2 of Fortran on Varying Strings.
5. There are major concerns in the international Fortran community about the apparent lack of progress on Interoperability with C and Interval Arithmetic. These will be major issues at the next WG5 meeting in June 1998.
6. Internationalization is still a firm requirement by JTC1 and SC22 for new technical projects. It is mandatory for new projects to answer questions on Internationalization. At the SC22 level, there is a new set of Technical Directions on Internationalization.

1.1.6 Treasurer's Report
Discussion Leader: Mallory North
Reference: 97-266, Treasurer's Report for Meeting 143

1.1.7 Beginning Membership Report
Discussion Leader: Kurt Hirchert

Membership Changes:
- Tim Butler left Hewlett-Packard. Richard Bleikamp is now the principal member from HP.
- Jon Steidel is now the principal member from Cray Research, a Silicon Graphics Company.
- John Cuthbertson has left Edinburgh Portable Compilers. It is unknown whether they will continue to be represented.

Current Membership: 20
Quorum: 8
One over half: 11

Members in Danger of Losing Membership:
  Keng Low (Salford Software)

Non-voting Alternates:
  Richard Maine (NASA)

Visitors:
  Miles Ellis (Oxford University; Convenor of WG5)
  Matthijs van Waveren (Fujitsu)
  Wolfgang Walter (Technical University of Dresden)

1.1.8 Local Arrangements
Discussion Leader: Baker Kearfott

1.1.9 Comments from Members
Malcolm Cohen Fortran Futures 98 will be May 14-15 in London, England.

Stan Whitlock NIST is getting out of compiler validation. Digital still has contracts which require validation. There is no F90 or F95 validation suite. EDS wants to be a NIST successor.
1.2 Subgroup Assignments
Discussion Leader: Jerrold Wagener
Reference: Appendix D

JOR - Richard Bleikamp, Craig Dedo, Dick Hendrickson, Loren Meissner, Matthijs Van Waveren, Stan Whitlock (head)
- R.1 - User-Defined Derived-type I/O
- R.2 - Asynchronous I/O
- R.4g - Interval Arithmetic - Unanticipated Needs
- R.8 - Internationalization
- Minor Technical Enhancements (MTE)
- B items

Data - Malcolm Cohen (head), Kurt Hirchert, Richard Maine, Jeanne Martin, Van Snyder
- R.3 - Procedure Pointers
- R.5 - Parameterized Derived Types
- R.6a - Inheritance
- R.6b - Polymorphism
- R.7 - Constructors / Destructors

Interval - Miles Ellis, Baker Kearfott (head), Wolfgang Walter, Tony Warnock
- R.4 - Interval Arithmetic (except for R.4g)

Interoperability - Keith Bierman, Miles Ellis, Jon Steidel, Henry Zongaro (head)
- R.9 - Interoperability with C

Interpretations - Richard Bleikamp, Malcolm Cohen, Jon Steidel, Stan Whitlock (head), Henry Zongaro

1.3 Subgroup Meetings

1.4 Subgroup Reports
Call to order at 4:30 p.m.
Recess at 4:55 p.m.

2 Tuesday, February 17, 1998
Call to order at 8:30 a.m.

2.1 F2000 R Item Processing
Motion: Approve 98-119, Fortran Character Set, as technical specification for item R.4b, Additions to Character Set, as amended.
Moved: Baker Kearfott Second: Craig Dedo
Action: Passed by unanimous consent

2.2 F2000 MTE Item Processing
Motion: Promote item B.1, VOLATILE Attribute and Statement, to MTE status and make it active work item MTE #19.
Moved: Stan Whitlock Second: Keith Bierman
Action: Passed on a counted vote by show of hands. Yes - 13 No - 1

2.3 Tutorial on issues related to R.4g - Module Enhancements for Interval Arithmetic
Title: Separating Interface from Implementation
Discussion Leader: Van Snyder
Reference: 98-104
There was no scribe for the discussion.

2.4 Subgroup Meetings
2.5 Subgroup Reports
Call to order at 4:30 p.m.

Discussion on M.18, Command Line Arguments.
There are two basic approaches:
  1. Add to the PROGRAM statement (like Java, C, C++, etc.)
  2. Use intrinsic procedures (like existing vendor extensions)

Straw Vote: Which approach do you prefer?
7 Program Statement
9 Procedures
2 Undecided

Straw Vote: Which approach is acceptable?
Program Statement 14 Yes 2 No 2 Undecided
Procedures 15 Yes 1 No 2 Undecided

Recess at 5:06 p.m.

3 Wednesday, February 18, 1998
Call to order at 8:30 a.m.
Tony Warnock in the chair.

3.1 F2000 R Item Processing
Interval
Discussion of 98-127, Control of I/O Rounding

Straw Vote: Which approach do you like?
2 Attached to I/O list item
12 Attached to FORMAT expression
5 Undecided

The Interval subgroup will refine 98-111 and come back on Thursday.

Straw Vote: Should we include the standard intrinsic functions (e.g., sin() and friends) in the scope of this work item?
0 Include 8 Exclude 10 Undecided

Data
Motion: Approve 98-121, Edits for Procedure Pointers, as edits for R.3, Procedure Pointers, as amended
Moved: Van Snyder Second: Richard Maine
Action: Passed by unanimous consent

Motion: Approve edits from 98-122, Partial Edits for R.5, PDTs, as edits for R.5, Parameterized Derived Types, as amended
Moved: Richard Maine Second: Van Snyder
Action: Passed by unanimous consent

3.2 F2000 MTE Item Processing
Motion: Promote item B.2, Allow PUBLIC Entities of PRIVATE Type, to MTE status and make it active work item MTE #20.
Action: Passed by unanimous consent.
Motion: Approve 98-123 as technical specification, syntax, and edits for MTE #20.
Moved: Stan Whitlock Second: Malcolm Cohen
Action: Passed by unanimous consent.

Motion: Approve 98-120, Additional Edits for M.5: Extend Max & Min Intrinsics to CHARACTER Type.
Moved: Loren Meissner Second: Stan Whitlock
Action: Withdrawn. The edit is not necessary.

Discussion on 98-124, Explicitly Typed Array Constructors.
Discussion Leader: Richard Maine
Straw Vote: Should we investigate explicitly typed array constructors along these general lines?
15 Yes 0 No 3 Undecided

Discussion on 98-132, Interoperability with C Specifications
Discussion Leader: Henry Zongaro
Straw Vote: Should the specification support function pointers?
17 Yes 0 No 0 Undecided
Straw Vote: Should the specification support the dereferencing of C pointers on the Fortran side?
5 Yes 0 No 13 Undecided

3.3 Subgroup Meetings

3.4 Subgroup Reports
Call to order at 4:30 p.m.
Jerrold Wagener in the chair.

Recess at 4:53 p.m.

4 Thursday, February 19, 1998
Call to order at 8:30 a.m.

4.1 F2000 R Item Processing
Motion: Approve 98-134, Edits for Derived-Type I/O, as edits for R.1, Derived-Type I/O.
Moved: Richard Bleikamp Second: Stan Whitlock
Action: Withdrawn.

Motion: Approve 98-111r1, 4d: Control of Interval Arithmetic rounding, specs, and Syntax, as preliminary technical specification for R.4d, Control of I/O Rounding.
Moved: Baker Kearfott Second: Craig Dedo
Action: Passed by unanimous consent.

4.2 F2000 MTE Item Processing
Motion: Approve 98-131r1, M.17: Complex Constants Edits, to satisfy edits for M.17, Enhanced Complex Constants.
Moved: Stan Whitlock Second: Richard Maine
Action: Passed by unanimous consent.

Discussion on 98-135, Command Line Arguments - Specs, Syntax, Edits

4.3 Tutorial on issues pertaining to R.6b
Tutorial on Inheritance Overview
Discussion Leader: Malcolm Cohen
Reference: 98-133, Object Orientation Tutorial - R.6a, Inheritance

4.4 International Concerns
Presentation: Future of Fortran
Discussion Leader: Wolfgang Walter

4.5 Subgroup Meetings
Recess for subgroups at 12:10 p.m.

4.6 Subgroup Reports
Call to order at 3:30 p.m.

Motion: Approve 98-132r1, Interoperability with C: Specifications, as technical specifications for R.9, Interoperability with C.
Moved: Henry Zongaro Second: Craig Dedo
Action: Passed by unanimous consent.

4.8 US TAG Meeting
Recess for US TAG meeting at 4:00 p.m.

5 Friday, February 20, 1998
Call to order at 8:30 a.m.

5.1 F2000 R Item Processing
Motion: Approve 98-134r1, Edits for Derived-Type I/O, as edits for R.1, Drived-Type I/O, as amended.
Moved: Richard Bleikamp Second: Stan Whitlock
Action: Passed by unanimous consent.

Discussion on Polymorphism (Dynamic Dispatch) Syntax
Discussion Leader: Malcolm cohen
References: 98-136, R.6b - Polymorphism (Dynamic Dispatch) Syntax
98-140, Generic Type Bound Procedures

5.2 F2000 MTE Item Processing
Motion: Approve 98-112r1, VOLATILE Requirement, as technical specification and syntax for M.19, VOLATILE Requirement.
Moved: Stan Whitlock Second: Dick Hendrickson
Action: Passed by unanimous consent.

Motion: Approve 98-135r1, Command Line Arguments - Specs, Syntax, Edits, as technical specification, syntax, and edits for M.18, Command Line Arguments, as amended.
Moved: Richard Bleikamp Second: Stan Whitlock
Action: Passed by unanimous consent.

Straw Vote: Should we pursue a procedure-based approach in addition to the PROGRAM statement approach?
3 Yes 11 No 4 Undecided

Straw Vote: What approach should we take for environment variables?
10 Procedures
1 PROGRAM statement
7 Undecided
5.3 Tutorial on issues pertaining to R.9
Tutorial on Syntax for Interoperability with C
Discussion Leader: Jon Steidel
Reference: 98-139, Interop Tutorial on Syntax Direction

5.4 Closing Business

5.4.1 Work Assignments
The following table presents the work assignments that each member has accepted.

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<th>Member</th>
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<td>Draft Agenda</td>
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<td>Meeting Locations</td>
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<td>Craig Dedo</td>
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<td>Jerrold Wagener</td>
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<tr>
<td>Appendix E - Membership Summary</td>
<td>Kurt Hirchert</td>
</tr>
<tr>
<td>Appendix F - Membership List</td>
<td>Kurt Hirchert</td>
</tr>
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</table>

5.4.2 Review of Meeting 144 Action Items
Discussion Leader: Craig Dedo
There were no action items outstanding.

5.4.3 Future Meetings
See also Appendix C.

Meeting 145 is in Terre Haute, IN on May 25-29, 1998. The hotel is the Drury Inn, on the northeast corner of I-70 and US-41.

Meeting 146 is in San Diego, CA on August 10-14, 1998 at the Handler Hotel.


Meeting 150 (July or August 1999) may be in Oxford, England.

Meetings 151 - 153 (November 1999, February 2000, and May 2000) will be in Las Vegas, NV.

Meeting 154 (August 2000) will be in Seattle, WA.

The 1998 WG5 meeting will be June 8-12, 1998 in Trollhatten, Sweden.

The 1999 WG5 meeting may be in France. If they cannot host it, the UK will host it.

The 2000 WG5 meeting will be in Finland.
5.4.4 Treasurer’s Report
Discussion Leader: Mallory North
Reference: 98-141, Meeting 144 Treasurer’s Report

5.4.5 Closing Membership Report
Discussion Leader: Kurt Hirchert
See also Appendix E.

Memberships Lost:
   Keng Low (Salford Software)

Members in Danger of Losing Membership:
   Jeanne Adams & Walt Brainerd (alt.) (NCAR)
   Graham Barber & John Cuthbertson (alt.) (Edinburgh Portable Compilers)

Current Membership: 20
One Over Half: 11
Quorum: 7

Parliamentary Inquiry by Loren Meissner: Do we have a Vice Chair any longer?
Answer by Jerrold Wagener: NCITS no longer appoints the Vice Chair. J3 can have a Vice Chair if it wants one. If it does, then the Chair appoints the Vice Chair.

Jerrold Wagener, the outgoing Chair, announced that he will not attend the next two meetings, nor will he go to the WG5 meeting in Sweden. He will resign his J3 membership soon after the meeting adjourns. He will continue to maintain the J3 web page.

5.4.6 Comments from Members

There were no comments from members.

The meeting adjourned at 11:45 a.m.
Appendix A
Agenda for J3 Meeting 144
(As Adopted)

1. Monday, Feb 16, 1998  8:30 am
  1.1 Opening business                J. Wagener
      Remarks from the chair           J. Wagener
      Adoption of agenda               J. Wagener
      Approval of Meeting 143 minutes (97-267)   J. Wagener
      NCITS/OMC report                 J. Wagener
      ISO/WG5 report                   J. Wagener
      Treasurer's report               M. Ellis, K. Bierman
      Beginning membership report      K. Hirchert
      Local arrangements               M. North
      Comments from members

1.2 Subgroup organization
1.3 Subgroup meetings
1.4 Subgroup reports (4:30 pm)

2. Tuesday, Feb 17, 1998  8:30 am
  2.1 F2000 R item processing)       Subgroup heads
        S. Whitlock
  2.2 F2000 MTE item processing      S. Whitlock
  2.3 F95 interpretation processing   S. Whitlock
  2.4 Tutorial on issues pertaining to R.4g V. Snyder
  2.5 Subgroup meetings
  2.6 Subgroup reports (4:30 pm)

3. Wednesday, Feb 18, 1998  8:30 am
  3.1 F2000 R item processing        Subgroup heads
  3.2 F2000 MTE item processing      S. Whitlock
  3.3 F95 interpretation processing   S. Whitlock
  3.4 Subgroup meetings
  3.5 Subgroup reports (4:30 pm)

4. Thursday, Feb 19, 1998  8:30 am
  4.1 F2000 R item processing        Subgroup heads
  4.2 F2000 MTE item processing      S. Whitlock
  4.3 F95 interpretation processing   S. Whitlock
  4.4 Tutorial on issues pertaining to R.6b M. Cohen
  4.5 International Concerns         W. Walter
  4.6 Subgroup meetings
  4.7 Subgroup reports (3:30 pm)
  4.8 TAG meeting (4:00)            K. Bierman

5. Friday, Feb 20, 1998  8:30 am
  5.1 F2000 R item processing        Subgroup heads
  5.2 F2000 MTE item processing      S. Whitlock
  5.3 F95 interpretation processing   S. Whitlock
  5.4 Tutorial on issues pertaining to R.9 J. Steidel
  5.5 Closing business
      Review of action items (if any) M. North
      Future meetings
      Treasurer's report M. North
      Closing membership report K. Hirchert
      Comments from members

Note: "MTE item processing" includes consideration of "B" items as MTE candidates
## Appendix B
### J3 Register of Documents for 1998

#### Standing Documents

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<td>Register of Documents</td>
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<tr>
<td>J3/98-001</td>
<td>Membership List</td>
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<td>J3/98-002</td>
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<td>J3/98-003</td>
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<td>J3/98-004</td>
<td>Journal of Requirements</td>
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<td>J3/98-005r1</td>
<td>J3 Resolutions and Responses to WG5 Resolutions</td>
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<td>J3/98-006</td>
<td>Defect Report</td>
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<td>J3/98-007</td>
<td>Draft Revision to Fortran 2000</td>
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<td>J3/98-008</td>
<td>Editorial Considerations for 9X Draft Revision</td>
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<td>J3/98-009</td>
<td>Technical Proposals for Future Revisions</td>
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<td>Fortran 2000 Work Plan</td>
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#### 1998 Papers

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<td>J3/98-100</td>
<td>971112</td>
<td>Clodius</td>
<td>Multimethods and OOF</td>
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<td>971120</td>
<td>Maine</td>
<td>Interpretation Request: Character Array Constructors</td>
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<td>Wagener</td>
<td>Inheritance, Java Style</td>
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<td>Snyder</td>
<td>Enhancing Modules I - Separate Interface and Implementation</td>
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<td>Snyder</td>
<td>Enhancing Modules II - Extensibility for Object Oriented Programming</td>
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<td>Maine</td>
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<td>J3/98-111r2</td>
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<td>Hendrickson</td>
<td>4d: Control of Interval Arithmetic Rounding, Specs and Syntax</td>
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<td>van Waveren</td>
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<td>Hendrickson</td>
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<td>Interpretation Request on Elemental Procedures</td>
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<td>Warnock</td>
<td>Fortran Character Set</td>
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<td>Meissner</td>
<td>Additional Edits for M.5: Extend Max and Min Intrinsics to Character Type</td>
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<td>J3/98-121r1</td>
<td>980217</td>
<td>Snyder</td>
<td>Edits for Procedure Pointers</td>
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Appendix C
Future Meetings and Distribution Assignments

Meeting Conventions:
- Four meetings per year
- Attempt to schedule second full week of the month
- Attempt to schedule meeting contiguous with WG5 annual meeting

Future meeting schedule:

145 May 25 - 29, 1998, in Terre Haute, IN, Mallory North, host
  Premeeting distribution deadline: May 11, 1998
  Premeeting distribution: electronic
  Post-meeting distribution: electronic
  Acting secretary: Malcolm Cohen

146 August 10 - 14, 1998, in San Diego, CA, Mallory North, acting host
  Premeeting distribution deadline: July 27, 1998
  Premeeting distribution: electronic
  Post-meeting distribution: electronic
  Acting secretary: Dick Hendrickson

147 November 9 - 13, 1998, in Las Vegas, NV, Mallory North, acting host
  Premeeting distribution deadline: October 26, 1998
  Premeeting distribution: electronic
  Post-meeting distribution: electronic
  Acting secretary: Van Snyder

148 February 8 - 12, 1999, in Las Vegas, NV, Mallory North, acting host
  Premeeting distribution deadline: January 25, 1999
  Premeeting distribution: electronic
  Post-meeting distribution: electronic
  Acting secretary: Henry Zongaro

149 May 10 - 14, 1999 in Las Vegas, NV, Mallory North, acting host
  Premeeting distribution deadline: April 26, 1999
  Premeeting distribution: electronic
  Post-meeting distribution: electronic
  Acting secretary: Kurt Hirchert

Committee materials availability:
- Agenda and meeting notice available at the J3 web site.
- Sent individually to other interested parties that specifically request to be sent the material either via surface mail or electronic mail.
- REQUIREMENT: Distribution 4 weeks prior to meeting (SD-2.4.3.3)
- Pre- and post-meeting distribution available at the J3 ftp and web sites.
- Sent individually to other interested parties that specifically request to be sent the material either via surface mail or electronic mail.
- REQUIREMENT: Distribution of pre-meeting 2 weeks prior to meeting, (documents for action - two week rule: SD-2.4.3.4:1)
- Meeting minutes are available at the J3 web and ftp sites.

--------------------------------------------------------------------------
ftp site: ftp.ncsa.uiuc.edu/x3j3/doc/meeting/144
ftp mirror site: ftp.dfrc.nasa.gov/pub/x3j3/ncsa/doc/meeting/144
--------------------------------------------------------------------------
Appendix D
Committee Organization

D.1 Officers and Management

Chair: vacant
International Rep.: K. Bierman
Secretary: Open (rotating; C. Dedo acting for this meeting)
Treasurer: M. North
Librarian: M. North
Editor: R. Maine (WG5 appointment)
Maintenance: S. Whitlock
Vocabulary Rep.: K. Hirchert
Future Meetings: M. North
Membership List: K. Hirchert

D.2 Subgroups

JOR: Responsible for the maintenance of the Journal of Development (standing document 004) and managing the following Fortran 2000 requirements: R.1, R.2, R.8, and all MTE and B items.
S. Whitlock (head), R. Bleikamp, C. Dedo, D. Hendrickson, L. Meissner

DATA: Responsible for language design topics related to data and data structures; manages the following Fortran 2000 requirements: R3, R5, R6, and R7.
M. Cohen (head), K. Hirchert, R. Maine, J. Martin, V. Snyder

INTERVAL:
Responsible for R.4 (enabling technologies for interval arithmetic).
B. Kearfott, T. Warnock, W. Walter

INTEROP:
Responsible for R9 (interoperability with C).
K. Bierman, J. Steidel, H. Zongaro

INTERP:
Responsible for evaluating interpretation requests, providing responses to such requests, and maintaining standing document 006. (The following core membership of this subgroup all have other subgroup assignments, and other members of the committee may be called upon to provide expertise for specific issues).
S. Whitlock (head), R. Bleikamp, M. Cohen, J. Steidel, H. Zongaro
### Appendix E

#### Membership Summary

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V present and voting
R absent but represented
A absent and not represented
P present but not voting
RP represented by previous member
E excused
Q resigned
** missed 2 of last 3 meetings
*** LOST membership

Changes since Meeting 143

Lost Members:
- Keng Low (Salford Software)

New Members:
- (None)

Alternates Representing principals at meeting:
- Jeanne Martin rep. Brian Smith

Nonvoting Alternates present:
- Richard Maine, alt. For Malcolm Cohen

Visitors at Meeting:
- TMR Ellis. WG5 Convenor
- Matthijs van Waveren (Fujitsu)
- Wolfgang Walter (Tech. Univ. Dresden)

Prospective Members (Observer Meeting):
- (None)

Total membership at beginning of meeting 144 19
Majority 10
Quorum 7
Total membership at end of meeting 144 18
Total members attended or represented at 144 16
Total attendees at meeting 144 19
Appendix F
J3 Membership

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Alternate: David Phillimore

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J 3 ANSI Fortran Standards Committee
Meeting 144 Minutes

Alternate to: Henry Zongaro
[WG5 Convenor] Yokohama-shi 244
JAPAN

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