MINUTES OF MEETING 121

X3J3 Fortran

May 25-29, 1992

Terre Haute, Indiana

X3J3/Meeting 121/268
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1. Agenda

X3J3 Meeting 121 Agenda

Monday, May 25, 1992

8:00 Opening Business
X3J3 Processes, Procedures, and Policies (S15)
(92-021,92-023)
Final Action on Interpretations Approved at Meeting 120 (S20)
Subgroup Meetings

J. Wagener
J. Wagener, M. Hoffert

A. Tait

Tuesday, May 26, 1992

8:00 Interpretation Processing
HPF Report
X3H5 Binding Format Proposal (92-030)
Subgroup Meetings

A. Tait, subgroups
K. Kennedy
B. Leasure, I. Philips

Wednesday, May 27, 1992

8:00 Interpretation Processing
Distribution of Documents (92-020)
2:00 WG5 L12 Subcommittee Status Report (WG5-N760)
L12 Report Discussion (92-010,92-031)
4:00 US TAG Organizational Session
(92-081,92-082)
Subgroup Meetings

A. Tait, subgroups
M. Hoffert
J. Martin
J. Wagener, I. Philips
I. Philips

Thursday, May 28, 1992

8:00 Interpretation Processing
CLIP Review (WG5-N730) - deferred
JOD Report (S17) - deferred
X3H5 Proposal
Subgroup Meetings

A. Tait, subgroups
K. Hirchert
K. Bierman

Friday, May 29, 1992

8:00 X3H5 Proposal Vote
Interpretation Processing
Closing Business
Document Editor
Document Numbering (92-023)
Membership
Future Meetings
(distribution deadline June 29 to Linda O'Gara)
Treasurer's Report
Electronic Document Processing
Parallel Processing Subgroup
US TAG Session (Prepare US Vote on L12)

A. Tait, subgroups
M. Hoffert
I. Philips

Note - the following documents are associated with the interpretation processing agenda items:
1. OPENING BUSINESS

2.1 Opening Remarks

Discussion Leader: Jerry Wagener

Discussion:

1. BSR has not yet acted on Fortran 90, pending additional material from X3 (nothing more required of X3J3 - BSR action expected in June 1992)

2. Objectives of meeting 121:

Process interpretations
- complete action on interpretations started at earlier meetings
- draft responses to newly submitted requests for interpretation
- prepare S20.121

Prepare recommendation for SPARC on X3H5 request (92-030)

Adopt US position on the L12 document (92-011) (US TAG)

Other: prepare CLIP review (92-010)

act on proposal to adopt S15 (92-021)

determine 1993 meeting schedule

3. Comments:

Ivor Phillips - need to discuss electronic access/formatting of documents

Dick Weaver - need to make X3J3s work more interactive with the public

2.2 Report on the SPARC Meeting

Discussion Leader: Jerry Wagener

Reference: 92-067 (Slides from SPARC Meeting)

2.3 WG5 Report

Discussion Leader: Jeanne Martin

Reference: 92-055

Minutes/121st Meeting
2.4 Meeting Schedule (Discussion of Alternatives)

Discussion Leaders: Maureen Hoffert, Jerry Wagener

Reference: 92-018

Motion: (Hoffert/Whitlock) X3J3 should have 4 meetings in 1993

Action: vote of 15-2; motion passes; 1993 schedule as in 92-018

2.5 Treasurers Report

Discussion Leader: Mallory North

Reference: 92-029

Discussion: letter ballot passed 28-1; Lahey voting no; Ellis, McConnell, Millard not voting

Action: (Bierman/Hoffert) to excuse Himcr and Lauson from meeting 121 fee; vote 17-0

2.6 Membership Report

Discussion Leader: Maureen Hoffert

Reference: 92-019

Discussion: There are two new members at this meeting, Walt Brainerd and Richard Maine, making a total of 34 members at this meeting - a quorum is 12 and one over half is 18.

2.7 Reports and Comments from Members

Walt Brainerd - rejoined committee to work on validation suite for Fortran 90

Andrew Tait - concerned about copyright situation; would like clarification of rules

2.8 Approval of Agenda

Action: (Whitlock/Stedel) to approve agenda as modified (see page 3); unanimous consent

2.9 Approval of Meeting 120 Minutes

Action: (Philips/Whitlock) to approve minutes as distributed; unanimous consent

Minutes/121st Meeting
3. Committee Action Items

3.1 S15 Report and Discussion (X3J3 Internal Procedures)
Discussion Leader: Maureen Hoffert
Reference: 92-021 (S15 Proposal)
Discussion: general agreement on concept and content; revised content to be provided
Action: (Hoffert/Martin) to adopt S15 as described in 92-021; unanimous consent

3.2 Interpretation Processing - May 25
Discussion Leader: Andrew Tait
Reference: 92-061, 92-062, 92-063, 92-064
Action: GEN, DATA, CIO, PROC subgroups to identify their items from these documents

3.3 Interpretation Processing - May 26
Discussion Leader: Andrew Tait
Reference: 92-061, 92-062, 92-063, 92-064
Discussion: most items in these documents uniquely assigned to subgroups;
format of S20 (92-044) to be modified based on suggestions in 92-054 and 92-065

3.4 HPF Report
Discussion Leader: Maureen Hoffert (Ken Kennedy was not able to come to the meeting)
Discussion: current status is that HPF will be Fortran 90 based, with array distribution
directives, some semantic extensions (e.g., FORALL), and some new intrinsic procedures;
objective is to complete HPF definition by end of 1992

3.5 X3H5 Proposal - Preliminary Discussion of Rationale
Discussion Leader: Bruce Leasure, Ivor Philips
Reference: 92-030
Discussion: see scribe notes 92-085.
3.6 Interpretation Processing - May 27

Discussion Leader: Andrew Tait

Discussion:

Jon Steidel took Straw vote on: 1. entry points must have same length
2. entry points need not have same length, 3. Undecided. Result:
22-0-3.

Rich Bleikamp, Straw vote: 92-076 on G Edit descriptor: Change
F90 when G = 0, to be like FORTRAN 77: 12-5-4.

Andrew Tait: Format and style of interpretations. Move history field,
move, submitted by field. Add status field. Request for a model and
sample interpretation document by R. Weaver.

Discussion on What constitutes a valid S20 question? see scribe notes.

Scribe: David Philimore

Scribe Notes : Format of Interpretations.
References: 121.27, 121.43, 121.65
Date: Wednesday 27 May. 1992.

Discussion Leader: Tait.
Scribe: Phillimore.

Tait:

All interpretations must reference and be directed to a section
of the standard.

Hendrickson :
Agrees. If not then there is often no idea why the question
is asked.

Bierman:
Requiring the universe to do this is unwise. Not many know about
various sections of the standard. It's not reasonable to ask
everyone to do so.

Shepherd:
There are several interpretation questions from Japanese. Others
may have difficulties with the language and ambiguities of the
standard. Note that X3J3 represents ISO, we must help everyone
who has difficulty with the standard.
3.6 Interpretation Processing - May 27 (continued)

Brainerd:
There are other reasons to require a reference to a section. General questions can be settled without interpretation & X3J3 need not capture the discussion. We could have a Frequently Asked Questions (FAQ) list as news groups do. Interpretation is a legal process and X3J3 must get the interpretations right. Provide guidelines for general questions and keep interpretations small. E.g., on G format descriptor.

Tait:
Interpretations may arise from the absence of words in the standard - for omitted things e.g., words on the G format descriptor. X3J3 may need to declare something is an extension because there were no suitable words in the standard.

Hirchert:
X3J3 cannot allow unclear questions. X3J3 can ask the submitter for clarification - the request doesn't have to cite a section. It may be a general question, which can't be expressed other than describing a lack of something in the standard. In Fortran 77 most questions came from implementors who could read the standard.

Maine:
X3J3 must exercise judgment. X3J3 should only process formal interpretation requests. There is much email which can be resolved by discussion - an interpretation is not required. X3J3 could not keep up with email traffic. Are there reasonable grounds in a question should be the requirement to get informal interpretations changed to formal requests.

Hoffert:
Several interpretation requests just provide an example and ask if the program is legal. It's not always clear what the question is. There should always be a clarifying statement.

Agrees there is much duplication in email traffic. An FAQ would get understanding out, as would an S.20 which recorded an answer to general questions. X3J3 must take email seriously and summarize in a useful form.

Hirchert:
X3J3 should only interpret formal requests. Should not monitor other things. X3J3 members can form an interpretation request in difficult cases from email. E.g., several requests submitted by Rolison/Steidel. X3J3 must distinguish formal and informal requests. Submitters will understand.
3.6 Interpretation Processing - May 27 (continued)

Weaver:
Agrees with Brainerd. Take 1st interpretation in S.20 (119.002).
Voting yes on the response is tantamount to voting 'yes the chapter
on expressions is correct'. Does not want to go on record voting
this. X3J3 may have to help the submitter write a narrow enough
question to be answered in an interpretation. Paper 121.65 suggests
a form for interpretations. FAQs should be a footnote to the
standard if they are important enough.

Steidel:
Many folks don't know how to submit a formal interpretation
request. This is why Rolison/Steidel monitored f90-interp and
submitted requests.

Hard questions don't get answered in email - they must not be
dropped - X3J3 members should pick them up.

Whitlock:
Doesn't mind if the original question is in the form
'is this program valid', although it would be distressing if
large programs were submitted. The examples in interpretations need to
be constrained, and X3J3 should help wherever possible. X3J3 should
be willing to ask the submitter to rephrase and recast the question.

Mattoon:
There were 3 categories proposed for interpretations, perhaps we
should have one or two more which correspond to frequent or
interesting questions. Then everything could go into the S.20
for now, - it could be rearranged later. X3J3 could publish a
template or form for interpretations.

Tait:
Looking over the large batch of email which appears in the
pre-distribution, it was hard to figure out questions and threads
because of a lack of discipline among correspondents. X3J3 may lose
some references in the translation to an interpretation.

Hendrickson:
Agrees with Weaver. Opposed to questions phrased 'is this example
correct' without section references. Many of the questions in S.20
have been or should be reworded. All X3J3 members have the
responsibility to submit and to help others to submit questions
for interpretation.

No votes taken.
3.7 Distribution of Documents

Discussion Leader: Maureen Hoffert

Reference: 92-020

Motion: Hoffert/Philip s - Distribute electronically pre- and post-meeting and minutes to all who have email. Send hard copy to others. Motion withdrawn to form an ad-hoc subgroup to investigate forms and problems of electronic distribution. SV on intent of motion: 20-0-1. Electronic document processing ad-hoc subgroup: Hirchert, Himer, Brainard, Bierman, Maine, Philips. Report due Friday.

Discussion on Document Numbering: What documents need to have X3J3 numbering. X3 requirements for document numbers. Straw vote on using the new X3 numbering (e.g. x3j3/92-020) immediately without old internal numbering scheme (e.g. 121-mbsh-1): 13-1-7. Question raised of cost of X3's copy of their microfiche of our documents.
3.8 WG5 L12 Subcommittee Report and Discussion

Reference: 92-010, 92-031, 92-081, 92-082

Discussion Leaders: Martin, Philips, Wagener

Discussion: Flexibility desired; importance of getting corrigenda out; lost credibility for missing schedule; how to define a minor revision; need to accommodate organizations like HPF; needs to utilize all resources available to WG5; problems of management if WG5 meets only once a year will be in a position of only approving; standards must be a responsive process without a short term revision cannot be; could have a train ("choo-choo train model")

Straw Votes:

Allow new extensions in minor revision: 4-15-2

Have a minor revision: 10-4-7

For a task-group model: 6-9-6.

3.9 Defer agenda items on CLIP and JOO to next meeting.

3.10 Interpretation Processing - May 28

Discussion Leader: Andrew Tait
Reference: 92-041, 92-042

Discussion: Is this an appropriate topic to be placed into S20? concern of what constitutes a formal interpretation request; reducing work load; internal questions should not appear in S20; question of what is correct forum to publish, most commonly asked questions; Vote: 12-7

Failed to be included into S20. Chair rules that if brought as official interpretation then would be included into document.

3.11 Initial Discussion of X3H5 Proposal

Discussion Leader: J. Wagener
Reference: 92-030, 92-110

Discussion: Straw Vote: a. Against, X3H5 proposal; b. For X3H5 proposal; c. Work with as a Task Group; d. Undecided: 3-6-9-2.

Straw Vote: b,c,d: 15-5-0.

3.12 Final Resolution of X3H5 Proposal - May 29

Discussion Leader: Wagener
Reference: 92-110

Motion: Hoffert/Tait To adopt 92-110 - Vote: 16-4.
3.13 Interpretation Processing - May 29, 1992

CIO: 92-115,116 Motion to adopt by Brainard/Lauson
Vote: 19-0 for adoption of above.

DATA: 92-070, 92-093a, 92-084, 92-069, 92-092a, 92-0108, 92-0109a
92-083a withdrawn.
Motion to adopt above: Steidel/Martin
Edit to 92a accepted.
Vote: 19-0 adoption of motion.

GEN: 92-105, 92-107.
Motion: Hendrickson/Whitlock to adopt.
Withdrawn: 88,104,106.
Vote: 20-0, adoption of motion.

Motion: Hendrickson/Whitlock to adopt alternative 1 of 92-088.
Vote: 10-6 motion failed and returned to subgroup.

Motion: Steidel/Whitlock to adopt 92-104 with reference to Cray removed.
Vote: 20-1, adoption of motion.

PROC:
Motion: Hirschert/Hoffert to adopt: 77,79,80,91,94,95,96,97,99,
100,101,102,103
Withdrawn: 77,91,94,95,96,102,103
Vote on: 79,80,97,99,100,101: 20-0 to adopt.

Discussion on 92-091- whether incorrect or not committee completely split on issue. Returned to subgroup.

Discussion on 92-095 - committee split on intent, did not understand underlying issues. Returned to subgroup.

Motion to adopt 92-096 as amended Hirschert/Hoffert:
Vote : 12-9 (failed). Action: returned to subgroup

Discussion on 92-102 needed editing, withdrawn for subgroup.

Motion to adopt 92-102 as amended Hirschert/Hoffert after break:
Vote: 18-0 to adopt.

Discussion on 92-118 - led by Brainard, on G edit descriptor.
Straw vote to move back to FORTRAN77 definition or not 13(yes)-2(no)-6 (undecided). Returned to subgroup.
3.14 Closing Business - May 29, 1992

Membership Report: M. Hoffert

Treasurer's Report: M. North

Future Meetings: M. Hoffert. 4 per year coordinated with WG5 meetings. Distribution deadline for next meeting is 29 June to send to Linda O'Gara.

Establish a Parallel Processing Technical Subgroup: J. Wagener

Document Editor Discussion: Concerns that need an editor for consistency; need to avoid too many people editing in order to avoid inconsistencies; and task of a small group not the full committee.

Document Numbering Issues: care must be taken that when documents are copied that the number be placed on them before distribution; when have electronic processing then we can have electronic means of assigning numbers; concern about cross-referencing of other documents if do not have a document number to reference.
4. Document Lists

4.1 Current Standing Documents

X3J3/S5 General procedures for X3J3 task groups, 11 Jan 1980.
X3J3/S11 Official prepublication comments and acknowledgements (WG5-N335).
X3J3/S12 Public review comments and acknowledgments (cumulative document).
X3J3/S13 Formal public review comment responses.
X3J3/S14 Annual ISO/TC97/SC22/WG5 resolutions and X3J3 resulting actions.

The current version is document 110-64 (JLW_2; X3J3/230, p. 391).

X3J3/S15.121 Summary of X3J3 membership policies and procedures (to appear).

The latest draft is document 108-10 (X3J3/222, p. 27).


X3J3/S20.121 Approved and Draft Interpretations
4.2 Meeting 121 Document Register

X3J3 Documents for X3J3 Meeting 121 (Terre Haute, IN, May 25-29, 1992)

4.2.1 Pre-Meeting Distribution Documents: distributed in April, 1992:

- x3j3/92-000 Hoffert/MBSH-0/Register of Documents...p. 0
- x3j3/92-001 Adams/JCA-1/30-Day Letter Ballot on Boeing NO...p. 1
- x3j3/92-002 Adams/JCA-2/SD-7, Meeting Schedule and Calendar...p. 3
- x3j3/92-003 Adams/JCA-3/SD-9, Policy and Guidelines...p. 27
- x3j3/92-004 Adams/JCA-4/Boeing Letter Ballot Results...p.115
- x3j3/92-005 Adams/JCA-5/Procedures for Hosting International Mtgs...p.123
- x3j3/92-006 Adams/JCA-6/Requirements for Document Register...p.125
- x3j3/92-007 Adams/JCA-7/SD-4, Projects Manual...p.127
- x3j3/92-008 Adams/JCA-8/ANSI Information Publications...p.219
- x3j3/92-009 Moss/LJM-1/Trip Report on 120th Meeting...p.221
- x3j3/92-010 Martin/JTM-1/CLIP Working Draft...p.227
- x3j3/92-011 Martin/JTM-2/L12 Subgroup Strategic Plan...p.253
- x3j3/92-012 Steidel/JCS-1/Request for Interpretation: END...p.261
- x3j3/92-013 Steidel/JCS-2/Request for Interpretation: END...p.263
- x3j3/92-014 Steidel/JCS-3/Request for Interpretation: END...p.265
- x3j3/92-015 Steidel/JCS-4/Request for Interpretation: Statement Func...p.267
- x3j3/92-016 Steidel/JCS-5/Request for Interpretation: Interfaces...p.269
- x3j3/92-017 Steidel/JCS-6/Request for Interpretation: Generic Int...p.271
- x3j3/92-018 Wagencr/JLW/MBSH-1/Proposals for Meeting Schedules...p.273
- x3j3/92-019 Hoffert/MBSH-1/Attendance Status at End of Meeting 120...p.275
- x3j3/92-020 Hoffert/MBSH-2/Proposed Distribution Assignments...p.277
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<td>x3j3/92-022</td>
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<td>O'Gara/LJO-3/Interpretation Request...p.289</td>
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<td>Wagener/JLW-1/Looking to the Future...p.291</td>
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- x3j3/92-049 Tait/ADT-9/Griffiths Comments on the S20.120...p.683
- x3j3/92-050 Tait/ADT-10/Comments on the S20.120...p.699
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5. Committee Organization

5.1 Officers

Chair: Jerrold Wagener
Vice Chair: Maureen Hoffert
International Rep.: Ivor Philips
Secretary: to be appointed
Librarian: Linda O'Gara
Editor: Walter Brainerd
Defect Management: Andrew Tait
Vocabulary Rep.: Kurt Hirchert

5.2 Liaison Assignments

Data Interchange, X3T2: Presley Smith
Database, X3H2: Presley Smith
IEEE POSIX, Fortran binding: to be appointed
BSI Fortran Group: Miles Ellis
Parallel Processing, X3H5: Jon Steidel

5.3 Subgroups

GEN (General Concepts)
Hendrickson (head), Lahey, Lauer, Marusak, Philips, Swift, Weaver, Whitlock

DATA (Data Concepts)
Katz, Martin, Meissner, Millard, Moss, O'Gara, Ragan, Rolison, Steele

CIO (Control Constructs and Input/Output)
Brainerd, Kelsey, Lauson, Leonard, Mattoon, Oglesby, Smith

PROC (Procedures and Program Units)
Bierman, Ellis, Himler, Hirchert (head), Hoffert, McConnell, North

JOD (Journal of Development)
Bierman (head), Hoffert, Meissner, Millard

Minutes/121st Meeting
6. Future Meetings and Distribution Assignments

Four Meeting Schedule for 1993: Meeting conventions:
- 4 meetings per year
- attempt to schedule second full week of month
- attempt to schedule meetings back to back with WG5 meetings

122 Aug. 3-7, 1992 - Seattle, WA (Oglesby, host)
   pre-meeting distribution deadline: June 29, 1992
   pre-meeting distribution: Himer
   post-meeting distribution: Whitlock

123 Nov. 9-13, 1992 - New Haven, CT (Lauer, host)
   pre-meeting distribution deadline:
   pre-meeting distribution: Weaver
   post-meeting distribution: Rolison

124 Feb. 8-12, 1993
   pre-meeting distribution deadline:
   pre-meeting distribution: Leonard
   post-meeting distribution: Hoffert

125 May 10-14, 1993
   pre-meeting distribution deadline:
   pre-meeting distribution: Tait
   post-meeting distribution: Katz

126 July 12-16, 1993 - Ellis
   (Following the WG5 Meeting, July 5-9 in Bavaria)
   pre-meeting distribution deadline:
   pre-meeting distribution: Hirchert
   post-meeting distribution: Marusek

127 Nov. 8-12, 1993 - Albuquerque, NM (Lauson, host)
   pre-meeting distribution deadline:
   pre-meeting distribution: Mattoon
   post-meeting distribution: Swift

128
   pre-meeting distribution deadline:
   pre-meeting distribution: Bierman
   post-meeting distribution: Steele