

## NCITS Subgroup Annual Report

**Annual Report for:** J3  
**Covering the Period from:** April 1996 **to:** April 1997  
**Title of NCITS Subgroup:** Fortran  
**Informal Description of Work:** no change from the SD-1B

**1. Executive Summary:** Since the last annual report the DIS Ballot on Fortran 95 has passed; a couple of minor edits will be made due to some AFNOR comments. The US voted YES on the ballot, without comments. The requirements for Fortran 2000 were completed in February, 1997; the schedule has J3 delivering a corresponding "CD-quality" draft standard document to WG5 by January 2000. A few maintenance items have been identified with Fortran 95, and those will be resolved after Fortran 95 becomes an official ISO standard.

### 2. Projects:

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- a. Project Number and Title:** 0067-M, Programming Language FORTRAN (FORTRAN 77)
  - b. Target Date (Milestone 4):** N/A - standard is X3.9-1978 (Archival)
  - c. Project Description:** Maintenance of X3.9-1978 (FORTRAN 77, Archival)
  - d. Publications During Past Year:** None
  - e. Progress and Status:** No maintenance items are pending.
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- a. Project Number and Title:** 0772-M, Programming Language Fortran 90, X3.198-1992
  - b. Target Date (Milestone 4):** N/A - standard is X3.198-1992 (Fortran 90)
  - c. Project Description:** Maintenance of X3.198-1992 (ISO/IEC 1539:1991 (E), Fortran 90)
  - d. Publications During Past Year:** Final Corrigendum (No. 3) on Fortran 90 (ISO, WG5)
  - e. Progress and Status:** J3 was requested during the year to recommend reaffirmation or withdrawal of Fortran 90 as an ANSI standard. Since the publication of Fortran 95 appeared imminent, J3 requested that its consideration of this issue be deferred until after the publication of Fortran 95.
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- a. Project Number and Title:** 0966-I, Programming Language Fortran 9x.
- b. Target Date (Milestone 4):** ISO DIS passed in January 1997.
- c. Project Description:** This project specifies revision and consolidation of the ANSI and ISO Fortran 90 standards, X3.198-1992 and ISO/IEC 1539:1991, in the 1995-96 timeframe. The project resulted from the decision in the international Fortran community to produce a short-term revision of ISO/IEC 1539-1:1991 and to request J3 to develop the revision. This is a minor revision of Fortran 90, consisting mainly of incorporating the Fortran 90 defect management activities of correction, clarification, and interpretation of Fortran 90, removing certain restrictions in Fortran 90, and

adding a few new features of particular demand in the Fortran community. (Note: the “x” in 9x has become 5, and the language is now referred to as Fortran 95.)

**d. Publications During Past Year:**

- X3J3/96-000 J3 Document Register for 1996
- X3J3/96-007r1 Fortran 95 Draft Standard (DIS Document)
  
- X3J3/96-088 Minutes of Meeting 137
- X3J3/96-151 Minutes of Meeting 138
- X3J3/96-180 Minutes of Meeting 139
- X3J3/97-150 Minutes of Meeting 140

**e. Progress and Status:** All technical work on Fortran 95 was completed and publication as an ISO standard is imminent. J3 has accepted WG5’s invitation to be the maintenance body for Fortran 95.

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**3. Committee Activities:**

**a. Previous Year’s Meetings:**

- 137 May 13-17, 1996 Las Vegas, NV
- 138 Aug 12-16, 1996 Las Vegas, NV
- 139 Nov 11-15, 1996 Las Vegas, NV
- 140 Feb 10-14, 1997 Las Vegas, NV

ISO/IEC JTC1/SC22/WG5 (Fortran) met July 22-26, 1996, in Dresden, Germany, and jointly with J3 February 10-14, 1997, in Las Vegas, NV.

**b. Meetings Planned:**

- 141 May 12-16, 1997 Las Vegas, NV
- 142 Aug 11-15, 1997 Breckenridge, CO
- 143 Nov 10-14, 1997 Las Vegas, NV
- 144 Feb 16-20, 1998 Lafayette, LA

ISO/IEC JTC1/SC22/WG5 (Fortran) will meet July 21-25, 1997, in Vienna, Austria

**c. Officers:**

Chair	Jerrold Wagener 6 E. 5th St., Suite 308 Tulsa, OK 74103	Librarian, Treasurer	C. Mallory North Rose-Hulman Inst. of Tech. 5500 Wabash Ave. Terre Haute, IN 47803
Vice Chair	Lawrence Rolison Cray Research 655F Lone Oak Dr. Eagan, MN 55121	Editor	Richard Maine NASA Dryden, M/S D-1021 P.O. Box 273 Edwards, CA 93523
International Representative	Keith Bierman Sun Microsystems, Inc. Sunsoft Developer Products 2550 Garcia, UMPK16-304 Mountain View, CA 94043	Vocabulary Representative	Kurt Hirschert NCSA, University of Illinois 605 East Springfield Ave. Champaign, IL 61820
Secretary	rotating among committee members	Clarifications	Richard Bleikamp HP/Convex 3000 Waterview Parkway Richardson, TX 75083

**d. Membership:** See attachment 4.

**e. Liaison Activities:**

Ron Silletti                      OMC Liaison  
Miles Ellis                        Convenor of ISO/IEC JCT1/SC22/WG5 (Fortran)

**f. Administrative Matters of Note:** Occasionally NCITS instructs J3 to remove certain members from its membership list, without first resolving outstanding issues or alerting J3 to such pending edicts. In some cases the J3 chair has refused to comply, because of likely adverse impact on the technical work of the committee. Most such instances involve individuals who have requested waiver from the membership fee. Such individuals fall into two categories: those who find it demeaning to “beg” their organizations for funds for standards work, and those funding themselves. (Recently a related, personal communication/suggestion was sent by the J3 IR directly to the NCITS office.) This is a serious matter that appears to be getting worse and, if not resolved, will eventually adversely affect the nature and quality of J3’s technical work.

**g. Procedural Matters of Note:** None

**h. Recommendations:** J3, being a technical committee, should not be requested to remove a member for financial reasons, at least not without first making every effort to work things out with the individual and the committee. At the very least the waiver policy needs to be made clearer and more effective. More comprehensive action, such as that suggested by the J3 IR in the private communication mentioned above, should be considered.

**4. Anticipated Projects:** WG5 has scheduled a future revision of standard Fortran, informally referred to as Fortran 2000, to be finished technically by early 2000 and published as an international standard by late 2002. J3 has accepted WG5’s invitation to be the principal development body for Fortran 2000. Therefore J3 needs a new I project for this development. As principal development body, J3 will be responsible for the technical development of all Fortran 2000 requirements, other than the technical reports assigned by WG5 to other bodies, and the integration of all material, including the technical reports, into the draft standard. WG5 has approved three such technical reports: (1) floating point exception handling, (2) interoperability with C, and (3) allocatable array extensions. All Fortran 2000 requirements are listed and tracked in J3 standing document X3J3/97-010.

**5. Future Trends in Area of Standardization:**

- a. 3-5 Year Vision:** Fortran will maintain/increase its leadership in high performance numerical computation, while remaining an attractive modern language for general programming.
- b. Emerging Technologies:** High performance architectures of various kinds.
- c. Closely-related Activities:** High Performance Fortran Forum.

**Attachment 1:** Committee projects: see the NCITS SD-4 data on the NCITS web page

**Attachment 2:** No policies beyond those of NCITS

**Attachment 3: J3 Financial Statement**

X3J3/97-149

Date: February 14, 1997  
 To: X3J3  
 From: C. Mallory North, Treasurer  
 Subject: Meeting 140 Treasurer's Report

1. Meeting Attendees (joint meeting with WG5):

Jeanne C. Adams	Baker Kearfott	Reva Sacks
Keith H. Bierman	Keng Low	David Schmitt
Richard P. Bleikamp	Petri Mohinen	Gerhard Schmitt
Walter S. Brainerd	Richard E. Maine	Van Snyder
Malcolm Cohen	Jeanne T. Martin	Masayuki Takata
John Cuthbertson	Loren P. Meissner	Matthijs van Waveren
Viktor K. Decyk	Steve Morgan	Jerrold L. Wagener
Craig T. Dedo	David Muxworthy	Wolfgang Walter
T. Miles R. Ellis	C. Mallory North	Tony Warnock
Masakazu Hayashi	Charles D. Norton	Stan Whitlock
Richard A. Hendrickson	John Reid	Arnold Winkler
Michael Hennecke	Lawrence R. Rolison	Henry Zongaro
Kurt W. Hirschert	Robert L. Runyan	Manuela Zuern

2. Meeting Fee Income Received at Meeting 140: \$ 00.00

3. Meeting Expenses:

Equipment Rental:	\$ 00.00
Room Rental:	\$ 00.00
Refreshments:	\$ 467.72
Reproduction (Kinko's):	\$ 335.22
Expendable Supplies:	\$ 00.00
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Total Meeting 140 Expenses:	\$ 802.94

4. Deposits and Disbursements:

Check	Date	Amount	Balance	Transaction	Purpose
	10/31/96		4132.29	Balance Forward	
	11/30/96	5.94	4138.23	Interest Deposit	Bank Interest
157	12/ 2/96	-77.35	4060.88	VISA Payment	M139 Expenses
158	12/10/96	-189.82	3871.06	Kinko's	M139 Reproduction
159	12/20/96	-206.99	3664.07	VISA Payment	M139 Expenses
	12/31/96	5.85	3669.92	Interest Deposit	Bank Interest
160	01/10/97	-250.00	3419.92	Beaver Run Resort	M142 Deposit
	01/31/97	5.33	3425.25	Interest Deposit	Bank Interest

5. Debts Outstanding: \$ 307.96 (Kinko's)  
 \$ 494.98 (VISA)  
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 \$ 802.94 (Total)

6. Receivables Outstanding: None

7. Bank Account Balance as of February 14, 1997: \$ 3425.25

8. Note: At meeting 138 the committee voted to suspend the meeting fee for meetings 139 and 140. At meeting 139, the committee voted to suspend the meeting fee for meeting 141.

## Attachment 4: Committee Membership

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