

Section 5

CERTIFICATION AND AVAILABILITY OF EISPACK

Under the auspices of the NATS Project, the subroutines constituting Release 2 of EISPACK have been tested on and are certified for the following computer systems and working precisions (test site names are indicated in parentheses):

<u>MACHINE</u>	<u>OPERATING SYSTEM</u>	<u>COMPILER</u>	<u>WORKING PRECISION</u>
IBM 370/195	OS/360 (21.7) (ARGONNE NATIONAL LABORATORY)	FTN IV G,H(21.7),WATFIV	LONG
IBM 360/75	OS/360 (21.7) (UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN)	FTN IV H(21.7)	LONG
IBM 370/168	MTS (UNIVERSITY OF MICHIGAN)	FTN IV G,H	LONG
IBM 360/75	OS/360 (21.7) (STOCKHOLM DATA CENTER)	FTN IV H EXTENDED(2.1)	LONG
IBM 370/165	OS/360 (21.7) (THE UNIVERSITY OF TORONTO)	FTN IV H EXTENDED(2.1)	LONG
BURROUGHS 6700	MCP 2.6 (UNIVERSITY OF CALIFORNIA, SAN DIEGO)	FORTRAN IV(2.6)	SINGLE
CDC 6600	SCOPE 3.4.2 (KIRTLAND AIR FORCE BASE/AFWL)	FTN(4.2)	SINGLE
CDC 6600	KRONOS 2.1 (ICASE/NASA LANGLEY RESEARCH CENTER)	RUN(2.3)	SINGLE
CDC 7600	(LOCAL) (NATIONAL CENTER FOR ATMOSPHERIC RESEARCH)	(LOCAL)	SINGLE
CDC 6400	SCOPE 3.3 (NORTHWESTERN UNIVERSITY)	RUN(2.3),FTN(3.0)	SINGLE
CDC 6400/6500	(LOCAL) (PURDUE UNIVERSITY)	FUN	SINGLE
CDC 6600/6400	UT2D-85 (THE UNIVERSITY OF TEXAS AT AUSTIN)	RUN(60.2),MNF,RUNW	SINGLE
HONEYWELL 6070	GECOS SR-F (BELL LABORATORIES AT MURRAY HILL)	FORTRAN-Y(SR-F)	SINGLE
UNIVAC 1110	EXEC-8(31.244) (THE UNIVERSITY OF WISCONSIN)	FORTRAN V(9)	SINGLE
DEC PDP-10	TOPS-10(506B) (YALE UNIVERSITY)	FORTRAN F40	SINGLE

The control program EISPAC has been tested on and is certified for the IBM systems at Argonne, Illinois, Stockholm, and Toronto listed above. Additional testing of EISPACK was carried out at Stanford University, Harvard University, and on the Amdahl 470V/6 machine at University of Michigan.

Certification implies the full support of the NATS project in the sense that reports of poor or incorrect performance on at least the computer systems listed above will be examined and any necessary corrections made. This support holds only when the software is obtained through the channels indicated below and has not been modified; it will continue to hold throughout the useful life of EISPACK or until, in the estimation of the developers, the package is superseded or incorporated into other supported, widely-available program libraries. The following individual serves as a contact for information about EISPACK, accepting reports from users concerning performance:

Burton S. Garbow
Applied Mathematics Division
Argonne National Laboratory
Argonne, Illinois 60439 U.S.A.
Phone: 312-739-7711 x4342

EISPACK is distributed from the Argonne Code Center. Versions exist for IBM 360-370, CDC 6000-7000, Univac 1110, Honeywell 6070, DEC PDP-10, and Burroughs 6700 machines. Fortran source decks, documentation, and testing aids will be transmitted as card images on a tape supplied by the requester. The tape should have a rating of at least 800 bpi and be a full 2400 feet long. The requester should specify the desired machine version. The tape should be mailed to:

Argonne Code Center
Bldg. 221
Argonne National Laboratory
Argonne, Illinois 60439 U.S.A.

The tape will be returned parcel post unless the Code Center is requested otherwise. It will be returned by air mail collect if the Code Center is so authorized in writing and the postal service procedures permit such shipment.

Certain international agreements pertain to the distribution of EISPACK outside the United States by the Argonne Code Center. Information concerning such distribution may be obtained from the Code Center.