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C.S.I.R.O. SCIENTIFIC COMPUTING NETWORK

NEWSLETTER NO. 2 - 27/10/64

1. OPENING CEREMONY

The Computing Laboratory at Canberra was officially opened on Thursday, September 17th, by Sir John Cockroft, O.M.

2. STATUS:

Canberra: Fully operational. For general details, see CORESEARCH NO. 67.

Adelaide: Machine and all peripherals except fast line printer installed. Acceptance tests will begin shortly.

Melbourne: Installation expected in November.

Sydney: Machine and all peripherals except fast line printer installed. The system is expected to be operational in early November.

3. PROGRAMING

SCOPE 4-22 is now in operation.

SCOPE 5.1 will be operational shortly. This will supervise the following programing systems:

FORTRAN4.1COMPASS4.0ALGOL1.0COBOL1.1SORT1.0

The system changes, mainly equipment mnemonics, will be the subject of a Technical Note to be issued shortly.

4. RUN TIME AND CHECKOUT/PRODUCTION

Users are reminded that it is essential to estimate accurately the expected program RUN TIME and to indicate clearly whether the program is for CHECKOUT or PRODUCTION purposes. This is necessary as priority in job scheduling is determined by these factors.

5. SUBROUTINES

A.CO-OP.The following new subroutines are now available under the CO-OP users scheme.

<pre>F 2 SAND GERIAC GAUSSIAN ELIMIN WITH ROW INTERCHANGE AND CORRECTIONS F-60 G 5 SAND SBELLI SBELLI G 5 SAND SBELLI SBELLI H 2 SAND MIN MIN U 2 CODA FOG FOG P-63 U 3 CODA GRACE 1 GRACE 1 F-63 U 3 CODA GRACE 2 GRACE 2 F-63 T 1 CPAD TRAVERSE TRAVERSE CLOSURE F-62 U 7 CODA SACTCELL SAL U CODA MATINY - MATRIX INVERSION WITH SOLUTION OF LINEAR EQUATIONS F-63 F 2 CODA MATINY - MATRIX INVERSION WITH SOLUTION OF LINEAR EQUATIONS F-63 U 4 ANL MRGATEOD MURGATEOND F-62 U 7 AND ASING FF FLOATING FOINT ARCSINE - ARCCOSINE B 1 CODA ASINF FLOATING FOINT ARCSINE - ARCCOSINE A NUSAR DISASMEL DISASMBL 0 4 NPGS GRAPPLOT IG 604 GRAPH PLOTTING SUBROUTINE F-63 U 6 CODA FORM FORM F-63 Z CODASMPLE SAMPLE A 1 UTEX CONSORT 36-BIT PRECISION, FLOATING-POINT, COMPLEX SQLARE ROOT A 1 UTEX SCAPROOM ACCURATE REAL, FLOATING-POINT, COMPLEX SQLARE ROOT F 1 UTEX SCAPROD ACCURATE REAL, FLOATING-POINT SCALAR FRODUCT F 1 UTEX SCAPROD ACCURATE REAL, FLOATING-POINT SCALAR FRODUCT F 1 UTEX JCBFIX EIGENVALUES AND FACTOR- SCORE COMPLEX SUMALION, WITH HIGH ACCURACY F 1 UTEX JCBFIX EIGENVALUES AND FACTOR- SCORE COMPLEX FACTOR ANLYSIS AND FACTOR- SCORE CODA TOZ TUZ F-63 U CODA SIZLE SIZLE F-63 U CODA COMPCOMP CO</pre>						
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	С	3	UOFM	CDFN	NORMAL CUMULATIVE DISTRIBUTION FUNCTION AND ERROR FUNCTION
	С	3	UOFM	ERFN	NORMAL CUMULATIVE DISTRIBUTION FUNCTION AND ERROR FUNCTION
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	D	1	UOFM	ROM1F	NUMERICAL INTEGRATION USING THE ROMBERG METHOD
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				MXTRID	SOLUTION OF TRIPLE DIAGONAL SYSTEM
				GAUSS2	SOLUTION OF SIMULTANEOUS LINEAR ALGEBRAIC
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	K	3	UTEX	DUPTAPE	DUPTAPE-DUPLICATE TAPE
	U	3	CODA	FUGUE	FUGUE F-63
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	G	2	SAND	WRAP	WEIGHTED REGRESSION ANALYSIS PROGRAM (WRAP)
	С	1	UCSD	HERMIT	HERMITE POLYNOMIAL GENERATOR F-63
	С	1	UCSD	LEGEND	LEGENDRE POLYNOMIAL GENERATOR F-63
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	С	3	SAND	ELLPINT	COMPUTATION OF COMPLETE ELLIPTIC INTEGRALS K AND E F-60
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LIBRARY SUBROUTINES

Following the implementation of SCOPE 4.22, five new subroutines are available to users. These are:-

G 9 CSIR SIDADD ANALYSIS OF A LOGICAL ARRAY.

D 2 CSIR AUTODEQ CONTROLLED SOLUTION OF, ORDINARY DIFFERENTIAL EQUATIONS.

- J 5 CSIR . VISIWRIT VISIBLE CHARACTERS ON PAPER TAPE OUTPUT.
- I 5 CSIR FREEREAD FREE FORMAT INPUT
- J 5 CSIR PDUMP DUMPING ROUTINE

Any user who has developed a subroutine which might be of general interest is requested to contact Mr. D. J. Langridge, Computing Laboratory, Canberra.

6. CORRECTIONS TO MANUAL SUPPLMENT NO. 5

Page 6. SSWITCH should read SSWTCH Page 7. EOFCHK should read EOFCK

7. PUBLICATIONS

The following is a list of Computing Research Section publications to date:-

Procedure for Submission of Jobs. J. P. Penny 22/6/64 Memorandum No. 1))- Superseded by Memorandum No. 4

Memorandum No. 2

Memorandum No. 3 Character and Code Sets. T. Pearcey June, 1963

Memorandum No. 4 Revised Equipment Configurations. T. S. Holden. July, 1964.

Technical Note No. 1 Planned Subroutines for the C.S.I.R.O. CDC 3200 Subsidiary Computing System. T. Pearcey. May, 1964.

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