C.S.I.R.O.

COMPUTING RESEARCH SECTION

NEWSLETTER NO. 23 - 1st MAY, 1967

I. GENERAL

Publications Issued this Month

NL - Newsletter No. 23.

TN - Technical Note No. 20. Use of Paper Tape on the
3600 Computer. T.S. Holden, March, 1967.
(See Newsletter No. 22).

LM - Library Accession List No. 14.

3600 Compass in Canberra

A Compass programming course will be held at Canberra
on Monday 29th and Tuesday 30th May. The class will meet
at 9.30 a.m. on Monday. Application forms from the
Education Officer, C.R.S., Canberra.

Seminars - Canberra

On Thursday 25th May, Dr. M. Anson, Division of
Building Research, C.S.I.R.O. will give a talk on
"Network Analysis for Planning and Controlling Building
Contracts".

Dr. Anson is working on the implementation of network
analysis to large scale building projects.

On Thursday, 8th June, Dr. C. Abraham, Computing
Research Section, will give a talk on "Mechanical Mathematics".
This involves the manipulation of symbol strings consisting
of algebraic characters. The philosophy of the program will
be discussed.

Both the above seminars will be held in the Lecture
Room, C.R.S., Canberra at 2.00 p.m.

Provisional Arrangement - Seminar

Professor A. Smirnoff has been invited to give a seminar on June 2nd. The subject will be: "Experimental Data Processing as a new field for Computer Applications". The confirmation of this seminar will be placed on the notice board by the entrance to the punch room.

Television Broadcast

A.B.C. Television. There will be a repeat presentation of the lecture "Computer Botanist" given by Dr. W.T. Williams, C.R.S., at the recent A.N.Z.A.A.S. Conference.

N.S.W. Vic. & A.C.T.	May 24th - 9.20 p.m.
Q'Land	June 7th - 9.35 p.m.
S.A.	June 28th - 9.20 p.m.
W.A.	July 5th - 9.20 p.m.
Tas.	July 21st - 9.20 p.m.

Analogue Computer - Programming Course

A five day general course on analogue computing will be given in Sydney by E.A.I. - Electronic Associates Pty. Limited during the week beginning the 8th May. Further details from Mr. R.A. Crookes, E.A.I. - Electronic Associates Pty. Limited, 26 Albany Street, St. Leonards, N.S.W. Telephone 43 7522.

Depending upon the demand a two-day follow-up course will be held at the Simulation Laboratory, C.S.I.R.O., Division of Chemical Engineering. Engineering, P.O. Box 4331, Melbourne, C.1., Vic. Telephone 64 0251, Extension 531.

Staff

Dr. G. Shearing has been appointed to the position of Research Scientist with the Section. He is expected to arrive late in May.

II.   3600

Display Program 'STATIST'

The program STATIST written by Dr. P.J. Claringbold
enables the user to perform on-line statistical calculations
such as regression analysis, partial correlation coefficients,
various chi-square tests and means, standard deviations and
measures of skewness and kurtosis. It is now available
through the 3600 Display Consoles. If users have any comments
or suggestions to make concerning the utility of the programs,
Mr. J.A.B. Palmer, C.R.S. will be glad to hear them.

Overlays

A restriction on the range of logical unit numbers
allowed in calls has now been relaxed. The user can now use
logical unit numbers 52-59 as well as the range 1-49 previously
allowed. However, the range restriction on LOADMAIN remains.
This can be circumvented by equivalencing.

```
e.g.        *EQUIP, 52=(   ),SV
            *EQUIP, 3=52

            ----
            ----

            *LOADMAIN,3
```

III.   3200

3200 Magnetic Tape Labelling

Labelling facilities similar to those available on the
3600 have now been implemented on the 3200. Dates for
changeover to the new system will be set individually by
the various subsidiaries. The Adelaide subsidiary will
change over on Monday,   1st May.

Full details of these facilities will be published in
the near future. A summary is given below. Further details
may be obtained by contacting C.R.S. staff.

Output tape should have an Equip card of the form:

EQUIP, 40 = MT, (label,1,1),SV.

Input tape should have an Equip card of the form:

EQUIP, 30 = MT, (label,1,1),RØ.

where 'label' is a name of up to 14 characters, and should not include blanks.

Tapes created by previous versions of the system may be read by the new system using an Equip card such as:

EQUIP, 20 = MT,**,RØ.

Puzzle Corner

Many readers were apparently challenged by the latest puzzle and correct answers were received from A.R. Brown, J.D. Bell, Y.L. Chan, A. Cook, Miss M. Edeson, Miss N.L. Harris, B.F. Jones, Mrs. G. Keig, M.A. MacDowell, B. McHugh, J.M. Mach, D. Mendus, P.J. Pahl, G. Petru, R.L. Sinclair, I. Tilley, A. Turpie and B. Wall.

The vicar is aged 50. Enumeration of all the sets of three factors of 2450 shows that just two sets have an equal sum

$$(7 + 7 + 50 = 64 = 10 + 5 + 49)$$

causing the 32 year old curate to answer "no" to the first question.

That the curate can deduce the parishioners ages when told that the vicar is older than the oldest indicates that the vicar's age must be 50 since this is the only age which would discriminate between 49 and 50.

This month we ask readers three series problems.
What letter follows: (a) OTTFFSSE- ?
(b) AEFHI- ?
What is the missing number in the sequence: (c) 10, 11, 12, 13, 14, 15, 16, 17, 20, 22, 24, - , 100, 121, 10000?