

UNIVERSITY OF QUEENSLAND

Computer Centre

WEEKLY NEWSLETTER

Date : Week ended 11 March 1971
Authorization : Director of the Computer Centre

1. OPERATIONS

1.1 PDP-10 System

Normal schedule: Maintenance 0700-0930
Timesharing 1000-1700
Batch 1000-2230

Wednesday 10 March System development 2000-2400

Thursday 11 March System development 2000-2400

1.2 GE-225 System

Normal schedule: Maintenance 0700-0900
Operations 0900-2400

2. ERROR IN COMPLEX ARITHMETIC IN PDP-10 FORTRAN IV

It has been found that in certain cases the FORTRAN IV compiler does not correctly translate expressions involving complex division. The problem occurs when the complex variable on the left hand side of an expression is also used as the divisor on the right hand side.

example:

```
COMPLEX Z, Z1  
.  
.  
.  
Z=Z1/Z
```

During execution this produces an error message

ILL MEM REF AT USER adr

The problem can be avoided in the following manner, and the correct results produced.

COMPLEX Z, Z1, Y

.

.

.

Y=Z

Z=Z1/Y

This problem has been reported to Digital Equipment for correction.

3. REPRESENTATION OF LETTERS ON FORTRAN CODING SHEETS

Users wishing to submit data preparation work to the Centre should use the standard Computer Centre coding sheets. At the top of each sheet is clearly stated the standard representation for certain characters, among them the letter O and the digit 0. On the coding sheets, the letter O is represented by Θ , and the digit 0 is represented by 0 or \emptyset .

It has been pointed out that the examples throughout the PDP-10 FORTRAN manual do not correspond to this. They are not meant to. Instead they correspond to the way in which they would be produced either on the line printer or on the Teletypes, where the letter O is uncrossed and the digit 0 is slashed.