

UNIVERSITY OF QUEENSLAND

Computer Centre

WEEKLY REPORT

Date : Week ended 17 September 1970

Distribution : Program Librarian, Technical Writer, Computer Users

1. OPERATIONS

1.1 GE-225 System

Normal Schedule: Operations 0900-2400

Tuesday 15 September Maintenance testing of paper tape equipment 1340-1540

1.2 PDP-10 System

Normal Schedule: Maintenance 0700-0930
Operations 0930-1400, 1700-2400
Development 1400-1700

Monday 14 September Development 2000-2030

Tuesday 15 September Maintenance until 1010, file maintenance until 1120
System crash 1150, 1155-1225

Thursday 17 September Development 1400-1600, Operations 1600-2400

2. BATCH

The new version of BATCH mentioned in last week's Report is now operating.

3. FORTRAN COMPILER ERROR

In attempting to optimise the code produced when an expression involves common sub-expressions, the following case is not handled properly:

$$A = (1.0 - X - Y)/(1.0 - X)$$

The code produced actually evaluates:

$$\begin{aligned} A &= (1.0 - X - Y)/(1.0 - X - Y) \\ &= 1.0 \end{aligned}$$

To program around this, separate the evaluation of the numerator and denominator or define the function in a way that does not involve the common sub-expression. In the example quoted:

$$A = 1.0 - Y/(1.0 - X)$$

would be satisfactory.

See TM-17.