

UNIVERSITY OF QUEENSLAND

Computer Centre

WEEKLY NEWSLETTER

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authorization : Director of the Computer Centre

1 OPERATIONS

1.1 PDP-10 System

Friday	27 October	end of day accounting which aborted previous night, 0830-09:00.
Monday	30 October	end of day accounting which aborted previous night, 0830-0847.
Wednesday	1 November	end of day accounting which aborted previous night, 0830-0900 system failure, offline 0920-0935, reloaded monitor system failure, offline 1146-1149, restarted monitor successfully.

2 FORTRAN ERROR

An example of a mixed mode expression involving a common subscript value not compiling properly has been observed.

The particular expression was

```
DOUBLE PRECISION D(10,10)
DIMENSION XMEAN(10),VAR(10)
.
.
VAR(I)=(D(I,I)-SUM*XMEAN(I))/(ES-1.0)
.
.
```

It is recommended that mixed mode expressions be not used, it being possible, for example, to replace the above by:

$$\text{VAR}(I) = (\text{SNGL}(D(I, I)) - \text{SUM} * \text{XMEAN}(I)) / (\text{EN} - 1.0)$$

3 SAVING FILES CREATED BY OVERLAY COMMAND

Users may be able to avoid recompilation of large overlay programs by following the procedure outlined below. (The success of the operation will depend on the size of the two files produced - and the user's file storage limits).

- (a) Define the overlays, using the OVERLAY command

example:

.OVERLAY(0,AAA) TEST1/REL<cr>

.OVERLAY(1,BBB) TEST2/REL<cr>

.OVERLAY(1,CCC) TEST3/REL<cr>

- (b) Load the overlay program into core

.LOAD<cr>

- (c) Save the program

.SAVE MYPRG<cr>

At this stage, there will be two files created on the user's area

- (i) MYPRG/SAV
- (ii) BB/ABS

Note that the ABS file takes the name of the first overlay area after the permanent (area=0) section. In the example above this is BBB. If there is no name provided in the overlay command, the default name of OVFIL will be used.

Batch users must indicate that they wish to keep these files
.KEEP MYPRG/SAV BB/ABS

The program can now be referred to by name MYPRG. For example, to run the program, type

.MYPRG<cr>

4 SUGGESTIONS

It has been suggested that the Centre provide pens on the counters in the foyers, to enable users to complete JOBID cards. This suggestion will be implemented as soon as possible.