

UNIVERSITY OF QUEENSLAND

Computer Centre

WEEKLY NEWSLETTER

Date : Week ended 2 December 1971

Authorization : Director of the Computer Centre

1. OPERATIONS

1.1 PDP-10 System

Friday	26 November	System maintenance, 0930-0938 System failure, off-line 1606-1616.
Monday	29 November	Processing of monthly invoices, 2000-2330.
Tuesday	30 November	Adjustment of accounting files, 0930-1030 System failure, off-line 1138-1300, 1515-1535, 2015-2025.
Wednesday	1 December	Adjustment of accounting files, 0930-1100.
Thursday	2 December	End-of-day accounting job, which could not proceed previous night due to error, 0930-1035 System failure, off-line 2245-2300.

Schedule for forthcoming week: Maintenance 0700-0900
 Operations 0930-2330

1.2 GE-225 System

Schedule for forthcoming week: Maintenance 0700-0900, 2000-2130
 Operations 0900-2000, 2130-2400

2. MATHPAC/200

The Computer Centre recently received, from Honeywell Information Systems, the source decks and a single manual for MATHPAC/200, whose contents are listed below. These routines are written in FORTRAN for the GE-200. The routines are not incorporated into the FORTRAN IV library, but source decks or listings could be made available. If sufficient interest is shown, further copies of the manual will be ordered, but in the meantime, the Centre will copy sections for interested users. For further information please contact the Administrative Officer, Mr Jauncey, on extension 8471.

The set of subprograms referred to as MATHPAC/200 consist of the following:

- Floating-Point Matrix Add Subroutine (MATA)
- Floating-Point Matrix Subtract Subroutine (MATB)
- Floating-Point Matrix Multiply Subroutine (MATC)
- Floating-Point Matrix Scalar Multiply Subroutine (MATS)
- Floating-Point Matrix Transpose Subroutine (MATD)
- Floating-Point Matrix Transpose Special Subroutine (MATTS)
- Floating-Point Matrix Invert Subroutine (MATI)
- Floating-Point Linear Simultaneous Equations Subroutine (SIMEQ)
- Eigenvalue/Eigenvector Subroutine (EIGENJ)
- Eigen Systems Subroutine (EIGENS)
- Floating-Point Polynomial Roots Subroutine (POLRTS)
- Lagrange Table Lookup and Interpolation Function Subprogram (ALAGRF)
- Least Squares Curve Fit Subroutine (FIT)
- Differential Equations Numerical Integration Subroutine (DIFFEQ)

There is one section in the manual for each subprogram, with each section giving a brief description of the purpose of the subprogram, together with a description of the manner in which the subprogram may be called in a user's main program.

More detailed information on each subroutine may be obtained by referring to the GE-400 Series MATHPAC Application Handbook (CPE-1161).