

UNIVERSITY OF QUEENSLAND

COMPUTER CENTRE

WEEKLY NEWSLETTER

DATE : WEEK ENDED 29 JUNE 1972  
AUTHORIZATION : DIRECTOR OF THE COMPUTER CENTRE

1. OPERATIONS

1.1 PDP-10 SYSTEM

FRIDAY 23 JUNE END OF DAY ACCOUNTS 0930-1000  
SYSTEM LOOPING, RELOADED MONITOR, SYSTEM  
OFFLINE 1810-1820  
CARD READER MAINTENANCE, NO BATCH PROCESSED  
1857-1920, 2115-2200.

MONDAY 26 JUNE MEMORY PARITY MAINTENANCE, SYSTEM OFFLINE  
0930-1015  
END OF DAY ACCOUNTS 1020-1105.

TUESDAY 27 JUNE TEST MONITOR SET UP  
DISK PACK FAILURE, SYSTEM OFFLINE 1240-1250,  
SYSTEM RESTARTED, NO MONITOR RELOAD.

WEDNESDAY 28 JUNE NEW OPERATIONAL MONITOR SET UP.

THURSDAY 29 JUNE END OF DAY ACCOUNTS, 0930-1020  
INTERNAL MONTHLY INVOICES, 2115-2315.

SCHEDULE FOR FORTHCOMING WEEK: MAINTENANCE 0700-0900  
OPERATIONS 0930-2300.

1.2 GE-225 SYSTEM

SCHEDULE FOR FORTHCOMING WEEK: MAINTENANCE 0700-0830, 2000-2130  
OPERATIONS 0900-2000, 2130-2400.

2. NEW COMMAND DECODER

A NEW VERSION OF THE COMMAND DECODER (VERSION 2E(36)-3) WILL BE  
IMPLEMENTED ON THE PDP-10 ON WEDNESDAY 12 JULY. A NUMBER OF  
IMPORTANT CHANGES HAVE BEEN MADE WITH THIS DECODER. THE CHANGES



IN SECTION 2.1 AND 2.2 BELOW, FORESHADOW THE IMPLEMENTATION OF A GENERAL PROGRAM LIBRARY AND EXTENDED COMMAND CAPABILITY.

## 2.1 DIRECTORIES

LIBRARY DIRECTORIES ON THE PDP-10 WILL BE RENAMED AND IN SOME CASES THERE WILL BE SOME REORGANIZATION OF THE ACTUAL FILES CONTAINED ON THESE AREAS.

LIBRARY DIRECTORIES ARE REFERENCED BY NAME, E.G. PLOT, STATS, MATRIX. THE NAMES ARE NOT PRECEDED BY A DOLLAR SIGN; A DOLLAR SIGN IS USED TO INDICATE A DEVICE OR PSEUDO DEVICE, E.G. \$DSK, \$ASR.

USER DIRECTORIES ARE REFERENCED BY THE PROJECT NUMBER OF THE AREA BELONGING TO THAT USER, E.G. 279, 531.

FILES FROM ANY DIRECTORY CAN BE OBTAINED BY REFERENCING THE DIRECTORY NAME AND THE FILENAME

FOR EXAMPLE:

- (I) RUN MYPROG.PLOT.CALCMP(LIB)  
RUNS THE FILE MYPROG (UNDERSTOOD TO BE ON THE USER'S OWN DIRECTORY) WITH THE LIBRARY FILE CALCMP FROM THE PLOT DIRECTORY.
- (II) STATS.BMD02R  
THIS EXECUTES THE PROGRAM BMD02R ON THE STATS DIRECTORY.
- (III) COPY TUTOR.MYPROG/F4 TO=374.MYPROG/F4  
COPIES THE FORTRAN PROGRAM MYPROG FROM THE TUTOR DIRECTORY ONTO PROJECT AREA 374.

ON THE 12 JULY, THE OLD LIBRARY DIRECTORIES (\$BMD, \$MATH, \$MATRIX, \$LEARN, \$PLOT, \$STATS) WILL BE REMOVED AND REORGANIZED AND THE NEW DIRECTORIES WILL BE AS FOLLOWS:

<u>DIRECTORY</u>	<u>FILES</u>	<u>CONTENTS</u>
GAMES	CHESS DOTS ELISA LUNAR MOO NIM QED	

THESE HAVE ALL BEEN REMOVED FROM THE SYSTEM DIRECTORY TO GAMES.



HELP	HELP/HLP MANUAL/HLP  NEWS/HLP	EXPLAINS HOW TO USE HELP GIVES DETAILS OF CURRENT STATUS OF COMPUTER CENTRE MANUALS CURRENT WEEKLY NEWSLETTER
MATH	SSP/REL	A LIBRARY FILE CONTAINING ALL THE MATHEMATICAL ROUTINES FROM THE SCIENTIFIC SUBROUTINE PACKAGE
MATRIX	MATINV/REL SSP/REL  SMIS/SAV	MATRIX INVERSION A LIBRARY FILE OF MATRIX SUBROUTINES FROM THE SCIENTIFIC SUBROUTINE PACKAGE SYMBOLIC MATRIX INTERPRETIVE SYSTEM
PLOT	DEC/REL CALCMP/REL DRIVR/SAV FLOCT/SAV FORGN/SAV	OLD DIGITAL PLOTTER ROUTINES BASIC CALCOMP SOFTWARE ROUTINES PROGRAM TO READ CARDS FOR CRVPT FLOWCHART GENERATION UTILITY PROGRAM FORMS GENERATION PROGRAM
STATS	BMD01D BMD02D BMD03D BMD01M BMD04M BMD07M BMD02R BMD01V BMD04V   SSP/REL	SIMPLE DATA DESCRIPTION CORRELATION WITH TRANSGENERATION CROSS TABULATION WITH VARIABLE STACKING PRINCIPAL COMPONENT ANALYSIS DISCRIMINANT ANALYSIS FOR TWO GROUPS STEPWISE DISCRIMINANT ANALYSIS STEPWISE REGRESSION ANALYSIS OF VARIANCE FOR ONE WAY DESIGN ANALYSIS OF COVARIANCE WITH MULTIPLE COORDINATES (NOTE THAT THESE PROGRAMS ARE NOW REFERENCED BY THEIR COMPLETE NAMES) STATISTICAL ROUTINES FROM THE SCIENTIFIC SUBROUTINES PACKAGE
TUTOR	MYPROG/F4  MYSUBR/F4	A PROGRAM AND SUBROUTINE USED IN TEACHING DDT TO USERS

INITIAL DOCUMENTATION ON THE LIBRARY ROUTINES WILL BE AVAILABLE  
IN THE CLIENTS' ROOM, FOR REFERENCE ONLY.

## 2.2 NUMERIC FILENAMES

FILENAMES CAN CONSIST OF 6 ALPHANUMERIC CHARACTERS. THE  
RESTRICTION THAT THE FIRST CHARACTER HAD TO BE ALPHABETIC HAS  
BEEN REMOVED. THE FIRST CHARACTER OF THE PROCESSOR PROGRAM NAME  
MAY ALSO BE NUMERIC.



### 2.3 THE DIRECTORY COMMAND

A DIRECTORY COMMAND IN WHICH NO ARGUMENT IS SPECIFIED ASSUMES A DEFAULT ARGUMENT OF ALL/ALL. THAT IS

DIR  
AND DIR ALL/ALL  
BOTH LIST THE USER'S COMPLETE DIRECTORY.

WITH THE IMPLEMENTATION OF THE CHANGES DETAILED IN SECTION 2.1 AND 2.2 ABOVE, THE DEFAULT OF ALL/ALL FOR FILENAME WHERE NONE IS SPECIFIED, CONTINUES TO BE ASSUMED WITH THE FOLLOWING RESULTS.

- (I) DIR PLOT                      LISTS THE DIRECTORY ENTRY FOR THE FILE PLOT ON THE USER'S AREA
- (II) DIR PLOT.CALCMP            LISTS THE DIRECTORY ENTRY FOR THE FILE CALCMP ON THE PLOT LIBRARY
- (III) DIR PLOT.                  ASSUMES ALL/ALL FOR THE FILENAME AND LISTS THE COMPLETE DIRECTORY OF THE PLOT LIBRARY
- (IV) DIR 379                     LISTS THE DIRECTORY ENTRY OF THE FILE 379 ON THE USER'S AREA
- (V) DIR 379.TEST/F4            LISTS THE DIRECTORY ENTRY OF THE FILE TEST/F4 ON PROJECT 379
- (VI) DIR 379.                   ASSUMES THE DEFAULT OPTION FOR FILENAME AND LISTS THE DIRECTORY OF PROJECT 379

### 2.4 IDENT COMMAND

THE DECODER WILL NOW RECOGNIZE THE CORRECT SPELLING OF 'EXERCISE' FOR THE ARGUMENT {EXERCISE={EXERCISE-NUMBER, EX IS AN ALLOWABLE ABBREVIATION FOR THE ASSIGNMENT.

### 2.5 ALGOL COMMAND

AN ALGOL COMMAND, SIMILAR TO THE FORTRAN, COBOL AND MACRO COMMANDS, WILL BE IMPLEMENTED. THE ONLY OPTIONS AVAILABLE ARE LIST AND NOLIST, BIN AND NOBIN.

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ALGOL (LIST , BIN ) {IN={FILENAME-1 } {BIN={FILENAME-2
      NOLIST NOBIN {LST={FILENAME-3
```

## 2.6 OVERLAY

AN OVERLAY(Ø) COMMAND WILL NOW CLEAR ANY FILES ON THE LOAD LIST AND COMMENCE A NEW LIST FOR THE OVERLAY COMMAND AND THOSE THAT FOLLOW.

## 2.7 ERROR MESSAGES

DECODE NOW GIVES THE CORRECT ERROR MESSAGES IN ALL SITUATIONS.

## 3. PDP-10 FORTRAN

THE COMPUTER CENTRE FORTRAN MANUAL MNT-5 DOES NOT STATE THAT THE DEFINITION OF ARITHMETIC STATEMENT FUNCTIONS SHOULD PRECEDE THE FIRST EXECUTABLE STATEMENT IN THE PROGRAM. THIS OMISSION WILL BE CORRECTED WITH THE NEXT REVISION OF THE MANUAL.