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1. INTRODUCTION

A. MYSELF, DAVID, WADE

2. STUDENT BACKGROUND - ASSUMED TO HAVE PROGRAMMING KNOWLEDGE ..?

- WE NEED THE FOLLOWING INFO SO THAT WE MAY HELP YOU USE THE COMP
- A. WHO HAS NEVER USED AN IBM COMPUTER ?
- B. IS THERE ANYONE WHO HAS NOT USED AN ONLINE COMPUTER TERMINAL
- C. WHO WILL BE PROGRAMMING IN FORTRAN ?
- D. WHO WILL BE PROGRAMMING IN PL1 ?
- E. IS THERE ANYONE PLANNING NOT TO USE THE NRCO TERMINAL SYSTEM

3. CONTENT OF LECTURE

- A. THIS SESSION WILL BE DIRECTED AT PROVIDING YOU WITH BASIC INFORMATION ON HOW TO USE THE NRCO COMPUTER AND HOW THE COMPUTER DIVISION FUNCTIONS.
- B. SPECIFICALLY, THE FOLLOWING TOPICS WILL BE DISCUSSED -
 - COMPUTER DIVISION FUNCTION, ORGANIZATION, & HARDWARE
 - WHERE TO GO/WHO TO CONTACT FOR INFORMATION
 - COMPUTER USAGE RULES/REQUIREMENTS
 - PRIMER FOR THE USE OF PANDORA, THE TERMINAL SYSTEM
 - QUESTIONS/DISCUSSION

4. COMPUTER DIVISION

A. FUNCTION-

TO MAKE THE NRCO COMPUTER AVAILABLE TO THE ASTRONOMERS FOR THEIR SCIENTIFIC RESEARCH. WE ARE A SERVICE GROUP.

B. ORGANIZATION-

HEAD - BOB BURNS WHO IS IN EUROPE TIL AUG. BILL MEREDITH IS ACTING FOR BOB UNTIL THEN.

SPECIALIZED COMPUTER PROGRAMMERS FOR VARIOUS DATA REDUCTION PROGRAMS

SYSTEMS PROGRAMMERS - DAVID BROWN, BOB FROMM, MYSELF WE ARE RESPONSIBLE FOR MAINTAINING & UPGRADING

THE IBM COMPUTER SOFTWARE AND THE USER DATA BASE.

OPERATIONS - WADE DAVIS WHO SUPERVISES THE COMPUTER OPERATORS AND IS RESPONSIBLE FOR HARDWARE MAINTEN-

ANCE AND GENERAL THROUGHPUT ON THE MACHINE. WADE ALSO

IS BURNS WATCH DOG ON USER VIOLATIONS OF COMPUTER RULES. IF YOU NEED SOME SORT OF UNUSUAL OR SPECIAL

COMPUTER USE, CONTACT WADE.

HARDWARE -

IBM MODEL 360/65 WITH 1.25 MEGABYTES OF CORE 1600 MEGABYTES OF ONLINE DISK STORAGE (8 DRIVES) 1 7-TRACK & 5 9-TRACK TAPE DRIVES

1 CARD READER/PUNCH, PRINTER, & ONLINE PLOTTER

1 COMMUNICATIONS CONTROLLER

AN RJE STATION IN GREENEANK, W.VA.

20 CRT TERMINALS PLUS 2 GRAPHICS TERMINALS

OTHER EQUIPMENT INCLUDES A MODCOMP MINI COMPUTER

ON THE SECOND FLOOR PLUS THE VLBI AND VARIAN COMPUTERS ON THE FIRST FLOOR

MEMBER NAME STUDENTS

5. WHERE TO GO/WHOM TO CONTACT FOR HELP/INFORMATION
- A. SPECIAL COMPUTER PROGRAM SUPPORT - CONTACT THE COMPUTER DIVISION SECRETARY, CONNA EASON IN ROOM 108
 - B. KEY PUNCH ROOM 116 FOR VARIOUS COMPUTER MANUALS AND NOTES AND POSTERS.
 - C. BULLETIN BOARD BETWEEN ROOMS 110 AND 111.
 - D. GENERAL PL1 PROGRAMMING PROBLEMS - DAVID BROWN IN ROOM 118
 - E. GENERAL FORTRAN PROGRAMMING PROBLEMS - MYSELF IN ROOM 117
 - F. JCL PROBLEMS - BOB FROMM EXT 357/DAVID/MYSELF.
 - G. ASSUMING YOU KNOW IBM JCL AND FORTRAN OR PL1, THE TERMINAL SYSTEM, KNOWN AS PANDORA, HAS A BUILT-IN FACILITY TO ASSIST PEOPLE IN ITS USE VIA THE COMMAND 'HELP'
 - H. IF YOU WISH TO USE THE MODCOMP COMPUTER, CONTACT ERIC GREISEN IN ROOM 218 TO SCHEDULE TIME ON IT.
6. COMPUTER USE - GENERAL OPERATION AND NRAO REQUIREMENTS
- A. THE OPERATING SOFTWARE IS KNOWN AS 'OS' AND THE CURRENT SYSTEM IS MFT WITH HASP.
 - A BRIEF OVERVIEW IS AS FOLLOWS -
 - CORE MAPPING
 - JOB SCHEDULING FROM THE JOB QUEUE(HASP)/OPERATOR
 - B. THE COMPUTER AVAILABILITY IS NORMALLY AS FOLLOWS-
 - 24 HOUR SERVICE EXCEPT MIDNIGHT TO 0800 FRIDAYS AND SATURDAYS EXCEPT FOR SPECIAL ARRANGEMENTS WITH WADE,
 - SYSTEMS HOUR EACH DAY IS FROM 0730 TO 0830 AND THE TERMINALS ARE NOT AVAILABLE FOR USE AT THAT TIME. THE COMPUTER MAY OR MAY NOT BE AVAILABLE FOR EXECUTING USER PROGRAMS DURING SYSTEMS HOUR DEPENDING UPON WHAT THE SYSTEMS GUYS HAVE TO DO.
 - SCHEDULED COMPUTER HARDWARE PREVENTIVE MAINTENANCE, USUALLY EVERY OTHER WEDNESDAY MORNING FROM 0830 TO NOON
 - SPECIAL HOLIDAY HOURS ARE POSTED IN ADVANCE
 - WHEN THERE ARE HARDWARE/SOFTWARE PROBLEMS, A SIGN IS POSTED ON THE COMPUTER ROOM DOOR.
 - C. NRAO COMPUTER USAGE REQUIREMENTS -
 - DATASET NAMING CONVENTION FOR DISK STORAGE -
 - DSN=ADVISOR.YOURNAME.ANY8CHAR
 - UNCATALOGED OR IMPROPERLY NAMED DATASETS ARE SCRATCHED BY WADE AS SOON AS HE FINDS THEM.
 - SPECIAL NOTE ON DISK HARDWARE PROBS-NOTIFY OF 737'S
 - SETUP CARDS FOR TAPE JOBS -
 - /*SETUP MNNNN, (RING-IN) NO-RING ASSUMED
 - OPERATOR AUTHORIZED TO CANCEL ANY TAPE JOBS W/O SETUP
 - JOBS ARE IDENTIFIED IN THE SYSTEM BY JOBNAME, SO ONLY ONE JOB WITH THE SAME NAME CAN BE EXECUTED AT ANY GIVEN TIME. ALL OTHERS ARE QUEUED. PLEASE DO NOT FLOOD THE JOB QUEUE WITH MANY JOBS HAVING IDENTICAL NAMES - CAUSES INEFFICIENT USE OF THE MACHINE AND OPERATOR PROBLEMS.
 - JOB CARD SYNTACTIC REQUIREMENTS ARE POSTED IN THE KEY ROOM
 - PROGRAMS WILL NOT EXECUTE WITHOUT VALID JOB CARDS.
 - THE MINIMUM JCL FOR A PROGRAM EXECUTION IS A JOB CARD FOLLOWED BY AN 'EXEC' CARD. ALL JCL IS IDENTIFIED WITH '///' IN COLUMNS 1 & 2 OF EACH CARD

MEMBER NAME STUDENTS

7. PANDORA OVER-VUE AND PRIMER.

A. ALL TERMINAL SYSTEMS DIFFER IN HOW THEY FUNCTION AND WHAT THEY DO. PANDORA HAS EVOLVED TO ITS PRESENT STATE PRIMARILY DUE TO MRAC USER NEEDS AND REQUESTS. IT IS HIGHLY TAILORED TO MRAC.

B. GENERAL CONCEPT OF HOW PANDORA WORKS - SCHEMATIC

LOGON

THE WORKSPACE FUNCTION -

CREATING, EDITING TEXT

THE PDS FUNCTION -

STORING TEXT/JCL/DATA

SUBMITTING JOBS TO HASP - FROM W.S. OR PDS

FUNDAMENTAL SYNTACTIC RULE -

VERB/SINGLE-SPACE/OPERANDS/EOT

START/STOP MODE - NO TRANSMISSION COMPLETION WITHOUT

ENDING SEQUENCE WITH ECT/CTRL-D

C. PANDORA PRIMER - DAVID

8. QUESTIONS/DISCUSSION

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