

# University Computer Center newsletter

227 EXPERIMENTAL ENGINEERING  
UNIVERSITY OF MINNESOTA  
MINNEAPOLIS, MN 55455  
VOLUME 7 NUMBER 12  
DECEMBER, 1973

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### CHRISTMAS HOLIDAY HOURS

Lauderdale Close at 2:00 AM Monday, Dec. 24  
Open at 8:00 AM Wednesday, Dec. 26

Experimental Close at 12:00 Midnight Sunday, Dec. 23  
Open at 8:00 AM Wednesday, Dec. 26

West Bank Close at 4:00 PM Saturday, Dec. 22  
Open at 8:00 AM Wednesday, Dec. 26

### NEW YEAR'S HOLIDAY HOURS

Lauderdale Close at 6:00 PM Monday, Dec. 31  
Open at 8:00 AM Wednesday, Jan. 2

Experimental Close at 4:00 PM Monday, Dec. 31  
Open at 8:00 AM Wednesday, Jan. 2

West Bank Close at 5:00 PM Monday, Dec. 31  
Open at 8:00 AM Wednesday, Jan. 2

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### MNF NEWS

#### MNF MANUAL

The latest edition of the MNF manual is now available at the Main Engineering Bookstore. It contains corrections to previous editions plus an index.

#### NEW VERSIONS OF MNF

During the fall quarter break, new versions of MNF will be put on the 6600 (both regular MNF and student batch MNF) and on the 6400 time-sharing system. The exact date will be announced in SYSNOTES. The main feature of the new versions is that THE DEFAULT FORM OF INPUT/OUTPUT WILL BE ANSI STANDARD (NOT CDC). For details about differences between ANSI and CDC I/O, see Chapter 9 of the MNF manual. Note that the A parameter on the MNF control card will have the action defined in the manual: switch to CDC I/O rather than the default ANSI I/O. Other features of the new versions are:

1. The cross reference map has been improved, including an additional table giving lengths of various parts of each subprogram.
2. NAMELIST I/O statements have been corrected.
3. The TRACE SUBPROGRAM FLOW statement has been corrected (Chapter 10 of the latest edition of the MNF manual).
4. The infinite loop of error messages from certain bad FORMAT statements has been corrected.
5. A PP CALL ERROR message has been eliminated when a too-large blank COMMON declaration is given.
6. A correction has been made so that ECS variables in a TRACE statement are ignored (and no error message is given).
7. A correction has been made to allow a FUNCTION to have the same name as a file in the PROGRAM statement.
8. A correction has been made to allow a FUNCTION name to appear as an argument to LOCF.
9. The setup machine instructions at the beginning of a main program compiled using the C parameter on the MNF control card (FTN calling sequence) has been modified to simplify the necessary instructions.
10. An expression of the form SHIFT(MOD(I,5),II) or LRSHT(MOD(I,5),II) has been corrected to generate the proper machine instructions.
11. Previously, error messages involving CALL's or FUNCTION references in the user's program gave a list of octal addresses where the name had been used as an external reference. This has been changed so that only the list of program units where the name had been used is given, with the expectation that the cross reference maps for those program units would be used to locate the exact statements referencing this name.

## FUTURE PLANS FOR MNF

A version of MNF generating relocatable machine instructions which can be loaded by the operating system loader is in the process of being written and tested. (Presently MNF compiles non-relocatable machine instructions directly inside memory.) Within the next six months, the new version will replace the regular 6600 and 6400 time-sharing versions of MNF. Only a few users will be affected by the change (chiefly, those that use the B parameter on the MNF control card). Appendix A of the latest edition of the MNF manual has a section describing the planned relocatable version.

## UCC SHORT COURSES

The following short courses have been scheduled for Winter Quarter. No fees are charged and registration is required only for the keypunch workshops. Attendance at the first session, INTRODUCTION TO THE COMPUTER CENTER, is required for all courses. The listed reference materials are available in the Engineering Bookstore.

## INTRODUCTION TO THE COMPUTER CENTER

A general introduction to the Computer Center; equipment, terminal locations, account numbers, job submissions, keypunch sites, tape purchase, necessary forms; how to use the Center.

DAYS : Friday, January 4  
 HOURS : 1:00 - 3:00 PM  
 ROOM : MechE 18  
 INSTRUCTOR : R. Franta  
 REFERENCES : Materials from instructor.

## BEGINNING FORTRAN

A presentation of the basic features of the FORTRAN language.

DAYS : January 7, 9, 11, 14, 16, 18  
 HOURS : 1:00 - 3:00 PM  
 ROOM : MechE 18  
 INSTRUCTOR : R. Franta  
 REFERENCES : MNF Reference Manual.

## ADVANCED FORTRAN

ENCODE/DECODE, use of Hollerith characters, ECS, overlays, COMMON, load maps, debugging, dump reading.

DAYS : January 21, 23, 25, 28, 30, February 1  
 HOURS : 1:00 - 3:00 PM  
 ROOM : MechE 18  
 INSTRUCTOR : R. Franta  
 REFERENCES : MNF Reference Manual.

## BEGINNING COMPASS

COMPASS is the assembly language for the CDC 6000 series machines. CPU instructions, pseudo instructions, macros, hardware organization, interfacing with FORTRAN. Possibly CPU common decks, timing.

DAYS : February 4, 6, 8, 11, 13, 15  
 HOURS : 1:00 - 3:00 PM  
 ROOM : MechE 18  
 INSTRUCTOR : B. Fox  
 REFERENCES : CDC COMPASS Reference Manual (#60279900). Materials from instructor.

## INTRODUCTION TO SNOBOL

An introduction to programming in a character manipulation language (SNOBOL=StriNg Oriented and symBolic Language.) Prerequisite: knowledge of at least one higher level language such as FORTRAN or ALGOL.

DAYS : February 18, 20, 22  
 HOURS : 1:00 - 3:00 PM  
 ROOM : MechE 18  
 INSTRUCTOR : A. Mickel  
 REFERENCES : The SNOBOL4 Programming Language, by Griswold, et al.

## XMIT/SEND

Introduction to the use of the ECS link between the 6400 MERITSS system and the 6600 MOMS system; procedures and necessary permissions.

DAYS : February 25, 27, March 1  
 HOURS : 1:00 - 3:00 PM  
 ROOM : MechE 18  
 INSTRUCTOR : R. Williams  
 REFERENCES : Materials from instructor.

## INTRODUCTION TO MERITSS

Introduction to the time sharing system; use of control statements, use of files, permanent files, control card utilities.

DAYS : January 7, 9, 11  
 HOURS : 3:00 - 5:00 PM  
 ROOM : MechE 18  
 INSTRUCTOR : R. Williams  
 REFERENCES : MERITSS Handbook

**XEDIT UNDER MERITSS**

XEDIT (extended interactive text editor) is a program designed to make changes to a program file quickly, easily, and accurately.

DAYS : January 14, 16, 18  
 HOURS : 3:00 - 5:00 PM  
 ROOM : MechE 18  
 INSTRUCTOR : D. Mears  
 REFERENCES : Materials from instructor.

*The following courses are the first introductions to the KRONOS 2.1 Operating System on the batch CDC 6600. The basic reference source is the CDC KRONOS 2.1 Reference Manual (#60407000).*

**INTRODUCTION TO KRONOS 2.1**

Accounting changes, job cards, bin cards, passwords, security, remote job entry, utilities, where to read for other information.

DAYS : January 21, 23, 25, 28  
 HOURS : 3:00 - 5:00 PM  
 ROOM : MechE 18  
 INSTRUCTOR : R. Franta, and others

**CONTROL CARDS UNDER KRONOS 2.1, KCL**

DAYS : January 30, February 1  
 HOURS : 3:00 - 5:00 PM  
 ROOM : MechE 18  
 INSTRUCTOR : T. Lanzatella

**PERMANENT FILES UNDER KRONOS 2.1**

DAYS : Monday, February 4  
 HOURS : 3:00 - 5:00 PM  
 ROOM : MechE 18  
 INSTRUCTOR : K. Matthews

**TAPES UNDER KRONOS 2.1**

DAYS : Wednesday, February 6  
 HOURS : 3:00 - 5:00 PM  
 ROOM : MechE 18  
 INSTRUCTOR : R. Gulbranson

*The following 3 courses conflict in schedule with several of the introductory courses listed above. Call S. Nachtsheim (373-7878) if you have any problems.*

**COBOL**

An introduction to the COBOL language, use of mass storage, program libraries, and other facilities. (Some previous programming experience required.)

DAYS : February 4, 6, 8, 11, 13  
 HOURS : 3:00 - 5:00 PM  
 ROOM : Aero 21  
 INSTRUCTOR : S. Nachtsheim  
 REFERENCES : CDC COBOL 3 Reference Manual (#60253000).

**SCOPE INDEXED SEQUENTIAL (SIS)**

An introduction to indexed sequential mass storage file manipulation with emphasis on the SCOPE software product. SIS is usable with COBOL, FORTRAN, and COMPASS.

DAYS : February 18, 20, 22  
 HOURS : 3:00 - 5:00 PM  
 ROOM : Aero 21  
 INSTRUCTOR : S. Nachtsheim  
 REFERENCES : CDC SCOPE INDEXED SEQUENTIAL (SIS) Reference Manual (#60305400).

**SYSTEM 2000**

This course teaches the student how to use System 2000, a generalized data base management system. Techniques for defining data bases, retrieving and updating, and using the data base through FORTRAN and COBOL are discussed.

DAYS : February 25, 27, March 1, 4, 6, 8  
 HOURS : 3:00 - 5:00 PM  
 ROOM : Aero 21  
 INSTRUCTOR : S. Nachtsheim  
 REFERENCES : System 2000 Reference Manual, System 2000 Users Guide

*The following requires registration.*

**KEYPUNCH WORKSHOPS**

Half-hour workshops on the use of the keypunch. Only 1 session is necessary; each session is limited to 10 people. Use the sign-up sheet on the door of Room 223 ExpEng or call 373-2521.

DAYS : January 7, 8, 9, 10, 11, 14, 15, 16, 17, 18  
 HOURS : 8:30 - 9:00 AM  
           3:30 - 4:00 PM  
 ROOM : 223 ExpEng  
 INSTRUCTOR : P. Gerlach

## BRIEF NOTES

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*Merry Christmas and a Happy New Year*

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## CDC 6600 USAGE FOR NOVEMBER

|                    |        |
|--------------------|--------|
| Jobs run:          | 71,478 |
| from ExpEng        | 30.2 % |
| from Lauderdale    | 11.4 % |
| from West Bank     | 19.8 % |
| from other remotes | 35.4 % |
| for maintenance    | 3.2 %  |

## Average times:

|                  |              |
|------------------|--------------|
| on input queue   | 17.1 minutes |
| at control point | 5.0 minutes  |
| on output queue  | 5.3 minutes  |
| printing         | 1.6 minutes  |

\*\*\*\*\*

SYSTEM NOTES... the following SYSTEM NOTE appeared on Tuesday November 27, 1973 (SYSNOTE # 52)

## Remote terminal users:

In an effort to decrease the amount of idle connect time, the UCC will be experimenting with various time-out procedures. Presently after four continuous idle minutes of connect time, a time-out occurs and the terminal is disconnected. Any questions or comments may be directed to: Richard Franta, 214 ExpEng.

## Private disk pack users:

The private pack drive, which was down on November 26 and 27, is now up and running.

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## PROGRAM TROUBLE REPORTS (PTR's)

The following is a listing of current PTR's. Copies are also available at the consultant's desk in Room 140 ExpEng.

## PROGRAM TROUBLE REPORTS AS OF 05 DEC 73

\*\*\*\*\*  
MNF AND MNF RATCH  
\*\*\*\*\*

- 1\*FIRST ITEM WILL NOT BE STORED PROPERLY  
DATA (IS(I), I=1,5)/5,6,7,8,9/
- 2\*  
PRINT IS,X,Y  
SHOULD GIVE #UNDEFINED VARIABLE# MESSAGE FOR THE IS,BUT DOES NOT
- 3\* ON MNF (C) COMPILATION BUFFER LENGTH MUST BE DEFAULT LENGTH
- 4\*FOLLOWING PROCESSED CORRECTLY BUT CAUSES #DATA LIST TOO LONG# MESSAGE  
DIMENSION AA(5)  
DATA AA(1) /1/
- 5\*DO INDEX AND TERMINATOR USED IN ONE STATEMENT DO GIVES ERROR FOR RESULT  
DO 10 I=1,4  
10 J=J+4/I
- 6\*  
COMMON /AA/ A,B  
DIMENSION C(2)  
EQUIVALENCE (A,((1)),(B,C(2)))  
EQUIVALENCE IS NOT DONE FOR ABOVE
- 7\*  
EQUIVALENCE (A(1,2,3),B)  
NOT DIAGNOSED-TRAILING COMMAS NOT DETECTED

- 8\* EQUIVALENCE (A,B) (C,D)  
NOT DIAGNOSED-MISSING COMMA NOT DETECTED
- 9\*AN INTEGER STATEMENT CONTAINING A FUNCTION WILL CHANGE THE NAME OF THE FUNCTION AND TYPE IT INCORRECTLY
- 10\* IF (I.EQ.J)IF(K.EQ.L) GO TO 5  
JP TO CELL ZERO GENERATED FOR NESTED LOGICAL IF
- 11\*REAL MASKING EXPRESSION TO REAL POWER GENERATES JP TO CELL 1  
A=(R.AND.C)\*\*0
- 12\*NAMELIST INPUT DOES NOT WORK
- 13\*A SUBROUTINE CALL WITH SAME NAME AS A FILE ON PROGRAM STATEMENT GETS ZERO FUNCTION CODE AT EXECUTION  
PROGRAM IT(INPUT,OUTPUT)  
CALL INPUT  
END  
GETS ZERO FUNCTION CODE IN CELL 1
- 14\*SWITCHES ALWAYS SENSED OFF-SSWITCH DOES NOT WORK
- 15\* DO 1 I=1,N  
11 S(I)=X  
IF S IS BOUNDS TRACED, VALUES FOR ARRAY S ARE INCORRECT
- 16\*FUNCTION UNIT CAUSES WRONG RESULT FOR LAST STORE  
J=0  
IF (UNIT(I))1,2,3  
(J WILL NOT =0 FOLLOWING IF)

\*\*\*\*\*  
MNF BATCH ONLY  
\*\*\*\*\*

- 1\*DATA FROM INPUT FILE READ INCORRECTLY IF MORE THAN 50 INPUT CARDS

\*\*\*\*\*  
FTN  
\*\*\*\*\*

- 1\*FOR B, A VARIABLE DIMENSIONED ARRAY AND IX,IY NEGATIVE  
R(IX+N,IY+M) OR R(IX+M,IY+N,IZ+K)  
WILL NOT BE COMPUTED PROPERLY

- 2\*ON MODIFY COMPILE FILE FTN ALTERS CARD 513,2053,ETC.

- 3\* IF(1H ) 2,10,11  
IF(1RA-1B) 10,3,11  
WILL CAUSE FTN COMPILER TO MODE EXIT

- 4\* CC(IA-1)=BC(IA-1)=1A=TR=DC(1)=CC(2-1) = 2  
FOR CC A COMPLEX ARRAY, DC A DOUBLE ARRAY, BC A REAL ARRAY CAUSE FTN COMPILER TO MODE EXIT

\*\*\*\*\*  
RUN/FUN  
\*\*\*\*\*

- 1\*DMAX1 AND DMIN1 WILL GIVE WRONG RESULT WHEN DIFFERENCE IN NUMBERS IS VERY LARGE
- 2\*R AND H DATA CONSTANTS CONSISTING OF 1 ONLY ARENT CONVERTED PROPERLY
- 3\*CONSTANTS GREATER THAN 1.E+300 ARE NOT HANDLED PROPERLY
- 4\*A DOUBLE PRECISION NUMBER NEAR 9E-280 DIVIDED BY A NUMBER > 1 DOES NOT PRODUCE EXPECTED UNDERFLOW, RESULT IS SMALLEST NONZERO DOUBLE PRECISION NUMBER
- 5\*FOR C1 COMPLEX, THE EXPRESSION 0-C1 IS MISCOMPILED IF IT IS AN ACTUAL PARAMETER TO A SUBROUTINE CALL CPS(0-C1)

\*\*\*\*\*  
RUN/FUN/FTN  
\*\*\*\*\*

- 1\* A NUMBER WHICH IS EXACTLY 2\*\*N IS NOT COMPARED CORRECTLY WITH A NUMBER OF EXACTLY 1 BIT LESS  
A=1717777777777777777  
B=172040000000000000000000  
IF(B.GT.A) GO TO 5

\*\*\*\*\*  
 FORTRAN OBJECT PTN  
 \*\*\*\*\*

1\*MATHEMATICAL ROUTINES WILL MODE EXIT IF AN UNNORMALIZED ARGUMENT IS SUPPLIED

2\*ACOS(1.4) GIVES UNNORMALIZED ZERO WHICH I/O ROUTINES CONVERT TO 100.

\*\*\*\*\*  
 MOMS  
 \*\*\*\*\*

1\*ACQUIRE DOESNOT BLANK OUT PASSWORDS IN DAYFILE LISTING  
 A,STFOPL,PN= SYS,SYSX.

2\*FOR LOGICAL RECORD <HALF TRACK LONG AND ENDING EXACTLY ON HALF TRACK BOUNDARY ISP WILL NOT BACKSPACE  
 OVER THE RECORD

3\* CHF(IN,OUT,1,NREC)  
 WILL TIME LIMIT IF EOF ON INPUT FILE IS MISSING(I.E. THE FILE HAS ONLY EOF)

4\*WHEN COPYING ZERO LENGTH FILES ROUTINES CCF,CHF,ETC. WILL COPY TO THE EOF

5\*SYSTEM RANDOMLY LOSES JOB ECS FIELD LENGTH--ISSUES MODE EXIT WHEN JOB REFERENCES ECS

6\*UNDER RUN/FUN A DOUBLE PRECISION NUMBER RAISED TO NEGATIVE INTEGER ZERO GIVES WRONG ANSWER

DOUBLE DA  
 DA=4.000  
 DA=DA\*\*(-0)

(RESULT WILL BE DA =4.000,NOT 1.000)

7\*ROUTINE TO READ NEXT CONTROL CARD(ACE) DOES NOT STORE ZERO WORD AFTER CARD IMAGE WHEN IMAGE IS MULTIPLE  
 OF 10 CHARACTERS.COULD CAUSE PROBLEMS IN MMLOADER WHICH READS CONTROL CARDS OR IN UPDATE2 WHICH HAS  
 CONTINUATION CONTROL CARDS

8\*IF REQUEST IS ABORTED AND EXIT SEQUENCE USES REQUESTED FILE NAME.JOB WILL HANG UNTIL OPERATOR DROPS IT.  
 TIME COUNTS WHILE HUNG.

\*\*\*\*\*  
 COROL  
 \*\*\*\*\*

1\*ERROR MESSAGES MAY PRINT A FEW LINES OFF

\*\*\*\*\*  
 SORTMERGF  
 \*\*\*\*\*

TAGSORT HAS BUGS USE NORMAL SORT INSTEAD

6600 OPERATING HOURS

|           | 12:01AM | 2AM | 3AM | 4AM | 8AM  | 2PM | 4PM | Midnight |
|-----------|---------|-----|-----|-----|------|-----|-----|----------|
| Sunday    |         |     |     |     |      |     |     |          |
| Monday    | .....   |     |     |     | //// |     |     |          |
| Tuesday   | .....   |     |     |     | //// |     |     |          |
| Wednesday | .....   |     |     |     | //// |     |     |          |
| Thursday  | .....   |     |     |     | //// |     |     |          |
| Friday    | .....   |     |     |     | //// |     |     |          |
| Saturday  | .....   |     |     |     | //// |     |     |          |

/// (LAD, EXP, WB)  
 ||| (LAD, EXP)  
 ... (LAD only)

MEDIUM SPEED REMOTE TERMINALS

| Site       |        | Supervisor                                   |
|------------|--------|--|
| 38 ElectE  | (East) | J. Guentzel/373-5404<br>M. Cook/373-3895     |
| N640 EltH  | (East) | J. DeWitt/376-7377<br>N. DeWitt/376-7377     |
| 140 ExpEng | (East) | R. Franta/376-3963                           |
| S191 KoltH | (East) | T. Faulkner/376-7024<br>J. Abdallah/373-2348 |
| 321 MinMet | (East) | C. Swanson/373-5475<br>R. Olfke/373-5680     |
| 69 Physics | (East) | Bob Scarlett/373-0243<br>Dave Olson/373-0044 |
| 54 BA      | (West) | G. Lutgen/373-3608                           |
| 415 CofH   | (StP)  | D. Nelson/376-7003<br>T. Ehlen/376-7003      |
| 24 No H    | (StP)  | J. Colton/373-0990<br>D. Rignell/373-0990    |
| 257 BioSci | (StP)  | R. Comstock/373-0928<br>H. Meyer/373-3067    |
| 384 HortS  | (StP)  | J. Heinen/373-1086<br>M. Brenner/373-0949    |
| 125G COB   | (StP)  | C. Bingham/373-0988                          |
| User Room  | (Laud) | Shift Sup./373-4940                          |

KEYPUNCH LOCATIONS

(number of punches in parentheses)

| East Bank  |      | St. Paul   |      |
|------------|------|------------|------|
| 38 ElectE  | (1)  | 257 BioSci | (1)  |
| N640 EltH  | (1)  | 125G COB   | (1)  |
| 130 ExpEng | (2)  | 415 CofH   | (1)  |
| 131 ExpEng | (1)  | 384 HortS  | (1)  |
| 208 ExpEng | (8)* |            |      |
| 223 ExpEng | (4)  | West Bank  |      |
| S191 KoltH | (1)  | 90 BlegH   | (2)  |
| 321 MinMet | (1)  |            |      |
| 69 Physics | (1)  | Lauderdale |      |
|            |      | Users Room | (4)* |

\*includes 1 interpreting card punch.

CONSULTING HOURS FOR QUARTER BREAK

December 13 through January 2nd:

M-F 1:30 - 3:30 Lauderdale  
 1:00 - 3:00 ExpEng

(No Saturday or Sunday consulting; NO CONSULTING on December 24, 25, 31, January 1).

TELEPHONES

|          |                                      |
|----------|--------------------------------------|
| 373-4548 | Account Clerk, 6600                  |
| 373-7753 | Account Clerk, 6400                  |
| 373-4596 | ExpEng I/O                           |
| 376-7584 | Field Engineering                    |
| 373-2521 | Keypunch Supervisor                  |
| 373-4940 | Lauderdale Shift Supervisor          |
| 373-4995 | Microfilm Operator (leave a message) |
| 373-4876 | Operations (R. Folden)               |
| 373-4994 | Recorded Message                     |
| 373-7744 | Reference Librarian                  |
| 376-3963 | Remote Job Entry Coordinator         |
| 373-4995 | Tape Librarian (leave a message)     |
| 373-4360 | UCC Office                           |
| 373-4599 | User Services (T. Hodge)             |
| 373-4921 | User's Room (Lauderdale)             |
| 373-3608 | West Bank I/O                        |

REFERENCE MANUALS

| CDC Reference Manuals         |           |
|-------------------------------|-----------|
| APEX                          | 86615300B |
| ALGOL Version 2               | 60306100D |
| COBOL Version 3               | 60253000E |
| COMPASS Version 2             | 60279900D |
| FORTRAN EXTENDED Version 3    | 60176600K |
| FTN DEBUG Users Guide         | 60329400B |
| FORTRAN (RUN/FUN) Version 2.3 | 60174900F |
| MIMIC Simulation Language     | 44610400E |
| MODIFY                        | 60281700C |
| PERT/TIME                     | 60133600C |
| SCOPE Version 3.2             | 60189400L |
| SIMSCRIPT Version 2           | 60178300C |
| SIMULA                        | 60234800E |
| SORT/MERGE Version 3          | 60252600D |
| 6000/7000 Computer Systems    | 60100000W |

BMD: Biomedical Computer Programs  
 BMDX: Biomedical Computer Programs  
 IMSL Library Catalog  
 MNF Reference Manual  
 OMNITABII Programmers Reference Manual  
 OMNITABII, An Introduction to  
 SPSS: Statistical Package for the Social Sciences  
 SPSS Supplement (Version 5.0)  
 UMST: U of Minnesota Statistical Programs  
 UCC Users Reference Manual

## THE SUGGESTION BOX

- Q/S Please avoid locking the lauderdale door at midnight. Even though the staff is reduced at night, the users form a well integrated social structure and will discourage any burglars, perverts, or winos, etc. The sign "wait 10 minutes" suggests that the management views its clientele as either 1) cold, inhuman machines, or 2) people who might as well freeze to death in January.
- A Your suggestion reveals that you are well aware of one reason for locking the door at midnight, for security. Other Lauderdale night-time users have indicated that users do not necessarily form "a well integrated social structure" and our operators simply should have some idea of who is coming in and working (or not working) at the Center.
- The "wait 10 minutes" on the sign is unfortunate in that it does not say what we originally meant to say. The operator (sometimes working alone) cannot always immediately leave a job to answer the door resulting in some impatient users resting with finger on the button until help arrives! The sign means that no wait should be more than 10 minutes, the average is perhaps 2 minutes or less.
- A suggestion...on very cold nights, the operator might not object if you wait in your warm car for him... flash your lights or honk your horn when he comes to the door...he won't mind waiting a few minutes for you...also, you might come before midnight.
- Q/S This computer center really needs another keypunch or two. They are even overused sometimes on weekends.
- A The overuse (and abuse) of the keypunches is seasonal. Check out different hours of the day or different days of the week. The keypunches at Lauderdale are little used in the early morning hours, say a little after 8 AM. There are keypunches at the medium speed remote sites, check these out. Also, if you are a little more forceful in insisting that the posted regulations are followed by all users you may have less trouble. None-the-less, four additional keypunches are on order and should arrive next quarter.

RETURN TO:  
UNIVERSITY COMPUTER CENTER  
227 EXPERIMENTAL ENGINEERING  
UNIVERSITY OF MINNESOTA  
MINNEAPOLIS, MN 55455

UNIVERSITY ARCHIVES  
ROOM 11 WALL  
MINNEAPOLIS CAMPUS



# INPUT / OUTPUT

USERS WHO WISH TO EXCHANGE INFORMATION ON PROGRAMS, EQUIPMENT, ETC.  
WITH OTHER UCC USERS MAY USE THIS FORM TO SUBMIT THE INFORMATION.

TO: EDITOR, NEWSLETTER  
UNIVERSITY COMPUTER CENTER  
ROOM 227 EXPERIMENTAL ENGINEERING  
UNIVERSITY OF MINNESOTA  
MINNEAPOLIS, MN 55455

PLEASE PUBLISH THE FOLLOWING MESSAGE IN THE INPUT/OUTPUT SECTION OF THE  
NEXT UCC NEWSLETTER:

MESSAGE: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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CONTACT:  
NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
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TELEPHONE \_\_\_\_\_