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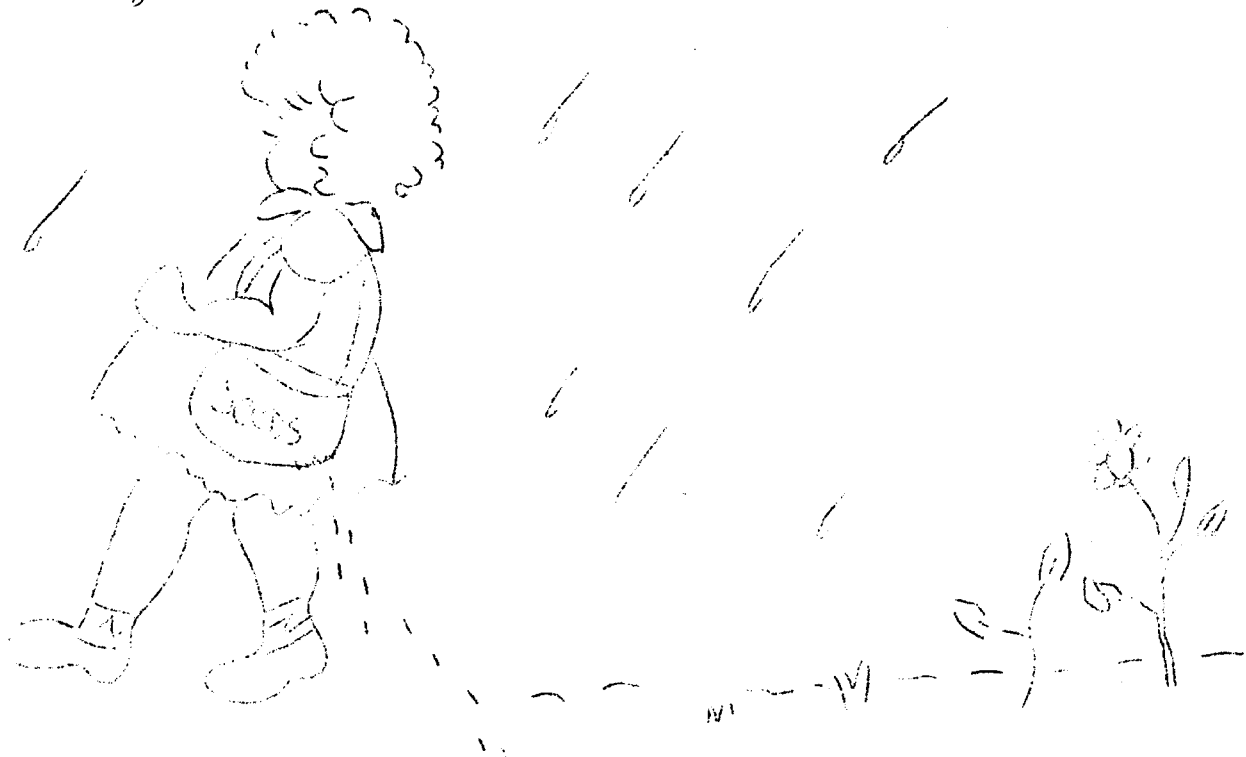


TABLE OF CONTENTS	
New Remote Terminals	- p. 2
CDC 6600 Use for March	- p. 3
Tape Conversions	- p. 3
Short Courses	- p. 4
New Consulting Hours	- p. 4
March System Notes	- p. 5

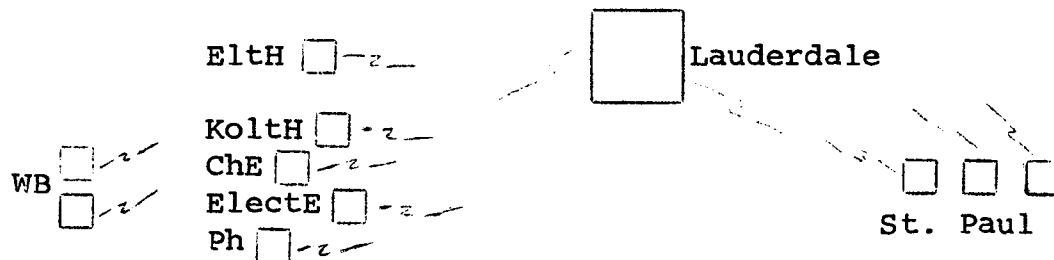
Notes & Comments  
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University Computer Center  
University of Minnesota  
Minneapolis, Mn 55455

MEDIUM SPEED REMOTE TERMINALS

The University Computer Center is presently in the process of bringing into service a number of medium speed remote terminals to the CDC 6600. These terminals communicate with the 6600 over standard telephone lines and provide batch processing on the 6600. In operation, these terminals will normally be open shop (the user will run his own jobs) and will be open to all users. However, since the care and supervision of the terminals will be in the hands of different departments or computing groups, these groups may set different operating schedules. The terminals accept all standard 6600 jobs except that binary decks cannot be read.

Jobs are read in at the remote station, 'compressed', and sent over voice-grade telephone lines to the 6600 at Lauderdale where they are 'expanded', placed in queue and run. Output is 'compressed' and returned by the same telephone lines to the remote terminal where it is printed.



The three terminals presently in operation are:

- 1) Coffey Hall (StP) - Room 302
- 2) Elliot Hall - the terminal is in Room 419; keypunch is in Room 418; work space is available in Rooms 420 & 421

This terminal is open from 8 AM - 4:30 PM daily. The operation is completely open shop, and may be used by anyone. It is supervised by the Psychology-Education Computer Committee (Chairman, Professor Raymond Collier). The printing rate is about 200-300 lines per minute so users with large amounts of printing are asked to use the UCC or West Bank high speed terminals.

- 3) Kolthoff Hall - Room S181; a keypunch is also available

The terminal is open during all 6600 operational hours and is completely open shop. The maximum read rate is 400 cards per minute and the maximum printing rate is 600 lines per minute. These will be slower in operation because of the limiting communication speed.

Two terminals, one on the West Bank and one on the St. Paul campus will be operational at the end of April.

Within three months, five more terminals will be operational:

- 1) West Bank (2nd terminal)
- 2) St. Paul (3rd terminal)
- 3) Chemical Engineering building
- 4) Electrical Engineering building
- 5) Physics building

In addition to these ten terminals, nine other medium speed remote terminals are communicating with the 6600; one on the Duluth Campus, one on the Morris Campus, one on the St. Paul Campus and six at off-campus locations. However, these are dedicated terminals and not available to Twin City Campus users.

#### CDC 6600 USE FOR MARCH

49,724 jobs were run on the 6600 in March

- 49% from the ExpEng station
- 24% from Lauderdale
- 15% from the West Bank station
- 7% from CDC200 user terminals
- 5% for maintenance (tape checking, etc.)

Average time of job

- on input queue 10.3 minutes
- at control point 7.1 minutes
- on output queue 6.9 minutes
- printing 1.6 minutes

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The following is reprinted from KONTACT, the newsletter for Health Computer Sciences:

#### TAPE CONVERSIONS

HCS offers tape conversions for combinations of 7-track and 9-track magnetic tapes and paper tapes. Various conversions are possible using existing programs, and special programs will be written for any user whose conversion specifications are incompatible with existing programs. Users can help reduce conversion costs by presenting clear, accurate and complete identification of the contents of the tapes they wish converted. Rates are \$17.00/hour computer time and \$10.00/hour programmer time. For further information, contact Mark Johnson, Tuesday through Friday afternoons, at 373-0331.

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SHORT COURSESUCC

Monday, May 8 through Friday, May 19, from 3:15 - 4:15 PM in Room 305 Main Engineering.

TITLE : Input/Output on the 6600

CONTENT: Number systems; central memory word formats; character coding sets; physical tape structures, SCOPE record structure, unit records, logical records, record levels; Fortran I/O and status checking, sequential, random access (READMS,WRITEMS), ECS (READDEC,WRITEEC); effect of Fortran format specifications; SCOPE utility I/O, copy routines, BLOCK; pack files

The course is free and no registration is necessary. For further information, see Barry Fox, Room 212 Experimental Engineering (376-7289).

SSRFC

The Social Sciences Research Facilities Center will offer a one-week short course on SPSS (Statistical Package for the Social Sciences) in April. The course runs from Monday, April 24th through Friday, April 28th from 4:00 to 5:00 PM in Room 125 Blegen Hall on the West Bank. There is no required reference but the book SPSS by N.H. Nie, D.H. Bent and C.H. Hull is useful and is available in the West Bank bookstore.

For further information, call 373-5599.

CONSULTING HOURS FOR 6600 USERS

The Spring Quarter consulting schedule is detailed below. Note the additional hours both at UCC and at Lauderdale and the addition of Sunday hours at Lauderdale.

Monday - Thursday

9:00 AM - 4:00 PM (through noon hour)	238 ExpEng
7:30 PM - 9:30 PM	238 ExpEng
1:30 PM - 3:30 PM	Lauderdale
7:30 PM - 9:30 PM	Lauderdale

Friday

9:00 AM - 12:00 Noon	238 ExpEng
1:00 PM - 4:00 PM	238 ExpEng
1:30 PM - 3:30 PM	Lauderdale
(no evening hours)	

Saturday

10:00 AM - 12:00 Noon	238 ExpEng
(no Lauderdale hours)	

Sunday (after May 1)

8-10 PM	Lauderdale
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The following SYSTEM NOTE appeared in March:

\* \* \*     S Y S T E M   N O T E S   -   TUE 28MAR72. \* \* \*     30.

END-OF-JOB PROCESSING HAS BEEN IMPROVED AND EXPANDED AS FOLLOWS:

THE JOB TOTALS APPEARING IN THE DAYFILE AT THE END OF A JOB HAVE BEEN EXPANDED AND REFORMATTED. IN ADDITION TO CPU, PPU, AND ECS TIMES, THE INDIVIDUAL CHARGES ALSO APPEAR, ROUNDED TO THE NEAREST CENT. THESE ROUNDED CHARGES ARE INTENDED FOR USER INFORMATION ONLY AND ARE NOT USED TO DETERMINE THE MONTHLY CHARGES. THE TOTAL COST DOES NOT REFLECT SUPPLY COSTS (PAPER, CARDS, TAPE MOUNTS, ETC.).

THE FORMATS OF SOME ERROR MESSAGES HAVE BEEN CHANGED. TWO NEW MESSAGES HAVE BEEN ADDED:

ERROR FLAG = 3.   PP ABORT.

ERROR FLAG = 4.   CP ABORT.

THESE MESSAGES INDICATE THAT EITHER A CP PROGRAM OR A SYSTEM PP PROGRAM HAS REQUESTED THAT THE JOB BE ABORTED. THE CP OR PP PROGRAM MAY ALREADY HAVE ISSUED ANOTHER MESSAGE INDICATING THE SPECIFIC ERROR.

THE FOLLOWING DAYFILE MESSAGE IS NOW ISSUED WHEN A FILE BUFFER HAS BEEN LEFT IN A NON-EMPTY CONDITION BY A PROGRAM AND IS EMPTIED BY THE SYSTEM END OF JOB PROCESSOR:

1EU - BUFFER DUMPED - FILENAME.

THIS CONDITION WILL USUALLY OCCUR AFTER A FATAL ERROR HAS INTERRUPTED A PROGRAM DURING EXECUTION.

\* \* \*   E N D   O F   N O T E   \* \* \*

?COMMENTS PLEASE?

UCC is studying the possibility of converting to the KRONOS operating system on the CDC 6600 as some other universities have done. We are setting up a user committee to study the problems of conversion and we invite comments and suggestions for the consideration of the committee and UCC.

KRONOS on the 6600 does not imply timesharing on the 6600.