



# PERMANENT FILES

--by K. Matthews

**IMPROVED SECURITY** -- Users are reminded that all files are now treated as "secured" permanent files. This means that all files are preserved on magnetic tape and are restored if there is a disk malfunction. This new policy was announced in the June newsletter and became effective on July 1st.

**NEW DISK DRIVES** -- In July, three more double density (844-41) disk drives will arrive at UCC to replace two single density (844-21) drives. The double density drives hold 221 million characters contrasted to the single density capacity of only 110 million characters; our net gain will be 443 million characters.

**NEW AUXILIARY DEVICE** -- Another auxiliary device, to be named PF02, will be created on one of the new double density devices to augment the already existing PF01. Remember this about the auxiliary devices:

- (1) You must know the name of the device to use it, just as you must for removable devices, for example:  
ATTACH,SAM/PN=PF01.
- (2) The auxiliary devices are not removable and no RESOURC card is needed. They are always available to the system.
- (3) The auxiliary devices were created for two uses: to store large permanent file catalogs (more than 20,000 sectors per user number) and to temporarily store indirect access files.

**When Using CATLIST** -- The SC parameter on the CATLIST control statement will give the length of permanent files in sectors rather than characters on a full (LO=F) listing. For example,  
CATLIST(LO=F,SC)

The system "recognizes" file length as number of sectors; the default length (in characters) is simply the number of sectors times 640.

**ARCHIVING** -- Remember that unused permanent files are archived at the beginning of each month. Files that have not been accessed for one month are saved on special archive tapes on the 1st (or near the 1st) of each month. Previously, "secured" permanent files could remain un-accessed for three months before being archived. However, since all files are now secured, the one month limit is needed to keep the disk from becoming filled.

**BACKING UP INDIRECT ACCESS FILES** -- All files at UCC are now dumped to tape periodically. If it becomes necessary to reload a device, a copy of the file, up to 12 hours old, will be reloaded. In very bad cases, where the latest backup tape may fail, a 24 hour old file might have to be reloaded.

In most cases this is a reasonable reload time. However, if you have spent a full day updating a file, it may be quite distressing to find that the file has been reloaded as of the previous 8 AM. Since UCC cannot continuously dump files during the day, this is the best we can do.

If you are working with time intensive files, you can protect yourself by keeping two copies of your files on the disk; one on your normal permanent file catalog and one on an auxiliary device such as PF02. These are physically separate disk drives and the chance of both copies being destroyed and reloaded is

very small. For example, after you spend a full day updating file SAM, the statement

REPLACE,SAM.

replaces the file in your normal permanent file catalog. Then the statement

REPLACE,SAM/PN=PF02.

puts an extra copy on device PF02. The control card

CATLIST.

will show that file SAM is in the normal permanent file catalog and the control card

CATLIST,PN=PF02.

will show that SAM is also in the permanent file catalog on PF02. Later, you can check to see if the files are the same in this way:

GET,SAM.

GET,TEST=SAM/PN=PF02.

VERIFY,SAM,TEST.

If the verify fails, you would then have to investigate the files to see which was the one you wanted. (If a device is reloaded, this fact will be noted in the BIN message or on WRITEUP,NOTE.)

Remember that you are charged storage space for each copy of the file kept, so be sure to purge the extra copy when you no longer need two copies. Also, if you intend to use the auxiliary devices in this fashion, please execute

CATLIST,PN=PF02.

occasionally so that you can see and purge any forgotten files.

Not all user numbers can use the auxiliary devices. The CSR validation bit must be "on" in your user number validations. You may determine this by executing a LIMITS control card. Normally, most research user numbers have this validation bit set "on" and can thus use the auxiliary devices.

## LEVEL CHANGES

--by H. Kurs

On July 19, FUTURE version 4 COBOL, SORT/MERGE, and Record Manager products will be updated and made available to users. The updated versions will be Level 12: PSR420 and will replace Level 11: PSR411 products. The current versions of these products will remain at Level 10: PSR401.

## PLOTTING

--by M. Frisch

The Statos 31 electrostatic plotter post-processing program, PSTPRC, has been modified to handle plots longer than 20 inches. However, such plots are not handled as efficiently as shorter plots. This change makes the field length of PSTPRC 26000 words. This modification will be made on Monday, July 12, 1976.

# TAPES

--by W. Elliott

A tape library manager called TAPES will be available for use about the middle of July. TAPES will allow users to (1) determine which tapes they own, (2) gather usage statistics, (3) control access by using access codes and passwords and permit other users to access individual reels, and (4) associate a descriptive comment with each VSN.

TAPES works for both labeled and unlabeled tapes stored in the UCC tape library but does not work for transient tapes.

The TAPES control card looks like this:

```
TAPES(funcnt,P1,P2,...,Pn)
```

where P1,...,Pn are parameters and funcnt is one of the following:

- AUDIT** Lists assigned VSNs.  
Lists detailed information for VSN if LO=F selected.  
Lists detailed PERMIT information if LO=P selected.
- SET** Changes values of password (PW), comment (CS), and reel access code (RA) for a specific VSN. The density (D), format (F), label type (LB), and conversion mode (CV) may be specified for display by the AUDIT processor.
- SETALL** Change values of password, comment, and/or reel access for all assigned VSNs.
- SELECT** Permit assignment of a tape based on the comment associated with it rather than strictly by VSN.
- PERMIT** Specify an alternate reel access (RA) for a specific user or group of users.

Only the tape owner (as defined by the user index) can use these functions to manipulate information and access codes associated with the tape. Permits, passwords, and reel access codes can be changed at any time by the owner. For labeled tapes, the reel access (RA) will override the file access (FA) character written in the label. Thus, a tape that is user-only (FA=A) may be changed to public read (RA=P) without a re-write of the label. Also, a reel access can be specified for those labeled and unlabeled tapes that have no access protection (FA=\$ \$).

Users who want to find out which tapes they own may execute:

```
TAPES.
```

for a VSN list only or, for a detailed list of tapes, execute:

```
TAPES(AUDIT,LO=F).
```

If the list appears incorrect, contact the Tape Librarian at 373-4995.

TAPES will be made available in the middle of July. However, any passwords, comments, or reel access codes that you set for your tapes will not take effect until the middle of August. This is to give you time to set these fields (if necessary) and will also give us time to fix any bugs that may surface. In mid-August the following changes will occur:

- (1) In general, LABEL card parameters will function as documented in the Control Data manuals. Local modifications made by UCC will appear as new parameters. Thus, control card com-

patibility with other sites using CDC software will be maintained.

- (2) If a file access (FA) other than FA=A or FA=\$ \$ is specified in the label of a transient tape, the FA must be specified on the LABEL card and must match the FA written in the label (this is the standard condition). Only FA=A (owner-only) will be enforced.
- (3) The FI will not be required. If specified, it will be compared to the current value in the label or written as the new FI value if the W parameter is also selected. The FI is no longer to be considered the password to a labeled tape; instead, use the PW parameter.
- (4) The W parameter will only indicate that a new label is to be written using values supplied by other LABEL card parameters. The W=OLDFI form is obsolete but will not cause an argument error until January, 1977.
- (5) The ID parameter will still be required for all tapes mounted as unlabeled. However, specifying the ID parameter will automatically default LB=KU. The ID parameter will continue to serve as an extra check to reduce the chance of mounting the wrong tape.
- (6) If a password (PW) has been defined for a VSN and the prospective user is not the owner, the correct password must appear as a parameter on the LABEL card (PW=password).
- (7) Use the reel access code (RA) to set the degree of access you wish to allow. In all cases, access will be permitted to alternate users only if the correct password is given (if one is defined). The RA codes are:
- RA=A Owner-only (default)
  - RA=P Public-read. Only the owner and permitted users may write on the tape; all others may read the tape.
  - RA=W Write. Any user may read or write the tape.
  - RA=R Read-only. Equivalent to placing a "no ring" condition on the tape; even the owner may not write on the tape.
  - RA=X Lockout. No access to the tape will be permitted to any user; permits for the tape will be ignored and automatic tape cleaning will not occur unless specifically requested by the owner in writing. Use this to secure a backup tape from accidental over-write.
  - RA=N Null. For KRONOS labeled tapes, the FA is used to provide security as described in (2) above. For other labeled tapes and for unlabeled tapes, no security is provided. Any user may read or write the tape.
- (8) The reel access (RA) code may be selectively set to another value for a specific user or group of users by using the PERMIT function of TAPES: up to 30 different PERMITs may be specified for a single VSN.

See the WRITEUP,TAPES listing for more detailed information concerning control card parameters. Any questions concerning problems or documentation deficiencies should be directed to Bill Elliott, UCC - Lauderdale, 376-5605.

## **COBOL 5**

--by H. Kurs

The COBOL 5 compiler and its corresponding conversion aids program are now available to COBOL users. This compiler is designed to conform to the ANSI 1974 COBOL standard; all ANSI 1974 modules are implemented except the communications facility and the high level inter-program communications facility.

Users can access the COBOL 5 compiler by using the following control cards:

COBOL5.  
or  
COBOL5(list) where list=COBOL5 directives.

The conversion aids program, LCS, can be accessed by:

LCS.  
or  
LCS(list) where list=LCS directives.

COBOL 5 is not compatible with COBOL 4. Therefore, users must first convert their COBOL 4 programs to COBOL 5 by using LCS, the conversion aids program. LCS provides the user with lists of COBOL 4 statements that were either automatically converted or will require manual conversion. After conversion, users should compile and execute their programs using COBOL5, the COBOL 5 compiler.

UCC is cooperating with Control Data in extensive testing of this compiler. UCC and Control Data will provide conversion assistance and computer time this summer to those users willing to participate in this testing. We will periodically offer short courses on COBOL 5 and the use of the conversion aids program.

Users are reminded that COBOL 5 falls in the category of experimental software at this time. The decision whether or not to install COBOL 5 as permanent software with a primary support level will be made after the testing period (June 15 - September 15), based on user demand and product acceptance.

Please contact Steve Nachtsheim, 373-7878, if you are interested in working with COBOL 5.

## **PRINTER CONTROLS**

--by N. Reddy

UCC has under consideration a new pair of carriage control characters (similar to the "1" used for page eject, "0" for line skip, etc.). The proposed new controls are:

- N if placed in column 1 of a print line, a "SUPPRESSION" flag will be turned on; all subsequent carriage control characters in that file will be ignored.
- L if placed in column 1 of a print line, the "SUPPRESSION" flag will be turned off, thus negating the effect of "N".

The line in which the N or L appears will not be printed.

This feature would be implemented for the sites at Lauderdale, Experimental Engineering, all 200 UT terminals, and all U1004 terminals. It is in no way intended to replace the UNPAGE utility.

A sufficient time interval would be allowed before implementation for all users to become aware of this feature.

We invite your opinion.

## **TIME SHARING**

--by R. Williams

As announced in the Spring Quarter user's meeting, UCC has decided to consolidate the Cyber 74 (MIRJE) and 6400 (MERITSS) operating system software. This consolidation will offer more attractive features for users as well as making more efficient use of UCC staff.

At the present time, the Cyber 74 is running the KRONOS 2.1.2 Level 12 operating system and the 6400 is running the KRONOS 2.1 Level 7 system. On August 15, 1976 (the target completion date), both systems will be running KRONOS 2.1.2 Level 12 (with modifications).

In addition to the change in the operating system, many of the features of the MIRJE system will be made available to MERITSS users and some MERITSS products will be changed or eliminated.

Changes that are obvious to users are listed on the MERITSS library file, SYSNOTE. To list this information, log on and enter this:

LIBRARY,SYSNOTE  
LNH

This SYSNOTE file will be updated as new changes are identified. The most recent change date is listed at the start of the file.

On the following Sundays:

July 25  
August 1  
August 8

the new system will be tested on MERITSS from 12 Noon to 4:00 PM (these are not normally operating hours). These test runs are to allow users time to test programs, identify problem areas, and familiarize themselves with the system.

We urge MERITSS users to utilize these test days to check out the system. Any problems, comments, or questions should be directed to the MERITSS Consultant, John Larsen, at 373-5753.

# SUMMARIES

## PRODUCTION USAGE SUMMARIES

### CDC Cyber 74

	May, 1976	May, 1975
Number of jobs run	85,029 ( 93,757)	71,187 ( 81,657)
Central processor hours	141 ( 180)	119 ( 140)
Mass storage transfers (KPR)	160,456 (206,381)	-
Magnetic tape transfers (KPR)	4,871 ( 6,754)	-
Pages printed	898,696 (990,458)	790,804 (933,653)
Cards punched	411,571 (448,967)	421,324 (462,981)
Microfilm frames produced	46,795 (259,153)	43,709 (228,148)
Tapes mounted	7,679	7,415
Average file storage	643.2 million characters	454.5 million characters
Mean time between failures	19.8 hours	-
Percentage available during scheduled hours	98.6 percent	-

### CDC 6400

Number of jobs run	137,987	276,878
Central processor hours	103	104
Terminal hours	19,257	33,588
Number of terminal sessions	40,246	67,901
Maximum number of simultaneous users	102	196
Average file storage	197.7 million characters	194.9 million characters
Mean time between failures	21.8 hours	21.8 hours
Percentage available during scheduled hours	99.1 percent	98.5 percent

(total including staff development, accounting, and maintenance runs)

### CYBER 74 DOWNTIME SUMMARY -- June 1 - June 27, 1976

	Monday-Friday 0800 - 1600	other	total
Total possible scheduled uptime hours	180	265	445
Total downtime hours (see schedule A)	3.7	9.6	13.3
Total uptime hours	176.3	255.4	431.7
Uptime percentage	97.9 percent	96.4 percent	97.0 percent
Average downtime per occurrence	7.9 minutes	41.4 minutes	19.0 minutes
Mean time between failures	6.3 hours	18.2 hours	10.3 hours
Subsystem failures			
SUPIO	8	4	12
TELEX	0	1	1
EXPORT	14	6	20

#### Schedule A: downtime hours

	Number of occurrences	total hours down	average minutes downtime
1) Preventive maintenance over-runs	0	0	0
2) Software related problems	12	1.7	8.7
3) Hardware related problems	6	8.4	84.5
4) Indeterminate software/hardware problems	24	3.1	7.7
5) External problems (power failure)	0	0	0

On the 4th of June we were down for 8.1 hours due to a hardware failure. Other than that one failure, there were no major problems this month.

R. Dykstra

### SUBMISSION SITE USAGE SUMMARY (TELEX EXCLUDED): JUNE, 1976

submitted from	total jobs	% of jobs	pages printed	% of pages	cards read	% of cards
Lauderdale	4,390	7.0	250,473	22.9	2,418,344	18.6
ExpEng I/O	10,294	16.5	260,165	23.8	3,463,927	26.6
West Bank	5,628	9.0	139,754	12.8	1,229,526	9.4
6400	842	1.3	-	-	-	-
SUPIO	41,328	66.1	444,146	40.6	5,907,151	45.4
TOTALS	62,482		1,094,538		13,018,948	

# DOCUMENTATION

## WRITEUP records

13OCT75 ABCLIST Extended CATLIST utility (1 pg)  
03MAR75 AMEND Unit record manager (4 pg)  
12NOV75 BLANK Initial label writing (2 pg)  
05JAN76 BLOCKER Write blocked stranger tape (3 pg)  
20FEB76 CALLPFM FTN4 PF routines (7 pg)  
26FEB76 CALLPRG Library search extension (7 pg)  
19JAN75 CATALOG Catalog a file (2 pg)  
01MAR75 CATLIST Catalog a permanent file (3 pg)  
10MAR76 CATLSYS Extended CATLIST utility (1 pg)  
23JUN75 CCINDEX Index to documentation (6 pg)  
13OCT75 CHANGER Extended CHANGE utility (1 pg)  
16OCT75 CIMSPL1 CIMS P1/1 User Guide (34 pg)  
07MAY76 CKSPSS SPSS utility (5 pg)  
26MAY76 CONTROL Control card descriptions (var)  
22JUN76 CONSULT Consulting sites and hours (1 pg)  
11DEC75 COPYU Copy unit record (6 pg)  
18JAN75 COST Calculate job cost (1 pg)  
16JUN75 DISPOSE DISPOSE control card (9 pg)  
13MAR75 DMPCOR CM dump routine (1 pg)  
01MAR75 DMPECS ECS dump routine (1 pg)  
01APR76 DOCLIST Documentation list (4 pg)  
01MAR75 DRESS Prepare MODIFY/UPDATE source (13)  
27SEP75 DUMPPF PF dump/load utility (7 pg)  
11FEB75 ERRMESS Dayfile error messages (15 pg)  
26FEB76 EXAMINE Determine mag tape contents (5 pg)  
30MAR76 FILES Local file manipulator (4 pg)  
13OCT75 GETSAVE PF transfer utility (1 pg)  
26MAR76 HASH User index/job name scrambler  
30MAR74 ISIS Interactive statistics (45 pg)  
05MAY76 KCL Control card processor (9 pg)  
18JAN75 LIBEDIT Library editing program (3 pg)  
10MAR76 LISP LISP information (1 pg)  
18JAN75 MODIFY Source library editing (11 pg)  
14APR76 MODUP MODIFY/UPDATE conversion (1 pg)  
03MAR75 PACKMS Pack random file (1 pg)  
22SEP75 PASCAL PASCAL information (26 pg)  
28SEP75 PFGUIDE PF User's Guide (60 pg)  
21MAY76 PFILES PF request processor (7 pg)  
01MAR75 PREVIEW Preview display dump (1 pg)  
PTRFORT FORTRAN bugs  
PTRKR Operating system bugs  
PTRMISC Miscellaneous software bugs  
PTRSTAT Statistics packages bugs  
PTRSZK System 2000 bugs  
13OCT75 PURGER Extended PURGE utility (1 pg)  
19NOV75 REBLOCK Tape converter (6 pg)  
18DEC75 REFORM Sequence/desequence t/s source  
RJDSTAT Daily SUP10 statistics  
26JUN75 RJECOM RJE commands (4 pg)  
RJEMTOT Monthly SUP10 statistics  
RJMSTAT Cumulative daily SUP10 statistics  
14APR76 SEND Send files to 6400 (2 pg)  
11DEC75 SITEBIN Output shelf locations (2 pg)  
15APR75 SNOINFO CAL 6000 SNOBOL (24 pg)  
09APR75 SNPSHOT Write/restore registers (5 pg)  
09SEP75 STRATEN Straighten COMPASS source (4 pg)  
01APR75 SYSLIB SYSLIB documentation (3 pg)  
SYSMODS Latest system changes  
05JAN76 TAPEUSE Tape User's Guide (70 pg)  
30MAR76 TDUMP File dump (1 pg)  
30JUN76 TEKLIB Tektronix library description  
03JUL75 TESTCR Card reader test (1 pg)  
16JUN75 TESTLP Line printer test (2 pg)  
01MAR75 TIDY Tidy FORTRAN source (7 pg)  
TSTATS Tape mounting statistics; daily  
23JUN74 TYPESET Text reform program (12 pg)  
12MAR75 UNPAGE Carriage control char. editor (6 pg)  
10JUN76 XEDIT Extended text editor (14 pg)  
26DEC75 1004INS U1004 operating instructions (3 pg)  
03JUL75 1004SET U1004 character set conversion (4 pg)

## Reference manuals

CDC ALGOL Version 3 (60322900D)  
CDC APL\*CYBER (19980400D)  
APLUM (1975)  
CDC BASIC 2.1 (19980300C)  
BMD Computer Programs (1973)  
BMDP Computer Programs (1975)  
CDC COBOL Version 4 (60384100F)  
CDC COMPASS Version 3 (60360900E)  
CDC FTN Version 4 (60305601J)  
CDC FTN DEBUG User's Guide (60329400B)  
IMSL Library 3, Edition 5 (1975)  
CDC KRONOS 2.1, Volume 1 (60407000D)  
CDC KRONOS 2.1, Volume 2 (60448200D)  
MNF Reference Manual (1974)  
CDC MODIFY (60281700F)  
OMNITAB II Programmer's Reference  
CDC PERT/TIME (60133600E)  
CDC RECORD MANAGER User's Guide (60359600C)  
CDC SIMSCRIPT (60358500E)  
CDC SIMULA Version 1 (60234800E)  
CDC SORT/MERGE Version 4 (60343900H)  
SPSS Edition 3 (1975)  
SPSS Version 6.0 (1975)  
System 2000 Reference Manual (1975)  
CDC Text Editor (EDIT) (60408200C)  
CDC Cybernet XEDIT User Information Manual  
CDC Timesharing User's Reference Manual (60407600D)  
UMST Reference Manual (1971)  
CDC UPDATE (60342500F)  
CDC 8-bit Subroutines Reference Manual (60359400C)

## Free publications

Beginner's Guide to Timesharing  
Student Guide to Batch Computing  
Instructor's Guide to Batch Computing  
Index to Cyber 74 User Software  
Univac 1004 Operating Instructions  
System 2000 User Aids (1,2,3,4)  
S2KIND - a System 2000 Procedure File  
MINN subprogram writeups (see "Index" for list)  
ISIS User's Manual  
IMP - An OMNITAB Mimic  
RPG at the University of Minnesota  
SLIP at the University of Minnesota  
SNOBOL4 at the University of Minnesota

## Instructional video-tapes

How to Operate a Univac 1004 RJE Terminal (FEB76)  
The How To's of Key punching (JAN76)

## Sources

REFERENCE MANUALS: Copies for reference are available at the RJE sites and user rooms; see WRITEUP, DOCLIST for sources and prices if you want personal copies.

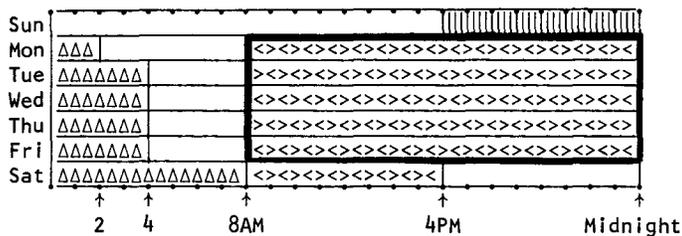
FREE PUBLICATIONS: Get copies in Room 140 ExpEng or call the UCC Reference Room (373-7744) and ask for copies.

VIDEO-TAPES: These may be viewed in the Learning Resource Centers in Walter Library and Coffey Hall.

WRITEUP documentation: Get copies by using a deck like this:

```
Jobcard with T1 and CM10000
ACCOUNT card
WRITEUP,name.
(6-7-8-9 card)
or enter the command
X,WRITEUP,name
from a MIRJE terminal.
```

## CYBER 74 OPERATING HOURS\*



▲▲▲▲▲▲ Lauderdale only  
 ||||| Lauderdale, ExpEng  
 <><><> Lauderdale, ExpEng, West Bank  
 [ ] standard rates apply

\*These are machine hours. UCC operators stop accepting jobs about 15 minutes before operations end to enable the queues to clear on time.

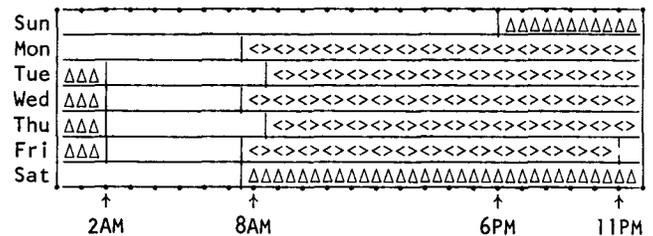
SUPIO (RJE medium speed terminals) comes up 1/2 hour after operation begins and closes down 1/2 hour before operation ends.

TELEX (MIRJE terminals): the operator will issue a 10 minute warning before TELEX is dropped.

## UoFM-TWIN CITIES RJE SITES

site	ID	supervisor(s)
<i>East Bank</i>		
ElectE 38	4V	J. Guentzel 373-5404 M. Cook 373-3985
Elth N640	4W	J. DeWitt 376-7377 D. Anderson 373-5456
ExpEng 130	4B	Shift supervisor 373-4596
KoltH S191	4Z	G. Jensen 373-5754
MasonH M39	4C	L. Croatt 373-7714
MinMet 321	41	C. Swanson 373-5475 R. Brown 373-2308
Physics 69	44	R. Scarlett 373-0243 D. Olson 376-7175 R. Hendrickson 373-3361
SpaSci 134	43	R. Weinberg 373-7881
TerrH W106	41	R. Baker 373-3567
<i>West Bank</i>		
SocSci 167	4X	J. Shea 373-3608
SocSci 1009	4K	R. Anderson 373-0168
<i>St. Paul</i>		
BioSci 257	47	R. Comstock 373-0979
ClaOff 125G	48	C. Bingham 373-0988 S. Weisberg 373-1068 Consultant 373-0829 Consultant 376-3846
CofH 415	21	D. Nelson 376-7003 T. Ehlen 376-7003
NorH 24	40	J. Colten 373-0990
<i>Lauderdale</i>		
User's Room	49	Shift Coordinator 373-4940

## CDC 6400 OPERATING HOURS



<><><> up, attended  
 ▲▲▲▲▲▲ up, not attended

## UoFM-TWIN CITIES INSTRUCTIONAL TIMESHARING LABS

site	supervisor
<i>East Bank</i>	
CentH Computer Room	R. Richgarn 373-2289
Elth 121 & 124	D. Anderson 373-5456
ExpEng 140	T. Hodge 373-4599
HealthSciA 1-752	L. Ellis 373-0331
LindH 136A	G. Schneider 373-7582
MechE 308	A. Erdman 373-2977
TerrH Computer Room	R. Baker 373-3567
Vincent H 4	W. Stenberg 376-7529
WaLib 204	R. Estelle 373-5195
<i>West Bank</i>	
MdbhH Computer Room	P. Johnston 376-6561
SocSci 167	J. Shea 373-3608
SocSci 1009	R. Anderson 373-0168
<i>St. Paul</i>	
ClaOff 125	S. Weisberg 373-1068

## TELEPHONE NUMBERS

373-4548	Account Clerk
373-4360	Administrative Offices
376-3963	Educational Services (R. Franta)
373-4596	Experimental Eng I/O station
376-7067	Field Engineering
373-2521	Keypunch Supervisor
373-4940	Lauderdale Shift Coordinator
373-4995	Microfilm Operator
373-5907	Program Librarian (M. Frisch)
373-4994	Recorded message: ExpEng I/O jobs
373-1798	Recorded messages: MERITSS status
373-7744	Reference Room
376-3963	RJE Services (R. Franta)
373-5754	RJE Services (G. Jensen)
373-9751	Secretary - Graphics Lab
373-4912	Secretary - Lauderdale
373-4995	Tape Librarian
376-5592	Telephone consulting: Cyber 74
373-5753	Telephone consulting: MERITSS
373-4599	User Services (T. Hodge)
373-4921	User's Room - Lauderdale
373-3608	West Bank Computer Center

## CONSULTING SITES

General consulting:	Statistics packages:
User's Room (Lauderdale)	ExpEng 140 (East Bank)
BlegH 25 (West Bank)	SocSci 167 (West Bank)
ExpEng 140 (East Bank)	ClaOff 125 (St. Paul)

(Check WRITEUP,CONSULT for hours)

## KEYPUNCH SITES

East Bank	West Bank	St. Paul	Lauderdale
ElectE 38(1)	BlegH 86(11)	ClaOff 125(2)	User's Rm (5)*†
Elth N640(2)	BlegH 90(1)	CofH 415(1)	
ExpEng 130(2)	SocSci 167(2)*NorH 24(2)		
ExpEng 131(1)	SocSci 1009(1)		
ExpEng 208(14)*†			
KoltH S191(1)			
MinMet 321(2)			
Physics 69(1)			
TerrH W106(1)			

\*includes interpreting card punch.  
†includes 029 keypunch.

? The 1004 in 130 ExpEng should be moved to 140 ExpEng. It's too hot and needs to be in an air-conditioned room -- it hasn't worked properly all year! (28 JUNE 1976)

A The air conditioner in 140 is not sufficient to handle the heat generated by the 1004 (8600 BTU/hour), nor could UCC handle the heat generated by the user's of this room were they to be confronted with this noisy machine!

We want to air-condition room 130; in fact, we have tried to do so since before the 1004 was installed. Unfortunately, the power required for window air conditioners would put too heavy a burden on the already heavily taxed power supply to the building.

We have been involved in the evaluation of the costs for various alternatives available to us. As of this date, no final wiring specifications have been accepted but we can state that something will be done to cool the room.

If it is true, as this user stated, that the 1004 in room 130 ExpEng never works, would the people who ran the 7,034 jobs through this terminal during May please examine their output very carefully for errors?

(R. Franta)

GROUND RULES FOR ???:

- (1) We respond to all signed cards; suggestions of general interest are printed in the newsletter.
- (2) All suggestions appearing in the newsletter are dated.
- (3) Responses are signed by UCC staff members.
- (4) Unsigned or obscene cards are ignored.

DEADLINE FOR THE AUGUST ISSUE OF THE UCC NEWSLETTER WILL BE JULY 23RD.

RETURN TO:

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

The following short courses will be offered in July and August (see the June UCC Newsletter for descriptions).

COBOL: July 26,28,30, August 2,4,6: 2:15-4:00 PM, 114 Mech  
SYSTEM 2000 PLI: August 9,11,13: 2:15-4:00 PM, 203 LindH  
ADVANCED FORTRAN: July 27,29, Aug 3,5,10,12: 2:15-4:00 PM,  
114 MechE  
KRONOS CONTROL STATEMENTS: Aug 17,19,24,26,31, Sept 2:  
2:15-4:00 PM, 203 LindH

ADDITIONS:

A short course on ALMAP will be offered this summer but has not yet been scheduled; the schedule (when determined) will be printed in SYSNOTES and in the Official Daily Bulletin.

Additional seminars on COBOL 5 will be offered as required; again, SYSNOTES will carry the message on scheduling.

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