

U NIVERSITY

C OMPUTER

C ENTER

MTC
July 1977

UNIVERSITY COMPUTER CENTER, UNIVERSITY OF MINNESOTA-TWIN CITIES, MINNEAPOLIS, MINNESOTA

CONTENTS

PROFESSIONAL SERVICES DEPARTMENT <i>Special assistance available</i>	P. 66
NEW PLOTTER RATES <i>As previously announced</i>	P. 66
NEW INFORMATION NUMBER <i>HOURS: 373-1798</i>	P. 66
SYSTEM 2000 CONSULTING HOURS <i>Summer hours</i>	P. 66
METRIC CONVERSION PROGRAM <i>Minnesota Metric Center</i>	P. 66
THE SUGGESTION BOX <i>More 1004 problems</i>	P. 66
PRODUCTION USAGE SUMMARIES	P. 67
SUMMER SHORT COURSES <i>Also a new one; see bulletins</i>	P. 68

BULLETINS

=====

NEW SHORT COURSE

KRONOS CONTROL CARDS:
August 8-26 (MWF)
2:15 - 4:00 PM
B36 Classroom Office Building
St. Paul Campus

=====

UCC newsletter

VOLUME 12 NUMBER 7 JULY, 1977

Director: Peter C. Patton
Editor : A. Koepke

Comments about the content of this newsletter, or suggestions for changes may be directed to the editor, 235a Experimental Engineering, 373-7744.

The University of Minnesota adheres to the principle that all persons shall have equal opportunity and access to facilities in any phase of University activity without regard to race, creed, color, sex, age, or national origin.

Project aid

Professional Services Department

Do you need programming, systems analysis, or training done? UCC has computer specialists available for these tasks. In the last six months, the Professional Services Department (PSD) for UCC has done projects for University researchers, University administrators, and Minnesota state government users. The following list exemplifies typical projects:

Conversion of programs from IBM FORTRAN to CDC FORTRAN.

Installation, for a state government user, of a software system purchased from another software developer.

Investigation and evaluation of the adaptability of System 2000 to a researcher's data and existing program system.

Development, at an administrator's request, of an ON=LINE information system used in managing a University department.

The duration of projects ranges from a couple of hours to several months. The cost of an individual project depends on its scope and complexity; and therefore, is negotiated with the client.

If you have a project in mind, feel free to call me.

J. Johnson, 376=1764

plotting

New Plotter Rates

As of July 1st, our new charges for plotting on the electrostatic plotter are 25 cents for setup and 20 cents per foot of paper. Our previous charges were 75 cents for setup and 10 cents per foot; see the March, 1977 Newsletter, page 24.

Note that the setup charge of 25 cents is for each file named PLOTS released by the job and not for each plot on the file. (The PLOTS file is created by the postprocessor program PLOT31.) Thus, you may have many plots in this file but there will be only one setup charge made for the job.

M. Frisch, 376=1637

help!!

The HOURS line

UCC has just started a new service which we call the HOURS line. It is a recorded message which will always give the operating hours for both the 6400 and CYBER 74 systems. Holiday hours will be available shortly before each holiday. The number to call is 373=1793.

R. Franta, 376=3963

System 2000 Consulting Hours

Telephone consulting hours for 1st and 2nd summer session are:

Monday-Friday: 10:00=11:00AM
1:00= 2:00PM

To arrange other consulting hours of office appointments, please call me.

J. Cosgrove, 376=1761

Metric Conversion Program

The Minnesota Metric Center announces the availability of a computer program for conversion of standard (U.S. customary) measurements to metric equivalents. The program is written in ANSI COBOL and is designed to convert measurements contained in codes, statutes, standards, and other textual material. The program is not intended for conversion of engineering drawings. Output data is in the form of unrounded 15 digit numbers. For further information, contact the Minnesota Metric Center, University of Minnesota, Minneapolis, Minnesota 55455.

Q & A

THE LAST TIME I TALKED TO MR. FRANTA, I GOT THE FEELING THAT ONE TERMINAL ON ST. PAUL CAMPUS WOULD ACCEPT LONG JOBS AND IT WAS DECIDED TO USE THE TERMINAL IN THE BIO SCIENCE BUILDING FOR THAT PURPOSE. HOWEVER, THE PROGRAMS (OUTPUT) ARE STILL DIRECTED TO LAUDERDALE FROM THAT TERMINAL. IF A PERSON IS TRYING TO DEBUG HIS PROGRAM, HE DOES NOT HAVE ANY CONTROL ON HIS OUTPUT AND THUS SPENDS LOTS OF MONEY ON PAPER WHICH HAS NOTHING BUT NONSENSE. I WOULD LIKE TO SEE THE ST. PAUL CAMPUS REPRESENTED IN DECISION MAKING ABOUT TERMINAL USE AND RETURN OF THE OUTPUT.

S.C.G.:5APR77

At the time of your original question, BioSci was set up to accept long output. Since that time, and after numerous complaints, the print limits were again set to standard levels and more frequent deliveries to St. Paul were started. St. Paul will not be considered separately from other sites because there are sufficient controls available in the system for the user to assure that he gets his output. All you have to do is anticipate a long output and not print it all at once. Also, we are considering making all divert limits slightly larger (see below).

R. Franta

(continued on page 70)

PRODUCTION USAGE SUMMARIES

	<u>May, 1977</u>	<u>May, 1976</u>
CDC Cyber 74		
Number of jobs run plus MIRJE sessions	98,039 (113,219)	85,029 (93,757)
Central processor hours	152 (196)	141 (180)
Mass storage transfers (KPR)	208,672 (257,471)	160,456 (206,381)
Magnetic tape transfers (KPR)	5,094 (6,762)	4,871 (6,754)
Pages printed	943,790 (1,044,753)	898,696 (990,458)
Cards punched	451,190 (473,827)	411,571 (443,967)
Microfilm frames produced	13,714 (271,546)	46,795 (259,153)
Tapes mounted	9,240	7,679
Average file storage (1547M available)	1,065.6 million char	643.2 million char
Mean time between failures	87.1 hours	19.8 hours
Percentage available during scheduled hours	99.9 percent	98.6 percent
SUPIO availability during scheduled hours	94.4 percent	-
	(totals include staff development, accounting, and maintenance runs)	
CDC 6400		
Number of jobs run	168,917	137,987
Central processor hours	117	103
Terminal hours	23,624	19,257
Number of terminal sessions	46,579	40,246
Maximum number of simultaneous users	102	102
Average file storage	262.0 million char	197.7 million char
Mean time between failures	31.0 hours	21.8 hours
Percentage available during scheduled hours	98.6 percent	99.1 percent

CYBER 74 DOWNTIME SUMMARY : June, 1977

	<u>Monday-Friday</u> <u>0800-1800</u>	<u>other</u>	<u>total</u>
Total possible scheduled uptime hours	220.	304.	524.
Total downtime hours (see Schedule A)	2.3	0.8	3.6
Total uptime hours	217.2	303.2	520.4
Uptime percentage	98.7 percent	99.7 percent	99.3 percent
Average downtime per occurrence	20.3 minutes	3.2 minutes	15.4 minutes
Mean time between failures	31.0 hours	50.5 hours	40.0 hours
Subsystem failures			
SUPIO	3	4	7
TELEX	0	1	1
EXPORT	16	1	17

Schedule A: downtime hours

	<u>Number</u>	<u>Total hours</u>	<u>Average minutes</u>
(1) Preventive maintenance over-runs	1	0.2	10.0
(2) Software related problems	5	0.6	6.6
(3) Hardware related problems	3	1.9	37.3
(4) Indeterminate software/hardware problems	5	1.0	12.0
(5) External Problems	0	0.0	0.0

SUBMISSION SITE USAGE SUMMARY: TELEX EXCLUDED : June, 1977

submitted from	total jobs	%	pages printed	%	cards read	%
Lauderdale	3,419	5.2	342,011	23.8	1,937,215	15.7
ExpEng	7,589	11.6	229,834	19.4	2,893,209	23.5
West Bank	5,415	8.3	110,285	9.3	1,383,024	11.0
6400	1,619	2.5				
SUPIO	47,159	72.3	504,898	42.5	6,116,336	49.7
TOTALS	65,201		1,137,034		12,299,784	

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
13 June	14 June	15 June	16 June Introduction to UCC	17 June
20 June Pascal Intro to S2000	21 June KRONOS Control Cards PLOT PAC	22 June Pascal Intro to S2000 PLOT PAC	23 June KRONOS Control Cards PLOT PAC	24 June Pascal Intro to S2000
27 June Pascal Intro to S2000	28 June KRONOS Control Cards System 2000 Conversion	29 June Pascal Intro to S2000	30 June KRONOS Control Cards	1 July Pascal Intro to S2000
4 July Pascal	5 July KRONOS Control Cards	6 July Pascal	7 July KRONOS Control Cards System 2000 Conversion	8 July Pascal
11 July System 2000/PLI	12 July KRONOS Control Cards	13 July System 2000/PLI	14 July KRONOS Control Cards	15 July System 2000/PLI
18 July	19 July	20 July	21 July Introduction to UCC	22 July
25 July System 2000/RW Beginning COMPASS	26 July Intro to Timesharing	27 July System 2000/RW Beginning COMPASS	28 July Intro to Timesharing	29 July System 2000/RW Beginning COMPASS
1 August Beginning COMPASS SPSS (Very beginning) COBOL	2 August SPSS (Beginning)	3 August Beginning COMPASS SPSS (Intermediate) COBOL	4 August SPSS (Intermediate)	5 August Beginning COMPASS SPSS ON/LINE COBOL
8 August COBOL	9 August Intermediate FORTRAN	10 August COBOL	11 August Intermediate FORTRAN	12 August COBOL
15 August COBOL	16 August Intermediate FORTRAN	17 August COBOL	18 August Intermediate FORTRAN	19 August COBOL
22 August	23 August Intermediate FORTRAN	24 August	25 August Intermediate FORTRAN	26 August
29 August	30 August Intermediate FORTRAN	31 August	1 September Intermediate FORTRAN	

Introduction to UCC : th, 2:15-4pm, 16 June, Mech E 221
 Pascal : mwf, 1:15-3pm, 20 June - 8 July, Lind H 54
 System 2000 Conversion: t, 2:15-4pm, 28 June, Space Sci. 113
 Intro. to System 2000 : mwf, 2:15-4pm, 20 June - 1 July, Chem E 40
 Kronos Control Cards : tth, 2:15-4pm, 21 June - 14 July, Chem E 54
 PLOT PAC : twth, 7:00-9pm, 21-23 June, Lauderdale Conf Rm
 System 2000 Conversion: th, 2:15-4pm, 7 July, Space Sci. 113
 System 2000/PLI : mwf, 2:15-4pm, 11-15 July, Lind H 4
 Introduction to UCC : th, 6:00-8pm, 21 July, Mech E 221
 System 2000/RW : mwf, 2:15-4pm, 25-29 July, Chem E 158
 Beginning COMPASS : mwf, 2:15-4pm, 25 July - 5 August, Lind H 54
 Intro. to Timesharing : tth, 2:15-4pm, 26-28 July, Chem E 40
 SPSS (very beginning) : m, 2:15-3:30pm, 1 August, Mech E 221
 SPSS (beginning) : t, 2:15-3:30pm, 2 August, Mech E 221
 SPSS (intermediate) : wth, 2:15-3:30pm, 3-4 August, Mech E 221
 SPSS ON-LINE : f, 2:15-3:30pm, 5 August, Mech E 221
 COBOL : mwf, 2:15-4pm, 1-19 August, Lind H 4
 Intermediate FORTRAN : tth, 2:15-4pm, 9 August - 1 September, Chem E 54

CYBER 74 OPERATING HOURS

Sun																					
Mon	***																				
Tue	*****																				
Wed	*****																				
Thu	*****																				
Fri	*****																				
Sat	*****																				

0345 0800 1545 2400

***** Lauderdale only
 ||||| Lauderdale, ExpEng
 <><><> Lauderdale, ExpEng, West Bank

SUPIO (RJE 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.

TWIN CITIES CAMPUS REMOTE JOB ENTRY SITES

Site	ID	supervisor	phone	keypunches*
East Bank				
ElectE 38	4V	J. Guentzel M. Cook	373-5404 373-3895	2
Elth N640	4W	D. Anderson	373-5456	2
ExpEng 130	4B	Shift Supervisor	373-4596	7
FrontH	4E	M. Kilbury B. Adams	373-2740 373-6885	1
Kolth S191	4Z	N. Mullaney	373-2348	4
HS-A 1-752	4C	L. Ellis	373-0331	1
MinMet 321	41	R. Brown	373-2308	3
Physics 69	44	R. Scarlett D. Olson	373-0243 373-5320	3
SpaSci 134	43	R. Weinberg	373-7881	1
TerrH W106	4I	R. Baker	373-3567	1
Zoology 314	4J	E. Cushing	373-2232	1
West Bank				
SocSci 167	4X	R. Dykstra B. Shattuck	373-3608 373-3608	2
SocSci 1009	4K	R. Anderson	373-0177	1
St. Paul				
BioSci 257A	47	R. Comstock P. Kaufman	373-0979 373-0927	1
ClaOff 125G	48	C. Bingham S. Weisberg Consultant Consultant	373-0988 373-1068 373-0829 376-3846	3
CofH 415	21	D. Nelson T. Ehlen	376-7003 376-7003	1
NorH 24	40	J. Colten	373-0990	2
Lauderdale				
User's Room 49	Secretary		373-4912	5

*additional keypunches in 131 ExpEng(1), 86 BlegH(11) and 90 BlegH(1).

CDC 6400 OPERATING HOURS

Sun																						*****	
Mon																							
Tue																							
Wed																							
Thu																							
Fri																							*****
Sat																							*****

0130 0730 1545 1800 2300

***** up, not attended
 <><> up, attended

TWIN CITIES CAMPUS INSTRUCTIONAL COMPUTER LABORATORIES

Site	Supervisor	phone	equipment
East Bank			
CentH	R. Rickgarn	373-2239	TTY(1)
Elth 121,125	D. Anderson	373-5456	TTY(6) CRT(5) Printer(1)
Ex 140	T. Hodge	373-4599	CRT(3)
HS-A 1-752	L. Ellis	373-0331	TTY(6) CRT(2)
LindH 136A	M. Schneider	373-7582	CRT(6) Decwriter(2) Printer(1)
MechE 308	A. Erdman	373-2977	TTY(10) CRT(2)
TerrH	R. Baker	373-3567	TTY(1)
VincentH 4	W. Stenberg	376-7529	TTY(11) CRT(2)
waLib 204*	R. Estelle	373-5195	Decwriter(10) CRT(4)
West Bank			
MdbH	W. Bakkenist	373-9818	TTY(1)
SocSci 167	R. Dykstra	373-3608	TTY(8) CRT(4) Decwriter(1)
SocSci 1009	R. Dykstra	373-3608	TTY(3) CRT(2)
St. Paul			
Claoff 125	S. Weisberg	373-1068	TTY(9) CRT(3) Decwriter(2) DI/AN(1)

*for CAI use only

DIVERTING OUTPUT FROM PHYSICS (SITE 44) TO EXP ENG IS CAUSING USERS CONSIDERABLE INCONVIENCE. USEFUL PROGRAMS PRODUCING LESS THAN 200 PRU ARE QUITE RARE. A 200 PRU JOB IS ONLY ABOUT 15 PAGES LONG. HAVING A SHORT (200-300 PRUS) JOB DIVERT IS ESPECIALLY FRUSTRATING WHEN I AM THE ONLY 1004 USER. AS THIS IS THE CASE THROUGHOUT MOST OF THE QUARTER, THE CURRENT LIMIT APPEARS TO BE MOST INAPPROPRIATE. WHEN THE OUTPUT IS DIVERTED THE DELAY IS EXCESSIVE. DURING A RECENT TWO DAY PERIOD THE AVERAGE DELAY OF DIVERTED OUTPUT AT EXP ENG WAS 58 MINUTES COMPARED WITH 15-20 MINUTES FOR COMPARABLE JOBS SUBMITTED AT EXP ENG.

R.W.:22MAR77

IT IS EXTREMELY INCONVENIENT FOR SMALL JOBS, OF ONLY A COUPLE HUNDRED PRUS, TO BE DIVERTED TO EXP ENG. FURTHER, IT SEEMS TO TAKE AN AWFUL LOT OF TIME FOR THESE DISPOSED OUTPUTS TO APPEAR AT EXP ENG. THIS IS ESPECIALLY ANNOYING WHEN THIS OCCURS EVEN WHEN NO ONE ELSE IS USING THE 1004 AT OUR SITE.

P.D.:16MAR77

We will examine our statistics to find if an increase in divert limit is warranted. If so, it will be done, if not we will publish our findings for your examination and comment.

R. Franta

PLEASE TRY HARDER TO KEEP THE TTY'S FUNCTIONING NORMALLY AT 121 ELLIOTT HALL. 4/6 OF THE MACHINES ARE ILL. ONE HAS BEEN NOT OPERATING FOR 1 WEEK. THIS MAKES LIFE MISERABLE FOR PEOPLE WHO ENJOY USING THE COMPUTER TO THINK.

R.L.H.:01JUN77

The machines in Elliott Hall are operating correctly. We were experencing a communication problem during that time. This problem affected terminals in all the instructional timesharing labs. We will continue to try harder when problems such as this occur.

M. Skow

RETURN TO:

UNIVERSITY COMPUTER CENTER
227 EXPERIMENTAL ENGINEERING
UNIVERSITY OF MINNESOTA
208 UNION STREET SE
MINNEAPOLIS, MINNESOTA 55455

UNIVERSITY ARCHIVES
11 WALTER LIBRARY
UNIV OF MINNESOTA
EAST BANK CAMPUS