4-1991

Academic Computing Newsletter: April 1991

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In the opening of the 1985-86 fall term I announced an upgrade of the Prime system, which reflected a four-fold increase in computing capacity. After more than nine months of planning and reviews, the 1991 Spring Break week saw the latest upgrade installation completed. This system, a Prime 6450, has more than fourteen times the processing capacity of the machine that was replaced in 1985. Including the Drake Library's nearly fifty terminal connections, the system has the ability to handle over two hundred simultaneous users now and room for growth. The 6450 is Prime's most powerful uni-processor system.

A more complicated, and in the long term more expensive, consideration for campus computing is the connection of systems and user access stations. Building on our existing asynchronous network, based upon the Equinox data-switch, a ring of these systems has been strategically deployed to allow access to both the Prime and the new IBM 390/150 system. From the data switches more than four hundred simultaneous mainframe connections can be made. Provision for over one thousand direct connect user stations presently exists.
True 'network' based connections were begun with the installation of a fiber optic cable between Drake and Tuttle-North. Inter-connected via Ethernet-TCP/IP protocol, the Prime 6450, Prime 2755 and the IBM systems will be able to communicate with each other and to other SUNY campuses on the system-wide SUNYNET. All of the installed communications features have the ability to grow, evolve and adapt to the changing needs of the campus and developments in computing technology. As with computing in general, network development is a process.

The development of computing services, facilities and, their direction at Brockport will critically depend upon the involvement of the user community. I urge your participation. Good bye and good computing.

Campus Connectivity

CAMPUS CONNECTIVITY / ACCESS

SUNY Brockport
MCMXCI

Rakov
Equinox

T-1 RING

Rakov
Users

T-1 RING

North Campus
Users

South Campus
Users

Tuttle
Users

TUTTLE
(ADM)
EQUINOX

DRAKE
(ACS)
EQUINOX

PRIME
6450

PRIME
2755

DEC
MVAX

T-1 RING

T-1 RING

IBM
390/150

(BROCKVMA)

TCP/IP

SUNYNET / INTERNET

U Direct Connect  D Dialup

eaf 4/91
Prime Upgrade

During Spring Break, ACS upgraded the Prime 6350 minicomputer to a Prime 6450. This upgrade brought about a 25% increase in processor speed. The 6450 provides four times the amount of main memory, 32 vs. 128 MB. New 817 megabyte disk drives were brought in to replace the old 496 megabyte drives, increasing disk storage by 62%. To help backup all these new disk drives 2 helical scan tape drives were installed. These tape drives use 8 mm cartridges, with each cartridge holding almost 2.5 gigabytes of data (see related article, p. 4). The new machine occupies a smaller footprint than its predecessor, partly due to the smaller tape drives.

To complement the new system and disk drives, a five-page per minute laser printer will be dedicated for Postscript output on the new Prime. This means that TeX (text formatting software) users and others who can generate Postscript output will now be able to print from the Prime without downloading. Watch for further details in NEWS and in future newsletters.

According to Brian Volkmar, ACS Systems Manager, the installation went very smoothly and was finished ahead of schedule. The additional processing and disk storage capability positions the Prime for on-going campus efforts related to academic computing. Shown below is a diagram of the new system.
Tape Drive Size

You are looking at a graphical outline of the new Prime tape drive cartridges. How much information can one of these tapes hold? Over two gigabytes, that's 2,000,000,000 bytes. How much is that? One tape, the size of a standard cassette tape, will hold the entire Drake Library card catalog (with over 500,000 volumes).

BITNET, Your Gateway to the World

This article has been adapted from the Feb. 1991 issue of Benchmarks, the Univ. of North Texas Computing Center newsletter.

When you say "BITNET", you may be saying more than you realize. Technically, BITNET is the RSCS-based network administered by CREN that provides services to U.S. colleges and universities. BITNET, in the more generic sense, extends far beyond the United States, however, with cooperating networks world wide in a total of 45 countries. This extends the BITNET RSCS network with direct connections to networks in Canada, Mexico, Europe, Asia, Africa, and South America. BITNET RSCS connectivity now includes about 630 member institutions encompassing over 3300 nodes, but the connectivity does not stop there. By using BITNET, you can access a number of additional computer networks via mail gateways.

Gateways are nodes which are connected to two or more networks. They usually run special software to translate mail files from the format needed for one network to that needed for a second, and then proceed to send the mail message to the specified user of that second network. BITNET users can take advantage of a number of gateways, most of the time without needing to know anything about the gateway itself. A Domain Names table is used to define various networks and the associated gateways for sending mail. Therefore, if a "non-BITNET" network is defined in the Domain Names table, you only need to specify the destination address on the other network and the mailer program will route it to the appropriate gateway.

Probably the most actively used gateway from BITNET is the one to the Internet, the collection of commercial and research networks accessible to schools via membership in the National Science Foundation's NSFNET. There are actually a number of gateways to the Internet from BITNET, but the one which usually serves mail coming from Brockport is at Cornell. If you are a BITNET user and you want to send a message to someone on the Internet, all you need to know is their Internet address. (See XMAIL article on p. 6).

Internet addresses as well as those for many other networks are a bit different than BITNET addresses. On BITNET, we are used to user-id and node specifications which do not exceed eight characters and are combined using the format user-id@node. Internet addresses also use this format, but the user-id portion may exceed eight characters and the node specification is a hierarchical designation that almost always exceeds eight characters.
At the top of this hierarchy are six primary domains:

- **COM** commercial organizations
- **EDU** educational organizations
- **GOV** civilian government organizations
- **MIL** Department of Defense
- **NET** administrative organizations for networks
- **ORG** other organizations

The second level of the address specification usually indicates the institution, the next might be a department, and the lowest level of the address specification might be an individual computer. For Internet addresses, these domains are connected by periods (.) from lowest first, to highest last. U. of N. Texas, for example, falls into the EDU domain and the Internet address of their system is VAXB.ACS.UNT.EDU.

All six of the above top-level domains are defined in the BITNET Domain Names table. If an address to one of those domains is specified, the mail will automatically be routed to the closest gateway to the Internet. Some other network domains known to BITNET include:

- **HEPNET** High Energy Physics Network
- **HK** Hong Kong Academic and Research Network
- **JP** Japanese National Network
- **MFENET** Magnetic Fusion Energy Network
- **UK** United Kingdom University/Research Network (Janet)
- **UUCP** International network based on the Unix-to-Unix Copy Program
- **YUNAC** Yugoslav Network for the Academic Community

In addition to the above are the Internet domains or national networks for many countries, usually designated using each country’s two-letter ISO code.

If you know one of these “gatewayed” addresses, the next step is to specify that address within the mail program that you are using.

An additional benefit of gateways on BITNET is that they provide access to many commercial networks that have gateways to the Internet. These include some major electronic mail networks and commercial information services. The following lists several of these along with the format for specifying the address.

- **AT&T Mail** account-name@attmail.com
- **BIX** user@dcibix.das.net
- **CompuServe** 7xxxx.yyy@compuserve.com
- **MCI Mail**
  - account-name@mciemail.com
  - mci-id@mciemail.com 

Specifying addresses for networks which are not directly attached to BITNET by a gateway can get a bit complex. Usually, however, once a working address format is found, sending the mail is quite easy. In this manner, BITNET can not only allow you to communicate with other universities, but with an expanding world of diverse computer networks as well.

Footnotes:

(1) ‘Because It’s Time’ Network.
(2) Remote Spooling Communications Subsystem.
(3) Corporation for Research and Educational Networking.
(4) There was a time when the word connectivity was relatively obscure, but with the advent of computer networking it’s become an obligatory usage when writing about computing. This can be handy to remember when talking to computer sales people: just say “well, what about connectivity?” and they’ll have to be impressed with your computing knowledge.
(5) International Standards Organization.
(6) The Internet <-> MCI Mail Gateway is an experimental mail system being developed by the Corporation for National Research (NRI), a non-profit organization. Currently, there is no charge for sending mail from the Internet to MCI Mail.

Received from the CCNEWS Articles database, the Electronic Forum for Campus Computing Newsletter Editors, a BITNET-based service of EDUCOM.
What a Week!

Six days without the Prime, is like a week without sunshine. On February 13, the air-conditioner housed in the machine room at ACS lost a compressor, forcing a shutdown of the Prime, which requires a constant temperature and monitored environment to operate. The unit was fixed within three days, however, the Prime, which had been shut down for the extended outage refused to come back up in a consistent manner, causing ACS users to lose another three work days.

The good news is that Library patrons using DYNIX terminals in Drake were relatively unaffected due to installation of the Prime 2755 (mini Prime) last spring. The 2755 was installed as a backup system for just such emergencies and certainly earned its keep during this period. This unanticipated ‘disaster preparedness’ drill gave ACS the opportunity to review its operating procedures during trouble situations.

ACS is grateful that most users were extremely tolerant and understanding. As a goodwill gesture, ACS extended its hours till midnight during the week following this mishap to allow students the opportunity to make up for lost worktime. We regret any inconvenience caused by this situation.

The ice storm also took its toll on ACS operations. Like the rest of the campus, the Prime was down the first 2 days after the storm. We were back in operation by Tuesday night, although the Prime did not escape totally unscathed. A CPU hardware problem hung PRIM IX and C language programs, but has since been corrected.

XMAIL - It's Mail...Only Better

ACS is now beta-testing XMAIL, a program that allows users to send BITNET and INTERBIT mail from Prime’s local e-mail system. This long-awaited utility provides a unified, coherent interface for sending local and off-campus e-mail. This is a real boon for casual users whose primary need is ease-of-use in sending electronic messages. XMAIL is the work of E. Seielstad (CSC senior) who has produced other noteworthy utilities such as PCPRINT (to print Prime files on a local printer) and GETBITMAIL (to receive Bitnet files). An example of XMAIL follows.

To send the file LIGHT to DIOGENES@COLLESIUM.EDU (an Interbit address), from the Primos OK prompt one would type:

XMAIL DIOGENES@COLLESIUM.EDU LIGHT

You will then be prompted for subject. After entering a short subject line and pressing return, your mail will be sent through Interbit.

We are interested to hear about new features you would like to see in the electronic mail system. Please feel free to send us your ideas. Better yet, try using XMAIL as shown above and send them to STAFF.

PC Articles

C29 Cooper Lab Opening

ACS is proud to announce the relocation of the Cooper Computer Lab to C29 Cooper. Campus painters, carpenters and electricians have done an outstanding job renovating the new space as a major public access drop-in lab for Brockport students. As demand for computing facilities as grown, public lab space has been at a premium, particularly since the addition of the two dedicated PC classrooms in Cooper last fall. ACS has long since outgrown the limited B10 area shared with the Center for Academic Improvement.

The new state of the art lab houses a variety of Zenith PC’s, software, and printers. The lab was put to immediate use after spring break. All faculty, staff and students are invited to stop by, visit and make use of this latest public access facility.

PC-Write/Word Perfect Conversion

ACS has received a utility from Quicksoft (makers of PC-Write and PC-Lite) that converts PC-Write/Lite papers to and from Word Perfect. The notable feature of this filter is that all print and formatting codes are kept intact, i.e., you do not have to ‘redo’ your text.

This utility is easy to use and is available from the User Services Coordinator for evaluation by bringing a blank disk to ACS (Drake) M-F from 8 am-5 pm.
Five Easy Packages

Ten minutes is sometimes all it takes for a user to know if a particular software package will suit their needs. With this in mind, five ten-minute presentations of a variety of software will be shown during a one-hour demonstration on Weds., April 17 and Thurs., April 18 in the Cooper C29 ACS lab. Fred Halley (Sociology faculty) will give a quick tour of:

1. CATI (Computer Aided Telephone Interviewing software)
2. Statistical Advisor (expert system software to guide choice of statistical analyses)
3. Ethnograph (qualitative textual analysis)
4. Grammatik (grammar checker)
5. SPSS/PC+ (statistics program)

It is hoped these ten minute quick demos will provide an indication of interest for more in-depth workshops on one or more of the above topics planned for May.

New ACS Users

Ximing Guo, new Biology faculty member, has quickly become a familiar face at ACS. Dr. Guo, originally from China, came to Brockport from Seattle where he completed his doctoral work related to fish genetics. He uses BITNET on the Prime to communicate with colleagues in Seattle, California, and elsewhere.

Dr. Guo brought a shareware Chinese word processor with him for IBM compatible PC's called BYX(tm) which allows Chinese characters to be printed on dot matrix printers. A commercial version for HP Laser Jets is also available for $69. BYX has the added advantage of using EMACS (the full-screen Prime editor) commands, making it easy to learn and use. Dr. Guo and Dr. John Killigrew (History faculty) have been trading word processing tips at ACS.

As a hobby, Dr. Guo uses BYX to print poetry. He has generously consented to let us print one of his poems, which is shown below in both Chinese and English:

末代皇后
你擁有這瓣美麗嗎?
或只在一線垂露的邊緣
夢蝶蝶細細來去
你，可是那晚夏夜間的蓮?
強負一朝敗落的季節
秋天的證據已背著你寄出
你還能寫些什麼
除了簽你無奈的名子——
皇后!

The Last Empress
Do you own this petal of beauty?
Or just sitting on the edge like a dew
Dreaming the cold butterflies come and go
Could you be, the late summer lily?
Taking a lakeful of decaying seasons
The testimony of autumn has already sent
What else can you confess
Beside signing your helpless name --
Empress!
A Fond Farewell

ACS would like to publicly acknowledge two retiring SUNY Brockport employees who have provided a wide range of service to the campus for many years.

If you've called AV/Tech Services regarding a crashed hard drive or non-functioning keyboard, chances are your call was answered by Corinna Haskins, the AV/Tech Services secretary who retired at the end of March after 23 years of service. Jackie Thomas will try to fill Corinna's shoes in A/V and continue providing price information for PCs and Macs.

Dr. Mel Smagorinsky, Asst. to the VP for Academic Affairs, has also found the state's early retirement initiative too good to pass up. Mel has been a real friend to the College, contributing 33 years of service to SUNY Brockport, and has seen many changes in the provision of educational technology service to the school. Academic Computing Services grew substantially under his leadership as Director of the Educational Communications Center from 1983-1987. We wish them both luck in their endeavors.

ACIS Scholar Visits Brockport

Dr. Philip Cartwright, an IBM ACIS scholar, made a quick stop at SUNY Brockport on March 25, between visits to SUNY Buffalo and Syracuse University. Dr. Cartwright, head of the Microcomputing Center at the U. of California-Davis, met informally with Brockport faculty from the Education and Human Development Department to discuss use of information technology to train teachers and special education teachers.

Dr. Cartwright's visit was especially well-timed since his textbook and interactive media system, Educating Special Learners, will be used this summer in a course taught by John O'Kane and M. Beers, from the Education and Human Development faculty. The textbook is accompanied by an extensive software package that runs on the IBM classroom LAN housed in Cooper. SUNY Brockport extends special thanks to Paul Kingston from IBM for making Dr. Cartwright's visit possible.

Scholar's Day

ACS was represented at Scholar's Day, April 3 by at least two presentations. Jeremy Shafer (Cooper Lab supervisor) along with Dr. Kim (Math) and Ed Bremer delved into the "Four Chamber Problem". Jeremy used PC:SOLVE, math problem-solving software, to present and illustrate the problem. (See related article below).

M. Beers (Ed. and Human Development), M. J. Orzech, and A. Parsons spoke about the first semester's use of the IBM networked lab in Cooper. This presentation was a trial run for a session to be presented at the "Technology and Teacher Education Conference" to be held April 25-27 in Greenville, N. Carolina. The paper is also being published in a special issue of the journal: Computers in the Schools.

Why I like PC:SOLVE

Jeremy Shafer

When I told people around here that I was going to use PC:SOLVE for my Scholar's Day project, I received a wide variety of reactions. Some seemed quite enthusiastic while others replied with comments as harsh as 'Oh, you mean it's good for something?' Yes! PC:SOLVE is good for a lot of things!

Originally, I had planned to use a hand-held graphic calculator for my work. But, as I began to use it, I found myself thinking that this calculator would serve my purposes much better if I could attach a monitor to it, and maybe a keyboard, ... and a disk drive, ... and a lot more RAM, and ....

What I found myself in need of was PC:SOLVE, a programmable calculator program available at ACS. For my project I needed an interpreted environment (so I could write, run, and revise my work "on the fly"), a sizable collection of matrix operations (preferably pre-written), and some easy-to-use graphics functions (again, preferably pre-written!!!) PC:SOLVE had all these and more, in addition to some nice HELP menus.

I believe that the key to using PC:SOLVE is to remember what its good for. It's an educational/mathematical tool, not a general-purpose programming language. PC:SOLVE is at its best when it is being used for 'quick-n-dirty' computations, and the beauty of the program is that very nice results can be generated from quite meager beginnings.

If you doubt my word, give PC:SOLVE a try! Get into the 'scratch pad' and try entering these 5 lines of code:

X=index(50), Y=index(50), X=sin(X), Y=cos(Y), gline(X,Y).

I think you'll like what you see.
Apple Videotapes Screening

SUNYSAT received broadcasts recently from the Apple Education series consisting of four videotapes. "Math and Data Analysis" deals with mathematical tools ranging from symbolic algebra processors to sophisticated three-dimensional visualization packages. Included are Mathematica, MAPLE, and Theorist. Another tape, "Multimedia 201: Beyond the Basics" is designed for educators and students interested in an introduction to Hypercard and its capacity to integrate software, animation, sound and video.

This videotape series will be shown during lunchtime (bring a brown bag lunch) from 12 to 1 pm Monday through Thursday, beginning May 6, in the new ACS Cooper lab (C29). All are welcome. See page 10 for schedule.

Election '88 Hypercard/Videodisk Available

Has Jesse Jackson's recent visit to Brockport renewed your interest in the man behind the 'Rainbow Coalition'? Have recent events sparked your interest in next year's national election? A hypercard/videodisk program called 'Election '88-The Run for the White House' might contain just the material you need. Installed on a Mac SE and Pioneer Videodisk player at ACS-Drake, the software allows users to compare and contrast the candidate's style and rhetoric with those of other presidential hopefuls in the '88 election. Biographies of the candidates, along with their stand on issues, campaign platforms, and debates can be accessed in any order at the touch of a button. Videoclips include Lloyd Bentsen's "You're no Jack Kennedy" quote and Ann Richards' "Poor George" speech.

The Election '88 program is notable as one of our first acquisitions in the area of multimedia. Instructors are welcome to investigate this technology at ACS or to schedule the ISL (Instructional Seminar Lab) for class use of the program by calling Mary Jo at 2368.

PC Graphics

The three or four letter extensions on PC graphics files often indicate how they were generated and can identify their format and/or compatibility with other software and programs. The following list is provided as a handy source of information regarding common graphics file extensions.

<table>
<thead>
<tr>
<th>Raster (bit mapped)</th>
<th>Graphics File Formats</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amiga</td>
<td>Computer Graphics</td>
</tr>
<tr>
<td>CALS Raster</td>
<td>AutoCAD</td>
</tr>
<tr>
<td>CCITT Group 4 (FAX Files)</td>
<td>GEM Draw</td>
</tr>
<tr>
<td>CompuServe</td>
<td>HP Plotter</td>
</tr>
<tr>
<td>Dr Halo</td>
<td>Lotus 1-2-3</td>
</tr>
<tr>
<td>GEM Paint</td>
<td>PICT, PICT2</td>
</tr>
<tr>
<td>Windows 3.0</td>
<td>WMF</td>
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<tr>
<td>HP LaserJet</td>
<td>MathCAD</td>
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<td></td>
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<tr>
<td>Vector</td>
<td>Metafile</td>
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<tr>
<td>AutoCAD</td>
<td>GEM</td>
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<tr>
<td>GEM Draw</td>
<td>HPGL</td>
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<tr>
<td>HP Plotter</td>
<td>PIC</td>
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<tr>
<td>Lotus 1-2-3</td>
<td></td>
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<tr>
<td>PICT, PICT2</td>
<td></td>
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<tr>
<td>WMF</td>
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<td>MathCAD</td>
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<td></td>
<td>PostScript</td>
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<td></td>
<td>CGM</td>
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<td></td>
<td>AI</td>
</tr>
<tr>
<td></td>
<td>EPS</td>
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</tbody>
</table>

New Software Arrivals

Single copies of recent PC software arrivals include the following updates and new packages that are available for evaluation and demonstration at ACS from the User Services Coordinator, M-F from 8 am-5 pm:

For PC Windows:
- Windows 3.0
- Excel 1.02
- Asymetrix Toolbook
- Ventura for Windows
- Quattro Pro
- Word Perfect 5.1
- Norton Utilities 5.0
- PC File 5.0
- CheckIt
- Spinrite II
- Virex
- SuperPaint 2.0

For DOS PC's:
- Turbo Assembler v2.0
- Turbo C++
- Turbo Pascal 6.0
- For Mac's:
- Pagemaker 4.0
- Virex
- SuperPaint 2.0
In Every Issue

Computing Related Events

On-campus events:
• April 17, 18
  4 pm
  Cooper C29
  Five Easy Packages: (ten minute software demos with F. Halley)
  CATI (computer aided telephone interviewing)
  Statistical Advisor (statistical guidance expert system)
  Ethnograph (qualitative textual analysis)
  Grammatik (grammar checker)
  SPSS/PC+ (statistics package)
• May 6, 7, 8, 9
  12 noon
  Cooper C29

Off Campus events:
• May 20-21
• May 22-23
• June 13-15

Frequently Asked Questions

Q. 40 to 50% of the trees in Monroe County were destroyed in the recent ice storm. How can I translate this episode into more environmentally responsible behavior?
A. Conserving paper saves trees. Make a start every time you are at ACS. Use the recycling bins for computer paper. Make a concerted effort not print out more than you need. If printing a 20 page paper, just print 1 or 2 pages if you need to check margins, alignment, etc., and use the back of scrap paper (available at ACS) instead of new paper for this purpose.
Do not use the printers as copiers; i.e., make one final copy and take to Quick Copy (basement of Lathrop) for multiple copies. Replace ACS handouts in the document racks for others to use. Make sure the top-of-forms setting on the printer is correctly placed for the next user. Take a look around you when leaving, be sure you have not scattered material and papers about. Thank you for your cooperation.

Q. I just received a new Zenith PC. I don’t have any software to use with Windows, and I miss the familiar DOS C> prompts. How can I turn off the front-end command shell and use plain vanilla DOS again?
A. Hit F3 to exit the DOSSHELL. Then type C:\\ to return to root directory of C. Use your PC as you normally do. If you wish to disable DOSSHELL, delete it from your AUTOEXEC.BAT file. From the root directory, make a backup of your AUTOEXEC.BAT file to another name. Then use your favorite word processor to edit autoexec.bat and delete the last line that says DOSSHELL. You may wish to append a ‘PROMPT $P$G’ line to the end of the file. Save the file in ASCII format and reboot.
### PC Software Holdings at ACS as of 04/10/91

#### IBM PC software:

<table>
<thead>
<tr>
<th>Operating Systems:</th>
<th>Languages:</th>
<th>Graphics:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zenith DOS v3.2, v3.3+, 4.01</td>
<td>IBM PC GKS v1.0</td>
<td>Generic CADD</td>
</tr>
<tr>
<td>Zenith OS/2 v1.0</td>
<td>GW Basic, MS Basic</td>
<td>Harvard Presentation Graphics</td>
</tr>
<tr>
<td>PC DOS v3.2</td>
<td>Turbo Assembler 2.0</td>
<td>Inset 2.1</td>
</tr>
<tr>
<td><strong>Communications:</strong></td>
<td>Turbo Pascal v4.0, v6.0</td>
<td>Microsoft Paintbrush v4.0</td>
</tr>
<tr>
<td>*Kermit 3.01</td>
<td>Turbo C v1.5, C++</td>
<td>Paintshow Plus</td>
</tr>
<tr>
<td>*Procomm 2.42</td>
<td>Microsoft C v5.0</td>
<td>Graph-in-the-Box</td>
</tr>
<tr>
<td>*IBM Access 1.02</td>
<td>MS Fortran 4.1</td>
<td>Presentation Plus</td>
</tr>
<tr>
<td><strong>Databases:</strong></td>
<td>IBM Fortran v2.0</td>
<td>Presentation Partner</td>
</tr>
<tr>
<td>Dbase III v1.1, IV v1.1</td>
<td>IBM Pascal v2.0, MS Pascal 4</td>
<td>PrintShop &amp; Companion</td>
</tr>
<tr>
<td>*Dbase III+ v1.0 Sampler</td>
<td>IBM Macro Assembler v2.0</td>
<td>Mathematics/Statistics:</td>
</tr>
<tr>
<td>*PC-File+ v2.0, PC-File:db v1.0, v5.0</td>
<td>Microsoft Assembler v5.0</td>
<td>*RURCI (Calculus)</td>
</tr>
<tr>
<td>Paradox 3.5</td>
<td>Meridian Ada 2 1</td>
<td>Point Five / PC:SOLVE</td>
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<tr>
<td><strong>Desk Top Publishers:</strong></td>
<td>*FModula2 v1.0</td>
<td>*Mathematica Demo</td>
</tr>
<tr>
<td>Ventura Publisher v1.1</td>
<td>*PD Prolog v1.91</td>
<td>SPSS/PC+ v4.0</td>
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<tr>
<td><strong>Spreadsheets:</strong></td>
<td>DRI C v1.0</td>
<td>Misc:</td>
</tr>
<tr>
<td>Lotus 1-2-3 v1a, 2.01, 2.02</td>
<td>*Xlisp v2.0</td>
<td>Dsview v1.0</td>
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<td>Borland Quattro v1.0, Pro</td>
<td>Word Processors:</td>
<td>Q &amp; A v3.0</td>
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<td>*PC-Calc+ v1.0, v2.0</td>
<td>*PC-Write v3.02</td>
<td>PC Browse</td>
</tr>
<tr>
<td>*As-Easy-As v 3.0</td>
<td>*PC-Lite 1.02</td>
<td>Grammatik 2.0</td>
</tr>
<tr>
<td><strong>Diagnostics:</strong></td>
<td>MS Works 1.05</td>
<td>PICK</td>
</tr>
<tr>
<td>PC Tools Deluxe</td>
<td>MS Word v4.0</td>
<td>The Author</td>
</tr>
<tr>
<td>Norton Utilities 5.0</td>
<td>Word Perfect v5.0, v5.1</td>
<td>Quest</td>
</tr>
<tr>
<td>CheckIt</td>
<td>WordStar Professional 3.31</td>
<td>Notebook II</td>
</tr>
<tr>
<td>Spinrite II</td>
<td>Professional Write 2.01</td>
<td>Clean, Scan</td>
</tr>
<tr>
<td>Excel 2.01</td>
<td><strong>PC Windows Software:</strong></td>
<td>Ventura for Windows 3.0</td>
</tr>
<tr>
<td><strong>Macintosh Software:</strong></td>
<td>Asymetrix Toolbook v1</td>
<td></td>
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<td></td>
<td>MacWrite</td>
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<td></td>
<td>MacWrite</td>
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</tr>
</tbody>
</table>

*indicates the software is shareware or public domain.

Most holdings are single copies of programs for individual use in evaluation and demonstration. They are available from the User Services Coordinator, M-F, 8-am-5 pm for use at ACS.

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### Fall Student Employees Wanted

It's never too early to think about working for ACS next fall. ACS is interested in recruiting students wishing to work in the public computing labs located on the ground floor of Drake and Cooper. If you'd like to try your hand at the many tasks that keep our labs running smoothly and gain valuable experience in a computing environment, stop by Cooper C29 to fill out an application. You do not need to be a Computer Science major, or have computing experience; we will train. Positions are available for receptionists/operators and user consultants.
### DIAL Access Phones

<table>
<thead>
<tr>
<th>Access Method</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>300/1200 baud</td>
<td>637-2181</td>
</tr>
<tr>
<td>300/1200 baud</td>
<td>637-2191</td>
</tr>
<tr>
<td>2400 baud</td>
<td>637-2188</td>
</tr>
<tr>
<td>Port Contender</td>
<td>395-2191</td>
</tr>
</tbody>
</table>

From on-campus phones only:

<table>
<thead>
<tr>
<th>Access Method</th>
<th>Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>300/1200 baud</td>
<td>2181</td>
</tr>
<tr>
<td>2400 baud</td>
<td>2180</td>
</tr>
</tbody>
</table>

Set communications parameters to:
- Full duplex, Parity=MARK or NONE,
- Stop bit=1.

Do not use the 2400 baud phone number if you do not have a 2400 baud modem.

Prime Status Line 395-2390

(A recorded message giving the current status/availability of the Prime)

### ACS Hours

<table>
<thead>
<tr>
<th>Location</th>
<th>Ext.</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACS-Drake Lab</td>
<td>x2479</td>
<td>Monday-Thursday: 8 am - 11 pm, Friday: 8 am - 8 pm, Saturday: 1 pm - 8 pm, Sunday: 1 pm - 11 pm</td>
</tr>
<tr>
<td>ACS-Cooper C29 Lab</td>
<td>x2247</td>
<td>Monday-Thursday: 8 am - 11 pm, Friday: 8 am - 8 pm, Saturday: 1 pm - 8 pm, Sunday: 1 pm - 11 pm</td>
</tr>
<tr>
<td>ACS-Edwards Lab</td>
<td>x2660</td>
<td>Monday-Friday: 12 pm - 5 pm, Saturday: Closed, Sunday: 12 pm - 5 pm</td>
</tr>
</tbody>
</table>

These hours subject to change, based on availability of student employees.

### ACS Staff

- **E. Arthur Fiser**, Director of ACS
  - Office: 6th Floor Admin, ext 5227
- **Mary Jo Orzech**, User Services Coordinator
  - Office: ACS AC-11, ext. 2368
- **Brian Volkmar**, Systems Manager
  - Office: ACS AC-3, ext. 2417
- **Anne Parsons**, Computing Labs Coordinator
  - Office: Cooper C29, ext. 5470
- **Barbara Thaine**, Secretary
  - Office: 6th Floor Admin, ext. 2523

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**Academic Computing Newsletter** (Vol. 6 Number 3, April 1991) is published on an irregular schedule by Academic Computing Services, State University of New York, College at Brockport. Contributions and suggestions from readers are welcome and should be addressed to: User Services Coordinator, Academic Computing Services, CAMPUS. They may also be sent to STAFF via Prime electronic MAIL.