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Academic Computing Newsletter: April 1990

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Director's Column

Remainder to be discussed, as a part of my review of the ACS support activities begun in the last issue of the ACS newsletter, are the areas of software resources and research support. It has only been within the last few years that the explosive growth of software has occurred. This has developed in parallel with the growth of personal computers.

These developments are mixed blessings: on the positive side, almost any activity that would benefit from automation has been implemented, and usually in multiple versions; on the negative side, the diversity of software produces considerable confusion in determining which is 'best' for a particular application. Since we are responsible for the delivery of mainframe services to the academic community, our first priority must be to support and provide assistance for the software that resides on this platform.

Our research support activities, as with other aspects of our operations, are geared to matching needs with facilities and assisting users in the effective use of computing resources. Where computing is to be used in a research project, all aspects of the research process: design, modeling, execution, and analysis will benefit from a review of how computing tools are to be used to achieve the objectives of the project. ACS is available to assist in this process, but, a necessary consequence of our limited human resources is that all research activities must remain under the control of the researcher. We welcome your comment and support - we are here to support your needs. We can only do this with your assistance.

IBM Grant Update

During spring break, M. Beers (Ed. and Human Development) installed a 15 station Novell network in Cooper. The PS/2 Model 70 server that is the heart of the network will house much of the education software that has been donated by IBM to improve Brockport's teacher education program. Dr. Beers attended 3 week-long sessions at IBM in Atlanta to become familiar with the hardware and software. The network will be highlighted during the "Technology Tools for the Classroom" conference being held at Brockport on May 22. (See related article, p. 2.)
Connecting the Campus B. Volkmar

Spring Break at ACS was a busy time. During this week, the first stage of an interim campus network was put into place. Equinox DS-15 units, the same type that have been controlling the Library terminals for the last two years, were placed in Tower Fine Arts, Rakov, and Administrative Data Processing in Tuttle North. These three units, plus the one in ACS are connected via a high speed data link, allowing 144 connects to be run across each 4-wire circuit. Prior to installation, only 1-8 connects could be made over each 4-wire circuit.

With this network in place, any terminal connected to it will be able to reach either the Prime, the Microvax, or the IBM (the Burroughs replacement computer). The second stage of this project will be to get all the terminals in Rakov, Allen and departmental offices hooked into this network. Eventually, the plan will be expanded to include other departmental offices not currently connected to the Burroughs.

The chief advantage of this plan will result in increased accessibility to computing resources across campus without requiring every PC to have a separate modem and phone line for connectivity to the mainframes.

Already connected to this network are the classrooms in Edwards Hall. Any classroom in Edwards may now connect to either the Prime or the Microvax at 9600 baud using one of the PC's that are located in Edwards for this purpose. Plans also call for additional classrooms to be connected to this network.

Looking ahead, the first phase of a plan to lay fiber optic cable is also underway. Due to costs, this will be an evolving project taking several years to complete. The first step, connecting Academic Computing and Administrative Computing, has almost been completed. The cable has been laid and we are waiting for the funding to connect these systems via fiber cable.

K-12 Conference Highlights

Plans are underway for the one-day conference "Technology Tools for the Classroom" designed for K-12 teachers, and interested Brockport faculty, staff and students. Contact ACS for registration forms. Cost is $15 and includes lunch and materials. Some of the featured sessions include:

—John J. Murphy, Asst. NYS Commissioner for Elementary and Secondary Education Planning, Testing and Technology Services will discuss the State Education Dept.'s long range plan for technology in Education.
—"The Jason Project: Electronic Field Trips, Live via Satellite", will be presented by Dr. R. Zimmerman, Project Director, The Jason Project, Rochester Museum and Science Center.
—"Computer Conferencing in Education", Dr. Norman Coombs, Professor of History, RIT. A blind historian, Dr. Coombs won first place in Zenith's 1989 Master's of Innovation Competition for his work on "Teaching the Sight and Hearing Impaired". This semester, Dr. Coombs is moderating an electronic listserver devoted to computer-mediated conferencing on BITNET.
—"Discover Rochester: Inquiry and Communication with the help of Computer Tools." Dr. Sharon Carver, Assistant Professor, Graduate School of Education and Human Development, U. of Rochester.
—"SIMCITY: An Environment for Geography Education", Dr. Roger Downs, Professor of Geography, The Pennsylvania State University.

Upcoming Dates

Mark your calendars for the following upcoming computing and technology related conference/seminars:

• April 18-20, Saratoga Springs, SUNY COA/TOA Computing and Telecommunications Officers Meeting. This year's conference theme is "HyperMedia: Navigation Tools for the 1990's".
• April 20, Syracuse University, Dr. Fred Hofstetter. "Classroom Innovations and Multimedia Instructional Tools".
• May 3, SUNY Brockport, Student Union, Multimedia Presentation, Marianna O'Brien, Apple Computer.
• May 6-9, University at Buffalo. CUMREC (College and University Center Users Conference).
• May 22, SUNY Brockport, Technology Tools for the Classroom, IBM Conference, (see article above).
• May 29- June 1, RIT and U. of Rochester, "MacAdemia '90: Visions for Education". Contact: 716-381-7772.
• July 19-21, Wells College, Aurora, NY. Point Five Users Conference -Share your experiences with Point Five in the classroom. Contact ACS for more information.
BITNET Listserver Reminder

If you are graduating or going away for the summer, and are subscribed to any Bitnet listservers (interest groups), PLEASE be sure to unsubscribe before leaving. ACS continues to receive mail for you even if you are gone, putting unnecessary traffic on the network. Be a responsible computer user by signing off any listservers you are subscribed to; urge other BITNET users to do the same. To signoff, send the following message to
LISTSERV@ (fill in the name of the node running the listserver you are subscribed to):
SIGNOFF (fill in the name of the list; e.g., BEE-L, COMMED, EDTECH, etc.)

General Social Survey Data

While the U.S. Census has been receiving much media attention this year, ACS reminds users that other large scale data sets can be rich, valuable sources of research information. For example, researchers might be interested in exploring the GSS, the National Opinion Research Center's General Social Survey Data Set that is available to all users on the Prime. Codebooks detailing sampling procedures, exact wording of questions and responses are available in the reference racks at both ACS and the Data Analysis Lab in FOB. Data samples can be easily extracted for use with any of the Prime statistics packages.

SPSS Graphics

We invite comments regarding use of the graphics package designed to work with SPSSX files. Our records indicate very low activity for this resource. Unless there is large user demand, we will drop the maintenance on this product. If funds are available, we will bring SAS-GRAPH to the campus as a replacement.

SAS and SPSSX Upgrades

ACS will be installing a new version of SAS, (statistical analysis system software for the Prime) this summer. During this time both the old version SAS 5.18 and the new version (6.0) will remain on the Prime. When installed, users interested in trying the new version can invoke it by typing SAS6. Some of the new features of SAS 6.0 include additional statistical procedures, data compression, and further speed and efficiency enhancements.

Similarly, beta testing for SPSSX version 3 is complete. Version 3 is now the default when SPSS or SPSSX is invoked. SPSSX version 2 will be removed from the PRIME on May 21, 1990.

PC Write Lite

PC Write Lite version 1.01 (aka "PC Lite") from Quicksoft is now available. PC Lite is a trimmer version of PC-Write, the popular word processing program used on campus. PC Lite is ideally suited to students who need a functional, easy-to-learn word processor available on a single disk. From a user's point of view, PC Lite is identical to PC Write in the "look and feel" of the program, although the more compact Lite version is faster and more efficient in operation. Both versions will continue to be supported by ACS. PC Lite manuals are available in the College Bookstore.

Boxing Text in PC Write

PC Write version 3 (and PC Lite) contain a powerful new Boxing feature that permit moving, deleting and copying columns or vertical slices of text. Any rectangular area of text can be boxed. To mark a box of text:
• Place the cursor at any corner of the text to be marked.
• Press Ctrl F7 to begin marking the box ; the status line says 'Boxing'.
• Move to the opposite diagonal corner of the box using the arrow keys.
• Press Ctrl F7 to freeze the box, or,
  press F3 to copy a box;      press F6 to move the box;
  press F4 to delete the box;  press Ctrl F9 to draw a lined box around the area.
• Press F5 to unmark a block or box.

Box moves and copies overwrite existing text. The box feature makes manipulating columns and sliding text to the left or right on the page much easier than in the past.
Frequently Asked Questions

Q. What software has ACS site licensed? What kind of licenses are these?

A. Site licenses vary from product to product. Examples of different types of site licenses maintained by ACS are:

- **PC Write** and **PC Write Lite** from Quicksoft. ACS pays an annual fee that permits faculty, staff and students to use PC Write and PC Write Lite (a more compact version of Write) on all its PC’s on campus. In addition, ACS is permitted to distribute PC Write for use at home. Of course, students who make regular use of the product are encouraged to register their copy with Quicksoft. PC Write (and Lite) manuals are sold in the Campus Bookstore.

- **SPSS/PC+ v3.01** from SPSS. This is a very different license, in which SUNY Brockport does not own but rather has leased 25 copies of SPSS/PC+ primarily for use in campus labs. Obviously, this is a much more restrictive license and requires that each copy must be accounted for at all times. ACS is not permitted to freely distribute or make copies of this software. SPSS manuals are available in the bookstore.

- **Point Five** (problem solving tool) from Pacific Crest Software. The Point Five site license is very general in that faculty, staff and students are allowed to copy the software. Point Five manuals are also sold in the bookstore.

Q. I’m in the lab and I have a question/problem/error using Brand X (fill in the blank) software. Can you help me?

A. ACS maintains a well-trained staff of student user consultants. They are usually very knowledgeable regarding supported software packages and can be quite helpful. They are not expected to know every detail about all programs. There are several things you can do before seeing the user consultant to make life easier for all.

- Check the software reference manual. Use the index to find the closest description of your problem; try to figure it out yourself. 90% of the time you’ll find a solution and feel better about it for having done it yourself. User consultants cannot help with problems pertaining to programming logic.

- Look up any error messages that appear in the output; speak to the instructor.

- Have some familiarity with the system or programming language being used. Know the name and version of the software you are using. Tutorials and handouts are often available to help you.

- Provide supporting information such as the most current program listing and all error messages produced. Try replicating the problem. Does it persist? Sometimes simply retyping the line will work when nothing else does.

- When the labs are busy, especially at the end of the semester, be prepared to yield to other users if a solution isn’t immediately apparent. Above all, stay calm; you may be frustrated, but that won’t help in this situation; remember you’re dealing with a computer.

- Try walking away from the problem for a while. Sometimes a fresh perspective will provide a new insight. Be sure to allow enough time for your computer assignments. Plan ahead.

Q. I’m about to purchase a new PC. Should I get a 5.25” or 3.5” disk drive?

A. In many cases, you no longer have this option since 3.5” drives are standard configurations on many machines. Regarding diskettes and drive sizes, it has been predicted "that the market share for 3.5" diskettes will equal that of 5.25" diskettes sometimes in 1993. After '93, market share for the 5.25" diskette will quickly decline" (Today's Office, Feb. 90, p. 45). The majority of PC’s in ACS public labs have 5.25” drives. Recognizing the increased durability, storage capability and more compact size, over the next few years as drives malfunction, they will slowly be replaced with 3.5” drives. Several PC’s in the labs already have both sizes, allowing quick media conversion.

TeX Background

**TeX**, pronounced "tech" and intentionally spelled with a capital X, is a professional typesetting program that will format documents for graphics printers, such as the Apple LaserWriter. This program was recently installed on the Prime and has the capabilities of a very sophisticated word processor. **TeX** is widely used in typesetting textbooks, articles, and other printed material that contain symbols, formulas, matrices, etc.

**TeX** is a bit hard to learn since all of the commands that control the output are in the form of control commands imbedded into the text to be printed. If you make small changes to one of the control sequences you cannot see those changes until you print the document. Difficulties aside, **TeX** is a very powerful typesetting program that handles math formulas embedded into text. The program has many different fonts available in sizes that can be magnified to the specific point size needed. Many different characters, such as the Greek alphabet are available.

The most powerful part of **TeX** is the macro writing feature. Using **TeX** macros, you can program **TeX** to do unusual things such as formatting paragraphs in circles. If you wish to explore this program, there is a **TeX** beginners guide in ACS. You may also wish to consult, "**The TeXbook"*, by Donald Knuth.
GETBITMAIL and EXPLORE

BITNET (worldwide higher education network) users need to receive their BITNET mail regularly or risk losing it. Currently the RNET menu allows users to peek at and decide whether the mail is worth receiving. GETBITMAIL is a utility that will receive all your BITNET mail into a named directory so that you can decide what is worth keeping at your leisure. Type GETBITMAIL at the Primos OK prompt to receive all BITNET mail.

Once you have received your Bitnet files using GETBITMAIL, you may wish to use EXPLORE to list these files. EXPLORE is one of the lesser-known but more useful features of EMACS (the full screen editor on the PRIME). EXPLORE allows a user to access files without leaving EMACS or creating new buffers. EXPLORE permits manipulating and listing files with the same commands used in EMACS. While exploring, you can also rename, delete or spool files without using the PRIMOS command line. You can enter EXPLORE from EMACS by entering "ESC X' and then typing 'EXPLORE' at the command prompt. You will be asked for a directory with your root directory as the default. To explore EMACS files simply move the cursor (using the same movement commands as in EMACS) to the file you are interested in and type 'D' for 'Dive'.

Dive will let you list the file or directory to the screen. EXPLORE also has online help invoked by typing '?' or 'H'. During your EXPLORE session there will be reminders on how to access EXPLORE from a file and how to get help. When you quit EXPLORE, you will be returned to the last file that was modified and not saved, or to the buffer in which EMACS was invoked. To summarize using EXPLORE:

1. Type EMACS.
2. Hit Esc X; then type EXPLORE. (CTRL X, D is equivalent.)
3. You'll be prompted for which directory to explore. In most cases, hit return.
4. Use the EMACS movement keys (CTRL N for next and CTRL Z for previous line) till you reach the file you wish to list.
5. Type D for Dive.
6. Type CTRL X U to back out of EXPLORE.
7. CTRL X CTRL C will exit EMACS.

Both GETBITMAIL and EXPLORE are handy, timesaving and worth investigating. (Thanks to E.Seielstad for development of GETBITMAIL.)

OPIS

L. Northrop's Software Engineering class spent the last year developing an on-line bulletin board system for campus events, sports schedules, student employment listings, and general information regarding classes and deadlines. Similar to public access bulletin boards at the U. of R. and other schools, OPIS (Online Public Information System) is intended to complement traditional publications media and provide ready access to often needed information regarding Brockport events.

When fully operational, the system will be accessible from any Prime terminal or PC via dial-in, and will utilize the PRIME INFORMATION package. Designing and implementing the system was a two-semester task for the group. Now OPIS needs your support to work. When fully operational, campus departments wishing to publicize their upcoming events can announce them using OPIS. ACS will take some time to assess the completed work as well as departmental interest and support for maintaining this project.

A sneak preview of OPIS was demonstrated during Scholar's Day. Brief OPIS training sessions will be held in AC 13 (ISL) on 5/1 at 11 am, 5/4 at 11 am, and 5/9 at 3:30 pm. ACS is grateful for the dedication of the OPIS software engineering class and would like to publicly thank them for their efforts.

New Kermit

MS-Kermit 3.01 is now available for IBM and compatible PC's. The new version features enhanced terminal emulation, improved screen scrolling, enhanced graphics commands in Tektronix emulation, and local area network support. Interested users can bring a blank floppy diskette (5.25" or 3.5") to obtain a copy.

A new version of Kermit is also available for testing on the Prime. Enter Kermit8 to access this revision. Sliding-windows file transfer is supported, a feature which makes transfers much faster. Kermit8 uses a window size of 16. Several PC communications programs, including PC-Kermit 3.01, also have this feature. To enable the sliding windows file transfer feature in MS-Kermit (version 3.01) put this line in the MS-Kermit.INI file:

SET WIN 16

Please report any Kermit problems via E-Mail to STAFF.
Spring 1990 Faculty Computing Support Survey Results

Here are the responses to the survey that appeared in February's ACS newsletter. There were 28 respondents. Percentages do not sum to 100% in cases of multiple responses. Thanks to all who participated. Barcharts are shown on pages 7, 8.

I currently: (please check all that apply)

0% (0%) 1. do not use a computer
18 (64.3%) 2. have a computer in my office
20 (71.4%) 3. have a computer at home
4 (14.3%) 4. plan to purchase a computer during 1990
16 (57.1%) 5. require students to use a computer in at least one of my classes

If space could be designated as a 'faculty/staff only' computing resource area, I would use such an area:

3 (10.7%) 1. frequently (more than once per week)
7 (25%) 2. sometimes (once a week)
12 (42.9%) 3. rarely (less than once a week)
5 (17.9%) 4. never

I would use a faculty computing area: (please check all that apply)

20 (71.4%) 1. to get to a 'faculty/staff only' computing area,
16 (57.1%) 2. If space could be designated as a 'faculty/staff only' computing resource area, I would use such an area:
12 (42.9%) 3. to type professional correspondence
10 (35.7%) 4. to prepare transparencies for presentations
4 (14.3%) 5. to type grant proposals, articles, chapters, etc.
3 (10.7%) 6. to type short in-house memos or letters
3 (10.7%) 7. to type professional correspondence
3 (10.7%) 8. to type grant proposals, articles, chapters, etc.
21 (75%) 9. to evaluate software to which I do not have access
7 (25%) 10. to prepare transparencies for presentations
5 (17.9%) 11. to experiment with computer art, design, graphics
4 (14.3%) 12. to type in-house memos or letters
4 (14.3%) 13. to use desktop publishing for in-house publications
21 (75%) 14. to practice lecture delivery style incorporating various technologies
6 (21.4%) 15. to convert and/or transfer files (from 5.25" to 3.5" disks and vice-versa or from IBM disks to MAC disks and vice-versa)
5 (17.9%) 16. to upload and download files to mainframes
4 (14.3%) 17. for dial out/modem capabilities
1 (4%) 18. other

To get to a 'faculty/staff only' computing area, I am willing to walk:

10 (35.7%) 1. only within my building
5 (21.4%) 2. to an adjacent building
4 (14.3%) 3. to Cooper or Drake
4 (14.3%) 4. other (please specify)

Graduate students should be allowed to use this area too.

18 (64.3%) yes
8 (28.6%) no

I would like to see faculty training sessions on:

2 (7.1%) Copyright and ownership issues
4 (14.3%) Overview of authoring system and tools
11 (39.3%) Hypercard and hypermedia

I would be interested in attending a SUNY-wide conference discussing the use of a particular class of software (e.g., Lotus 123) with teachers from other schools and disciplines:

4 (14.3%) yes
19 (67.9%) no

A PC loan program is needed (check all that apply):

7 (25%) for conference loans - short term requests up to 2 weeks for travel to make professional presentations.
4 (14.3%) for community presentations - 1 or 2 nights.
5 (17.9%) for classroom activity offsite.
5 (17.9%) for 1 month trial periods to evaluate particular software programs.
9 (32.1%) faculty should be able to check out a PC for a whole semester.
12 (42.9%) I need a PC to be permanently housed in my office (and do not have one).
2 (7.1%) I do not foresee such a need for my work.

Regarding campus-wide computer networking (check one):

14 (50%) I encourage my students to buy a copy.
5 (17.9%) If it were updated, I would buy it.
10 (35.7%) I don't really need or use it.

The ACS User's Guide to Computing at Brockport should (check one):

9 (32.1%) contain less information - it's too complicated.
4 (14.3%) contain more information - it's too shallow, not in-depth enough.
10 (35.7%) remain about the same.
1 (4%) include a section on:

Other comments about campus computing support needs (software or hardware requests, etc):

-Update Pagemaker for Mac.
- Move computer facilities in Cooper closer to students, add facilities in Hartwell.
- Library could benefit from LAN of PC's connected to academic & administrative mainframes and outside world.
- Add Macintoshes, hardware and software.
- Need software support people, and more sophisticated student software (e.g., Wordperfect).
- Every faculty member on campus should have a computer in office.
- More computers needed for classrooms.
- Two to three portable Zeniths needed in department (286's or 386's)

Percentages may not add to 100% in cases of multiple responses.
I currently have a computer:

<table>
<thead>
<tr>
<th>Do not</th>
<th>Office</th>
<th>Home</th>
<th>Buy '90</th>
<th>Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0%)</td>
<td>(64.3%)</td>
<td>(71.4%)</td>
<td>(14.3%)</td>
<td>(67.1%)</td>
</tr>
</tbody>
</table>

To get to faculty/staff area I would walk to building:

<table>
<thead>
<tr>
<th>Own</th>
<th>Adjct</th>
<th>Coop/Drak</th>
<th>Other</th>
<th>No reply</th>
</tr>
</thead>
<tbody>
<tr>
<td>(35.7%)</td>
<td>(21.4%)</td>
<td>(14.3%)</td>
<td>(14.3%)</td>
<td>(14.3%)</td>
</tr>
</tbody>
</table>

If faculty/staff computing area were available, I would use:

<table>
<thead>
<tr>
<th>1/wk</th>
<th>&lt; 1/wk</th>
<th>Never</th>
<th>No reply</th>
</tr>
</thead>
<tbody>
<tr>
<td>(10.7%)</td>
<td>(25%)</td>
<td>(42.9%)</td>
<td>(17.9%)</td>
</tr>
</tbody>
</table>

Graduate Students should be allowed to use faculty/staff area:

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
<th>No reply</th>
</tr>
</thead>
<tbody>
<tr>
<td>(64.3%)</td>
<td>(28.6%)</td>
<td>(7.1%)</td>
</tr>
</tbody>
</table>

I would use faculty computing area for:

<table>
<thead>
<tr>
<th>Short in-house memos</th>
<th>Correspondence</th>
<th>Grants, articles</th>
<th>Evaluate software</th>
<th>Overhead prep</th>
<th>PC slide shows</th>
<th>Art/design/graphics</th>
<th>Videodisk/CD-ROM</th>
<th>Authoring programs</th>
<th>Fax information</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>7</td>
<td>7</td>
<td>7 (26%)</td>
<td>7</td>
<td>5</td>
<td>8</td>
<td>11</td>
<td>7</td>
<td>9</td>
</tr>
</tbody>
</table>

I would use faculty computing area for:

<table>
<thead>
<tr>
<th>Desktop publishing</th>
<th>Practice lectures</th>
<th>Software training</th>
<th>Information sharing</th>
<th>Document scanning</th>
<th>Refuge</th>
<th>Transfer files</th>
<th>Mainframe up/down</th>
<th>Modem</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 (14.3%)</td>
<td>2 (7.1%)</td>
<td>9 (64.3%)</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>8</td>
<td>6</td>
<td>4</td>
<td>0</td>
</tr>
</tbody>
</table>
I would like to see faculty training sessions on:

- Copyright/ownership (7.1%)
- Authoring tools (14.3%)
- Hypercard/hypermedia (39.3%)

A PC loan program is needed for:

- Conferences (25%)
- Community (14.3%)
- Classroom (17.9%)
- Software trials (17.9%)
- Entire semester (32.1%)
- Permanent need (42.9%)
- No need (7.1%)

Interested in SUNY-wide conference on software, with other teachers:

- Yes (14.3%)
- No (67.9%)
- No reply (17.9%)

Campus-wide network needs:

- Small LAN (32.1%)
- Maintain current network (64.3%)
- Use similar network (0%)
- Don't use computers (0%)

ACS User's Guide:

- Use personally (50%)
- Advise student use (21.4%)
- Use if updated (17.9%)
- Don't need or use (36.7%)

ACS User's Guide should:

- Contains less detail (0%)
- Contains more detail (7.1%)
- Remains the same (36.7%)
- Includes sections (0%)
**PC Software Holdings at ACS as of 04/01/90**

### IBM PC software:

- **Operating Systems:**
  - Zenith DOS v3.2, v3.3+
  - Zenith OS/2 v1.0
  - PC DOS v3.2

- **Telecommunications:**
  - *Kermit 2.32
  - *Procomm 2.42

- **Databases:**
  - *Dbase III v1.1
  - *Dbase III+ v1.0 Sampler
  - *PC-File+ v2.0
  - PC-File:db v1.0, v5.0

- **Desk Top Publishers:**
  - Ventura Publisher v1.1

- **Spreadsheets:**
  - *Lotus 1-2-3 v1a, 2.01, 2.02
  - Borland Quattro v1.0, Pro
  - *PC-Calc+ v1.0
  - *As-Easy-As v.3.0

### Languages:

- IBM PC GKS v1.0
- DRI C v1.0
- Turbo C v1.5

### Telecommunications:

- Turbo Pascal v4.0
- Microsoft C v5.0
- *Xlisp v2.0

### Databases:

- IBM Fortran v2.0
- IBM Pascal v2.0
- Microsoft Assembler v5.0
- Meridian Ada 2.1

### Desk Top Publishers:

- *PD Prolog v1.91
- MicroEMACS v 3.8f

### Spreadsheets:

- *PC-Write v3.02, PC-Lite v1.01
- WordStar Professional 3.31
- Professional Write 2.01

### Graphics:

- Generic CADD
- Harvard Presentation Graphics
- Inset 2.1
- Microsoft Paintbrush v.4.0
- PaintShow Plus
- Presentation Plus
- Presentation Partner
- PrintShop & Companion
- *RURCI (Calculus)
- *MicroEMACS v 3.8f
- Desqview v1.0
- Microsoft Windows
- Mathematica Demo
- Q & A v3.0
- PC Browse
- Grammatik 3.0
- PICK

### Macintosh Software:

- *Lightspeed C v1.0
- Lightspeed Pascal v1.0

- *PC-File+ v2.0

- Word Processors:
  - *PC-Write v3.02, PC-Lite v1.01
  - MS Word v4.0
  - Word Perfect v5.0
  - WordStar Professional 3.31
  - Professional Write 2.01

- *MS Word v4.0

- *Lightspeed Pascal v1.0

- *Lightspeed C v1.0

- *PageMaker v3.0

- *Ready, Set, Go v4.0

- *Microsoft Excel v.1

- *SAS JMP IN v1.0.

### Misc:

- *RURCI (Calculus)
- *MicroEMACS v 3.8f
- Desqview v1.0
- Microsoft Windows
- Mathematica Demo
- Q & A v3.0
- PC Browse
- Grammatik 3.0
- PICK

- *indicates the software is shareware or public domain.

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**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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### Laser Printer Reminder

During spring, ACS is deluged with graduating students printing resumes. ACS wishes all graduating students good luck with job finding while reminding users that the laser printers are scare resources. They are intended for printing final copies only; not for printing out multiple copies of vitae, projects, and final reports. After printing your final copy, take it to Quick Copy in the basement of Lathrop Hall to make multiple copies. Your cooperation is appreciated.

### Fall Student Employees Wanted

It’s never too early to think about working for ACS next fall. ACS is interested in recruiting students wanting to work in the public computing labs located on the ground floor of Drake and in 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 B10 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:

From any phone:
- 300/1200 baud: 637-2181
- 300/1200 baud: 637-2191
- 2400 baud: 637-2188
- Port Contender: 395-2191

From on-campus phones only:
- 300/1200 baud: ext. 2181

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)

The ACS User's Guide is available in the campus bookstore for $2.75

ACS Spring Hours:

- Monday-Thursday: 8 am - 11 pm
- Friday: 8 am - 8 pm
- Saturday: 12 pm - 8 pm
- Sunday: 1 pm - 11 pm

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

Brian Volkmar, Operations Manager
Office: ACS AC-3, ext. 2479

Mary Jo Orzech, User Services Coordinator
Office: ACS AC-11, ext. 2368

Anne Parsons, Computing Labs Coordinator
Office: Cooper B8, ext. 2293

Barbara Thaine, Secretary
ISL Reservations, ext. 2523

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