The BEOWULF Workstation, faculty-authored "courseware" presented at a recent NYU colloquium. (Story on page 2.)

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SEMESTER SCHEDULE EDITION

Spring '91 at the ACF

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Academic Computing and Networking at NYU is edited and published by New York University's Academic Computing Facility (ACF). Formerly the Academic Computing Facility Newsletter, the new publication's broadened scope is intended to include information about computing and networking activities at NYU's various schools, departments and administrative units.

Copies of Academic Computing and Networking at NYU are mailed to University faculty and staff and are also available from the ACF's Documentation Office (Room 306 Warren Weaver Hall). Students holding ACF individual computer accounts are included automatically in the newsletter's mailing list. Four issues are planned for the 1990–91 academic year, and five issues for 1991–92. Contributions from sources within the University are invited for consideration by the editor.

Unless otherwise indicated, articles are authored by members of the ACF staff. This issue includes articles contributed by the following members of other departments: Donald Chesnut (School of Law); Melanie Dodson (Bobst Library); Ogden Goelet (Near Eastern Languages and Literature, FAS); Stephen Krause, (Purchasing Services); Stuart Spore (NYU Law Library).

Special contributions to this issue were made by the following ACF staff members and associates (in alphabetical order): Gary Chapman, Ed Franceschini, Ed Friedman, Bert Holland, John Kesich, Henry Mullish, Gary Rosenblum, Stephen Rittersporn, Bill Russell, George Sadowsky, Stephen Tihor. Additional production assistance provided by Charlee Leimberg, Telly Mavroidis, and Rita Santiago. Photos by Bruce Falkinburg (pages 8 and 12) and Migdalia Maisonet (page 44).

Newsletter Editor: Estelle Hochberg
Assistant Editors: Lu Ratunil
John Quinan

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From the Director

This is the second issue of our revised newsletter, Academic Computing and Networking at NYU. Reflecting the new publication’s broadened scope, this issue includes contributions from Bobst Library, the Law School, and Purchasing Services, in addition to the Academic Computing Facility (ACF).

In September, in response to demand from students for access to computing facilities, we liberalized the rules for access to several of the ACF’s microcomputer labs. The result of that change has been the establishment of some 1300 new private accounts. There was significantly increased use of the existing microcomputer facilities, but no congestion of them except for the last few days of the semester. We believe that this experience supports our decision to provide increased access for students to our facilities in this manner, and we will be taking additional steps in this direction.

With respect to the ACF’s microcomputer laboratories, we expect to increase the number of Macintosh systems available for use relatively soon. We will also be exploring ways in which the laboratories and the services they offer can evolve to better support our user community. The extended hours of service at the ACF’s microcomputer lab in the Third Avenue North Residence Hall (see page 9) are one example of such a change.

You will note that our program of computer training for the coming semester (see details on pages 33-41) reintroduces a substantial set of classes for Macintosh users. There are new workshops and seminars on Macintosh software, use and care. We are developing this aspect of our training series because the Macintosh is a popular computer at NYU and at many other campuses in the country, and our catalog of microcomputer-related training has not reflected this sufficiently in the past. Many people find the Macintosh easier to use than alternative microcomputers, and the programs available for it more suitable for supporting their academic work.

Students — undergraduate as well as graduate — should note that, starting this semester, they will be eligible to sign up for all ACF educational offerings — workshops and seminars included — and will be admitted as space permits. As in the case of our opening up of the ACF’s microcomputer labs, we will monitor the increased demand for such training and will accommodate it to the extent that our current resources permit.

Our colloquium series on computing in the curriculum will be continued during the new semester (see page 4). Although, as we go to press, not all sessions have been scheduled, we expect to hold a session every two weeks, on the average. This series, co-sponsored with the Faculty of Arts and Science, brings to the NYU campus speakers who are involved with innovative applications of information processing technology to instructional programs at NYU and other institutions of higher education.

From time to time, computer suppliers and professional organizations sponsor programs that provide opportunities of various kinds for faculty, staff, and students in higher education. Several such opportunities are mentioned in this issue: the IBM Academic Computing Conference, the EDUCOM Joe Wyatt challenge, Zenith’s Master of Innovation competition, and Apple’s HyperCard training are examples (see pages 6–8). Whenever these opportunities arise, in addition to publishing the information in this Newsletter, the ACF staff will work to circulate it as quickly as possible to the heads of organizations — Deans, departmental chairs, and so on — to which it might be of interest. ACF staff members are available to assist individuals in the NYU community in exploiting these opportunities.

Faculty members who travel and use computers may be interested in the dial-up service to NYSERNet offered by PSI, Inc. in a growing number of cities in the United States (see page 13). All NYU faculty, staff, and students can take advantage of this service which allows local phone call access to NYU-NET from any of these cities. There is no charge or obligation for this service; it is included in our membership in NYSERNet.

This issue of the newsletter also features a listing (pages 33–41) of the ACF’s program of short courses, workshops, and seminars for the Spring ’91 semester. I encourage you to examine it and to take advantage of the information and skills that are offered. Please let us know if there are other topics which you feel might be of general interest. This semester, for example, we are offering several types of training sessions in response to departments’ requests. Our offerings evolve over time, as do the requirements of the NYU community, and we will continue to work to meet the demand for this type of training at NYU. While our resources may not be capable of supporting all types and amounts of training requested, we will do our best to satisfy your collective needs.

George Sadowsky
sadowsky@nyu.edu
NYU Colloquia Feature Faculty-Developed Courseware

Multi-media Authoring Tools, and Mathematics and Early English Literature Were Among Topics of Fall '90 Series

NYU's Fall '90 Colloquia on uses of computers in the higher education curriculum concluded with presentations of a multi-media authoring tool developed at NYU and of faculty-authored software for the teaching of undergraduate mathematics and early English literature.

These last three fall-semester colloquia featured instructional software developed on and for use with Apple Macintosh computers. Presentations earlier in the semester focused on courseware in medicine and health care, Egyptian lexicography, and the physical sciences, all running on IBM PC's (see the November issue of this newsletter). The increasingly popular colloquia, now in their second year, are sponsored by the Academic Computing Facility (ACF) and the Faculty of Arts and Sciences, with support from Apple Computer, Inc., and the IBM Corporation. An entirely new series of colloquia are planned for Spring '91 (please see page 4 for more on these).

New Multi-Media Tools

New software tools for the production of computerized multi-media classroom materials were the subject of the November 16th colloquium.

Prof. Jacob T. Schwartz of the Department of Computer Science (FAS) focused on three such tools for use with Apple Macintosh computers: SuperCard, a popular commercial presentation system similar to HyperCard, but with additional capabilities; MacroMind Director, a somewhat newer presentation system with intriguing animation capabilities; and a new interface—developed recently at NYU by Prof. Schwartz and his colleagues—that makes it possible to use the very high-level programming language SETL with the Macintosh Graphical Toolbox and other Macintosh multi-media capabilities.

Apple's Macintosh Graphical Toolbox is an extensive set of routines provided by Apple for programmers who wish to develop applications using programming languages. Prof. Schwartz noted that a limitation of presentational programs like HyperCard, SuperCard, and Director is that, like BASIC, their "scripting" languages do not provide sufficient programming capabilities for some instructional topics and so need to be buttressed by higher-power programming languages like SETL.

Prof. Schwartz illustrated the new SETL/Toolbox combination with Geometry Laboratory, a multi-media, interactive learning "lab" produced by Prof. Schwartz for use by high school students. Geometry Laboratory uses SuperCard, Director, and SETL. The student navigates among SuperCard stacks offering animations done with Director, while SETL is used to perform geometric calculations in response to students' input and to display their results.

Also shown at Prof. Schwartz's talk was a demo currently being run at the new Ellis Island museum of immigration. The demo consists of ten multiple-choice citizenship questions—each followed by a humorous animation—that are currently asked of individual candidates for naturalization. It was written at Burns, Connacher, and Waldron, where Mrs. Schwartz is currently Director of Multi-media.

A Mathematics Laboratory

In another session, Prof. Jerrold Marsden, of the Department of Mathematics of the University of California at Berkeley, described a mathematics computing laboratory which he has been instrumental in developing for use by students in undergraduate courses offered by his department.

A growing number of faculty members in the Berkeley mathematics department are using the lab as a supplement to standard existing courses. The
interactive courseware developed for the lab employs a variety of software, principally Mathematica and MacMath on Apple Macintoshes, although a number of different graphics programs are also used. It is structured in modules that are easily adapted to changes in pedagogical approach and textbook, from instructor to instructor and from year to year. Thus far, subjects covered include variable calculus, differential equations, and vector calculus.

For Prof. Marsden and his colleagues, the ability to easily develop three-dimensional visualizations of mathematical concepts for their students is an important benefit of their having integrated computing into instruction. Other advantages include the ability to give their students more realistic mathematical problems and to encourage the development of graphic, rather than algorithmic, thinking in their students. The lab materials have also provided a means of synthesizing topics for the students, and of helping students to form connections among the material taught in their various mathematics courses.

Plans for the lab include the use of additional applications and the development of more modules for these and other mathematics courses. There are also plans to develop HyperCard-like stacks for diagnosing students' difficulties in mastering course material and for possible use as exams.

**Early English Literature**

In the last colloquium of the fall semester, Prof. Patrick Conner, of the Department of English at West Virginia University, demonstrated the HyperCard-based courseware that he has developed. The BEOWULF Workstation is used by students in Prof. Conner's Early English Literature courses and provides them with an interactive means of studying the eighth century epic poem, Beowulf, and of drawing upon and applying the works of scholars in the field.

Students are able to examine experts' differing translations of the poem, tied line-by-line to the poem's text, which can be viewed simultaneously on the screen. Other material includes scanned images of the manuscript, and graphic images of such things as a funeral ship or the drawing of an Anglo-Saxon court, genealogies, and critical essays.

“Buttons” or “hot spots” in much of the reference material allow students to obtain greater detail, cross-references, and so on. An example is the drawing of the old Anglo-Saxon helmet displayed on this Newsletter's front cover. By clicking on the reconstructed scenes that decorate the helmet, students are able to view screen-size enlargements of them.

Prof. Conner believes that the introduction of hypertext and hypermedia have enabled computers to become truly valuable aids in the teaching of literature. He speculated that the further development of computers as instructional tools may lead in turn to new perceptions of what pedagogical goals should be.

At the end of his talk, Prof. Conner demonstrated how another instructor might use his software for the teaching of some other work of literature. A copy of the BEOWULF Workstation is available for examination at the ACF's Faculty Microcomputer Lab (998-4044). For information on obtaining your own copy, please call the ACF at 998-3058.

—Estelle Hochberg
Spring '91 Brings New Colloquia on Faculty-Authored Instructional Software

As we go to press, plans are being completed for the Spring '91 colloquia on computers in the curriculum. There will be an all-new collection of presentations in this popular NYU series focusing on faculty-authored instructional software. As in previous semesters, a broad range of disciplines and institutions will be represented, and interesting demonstrations of innovative courseware can be expected. (Please see page 2 for a report on the Fall '90 series.)

While the complete schedule is not yet available, we are able to give you the following partial information.

- Dr. Terry Cole, of the Jet Propulsion Laboratory in Pasadena, California, will be one of our first speakers in the spring semester series. His topic will be the Application of Parallel Processors in Space Exploration (Friday, February 22, 2 pm).
- Prof. Sebastian Heath, of the Department of Classics at Harvard University, will report on The Perseus Project (Friday, March 1, 2 pm).
- Auditory Perspective and Fusion will be the subject of a presentation by Prof. John M. Chowning of the Department of Music at Stanford University (Wednesday, April 10, time to be announced).
- Also planned is a presentation by Prof. David Bantz, of Dartmouth College's Kiewit Computation Center, who will speak on Scholarly and Instructional Uses of Hypertext.
- Other speakers will include Prof. Andrew C. Gordon (Graduate School of Public Affairs, University of Washington (Seattle)) and Prof. Randall White, of NYU's Department of Anthropology (FAS).

In all, the spring semester series is expected to offer about nine colloquia scheduled approximately every other week. A complete schedule will be mailed to NYU faculty in late January.

Copies will also be available from the ACF's Documentation Office, Room 306 Warren Weaver Hall (998-3036).

All presentations will take place in Room 509 of the Main Building, unless otherwise noted. The Colloquia are sponsored by the Academic Computing Facility and the Faculty of Arts and Science, with support from Apple Computer, Inc. and the IBM Corporation. They are open to all NYU faculty, administrators and graduate students. If you are interested in attending, please call 998-3058; it will help us in our planning. Please call the same number if you require additional information.

Apple's Intensive HyperCard Training for NYU Faculty and Administrators

The Academic Computing Facility has arranged two intensive full-day courses in the use of Apple’s HyperCard. These hands-on workshops are open to all NYU faculty and administrators, and are being offered as part of the series of colloquia on the use of computers in the college classroom sponsored by the Faculty of Arts and Science and the Academic Computing Facility, with support from Apple Computer, Inc., and the IBM Corporation.

Based on the metaphor of a stack of cards, HyperCard is a high-level, easy-to-use system with which one can create interactive programs for use in the classroom. HyperCard runs on Apple Macintoshes and is distributed by Apple, free of charge, with each Macintosh sold. A growing body of faculty-developed "courseware" using HyperCard is already in use at NYU and at institutions of higher education around the country.

Both courses will be taught by training personnel from Apple Computer, Inc. They are as follows:
- HyperCard Fundamentals – Friday, February 8: An introductory-level workshop. Absolutely no background in computer programming is assumed, but previous experience with HyperCard and the Macintosh environment is necessary.
- HyperCard Stack Development – Thursday and Friday, February 14 - 15: An advanced, two-day course. Courseware developed using HyperCard usually consists of one or more stacks. You will be introduced to the fundamentals of scripting and how it fits into the overall design and development of HyperCard stacks. You will learn the major design decisions and scripting operations necessary to make a successful stack. Prerequisites: Familiarity with the Macintosh and with HyperCard fundamentals.

Both courses will be given in Apple's Training Center on East 57th Street. Sessions will begin at 9:00 am and finish by 5:00 pm. Continental breakfast and a light lunch will be provided.

Because the number of computers is limited, reservations are required. Please call 998-3058 to reserve a spot.

Note: If you cannot make these dates, please call 998-3058 to let us know of your interest. Additional training sessions may be scheduled for later in the spring semester.

New ACF HyperCard Seminar:

C.J. Anastasio and other ACF staff members will present "Introduction to HyperCard". The two-part morning seminar will take place on April 19 and April 26. Please see page 41 for details.
Correction

Due to a typographical error, the date of a talk on page 41 of this newsletter was omitted. The complete entry should read as follows:

Macintosh Graphics for Data Presentation

Main Building, Room 509, 10:00 am

ACF staff members will demonstrate several popular packages for Apple Macintoshes that enable you to create line and bar graphs, pie charts, etc. Such packages can be useful for the presentation of data and results in reports and papers. A number of these packages are available to users of the ACF's micro labs.

Mac Graphics Packages
Friday, March 1
Notes from the ACF’s Courseware Lab

A recently established ACF service offers assistance to NYU faculty members in finding, developing, and implementing instructional software for use in their courses. The service involves a small but growing reference library and laboratory for courseware development and trial. The following notes are for current and potential users of the service, and more generally for NYU faculty members and others who are interested in courseware authoring, selection, and development.

**Update on the Lab**

Recent additions to the ACF’s courseware lab include an Apple CD ROM and a Pioneer Laser Disk Player. Also newly available, on a set of laser disks, is Apple’s “Encyclopedia of Multimedia”.

A new LCD (liquid crystal display) overhead can help bring demos, graphic displays and other instructional material prepared on your computer into your classroom lectures. Used with an ordinary overhead projector, this LCD overhead will project the contents of your computer screen onto a conventional “roll-up” film-and-overhead-projector screen of the sort found in most classrooms. It is available for examination at the Lab and may be borrowed from the ACF by faculty members who wish to use it for particular classroom lectures.

**A Courseware “Conference”**

A networked electronic conference (or “list”) on courseware is available over the BITNET. ACSOFT provides a forum for discussions of issues in courseware and authoring among people at academic institutions all over the country.

To subscribe, ACFcluster users (including holders of ACF Electronic Mail Accounts) should send an E-mail message consisting only of the line

```
SUB ACOFT-L yourfirstname lastname to BITNET%LISTSERV@WUVMD .
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IBM VM/CMS users should address the same message to LISTSERV AT WUVMD , instead. If your account is on a UNIX system, use the address listserv@wuvmd.bitnet.

**New Version of HyperCard**

In its newest version, Apple’s HyperCard has been completely redesigned. The “look” of Version 2.0 is updated, and there is now a “Home Stack” instead of the “Home Card”, but there are more changes than just the look.

For example, HyperCard now allows multiple stacks to be open at once, as many as memory allows—a major improvement. There is also an option that allows you to ‘mark’ cards. This allows you to select subsets of cards on which searching, sorting and other operations can be performed—operations which, formerly, had to be done on an entire “background”.

Under Version 2.0, it has become very easy to establish links to other applications; one need have no knowledge of “scripting” (i.e., of writing programs in HyperCard’s macro language, HyperTalk). With a click of the mouse, you can now put HyperCard on hold and jump to the application of your choice—whether spreadsheet or “paint” program. When you quit the application, the computer pops you back into HyperCard right where you left off. There are many other new options as well. Overall, the new features make HyperCard more powerful and easier to use.

**A First Look at IBM Toolbook**

The metaphors are different (one works with books and pages rather than stacks and cards), but it seems as if, with IBM’s Toolbook, PC users have something resembling HyperCard.

Toolbook requires Windows 3.0 and may be somewhat slower than HyperCard. However, it does have color (both an advantage and a disadvantage). More about Toolbook is planned for a future issue of this newsletter.

**No Time to Author Courseware?**

There are ways of exploiting computer technology and integrating it into your curriculum without investing the time required to write your own courseware. The ACF’s courseware service can help you with these “alternate routes” to instructional computing.

For example, you can prepare presentation material for use in conjunction with your classroom lecture. Interactive, rather than linear, “slide-shows” can be produced with surprisingly little effort. And you can use animation to more effectively illustrate dynamic processes discussed in your lecture.

Using existing courseware—perhaps tailoring it to your particular needs—is another option; it allows you to take advantage of both instructional programs and material that others have amassed and written. Two sources of information on existing, faculty-authored courseware are cited on the following page of this newsletter. For further help and information, please contact the ACF at 998-3058.

—C.J. Anastasio
with Estelle Hochberg

For help and information:

For further information on the ACF’s courseware service — or help in developing or implementing instructional software for use by your class — please call 998-3058.
A New Library of Educator-Developed Macintosh Courseware

Free catalogs to a new library of affordable, faculty-authored college-level courseware running on Apple Macintoshes are now available to NYU faculty. Printed catalogs as well as catalogs distributed on disk as HyperCard stacks may be obtained.

The library is a joint effort of Intellimation and Apple Computer, Inc.. At present, there are over 100 programs—a number of them prize-winning—in the humanities and languages; the social sciences; computer science and engineering; mathematics, statistics and logic; the life sciences; physics; chemistry; and earth science. There are also faculty-developed, discipline-specific authoring tools.

Examples of the courseware listed in the catalog include ALIAS, a “HyperCard toolkit for creating cultural, historical and social simulations”. The Would-Be Gentleman “models the economic and social life of a French bourgeois” during the time of Louis XIV of France. Other entries are Phase Portraits, with which students use graphics to explore first order planar systems, and German Tutor.

Current holdings are all “stand-alone”—that is, they require only a Macintosh, with no additional equipment. Multi-media software may be added in the future. Site licenses and “lab pack” rates are available.

All Intellimation catalogs will soon be distributed free of charge as HyperCard stacks on disk with every Macintosh purchased at the Book Store. Under a special arrangement with Apple, NYU faculty members may also obtain a free copy of the catalog from the ACF: contact the ACF’s Faculty Microcomputer Lab at 998-3044.

—Estelle Hochberg

Tell Your Colleagues at NYU About Your Courseware!
The ACF and the Faculty of Arts and Science invite NYU faculty members who are employing innovative applications of instructional computing in their current curricula to tell their colleagues at NYU about it.

If you feel you have something interesting and relevant to present at one of our colloquia in the uses of computers in higher education, please contact the ACF at 998-3058. We will advertise and support your presentation.

Syllabus Subscriptions for NYU Faculty and Administrators

Faculty and staff who are interested in instructional computing may subscribe, free of charge, to Syllabus, Apple Computer, Inc.’s bimonthly publication.

Syllabus, focuses on the use of Macintoshes in higher education. It is a source of information on new programs, books, and software and ideas on the use of computers in the college classroom. It is also a means of finding out about—and getting in touch with—faculty members at other universities who have developed courseware that you might wish to use or adapt or who are applying commercial software in novel and instructionally effective ways.

Articles on the integration of software—faculty-developed and commercial—into higher education curricula include reports of current activity, descriptions of innovative software, discussions of such issues as design and content, and so on. They cover a range of disciplines.

A recent issue, for example, focuses on computing at schools of business. Faculty-authored courseware reported in that issue include a financial accounting tutor; an international oil tanker simulation; a program teaching portfolio analysis; and a “time machine”, rule-based business forecaster. New commercially available products for the Macintosh, including information on low-cost student editions of products, are also covered, and there is an interesting profile of Macintosh use at a number of business schools.

To subscribe to Syllabus, or to examine a collection of past issues, NYU faculty, administrators and staff may contact Judy Clifford at the ACF (998-3032).
"Macintosh In the Classroom" To Be Broadcast at NYU

Series from Apple To Focus on Uses of Mac in Higher Education

On Thursday, January 24, Apple Computer will launch their new "season" of the Apple Education TV Series with "Macintosh in the Classroom." This first program addresses the different ways computers are used in the classroom—from an electronic classroom to a mobile Macintosh unit and long distance learning—and their impact.

All four programs will emphasize real-life examples of how Macintoshes are used in teaching at the college level and may be of interest to many faculty members and administrators at NYU.

The entire series will be aired at NYU under the joint sponsorship of Bobst Library and the Academic Computing Facility. The programs will be broadcast as video conferences via satellite and will be shown from 4:00 to 5:00 p.m. in the East Room of Bobst Library's Avery Fisher Center for Music and Media on the four Thursdays listed below.

January 24: Macintosh in the Classroom

Imagine a classroom where faculty use interactive video and CD-ROM to teach, or where students collaborate online with their peers miles away. This program shows you how the Macintosh is bringing these capabilities—and more—to classrooms around the world.

February 21: Macintosh Solutions for Administrators

See how the Macintosh provides a common user interface to campus-wide information—giving you easy access to campus information systems such as executive support systems, E-mail, financial and library systems, and alumni development services.

March 21: Math and Data Analysis

Learn about the new generation of data analysis and mathematical tools available for the Macintosh—that offer new levels of interaction with data and unprecedented ease of use. Faculty will demonstrate software ranging from symbolic algebra processors to sophisticated three-dimensional visualization packages.

April 25: Multimedia 201: Beyond the Basics

How can you integrate multimedia into your curriculum? Watch Multimedia 201, and get a close look at the tools now available. Learn about multimedia design, prototyping, testing, and delivery. And learn about successful organizational strategies for implementing multimedia.

---from an Apple release

IBM’s Conference for Academic Computing is Coming Up

Presentations of Faculty-developed Courseware Are Solicited

If you are an NYU faculty or staff member who has developed instructional software using IBM computers, IBM may support your participation in its sixth annual Academic Computing Conference, which will take place in Dallas, on June 11 - 13.

Proposals are now being solicited for presentations and demonstrations.

The IBM-sponsored conference focuses on the uses and effects of instructional computing in higher education and is intended to provide an opportunity for faculty members from colleges and universities around the country to share experiences in the instructional use of IBM computing and information technology.

Seventy-five presentations will be selected, and IBM will pay transportation, lodging, and meal expenses for one person per presentation.

Primary selection criteria include innovation, demonstrated impact on the teaching and learning processes, impact on curriculum, effectiveness, and overall quality.

NYU faculty and staff members who would like to submit a presentation proposal should contact Fred Dwyer at IBM Academic Information Systems (203-783-7226). Proposals submitted by February 8, 1991 will be considered.

---extracted from an IBM release
Zenith Competition Seeks Innovative Courseware

Computer Equipment Is Awarded to Winners and their Schools

NYU students, faculty and staff are invited to participate in Zenith Data Systems' third Master of Innovation Competition. The competition, which is in its third consecutive year, is intended to encourage the creative use and development, by students and educators, of PC software and/or hardware applications.

Participants can compete in any one of five categories: Business, Education, Engineering and Computer Science, Fine and Applied Arts, and Liberal Arts and Sciences. All applications must be capable of running on Zenith Data Systems products. (Zenith personal computers are IBM PC "clones").

Winners of first prizes in any of the five academic categories will receive a Zenith PC package worth $5,000, and another $5,000 in computer equipment will be donated in the winner's name to his or her school. Comparable prizes of $4000, $3000, $2000, and $1000 worth of equipment will be awarded to winners of the second through fifth prizes in each category and their schools. In addition, an Innovator of the Year, selected from among the first prize winners, will receive a $5,000 trip for two to Paris.

Applicants must submit a paper by June 1, 1991, and winners will be notified by August 17, 1991. A brochure giving further information on the competition—including descriptions of last year's winning projects—and an application form is available from the ACF's Documentation Office (306 Warren Weaver Hall, 998-3036).

“Success Stories” Sought by EDUCOM Group

Use of Information Technology in Higher Education is Subject of Wyatt Challenge

Do you have a “success story” to tell? A new EDUCOM project seeks to identify and publicize 100 successful implementations of information technology that improve teaching and learning in undergraduate education.

Prompted by a challenge issued by Joe B. Wyatt of Vanderbilt University at last year’s EDUCOM conference, the project will ultimately result in the publication of a book or report as well as in articles in professional publications. Videotape presentations and an E-mail database are also being considered.

The goal is to provide higher education administrators and faculty with a “compendium of success stories in which information technology has made a significant impact on teaching and learning in the higher education environment. These stories will describe the specifics of the particular examples in sufficient detail so that other institutions will be able to consider similar implementations.”

A wide range of implementations by faculty and staff of institutions of higher education will be considered, including those which directly impact instruction and curricula, as well as those affecting “broader facets of academic life”.

NYU faculty and staff members who have a “success story” to report should contact Gary Chapman at the ACF (998-3045 or chapman@acflcuster.nyu.edu). He has been designated NYU’s contact person for the Wyatt Challenge, and he and his staff will work with you to help you take advantage of this opportunity.

At the ACF's instructional microcomputer lab in the Third Avenue North Residence Hall.
Expansion of ACF Micro Lab Use is Well-Received

Policy of More Open Microcomputer Access Will Continue In Spring '91

Fall '90 saw the successful expansion of microcomputer access and use at the ACF's instructional microcomputer labs. It was the semester in which the ACF instituted a new policy allowing more open microcomputer access by NYU faculty, staff and students.

The ACF plans to continue this popular experiment in free microcomputer access in the Spring '91 semester. Under the new policy, anyone with a valid NYU ID may obtain an ACF private microcomputer account allowing use, without charge, of the IBM PC's, Apple Macintoshes, laser printers and software at two of the ACF's microcomputer facilities (see accompanying box for more on micro lab facilities and ACF accounts). As in the first semester, holders of the ACF's priority access accounts (the ACF's Individual and class accounts—also free of charge) will continue to have absolute priority over private micro account holders, and usage by private micro account holders will be limited further during times of particularly heavy demand, should they occur.

Usage Grew As the Semester Progressed

Over the course of the semester, nearly 1300 private micro accounts were issued, about half of them for Macintosh use and half for use of the IBM PC's.

At the Third Avenue North Residence Hall facility, where most of the private micro account usage occurred, the beginning of the semester was comparatively slow and most users were students in classes whose instructors had obtained priority (class) accounts for them. It is usually a little slow at the beginning of the semester, when students are still gearing up before tackling course assignments and projects; further, word of the new policy had not yet gotten out. Usage grew steadily every week as the semester progressed, and by the last month or so of classes, the Third Avenue North lab was operating close to or at full capacity.

At the ACF's Instructional Micro Labs

NYU students, faculty, and staff may use ACF microcomputers under three types of accounts, at no charge to the individual: private microcomputer accounts, individual accounts, and class accounts. The latter two types of account are issued for specific academic purposes and allow priority access to ACF computers.

Obtaining an ACF account. For a private microcomputer account, simply bring your current, valid NYU ID to the Education Building or Third Avenue site and complete a brief application form; you will be established on the spot. Individual and class accounts are obtained through the ACF's Accounts Office (Room 305 Warren Weaver Hall, 998-3035). There is no charge to the users of these priority access accounts, but a special form must be filled out and, for students requesting an individual account, an instructor's signature is required. Please contact the Accounts Office for details.

What's available at the labs. The following microcomputer equipment is available at the ACF's instructional microcomputer laboratories. All systems are connected to local networks linked to the campus-wide network, NYU-NET: MS-DOS equipment is connected locally by Novell-based networks, running over Ethernet, and Macintosh equipment is linked by AppleShare and AppleTalk running over LocalTalk media. For hours of operation, please see inside back cover.

Third Avenue North Residence hall, basement (62 computers):

- 32 IBM and IBM-type computers with mouse and VGA color monitor
- 30 Apple Macintosh SE computers, with two floppy drives
- 1 Hewlett-Packard LaserJet III printer and 2 Apple LaserWriter NT printers
- Over 60 software packages

Currently available to private micro account holders and to instructional/research users (students and faculty with individual and class accounts) during all hours of operation (see inside back cover).

Education Building, Second floor (90 computers):

- 35 IBM PS/2 computers, model 555X, with mouse, VGA color monitor
- 35 IBM PS/2 computers, model 70, with mouse, VGA color monitor; 25 with numeric coprocessor and joystick
- 20 Macintosh Plus computers
- 2 Hewlett-Packard LaserJet III printers and 1 Apple LaserWriter NT printer
- Over 60 software packages

Available to private micro account holders from 8:30 a.m. to 1 p.m., Mon.-Fri., and to instructional/research users (students and faculty with individual and class accounts) during all hours of operation (see inside back cover).

Tisch Hall, Room LC-8 (23 computers):

- 10 IBM PS/2 computers, model 555X, with mouse, VGA color monitor
- 13 IBM PS/2 computers, model 30, with monochrome monitor

Currently available to instructional/research users (students and faculty with individual and class accounts).
capacity, especially from early afternoon into the evenings.

**Hats Off to Our Micro Users!**

As had been anticipated, there were periods in the last week of the semester when the micro labs became so busy that the ACF had to limit use by *private account holders.* (Private account holders had been warned earlier in the semester, when their accounts were issued, that we might have to take some of these measures as the season progressed toward the end-of-term "crunch").

For example, there were periods during that week and the week before when *private account holders* had to wait or were limited to two-hour visits. And on the Monday before the beginning of final exams, we had to close the lab to *private accounts* for a number of hours so that *priority* users could complete their end-of-term class assignments. Once the final exam period begun, usage went down again, so that *private account* holders could return and do their papers.

Hats off to our users! *Private and priority* account holders, they alike were pleasant, cooperative, and understanding throughout the semester.

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**Timely Use of Micros is Urged Once Again**

As we start the new semester, the ACF would like to remind our microcomputer users that the facilities at the labs are limited. While for most of the fall semester we were able to accommodate all would-be users of our microcomputers, there was (and perhaps always will be) an end-of-term "crush".

Therefore, as we did last semester, we urge our micro users to try to do as much of their work as possible early on in the spring semester, and to take advantage of lighter usage during "off-peak" hours at the ACF micro sites.

It is probably unlikely that patterns will be exactly the same from semester to semester, but in the fall semester usage tended to peak during the evenings—from about 7:30 p.m. to 10:30 p.m.—and during the day on weekends, especially on Sundays.

—Estelle Hochberg

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**PC Versions of SPSS and SAS Available, Under Site License, from ACF**

The ACF has site-licensed major components of *SPSS/PC+* and the *SAS Applications System* under *MS-DOS* for distribution to members of the NYU community. The site license makes these popular statistical packages available to NYU graduate students and full-time faculty and staff at considerable savings.

Components of *SPSS/PC+ Version 4.0* covered under the site license are the Base System and the Statistics, Advanced Statistics, and Data Entry modules. The available components of the SAS System Version 6.04 include Base SAS and SAS/STAT. Additional modules (SAS/ETS, SAS/FSP, SAS/GRAPH, SAS/IML, SAS/ASSIST) can be obtained by special arrangement and at additional cost.

Printed descriptions of the packages and their modules are available at the ACF's Faculty Microcomputer Lab (see below). The software is distributed at the ACF along with basic installation instructions; complete manuals produced by the software vendors can be purchased at the NYU BookCenter.

Obtaining the software. To obtain a copy of either of these packages, please make an appointment with the staff of the ACF Faculty Microcomputer Laboratory, 998-3044. You must supply the diskettes. *SPSS/PC+* is distributed in 360K format on 19 double-density 5.25-inch or 3.5-inch diskettes. The SAS System is distributed in high-density format only: on 20 high-density 5.25-inch diskettes or 18 high-density 3.5-inch diskettes.

Each of the packages may be obtained for $125, with a required annual renewal fee of $50. The annual fee enables the ACF to fund the continued licensing of these products so that you will receive all updates, upgrades, and bug-fixes.

For individuals who have obtained versions of these software packages in the past from the ACF, there will be no upgrade fee at this time (Spring 1991); renewal charges will commence in the Fall of 1991.

Individuals may make payment with a personal check; departmental purchases can be paid via a transfer of funds. Fund (continued on page 12)
ACF-Sponsored WordPerfect Users' Conference Starts the New Year

The first ACF-sponsored WordPerfect Users' Group meeting was held here at NYU in early January.

The meeting was a forum for the free exchange of ideas, suggestions, and critical comment, and an opportunity for WordPerfect users in academia to get to know each other. Several different branches of NYU were represented at the conference, in addition to Southern Connecticut State University, Hamilton College, the University of Hartford, Princeton University, and Hofstra University.

The highlight of the conference was the demonstration given with the aid of a video by a representative from WordPerfect on the soon-to-be-released WordPerfect for Windows. Judging from the number of questions raised by the attendees and fielded expertly by WordPerfect's representative, there was no shortage of interest in the subject.

We learned also that WordPerfect 5.2 was also about to be released soon, although we don't have an exact date.

Those of us who are teachers of WordPerfect, distributed handouts that we use in our classes and, as a result, everyone left with a fist-full of new teaching materials. For those who responded to our announcement but couldn't attend, we had enough material to send to them copies by mail.

In addition, there were three excellent presentations by attendees on such WordPerfect features as Tables, Styles and Equation mode.

The idea for the conference grew from a suggestion by Arthur Harris, a professor of Sociology at Syracuse University. Altogether, it was a successful first meeting. Just over a dozen people attended. We expect that additional meetings, if scheduled during the academic semester, will receive a wider response from the many WordPerfect users at NYU. Nothing has been scheduled as yet, but another WordPerfect conference may be scheduled for later this spring. Announcements will be posted on electronic bulletin boards and in the NYU Events Hotline.

—Henry Mullish

Reversed Type in WordPerfect 5.1

Producing White-on-Black Letters for Special Effects

Reversed type is also known as “surprinted” or “dropout” type. In everyday language, it is simply a white letter on a black background. It can be produced in WordPerfect, provided that the printer can handle it. The Hewlett-Packard LaserJet III printers at the ACF's microcomputer facility in the Education Building can print in this reverse mode.

Reversed type can be used to create special effects, for example, displaying an enlarged initial letter at the beginning of the document, such as we have done in this document. Here is how to produce it.

1. First, retrieve the document to the screen and delete the first letter.
2. Press Alt-F9, select the Text Box (or any other box would do), and select Options. The only option that needs to be changed is the percentage of Gray. Change it from 10% to 100%, and press Enter.
3. Now that the Options have been set, we can go ahead and create the corresponding text box. Press Alt-F9, Text Box, Create, change the Horizontal Position to Left from the default of Right, Size = Auto Both, Edit.
4. Now is the time to change the font size for the deleted letter. Press Ctrl-F8, Base Font, move the highlight to CCG Times Italic Scalable (for example), and press s to select it. Make the point size 30.
5. Now we are ready to tell WordPerfect to use White on the Black background we have set up in the Text Box. Remember, we changed the Gray scale to 100%, which is as black as you can get. Again, press Ctrl-F8, Print Color, select White, Enter, type the uppercase letter which was deleted (in our case, R) and press F7 twice to return to the Edit screen.

The first letter of the document should now appear in a white color on a black background in 30 point size.

—Henry Mullish
transfers can be arranged by contacting Judy Clifford of the ACF at 998-3032.

Eligibility and terms. Graduate students and full-time faculty and staff of New York University are eligible to obtain copies of these programs from the ACF. When obtaining one or both of these packages, you will be asked to sign an agreement assenting to the terms outlined above, to refrain from distributing the software to other individuals, and to cease use of the software if you leave the university, as stipulated by our site license agreement with the software vendors.

Consulting services. The ACF provides consulting services to assist you in the use of these software packages. For help with this software, please contact the ACF statistical consultants in Tisch Hall Room LC-7, 998-3434. Please note that recipients of these site-licensed copies should contact NYU consultants rather than the software vendors themselves.

---Gary Chapman

### Overview of the Workstation

The DECstation 5000 Model 200 is DEC's highest-performance, RISC-based workstation. It runs Dec's UNIX operating system, ULTRIX. It is designed for computer intensive two- and three-dimensional graphics applications, and is said to compare well in performance to the SUN SPARCstation 2 and the IBM 320/520 workstation.

Workstations like the DECstation 5000 will be of particular interest to faculty members who are doing work in molecular modeling, visual simulation, laboratory data acquisition, medical imaging, seismic interpretation, financial and quantitative analysis, graphics and animation.

NYU faculty members receive discounts on DEC computers, software, and documentation by virtue of the ACF's memberships in DEC's educational discount programs.

### Technical Specifications

The machine features the MIPS R3000 CPU and R3010 FPU chipset delivering 24 integer MIPS performance, the TURBOchannel open I/O interconnect, up to 120 Megabytes of ECC memory, and an optional VME I/O expansion box.

TURBOchannel is Digital's high-performance I/O channel; Digital has opened the TURBOchannel to third-party developers to encourage the development of additional high-performance boards for this and future DECstation models.

### Contest for Design of High-Performance Boards

DEC has also initiated a world-wide design contest intended to encourage the development of additional high-performance boards for the DECstation 5000 Model 200 and future DEC workstations. A winning design will give $10,000 plus a workstation to the University, $5,000 to the faculty adviser, and a trip for the winning team to California to meet with the developers of the DECstation workstation. The design must be submitted by May 31. For information on the design contest please contact Joan Pedersen at Digital (415 - 853-6531).
Accessing NYU Computers from Afar with Just a Local Call

Have you ever been at a conference in California and wanted to check on your E-mail back home? Or, on sabbatical at Stanford and needed a link back to NYU? Or do you live in Westchester or Suffolk County and need a way to dial in more economically, with just a local call, to ACF computers and other services at NYU?

Now you can. NYU faculty, staff and students may request access to PSInet (Performance Systems International), a new individual dialup service being offered free of charge through the University’s affiliation with NYSERnet. Application forms are available in the ACF Accounts Office, Room 305 Warren Weaver Hall (998-3035). Simply complete the form and send it to PSI headquarters in Reston, VA. When your access is approved, you’ll receive a calling card, an access code and a password.

PSI has recently announced the expansion of their national network (PSInet) to include over 60 U.S. cities. PSInet is a reliable and multi-functional wide area network (WAN) system and service transmitted along fiber optic cable paths from coast to coast. Local installations, referred to as Points of Presence (POPs), represent a cost-effective access to a vast and growing variety of Internetworking services for individual and corporate users of electronic information.

This fall, twenty new POPs were added in cities across the nation. These new locations include major university centers such as Atlanta, Raleigh, San Francisco, Philadelphia, Pittsburgh, Dallas, Baltimore, Seattle, and Denver. In January 1991, PSI plans to announce the addition of twenty more POPs to the network, thereby completing its first major expansion.

Each POP will be available for interconnection of customer Local Area Networks (LANs) and local dialup services, which include access to the TCP/IP packet (Transmission Control Protocol/Internet Protocol). PSI also plans to include a direct Dialup Connection Service (DCS) to all sixty POPs in the network. The DCS service is currently available in Albany, New York City, Boston, Santa Clara, CA, and Washington, D.C. These services provide convenient and extensive access to a wide-range of electronic information and information systems, allowing the user to send and receive information.

What this translates to in terms of actual application is that users armed (continued on following page)
Spring '91 Class Schedules and Planners Now Available via NYU-NET through ACF's INFO

New Service Added to Experimental Online System

The ACF's experimental online system, INFO, has been expanded recently to include new material that may be particularly useful to NYU students, faculty and administrators during the opening weeks of the spring semester. The new material includes the Spring '91 class schedules for all schools as well as the freshman planning guide and academic planner for WSUC.

INFO offers information about a number of ACF and NYU resources, as well as such other services as access to a variety of electronic bulletin boards and the ACF's shareware archive.

Accessing INFO

You can access INFO by connecting to NYU-NET and then requesting it directly at the NYU-NET prompt. It is also possible to connect to INFO from within an account on an ACF VAX/VMS or UNIX computer. Here is how you do it.

1. If you have no computer account but do have an NYU-NET connection, at the NYU-NET prompt, type connect info
2. If you have a regular account on the ACF's cluster of VAX/VMS computers, enter the command INFO.
3. From an ACF E-Mail (i.e., NYUmail) Account, do the following: (a) Choose "Go to menu 2". (b) Select "Telecommunications" and then "Telnet". (c) At the Telnet prompt, enter INFO.
4. If you have a UNIX account, you may also use the command telnet info. INFO will present a menu. To see the new material, choose "courses", then "catalog", "schedule" or "advise", as desired.

Comments or Questions?

Please send any comments or questions to the user "comment" on the computer that you are using (or from within the INFO system).

Representatives of NYU, departments, schools, and programs who would like to add other catalogs and advisement information to the INFO system should contact the ACF by calling 998-3058.

Exchanging Mail with ATT Mail Users

More Notes on Communicating with Commercial Mail Users

An article in the November 1990 issue of this newsletter described the correct address formats to be used when exchanging electronic mail (E-mail) with a colleague who uses the commercial E-mail services provided by Compuserve or MCI Mail.

ATT Mail is another commercial mail service that can be accessed through the Internet. The commands and address formats for exchanging E-mail with ATT Mail users are similar to those given earlier for Compuserve and MCI Mail.

Sending E-Mail to ATT Mail

Use the following address format, replacing username with the ATT Mail username of the person to whom you are sending electronic mail.

On a VAX/VMS computer (the ACF cluster), use

in%"username@attmail.com" remembering to include the quote marks. On a Unix system, use

username@attmail.com

From ATT Mail to NYU

The ATT Mail user with whom you are corresponding should use the following address format:

internet!computer.nyu.edu!name replacing name with the "name" portion of your NYU E-mail address (generally, your username), and computer with the computer on which you receive your E-mail.

—reported by Telly Mavroidis
A Networked Conference for Shakespearean Scholars

Instructors, Researchers and Students Exchange Information Via a BITNET "List"

Shakespearean researchers, instructors, and students—as well as those who share their academic interests and concerns—may wish to look into the BITNET "list"; SHAKSPER. This international electronic conference currently involves more than 90 Shakespeareans (many of whom are prominent scholars), ranged geographically from France and Britain to Japan, Korea, Brazil and Alaska. Membership has continued to grow rapidly since the group's inception, and a number of national and international Shakespeare organizations have expressed an interest in becoming directly involved.

SHAKSPER offers announcements and bulletins, scholarly papers, and the formal exchange of ideas, as well as ongoing opportunities for spontaneous informal discussion, eavesdropping, peer review, and a fresh sense of worldwide scholarly community.

The SHAKSPER fileserver offers conference papers and abstracts, an Index to Scholarly Works in Progress, an International Directory of Shakespeare Institutes, a Directory of Shakespearean Conferences and Calls for Papers, biographies of conference members, and a variety of announcements and bibliographies. SHAKSPERans also gain indirect access to the SHAKSPER Quarto/Folio Textbase: a 17-megabyte textbase of all 55 substantive quarto and folio texts of the 38 plays, and an invaluable tool for textual, bibliographical, or critical research.

No academic qualifications are required for membership in SHAKSPER, and anyone interested in English Literature, the Renaissance, or drama is welcome to join.

—From a SHAKSPER electronic flier

How to Subscribe to SHAKSPER from NYU

Users of the ACF's cluster of VAX/VMS computers or of the ACF's IBM/CMS system may subscribe to SHAKSPER by entering the following commands. On the ACF cluster, at the $ prompt, type (on one line):

SEND LISTSERV@UTORONTO SUB SHAKSPER yourname

replacing yourname with your first and last names (e.g., Mary Jones). Or, if you are an ACF electronic mail account holder, you may send a mail message consisting of the single line SUB SHAKSPER yourname to the address BITNET%"LISTSERV@UTORONTO.CA"

On VM/CMS, use the command (again on one line):

TELL LISTSERV AT UTORONTO SUB SHAKSPER yourname

And for Students of Linguistics. . .

A new BITNET "list" will provide an electronic forum for scholars in linguistics and related academic fields in the United States and abroad. Although the list is moderated, and all submissions are subject to editorial discretion, it has an intellectual or theoretical bent, and discussions of any linguistic subfield are welcome. Membership on the list is open to all.

To subscribe to this list, users of the ACF's cluster of VAX/VMS computers (including holders of the ACF's electronic mail accounts) may send E-mail to IN%"LINGUIST-REQUEST@UNIWA.UWA.OZ.AU" containing as its first and only line the following:

SUBSCRIBE LINGUIST

If your account is on the IBM VM/CMS system, use the E-mail address format LINGUIST-REQUEST AT UNIWA.UWA.OZ.AU instead.
News for NYUmail Users

Session Logs and Access to RLIN and Telnet Are Among New Features of ACF E-Mail Accounts

Three interesting new features have been added recently by the ACF to NYUmail, the menu-driven interface for the ACF's electronic mail (or "E-mail") accounts. NYUmail users now have access to RLIN (Research Libraries Information Network) and, through Telnet, to other computers and services along the Internet. In addition, transcripts of their RLIN and Telnet sessions will now be E-mailed to NYUmail users upon request.

New RUN Access
NYUmail users can now connect directly to RLIN through the NYUmail menu system. This gives members of the NYU community who have both ACF E-Mail accounts and RUN accounts a simple, menu-driven, means of connecting to the RUN online information services from their offices or homes or from an ACF public user work area.

To access RLIN, one goes to NYUmail's "Menu 2" and selects the newly added "Telecommunications Menu". From there, you can initiate a connection to RLIN and sign on to your RLIN account. NYUmail's Telecommunications Menu offers you the option of obtaining a transcript of your RLIN session; if you select this option, a "log" will be mailed to you after you sign off of your RLIN account.

The addition of RLIN access to NYUmail was done in cooperation with Bobst Library.

More About RUN
RUN, the online catalog of the Research Libraries Group (RLG), represents both a union catalog of holdings for over 100 research libraries and archives, and a variety of other online scholarly resources. Since 1988, Bobst Library has provided RLIN personal accounts to NYU faculty and graduate students. In 1990, RLIN became accessible via the Internet providing the ability to "telnet" to RLIN from a regular account on any ACF system. With the recent enhancement to NYUmail, direct access is now also available from an ACF E-Mail account.

RLIN accounts are available free to members of the NYU community through Bobst Library. For further information on RLIN or to obtain an RLIN account, please contact Bobst Library (998-2454).

Telnet Capability
Also added to NYUmail's new Telecommunications Menu is the ability to connect over the Internet to computers and services at other institutions worldwide. The Internet is an international network of networks to which NYU-NET is connected.

The Telecommunications Menu's "Telnet" selection also provides a way to connect to other NYU-NET computers and information services without leaving your NYUmail session. As with RLIN, NYUmail's Telecommunications Menu also offers you the option of having a transcript of your Telnet session mailed to you upon its completion.

To obtain an E-Mail account...

The ACF's Electronic Mail Accounts are available free of charge to all members of the NYU community—faculty, staff, and students. Electronic mail (E-mail) is also available automatically to individuals who have accounts on ACF mainframes and minicomputers.

Use of E-mail is becoming increasingly popular at NYU. The NYU telephone directory published this past fall contains over 2,000 electronic mail addresses of faculty and administrators at NYU, and each week more individuals...
Two New Features on BobCat: Boolean and Limit

Software Upgrade Provides Enhanced Searching Capabilities

If you have used BobCat lately, you may have noticed two new items on the main menu — BOL and LIM. These two searching capabilities, made possible by the installation in August of a new software release, allow users to combine key words and phrases to retrieve more precise results and limit searches to a particular library, year, or media format.

**Boolean (BOL) Function**

The Boolean function incorporates keyword searching, which was formerly a separate menu selection in earlier versions of BobCat. Individual words may be used (for example, SOLAR or ENERGY), and they may also be linked together in phrases as key terms (COMPUTER FILES, MANAGEMENT THEORY). Users can search for keywords in a specific index (title, subject, or author), or in all of these indexes at the same time. This function allows users to identify many more relevant items in the database and provides added flexibility for subject searches.

Keywords and key terms can be combined using the Boolean logical operators (OR, AND, and NOT). Used in the context of a Boolean search, the logical operators have specific meanings:
- OR allows the searcher to request that either term be included; AND requires that they both be present; NOT excludes a term.

Using the BobCat-defined symbols for these operators to combine keywords and terms provides a great deal of flexibility for research. Users can overcome imprecise titles, focus a broad subject heading, or include synonyms and similar terms. The command MORE on BobCat provides examples for using the Boolean operators in a search.

To use the Boolean feature, choose BOL from the main menu or Catalog screen, or type the command BOL at any point. BobCat users in the Library may select from two versions of Boolean searching: SRC — a “fill in the blanks” approach; or ABS — a more advanced searching method. Only the ABS version is available on BobCat over NYU-NET. Prompts and optional commands are displayed throughout Boolean and online assistance is available via the HELP command.

**Limit (LIM) Function**

Limit allows you to narrow search results by certain criteria. Results can be limited according to: location (that is, a single library’s holdings, such as Stern or Bobst); media format (for example, videos, serials, or computer files); or, year of publication.

Limit can be invoked at any point in a search and can be used in conjunction with author, title, subject and Boolean searching. For example, a Boolean search on women in Japan could be limited to books found in Bobst Library and published after 1988. In addition, more than one type of Limit may be used simultaneously.

Once a limit feature has been selected, it will stay in effect for all subsequent searches until BobCat is “reset” by one of the following options:
- typing the command ALL at any point;
- typing the command REMOVE within; the Limit function (available only when prompted), or
- logging off of BobCat with the END command.

To determine if any Limits are currently selected, type SHOW.

To use the Limit feature, choose LIMit from the main menu or type the command LIM at any point. Use the menu displayed to select the type of Limit: LOCation, MEDia, or YEAr.

Additional information on searching BobCat is available at all Bobst reference and information desks, or send an E-mail message to BOBCAT@ACF1.

—Melanie Dodson
(Melanie Dodson heads Bobst Library’s Information and Data Services.)
Purchasing Services

Special Prices on PC's, PC-Compatibles, and Macintoshes

NYU owns approximately 3900 Personal Computers on campus. This quantity consists of such manufacturers as Acer, Apple, AST, Beltron, Commodore, Compaq, Dell, Epson, Everex, Gateway, Hertz, Hewlett Packard, IBM, Leading Edge, NEC, Northgate, Swan, Zenith and many more IBM compatible and store brand Manufacturers.

The following information is to let you know of the current prices and promotions that are offered to NYU by personal computer manufacturers and dealers, and to give you a sense of the going prices on certain system configurations. We will start with IBM and IBM-type computers (pages 18-20) and conclude with Apple Macintoshes (page 21). Note that this article refers to NYU institutional purchases only. For prices on individual purchases, you are encouraged to consult with the NYU Book Center.

We hope that with this information, along with assistance offered by the various microcomputer support services around the University, you will have no problem selecting a system that will meet with your needs. The Sales Representatives' name and phone number have been included should you require further product information.

If you have any questions or comments, I can be reached by E-mail (krause@acfcluster.nyu.edu) or phone (X-81032).

—Stephen Krause
Senior Buyer

NYU Purchasing Services Division

When placing your order for IBM equipment through the Purchasing Department we strongly recommend that you include the IBM extended Warranty option. What this does is convert the IBM's customer carry in repair to either an on-site repair service (for CPU's and Printers) or an on-site exchange service (for monitors). The cost is $40.00 for each CPU and $10.00 for each monitor listed in the table. When requesting this please write it as follows:

#9805 CPU Warranty upgrade to on-site repair service $40.00
#9876 Monitor Warranty upgrade to on-site exchange service $10.00
#9805 IBM proprinter III Warranty upgrade to on-site repair service $11.00
#9805 IBM proprinter X24E Warranty upgrade to on-site repair service $20.00
#9805 IBM proprinter XL24E Warranty upgrade to on-site repair service $30.00
#9805 IBM Laserprinter model E Warranty upgrade to on-site repair service $80.00

The Purchasing Department has arranged with IBM to store certain promotional packages in stock at Central Supply. Some of the configurations carried are the 8555-U31, 8555-T61, 8555-W61 and the 8530-U31. Please contact the Purchasing Department for further information on the models carried and current availability.

(continued on following page)

Please Note... .

...that pricing is subject to change, and that neither Purchasing Services nor the Academic Computing Facility provides the information on this and the following pages with the intention of recommending or endorsing one product over another. For help in selecting personal computer and networking products, NYU faculty and staff may contact the ACF's Faculty Microcomputer Laboratory (998-3036).
(continued from preceding page)

**Westwood Computer Corp.** is an Authorized Dealer of Hewlett Packard products and continues to offer NYU discounts of 45-49% on H/P hardware. See accompanying table for current NYU prices on some H/P products.

<table>
<thead>
<tr>
<th>Laserjet III</th>
<th>$1219.00</th>
<th>Paintjet XL</th>
<th>$1322.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laserjet IIP</td>
<td>$792.00</td>
<td>Cable 10(serial or parallel)</td>
<td>$15.00</td>
</tr>
<tr>
<td>Deskjet 500</td>
<td>$386.00</td>
<td>Scanjet plus w/ interface</td>
<td>$1160.00</td>
</tr>
</tbody>
</table>

**News Bits**

- **Novell** users: Please contact Stephen Krause (X-81032 or krause@acf-cluster.nyu.edu) if you are looking to upgrade your current version of software, are thinking of trading-in another manufacturer for Novell, or are interested in purchasing new Novell licensed software.

  The Purchasing Department, with the Stern School of Business, are looking into Novell’s Education Account Purchase Program.

- **Northgate** computer has upgraded NYU from a National Account to a Corporate Account.

  What does this mean? Jim Ward from Northgate has been assigned as NYU’s Case Manager and can be reached at (800)447-1631 between 7am-8pm. If Jim is unavailable, any of ten technicians will be available to answer any technical or support questions concerning Northgate machines.

  Repair time for Corporate Accounts is cut down from the normal 10-14 days (for National Accounts) to 3-5 days turn around time. (Turn around time is measured from the time a machine is received by Northgate to the time it leaves repaired.)

  Parts shipped to NYU on a swap basis will be given priority over national accounts and will no longer require a credit card number.

- **CMI** (Computer Maintenance Inc.) has replaced Mr. Robert O’Toole as NYU’s account representative.

  If you have any questions concerning PC repairs or maintenance, please contact NYU’s new account representative, Mr. Mike Zepernick. He can be

(continued on following page)
(News Bits, continued from preceding page)

reached at the same number (212)267-9120.
- LBM (Lewis Business Machines Service Co. Inc.) has merged with Big Apple Business Systems, Inc. The Company will now be known as LBM/Big Apple. Any requests for PC Repairs or Maintenance Service should be directed to Mr Arthur Lewis, NYU’s account representative. The new address and phone number are LBM/Big Apple, Systems, Inc., 1133 Broadway, New York, NY 10010; (800)783-5261.

—Stephen Krouse

GATEWAY2000 offers NYU a 3% discount off their then current published list price (prices are subject to change without notice). Prices include a one year on-site warranty on all parts and labor provided by TRW. NYU’s account representative is Bob Burnison and he can be reached at (800)248-2042 Ext. 5537. See following table for current NYU prices on some Gateway2000 products.

| Gateway2000 | 
| --- | --- | --- | --- | --- | --- | --- | --- |
| Model # | 286 | 386/25 | 386/33 | 386/386SX | 386/25s | 386/25se | 386/33se |
| Price | $1495 | $1795 | $2045 | $2395 | $2595 | $2695 | $2895 |

<table>
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<tr>
<th>Hardware</th>
<th>Processor Type</th>
<th>Intel 286-12</th>
<th>Intel 386-SX</th>
<th>Intel 386-25</th>
<th>Intel 386-33</th>
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<tr>
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<td>16mhz</td>
<td>25mhz</td>
<td>33mhz</td>
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<td></td>
</tr>
<tr>
<td>System Memory</td>
<td>1MB RAM</td>
<td>2MB RAM</td>
<td>4MB RAM</td>
<td>8MB RAM</td>
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<td></td>
</tr>
<tr>
<td>Bios</td>
<td>AML</td>
<td>AML</td>
<td>Phoenix</td>
<td>Phoenix</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hard Disk Drive (1.44mb)</td>
<td>40MB IDE</td>
<td>64MB IDE</td>
<td>80MB IDE</td>
<td>120MB IDE</td>
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<td></td>
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<tr>
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<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
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<table>
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<tr>
<th>Video Display</th>
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<th>VGA color</th>
<th>VGA color</th>
<th>VGA color</th>
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<tr>
<td>Monitor</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Mouse</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Keyboard</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Software (preinstalled)</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>DOS 4.01 or 5.0</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Windows 3.0</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>YES</td>
</tr>
</tbody>
</table>

Note: Shipping is $95.00 per system.

HERTZ Computer Corp. offers NYU a 45% discount off their then current published list price (prices are subject to change without notice). Prices include a one year carry-in warranty on all parts and labor. NYU’s account representative is Dafna O’Farrillon and she can be reached at (212)684-3658. See accompanying table for current prices on some Hertz models.

| Hertz Computers | 
| --- | --- | --- | --- | --- | --- | --- |
| Model # | 286/12 | 386/25 | 386/33 | 386/25s | 386/33s |
| Price | $1564 | $2045 | $2395 | $2595 | $2695 |

<table>
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<th>Hardware</th>
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<tr>
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<td>2MB RAM</td>
<td>4MB RAM</td>
<td>8MB RAM</td>
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<tr>
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<td>Phoenix</td>
<td>Phoenix</td>
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<td>3.5&quot; Disk Drive (1.2mb)</td>
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<td>YES</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td>Monitor</td>
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<td>YES</td>
<td>YES</td>
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<tr>
<td>Mouse</td>
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<td>Keyboard</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Software (preloaded)</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>DOS 4.01 or 5.0</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Windows 3.0</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>YES</td>
</tr>
</tbody>
</table>

Note: Other configurations are available from Dell. Shipping is approximately $30.00 per system.

DELL COMPUTERS offers NYU a 7% discount off their then current published price list (prices are subject to change without notice). All Dell systems are covered by a 30-day Money Back Total Satisfaction Guarantee and a one year on-site, next business day service contract which includes all parts and labor. Service is performed by Xerox Corporation. NYU’s account representative is Bill Chance and he can be reached at (800)727-1100 Ext. 7510. See following table for current NYU prices on some Dell systems.

| DELL | 
| --- | --- | --- | --- | --- | --- |
| Model # | 210-4 | 386/wa-2 | 386/wa-3 | 386/wa-4 |
| Price | $1765 | $2041 | $2395 | $2695 |

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<th>Hardware</th>
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<td>2MB RAM</td>
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<td>Bios</td>
<td>Phoenix</td>
<td>Phoenix</td>
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<td></td>
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<td>3.5&quot; Disk Drive (1.2mb)</td>
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<td>YES</td>
<td>YES</td>
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<tr>
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<td>YES</td>
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<td>YES</td>
<td>YES</td>
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<tr>
<td>Windows 3.0</td>
<td>NO</td>
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<td>YES</td>
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</tbody>
</table>

Note: Other configurations are available from Dell. Shipping is approximately $30.00 per system.

Academic Computing and Networking at NYU, January 1991, page 20
Special Prices for Apple Macintosh Computers and Related Products

The Higher Education Purchase Program 1 from Apple Computer, Inc. is the maximum education discount given to any university or college. Savings of up to 53% off suggested retail prices are available to all departments at New York University. For system configuration, please call Bruce Prevo, Apple University Account Representative, at (212)339-3729. Purchases may be made through the University Purchasing Department.

<table>
<thead>
<tr>
<th>Macintosh Classic</th>
<th>Macintosh SE/30</th>
<th>Macintosh Portable</th>
<th>Macintosh LC</th>
<th>Macintosh IIci</th>
<th>Macintosh IIx</th>
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<tbody>
<tr>
<td>Microprocessors</td>
<td>8-MHz 68000</td>
<td>16-MHz 680000</td>
<td>16-MHz 68000</td>
<td>16-MHz 68000</td>
<td>20-MHz 680000</td>
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<tr>
<td>System Software (included)</td>
<td>Apple Double Check</td>
<td>Apple Mac OS</td>
<td>Apple Mac OS</td>
<td>Apple Mac OS</td>
<td>Apple Mac OS</td>
</tr>
<tr>
<td>Memory (RAM)</td>
<td>1 megabyte, expandable to 4 megabytes</td>
<td>1 megabyte, expandable to 8 megabytes</td>
<td>2 megabytes, expandable to 16 megabytes</td>
<td>2 megabytes, expandable to 32 megabytes</td>
<td>4 megabytes, expandable to 32 megabytes</td>
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<td>Operating Systems (optional)</td>
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<td>MS-DOS</td>
<td>OS/2</td>
<td>AIX</td>
<td>MS-DOS</td>
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<td>External disk drive port</td>
<td>120 Direct Drive</td>
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<td>External disk drive port</td>
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<tr>
<td>Hard Disk Options</td>
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<td>40 megabytes</td>
<td>40 megabytes</td>
<td>40 or 80 megabytes</td>
</tr>
</tbody>
</table>

Apple Higher Education Price List

- Macintosh Classic 1MB CPU $709
- Macintosh Classic 2MB HD 40 $1064
- Macintosh SE/30 1MB HD 40 $1921
- Macintosh SE/30 1MB HD 80 $2607
- Macintosh LC 2MB 1FD $991
- Macintosh LC 2MB 2FD $1064
- Macintosh LC 2MB HD 40 $1441
- Macintosh IIsi 2MB HD 40 $2186
- Macintosh IIsi 5MB HD 80 $2560
- Macintosh IIsi 4MB $3402
- Macintosh IIsi 4MB HD 80 $3813
- Apple IIc $137
- Apple IIe $192
- Apple IIe 4MB $2435
- Apple IIe 4MB HD 40 $2816
- Apple IIe 4MB HD 80 $3297
- Apple IIe 4MB HD 80 $3813

*Includes Keyboard
**Free Software for IBM RS/6000 Owners**

Available to NYU Faculty, Staff through ACF

Through a program joined by the ACF on behalf of NYU, software for IBM RISC System/6000 workstations is now available free to NYU departments who have purchased IBM's RS/6000 machines.

The entire set of AIX compilers and libraries for RS/6000 machines may be obtained without charge through IBM's Higher Education Software Consortium (HESC). This includes compilers and runtime environments for FORTRAN, Pascal, ADA, and COBOL; a C compiler; and the AIX Personal graPHIGS Programming Interface, an extended graphical application interface offering advanced interactive graphics rendering capability and true three-dimensional design and visualization capabilities. Also available is software for network management and connections, for 3270-type terminal emulation, for personal computer simulation, for window management, and for access, by IBM PC's running DOS, to the RS/6000 machine, its storage, file system, printers, and X-Windows environment.

IBM's RISC System/6000 computers range from the low end personal workstation (comparable to high end PC's) to large machines suitable for use as network servers or time sharing hosts. They run an operating system, AIX, which is IBM's version of UNIX and are particularly suited for computationally intensive jobs, especially those requiring floating point operations. Their innovative architecture (coupled with compilers which use it to full advantage) enable them to process up to five machine instructions simultaneously. This results in very impressive benchmarks, especially for code which doesn't vectorize well. There is a model which includes built-in three-dimensional graphics support. This, or the optional Silicon Graphics graphics board, make the RS/6000 a first-rate graphics workstation.

For further information, please contact John Kesich at the ACF (kesich@acf4.nyu.edu, 998-3047).

—John Kesich, with Estelle Hochberg

(NYUMail, continued from page 16)

join the University's "E-mail community".

Faculty and staff members may request an E-Mail Account by sending an original letter on departmental stationary. Please use departmental letterhead that shows your department's address and phone number. In the letter, please include your name, title, campus address and campus phone number.

Students will need a faculty sponsor. The sponsor must request the account for the student on departmental letterhead showing the department's address and phone number. The letter should include the sponsor's name, title, campus address, and campus phone number as well as the student's name, address, and phone number (a campus address and phone number, when possible, please!).

Please send your letter via campus (interoffice) mail to: The Academic Computing Facility, Room 305, Warren Weaver Hall.

It will take a few days to establish your account, once we receive your request. When it is ready, we will let you (or your faculty sponsor) know via campus (i.e., interoffice) mail and send you the information you will need to get started using your E-Mail Account.

The ACF's E-Mail Accounts are for activities relating to academic endeavors only. They can be used to correspond with other E-mail users at NYU as well as at universities nation- and world-wide. E-Mail Accounts provide only electronic mail service as well as some additional functionality (a part of which has been described earlier in this item). They do not provide printing, file exchange from a personal computer, word processing or any other services that are normally available with accounts on ACF mainframes and microcomputers. If you require these additional services, please contact the ACF Accounts Office (998-3035) for information about other types of ACF accounts.

If you have any questions about E-Mail Accounts, please call 998-3058.

—Estelle Hochberg and, for Bobst Library, Melanie Dodson
Computing at the Law School

Microcomputer Facilities at the NYU School of Law

PC's, Macintoshes and Online Databases for Legal Research

Over the past ten years, the Law School has acquired over 300 microcomputers, 35 laser printers, four optical scanners, and related peripherals. Here is an overall view of microcomputing equipment and facilities around the Law School. While these facilities are intended for use by faculty, administrators and students at the Law School, this overview may be of interest and use to members of the wider University community, as well.

Faculty Computing

Almost every faculty member uses a microcomputer (mostly IBM XT's, AT's, or PS/2's) and a dot matrix printer for writing and research. Many faculty members also use modems for connecting to Lexis and Westlaw, two extensive online legal databases that are rapidly changing the methods of legal research.

Where possible, faculty computers are connected directly to laser printers. However, there is a policy of placing more expensive equipment, i.e., laser printers, scanners, 3 1/2" external disk drives, and so on., in centrally located offices. Thus, draft-quality printing is done in the faculty office, but most faculty members must go to a nearby secretarial suite to print on a laser printer. Overall, this has been an efficient and inexpensive implementation of equipment.

Administrative Computing

The computers located in administrative offices vary in model and capability depending on the office. On every secretarial desk there is a microcomputer which is connected to a laser printer. There are a number of printing buffer devices installed around the Law School, in some instances allowing 15 - 20 computers to share one laser printer.

In the Alumni Relations and Development office, fifteen IBM and Macintosh computers serve as workstations for a Wang mini-computer. The Wang mini-computer handles all fund-raising database operations. The IBM, Macintosh, and Wang systems are all integrated: data are downloaded and converted from the Wang CPU to PC or Macintosh formats for mailings, and so on.

In the Law Library

The Law Library contains over eighty microcomputers and five CD ROM drives. Twenty of the microcomputers are IBM PS/2 Model 50's with 9600-baud modems, and are dedicated to use for Lexis and Westlaw research. The remaining computers are used for cataloguing and administrative functions.

The Microcomputer Lab

Inside the Law Library, a microcomputer lab has been set up for use by law students for word processing. The lab, which was established about two years ago, contains eleven Zenith model 159-13 PC "clones" with 20-megabyte hard drives, nine Macintosh SE's with 20-megabyte hard drives, two Hewlett-Packard Series II laser printers, and two Apple LaserWriters. The lab is standardized on 5 1/4" disk drives, although there are two 3 1/2" disk drives to use for conversion. Law students have access to the microcomputer lab Monday to Friday, 8:00 am-11:30 pm, and Saturday and Sunday, 9:00 am-11:30 pm.

Software

The following software packages are available at the Law School:

- For IBM and IBM-compatible: WordPerfect version 4.2 (faculty, faculty secretaries, computer lab); Microsoft Word version 4.0 (administrative offices); dBASE III+ version 1.1; Lotus 123 version 2.2; Crosstalk XVI.
- For Apple Macintosh: Microsoft Word version 4.0; Aldus PageMaker version 4.0; MacWrite II; WordPerfect version 1.0.2.

Computer Services

The Law School's MicroSupport Office provides a variety of services for the Law School community: software support for standard Law School software packages, hardware support, training, installation, and consultation. Other services include software conversion between Macintosh and IBM formats and word-processing conversion. Please remember that we are here to make the jobs of Law School faculty, administrators and students easier. If you are a member of the Law School community and have a computer problem or suggestion, please call us at ext. 86108.

Donald Chesnut
(Donald Chesnut is the manager of the MicroSupport Services Department at the School of Law.)
JULIUS Connects To NYU's Campus-Wide Network

Law School Library's Online Catalog Joins NYU-NET

On November 29th, JULIUS, the NYU Law Library’s online catalog, became available over NYU-NET. JULIUS will be available over NYU's campus-wide network 24 hours a day, seven days a week.

JULIUS is named after the Library's former director, Julius J. Marke, who was instrumental in building the Library into one of the preeminent law libraries in North America.

Accessing JULIUS

To use JULIUS from NYU-NET, at the NYU-NET prompt (whether ">>" or "NYUDEM>>"), type connect julius and press the "Enter" or "Return" key. After a moment, JULIUS will prompt you for your "login." Type law, and press <Enter> or <Return>.

Next, the system will ask what type of terminal (i.e., emulation) you are using. Enter either "VT100" or "Wyse", as appropriate. The system will then ask you to verify your choice.

When you are finished using JULIUS, return to the main menu and choose D > Disconnect. This will return you to NYU-NET.

What's Available on JULIUS?

JULIUS contains all titles added to the Law Library's collection since 1979 and many titles acquired before 1979. At this writing, there are more than 40,000 titles on JULIUS. Records are added daily, and the Library expects to systematically add older titles in the future.

Naturally, legal materials predominate in JULIUS, but the catalog is also rich in politics, history, human rights, and similar fields.

JULIUS contains entries for books, serials, loose-leaf services, microforms, video and sound recordings, and computer files. In many cases, you can see if an item is checked out or on order.

Entries can be searched by author, title, call number, subject, and "key-word." Large search results can be easily limited by date, publisher, words in title or author, and in other ways. The system is menu-driven, and we have found it remarkably easy to use. Ease of use is improved further by a sophisticated cross-reference system which helps the user choose subject headings and names.

One especially nice feature is JULIUS' ability to show the user current information about each periodical received. For instance, JULIUS reports that Infoworld volume 12, no. 49 (dated December 3rd 1990) was received by the Law Library on December 4th. Thus, wild goose chases for periodicals are minimized.

Users can leave suggestions in an online suggestion box and recommend new titles for purchase.

For more information, see the Information screens available from JULIUS’ main menu or call the Law Library Reference Desk (212-998-6300). If you have technical questions, call Orley Jones at Law Library Automated Systems (212-998-6336 or 212-998-6333), or send E-mail to joncso@acf5.

—Stuart Spore
Head of Cataloging and Automated Systems, NYU Law Library

User Hint: Sharing Files from Different Versions of WordPerfect

Creating a WordPerfect 4.2 File from Within Version 5.1

Although a school-wide upgrade is planned for the spring, the Law School is still standardized on using Version 4.2 of WordPerfect for the IBM PC. Until the upgrade goes into effect, if you are working with WordPerfect Version 5.1 on a computer outside of the Law School and wish to use a Law School machine to work on the same WordPerfect document, you will need to save your text in the Version 4.2 format.

The steps to do this are as follows. The same procedure could be followed by any WordPerfect 5.1 user who needs to prepare a file that can be edited by the older version of the software.

1. Enter WordPerfect 5.1 and retrieve the document to be converted.
2. Press CTRL + F5 simultaneously (Text In/Out).
3. Press '3' for Save As.
4. Press '3' for WordPerfect 4.2 format.
5. Give the document a new name and save it to disk. If you don't wish to save the original file, you can give the document the same name and the 5.1 file will be overwritten with the 4.2 file.

Your document should now be successfully converted to the 4.2 format. However, please be aware that if you call this file up into Version 5.1 again and save it, the file will be converted back into the 5.1 format and you will have to repeat this process.

—Donald Chesnut

Academic Computing and Networking at NYU. January 1991, page 24
Online News Readers For UNIX Users

Usersnet can be thought of as a world-wide electronic "bulletin board" running over a network of computers.

This bulletin board holds a varied and vast amount of information, with topics ranging from cooking to sports to computers to the environment—a topic for everyone. Information about the latest and greatest movies, books, computers, whatever; free software (in source and binary form); and announcements of talks, meetings, conferences, software problems and fixes—the list is endless—are exchanged on over a thousand topics.

Finding out what topics (also known as newsgroups, or just groups) are available, and to read them, is done through the use of a type of program called a newsreader. While there are several news readers available for UNIX, we recommend two: notes, originally written by the University of Illinois and modified extensively at NYU; and nn, written by Kim F. Storm at Texas Instruments. Both readers are point-and-shoot—i.e., full-screen—programs, but have different interfaces. Both are supported by the ACF. To use either of these news readers, you must inform the system as to what type of terminal you are using (using the standard UNIX commands).

There are a few reasons to use nn over notes. For one, nn's database is physically stored on a disk on another computer; at least 14 days of news are kept. This is in contrast to notes, where we keep a maximum of five days due to the nature of storing the notes (if a reply to a note is less than five days old, the entire note is left intact, resulting in high overhead). Nn also has extensive on-line help—the manual pages (currently 35 pages!) are available from within nn. It has extensive searching features, configurable menus, lets you unshar sources from within nn, and select a range of articles to read. The list goes on and on. Although nn has more features than notes, it is a question of taste (much like the emacs vs. vi argument—simplicity versus all the features you could want) as to which one you use. Notes is quite easy to learn and master.

And on VMS. . .

While there are several news readers available for VMS, we recommend the Australian National University NEWS program, ANU NEWS, which is available on the ACF's cluster of VAX/VMS computers.

You start ANU NEWS up by entering the command news. Since ANU NEWS is a full-screen news reader, before you start the program up, you need to tell VMS what type of terminal you are using or emulating. (For example, if you are using a VT100-type terminal or if your personal computer is emulating a VT100, you would enter vt100 in response to VMS' $ prompt.)

Having done this, you can use ANU NEWS to scroll through the list of news groups and browse within each group of messages. All of the Usenet newsgroups are available to ACFCluster users. (See the accompanying item on UNIX news readers for more on Usenet newsgroups.)

Nn is configured to access the shared news database on NYU.EDU using the NNTP protocol assuring timely access to news and avoiding any local disk storage except for the .nn directory it creates in your home directory. Notes is usually nfs-mounted from another machine (as is the nn database), but not always. In forthcoming issues of this Newsletter, we will give you an introduction to the use of nn and notes. In the meantime, the intrepid can refer to the online manual pages - type 'man nn' or 'man notes'.

As always, please send any and all comments/questions/suggestions—on these or any other packages—via E-mail from any ACF system to 'comment'.

—Gary Rosenblum
rosenblg@nyu.edu

And for Mac users. . .
The ACF has been looking into news readers for Macintoshes. We plan to tell you about them in the next issue of this Newsletter. If you use terminal emulation software and have the appropriate account, you can sign on to an ACF UNIX or VMS computer and use the news readers discussed on this page.

ANU NEWS has extensive internal help and a large manual. The one key concept which is not well explained is the notion of REGISTERing a newsgroup.

You can use the REGISTER command (with the /PRIORITY= qualifier) to arrange to be able to READ/NEW through all your new messages in the order in which you want to read them.

As a technical note, the ACF has ANU NEWS configured so that it accesses the shared news database on NYU.EDU using the NNTP protocol, assuring timely access to news and avoiding any local disk storage on the ACFCluster, except for the NEWSRC.CMCL2-NYU.EDU file which records what messages you have already read.

—Stephen Tihor
tihor@acfccluster.nyu.edu
Interface '91 to Take Place in April

Papers and Workshop Participation are Welcome

Papers are now being accepted for Interface '91, which will be taking place on April 21-24 in Seattle. Entries in a poster/video/demo session are also welcome.

The twenty-third symposium in a long-standing series on the interface between computing science and statistics will focus on critical applications of scientific computing — in biology, engineering, medicine, speech, and other disciplines. In addition to a variety of invited sessions, there will be tutorials in relational databases, parallel computing, and realistic rendering, as well as a workshop in computational molecular biology.

**Computational Molecular Biology Workshop**

An all-day workshop focusing on statistical and computational aspects of molecular biology will precede the symposium's opening reception on Sunday, April 21. Topics will include genetic and physical mapping, protein structure, and sequence comparison. The interplay among biology, computer science and statistics will be an important theme of the workshop. Among the speakers will be NYU Faculty member Tamar Schlick (Mathematics (CIMS)) and Chemistry (FAS)), who will be speaking on protein structure. Some financial support for workshop participants may be available.

**Program Topics**

Topics of invited symposia sessions will include dynamic graphics, computationally intensive methods for discrete data, multivariate statistics and visualization for labelled point data, massive data sets, computational problems in biomedical imaging, graphical models and statistics, computational genetics, computational problems in satellite image analysis, computational methods in spatial statistics, speech and pattern recognition, design and analysis of computer experiments, scientific computing problems in the aircraft industry, neural networks, computing problems in environmental and industrial statistics, data visualization and sonification, engineering applications of computing intensive methods.

For further information...

Authors who wish to contribute a paper or to be considered for the poster/video/demo session should contact Interface '91, Jon Kettenring, Program Chair, Bellcore 2Q-326, 445 South Street, Morristown, NJ 07962-1910 (phone: 201-829-4398; E-mail: jon@bellcore.com). Information on symposium registration and further details on sessions can be obtained from the same address.

Registration for the computational molecular biology workshop is separate. To register for the workshop, contact Prof. Simon Tavare, Department of Mathematics, University of Southern California, Los Angeles, CA 90089-1113 (E-mail: simon@msw.usc.edu).

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Version of SPSS for Mac Is Released

Available for Examination at ACF’s Faculty Micro Lab

The ACF has obtained a copy of the Macintosh versions of SPSS, SPSS Advanced Statistics, and SPSS Graphics. They will be available for examination and trial in the ACF’s Faculty Microcomputer Lab.

SPSS (or Statistical Package for the Social Sciences) is a popular collection of programs for data management, analysis, and presentation. Versions for mainframe computers and IBM PC’s have been available for some time. The new Macintosh version features Macintosh-like pull-down menus and over 30 statistical procedures, from descriptive summaries to multivariate analysis; data management functions for cleaning and transforming values; an on-line, context-sensitive statistical glossary; and SPSS Advanced Statistics, which provide more sophisticated statistical procedures, like probit analysis, discriminant analysis, nonlinear regression, and more. SPSS Graphics for the Macintosh features CA-Cricket Graph.

Members of the NYU community who are interested in trying the new Macintosh versions of these SPSS products should contact the ACF’s Faculty Microcomputer Lab (998-3044). The Faculty Micro Lab is a by-appointment facility. Hours between noon and 8 p.m., Mondays through Fridays, are usually available.

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Academic Computing and Networking at NYU, January 1991, page 26
New Features of SAS Version 6 (continued)

The Second in a Series of Notes on the New Release

Version 6.06 of SAS has been installed on the ACP’s cluster of VAX/VMS computers and on the IBM mainframe’s MVS (WYLBUR) system. It is also currently available for testing on the IBM mainframe’s VM/CMS system. In addition, as we go to press, version 6.04 for the PC is being installed for use at the ACF’s instructional microcomputer labs.

Some of the new features of this latest version of SAS were described in the November issue of this Newsletter. The following is a continuation of that report.

The “New Architecture”
SAS’s vaunted new architecture seems to be characterized by “layered architecture” and “engines”.

Layered architecture. One way of describing the organization of the new SAS program code is in terms of an application layer, a supervisor layer, and a host layer. Because about 90% of the program code was moved into the layers that are not specific to particular types of computers (hosts), the appearance of the program has now been made quite uniform no matter what computer it is run on. The net effect is that for most users the commands and procedures available in SAS will be the same whether it is run on an IBM-type of microcomputer, on VAX/VMS, or on the IBM mainframe.

Engines. Multiple Engine Architecture is SAS’s term to describe the fact that SAS can read and write SAS datasets that are in version 5 or in version 6 formats, as well as in other SAS formats, and in the formats of several popular software packages. SAS refers to the parts of the program that read, reformat, and write the files as “engines”. Among currently available engines are V5 and V6 (described in an earlier article), TAPE, for writing SAS datasets to tape, and XPORT, for creating files that can be readily sent over data communication links. Also available as “read only” engines are BMDP, OSIRIS, and SPSS. The SPSS engine can read older SPSS9 datasets as well as those produced by SPSSX (both native and import/export). It should be noted that PROC BMDP and PROC CONVERT are still available in version 6 of SAS, and that they will automatically select the appropriate engine for the input dataset; however the value of these new engines lies in the fact that they can be selected in a LIBNAME command, and the dataset can then be used without separate “conversion”. For example,

LIBNAME xxx SPSS 'an_spssx_file' ;
PROC CONTENTS DATA=xxx._FIRST_;
PROC PRINT DATA=xxx._FIRST_;

The WHERE Expression

The WHERE expression is of particular value to SAS users when they are processing large datasets, and wish to examine a subset of their data. WHERE enables a user to specify a simple or compound criterion that the data must satisfy before an observation is brought into a DATA or a PROC step.

This feature can yield substantial reductions in processing times (and costs) compared to the older technique of using an IF statement for subsetting inside a DATA step. Note, though, that a WHERE expression can be applied only to an already existing SAS dataset. It cannot be used when raw data are being read; it can only be used in a PROC step or in a DATA step using SET, MERGE, or UPDATE instructions.

Some examples of WHERE statements are:

PROC PRINT;
   WHERE AGE <= 50;
PROC FREQ;
   WHERE STATE = 'Montana';
   TABLES AGE;
WHERE expressions may be used in two ways: as statements in DATA and PROC steps (as illustrated above) or as dataset options (often necessary when using MERGE or UPDATE instructions in a DATA step):)

   DATA C;
   SET B(WHERE=(age LT 50));
WHERE expressions can employ most SAS operators plus several special ones.

Some examples of the latter are:

WHERE taxes BETWEEN pay*.3 AND pay*.5 ; (1)
WHERE cmpny CONTAINS 'bay' ; (2)
WHERE lastname LIKE 'S%'; (3)
WHERE lastname LIKE 'Sm_th%'; (4)
WHERE lastname =* 'Smith'; (5)

In these examples, (1) demonstrates calculations within the WHERE expression;

(continued on following page)
(continued from preceding page)

element (2) would select Robay and Debyles but would reject Baynes because the CONTAINS operator is case-sensitive; (3) would select all last names starting with S; (4) would select Smith and Smythe; and in (5), =* is called the 'sounds-like' operator and it would also select Schmitt and Smitt.

A brief test of the use of WHERE yielded the following results:

**PROC PRINT**;
WHERE X GT 0;
took .19 seconds to process, whereas
DATA B;
SET A;
IF X GT 0;
PROC PRINT;
took .32 seconds.

A few tests of the WHERE expression showed that it has little effect on the time to process a SAS dataset if the number of variables in the dataset are fewer than about 30. As the number of variables increases, the advantage of using WHERE also increases. It was also noted that using the WHERE expression as a dataset option yields greater savings than does its use as a statement.

A feature that plays the greatest role in enhancing the savings achieved by using WHERE, however, is the use of **indexing** which will be described below.

**Indexing**

The SAS system can create, maintain, and use indexes to process SAS datasets that are created and accessed by the V6 engine. Creating indexes provides two major benefits: 1) faster access to a subset of observations when selecting cases by means of a WHERE expression, and 2) data can be accessed in appropriate sequence for BY-group processing without first using the **SORT** procedure.

Indexing permits random rather than sequential access to the observations in a dataset. One or more indexes may be created for a dataset by using **PROC DATASETS**. Tests showed that the use of WHERE with a dataset that has an index provides the most efficient selection of cases.

Further notes on SAS version 6 are planned for the next issue of this Newsletter.

—Bert Holland

### Document Processing

# TeX for the Impatient

A Review of A Truly Readable TeX Reference

There is a new book, *TeX for the Impatient* by Paul W. Abrahams, which I heartily recommend. It packs a lot into its 357 pages, and fills a need which I have heard many lament: it is a truly readable reference for TeX. This should come as no surprise to those familiar with Abrahams' writing style, since he has a reputation for being clear and concise.

The book is organized as follows:

- brief tutorial introduction; section of examples; explanation of **TeX** and typesetting concepts; detailed descriptions of each command, grouped by function; section on common problems; discussion on error messages; set of handy macros; alphabetically ordered, one-line command descriptions with cross-references to detailed descriptions; index.

I have found the book extremely useful for quickly refreshing my memory on the syntax and usage of commands. In addition, the descriptions in the section on **TeX** concepts seem especially effective. Another feature which I found particularly useful was the frequent citation of Knuth's seminal reference on TeX, *The TeX Book*. Quite often when I felt I might want further information on a particular item, the author had included a pointer to the relevant pages in *The TeX Book*. This will be a great time saver.

I must confess that I haven't had time to read the first two chapters (the tutorial introduction), but I did look through the examples and they seemed quite useful. My one complaint is that the paper is of particularly poor quality—it is so thin that you can actually read the text on the back of the page that you are perusing. This is most ironic for a book about TeX, one of the most significant contributions to the art of typesetting.

*TeX for the Impatient* is aptly named. If, like me, you can't find the time to read through *The TeX Book* from cover to cover (three or four times), I'm sure it will make a welcome addition to your bookcase. However, I should warn you that it will probably spend most of its time on your desktop!

*TeX for the Impatient* is published by Addison-Wesley. It was written by Paul W. Abrahams with Karl Berry and Kathryn A. Hargreaves. It is available at the NYU bookstore (and no doubt at fine bookstores everywhere). Incidentally, many at NYU may know Paul Abrahams from his days as a Professor in the Computer Science Department at Courant.

—John Kesich
Computerizing an Egyptian Hieroglyphic Dictionary

Notes from NYU Professor Ogden Goelet on Foreign Character Database Design

In the fall of 1988 I and my colleague, Prof. Christian Sturtewagen of the Pontifical Biblical Institute, formed the *Egyptian Vocabulary Project* with the intention of creating a computerized dictionary of ancient Egyptian in its hieroglyphic form that would assist in the rewriting of the standard dictionary in the field — *Wörterbuch der ägyptischen Sprache*.

Although the venerable *Wörterbuch* is still the standard dictionary in our field, the last volume appeared in 1955, and it is now obsolescent in many respects. In the nearly 35 intervening years there have been many new discoveries, lexicographical studies and major publications which it does not reflect.

While at first glance a dictionary of ancient Egyptian—the epitome of a "dead" tongue—in a database form may seem far removed from the concerns of most readers of this newsletter, the language presents special challenges in database design and graphics programming which may be of interest to a much wider audience than a few Egyptologists. In this article, I will describe some of these challenges and how we have dealt with them. Because the resulting program, EGV, has many features, only the most important will be touched on here.

**Dictionary Emulation**

As we set about designing our program, we soon decided that our guiding principle would have to be *dictionary emulation*—reproducing as closely as possible the various levels of searches employed by scholars when using a foreign language dictionary.

First, the scholar opens the book to the expected location of the word, then the best fit among several possibilities is selected. This process normally involves the scanning of main headings on a page combined with a certain amount of flipping back and forth.

With ancient tongues such as Egyptian, our scanty data and inadequate knowledge of word meanings greatly complicate matters. It is a rule of thumb for scholars of ancient languages that dictionaries are really only as good as the quality of our references. Thus the user, especially if a professional, will occasionally need to perform one step more when examining a word — checking the associated references to confirm whether or not the meaning in the dictionary adequately explains the example being examined. Keeping this entire process in mind, we might consider how these steps might effect the design of a dictionary program.

Since any search may require an examination at varying degrees of detail, an effective computerized dictionary should be easy and *speedy* to use.

Imagine for a moment a book whose pages had some peculiar feature that made them very hard to turn — six, seven seconds a page — so that it became virtually impossible to browse about quickly, while searching for the desired word. This would be an impractical, seldom used book; anyone who has used the reduced print version of the unabridged *Oxford English Dictionary* knows what I mean by this. We immediately realized that rapid screen display at all levels would be absolutely essential, but reluctantly so, because we were fully aware of the difficulties the Egyptian language poses even under the best of circumstances.

**Special Problems with Hieroglyphic Script**

The ancient Egyptian hieroglyphic script was essentially an alphabetic system, written without vowels much like a modern Hebrew or Arabic newspaper.

Illustration 1. A printed rendition of a screen from EGV's View/Edit Mode, in which users select a word for further examination by moving the highlighting bar. (See text, following page, for details.)
Illustration 2. Full display of a word and its variant form. The "(N)otes" above the bottom menu signals that the entry has been annotated and that a note is available for it online.

The basic uniliteral signs are complemented by biliteral and even triliteral signs. In addition to these, there are determinatives, signs placed at the end of a word to signal something about the word’s nature, and finally, ideograms or pictograms, signs meaning the object that they represent.

An Egyptian text involves a complex interaction of all four categories of signs, placing them from left-to-right or right-to-left, in vertical columns or horizontal rows. The classical stage of the language, Middle Egyptian, furthermore, used 800+ signs, all widely ranging in size. Although Egyptian was not picture writing in the strict sense of the word, its hieroglyphic signs were nonetheless pictures, and a pleasing esthetic arrangement of the various components was always important.

A typical example of the problems encountered can be found in the group of three signs in the word 𓊿𓊿 (pt or “sky”) comprised of the two alphabetical signs 𓊿 (p) and 𓊼 (t) over the determinative 𓊼 for sky. All three signs have been arranged so that the entire group fills the vertical space allotted, while at the same time the two smaller elements have been “justified” so that they are flush with the ends of the larger determinative at the bottom.

Computerizing Egyptian Text

Fortunately, the problem of computerizing such a text has been made much easier because the International Conference of Egyptologists (ICE) adopted uniform standards for a sign list with an associated system of coding several years ago as printed in the so-called Manuel de codage.¹ This system employs a combination of alphanumeric sign-list codes and mnemonics for the hieroglyphs with some symbols denoting the arrangement of the signs relative to one another. In the present case, the group would be encoded as p*;pt — here the operator * means “on the same level as”, while : indicates “over”.

normal Roman (with all the European diacriticals), underlined, italicized Egyptian transliteration, Coptic (a late dialect of Egyptian written in a modified Greek script), and finally, Egyptian hieroglyphs (see Illustration 3).

In short, the EGV program not only looks like a dictionary, it also emulates the way a scholar uses one.

**Importing Information**

At present there are five universities that will be contributing data for the Egyptian Vocabulary Project. Each institution will be responsible for one volume of the old Worterbuch. When the moment comes for us to combine our resources, the EGV program has an import/export function with a split-screen display (Illustration 4).

Not only can the user view simultaneously what is on the import and the main database, but he or she can also decide whether or not to add the material on the import diskette. The ability to control and reconcile data before it is added is critical to scholars, who may at times disagree with the work of others. A similar procedure applies to the notes as well as to the bibliographical references.

In short, our program closely recreates the way in which Egyptologists use our standard dictionary—main entry, bibliography, marginal notes, adding new material. In a forthcoming issue of this newsletter, I hope to discuss some of the technical details of how our program works. I believe we have gained some invaluable insights into two of the most important issues in the design of dictionary databases: how to handle large and difficult character sets and, most importantly, efficient strategies for entering large quantities of bibliographical cross-references.

—Ogden Goelet

(Prof. Goelet is a member of NYU’s Department of Near Eastern Languages and Literature (FAS). The Egyptian Database Project and his program, EGV, were the subjects of a presentation by Prof. Goelet as part of the Fall ’90 series of Colloquia on Uses of Computers in Higher Education Curricula. For a partial list of this semester’s s colloquia, please see page 4.)
**Spring '91 at the ACF**

## Important Dates for ACF Users

### January

<table>
<thead>
<tr>
<th>Date Range</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current</td>
<td>Instructors apply for Spring 1990 Class Accounts as early as possible.</td>
</tr>
<tr>
<td>Jan. 21*</td>
<td>(Mon.) Martin Luther King, Jr. Day</td>
</tr>
<tr>
<td>Jan. 22 - Feb. 11</td>
<td>(Tues. - Mon.) Students register for computer use for spring semester.</td>
</tr>
<tr>
<td>Jan. 22</td>
<td>(Tues.) Spring semester begins.</td>
</tr>
</tbody>
</table>

### February

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feb. 18*</td>
<td>(Mon.) Presidents' Day</td>
</tr>
</tbody>
</table>

### March

<table>
<thead>
<tr>
<th>Date Range</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 11 - 16</td>
<td>(Mon. - Sat.) Spring Recess</td>
</tr>
</tbody>
</table>

### April

<table>
<thead>
<tr>
<th>Date Range</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 21</td>
<td>(Sun.) Founders Day</td>
</tr>
<tr>
<td>April 29, onward</td>
<td>(Mon.) Instructors may apply for Class Accounts for both summer sessions.</td>
</tr>
</tbody>
</table>

### May

<table>
<thead>
<tr>
<th>Date Range</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 1 - 15</td>
<td>(Wed. - Wed.) Students who expect Incompletes in spring semester courses should apply for computer account extensions. (Instructor's signature required.)</td>
</tr>
<tr>
<td>May 1 - 15</td>
<td>(Wed. - Wed.) Students with spring semester Class Accounts should archive all files they wish to save after May 15.</td>
</tr>
<tr>
<td>May 1 - Aug. 1</td>
<td>(Wed. - Sat.) Individual Account holders who will not be returning for 1991/92 should archive their files.</td>
</tr>
<tr>
<td>May 7 - 15</td>
<td>(Tues. - Wed.) Spring semester final examinations</td>
</tr>
<tr>
<td>May 15</td>
<td>(Wed.) Spring semester ends</td>
</tr>
<tr>
<td>May 15</td>
<td>(Wed.) Student Class Accounts issued for the spring semester expire.</td>
</tr>
<tr>
<td>May 15, onward</td>
<td>(Wed.) Instructors may begin to apply for fall semester computer Class Accounts now.</td>
</tr>
<tr>
<td>May 15 - June 3</td>
<td>(Wed. - Mon.) Students register for computer use for Summer Session I.</td>
</tr>
<tr>
<td>May 16</td>
<td>(Thurs.) Commencement</td>
</tr>
<tr>
<td>May 20</td>
<td>(Mon.) ACF's Summer Hours begin.</td>
</tr>
<tr>
<td>May 20</td>
<td>(Mon.) Summer Session I begins.</td>
</tr>
<tr>
<td>May 20</td>
<td>(Mon.) Individual Account holders should apply for annual renewal of their accounts before leaving for the summer. (Individual Accounts expire on Aug. 31.)</td>
</tr>
<tr>
<td>May 27*</td>
<td>(Mon.) Memorial Day</td>
</tr>
</tbody>
</table>

*University holiday

**Please see inside back cover for the ACF's regular and holiday hours.

§Toward the end of each semester, the ACF may open one or two additional sites on Sundays to help students with their end-of-term preparations. Hours and locations to be announced.
ACF Microcomputer Workshops

The ACF's non-credit, half-day workshops in personal computing are open to NYU faculty, staff, and students—both graduate and undergraduate. This semester, these hands-on workshops for users of IBM PC's and Apple Macintoshs will include sessions on the popular word processing programs WordPerfect and Word; graphics with WordPerfect, MacPaint, MacDraw, and SuperPaint; the spreadsheet programs Lotus 1-2-3 and Excel; and the database management systems, dBase IV and Paradox.

In order to accommodate as many registrants as possible, it may be necessary to share computers.

Registration is required, but there is no fee for the microcomputer workshops. To register, during the week of the workshop please call Henry Mullish (998-3039) for IBM PC workshops, or Howard Fink (998-3500) for Macintosh workshops.

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For IBM PC Users

At the ACF’s Education Building site, 35 West Fourth Street, second floor. Morning workshops will run from 9 a.m. to 12 noon, afternoon workshops, from 1 p.m. to 4 p.m.

WordPerfect 5.1
(Introduction)
Morning Workshops:
January 25 • February 1, 22 •
March 1, 8, 15, 22 • April 5, 19, 26 •
May 3, 24 • June 7, 21 • July 5
Afternoon Workshops:
January 25 • April 12

WordPerfect
(Intermediate)
Afternoon Workshops:
February 1, 22 • March 8, 22 •
April 19 • May 3, 24 •
June 21 • July 5

WordPerfect Graphics
Morning Workshops:
February 8 • March 15 • June 28 •
February 15 (Feb. 15 is Advanced)
Afternoon Workshop:
April 26

dBASE IV
Morning Workshops:
April 12 • June 14
Afternoon Workshops:
February 15 • March 1

Lotus 1-2-3
Morning Workshop:
May 10
Afternoon Workshops:
February 8 • April 5 • June 7

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For Macintosh Users

At the ACF’s Third Avenue North Residence Hall site (75 Third Avenue, basement) from 9 a.m. to 11:30 a.m.

Microsoft Word
(Introduction)
February 21 • March 7 • April 4 •
May 2 • June 6 • July 11

Microsoft Word
(Intermediate)
February 28 • April 11 • June 13 •
July 18

Microsoft Excel

March 21

Graphics with MacPaint, MacDraw and SuperPaint
April 25

PageMaker
Part I: February 7
Part II: February 14
ACF Tutorials Spring 1991

New computer users at NYU are welcome to take part in the ACF's introductory-level "walk-in" tutorials. Reservations are not required. Simply arrive a few minutes early at the site where the tutorial is being given.

There is no charge, but participants should have a current, valid NYU I.D. In addition, some VMS, UNIX and IBM mainframe tutorials require a computer account. Please call Frank LoPresti at the number below for further information.

Faculty may also arrange tutorials specially for their classes or research groups. For IBM WYLBUR or VM/CMS, call Ivor Smith (998-3434); for all other systems, Frank LoPresti (998-3398).

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**WordPerfect (IBM PC)**
Jan. 28 through May 15

**Mondays**
Third Ave. No. Res. Hall, basement (Enter at 11th Street)
2:30 pm

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**Karel (Apple Macintosh)**
(Students must bring a double-sided, double-density 3 1/2 inch diskette.)

Education Building, second floor:

**Mondays**
Jan. 28, Feb. 4, 11
10:00 am, 11:30 am, 4:30 pm

**Tuesdays**
Jan. 29, Feb. 12
11 am, 1:30 pm, 3:00 pm

**Wednesdays**
Jan. 30, Feb. 6, 13
10:00 am, 11:30 am, 4:30 pm

**Thursdays**
Jan. 31, Feb. 7, 14
11 am, 1:30 pm, 3:00 pm

**Fridays**
Feb. 1, 8, 15
10:00 am, 11:30 am, 4:30 pm

**Saturdays**
Feb. 2, 9, 16
11:00 am, 2:00 pm

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**Microsoft Works (PC, Mac)**
Third Ave. No. Res. Hall, basement (Enter at 11th Street.)

**Wednesdays (PC)**
Feb. 13, March 13
April 10, May 8
6:00 pm

**Wednesdays (Mac)**
Jan. 23, Feb. 27
March 27, April 24
6:00 pm

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**Notes:**
Karel tutorials are intended for students in the Computer Science Department's "A" courses. Each Karel tutorial is limited to ten students. For more information, please call Jae Fried at 998-3436.
UNIX (VAX and SUN)†
14 Washington Place, basement
Jan 22 through May 15

Mondays
4:30 pm

Tuesdays (Jan. & Feb.)
3:00 pm

Fridays
12:30 pm

Saturdays
3:00 pm

(Saturdays at Education Building, second floor)

VMS (VAX)†
14 Washington Place, basement
Jan. 22 through May 15

Mondays
6:30 pm

Tuesdays (Jan. & Feb.)
4:30 pm

Fridays
11:00 am

Saturdays
1:00 pm

(Saturdays at Education Building, second floor)

†Participants in UNIX, VMS, Electronic Mail, WYLBUR and VM/CMS tutorials should have an account on the appropriate ACF computer.

Electronic Mail (VMS, UNIX)†
14 Washington Place, basement

Wednesdays
Feb. 6, March 6, April 3, May 1
4:00 pm

WYLBUR (IBM mainframe)†
Room LC-8, Tisch Hall

Mondays
Jan. 28, Feb. 4, 11, 25
5:30 & 6:30 pm

Thursdays
Jan. 31, Feb. 7, 14, 21
5:30 & 6:30 pm

Introductory Lectures
Room 102, Warren Weaver Hall

Fridays
Feb. 1, 8, 15, 22
6:00 pm

VM/CMS (IBM mainframe)†
Upon request, by appointment; call Ivor Smith at 998-3434.

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- WordPerfect Graphics — p. 33
ACF Talks & Seminars*

For Instructors Using VMS at NYU

Education Building, second floor, 2:30 pm

An introduction to the special features of accounts provided to instructors and classes using the ACF's VAX/VMS computers.

Under the ACF Course System, teachers of classes with VMS accounts have both "library" and "teacher" directories. Other features include class bulletin boards, direct instructor access to students' computer work, and (at the request of the instructor) electronic submission of students' completed homework. Shared electronic work spaces can also be set up, if desired, either for the entire class or for subgroups within the class.

In this new talk, Stephen Tihor will present the information needed to benefit from these very useful instructional aids.

For Instructors Using VMS
Tuesday, January 29

Topics in VMS

Education Building, second floor, 2:30 pm

This intermediate-level "mini-course", given by Stephen Tihor, will be of interest to users of the VAX/VMS systems at NYU.

Topics will include the structure of the VMS system, course-structured accounts, command aliases, combining old commands into new ones, command files, batch job queuing, surviving system shut-downs, restarts, system internals, and more, depending on audience interest. (Attendees are expected to have taken an ACF introductory tutorial in VMS, given this semester at the ACF's 14 Washington Place site.)

Topics in VMS (part I)
Tuesday, February 5

Topics in VMS (part II)
Tuesday, February 12

Topics in VMS (part III)
Tuesday, March 5

Supercomputer Access at NYU

Warren Weaver Hall, Room 1303, 2:30 pm

A discussion by Ed Friedman and Jeffrey Bary of supercomputer resources available to researchers at NYU—both those at NYU (like the CONVEX, Stellar, and Silicon Graphics) and those at National Science Foundation-funded supercomputer centers, including the Cornell Theory Center, the Pittsburgh Supercomputing Center, and others.

Topics will include how to choose and apply for use of these NSF-funded supercomputer labs, and how to access their computers and equipment from NYU.

A packet of application forms and instructions will be available to those attendees who are interested in using NSF-supported supercomputer facilities.

Supercomputer Access at NYU
Tuesday, March 19

Advanced Topics in the Use of DEC Mail on VMS

Warren Weaver Hall, Room 1303, 2:30 pm

ACF Electronic mail "post master" Jeffrey Bary will discuss and demonstrate advanced use of the DEC electronic mail program.

This hands-on demonstration at the ACF's PC lab in the Education Building will be of interest to current and prospective users of electronic mail on the ACF's cluster of VAX/VMS systems—including users of the ACF's special electronic mail accounts and NYUmail.

Participants will explore the use of folders, printing, editing, and other advanced features of DEC MAIL.

Topics in DEC MAIL
Tuesday, March 26

Diagnosing and Repairing IBM PCs

Education Building, second floor, 2:30 pm

ACF staff members will discuss and demonstrate trouble shooting techniques and other strategies for dealing with problems that one might encounter while using one's PC.

* All are welcome. Unless otherwise indicated, speakers are ACF staff members, and reservations are not required.
This talk is geared toward owners of IBM-type PC's in the NYU academic community. (Please see April 9 for a comparable presentation for Apple Macintosh owners.)

**IBM and Apple Networks for Microcomputers**

Education Building, second floor, 2:30 pm

Larry Mingione will speak about two popular microcomputer networks in use at the ACF's Education Building site, AppleShare (for Apple Macintosh) and Novell (for IBM PC's).

In this overview of the two types of networks, he will touch on some of their differences and similarities. He will describe some of the essential tasks and concerns for administrators of small microcomputer networks, and will demonstrate a few basic network management routines and commands.

**Repairing IBM PC's**

Tuesday, March 26

**Repairing Mac's**

Tuesday, April 9

**Communicating around the NYU Network:** Kermit, Telnet, ProComm and FTP

Tisch Hall, Room 1C-8, 10:00 am

A variety of machines and networks are connected to NYU-NET, NYU's campus-wide network, and users can communicate with them via an assortment of communications protocols and packages.

In this session, ACF staff members will talk about four types of communications software packages that are commonly used at NYU, and which should be used in the several different sorts of connections that are possible when communicating via NYU-NET. Such issues as file transfer and terminal emulation will also be addressed.

**Diagnosing and Repairing Macintoshes**

Education Building, second floor, 2:30 pm

ACF staff members will discuss and demonstrate trouble shooting techniques and other strategies for dealing with problems that one might encounter while using one's Macintosh.

This talk is geared toward owners of Apple Macintoshes in the NYU academic community. (Please see March 26 for a comparable presentation for owners of IBM PC's.)

**Repairing Macs**

Tuesday, April 9

**NCAR Graphics Version 3.0**

Warren Weaver Hall, Room 1303, 2:30 pm

Ed Friedman will discuss this new version of NCAR, a system that has been used for a number of years by researchers at NYU for visualization of their results.

Version 3 offers improved contouring, color-fill, text-handling, and movie-making capabilities, an expanded list of supported terminals and printers, and—in the version released for UNIX systems—new support for X-Windows terminals and for workstations with an interactive windowing interface.

NCAR is available on a number of ACF computers, and the ACF now has an NCAR site license.

**Internetworking at NYU**

Education Building, second floor, 2:30 pm

The current status and outlook for data and video communications networks using the Internet at NYU will be discussed by Bill Russell. The Internet is a network of TCP/IP networks accessible from NYU via NYU-NET, NYU's campus-wide network.

**Document Preparation with LATEX**

Education Building, second floor, 2-4 pm

Given by John Kesich. TEX is a program designed to produce high-quality typeset documents. LATEX adds to TEX a collection of commands that simplify typesetting by letting the user concentrate on the structure of the text rather than on formatting commands.

*(continued on following page)*
The first meeting will cover the typesetting of mathematical and non-mathematical documents using LaTeX, with emphasis on macros, dealing with errors and navigating through the LaTeX book. In the second meeting, topics suggested by those present at the first meeting will be discussed.

**LaTeX (part I)**
Wednesday, April 3

**LaTeX (part II)**
Wednesday, April 10

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**Technical Seminar for System Administrators of NYU-NET Nodes**
Warren Weaver Hall, Room 1303, 2:30 pm
This talk will be of interest to people who are responsible for the configuration and management of systems software on one or more computers or departmental networks attached to NYU-NET.

Bill Russell will discuss the use and configuration of name servers, of sendmail, and of the routing daemon, and other topics of importance in this area.

The talk assumes familiarity with system management concepts, and with the use of DECnet or TCP/IP, Telnet and FTP. Note that system performance optimization will not be covered in this talk. Although only VMS- and UNIX- based hosts will be covered in detail, the general principles will be applicable to all types of systems.

**System Managers’ Seminar**
Tuesday, April 23

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**BITNET and BITNET Services**
Education Building, second floor, 2:30 pm
BITNET is an international network of over 2000 computers at universities and research centers.

In this talk, Jeffrey Bary will demonstrate many of the features of the BITNET. Topics will include BITNET "file servers" and "listservers", file transfers, connectivity and electronic mail, relays, electronic magazines, and online "white Pages".

**BITNET and BITNET Services**
Tuesday, April 23

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**Accessing Other Library Computer Catalogs via Internet**
Education Building, second floor, 2:30 pm
Many universities have made their online library catalogs available on the Internet. Staff from Bobst Library and Jeffrey Bary of the Academic Computing Facility will be speaking about accessing and using these resources. Topics will include connecting from on and off campus, availability and contents of library catalogs, identifying and obtaining materials from other libraries, and alternatives currently available, such as the union online catalog RLIN, for locating materials at other libraries.

**Accessing Other Library Comp. Catalogs**
Tuesday, April 30

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**Topics in WordPerfect and PageMaker**

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**Creating Tables in WordPerfect 5.1**
Education Building, second floor, 1:00 pm
Given by Henry Mullish. "Tables" is a feature of WordPerfect 5.1 (IBM PC version) that can be used with any document involving columns and tables. This very flexible and fast new feature promises to give WordPerfect documents a new look and to facilitate preparation of otherwise unwieldy documents. Reservations are required; please call Henry Mullish at 998-3039.

**WordPerfect Tables**
Wednesday, April 30

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**WordPerfect 5.1 Macros**
Education Building, second floor, 1:00 pm
Henry Mullish will demonstrate how to dramatically increase productivity when working in WordPerfect 5.1 on the IBM PC, by creating macros for common tasks. No previous knowledge of macros is required, although a knowledge of WordPerfect would be helpful. Reservations are required; please call Henry Mullish at 998-3039.

**WordPerfect Macros**
Wednesday, February 6
WordPerfect's "List Files" Feature Explored
Education Building, second floor, 1:00 pm
Given by Henry Mullish. The "List Files" key in the IBM PC version of WordPerfect is a rich source of useful information. For example, the key allows you to search all your documents for particular text strings - a useful capability, when you do not know the name of a file you are seeking. The copying, renaming, deleting, and printing of files - with many options - are among other capabilities offered by this key. Reservations are required; please call Henry Mullish at 998-3039.

Grammar and Style Analyzers
Education Building, second floor, 1:00 pm
Henry Mullish will discuss a number of PC programs that analyze documents for grammar and style. His talk will focus on RightWriter by RightSoft and will include a demonstration of that program. Reservations are required; please call Henry Mullish at 998-3039.

Newsletters with WordPerfect
Wednesday, February 27

Mail Merge in WordPerfect
Education Building, second floor, 1:00 pm
One of the most effective methods of expediting office mailings is by means of "mail merge". It allows you to incorporate names and addresses contained in a mailing list database with the body of letters prepared with a word processor. In this session, Henry Mullish will explore the Mail Merge feature of the IBM PC version of WordPerfect. Reservations are required; please call Henry Mullish at 998-3039.

Endnotes and Footnotes
Wednesday, April 24
Repeated Wednesday, June 19
(continued on following page)
Date and Time
Education Building, second floor, 1:00 pm

WordPerfect provides a standard method of including the current date in a letter or document. However, if you wish, you can customize the format in which the date is displayed to suit your own purposes. In fact, it is also possible to include the time of day. Participants in this session will explore the many formats in which date and time can be displayed in documents produced with the IBM PC version of WordPerfect. Reservations are required; please call Henry Mullish at 998-3039.

Uses of Blocking in WordPerfect
Education Building, second floor, 1:00 pm

Typed documents may be edited or reconstructed "on the fly". This is done easily by means of blocking which is more than an amenity—it is a necessity. Many examples of the use of blocking will be demonstrated.

Search and Search-Replace
Education Building, second floor, 1:00 pm

Changes to long documents can be expedited by means of WordPerfect's Search and Search-Replace functions. In this session, participants will examine typical examples in which these features of the IBM PC version of WordPerfect can be particularly useful.

Using Equation Mode in WordPerfect
Education Building, second floor, 1:00 pm

Given by Henry Mullish. Equation Mode promises to make WordPerfect (IBM PC version) a major contender in the technical word processing field. This new feature of WordPerfect 5.1 helps you to type technical material in an attractive way. (No calculations are performed, though!). Reservations are required; please call Henry Mullish at 998-3039.

Mathematica
Main Building, Room 509, 10:00 am

Mathematica is a general system for doing mathematical computation.

It can function as a calculator, programming language, or system for representing mathematical knowledge. Results of calculations can be numerical, symbolic, or graphical.

Topics to be covered include symbolic and numerical methods, data visualization, programming techniques, and advanced applications. Speaker: ACF consultant Howard Fink.

Introduction to SPSS
Main Building, Room 509, 10:00 am

ACF consultant Bert Holland will provide an introductory-level overview of this popular statistical package available at NYU. Discussion will include such other topics as program structure, language syntax, data handling, and the running of programs written with SPSS.

IBM PC Graphics for Data Presentation
Main Building, Room 509, 10:00 am

ACF staff members will demonstrate several popular packages for IBM PCs that enable you to create line and bar graphs, pie charts, etc. Such packages can be useful for the presentation of data and results in reports and papers. A number of these packages are available to users of the ACF’s micro labs.

Special Topics: Data Analysis, Presentation
Graphics, HyperCard, and More
Macintosh Graphics for Data Presentation

Main Building, Room 509, 10:00 am

ACF staff members will demonstrate several popular packages for Apple Macintoshes that enable you to create line and bar graphs, pie charts, etc. Such packages can be useful for the presentation of data and results in reports and papers. A number of these packages are available to ACF staff members.

Categorical Data Analysis

Main Building, Room 509, 10:30 am

A series of six talks on categorical data analysis given by ACF consultant Robert Yaffee. There will be three sessions on theory and three companion sessions on programming.

The first session, Theory of Log-linear Models, will deal with problems with bivariate categorical analysis; advantages of multifactor models; the decomposition of the cross-tabulation into a general linear model; parameter estimation; coefficient interpretation; goodness of fit tests; model building; model selection; problems with log-linear models; sparse data and zero marginals; fixes for problems; and diagnosing the models.

The second session, Programming Log-linear Models with SPSS and SAS, will deal with model building with SPSS and SAS; hierarchical log-linear modeling with SPSS and SAS; and model building and testing of individual parameters.

The third session, Theory of Logistic Analysis, will deal with Logit Models with binary, ordinal, and categorical dependent variables; problems with discriminant and probit analysis; why logit models are preferred; the derivation of the logit models for binary, ordinal, and multinomial dependent variables; estimation of the models; parameter coding and interpretation; goodness of fit tests; model building and selection; and model diagnosis with residuals.

The fourth session, Programming of Logit Models with SPSS, SAS, CDAS, and ANOAS, will deal with Log-linear, PROC LOGISTIC, PROC CATMOD, and other procedures for programming binary, ordinal, and multinomial logit models with these popular statistical packages.

The fifth session, Goodman Association Models, will focus on the Association Models with ordered categorical data; classification of models according to the odds ratios; testing the null, uniform association, row-effects, column effects, row and column effects, and more complicated models; as well as model building and selection.

The final session will deal with the programming of Association Models with SPSS, SAS, ANOAS, and CDAS.

Introduction to HyperCard (I and II)

Main Building, Room 509, 10:00 am

A number of presentations in the NYU colloquia on uses of computers in higher education have featured HyperCard-based courseware developed by faculty and successfully integrated into their curricula (see, for example, pages 2-3 of this Newsletter). CJ Anastasio and other ACF staff members will present a two-part session on the use of this flexible and comparatively easy-to-use authoring software for the Apple Macintosh. These nuts-and-bolts, how-to sessions will be organized around the dissection and re-construction of existing interactive instructional "stacks".

SAS and SPSS Graphics Facilities

Main Building, Room 509, 10:00 am

ACF consultant Bert Holland will discuss and demonstrate the creation of maps using SAS/GRAPH and SPSS Graphics on VAX/VMS and on IBM/CMS. Some examples involving U.S. Bureau of Census TIGER files may be included.

Academic Computing and Networking at NYU, January 1991, page 41
# ACF Tutorials, Workshops and Talks

## January

### Monday

**For further information** on microcomputer workshops, please see page 33; on tutorials, pages 34-35; on talks and seminars, pages 36-41.

### Saturday Tutorials:
- **Karel**: Feb. 2, 9, 16, 23
  - 11 am, 2 pm
- **UNIX**: Jan. 25 - May 15, 3 pm
- **VMS**: Jan. 25 - May 15, 1 pm

See pages 34 - 35 for a complete tutorial schedule and for information on registration and locations.

### Tuesday

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>For other important dates for ACF users — account registration and renewal, holiday schedule, and so on — please see page 32.</td>
<td>for further information on microcomputer workshops, please see page 33; on tutorials, pages 34-35; on talks and seminars, pages 36-41.</td>
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### Wednesday

### Thursday

### Friday

### February

## Monday

### Tuesday

### Wednesday

### Thursday

### Friday

### Academic Computing and Networking at NYU, January 1991, page 42
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<th>TUESDAY</th>
<th>WEDNESDAY</th>
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<tr>
<td><strong>Tutorials:</strong>&lt;br&gt;WordPerfect, 2:30&lt;br&gt;UNIX, 4:30&lt;br&gt;VAX/VMS, 6:30</td>
<td>4&lt;br&gt;Seminar: VMS Topics (III)</td>
<td>5&lt;br&gt;Seminars: WordPerfect Speller &amp; Thesaurus&lt;br&gt;Tutorials: E-MAIL, 4; SPSS/PC, 6</td>
<td>6&lt;br&gt;Workshops: MS Word Intro, 9-11:30&lt;br&gt;Tutorials: MS-DOS, 4</td>
<td>7&lt;br&gt;Workshops: WordPerfect Intro, 9-12&lt;br&gt;WordPerfect Intermed., 1-4&lt;br&gt;Seminar: Categorical Data Analysis I&lt;br&gt;Tutorials: VAX/VMS, 11; UNIX, 12:30</td>
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<td><strong>Tutorials:</strong>&lt;br&gt;WordPerfect, 2:30&lt;br&gt;UNIX, 4:30&lt;br&gt;VAX/VMS, 6:30</td>
<td>11&lt;br&gt;Workshops: MS Word Intro, 9-12&lt;br&gt;WordPerfect Intro, 9-12&lt;br&gt;MS-DOS, 4</td>
<td>12&lt;br&gt;Tutorial: Microsoft Works (PC), 6</td>
<td>13&lt;br&gt;Workshops: WordPerfect Graphics, 9-12; WordPerfect Intro, 1-4&lt;br&gt;Seminars: Categorical Data Analysis II&lt;br&gt;Tutorials: VAX/VMS, 11; UNIX, 12:30</td>
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<td><strong>Tutorials:</strong>&lt;br&gt;WordPerfect, 2:30&lt;br&gt;UNIX, 4:30&lt;br&gt;VAX/VMS, 6:30</td>
<td>18&lt;br&gt;Seminars: Supercomputer Access at NYU</td>
<td>19&lt;br&gt;Seminars: WordPerfect Equation Mode</td>
<td>20&lt;br&gt;Workshops: Excel Spreadsheet, 9-11:30&lt;br&gt;Tutorials: MS-DOS, 4</td>
<td>21&lt;br&gt;Workshops: WordPerfect Intro, 9-12&lt;br&gt;WordPerfect Intermed., 1-4&lt;br&gt;Seminars: Categorical Data Analysis III&lt;br&gt;Tutorials: VAX/VMS, 11; UNIX, 12:30</td>
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<td><strong>Tutorials:</strong>&lt;br&gt;FO!RT!R!AN (I)&lt;br&gt;Tutorials: WordPerfect, 2:30&lt;br&gt;UNIX, 4:30&lt;br&gt;VAX/VMS, 6:30</td>
<td>25&lt;br&gt;Seminars: Diagnosing &amp; Repairing IBM PC; FORTRAN (II); Topics in DISC MAIL&lt;br&gt;Tutorials: MS-DOS, 6:30</td>
<td>26&lt;br&gt;Seminars: Sorting in WordPerfect; FORTRAN (III)&lt;br&gt;Tutorials: Microsoft Works (Mac), 6</td>
<td>27&lt;br&gt;Workshops: MS Word Intro, 9-12&lt;br&gt;Tutorials: UNIX, 4:30&lt;br&gt;VAX/VMS, 6:30</td>
<td>28&lt;br&gt;Workshops: MS Word Intro, 9-12&lt;br&gt;Tutorials: UNIX, 4:30&lt;br&gt;VAX/VMS, 11; UNIX, 12:30</td>
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<td>15&lt;br&gt;Seminars: NCAR Graphics; Mail Merge</td>
<td>16&lt;br&gt;Seminar: Mail Merge</td>
<td>17&lt;br&gt;Tutorials: MS-DOS, 4</td>
<td>18&lt;br&gt;Workshops: WordPerfect Intro, 9-12&lt;br&gt;WordPerfect Intermed., 1-4&lt;br&gt;Seminars: Categorical Data Analysis IV&lt;br&gt;Tutorials: VAX/VMS, 11; UNIX, 12:30</td>
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<td>22&lt;br&gt;Seminars: NYU-NET Nodes; BITNET &amp; BITNET Services&lt;br&gt;Tutorials: MS-DOS, 6:30</td>
<td>23&lt;br&gt;Seminar: Endnotes &amp; Footnotes&lt;br&gt;Tutorials: Microsoft Works (Mac), 6</td>
<td>24&lt;br&gt;Workshops: Graphs; MacPaint, MacDraw and SuperPaint, 9-11:30</td>
<td>25&lt;br&gt;Workshops: WordPerfect Intro, 9-12&lt;br&gt;WordPerfect Graphics, 9-12&lt;br&gt;Seminars: Categorical Data Analysis V&lt;br&gt;Tutorials: VAX/VMS, 11; UNIX, 12:30</td>
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<td><strong>Tutorials:</strong>&lt;br&gt;WordPerfect, 2:30&lt;br&gt;UNIX, 4:30&lt;br&gt;VAX/VMS, 6:30</td>
<td>29&lt;br&gt;Seminar: Accessing Other Library&lt;br&gt;Computer Catalogs via Internet</td>
<td>30&lt;br&gt;Workshops: VAX/VMS, 11; UNIX, 12:30</td>
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Student Registration for Computer Use

Students whose courses are associated with ACF Class Accounts on the VAX/VMS, and VAX/UNIX systems must register for computer use. (Class Accounts on the IBM mainframe computer are obtained for students by their instructor.) To register, students must bring their printed SIS-generated list of Confirmed Scheduled Classes and a valid NYU I.D. to the 14 Washington Place operator's desk, from Jan. 22 to Feb. 11 for the Spring semester (and May 15 to June 3 for Summer Session I) during the following hours:

Mon. - Fri. 9 am - 11 pm

Students in courses using the ACF's Macintosh and IBM personal computers — i.e., students with microcomputer class accounts — must obtain a Microcomputer Access Card. To do so, please bring your SIS-generated list of Confirmed Scheduled Classes and your valid NYU I.D. card to the operator's desk at the Education Building site.

Obtaining Accounts for Your Classes

Instructors, your Fall 1990 classes will each need a computer Class Account if their coursework will require use of the ACF's VAX/VMS, VAX/UNIX, or IBM computer systems. In addition, a class account on the ACF's Macintoshes or IBM PCs will give your students priority access to the computers at the ACF's instructional microcomputer labs. To apply for a Class Account, you must file form #ACF772. A separate application must be submitted for each class and for each type of ACF computer system that you would like your class to use. Each application must include a signature from the department's budget office, as well as a budget number against which the account is to be charged. Blank forms can be picked up in the ACF's Accounts Office (Room 305 Warren Weaver Hall), where your completed form can also be filed. Please call 998-3030 if you need further information.

The ACF Accounts Office cannot establish an account until they have received a properly completed form #ACF772. Once the account is established, your students will be able to register for use of their Class Accounts. Please do not collect your students' class cards or their computer-generated SIS system course lists until they have registered for computer use. Your students will need their class cards or SIS lists in order to register.

Carmen Vasquez, who has recently become the ACF's new Accounts Manager. Ms. Vasquez has worked in the Accounts Office for several years before assuming her new position. She replaces Anna Moore, who has left to pursue an interest in painting.

Photo courtesy of Migdalia Maisonet
**Important ACF Telephone Numbers**

General Information (ACF) 998-3058  
Account Information 998-3035  
Computer Status (recording) 998-3433  
Computer Documentation 998-3036  
Faculty Microcomputer Lab 998-3044  
Tape Librarian 998-3452

Applications Consultants:
- 14 Washington Place 998-3399  
- Tisch Hall 998-3434  
- Education Building 998-3435  
- Warren Weaver Hall 998-3037  
- Third Ave. North Res. Hall 998-3500

Computer Operators:
- 14 Washington Place 998-3457  
- Tisch Hall 998-3409  
- Education Building 998-3421  
- Warren Weaver Hall 998-3456  
- Third Ave. North Res. Hall 998-3504

**Dial-in Access to ACF Computers**

If calling from Dial For (bps)  
NYU 53600* 300 - 2400  
Off Campus 995-3600* 300-2400

*Via NYU-NET, NYU's campus-wide network. (If there is no answer at this number, or if your modem connects but you do not receive the NYUMODEM>> prompt, try any of the following numbers: 995-4331, 4332, or 4333. Please use these numbers only if you experience problems with 995-3600!)

**Hours at ACF Sites**

<table>
<thead>
<tr>
<th>User Work Areas:</th>
<th>Regular Hours</th>
<th>Holiday Hours*</th>
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<tbody>
<tr>
<td>14 Washington Place</td>
<td>8:30 a - 11:30 p 8:30 a - 5:30 p closed</td>
<td>10:30 a - 5:30 p 10:30 a - 5:30 p</td>
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<tr>
<td>Tisch Hall</td>
<td>8:30 a - 11:30 p 8:30 a - 5:30 p closed</td>
<td>10:30 a - 5:30 p 10:30 a - 5:30 p</td>
</tr>
<tr>
<td>Education Building</td>
<td>8:30 a - 11:30 p 8:30 a - 5:30 p closed</td>
<td>10:30 a - 5:30 p 10:30 a - 5:30 p (To be announced)*</td>
</tr>
<tr>
<td>Third Ave. North</td>
<td>10:30 a - 1:30 a 10:30 a - 5:30 p 10:30 a - 5:30 p</td>
<td>closed closed</td>
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</table>

*Consultants:
- 14 Washington Place | 10 a - 9 p | 10:30 a - 5:30 p 10:30 a - 5:30 p |
- Tisch Hall | 9 a - 9 p | 10:30 a - 5:30 p |
- Education Building | 10:30 a - 9 p | 10:30 a - 5:30 p |
- Third Ave. North | 10:30 a - 1:30 a | 10:30 a - 5:30 p |

*A final schedule will be posted via our online news and bulletin board facilities.

Note: The ACF offices in Warren Weaver Hall are closed on University holidays.
Featuring:

- Instructional Computing
- Microcomputers
- Data Analysis and Statistics
- Computing in the Humanities
- From Purchasing Services
- Library Computing
- Computing at the Law School