CONTENTS

Update of ACF Systems, Software, Documentation

CYBER..........................................................page 2
  CDC manuals can be read at your terminal.
  New MAIL facility (RDMAIL and SDMAIL).
  New Tisch printer, editor SENATOR, software tools.
  Operating system upgrade is planned.
  MINITAB, SIR, ENQUIRE, WHATIS, TSS updates.
  Additional notes.

IBM ..............................................................page 7
  BMDP 1983.
  SCRIPT 82.1 is available.
  IMSL, SAS, LISREL VI and PATHDI.
  Additional notes.

VMS/VAX.......................................................page 10
  Editors and statistical software.
  System, device use.
  Network use.
  Notes for EUNICE users; anticipated updates
  and additions.

UNIX/VAX....................................................page 12
  Network notes.
  Text processing (Imagen, TeX).

Of General Interest (All Systems).........................page 13
  Dial-in
  Personal computers
  Graphics

User Services Update.......................................page 15
  Tutorial sessions
  Talks, seminars, lectures

Getting Ready for the Summer Sessions......................page 16
  Class accounts, computer registration, and tutorials
  Additional notes on user services and documentation

Graphics Contribution.......................................page 18
  A Second MICOM Port Selector Will Be Installed........page 20

Academic Computing Facility INFORMATION AND DIRECTORY......page 21
For CDC Cyber Users

CDC Manuals and Other Documents Can Be Read Online Through CONTEXT

Last month, six CDC manuals abruptly became very accessible to each user of the CYBER system at NYU. They were added to CONTEXT, the new NOS Online Manual System. Like other documents already available through CONTEXT, they can be referred to quickly and easily at any hour from any terminal logged in to the CYBER.

What CONTEXT is. CONTEXT is a new facility from CDC for reading and managing online documentation. With CONTEXT, you can peruse a database of manuals, writeups, and other documents, moving about with comparative freedom and ease. You can browse through documents by doing keyword searches, for example; select documents or sections of documents from menus; page forward or backward; jump back to a section you had been reading a little earlier, and so on. To invoke CONTEXT, and access its associated databases of documentation, you type the command "EXPLAIN".

Documents available through CONTEXT. The new package of documents from CDC has meant an important expansion of the CONTEXT database. The CDC manuals newly available online are the NOS Application Programmer's Instant, a manual which explains every NOS command -- including a few that are not locally available; the reference manual for the CYBER Interactive Debug facility; the FORTRAN Version 5 Reference Manual; the Sort/Merge Version 5 Reference Manual; and the reference manual for the CONTEXT online manual system, itself.

Also newly arrived from CDC are abstracts of the printed CDC manuals that are not available in online form, and information on how they can be ordered. Finally, there are a readers' tutorial in the use of CONTEXT and the command "EXPLAIN", and a briefer summary of the terminal commands which the reader uses to select and move about in the online documents.

The ACF has added other documents to the CONTEXT database. These include the PASCAL 6000 Reference Manual and PASCAL Library Information, The Hacker's Dictionary, the beginnings of a glossary of computer terms, and the ACF/NYU Newsletters. They are also accessed by entering the command "EXPLAIN".

How to begin using CONTEXT. If you are unfamiliar with CONTEXT, begin by typing "EXPLAIN" and then pressing RETURN. This will bring you its "main menu". If you have never used a system like CONTEXT before, select the first item on the menu ("How to Use this Manual"). You will receive a menu of HELP material from which you should probably select the "Tutorial on Reading this Manual". If you are experienced with online documentation systems, you might prefer to skip the tutorial and go directly to the document(s) of interest. If you run into trouble, typing "HELP" will bring you a summary of readers' terminal commands and, if you like, the readers' tutorial.

Many of the selections offered you in the "main menu" will actually lead you to other menus of documents. As you explore these menus, you will notice that each document has a "filename" listed next to it. Once you become more expert with CONTEXT, you may wish to use these filenames as parameters to the "EXPLAIN" command. In this way, you can bypass the "main menu" and one or more additional
levels of the online manual system. To do this you invoke CONTEXT by typing "EXPLAIN,M=filename", replacing "filename" with the filename of the document of interest.

Local Mail Facilities RDMAIL and SDMAIL Are Available on the CYBER

A first release of a new, locally produced, electronic mail facility has become available on the CYBER. It is modeled after the local mailer programs RDMAIL and SDMAIL, familiar to users of the VMS/VAX systems at NYU. Electronic mailers are programs which enable you to send and receive memos, via computer, to and from other computer users. SDMAIL is used only for sending mail, while RDMAIL allows you to read and to send mail, as well. Together, they form the new MAILER.

What the MAILER does. The MAILER has a number of attractive features. For example, you can use an editor to compose your messages; you can input a permanent or a local file and send it as mail; you can send mail to all individuals on a list; and you can save the mail you have received and scan it at a later time, searching by such criteria as topic, sender, or date. At some time in the future, it may enable the reception of mail from users on other computer systems at NYU.

The CYBER version of the MAILER is still at a somewhat experimental stage: a few of its options have not yet been implemented — among these, a VMS-like BBOARD (or "bulletin board") facility. It has been receiving fairly wide use by staff and a proportion of faculty and students, however, and has been performing well.

Beginning to use the MAILER. To invoke the MAILER, type "RDMAIL" or "SDMAIL". The very first time that you invoke RDMAIL, you will receive an introductory message. You will also be prompted for information: the editor you would like to use, the way you would like your name to appear on your messages, and so on. Responding to any of these prompts with a question mark (?) will bring you an explanation and HELP. In fact, at any time, typing a question mark and pressing RETURN will bring you the MAILER's internal HELP. The internal HELP is "tiered", so that you will receive different sets of information depending upon the mailing function which you happen to be attempting at the time that you request help.

A user's guide to RDMAIL and SDMAIL is in preparation. It should be ready within the next month or so. We will announce its availability in the online "CYBER News".

Other New Facilities and Software

Tisch Hall has an upper-and-lower case line printer. There is now a high speed printer with mixed-case capability at the ACF's Tisch Hall site. The Tisch Hall printer is intended for CYBER users whose output folders are at the Tisch Hall site. There has been a line printer with mixed-case capabilities at Warren Weaver Hall for some time.

Upper-and-lower case files have to be transformed before they are sent to a line printer. Instructions can be found in the ACF writeup "QLCASE". (For instructions on obtaining an ACF CYBER writeup, see page 6 of this Newsletter.)
Update on the CYBER System

Text editor SENATOR Version 2.5 is available. SENATOR is an interactive text editor from Temple University. It is considered an especially attractive editor for students. It provides an editing environment from which jobs can be submitted, and output examined, directly -- that is, without having to exit from the editor. In this sense it is very like a specially tailored " subsystem" on the CYBER or comparable to the WYLBUR system on IBM machines. SENATOR also has an extensive internal HELP facility. To invoke SENATOR, simply type " SENATOR", followed by a RETURN. Copies of a 71-page guide to SENATOR are available on a limited basis in Room 305 Warren Weaver Hall.

SENATOR gives access to a new and varied set of software tools from CDC. SES, CDC's Software Engineering System, is a set of procedures. They are the means by which you use a new collection of software tools from CDC. These are interrelated tools which can be used to manage source and object code, generate documents, manage files, and manipulate text. For example, SES procedures can help you reformat FORTRAN 77 source code; use one of several document formatters; find spelling errors in a text file; convert all lower-case characters to upper-case (and vice versa); merge up to five files into one file on a columnar basis; split files apart by columns; compare text files, reporting their differences; copy selected lines from a file; find patterns in a file; change lines that match specified patterns; transliterate characters in a file. There are source and object code utilities for the generation and maintenance of large software projects; at present these are for use only with direct access files.

The tools can be used interactively or in batch jobs. Each procedure has an online HELP which provides a short summary of the functions of the tools which it invokes, and of its own syntax and parameters. Aside from SES's HELP screens, documentation consists of CDC's SES User's Handbook. Copies will be placed in the ACF reference racks within the coming weeks. For an entry on SES in the online document " A CYBER Glossary", type " EXPLAIN,M=GLOSS". Then, once inside the manual, type " SES? " and press RETURN.

SES procedures can be used with files in any of the three character sets that NOS provides, but they are intended primarily for use with 6/12 ASCII. We recommend, therefore, that you put your terminal in ASCII mode (by typing the NOS command " ASCII") before invoking SES; then, when you have finished your SES application, return your terminal to the mode in which it was operating previously (for most users, this will mean entering the command "NORMAL").

Operating System Will Be Upgraded To Version 2.2 By Fall

We now plan to upgrade the CYBER's operating system, NOS, to Version 2.2 by the beginning of the fall semester, and quite possibly several months sooner. The upgrade might take place as early as the interval between the spring semester and summer sessions, if demands on the system and our staff are not too heavy at that time.

The upgrade to NOS 2.2 was first announced in the December issue of the ACF/NYU Newsletter, when it was scheduled tentatively for the interval between the fall and spring semesters. Because the upgrade could not be effected at that time, and to avoid any possible disruption of coursework, it was postponed until after the spring semester.
Update on the CYBER System

New features will include personal archiver and additional terminal support for screen editing. NOS Version 2.2 will bring a number of new facilities and features. We described a few of these in the last issue of the Newsletter, but did not have space to mention them all. Among the features we omitted is the RECLAIM facility. This is a personal archiver for users of large sets of permanent files; direct access file privileges are needed to use it. Also coming with NOS 2.2 is CDC's support of screen editing on additional types of terminals. CDC will support FSE, the CYBER's new full screen editor, on ADM3a, ADM5 and Tektronix 4115 terminals. (Currently, FSE is supported on Zenith Z19 and Z29 terminals, on DEC VT100s, on CDC 721's, or on terminals which can emulate one of these.)

New capabilities for programming and for formatting output. With NOS 2.2, for the first time, users' programs will be able to test for the presence of input without reading the terminal. That is, it will be possible for a program to check the type-ahead buffer. This will be very convenient for implementing protocols that have timeout periods. For example, an instructor or researcher might design some kind of interactive quiz or response form, and wish to control the amount of time that the student or experimental subject was given to make a response.

Another convenient feature for programmers under NOS 2.2 is that it will be possible to design programs so that they can detach themselves from the terminal. (Users can do that now, but not programs.) Also, you will be able to have your job set the print density, page-length, and page-width of its output file or files. One benefit is that, for all of the CDC compilers and many of the utilities from CDC, you will be able to make your output print in an 8 1/2 by 11 inch format. (The PASCAL compiler currently on the CYBER is not a CDC product. It may be possible to make it obey these new output formatting parameters, however.)

HELP facility will access HELPME and online manuals. There will be important changes in the HELP facility. The HELP program will be completely replaced by two products introduced under NOS 2. The first is HELPME, the utility which can "hand-hold" you through the syntax and parameters of a command, and then execute it for you, if you like. HELPME, and its underlying library HELPLIB, have been expanded so that they now include every command offered by CDC. The second product is the NOS Application Programmer's Instant (or "COMMAND"), one of the six CDC manuals offered by the recently arrived NOS Online Manual System. HELP will search the manual in response to your query, and find the appropriate section for you. (See the item on CONTEXT for more about online manuals.)

Updates to Statistical Software

MINITAB updates. MINITAB Version 81.1 has been re-installed, thus removing a spurious message ("This release is obsolete") which would be displayed each time MINITAB was invoked. The re-installation of MINITAB 81.1 also corrected some problems which appear to have been connected with an upgrade of the CYBER's operating system. The University of Washington is working on a CYBER version of MINITAB 82.1. It is expected sometime in late spring or early summer.

SIR Version 1 will be removed September 1; Version 2 has been updated to 2.1.2. SIR users must convert any databases created under SIR Version 1 as soon as possible. Version 1.1 M of SIR ("Scientific Information Retrieval" system) will be available only until September 1, 1984 when it will be removed from the CYBER system. It is no longer supported by SIR, Inc. and has been superseded by SIR.
Version 2. Conversion material is available to assist you in converting the Version 1 databases to Version 2. Contact Ed Friedman (460-7291) or Frank LoPresti (598-2993) if you need help.

Version 2.1.2 is now the default version of SIR 2. It is invoked by entering: "OBTAIN,SIR2", followed by the usual SIR control statement and its parameters. Version 2.1.2 is made up of four parts: SIR DBMS, SIR EDITOR, SIRHELP, and SIR FORMS.

"ENQUIRE", WHATIS, and TSS Are Updated

"ENQUIRE,UIN" and "ENQUIRE,JSN" now give information on job timeout. A local modification has been made to the display which you receive upon typing either "ENQUIRE,UIN" or "ENQUIRE,JSN". It now includes the amount of time that you have before a "recoverable job" will be discarded by the system.

Recoverable jobs include detached jobs; interactive sessions which have been terminated automatically by the system (usually after a user has failed to enter any input for ten minutes); and sessions interrupted by a system or communications difficulty. To recover one of these jobs, you type "RECOVER,JSN", replacing "JSN" with the JSN of the job you wish to recover.

WHATIS database now includes FTN and FTN5. WHATIS, the locally produced program which gives you online explanations of error messages, will now help you with FTN and FTN5. For a description of WHATIS and instructions on its use, type "WHATIS", and strike the RETURN key. For a list of the software covered by WHATIS, type "WHATIS,INDEX", instead.

Automatic archiver of direct access files, TSS, is working again. TSS, a subsystem for the automatic archiving of direct access files, is working once again. TSS reviews the activity of all direct access files and stores the less active ones on tape. To retrieve a direct access file which TSS has archived to tape, you simply enter the customary "ATTACH" command. For more about TSS, see the entry on TSS in the online document "A CYBER Glossary". To access the Glossary, type "EXPLAIN,M=GLOSS", then, once inside the manual, type "TSS?" and press RETURN.

Additional Notes

Long-inactive indirect access files of users in the ACF "family" were archived to tape. To alleviate a shortage of space on the "ACF Family" disk, all indirect access permanent files that had not been accessed since September 1, 1983, were archived to tape and removed from the ACF disk on January 16, 1984. If you owned one of these long-inactive files and need it, please contact the ACF Accounts Office at 460-7427. (Indirect access files are those permanent files which you access by means of the "GET" or "OLD" commands.)

How to obtain a copy of an ACF writeup for CYBER users. To view a CYBER writeup at your terminal, type "OBTAIN,WRITEUP=docname"; for a paper-printed copy, type "OBTAIN,WRITEUP=docname,L=DOCCOP", then "ROUTE,DOCCOP,TID=WHH,DC=PR". Replace "docname" with the document's ACF Document Name (e.g., "IMSL", "QMAIL"), and "WHH" with "TH" if your output folder is at Tisch Hall. Printed copies of many ACF writeups are also available in Rooms 306 and 307 Warren Weaver Hall and LC-8 Tisch Hall, and at the Operator's Desk at the ACF's 14 Washington Place site. (Note: Some ACF documents now reside in the NOS Online Manual System, CONTEXT. They are accessed by entering the command "EXPLAIN". For more information, see the first item in this issue of the Newsletter.)
FOR IBM WILBUR USERS

BMDP 1983 Will Soon Be the Default

The 1983 version of BMDP (Biomedical Computer Programs P-Series) will shortly be made the default version in place of the 1982 version. There are several useful improvements in the new version of BMDP.

Macro facility. There is a "macro"-type facility that will produce multiple versions of an instruction or of a set of instructions. A simple example would be

```FOR K = 5 TO 20.
% X(K) = LOG(X(K)). %
which would produce
X(5) = LOG(X(5)).
X(6) = LOG(X(6)).
```

A program can contain an instruction to incorporate into a current run a set of BMDP instructions stored in an external file.

Transformation statements. An extensive set of new transformation statements has been added. Twenty-five of these are summary functions -- for example, MIN(v), MAX(v), SUM(v), MEAN(v), SD(v) -- where v is a list of variables, and summary values are created for each case. Also available are R(v1,v2), B(v1,v2), A(v1,v2) where, for example, the R is the Pearson correlation of v1 values with v2 values for each case. Other functions permit the manipulation of dates, replacement of missing values using linear interpolation, and so on.

Other changes. Other changes include new features in BMDP4V, 1T, 3M, 3R, and AR, a new stepwise regression feature in 2R, new options in the SAVE paragraph, and new default values in LR. These changes are described in recent issues of BMDP Communications, particularly the issues that have appeared since May, 1982. They are also documented in the output produced by each program when "NEWS." is specified in the "/PRINT" paragraph.

SCRIPT Update

SCRIPT Version 82.1, currently available as SCRIPT#, will become the default. The new catalogued JCL procedures (or "procs") SCRFINAL, SCRIPT#, SCRIPTMN, and SCRROUGH, all invoke Version 82.1 of SCRIPT, the text formatter from the University of Waterloo. We expect the differences between the previous and new versions of SCRIPT to give our users no difficulty. SCRIPT 82.1 will replace an older version of SCRIPT, 79.1, as the local default version in about a month. Until that time, the proc SCRIPT will continue to access the older SCRIPT, and SCRIPT# will access SCRIPT 82.1. Once 82.1 is made the local default, access to the older and newer versions of SCRIPT will be switched: the proc SCRIPT will access Version 82.1, and SCRIPT# will access the earlier version of SCRIPT.

SCRROUGH and SCRFINAL. Instead of SCRIPT#, users may prefer to use SCRROUGH and SCRFINAL, two procedures originating at NYU which can be used to produce rough and final copies of SCRIPT-formatted output. Each invokes the SCRIPT formatter,
but is simpler to use. They take as input drafts contained in WYLBUR files in edit or card format, or members of a library. They are designed for users with comparatively light backgrounds in computing. SCRROUGH produces upper-case-translated output on our regular rainbow paper; the numbers of the corresponding lines in the input file are displayed in column 100. SCRFINAL produces a final draft with upper-and-lower case output on 8 1/2 by 11-inch white paper (the forms code 3205). For example:

```java
// JOB
// EXEC SCRROUGH, GROUP=GG, USER=UUU, DRAFTNM='LIB(DDD)'
```

will "SCRIPT" a rough draft of the member DDD in the LIB of WYLBUR USERID GGUUU. If the JCL proc SCRFINAL instead of SCRROUGH were used in the above, then a final draft would be "SCRIPTed" on 8 1/2 by 11-inch white paper.

**SCRIPT documentation.** The proc SCRIPTMN is intended for the formatting of the various SCRIPT documentation files. These documents are also online and can be printed on 8 1/2 by 11-inch white paper by using the JCL proc MANUALS, as in the following job:

```java
// JOB
// EXEC MANUALS, NAME=XXXXXXXX, FORMS=3205
// SYSUT2 DD DCE=(RECFM=VBA, LRECL=85, BLKSIZE=19044)
```

where XXXXXXXX can be any of the following abbreviations. Only the first five of the following manuals, however, are of interest to the general SCRIPT user.

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Title</th>
<th>Approximate no. of lines</th>
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<tbody>
<tr>
<td>1) SCRIPTRF</td>
<td>The SCRIPT Reference Manual</td>
<td>12,000</td>
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<tr>
<td>2) SCRIPTCD</td>
<td>SCRIPT Reference Card</td>
<td>1,550</td>
</tr>
<tr>
<td>3) SCRIPTUG</td>
<td>SCRIPT User's Guide</td>
<td>6,000</td>
</tr>
<tr>
<td>4) SYSPAPUG</td>
<td>SYSPAPER User's Guide</td>
<td>1,400</td>
</tr>
<tr>
<td>5) SYSPUBMN</td>
<td>SYSPUB User's Guide</td>
<td>3,075</td>
</tr>
<tr>
<td>6) GMLUG</td>
<td>UW GML User's Guide</td>
<td>2,625</td>
</tr>
<tr>
<td>7) SCR6670</td>
<td>SCRIPT and the 6670</td>
<td>1,425</td>
</tr>
<tr>
<td>8) YCC6670</td>
<td>SCRIPT and the 6670 at the Yale</td>
<td>1,475</td>
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<td></td>
<td>Computing Center</td>
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<tr>
<td>9) SCRIPTSO</td>
<td>SCRIPT and the MVS/TSO Environment</td>
<td>3,000</td>
</tr>
<tr>
<td>10) SCRIPTIG</td>
<td>SCRIPT Implementation Guide</td>
<td>3,350</td>
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The following documents pertain to facilities or hardware NOT available at NYU.

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<td>SCRIPT Implementation Guide</td>
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**Other Recent Additions and Updates**

**IMSL update corrects errors affecting several subroutines.** IMSL, a library of 512 subroutines for statistical and mathematical applications, has been updated from Version 9.0 to 9.1 to correct some discovered errors. Subroutines BESTA2, DVCPS, GGAMR, ICHSE, MDBETA, MBBSIR, NAFRE, RLFOR, RSMITZ, SSRBLK, and ZX3LP may now give different results under some conditions. Version 9.1 has replaced 9.0 in all the FORTRAN procs.
SAS has been updated. SAS (Statistical Analysis System) is being updated from Version 82.3 to 82.4. There are no major changes in this new version, but about 100 problems -- most of them fairly small but not trivial -- have been fixed. The update should be essentially transparent to most users.

LISREL VI to be made the default version. As soon as testing is completed, LISREL VI will replace LISREL V as the default version invoked with the instruction, "// EXEC LISREL". LISREL V will be made the backup version, and LISREL IV will be removed from the system.

In Version VI, parameter estimates can be obtained by the methods of instrumental variables, two-stage least squares and generalized least squares (in addition to the maximum likelihood and unweighted least squares estimates available in earlier versions of LISREL). Expanded input, plotting, and labeling capabilities are also available, and in many cases computing time is reduced. All Version V input can run in LISREL VI, except that the OB parameter on the OU card is no longer available.

PATHDI prints LISREL path diagrams, calculates effects. A program called PATHDI, written by Huba and Palisoc, has been made available to us by Professor Jeffrey Tanaka of GSAS' Psychology Department. PATHDI takes the output of LISREL (Analysis of Linear Structural Relationships by the Method of Maximum Likelihood) as its input. It produces printer diagrams of the path models, and calculates direct, indirect, and total effects in the structural equation models. Instructions for the use of PATHDI are available in Room LC-7 Tisch Hall. (The published reference is Huba, G.J., and Palisoc, A.L., Computerized path diagrams on a line printer. Computational statistics and data analysis, 1983, 1, 137-140.) PATHDI can be run with the following JCL:

```
// JOB
// EXEC PATHDI
//SYSIN DD *
  data
//
```

Additional Notes

Job class when a job requires a tape mount. The IBM Systems Staff has issued a reminder that "CLASS=M" should be used for jobs that need a single tape mount and that run in three minutes or less. Jobs calling for more than one tape drive, or running with tape for more than three minutes, should be run in Class I. If submitted as Class M such jobs will not be run.

WYLBUR users can communicate with consultants via "HELP REPORT". The WYLBUR system has a new facility for reporting problems. The command, "HELP REPORT" enables a user to send a message to the consultants, who check the file daily and will try to answer questions and furnish solutions to problems.

[NOTE: All items in the IBM update section were submitted by ACF staff member Bert Holland, except for the item on SCRIPT, which was prepared by John Hailu, also of the ACF.]
Editors and Statistical Packages

DEC plans to end support of SOS; Users of SOS should seek another editor. DEC plans to discontinue support of the line editor SOS in about two or three months. Once DEC has withdrawn its support of SOS, that editor will no longer be generally available on the NYU computer systems.

Users of SOS should begin immediately to make a transition to another editor. If you need help in making this transition, or have any other difficulty related to this change, please contact an ACF consultant in Room 307 Warren Weaver Hall or LC-7 Tisch Hall.

TEDI users must change a statement in their LOGIN.COM files. If you are a TEDI user who sends files to the line printer, you must make the following change to your LOGIN.COM file. Change the line reading "$ASSIGN LP: TEDI$PRINT" to read "$ASSIGN DEFAULT_PRINTER: TEDI$PRINT".

SPSS-X, SCSS, MINITAB, SAS, SAS/GRAFP, and NCAR are now available on ACF3. Several statistical and graphics packages have been installed on ACF3. These include "production" (fully tested) versions of SPSS-X (Statistical Package for the Social Sciences, X Version, Release 1.1); MINITAB 82.1, and SCSS (an interactive statistical package from SPSS). Production versions of SAS (Statistical Analysis System, Release 4.06) and its associated plotting package SAS/GRAFP have also been installed. To invoke any of these packages, you type its name (e.g., "SPSSX"). MINITAB has an internal HELP: invoke MINITAB and then type "NEWS" to learn about it. Information on SPSS-X, MINITAB, and SAS will be added to the online HELP within the coming month; there already is an entry for SCSS. SPSS-X, MINITAB, and SCSS were installed some time ago on ACF1, where they are already documented in the online HELP.

In addition to these four statistical packages, the graphics system NCAR can now be used on ACF3. It has been available on ACF1 and CMCL1 for some time. Type "HELP GRAPHICS NCAR" for more information.

Tips for Successful Use of System, Devices

Begin LOGIN.COM files with "$ If F$Mode() .eqs. "NETWORK" then $ exit". Unless your LOGIN.COM file begins with a line of the form

$ If F$Mode() .eqs. "NETWORK" then $ exit

your entire login file will be executed every time you issue a command which starts up a network process. (Two examples are requesting FINGER information on another node, or sending MAIL to a user on another machine.) The extra time will usually cause the network process' timer to run out, and your job to fail. If you have more than one account on a VMS system, each associated LOGIN.COM file should start with the line given at the beginning of this item.

Change in names for printer queues. Some of our printers are shared by several different types of systems. We are working toward establishing a standard set of names for the queues to the printers, names that can be consistent across computer systems. In this way, the print queues for a given printer will have the same name on each computer system which uses it.
The standard names (and the printers to which they refer) are WWIL318 (Warren Weaver Hall, Room 318), WWIL426 (Warren Weaver Hall, Room 426), LC_8 (Tisch Hall, Room LC-8), 715E_12 (715 Broadway, 12th floor). Please check your command files to make sure that they refer to these printers by their standard names only.

**Default system printer is now SYS$PRINT or DEFAULT_PRINTER.** As part of a restructuring of our data communications facilities, the default system printer was moved. If you had been using "LPA0", you should have replaced it either with the generic queue name "SYS$PRINT" or the logical queue name "DEFAULT_PRINTER". You should use the latter for those applications which require you to open an output file explicitly on the default printing device. (As a general rule, use "DEFAULT_PRINTER" if you had to specify "LPA0" -- that is, if your job required that you explicitly designate a printer.)

**Logical device names should be used instead of explicit ones.** Using explicit device names in your commands can lead to trouble. It means that, when we restructure hardware or make other reconfigurations or changes, your job may fail simply because the device it requests has been replaced. (See the item preceding this one for an example.) Use logical or generic names, instead.

Logical device names should be used more or less as a matter of course. The VMS command "SHOW LOGICAL DISK$/SYSTEM" will give you a list of all logical disk names; this will be rather a long list, since there is often more than one logical disk for one given physical disk. The command "SHOW QUEUE /DEVICES" will bring you a list of the generic and logical names for printers supported by your system.

**Network Notes**

All VMS machines are now on the ETHERNET. Version 3.4 of VMS added support for DEUNA (DEC ETHERNET (Unibus) Network Adaptor). We are using ETHERNET on nearly all VAX machines at NYU to provide local area network support. For example, ETHERNET is being used to facilitate communication with the UNIX machines (see the item in the UNIX/VAX Update section).

**Remote file access enhancements for VAX-11 RMS and VAX-11 FAL.** VMS/VAX Version 3.4 contains a patch to VAX-11 RMS and a new VAX-11 FAL image that will greatly improve the success with which files are copied across DECnet and permit access in record mode to larger records.

The enhancements include optimizations of block I/O file transfer which increase data throughput, reduce disk contention, and decrease CPU usage for both the local and remote processes. There will also be increased record I/O file transfer performance and increased maximum record size for network access (from 512 bytes to 4096 bytes).

**Other Notes**

PL/I Version 1.4 and FORTRAN 3.5 are installed. These were maintenance updates. A list of errata in the PL/I manual arrived with the update: type "HELP PL/I ERRATA". For information on minor bugs fixed by FORTRAN 3.5, enter "TYPE NYU$AIDS:FORTRAN3.5".

For users of EUNICE. Two ACF documents which have recently become available will interest current and potential users of the UNIX-like shell, EUNICE.
"EUNICE for Beginners" will help get you started using EUNICE on the NYU VMS systems, and point you toward documentation of UNIX. "Using the Imagen Printer" introduces our laser printer and the software available for it at NYU. Single copies of either document are available in Rooms 306 and 307 Warren Weaver Hall.

EUNICE users should also refer to the items on TeX and ETHERNET in the UNIX Update section of this issue of the Newsletter (below).

Some anticipated updates and new facilities. TeX 82, the word processing and computer typesetting system of programs, is being tested on the VMS machines at NYU. Version 2 of the VAX-11 PL/I compiler is expected within the month. Version 2 will be a complete replacement of the PL/I compiler. Watch BBOARD for an announcement of its installation and for information on the documents describing it.

FOR UNIX/VAX USERS

Networks

UNIX machines have ETHERNET. All UNIX machines at NYU, except CSD1, are now on the ETHERNET, a high-speed local area network. Among other benefits, this will speed file transfer and the sharing of resources among machines. Electronic mail between VMS and UNIX machines will also be transferred more quickly by ETHERNET than by UUCP, the network we had been using previously for intersystem mail.

ACF1 is now on ETHERNET. Users with network privileges will be able to transfer files between UNIX and VMS machines at NYU more easily now that ACF1, a VMS machine, has been added to ETHERNET. Formerly, connections between the two types of systems were possible only via the UUCP network or by means of magnetic tape. (Use of ETHERNET and UUCP is restricted to users with "network privileges", however. Those without network privileges may use magnetic tape, should it become necessary to transfer files between the two types of machines.)

Text Processing

ACF document, "Using the Imagen Printer", is newly available. A new ACF document introduces the use of our Imagen printer, and the software available for it at NYU. The Imagen is a laser printer currently accessible to users of any of the UNIX/VAX systems, or to VMS/VAX users from within the EUNICE shell. Single copies of the twelve-page document can be obtained in Rooms 306 and 307 Warren Weaver Hall.

TeX is available at NYU. TeX, Don Knuth's system of computer typesetting programs, has been installed at NYU and is ready for use with the Imagen printer. TeX software is available and can be used on any UNIX/VAX machine. It is being tested for use, from within a EUNICE shell, on VMS/VAX machines at NYU. For more about TeX, see the ACF document, "Using the Imagen Printer", described in the item preceding this one.
FOR DATA GENERAL USERS

AOS/VS COBOL Version 7, and Version 2.2 of AOS/VS PL/I and of INFOS, the AOS/VS record manager — along with their associated libraries and facilities — were loaded into the system in February and brought on line. System usage has not been sufficient as yet to judge their performance, however.

Some of the facilities and options that these new software packages provide are not fully available yet at NYU, since the complete installation of the software would have interfered with "production" use of the machine. We hope to install these products completely at some time over the summer, when system usage is expected to slow down.

OF GENERAL INTEREST TO USERS OF ACF SYSTEMS

(There is also an item about a new MICOM port selector on page 20.)

For Dial-In Users of the ACF/NYU Systems

Dial-ins to 4141 can now also be at 1200 bps. Dial-in users on the 598 switchboard no longer need to make an outside call to get a 1200 bps line. Now, dialling 4141 from a 598 exchange will access a line capable of handling dial-ins at 110, 300, or 1200 bps. Please use 7001 if you are dialling from a 598 number and only need a 110 or 300 bps line. This will help avoid unnecessary tie-ups of the higher-speed lines to 4141.

The numbers 4141 and 7001 should be used only if you are dialling from within the University and from a number that begins with 598. If you are dialling from outside the University, use 777-7600, instead: lines to that number also support 110, 300, and 1200 bps dial-ins.

If you dial in to 777-7600 and receive no reply. If you try to access an NYU computer system through the number 777-7600 and receive no reply, try dialling 777-7880, instead. Use this alternate number ONLY if 777-7600 has failed to answer. If 777-7600 has returned a busy signal, you will connect to your system more quickly by simply dialling it again.

New writeup "DATACOM" on setting up terminals or PCs for dial-in. See the item in the next section for details.

Personal Computers

New writeup on setting up terminals or PCs for dial-in to NYU computer systems. A new ACF writeup, "DATACOM", is aimed at users who are interested in working from home via a terminal or personal computer. It will help you to set up your modem and your terminal or personal computer so that you can dial in to the NYU system on which you have an account. "DATACOM" also includes an annotated list of popular terminal emulation packages, and suggestions as to whom you should consult for different kinds of help and advice.
You can obtain a copy of "DATACOM" from the ACF consultants in Room LC-7 Tisch Hall, or in Rooms 306 or 307 Warren Weaver Hall. On a VMS/VAX system, you can print your own copy by typing "PRINT NYU$AIDS:DATACOM". (To view the writeup at your terminal, replace "PRINT" with "TYPE".) CYBER users can print their own copies by typing "GET,DATA$COM/UN:WRITEUP" and then "ROUTE,DATA$COM,EC=A6,TC=NN". (Replace "NN" with the number of a convenient terminal cluster printer.)

**New personal computer service for NYU faculty is offered by the ACF.** This coming fall, the ACF will be opening a microcomputer laboratory for faculty and research staff in all disciplines at NYU. The new service is intended to help meet the growing need for information and advice concerning the purchase and use of microcomputers.

Visitors to the laboratory will be able to examine and experiment with several popular personal computers and related products. These will include peripheral devices, such as printers and modems, as well as software for word processing, data base management, communications, and so on. There will also be a modest library of periodicals, books, and other printed information on new personal computer products.

The laboratory will be located on the third floor of Warren Weaver Hall. Consultation and advice will be provided, along with some technical support in diagnosing hardware problems encountered by faculty when using their personal computers.

While the laboratory and library will not open until the beginning of the Fall 1984 semester, ADVICE ON MICROCOMPUTERS IS AVAILABLE NOW. For information on products and product use, faculty should call Gary Chapman at 460-7160. Questions and comments regarding the ACF's policy and directions in personal computing can be addressed to Ed Franceschini at 460-7291.

**For Users of Graphics Software**

NCAR is now on ACF3. NCAR, the system of graphics software from the National Center for Atmospheric Research, can now be used on ACF3; type "HELP GRAPHICS NCAR" for more information. NCAR has been available on two other VMS/VAX machines, ACF1 and CMCL1, and on the CYBER system, for some time.

**An ACF user's guide.** The ACF writeup "User's Guide to Applications Graphics at NYU" became available in the past few months. The writeup is intended for users of graphics packages and libraries on the CYBER and VMS systems at NYU. It includes information on the NCAR graphics system, as well as DIMFILM and ARTSPEAK. Also discussed are graphics output devices, software tools, and relocatable libraries on the various systems at NYU. Copies can be obtained in Rooms 306 and 307 Warren Weaver Hall and LC-7 Tisch Hall.

SAS graphics software on ACF3. A production version of SAS/GRAPH has been installed on ACF3, one of our VMS/VAX machines. SAS/GRAPH is the system of graphics and plotting routines which accompany SAS (Statistical Analysis System). Information on SAS and SAS/GRAPH will be added to the HELP library on ACF3 within the coming month.
UPDATE OF ACF USER SERVICES

Tutorial Sessions

CYBER tutorial sessions. "Walk-in" tutorials in the use of the CYBER time-sharing system and in the text editor XEDIT were given during February and March, Mondays, Wednesdays, and Fridays, at the ACF's 14 Washington Place site (one flight down from street level). The summer session schedule for CYBER tutorials will be posted in the online "CYBER News", and on the bulletin boards at all ACF sites.

Specially arranged tutorials. Faculty can arrange tutorials specially for their classes. Call Nancy Causewitz (598-7851) if your class is using IBM WIDJET; to arrange tutorials on the CYBER or VAX machines, call Frank LoPresti (598-2993).

Tutorials in the use of any ACF system can also be arranged for small groups of faculty and staff: call Frank LoPresti (598-2993).

IBM WIDJET tutorials. Copies of the summer schedule of WIDJET tutorials will be posted on the bulletin boards at Tisch Hall. In the spring semester, tutorials in IBM WIDJET were offered during the weeks of January 30 through March 5 on Mondays and Thursdays at 5:30 and 6:30 p.m. in Room LC-8 Tisch Hall.

ACF Talks, Seminars, Lectures

Introductory WIDJET lectures. During the weeks of February 3 through March 9, introductory level lectures in the use of the IBM WIDJET system were offered on Friday evenings. A schedule of WIDJET lectures is being arranged for the summer sessions. It will be posted at the ACF site at Tisch Hall.

ACF Talks and Seminars. During the spring semester, the ACF scheduled a series of twelve "ACF Talks". The talks were hosted by the ACF's Frank LoPresti, and nearly all of the speakers were ACF staff members. Stephen Tihor gave three talks on VMS: "Getting Started" (Parts 1 and 2) and "Special Topics". Lou Salkind gave an introductory lecture on the UNIX system at NYU and in another session, discussed "Special Topics" in UNIX. Eugene Rodolphe spoke on PASCAL, with special emphasis on differences in running PASCAL programs on the CYBER system. In another talk, Ed Friedman discussed graphics applications at NYU, with emphasis on "The System Plot Package" from NCAR. There was a three-part series on text processing at NYU, with some discussion of the electronic office in an academic environment. Participants in the text processing discussions included ACF staff members Ed Friedman, Bill Russell, Lou Salkind, George Sharrard, and Stephen Tihor, and guest speakers Geoffrey Bary, Alex Garrison, and Asher Meth. Bill Russell and Stephen Tihor spoke on networks at NYU. In the final talk of the series, ACF staff members will discuss micros. Like most of this semester's ACF talks, it will take place on a Thursday (May 3) at 3 p.m. in Room 1302 Warren Weaver Hall.

In addition to the series of ACF Talks, various ACF staff members gave special talks, upon request, targeted toward specific groups or classes.

No ACF seminars are scheduled for the summer. However, introductory lectures for new users of the VMS/VAX and UNIX/VAX systems will be given. Lecture times will be announced in the online news and bulletin board facilities, and posted
at all ACF sites. The lectures will be hosted by Frank LoPresti; contact him for information at 598-2993.

* * *

FOR INSTRUCTORS: GETTING READY FOR THE SUMMER SESSIONS

Class Accounts, Computer Registration, and Tutorials

Most student Class Accounts will expire May 20 (May 25 for WIDJET). Spring semester class accounts on all systems except WIDJET will expire on May 20, unless the course instructor has made special arrangements with the ACF Accounts Office. Students who will need their class accounts after May 20 in order to remove an Incomplete must file form ACF775; the instructor's signature is required on the form. Blank forms can be obtained in the ACF Accounts Office, Room 305 Warren Weaver Hall.

IBM WIDJET accounts will expire on May 25. Any student who will need to use WIDJET to remove an Incomplete must apply for a new WIDJET account. To do this, the student must file form ACF775 along with a letter from his or her department requesting the new WIDJET account.

Students who wish to save their files after their WIDJET accounts expire must have them punched on cards before their accounts expire.

Instructors must apply for summer "Class Accounts". Your class will need an ACF account if you will be teaching a course which will require computer work on the CYBER, VMS/VAX, UNIX/VAX, IBM or HP systems. Please file form ACF772 as early as possible to apply for a Class Account. A separate application must be submitted for each class, and each application must include the signature of your department's chairman, as well as a budget number against which the account is to be charged. Your department secretary should have blank forms; if not, they can be picked up in Room 305 Warren Weaver Hall. Call 460-7427 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 until they have registered for computer use: your students will need their class cards in order to register.

If you are teaching a course which involves computer work, please urge your students to register early -- whether or not they actually will begin to use the computer immediately. When, where and how your students register will depend on the computer system being used and the summer session during which the course is to be given.

Student registration for Class Accounts on the CYBER, VMS/VAX, and UNIX/VAX systems will take place at the ACF's 14 Washington Place site from May 24 through June 9. There will be additional two-week registration periods at the beginning of each summer session, as needed. Schedules will be
posted at the 14 Washington Place, Tisch Hall and Warren Weaver Hall sites.

Students will need to show their class cards and their NYU ID cards in order to register.

**Student registration for Class Accounts on the IBM WIDJET system.** Students registering for the IBM WIDJET system will be required to present their class cards and their "IBM Coursework Account Identification" cards. Students will have to register for computer accounts during the first two weeks of the summer session in which their course is being given. Registration will take place in Room LC-8 Tisch Hall.

"Walk-in" tutorials will end early in the semester. If your students are new to the computing system on which your class has its account, please urge them to attend the ACF's introductory tutorials early in the semester. The ACF's "walk-in" tutorials in the use of the CYBER and in IBM WIDJET will be given only for about two weeks after classes begin.

You may also arrange a tutorial specially for your class. Please see "Update of ACF User Services" (page 15 of this Newsletter) for details.

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**Additional Notes on User Services and Documentation**

**ACF writeups for classroom instruction.** The ACF will print multiple copies of ACF writeups, upon request, for instructors who wish to distribute them to their classes. Forms and instructions are being distributed to all departments associated with class accounts on the CYBER. Blank forms for requesting multiple copies of writeups can be obtained in Rooms LC-7 Tisch Hall and 306 and 307 Warren Weaver Hall. About a week should be allowed from the time that the request is submitted. For help in selecting a set of CYBER writeups for class instruction, contact Estelle Hochberg (460-7397) or Frank LoPresti (598-2993). The ACF consultants in Room LC-7 Tisch Hall will help instructors choose ACF writeups for classes using the IBM systems: call Bert Holland (598-7851).

**Help in selecting manuals as texts.** The ACF staff will help instructors decide which CDC, DEC, and IBM manuals, if any, they should have the NYU Bookcenter stock specifically for their classes. Instructors who wish help in selecting manuals for their classes should contact the following ACF staff members to schedule appointments: Frank LoPresti (598-2993), for classes on the CYBER; John Hailu (598-7851), for the IBM; Stephen Tihor (460-7289), for the VAX.

**Help in "customizing" CYBER for classes or groups using the system.** Under the CYBER's new operating system, instructors are able to design a "computing environment" which is tailored to the styles and needs of their students and the computing tasks which their course requires. If you are interested, call Frank LoPresti (598-2993) for an appointment. He will discuss with you the feasibility of creating procedures which "customize" the environment for your class. Simple procedures of this kind have been written for classes using MINITAB and APL.
Graphics Contributions

In each issue of the Newsletter, we include plots and other samples of graphics output contributed by our users and, occasionally, by our staff. Our purpose in publishing these contributions is to illustrate the ways in which some of the graphics software and output devices offered by the ACF are being applied.

On the facing page. The figure on page 19 was contributed by Professor Suse Broyde of the Biology Department. It shows a small portion of DNA that has been modified by the carcinogenic metabolic derivative of benzo[a]pyrene. Benzo[a]pyrenes are found widely in the environment -- in automobile exhaust, for example.

The plot was produced with PLUTO, a program for plotting molecular and crystal structures by Sam Motherwell of the University Chemical Laboratory, Lensfield Road, Cambridge, CB2 1EW, England. The program will produce space filling, ball-and-stick, or line drawings. It was implemented on the CYBER by Adam Stein under Professor Broyde's supervision. The work was part of a project supported by DOE Contract # DE-AC02-81ER60015 and NIH grant CA-28038-04 awarded to Professor Broyde and co-investigators Professors Robert Shapiro and Graham Underwood of the Chemistry Department.

About our cover. The pie chart used in this issue's cover design is from one of the test plots accompanying Release 4.06 of SAS/GRAPH, a package of graphics procedures from SAS (Statistical Analysis Systems). This particular plot, a test of the QCHART procedure, happens to demonstrate the use of offset (or "exploded") segments. For inclusion on our cover, the chart was rotated 180 deg, and the labels generated by the SAS procedure were removed. The plot was output on a Hewlett-Packard 7475A plotter.

SAS/GRAPH is available on ACF3, one of the ACF's VMS/VAX systems. Plots can be produced in black-and-white or color. (See the item on page 10 of this issue of the Newsletter).

* * *

Comments Invited

If you have any comments, suggestions, or queries, please mail them to Estelle Hochberg, Editor, ACF/NYU Newsletter, 251 Mercer Street, New York, N.Y. 10012. Please mark the letter "For Inclusion In Newsletter". All letters will be read. Those of general interest will be considered for publication in the next issue of the Newsletter.

* * *
A SECOND MICOM PORT SELECTOR WILL BE INSTALLED

We expect a second MICOM Micro600 Port Selector to be delivered to us in late June. Once the new port selector is installed, we will upgrade the MICOM already in use at NYU, so as to ensure compatibility between the two units. If everything goes as planned, the two MICOMs will be operating in concert by early July.

Neither the installation of the new MICOM nor the upgrade of the old one should affect the way users access computer systems at NYU. In fact, you will probably notice no differences, at all. Even so, these changes will mean an important enhancement of our communications capabilities -- particularly the flexibility of our communications network.

The flexibility will come as a result of the MICOM's "interconnect facility". This is a facility which enables users on one Micro600 to access the resources on another Micro600 which is connected to it. We will be installing hardware and firmware which link the two units and enable our use of the interconnect facility. As a result, our network will be capable of supporting a greatly increased number of lines or ports. For example, if our two Micro600 port selectors were each to contain eight fully loaded bays, our network would be able to support up to 1,984 lines or ports (or 992 connections per Micro600).

The interconnect facility will operate without your awareness. Just as you do now, you will make a single request to connect to a particular system or resource. If the Micro600 which you happen to be using cannot supply the appropriate connection, the interconnect firmware will direct your request over the linking hardware to the other Micro600. In other words, if one Micro600 cannot satisfy a user's request, it will 'hand it over' to the other Micro600 where a second attempt will be made.

A second benefit is that each of the two interconnecting Micro600s will be able to act as a backup for the other. Currently, if the MICOM has to be taken out of service -- whether for routine maintenance or to correct the occasional problem -- the entire network of computer connections has to be brought to a halt. When the system of two Micro600s is in operation, this will not be the case. The existence of a second port selector, plus the particular configuration of lines and ports which we plan to use, should allow us to minimize loss of service, in the event that one of the port selectors goes down for any extended period of time. Further, after the interval needed to test for the source of the difficulty, -- one-half hour, say -- 100 percent of our lines could be in use once again.

- Carlo Cernivani, with Estelle Hochberg
IN BRIEF: SELECTED FACILITIES AND TELEPHONE NUMBERS

(For details on these and other facilities, see our Directory on the following page.)

Accounts and General Information 460-7427 (305 WWH)
Consultants
For students: CYBER 598-2993 (14 WPL)
CYBER, IBM (LC-7 TH)
For faculty and staff only: CYBER, VMS/VAX 598-3970 (307 WWH)
460-7398 (307 WWH)
CYBER, IBM 598-7851 (LC-7 TH)

Dial-in From: Dial: For (bps):
NYU and 598 exchange extension 7001 110-300
(from NYU ONLY) " 4141 110-1200
" 460 exchange " 7381 110-1200
" 285 exchange " 6272 110-300
Off Campus 777-7600 (Try 777-7800 if no answer.)

Equipment Problems 460-7414 (WWH only. See Directory for other sites.)
Computer Operators WWH 460-7170
TH 460-7174 (LC-14), 460-7175 (LC-8)
14 WPL 460-7176

Systems Status CYBER, VMS/VAX, UNIX/VAX 460-7285 (recorded message)
Tape Librarian CYBER, VMS/VAX, UNIX/VAX 460-7155
IBM 598-7901

Tutorials (arranged on request) WIDJET 598-7851
CYBER, IBM or VMS/VAX 598-2993

User Work Areas Mon - Fri 9 a.m. to midnight, Sat 9 a.m. to 4:45 p.m.

KEY and STREET ADDRESSES

WWH : Warren Weaver Hall, 251 Mercer Street
TH : Tisch Hall, 40 West Fourth Street
14 WPL: 14 Washington Place
Bobst : Bobst Library, 70 Washington Square South
DIRECTORY

Accounts
305 WWH, Mon - Fri, 9 a.m. to 5 p.m., 460-7427

Administration and General Information
305 WWH, Mon - Fri, 9 a.m. to 5 p.m., 460-7427

Dial-Up Numbers
From:
Off campus
598 Centrex
460
285
Speed (bps):
110-1200
110-300
110-1200
110-300
Use:
777-7600
7001 (from NYU ONLY)
7381
6272

Documentation

ACF/NYU Newsletter is mailed to holders of Individual Accounts on the CYBER, IBM, or VAX. Also available online on CYBER: type "EXPLAIN, M=MESSAGE". Inquiries: Estelle Hochberg, 306 WWH.

ACF Introduction and Directory, for holders of Individual Accounts: single copies are available in Rooms LC-7 TH and 305, 306, and 307 WWH.

Bookcenter (NYU), 23 Washington Place, stocks commercially published software manuals. Inquire at information desk, lower level. Computer tapes are sold at stationery counter.

ACF Writeups, CYBER: Use "OBTAIN(WRITEUP=QINDEX)" for information on online writeups. For online manuals and other documents in CONTEXT, type "EXPLAIN".

" " IBM:
Batch, use "/ EXEC MANUALS, NAME=INDEX", after your jobcard. WYLBUR, type "U WYL.PB.PUB.MANUAL.INDEX", then "LIST".

Limited supplies of ACF guides and manuals are also distributed from 14 WPL, operators' desk, Mon - Fri, 9 a.m. to 10 p.m., Sat 9 a.m. to 6 p.m.; TH Room LC-7, Mon - Sat, 10 a.m. to 5:30 p.m., 598-7851.

Multiple Copies of ACF Writeups for Classroom Use: Estelle Hochberg, 306 WWH for CYBER; consultants, LC-7 TH, for IBM.

(please allow about a week. Blank forms for CYBER writeups can be obtained in 306 WWH or LC-7 TH.)

On-Line Help Utilities (CYBER, VMS/VAX, IBM WYLBUR): Type "HELP", strike return key.

On-Line News Bulletins are important sources of information on systems and operations, training sessions, new documentation, user and programming hints, and so on.

CYBER News: Use "OBTAIN(WRITEUP=NEWS)" for time-sharing or batch. Replaced weekly.

IBM News: Updated as needed. Batch, use "/ EXEC IBMNEWS".
WYLBUR, type "U WYL.PB.PUB.IBMNEWS(CURRENT)"
then "LIST"; or type "HELP IBMNEWS".

VMS/VAX BBOARD: Type "BBOARD"; strike return key to list each message; type "HELP" for further instructions; type "EXIT" to quit.

Reference Copies of Manuals: 14 WPL, TH Room LC-8, WWH Room 317; selected CYBER and VMS/VAX manuals are also available at the Bobst Library Reserve Desk (instructor is listed as "Computer"), the CIMS Library, and the Computer Science Department's Help Room (1128 WWH). For CYBER, type "OBTAIN(WRITEUP=REFLIST)"; for VMS/VAX, use "PRINT NYU$LIB:VAXMAN.DOC".

(continued on following page)
ACF/NYU NEWSLETTER
Vol. IV, No. 2, April 1984

Equipment Problems

at 14 WPL
Site Supervisor
at TH " " , Room LC-8
at WWH Operations Personnel, Room 312, or 460-7414
ACF Terminals at Other Locations: 460-7414

Street Addresses
Warren Weaver Hall: 251 Mercer Street
Tisch Hall: 40 West 4th Street
Bobst Library: 70 Washington Square South

System Status

~Librarian: Bobst Library: 70 Washington Square South
CYBER, VAX: 460-7285 (recorded message)

Tape Librarian:

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Terminal Problems (ACF equipment only): See Equipment

User Services

Student Advisement

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Hours for Consultants and Student Advisers are posted at 14 WPL,
WWH outside Room 305, and TH Room LC-7.
See the CYBER writeup "CONSULT" for advisers' hours.

User Work Areas

Mon - Fri 9 a.m. to midnight, Sat 9 a.m. to 4:45 p.m. *, **
(Note: WWH facilities are for faculty and researchers only.)

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<td>CYBER: Interactive terminals, self-service printers</td>
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<tr>
<td>14 WPL, TH Room LC-8, WWH Room 317; Bobst B-level *</td>
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<tr>
<td>Card readers TH Room LC-14, WWH Room 312</td>
<td></td>
</tr>
<tr>
<td>Keypunches TH Room LC-14, WWH Room 310</td>
<td></td>
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<tr>
<td>Output folders (high speed printers) TH Room LC-14, WWH Room 312</td>
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<tr>
<td>VAX: Interactive terminals, self-service printers</td>
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<tr>
<td>TH Room LC-8, WWH Room 317; Bobst B-level *</td>
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<tr>
<td>Output folders (main printer) WWH Room 312, TH LC-14</td>
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<tr>
<td>IBM: Interactive terminals</td>
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<tr>
<td>WYLBUR TH Room LC-8, WWH Room 317, Bobst B-level *</td>
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<tr>
<td>WIDJET TH Room LC-8</td>
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<tr>
<td>Card reader TH Room LC-14</td>
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<tr>
<td>Output folders TH Room LC-14</td>
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</tbody>
</table>

* The ACF terminals on the B-level of Bobst Library are available during all library and study-hall hours. There are no printers at Bobst.

** Special summer hours at 14 WPL: Mon - Fri 9 a.m. to 6 p.m., closed Sat.

Key WWH: Warren Weaver Hall; 14 WPL: 14 Washington Place; TH: Tisch Hall.