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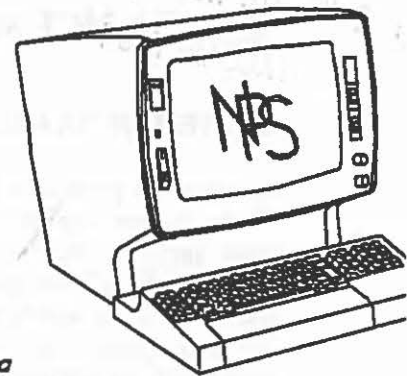A-5

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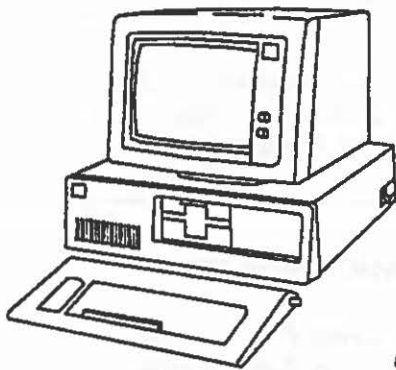
Computer Center
BULLETIN

Naval Postgraduate School   Monterey, California

July 2, 1987

ANNOUNCEMENTS

SYSTEM UPGRADES ACCOMPLISHED

As we go to press with this issue of the *Bulletin* all of the system upgrades described in our previous issue appear to be on track. IBM 3380 disk storage units have been installed and the upgrade of the 4381 cpu is scheduled for the break. The new Versatec plotter controller has been installed, along with an additional IBM 3174 terminal controller.

For the VM user the transition from Mass Storage to 3380 disks for on-line file storage was accomplished in late May so smoothly that it went unnoticed except by a few eagle eyes. Most of the MVS conversion will have been accomplished by 7 July.

For MVS use some minor changes in job control language may be required. Directions will be published in a technical memorandum separate from the *Bulletin*. Preliminary information is available by consulting the on-line NEWS. The major changes arise from the management of MVS storage by the new software package, Data Facility Hierarchical Storage Manager (DFHSM). This product was discussed in the 28 May issue of the *Bulletin*.

Doug Williams

SUMMER QUARTER TALKS

The User Services Group will give twenty-four talks at the beginning of this quarter to acquaint users with the various facilities of the VM/CMS timesharing and MVS batch systems available on the mainframe and with the services available in the Center's Microcomputing Lab. In addition, Prof. P. A. W. Lewis (OR) will present two introductory talks about interactive statistical/graphical services using APL.

The following seven talks will be given in the In-122 auditorium. Signup for these sessions is not required.

Introduction to VM/CMS: In-122

1410 Wednesday   8 July June Favorite
1510 Thursday   16 July June Favorite

This talk is given twice; it assumes no prior knowledge of the NPS computer. Topics to be covered include the use of the 3278 terminal, how to logon and logoff, use of the function keys, the HELP facility, and various general-purpose commands. It is strongly recommended for all new users of the Center and covers information which may not be provided in an introductory programming class. Be sure to bring a copy of Technical Note VM-01, *User's Guide to VM/CMS at NPS*. (A copy of this publication is usually provided when a new user registers in In-147.)

Introduction to XEDIT: In-122

1510 Wednesday   8 July Patricia Collins
1510 Monday   20 July June Favorite

This talk is presented twice. It provides elementary information about the XEDIT full screen editor. The main emphasis is on methods for creating and changing programs and other files. Use of the PF keys and HELP facility in XEDIT are mentioned. The talk assumes little or no familiarity with XEDIT, but prior attendance at *Introduction to VM/CMS* is recommended.

Introduction to SIMPC: In-122

1510 Monday   13 July Donna Schoenecker
1410 Tuesday   21 July Donna Schoenecker

This talk describes the SIMPC protocol converter which allows users of personal computers to use their equipment as terminals on the mainframe (327x emulation) and to transfer files between the IBM 3033AP system and their microcomputers. It will be given twice.

Introduction to Thesis9: In-122

1550   Thursday   30 July   Larry Frazier

The time for this talk is approximate. It will begin immediately after the Registrar's thesis briefing in King Hall. ·Thesis9 is an addition to the Script text-formatting system that simplifies production of a thesis meeting NPS standards. The talk will be useful only to those with some familiarity with Script. Attendees should also have read the first three chapters of TN VM-14, the Thesis9 documentation, which is available in In-146.

> All other talks, which are described below, will be given in In-119, In-151 or In-260. Those interested in attending should sign up in the Consulting Office, In-146, to reserve a seat.

Introduction to GRAFSTAT: In-119

1510   Tuesday   7 July   Prof. P.A.W. Lewis

This talk will give a brief introduction to GRAFSTAT, an APL package for interactive scientific-engineering plotting, graphics output development, applied statistics, and data analysis. The program features a full-screen interface, complete on-line help, color graphics capability and effectively combines computation and graphics. Complete routines for least squares fitting, fitting of probability distributions, design and implementation of quality control charts, regression and time series analysis are available.

Introduction to GML: In-119

1510   Thursday   9 July   Larry Frazier

Generalized Markup Language (GML) provides a set of commands that simplifies the task of using the Script word formatter to prepare papers and other research publications. It takes care of references, footnotes, and figures, and will also generate a Table of Contents for your paper. GML provides the same type of functions as SYSPUB, but GML commands are easier to use. GML for Waterloo Script will be replaced by GML under IBM's Document Composition Facility (DCF) at the beginning of 1988; the two GMLs are similar. There is no SYSPUB under DCF.

Micro/Mainframe APL-Related Programs: In-119

1610   Thursday   9 July   Prof. P.A.W. Lewis

This talk describes interactive statistical/graphical programs, in addition to GRAFSTAT, which are based on APL or APL2. Mainframe execs for running these programs will be demonstrated. APL+PLUS and STATGRAPHICS, as well as statistical programs from Anscombe's APL book, are available for use on micros. Terminal-mode access from micros is discussed, along with software to transfer variables, functions and complete workspaces between the mainframe and micros.

Introduction to DISSPLA: In-260

1410   Wednesday   15 July   Patricia Collins

DISSPLA is a device-independent graphics package for use by FORTRAN programmers. It allows convenient generation of a large variety of graphs, charts, text, etc. It may be used at NPS both on MVS (batch) and CMS (timesharing). This talk provides a general introduction and some examples of usage.

Micro Networking in the Center: In-151

Two-session series

1610 Wednesday 15 July Donna Schoenecker
1610 Thursday 16 July Donna Schoenecker

This seminar takes two sessions. It is a hands-on presentation which will introduce you to the software available to users of the AST PC network located in In-151. You will learn to access the software stored on the network server system disk and how to access the physical and virtual disks available on each node. You will also be introduced to printer spooling and use of local printers on the network.

MS-DOS Topics: In-119 and In-151

Two-session series

1510 Thursday 16 July Kathryn Strutynski
1510 Thursday 23 July Kathryn Strutynski

The first session in In-119 is a lecture which is designed to increase your knowledge of the DOS operating system and help you become a more efficient user of your PC. You will learn how to use tree-structured directories to organize your files, how to create batch files to save time and keystrokes, and you will be introduced to the sophisticated commands and command filters of DOS 3.1 – ASSIGN, ATTRIB, BACKUP, FIND, MORE, SORT, etc. The second part will be a lab session in In-151 to provide hands-on instruction.

Introduction to WordPerfect: In-151

First Series:

1610 Monday 20 July Kathryn Strutynski
1610 Wednesday 22 July Kathryn Strutynski
1610 Thursday 23 July Larry Frazier

Second Series:

1610 Monday 27 July Kathryn Strutynski
1610 Tuesday 28 July Kathryn Strutynski
1610 Wednesday 29 July Larry Frazier

These seminars are given in two identical series. All enrollees should attend at least the first two sessions of either set which are hands-on tutorials about WordPerfect in general. The third session of each set is a special presentation concerning use of WordPerfect to produce a thesis in NPS-approved format. WordPerfect is fast becoming the favorite word-processor of many companies and universities. These talks will introduce you to most of its fundamental features. You will also be shown how to use some of its special features – the spelling checker, the thesaurus, and outlines/tables/indices.

DISSPLA Workshop: In-260

1410 Wednesday 22 July Patricia Collins

This talk will cover some of the special features of DISSPLA, the primary graphics package at the Center. These topics include DISSPOP (for complete device independence), METAFILEs and directive files, enhancement features for various types of graphs and some of the options for creating three-dimensional graphs. Part of the session will be used to answer specific questions from attendees.

Intermediate Topics in VM/CMS: In-119

1510 Thursday 23 July Roger Hilleary

This talk takes 90 minutes. It was designed to encourage timesharing users to go beyond use of only the basic commands. The concept of the virtual machine underlies most of the talk. Use of SIM3278 to obtain multiple sessions is illustrated. Load modules, the filedef command, and packed files are demonstrated. Use of virtual I/O devices and manipulation of spooled files are also discussed.

Introduction to SPSS-X: In-119

1510 Tuesday 28 July Dennis Mar

SPSS-X, the Statistical Package for the Social Sciences, is a comprehensive tool for managing, analyzing, and displaying information. The speaker will describe the required data formats and SPSS-X control statements for a simple problem. Both batch and timesharing modes of execution will be demonstrated. This talk is intended for new users of SPSS-X.

Introduction to Minitab: In-119

1210   Friday   31 July   Dennis Mar

Minitab is an interactive statistical computing system available on VM/CMS. It is designed for moderate-size data sets which can be stored on a CMS A-disk. Minitab is quick and especially useful for exploring data, plotting, and regression analysis. Attendees should be familiar with the timesharing system.

Introduction to SAS: In-119

1510   Thursday   6 August   Dennis Mar

SAS, the Statistical Analysis System, is a flexible program for handling all phases of data analysis: retrieval, data management, statistical analysis, and report writing. It has excellent features for merging and subsetting data sets. The speaker will describe the required data format and SAS control statements for a simple problem. Both the batch and timesharing modes of execution will be demonstrated.

Neil Harvey

MICRO NEWS

NEW IN THE MICRO LAB

Some new software and hardware has recently been added to the network in the Micro Lab (In-151). In the hardware department we now have eight systems on the net, including three Zenith 248s with hard disks. If you turn the power off on a micro with a hard disk, please remember to wait 20 seconds before turning power back on. Turning the computer on too soon can cause loss of stored information or even damage to the hard disk.

New software includes WordPerfect Corporation's MATHPLAN (v. 3.0). This spreadsheet program can use existing Lotus 1-2-3 spreadsheets; it also has the capability to merge spreadsheets with WordPerfect document files. Also, it can output to the Corona laser printers. For the laser printers we have added three new fonts and are working on adding Greek characters and math symbols in a larger font. We have also added Xerox Corporation's Ventura Publisher (page layout/desktop publishing software) to our system.

PRINTING ON THE MICRO NETWORK

Currently we have only one printer on the network, an Epson FX 100. Although its advertised speed is 160 characters per second, the actual throughput is only about 80 cps. The 3800 printer on the mainframe has higher quality and is faster than this printer. It is inefficient to bring files from mainframe to print locally on the network. If you need to cut the printout to 8 1/2 by 11 inch size, you can bring your output to the print shop and they will cut it for you.

THESES PREPARED ON A MICRO

A number of theses have been successfully prepared with WordPerfect and printed on the laser printers in the Micro Lab. All of them have been accepted by the thesis examiner in the Registrar's office. Some of these theses have included equations prepared with the scientific notation features of WordPerfect. We believe this method has become a viable alternative to use of Script and Thesis9 on the mainframe.

Kathryn Strutynski

SOFTWARE UPDATES AVAILABLE

IBM Software

Through IBM's Technical Coordinator program we have obtained updates for the following software:

- Professional Fortran - update is version 1.22

- APL - update is for version 1.0

- Topview - update is for version 1.01

All licensed users on campus may bring their original distribution diskettes to the Micro Lab (In-151) to obtain these updates.

IRMA

Digital Communications Associates, Inc. (DCA) has announced an update to the IRMA micro-to-mainframe product. The new E78 Plus terminal emulation software now includes support for Models 2 through 5 screen types, as well as APL characters. This update is available to existing IRMA users for a limited time at $75.00 and includes E78, the IRMA file transfer software, and a new set of documentation. This update offer expires 1 December 1987.

DCA will accept only cash, check, or credit card orders for the update; purchase orders will not be accepted. Interested users must call Ms. Marisa Miller at DCA, (404) 442-4275 for additional information or to place an order.

Donna Schoenecker

VM TOPICS

FIXING UPLOADED FILES

Most of the time CMS takes care of all file-handling details. You create, modify, and delete files without thinking about how they are stored on the disk. But alas, there are moments when obscure incompatibilities emerge to trip you up.

Anyone uploading FORTRAN or data files from a personal computer to CMS must be aware of two file characteristics: record format (abbreviated RECFM) and logical record length (abbreviated LRECL). CMS record formats (RECFM) describe how the file is stored on the disk. Record formats are fixed (F) or variable (V). The logical record length (LRECL) describes the number of characters per line. The standard LRECL for FORTRAN or data files is 80.

Fixed or variable RECFM files will look the same in XEDIT. However, some other programs require RECFM F and LRECL 80 in order to function correctly. Two important examples are FORTRAN programs compiled with FORTVS (the VS FORTRAN compiler) and data files read into Minitab (an interactive statistical package). In either case, error messages will be printed if the input file is not RECFM F and LRECL 80. The respective error messages are:

FORTVS —

    FILE 'XXX FORTRAN' IS NOT FIXED LENGTH.

Minitab —

    ERROR FILE MUST HAVE FIXED-LENGTH,
    80-CHARACTER RECORDS

Often, a file uploaded from a personal computer will have RECFM V and/or a LRECL not equal to 80. To convert such a file to the required characteristics, type the following command in FILELIST or FLIST next to the file(s) you want to change.

    COPY / (RECFM F LRECL 80

and press Enter. If your file was shorter than 80 characters per line, each line will be extended to 80 by padding with blanks. If your file contained lines longer than 80 characters, the long lines will be truncated to 80 (anything beyond column 80 will be lost).

RECFM and LRECL are normally of little concern to VM users, since, if you use XEDIT to create a file with filetype FORTRAN or DATA, XEDIT will automatically set RECFM F and LRECL 80. The RECFM and LRECL for any file are identified in FILELIST under the headings 'Format' and 'Lrecl'. RECFM and LRECL are also shown in the top line of the XEDIT screen after the file identification.

If your uploaded file is in XEDIT, you can convert it to the desired format by entering LRECL 80 < Enter > and then RECFM F < Enter > on the command line. It should then be FILEd.

Dennis Mar

MISCELLANEOUS

STAFF CHANGES

In May we said a sad goodbye to Debbie Walsh from the Accounting and Registration Office. Since she issued userids, Debbie was one of those people at NPS whom everyone met. Her efficiency and good humor were most appreciated by all of us. Now Debbie is working for the Directorate of Engineering and Housing at Fort Ord as an information systems analyst specializing in microcomputers. Her replacement will be Rosemary Troian who is rejoining the School from NOAA, Monterey. We are delighted to welcome her back.

On the 0000 to 0800 operations shift, we lost one and gained two (operators). Brent Johnson left; Tony Coloma and Laura Mans arrived. Tony formerly worked as a computer operator at Fort Ord. He is also a computer science student at Hartnell College. Laura's prior computer experience was in FNOC's operations room as a Naval Petty Officer.

Dennis Mar and Doug Williams

CHANGE IN MINIDISK BACKUP TIME

Thanks to the newly installed 3380 disk drives, minidisk backup will now be performed 0000-0600 each Sunday. This is a change from the old time of 2130 hours Saturday to 0800 hours Sunday. Approximately 5½ extra hours of computing time will be realized. Now that's progress!

Ed Donnellan

OPERATIONS INFORMATION

CONSULTING HOURS

Mon - Fri 0900-1130 and 1315-1545 in In-146

Reference materials in the Consulting Office must not be removed from that room without special permission of the Consultant on duty or a Computer Operations Shift Supervisor.

HOURS OF OPERATION

VM/CMS and MVS are available 24 hours a day, 7 days a week, except during backups from 0000 until 0600 Sunday. During this time, only MVS is available.

Preventive maintenance is normally performed 0700-1400 hours, first Sunday of each month. Systems work may occasionally be performed between 0700 and 1200 on Saturdays; advance notice will be given in the VM/CMS log message.

Call 646-2713 for recorded system status.

MVS Job Queue Restrictions

No more than 3 MVS (Batch) jobs per individual may be executing and/or waiting execution. This policy allows each individual a fair share of batch processing capacity, and prevents spooling overload problems. It will be enforced by cancelling excess jobs.

Information on Printed Output

The Computer Center has an IBM 3800 non-impact printer and a 3262 impact printer in room In-140. These printers are available around the clock, 7 days a week. (See "HOURS OF OPERATION"). If you want a printer unloaded, expect to wait until an operator is available. If you have received instruction from a computer operator, you can remove printout from either printer. If you do, leave separated output on the counter-top, or file it in the bin matching the first letter of the distribution code. Please observe these rules:

- Press the READY button after removing output.

- Make sure output is folding correctly in the output hopper.

- Separate all jobs in the batch of output removed from the printer.

Avoid unnecessary printing. Return output to your terminal for review and/or editing prior to printing. Use the default output class, SYSOUT = A, for general output from MVS. This produces two output pages per sheet of paper on the 3800 page printer.

Budget restrictions and good computing practice dictate that only one final copy of a thesis be produced on any of the Center's printers. If more than one copy is required, use of duplication facilities on campus is recommended. But please note that the NPS printshop will not cut or bind more than one personal copy.

Please put unwanted printout in any trash container in In-140, In-141, or In-151, for recycling.

Distribution: List 3, plus: 350-B3, 3-B4, 10-F3, 3-F4, 1-F6, 1-F7