UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

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SCHOOL OF PHARMACY
DEPARTMENT OF PHARMACEUTICAL CHEMISTRY
COMPUTER GRAPHICS LABORATORY

SAN FRANCISCO, CALIFORNIA 94143

September 13, 1978

Professor Melvin Ferentz
Box 8
The Rockefeller University
1230 York Avenue
New York, New York   10021

The Computer Graphics Laboratory at the University of California, San Francisco, is making extensive use of the UNIX operating system to support a high performance interactive graphics facility for display of three-dimensional molecular models. We are primarily interested in the study of structures, functions, and interactions of complex biological molecules, particularly those related to drug interactions.

The main components of the facility consist of a Digital Equipment Corporation PDP-11/70 computer and an Evans and Sutherland Computer Corporation Picture System 2 display system. (The Picture System 2 is a calligraphic display which includes a graphics matrix arithmetic processor capable of performing rotation, translation, perspective, and zooming computations on two and three dimensional data in real-time.)

Several simple extensions have been made to UNIX to fully support the required high performance environment necessary for interactive graphics and a complete graphics subroutine package has been developed to specifically support the powerful capabilities of the Picture System 2 under UNIX.

Extensions to UNIX include a minor addition to provide 'real-time' response for a process (real time = predictable response time <= 50 msec). This allows us to support about 12 users and an interactive graphics process simultaneously.

Most of this work has been detailed in a technical report available from our laboratory. If anyone is interested, I would be happy to send a copy of this report and arrange for distribution of the Picture System 2 Graphics Subroutine Package upon request (both are free of charge).

Sincerely,

Thomas Ferrin
Computer Facility Manager and Lecturer
Computer Graphics Laboratory

Sept. 1, 1978

UNIX News,

The University of Guelph, Department of Computer Science,

is looking for device drivers for the following devices:

DU 11

DQ 11

If anyone can help please write:

UNIX Supervisor
Department of Computer Science
University of Guelph
Guelph, Ontario
N7G 2W1
CANADA

Thank you so much.

ANALYTICS

P.O. Box 7028
Saskatoon Saskatchewan
S7K 4E5
(306) 244 3606

August 22, 1978

Dr. Melvin Ferentz
The Rockefeller University
Box 8
1230 York Avenue
New York, N.Y. 10021

Dear Dr. Ferentz:

I am enclosing the amount requested for subscriptions of the UNIX newsletter to June 1979. May I request that the mailing address of Analytics be changed to the above and that the addressee be changed to Eric A. Brooks, General Manager; Mr. Skulmoski is no longer with the company.

We developed a driver for RK06 disk drives through necessity in mid-1977 and we are investigating the possibility of developing one for the RM03 disk drives. Before we reinvent the wheel, would you inquire of the newsletter readership whether a RM03 driver exists? If one does, we would be prepared to negotiate with the developer to save ourselves the trouble.

Thank you for this cooperation.

Eric A. Brooks
General Manager

cc: f

26 September 1978

Dear Colleague,

We met at the Unix Users Group Meeting in New York this past May. You may recall that I gave a talk on the KSOS Project. As part of that talk I mentioned that we had written a Formal Specification for 6.0 Unix. Copies of that specification were promised. A list was circulated. You signed up for a copy.

A number of clearances, both internal and external, were required before the Formal Specification could be distributed. Those clearances have now been obtained. If, after all this delay, you are still interested in receiving a copy of the Formal Specifications, I will be happy to send one to you. The circulation is limited to Unix licensees. To obtain your copy please send back the label from this letter along with a copy of your executed Unix license.

I also have a limited supply of the SPECIAL Reference Manual, by Roubine and Robinson. This manual describes the language which we used for the Formal Specifications. If you would like a copy of this, simply enclose a note.

Sincerely yours,

Thomas A. Berson

RETURN ADDRESS:
  Dr. Thomas A. Berson
  Ford Aerospace & Communications Corp.
  3939 Fabian Way MS/V-02
  Palo Alto, CA 94303