

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

PROJECT MAC

Reply to: Project MAC
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May 4, 1970

Mr. D. L. Reich
Manager, Information Services
IBM
Thomas J. Watson Research Center
P.O. Box 218
Yorktown Heights, New York 10598

Dear Mr. Reich:

Thank you for your invitation of April 21, 1970, to speak in your Computing Systems Seminar series. I will be able to accept your date of May 22nd.

Do you have facilities for impromptu vu-graph slides? If so, I will plan to use them instead of the blackboard.

Enclosed is an abstract and also a brief biographical sketch in case you need it. Feel free to edit either or both to conform with your usual style of announcement. Please let me know of the time of the seminar. I would like to take the opportunity to also visit with the groups concerned with measuring (and developing) TSS/360 and CP/67 at the Watson Laboratory. Can you make appropriate contacts in advance for this purpose?

Sincerely yours,

Jerome H. Saltzer
Assistant Professor of
Electrical Engineering

JHS/bm
Enclosures

Instrumentation and Measurements of Multics

ABSTRACT

Multics is a large scale, general purpose time-sharing system developed at M.I.T. Project MAC for the General Electric 645 computer system. It uses techniques such as demand paging (to provide a virtual memory) segmentation (to allow controlled sharing of information at an intimate level) and multi-processor multiprogramming (for increased performance). The understanding of what to measure in this complex system has evolved as its developers acquired insight into the way the system works. The talk will include both description of some current metering facilities, and also some interpretation of recently observed measurements.

Professor Saltzer is a member of the Electrical Engineering Department at M.I.T., and of the Computer Systems Research Group at M.I.T. Project MAC. He was involved in the later development of the Compatible Time-Sharing System (CTSS) for the IBM 7094 at M.I.T. For the Multics project he designed the multiple processor multiplexing scheme, and has been responsible for guiding much of the instrumentation effort of the system. He teaches an undergraduate computer science subject entitled "Information Systems".

IBM

RECEIVED
APR 23 1970
J. H. SALTZER

International Business Machines Corporation

Thomas J. Watson Research Center
P.O. Box 218
Yorktown Heights, New York 10598
914/945-3000

April 21, 1970

Dr. Jerome H. Saltzer
Department of Electrical Engineering and
Project MAC
Massachusetts Institute of Technology
Cambridge, Massachusetts

Dear Dr. Saltzer,

At the suggestion of Hugh Lynch and Walt Doherty, I wish to invite you to speak at the Computing Systems Seminar at the IBM Thomas J. Watson Research Center. We would be particularly interested in hearing about your work on measuring the MULTICS system.

The Seminar meets for one and a half hours of lecture and discussion every two weeks and is publicized in our Research Calendar. The audience is typically 30 to 100 people involved in systems and application programming or systems and programming design projects. Recent talks have described data migration in TSS and an interactive facility for symbolic mathematics.

Our next available seminar dates are May 22 and June 5. If either of these days is suitable for your visit please let me know which you prefer and send me an abstract of your talk.

We would be pleased to offer you an honorarium of \$100.00 and to pay the expenses of your trip to Yorktown.

I hope we will have the opportunity to meet you and hear about your work.

Yours truly,



David L. Reich
Manager, Information Services

DLR:cmr