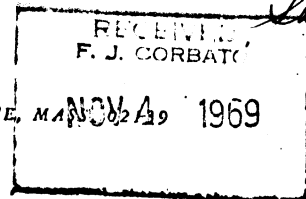


INTERDEPARTMENTAL

MASSACHUSETTS INSTITUTE OF TECHNOLOGY CAMBRIDGE, MASS. 02139 NOV 4 1969



from the office of Information Processing Services

October 31, 1969

To: Professor J C R Licklider
Professor F J Corbató

Mr S H Cowen

Mr D C Driscoll

Mr W J Burner

Mr J R Steinberg

Subject: Extension of Multics In-Service Test
to Bell Laboratories and Rome Air Development Center

Attached for your scrutiny is the beginning of a proposal intended for submission to both Bell Laboratories and Rome Air Development Center. I think we will need to add a substantial "terms and conditions" section, primarily to limit M. I. T.'s responsibility with respect to use of the computer.

I have used Professor Corbató's name without consulting him, but it should be interpreted as a placeholder for that of any appropriate and interested faculty member.

The budget section is a crude first cut and does not indicate that some cost sharing may be involved. For example, Rome may be in a position to fund all items (the computer service item will probably be smaller in their case), while it may be difficult for BTL to provide funds for salaries and wages -- I don't know. Perhaps MAC, M. I. T. discretionary funds, or other sources could pick up some of the cost.

We will certainly want to begin working out an appropriate experimental design with BTL and Rome as soon as we have an indication of interest.

I would appreciate comments and suggestions.

RGM

Richard G. Mills

RGM/p

Attachment

BTL PROPOSAL

Introduction

On 1 October, 1969, the Multics system passed from development and implementation phase into a new phase of service testing. Services of the system are offered to the general M. I. T. user community with a firm commitment that a minimum three-year in-service period is assured, and that the system may be safely used as a system base for the development of application-oriented subsystems requiring substantial investment in software.* Multics is viewed by this general-user community not as an experiment but as one of the standard computer-service offerings of the M. I. T. Information Processing Center.

From the point of view of a service test of Multics, an academic community with a substantial number of students and teaching faculty, together with their usual complement of academic research, will provide one class of use for the system -- one that is obviously very important to M. I. T. and other academic institutions. However, even with respect to this class of use, M. I. T. is a special case, since the Multics developers are here and have an explicit interest in seeing that Multics provides an appropriate grade of service, even though the prime operating responsibility for the system rests with the campus computer service organization, the Information Processing Center. From the point of view of developing a broader picture of the in-service capabilities of Multics, it is highly desirable to have a completely different class -- or perhaps several different classes -- of users actively exploiting the system.

* A "three-year commitment" to provide Multics is a first step by M. I. T. in the direction of providing a long-range planning base for those who contemplate work involving major application software development. Three years may not appear to be adequate, but in the context of the past policy of zero commitment, it is a significant step. Multics is virtually certain to be in service for more than three years.

Proposal

I propose that a period of in-service testing of Multics by users at the Bell Telephone Laboratories commence immediately. M. I. T. will provide access to the Multics system to an extent that we will mutually determine prior to completion of a final experimental design. During this period M. I. T. will provide user information about Multics, make quantitative measurements of its performance, and make qualitative determinations of its effectiveness as perceived by the BTL users.

Faculty supervision of the experiment will be provided by Professor F. J. Corbató at M. I. T., who will be assisted by various faculty, staff, and student personnel as the development of the experiment warrants.

BUDGET (one year)

Salaries and Wages

Faculty	\$ 2,500
Staff	2,500
Grad Student Staff	10,000
Other	<u>2,500</u>

\$17,500

Computer Service

(10,000 console-hours at \$10)

100,000

Miscellaneous

Travel	\$ 2,000
Publ Expense	1,000
Tele & Data Comm	3,000
Terminals (5 at \$1,800)	<u>9,000</u>

15,000

\$132,500