COMPANY

CAMBRIDGE

INFORMATION

SYSTEMS

LABORATORY

575 TECHNOLOGY SQUARE, CAMBRIDGE, MASSACHUSETTS TELEPHONE 491-6300

cc: C Clingen

D Powell

J Tibbs

DATE:

AUGUST 22, 1969

TO:

J. C. R. LICKLIDER.

R. G.

MILLS

FROM:

J. S. WARREN

Attached is a proposed agreement for your review. This proposal is General Electric's response to Dr. J. C. R. Licklider's letter of June 26, 1969.

The General Electric Company firmly believes that this proposed agreement is in the mutual interest of both parties.

After reviewing this agreement, we suggest that a joint meeting between representatives of General Electric Company and MIT be held at MIT. Because of the urgency of this matter we believe the meeting should be held, if possible, the first week of September. Since I will coordinate this meeting, I would appreciate your notifying me of a meeting date and time as soon as possible.

Thank you for your consideration of this matter. If you have any immediate questions please do not hesitate to call.

I look forward to hearing from you next week.

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JOHN S. WARREN, Manager Northeast Federal Area

Federal Systems Operation

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(enclosure)

PROPOSED AGREEMENT GE-645/MULTICS

(regetive Starty who) Project MAC and GE will continue their active support of and participation in the MULTICS Development Program through the third quarter of 1969 at a level that will not impede the production of a MULTICS software system sufficiently stable to reliably support on a simplex GE-645 hardware system a peak load of 30 simultaneous users of "Comprehensive MULTICS Service" with CTSS-equivalent response times.

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- 2. As of 1 October 1969, the MIT Information Processing Center will "go public" with MULTICS utilizing the GE-645 System B hardware configuration previously planned jointly by GE and Project MAC and itemized in Attachment I as the on-line equipment base.
- 3. To "go public" means to offer the MULTICS service capabilities defined in paragraph 1 above to: the MIT community, including Project MAC; through reciprocal access arrangements already in effect to other universities in the New England area; to GE; and to other industrial and/or academic organizations.

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4. Prior to 1 October 1969 and subsequent to 1 Febuuary 1969, GE will provide the present GE-645 System B hardware configuration at no cost and Project MAC will pay normal rental (less Educational Discount) on the present GE-645 system hardware configuration, plus scheduled extra shift maintenance.

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All provisions of the following paragraphs of this agreement shall become void if the preceding conditions referenced to 1 October 1969 are not met as of that date. If said conditions are met as of that date, the provisions of the following paragraphs of this agreement shall be effective and binding upon MIT, Project MAC and GE for a period of three (3) years commencing 1 October 1969.

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January work

June 10/1 to 12/8

During the period of 1 October 1969 to 31 December 1969, the above referenced GE-645 System B equipment base shall be augmented by GE with additional GE-645 equipment to the level of a dual system B configuration, as itemized in the attached equipment listing.

technical review

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The MIT Information Processing Center shall establish billing algorithms and resultant billing rates for the two levels of MULTICS service and shall perform all accounting of and billing for the use of such service to all users both internal and external to MIT. The billing rates established by MIT shall be predicated upon the liquidation of all equipment, maintenance, operation and communication costs when the actual peak utilization of the system is approximately 80 percent of the estimated peak capacity of the fully implemented dual system installation, taking into account a diurnal load distribution and system utilization equivalent to that shown in Attachment II. For the purposes of such billing rate calculations, total equipment and maintenance costs shall be as shown in the attached equipment listing. Billing for the use of MULTICS services shall be the same irrespective of whether the equipment is configured as a dual system or as two independent simplex systems.

Effective 1 October 1969, MIT shall pay to GE an amount equal to one-third of the basic monthly rental price of all installed equipment plus the full price of any 2nd shift maintenance required based on the prices itemized in Attachment I. In addition, MIT shall pay one-half of the gross monthly revenue received each month that is in excess of the equipment rental and additional maintenance amount paid to GE for that month.

9. In consideration of the above, GE shall be credited for its use of the system subsequent to 1 October 1969 by an amount equal to the billing for such use up to a maximum of 20 percent of the estimated maximum capacity of the system, with such maximum capacity being equal to the peak capacity utilized in the billing rate computations under paragraph 7 times the period 0800 to midnite. However, such GE usage shall be given a lower priority than for other users so that the system does not become saturated during peak load conditions due to such usage.

parent parent MIT's orm 10. In conjunction with Project MAC, GE will support the continuing refinement and evolution of the MULTICS software at a personnel level commensurate with the increasing stability of the system versus time.

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11. Project MAC will continue to support and improve the MULTICS software and will mount a strong effort to develop user-oriented software subsystems.

your or

- 12. Rights to MULTICS shall be in accordance with the prior agreement of the parties. At such time as GE offers a commercial MULTICS service, MIT will cease to offer MULTICS to new industrial users, but may continue to supply them current users. Such an offering by GE will not alter the GE commitment provided by this agreement.
- 13. Provisions for improved GE-645 hardware and for the support of MULTICS software for such hardware remain as stated in paragraphs G and H of GE's formal 645/MULTICS position of 15 January 1969. Such hardware, or other hardware not included in Attachment I, may be substituted with appropriate order lead times for equivalent installed equipment prior to the expiration of this agreement. Rental prices for such equipment shall be at published list price (or equivalent in the case of special order equipment) discounted by any appropriate educational discount plus any applicable provisions for long term lease.

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AGREED TO:

Title

Large Systems Department Information Systems Equipment Division General Electric Company Title

Massachusetts Institute of Technology

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ATTACHMENT I BASIC "B" SYSTEM CONFIGURATION

MODEL.		<u>Q</u>	TY <u>,</u>	BASIC MO.	RENTAL	2nd SHIFT MAINT.
CP8031		1		14 560		952
CPP600		1		260		17
MM8030	32 lc	1		6 760		442
0PT802		3		252		15
OPT815		1		105		7
AMN 600	32 JC	1		4 475	1. The second se	292
CAB601		1		260		17
AUN 600	3710	1		4 475		292
MW8040	32 K	1		6 760		442
021802		3		252		15
OPT815		1		105		7
AMN 600	3216	1		4 475		292
CAB601		1		260		17
AUN 600	32 K	· · · · · · · · · · · · · · · · · · ·		4 475		292
AMN 600	33 16	1		4 475		292
CLK600		1		760		50
MSW600		1		50		3
EMU302		1		12 430		1 328
DC8031		1		5 620		368
MIP600		1		260		17
PLP600		2		130		6
CAB600		1		990		65
HPC600		1		680		46
CAA600		1	3 only housely 3 Aros	195		10
CAC600		3	/	255		15
TTA600		3	a m brossin to	1 260		87
			711300			

ATTACHMENT | (continued)

77 THO IMENT 1 (COTTETHIGE)			
MODEL	QTY.	BASIC MO. RENTAL	2nd SHIFT MAINT.
TTC600	6) amut tu	750	54
TTL600	6	390	12
CSA600	1	195	10
CSC600	(3) wh (3 1018)	255	15
DDA600	1	680	52
DSCHF	1	3 360 Allpria	257
DSUIOF	2	8 200	1 070
AMM600 32 K	1	4 475	292
008030	1	420	28
MTC404	1	1 545 - 211 pria	114
MTH373 (tope Prises)	6	5 370	780
CRZ 201	1	680	121
CPZ201	1	860	154
PRT202	1	1 665	320
PSC200		175	13
OPT510	15	630	45
WG8031	1	320	36
OPT325	1	<u> 17</u>	1
		104 566	8 760
MODEL Que 1 B	AUGMENTATION EQUIP		2nd SHIFT
~ ·	QTY.	BASIC MO. RENTAL	MAINT.
DSU10F	1	4 100	535
CP8031	1	14 560	952

21	nd SHIFT
	MAINT.
DSU10F 1 4 100	535
CP8031 1 14 560	952
MM8040 3214 1 6 760	442
OPT302 1 64	6
OPT315 1 105	7
AMM500 7116 1 4 475	292

ATTACHMENT | (continued)

MODEL		QTY.	BASIC MO. RENTAL	2nd SHIFT MAINT.
CAB501		1	260	17
CLK500		1	760	50
AMM500	3216	1	4 475	292
AUM500	32 K	1	4 475	292
MSW500		1	50	3
EMU302 📤	- 2m Orum	1	12 430	1328
DC8031		1	5 620	368
HPC500		1	680	46
TTA500.		2	840	58
TTC500		4 ? does not provide call brokens	500	36
TTL:500		4) Cill breaking	260	8
CSA/500	CAR Z wand	1 } 7 mm NEDS	195	10
CSC600	Arc M	3	255	15
C0803D	dud.	1	420	28
MTC.404		I Second Tige Consorder ?	1 545	114
MTH301		4	2 460	352
PRT:202		1	1 665	320
CPZ:201		1	860	154
CRZ:201		1	680	121
MG8031	R	1	320	36
OPT825	Mr ses ?	1	17	1
	1.4		68 831	5 883

