File Memo: STRETCH

Subject:

Computer Operation - Multi-program Control

Floyd E. Johnston, Applied Science Representative - Los Alamos, has hit upon a technique of making multiprogramming seem more plausible and workable to the skeptic. His technique is education. Enclosed is his flow chart that shows how three problems might well look if multiprogrammed.

His flow chart is not peculiar to STRETCH and may well find interest to those outside the STRETCH program. For that reason it is being distributed to them.

Jack C. Gibson

JCG/jv Enc.

MULTI PROGRAM COUTROL

If more than one program is to be operating at one time in a machine, a simple method of expressing the control must be devised. In this example the flow chart shows the control of three programs. The lines S_i represent switches within the master control. The switches I, II etc. represent shorting switches for S₁, S₂ etc. The master program would create those switches as they are needed.

Any program must be written in Logical Sections and each section capable of running in any section of memory. The program will be read in from tape with the number of 1/O tapes it requires and the blocks of storage it needs.

Problem I	Problem II	Problem III
A input	D input	G input
Compute 1	Compute 3	Compute 5
3 output	a output	H output
C input	Compute 4	Compute 6
Compute 2	Output II	Output III
Outmet I		

Output I

