

December 5, 1968

Dr. Richard E. Gordon  
Acting Medical Director  
Computer Sciences  
J. Hillis Miller Health Center  
University of Florida  
Gainesville, Florida 32601

Dear Dick,

Enclosed are the specifications for running our period analysis program on the IBM 1800. It runs under the Time Sharing Executive System (TSX) and requires a minimum of 16,000 locations of core storage. The associated disk file requires 205 sectors of 2310 disk storage. The following is a list of the routines required for this system and a brief statement as to the purpose of each one:

RESRT - This is the main program which reads input parameters, initializes process and error indicators, prints output, builds disk file and calculates means and standard deviations.

INPUT - is an assembly language subroutine which samples analog input and keeps zero cross, first derivative and amplitude data.

DELAY - delays sampling to allow the technician time to artefact previous sample.

MYERR - sets I/O error indicators in COMMON.

LOGBL - writes on the typewriter the number of XIO BLAST instructions executed during each epoch.

CONVP - rounds numbers for printing.

FLASH - flashes a light on the EEG console and waits for the start button to be depressed before returning to RESRT.

CAN - is the analog interrupt routine.

SETUP - sets the address for the timer interrupt.

The coreload is built as SIGMA. Sampling rate, epoch length, analog input point, number and frequencies of bands to be analyzed are all variable parameters entered through cards.

PAPRL - is the name of the program which calculates statistics from the raw EEG output. The following routines are necessary to build the core load:

PSTAT - is the main program which calculates statistics and prints out either both the raw data and statistical data or just the statistical data.

ROUND - rounds raw data and prints one line on the 1443.

DININ - reads one record of data from the disk file.

The cards are being sent separately. If we can be of additional help, please call.

Sincerely yours,

Max Fink, M.D.  
Professor of Psychiatry

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