TO: Multics Planning Meeting

FROM: F. J. Corbató

DATE: September 3, 1969

SUBJECT: Odd facts culled from notes taken at the IBM TS workshop -
         Week of July 28, 1969

-- Dartmouth bills 4000-5000 different users each month! (This could

   mean accesses (?))

-- TSS w/ 20 users: wired proc & data = 250K byte

                     paged supervisor = 2 M byte

                     paging space = 512K byte

-- Dartmouth system on GE635 w/ 96K words core serves 80-90 users

   (each user has 16K core usage); they expect to serve 105-110 users

   when system has 128K words.

-- TSS installations:

Customers:

            Indian Hill (2 cpus)

            Nasa-Lewis (Cleveland)

            Carnegie-Mellon

            Princeton (I've since heard they quit)

            IBM Research, Yorktown Heights

            (Michigan)

            (Naval Post Graduate)

System Maintenance:

            Mohansic (2 systems)

            "Triangle Shopping Center" (2 systems)

            Kingston (4 systems - can be used if available)

-- TSS is calibrated with a script of debugging a simple fortran program (30 statements).

> The system is loaded up with users until trivial commands have a response time of < 3 seconds and "medium" commands take < 7 seconds.

> Current (July 1969) performance with a system with 1 M bytes of core and 2-3 drums is 80 script users!

-- DEC has a PDP-10 Fortran Compiler (out of Digitek) which is 8K in initial size; (it has tables which expand with program size). (Some persons in IBM were rather keen on the implications this would have for TSS).

-- Dartmouth (Kurtz) has investigated heavily ways to bring down leased line and modemn costs by means of FM multiplexing and line concentrating.

-- One IBM customer (an insurance company) has 50-2314 disk files installed!