Considerations concerning CAL TSS support for users during Spring quarter '71.

A) The system as of today:
   1) As of this writing, the system won't support any users because:
      a) The system of permanent directories is not installed (estimate 26 March)
      b) Allocation of various memory resources isn't controlled, making the system crushable (estimate 26 March)
      c) The disk dump procedure blows up (estimate 19 March)
   2) Critical software is currently missing:
      a) SCOPE simulator (estimate 22 March)
      b) PRINTER DRIVER ( )
      c) Other peripherals, reader, tape (estimate 18 April)

B) The system for next quarter:
   All problems under 1 must be fixed and 2a, 2b are highly desirable before serious users can be supported. Granting the successful repair of these shortcomings, we find:

   * except "trivial users", who don't want to keep files on the system
c) Scheduling of the machine.

1) Teletype hours available. This will simply be 15 * (number of hours the system is up for users). Currently, this is 4 hrs/day or 60 TTY hrs/day.

300 TTY hrs/week. It can be extended by increasing the weekday schedule + scheduling weekends, but doubling it is the most I would expect.

2) Teletype hours required. I distinguish three broad categories of user.

a) professional or serious user, such as staff, graduate student or faculty project, such a user can easily consume several hours daily.

b) full-time class, doing all its projects on TSS. Up to 5 hours/week/student is not unreasonable.

c) casual class, being introduced to time-sharing, but having only an
introduction + 10-12 simple projects to do on TSS. 3 or 4 hours /quarter/student might be adequate. (This is 1/2 week)

I would like to see the CAL TSS simultaneously supporting users of all 3 categories during the coming quarter & suggest that instructors with the right kinds of classes & some professional users be sought out within the next few days.

I envision allocating hours initially by assigning priorities at certain times of day to certain groups. Possibly, the casual class users could be restricted to a particular week or weeks, but all this needs to be thoroughly discussed & understood by the parties involved as soon as practical.

An accounting scheme based on TTY hour could be installed & tested sometime during the quarter.
1) We are limited to about 15 teletypes (12 are now connected in locations accessible to users) available to users, due to the multiplexor board/record problem. I don't expect a fix prior to 18 April.

2) The software will only support ~15 users in, for example, BASIC anyway; less in SNOBOL. Some improvement will be achieved by tuning things up, but I don't expect a factor of 2. Further improvement will depend on fundamental system restructuring; it would be foolish to count on this showing happening during the coming quarter.

3) The accounting algorithms are not yet designed, let alone coded and installed. I wouldn't expect a working accounting scheme before 18 April.

In short, for the coming quarter, we should plan for a limited number of teletype hours and some accounting kludgery.
prof 20 hrs/week @ 3   60
full st.  5 hrs/week @ 20  100
part st.  0.5 hrs/week @100  50

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