

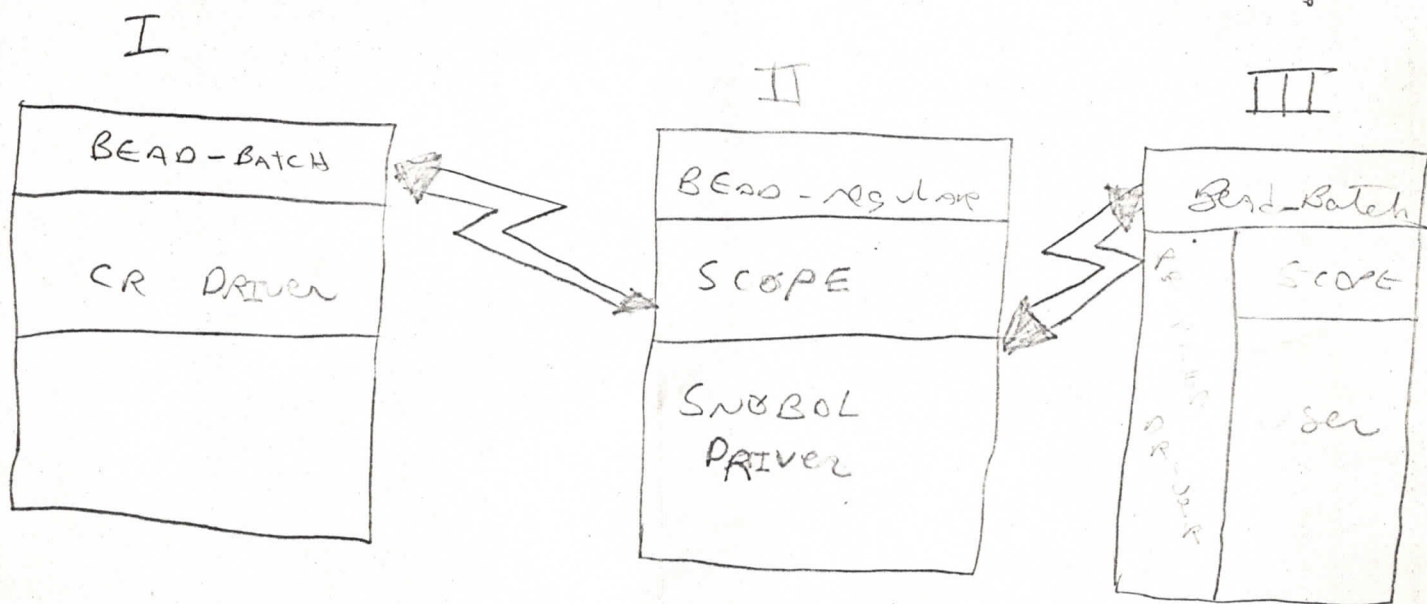
PROPOSAL FOR BATCH SYSTEM

CONSIDERATIONS

1. The proposed JOB MIX IS UNIT record BOUND, NOT COMPUTE BOUND
2. NO TAPES - REASONABLY STRAIGHT FORWARD ADDITION POSSIBLE
3. Low Level DISK system implemented Below BEAD SCOPE
4. ~~SNOBOL~~ SYSTEM modified for REAL TIME OPERATING - i.e. events
5. USE existing code where possible
6. CLOCK event channels in the system

IMPLEMENTATION PROPOSAL:

A. THE SYSTEM RUNS IN THREE PROCESSES:



THE BATCH Beads are regular Beads with simple modifications TO THE TELETYPE I/O TO COMMUNICATE ON . . FILES INSTEAD OF TELETYPE

THE SNOBOL DRIVER COMMUNICATES WITH THE TWO BEADS THROUGH THIS MECHANISM.

- B. ACCOUNTING IS DONE VIA THE SNOBOL DRIVER IN REAL TIME UNITS
- C. THE SYSTEM RUNS OFF OF A TELETYPE NEAR THE CONSOLE, MESSAGES CONCERNING ACCOUNTING GO ON THE TELETYPE OUTPUT, 1 LINE PER JOB THROUGH THE SYSTEM

III WORK INVOLVED

- A. THE SPECIAL BEADS WOULD TAKE ONE DAY TO CODE AND DEBUG. ABOUT 20 LINES OF CODE ARE INVOLVED
- B. THE SNOBOL PROGRAM IS STRAIGHT FORWARD, ABOUT ONE OR TWO PAGES
- C. THE SCOPE SIMULATOR WOULD HAVE TO KNOW ABOUT EVENT CHANNELS DESIGNED AS FILES; ABOUT ONE DAY WOULD BE REQUIRED TO ADD THIS FEATURE

IV (New) requirements for COOE

- A. THE C-R Driver would be CALLED TO read ONE FILE from The C-R w Display code, scope file format (similar to current Tape drive)
- B. The Printer driver remains unchanged
- C. The DISK system would have to be under the BEAD, interfacing solely through ECS ACTIONS.

1. a file becomes opened to the disk SYSTEM when it is created by the BEAD using CFILE, OPERATE
2. F-return read/WRITE on existing blocks
-no change
3. New additions to the file's length are known by create BLOCK operation
4. File closes are known on DESTROY file operation