Proposal for Batch System

Considerations

1. The proposed job mix is unit record bound, not compute bound.

2. No tapes - reasonably straightforward addition possible.

3. Low level disk system implemented below Bead Scope.

4. System modified for real time operating - i.e., events.

5. Use existing code where possible.

6. Clock event channel in the system.

Implementation Proposal:

A. The system runs in three processes:

I

Bead-Batch
CR Driver

II

Bead-Reader
Scope
SNORL Driver

III

Bead-Batch

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 READS 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 reads would take one day to code and debug. About 20 lines of code are involved

B. THE SNOBOL Program is straightforward, about one or two pages

C. The Scope simulator would have to know about event channel designated as files. About one day would be required to add this feature
IV

A. THE C-R DRIVER WOULD BE CALLED TO READ ONE FILE FROM THE C-R IN DISPLAY CODE, SCAPE FILE FORMAT (SIMILAR TO CURRENT TAPE DRIVER)

B. THE PRINTER DRIVER REMAINS UNCHANGED

C. THE DISK SYSTEM WOULD HAVE TO BE MODIFIED THE BLEDS, INTERFACING SOLELY THROUGH ECS ACTIONS.

1. A FILE BECOMES OPENED TO THE DISK SYSTEM WHEN IT IS OPENED BY THE READ USING CFILE, OPREATE

2. F-RETURN READ/WRITE ON EXISTING BLOCK
   - 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