

DRAFT

6/16/69

MSPM

date _____

Identification

Traffic Control Meters
J. H. Saltzer

Purpose

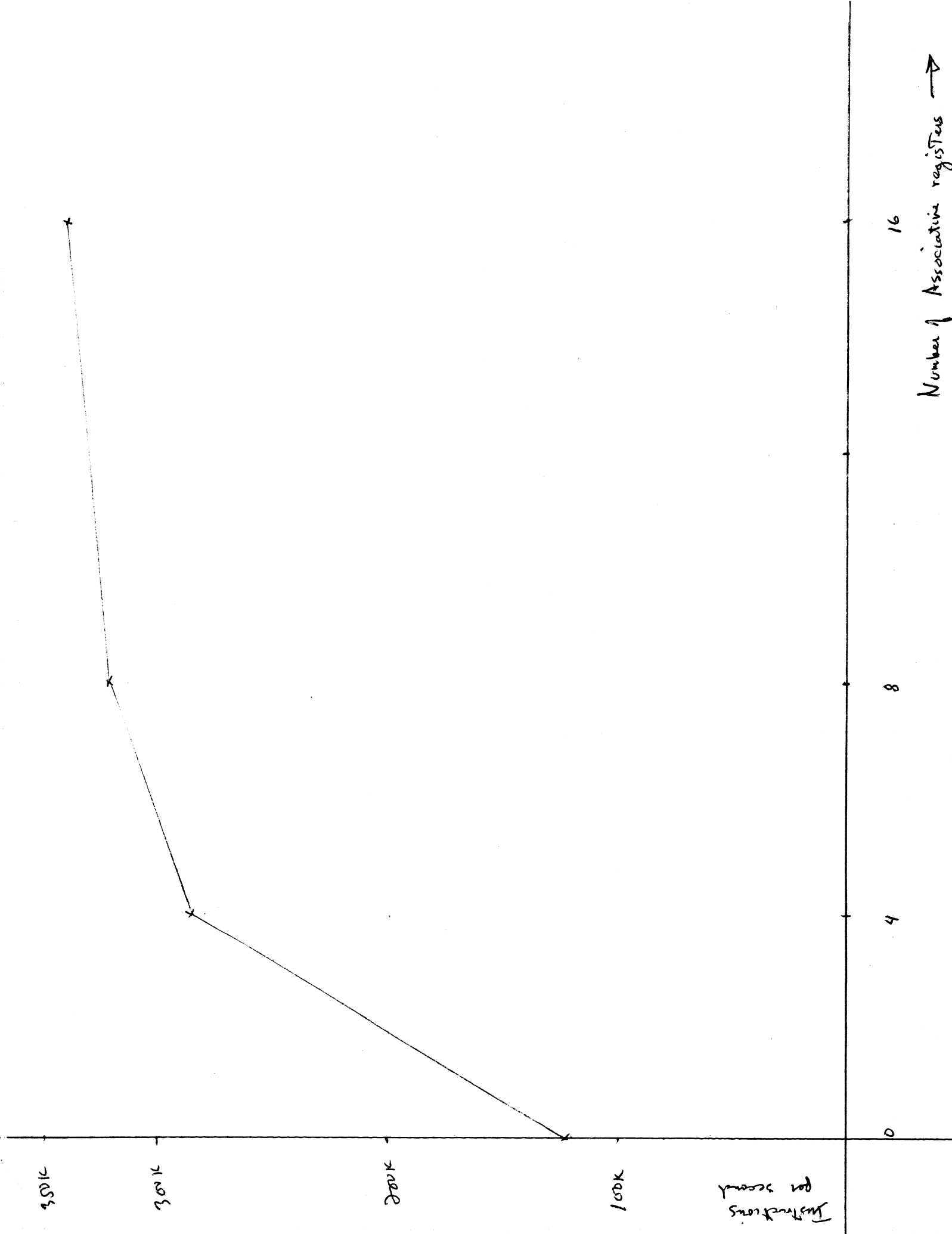
The following meters are kept by the Traffic Controller at all times.

System-wide meters

1. Total cpu time charged to ~~any process~~ ^{all processes}, including idle.
2. Total cpu time charged to all processes, excepting idle. ← could omit, since it = #1 - #3
3. Idle time:
 - a. Multiprogramming idle: all idle time accumulated while number of eligible processes = max_eligible.
 - b. True idle: all idle time accumulated while number of eligible processes < max_eligible.
4. Total number of calls to
 - a. Block, with interaction switch on.
 - b. Block, with interaction switch off. } by Queue number at time of calling Block
 - c. Wakeup
 - d. Restart ← by Queue number at time of calling Restart
 - e. Wait ^{ie. times runout}
 - f. Notify
5. Total number of process loadings.
6. Number of unblocked processes.
7. Recent average of number of processes in first user queue.

Per-Process meters.

1. ~~ØØ~~ CPU usage (also kept in Active Meter Table.)
2. Number of calls to wait.
3. Number of calls to Block
 - a. with interaction switch on
 - b. with interaction switch off.



25

TSD

AKBS = .50

6K words

input + output



4 words per

12 words per

1 copy

1000 - 2000 characters output typical
w/ 25 users.

Max usage buffer ~ 85%

Trigger on input is 16 ch. from end of buffer

Trigger on output is 400 ch from end for AKBS
60 ch for TTY (4 sec.)

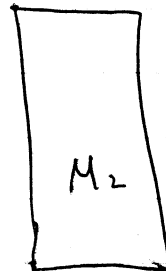
64
24
3
—
91

48
24
3
—
75

150
48 | 6000

M₁

2^j = m



2^k = n