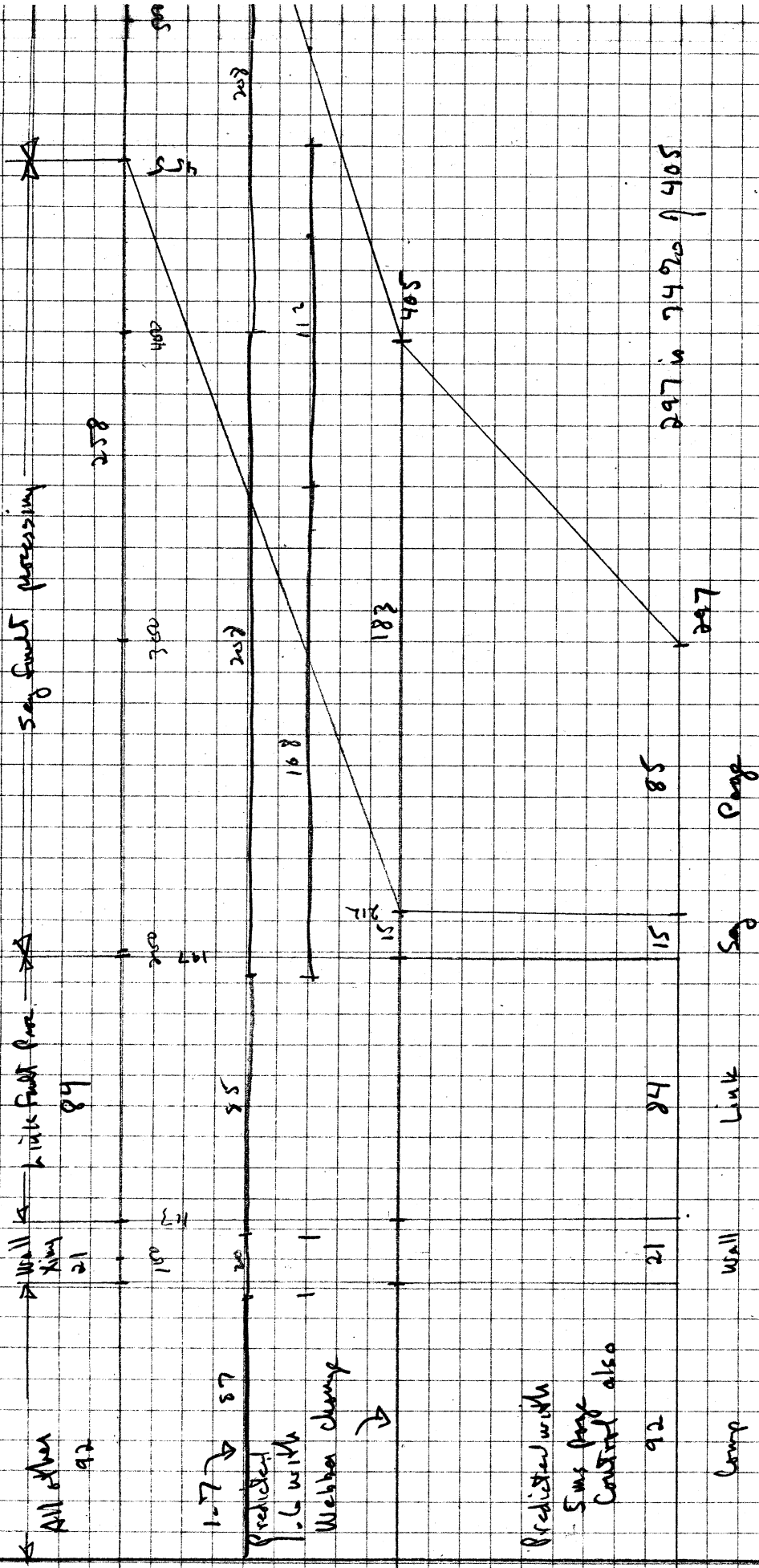


Case 3.4 running time (in seconds)

Multi programming

Q11

1.6 (measured)

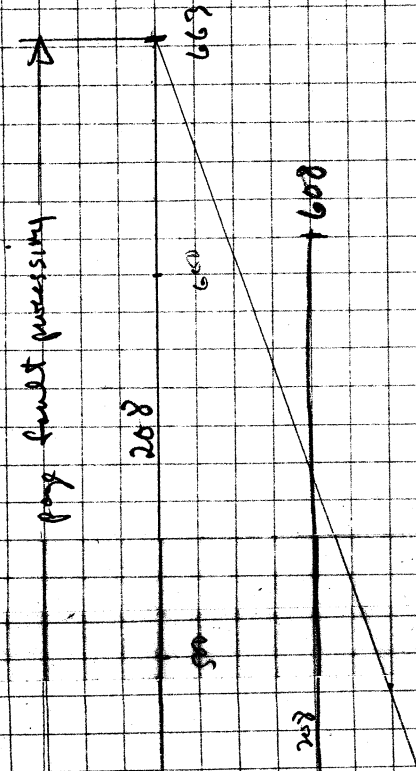


Predicted with
5ms page
Control also

Observed with

1. Page should number must be reduced (Q11)
2. Link fault (Make known) time must

11/24/00
S, A-S.



405 is 61% of 663

Assumes:

1. Segment distribution unchanged
 Seg fault number goes from 546.7 \rightarrow 400
 (5600 disappear)
 2. Every segment produces 0.5 page faults
 thus page fault number reduced by 2800
 3. ~5000 forked page faults are missed
 by being handled entirely at page fault time
 Average goes from 17.1 \rightarrow 17.5 ms
 4. Removal of seg faults will reduce average
 page fault time by 4ms
 17.5 \rightarrow 13.5 ms
- (Expect 13,000 page faults before allowing
 for internal pressure on core)

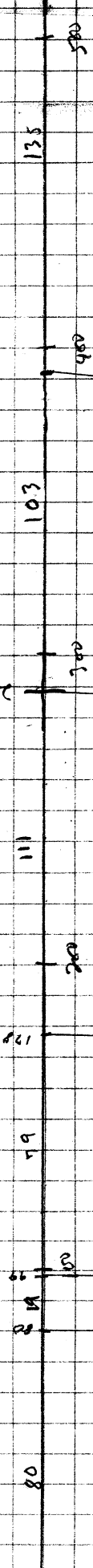
read (combined by laying off flush, which produces 2000 of 13,000 faults)

time must be used

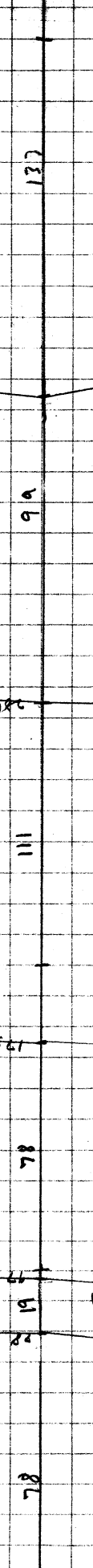
Certifier 3.4 running time all times in seconds

Multi program

1.5 (measured)



1.6 (measured)



All other

Well fault processing

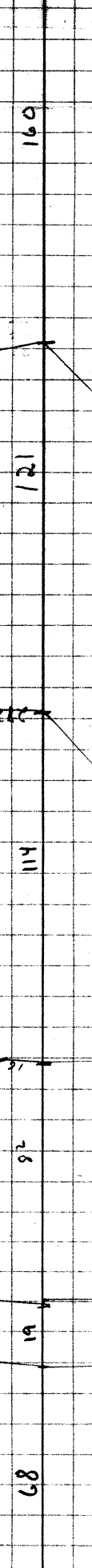
Link fault processing

Seg fault processing

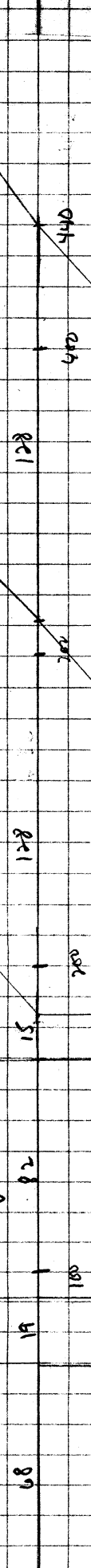
Page fault computation

Drum latency

1.7 (measured)



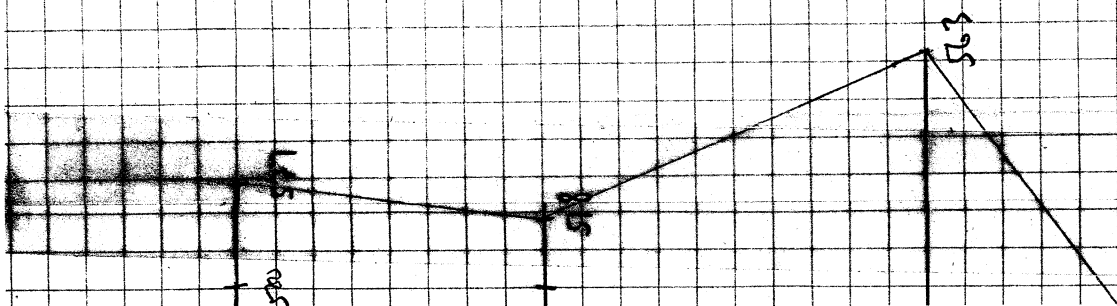
Predicted effect of Wellbar change to 1.7 system



Predicted effect of 5ms average page control



11/24/68
J.A.S.



Assumes

1. Seg fault distribution unchanged
Seg fault number goes from 2959 to 400
2. Every seg fault produces 0.5 page faults;
page fault number reduced by 1280
3. 20,000 fore-shortened page faults are increased in length
by being handled serially at page fault time rather than in
part at seg fault time. page fault time increase from
30.0 ms to 35.9 ms
3. (Revised) seg faults code in p.c. reduce memory page fault
time by 4 ms. 35.9 to 31.9 ms

Expect ~ 8000 page faults
we've effect of increased
pressure on code is taken
into account