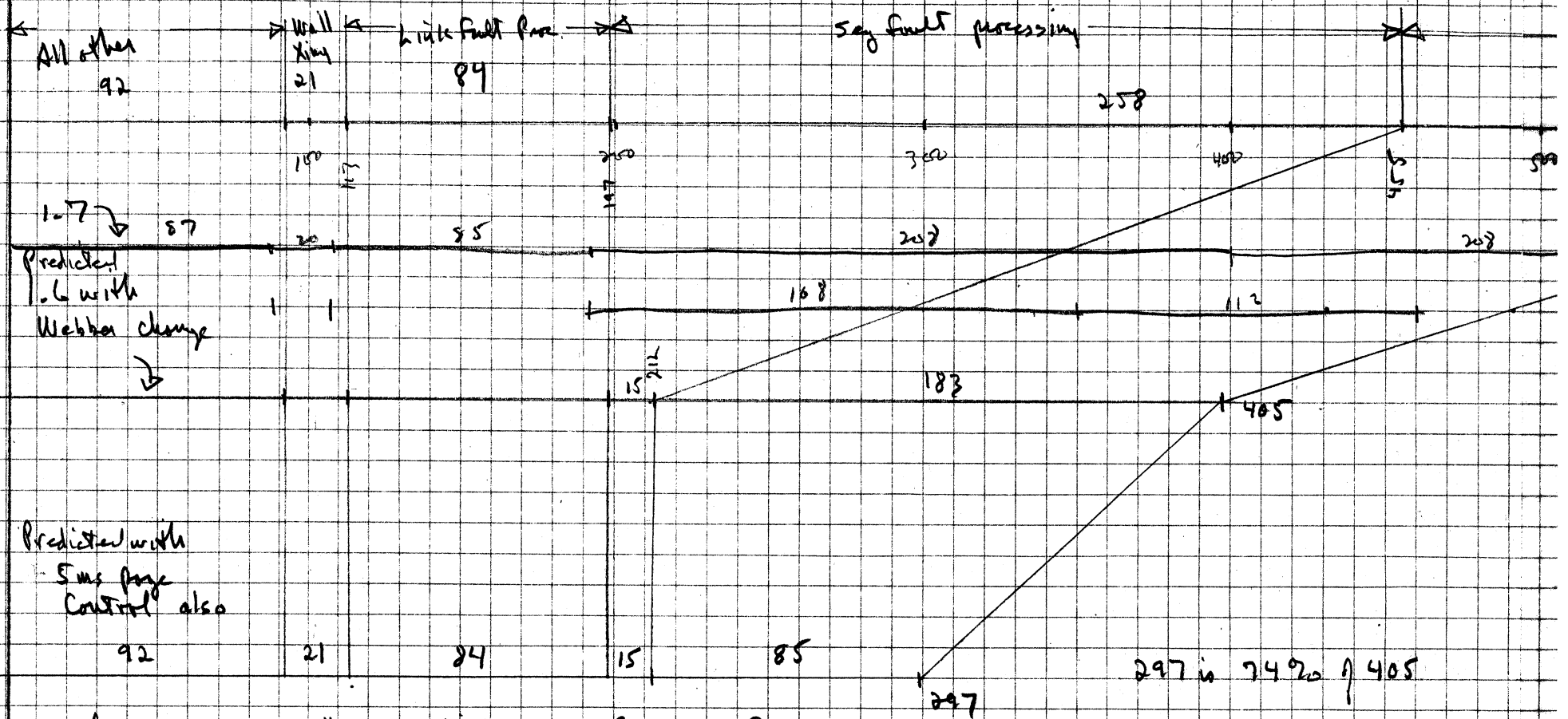
Certification 3.4 running time (in seconds)

Multiprogramming

ON

1.6 (Measured)



Observations

1. Page fault numbers must be reduced (pa

2. Link fault (Make known) time must

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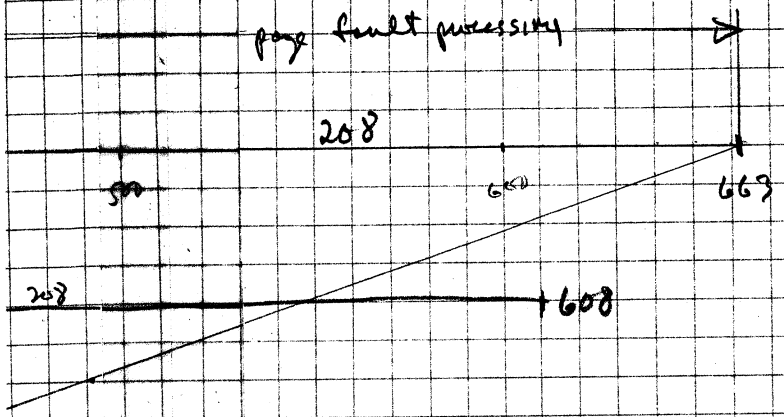


405 is 61% of 663

Assumes

1. Seg fault distribution unchanged

   Seg faults number goes from 5967 → 400
   (5600 disappear)

2. Every seg fault produces 0.5 page faults
   thus page fault number reduced by
   2800

3. ~5000 for short real page faults are increased
   by being handled entirely at page fault time

   Average goes from 12.1 → 17.5 ms

4. Removal of seg faults works reduces average
   page fault time by 4 ms

   17.5 → 13.5 ms

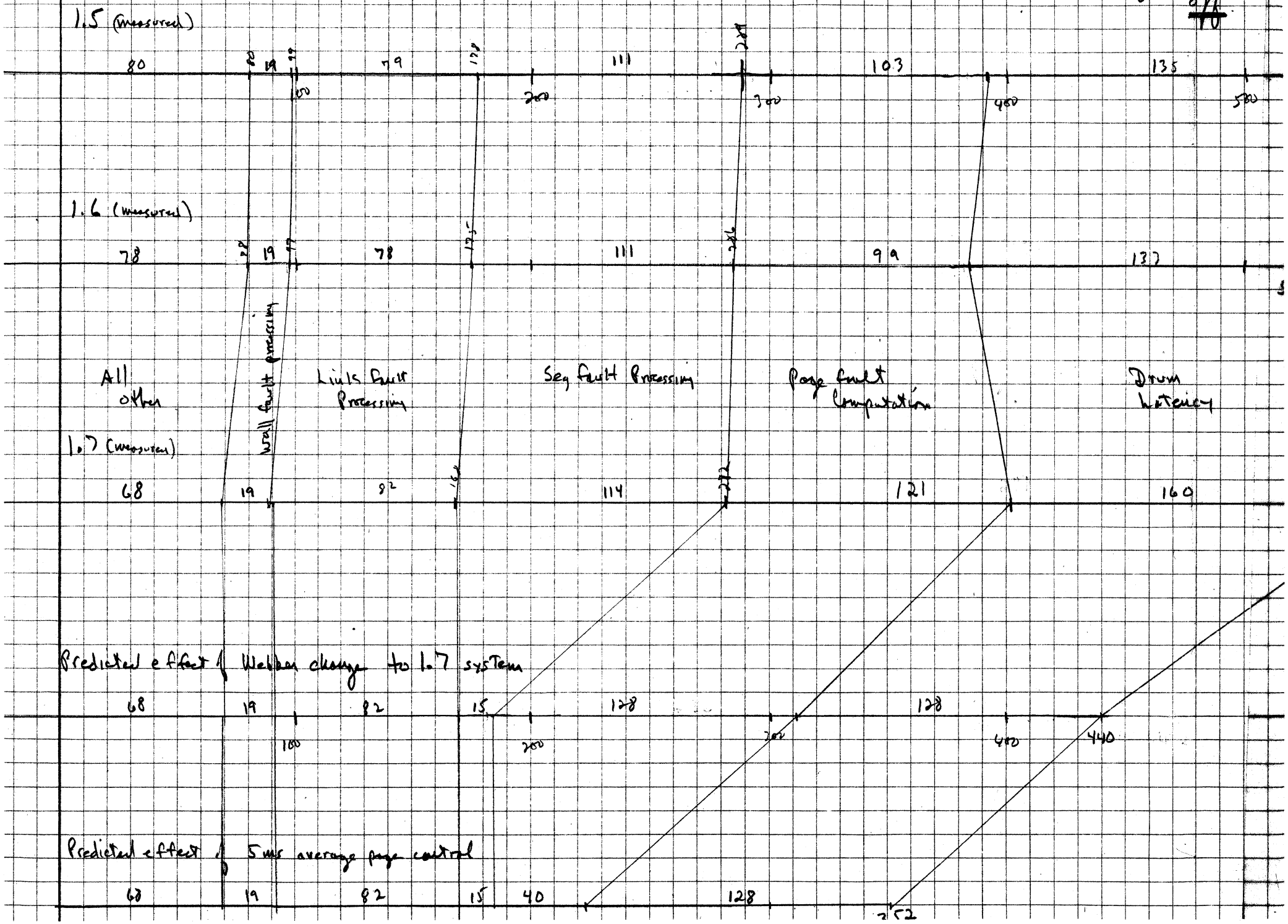
(Expect 13000 page faults before allowing
for increased pressure on core)

ased (perhaps by laying off flush, which produces 2000 of the 13000
fault/s)

time must be investigated

Certifier 3.4 running time all times in seconds

Multiprogramming



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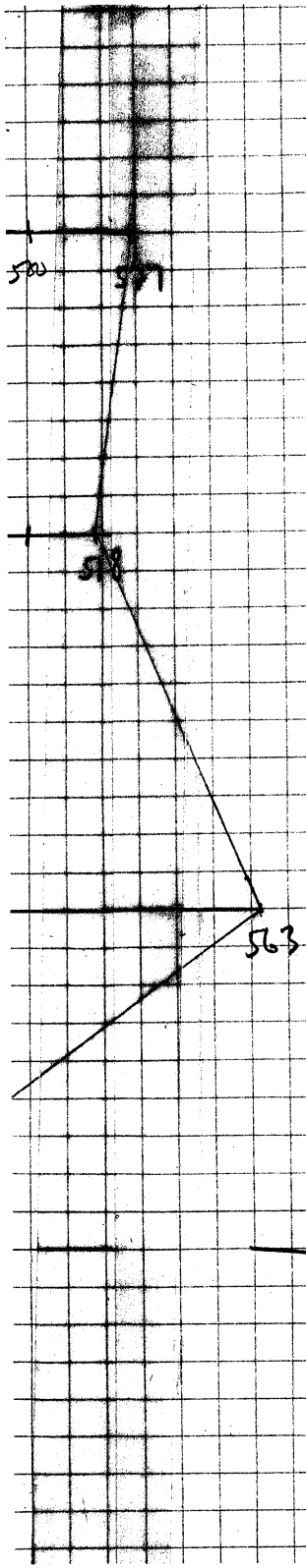

Assumes

1. Seg fault distribution unchanged
   Seg fault number goes from 2959 → 400

2. Every seg fault produces, 0.5 page faults;
   page fault number reduced by 1280

3. ~2,000 fork shortened page faults are increased in length by being handled entirely at page fault time rather than in part at seg fault time. page fault time increases from 30.0 ms → 35.9 ms

3. Removal of seg faults cuts in p.c. reduces average page fault time by 4 ms. 35.9 → 31.9 ms

→ Expect ~8000 page faults before effect of increased pressure on code is taken into account