Assume 1 cpu, 256k core

1. n users produce $0.8n$ interaction per minute

Each interaction must take $\frac{0.95}{.8n}$ minutes, or $\frac{60 \times .95}{.8n}$ seconds, or $\frac{71.25}{n}$

allowing 5% of processing time to absorb peaks.

$t_i \leq 72/n$ seconds.

| n | average $t_i$, seconds |
|---|---|
| 8 | 9 |
| 16 | 4.5 |
| 32 | 2.25 |
| 64 | 1.125 |

2.