Thrashing behavior

\[ \rightarrow \text{ as a function of (maximum) memory usage} \]

Application completion time:
Application CPU time:
Time dynamics: page fault rate and disk I/O rate
Time dynamics: idle process CPU time

why is idle process CPU time so large?
Impact of application memory referencing behavior:

![Graphs showing memory usage and page fault rate over simulation time.](image)
Impact of application memory referencing behavior:

- Memory usage (MB) over simulation time (sec)
- Page fault rate (#/sec) over simulation time (sec)