Assignment 3
ECEN-407
Operating Systems

Page Replacement
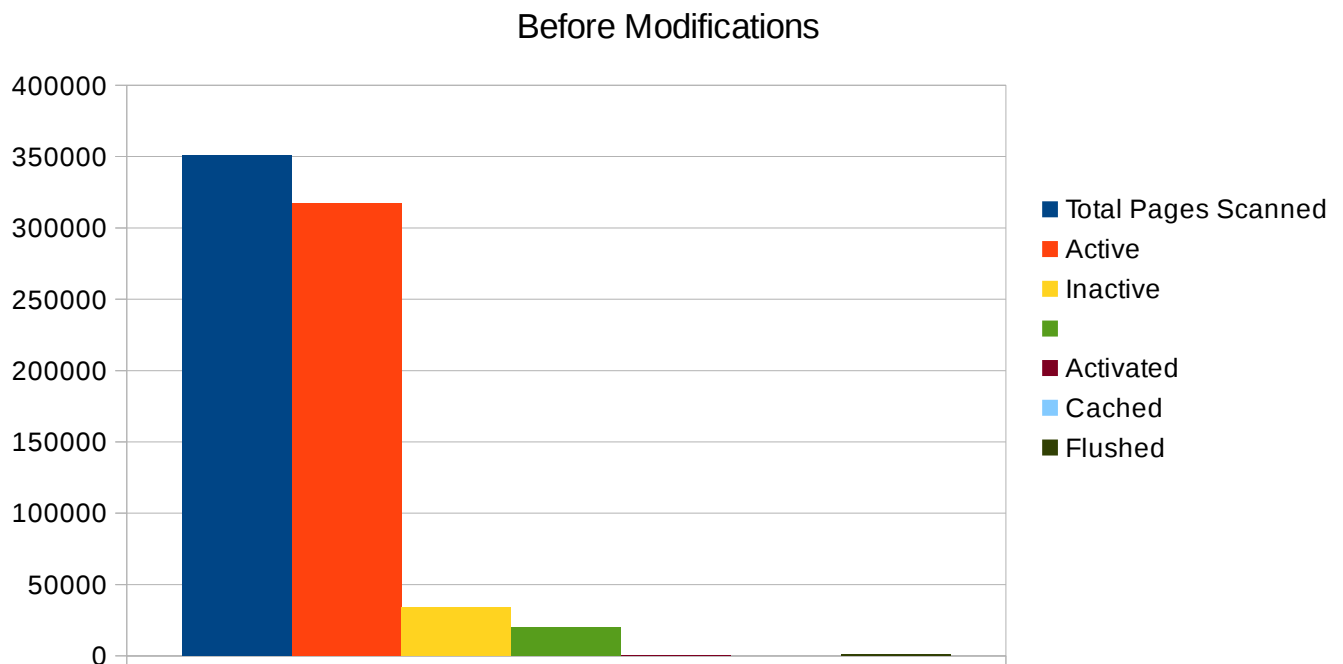Submitted By: Omar Gaber El-Sayed

Comparison between stats prior to and post modifications:

The stress test was carried out by the following command:

stress --cpu 1 --vm 512 --timeout 30s --vm-keep

Spawned 512 workers for 30 seconds

- The statistics generated and recorded in Stats.xlsx indicate that the average total pages scanned before modifications are more than that after the modifications.

- None are cached in either attempts.

- The difference in number of active and inactive pages before modifications is more than the difference between active and inactive pages after the modifications with active pages being more in number.

- Number of activated pages seem to be similar before and after modifications

- After modifications, the number of deactivated pages decreases.

- There is a minor rise in the number of flushed pages after adding the modifications.

Before Modifications

After Modifications

Legend:
- Total Pages Scanned
- Active
- Inactive
- Deactivated
- Activated
- Cached
- Flushed