analyze the consequences of using different values of N and each of the two modifications to the data structure

N (dimension of grid)

Time in milli-seconds

|  |  |  |
| --- | --- | --- |
| N | Time Fast (ms) | Time Slow (ms) |
| 10 | 0.000515933166666667 | 0.000193199366666667 |
| 25 | 0.000164574466666667 | 0.000318548133333333 |
| 50 | 0.000640736300000000 | 0.001346714933333330 |
| 100 | 0.002461562933333330 | 0.014728208000000000 |
| 250 | 0.029385277266666600 | 0.511118716633333000 |
| 500 | 0.216461616966666000 | 7.929297484766660000 |

Mean Threshold

N (dimension of grid)

|  |  |  |
| --- | --- | --- |
| N | Mean Threshold Fast | Mean Threshold Slow |
| 10 | 0.606 | 0.590666667 |
| 25 | 0.579253333 | 0.596106667 |
| 50 | 0.595653333 | 0.59436 |
| 100 | 0.597226667 | 0.596096667 |
| 250 | 0.5926416 | 0.5957856 |
| 500 | 0.592122267 | 0.593898267 |