Mike Banning

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CSE 557 – Assignment 1 – HyperQuicksort

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2)

a) Observed T(N,P)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| T(N,P) | 32,768 | 65,536 | 131,072 | 262,144 | 524,288 |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| 4 |  |  |  |  |  |
| 8 |  |  |  |  |  |
| 16 |  |  |  |  |  |

b) Speedup

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| S | 32,768 | 65,536 | 131,072 | 262,144 | 524,288 |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| 4 |  |  |  |  |  |
| 8 |  |  |  |  |  |
| 16 |  |  |  |  |  |

c) Efficiencies

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| P | 32,768 | 65,536 | 131,072 | 262,144 | 524,288 |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| 4 |  |  |  |  |  |
| 8 |  |  |  |  |  |
| 16 |  |  |  |  |  |