Perry

|  |  |  |  |
| --- | --- | --- | --- |
| Lo2Hi | 1000 | 2000 | 4000 |
| Compares | 499500 | 1999000 | 7998000 |
| Swaps | 0 | 0 | 0 |

|  |  |  |  |
| --- | --- | --- | --- |
| Hi2Lo | 1000 | 2000 | 4000 |
| Compares | 499500 | 1999000 | 7998000 |
| Swaps | 500 | 1000 | 2000 |

|  |  |  |  |
| --- | --- | --- | --- |
| Random | 1000 | 2000 | 4000 |
| Compares | 499500 | 1999000 | 7998000 |
| Swaps | 997 | 1986 | 3994 |

Comparison ratios

|  |  |  |
| --- | --- | --- |
| Compares 1000 | Compares 2000 | Ratio |
| 499500 | 1999000 | 1 : 4.002 |

|  |  |  |
| --- | --- | --- |
| Compares 2000 | Compares 4000 | Ratio |
| 1999000 | 7998000 | 1 : 4001 |

As the number of values to compare doubles, the number of comparisons quadruples.