Tabla 1. Desempeño del periodo de reloj

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Algoritmo | N | | Periodo  del reloj  (ns) | Estimado  (ns) | Toleracia  (ns) |
| Bubble  sort | | 4 | 10 | 5.16 | 1.25 |
| 16 | 10 | 5.16 | 1.25 |
| 64 | 10 | 5.48 | 1.25 |
| 256 | 10 | 5.48 | 1.25 |
| Selection sort | | 4 | 10 | 6.53 | 1.25 |
| 16 | 10 | 6.53 | 1.25 |
| 64 | 10 | 6.85 | 1.25 |
| 256 | 10 | 6.85 | 1.25 |
| Insertion sort | | 4 | 10 | 5.16 | 1.25 |
| 16 | 10 | 5.16 | 1.25 |
| 64 | 10 | 5.48 | 1.25 |
| 256 | 10 | 5.48 | 1.25 |
| Heap sort | | 4 | 10 | 6.53 | 1.25 |
| 16 | 10 | 6.53 | 1.25 |
| 64 | 10 | 6.85 | 1.25 |
| 256 | 10 | 6.85 | 1.25 |

Tabla 2. Desempeño de latencia

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Algoritmo | N | Latencia | | Intervalo | |
| Mínimo | Máxima | Mínimo | Máximo |
| Bubble  sort | 4 | 2 | 34 | 3 | 35 |
| 16 | 2 | 514 | 3 | 515 |
| 64 | 2 | 8194 | 3 | 8195 |
| 256 | 2 | 131074 | 3 | 131075 |
| Selection sort | 4 | 2 | 35 | 3 | 36 |
| 16 | 2 | 527 | 3 | 528 |
| 64 | 2 | 8255 | 3 | 8256 |
| 256 | 2 | 131327 | 3 | 131328 |
| Insertion sort | 4 | 2 | 26 | 3 | 27 |
| 16 | 2 | 482 | 3 | 483 |
| 64 | 2 | 8066 | 3 | 8067 |
| 256 | 2 | 130562 | 3 | 130563 |
| Heap sort | 4 | 2 | 201 | 3 | 202 |
| 16 | 2 | 2811 | 3 | 2812 |
| 64 | 2 | 43491 | 3 | 43492 |
| 256 | 2 | 690051 | 3 | 690052 |

Tabla 3. Consumo de hardware

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Algoritmo | N | BRAM | DSP | FF | LUT |
| Bubble  sort | 4 | 0 | 0 | 33 | 39 |
| 16 | 0 | 0 | 43 | 51 |
| 64 | 0 | 0 | 53 | 64 |
| 256 | 0 | 0 | 63 | 76 |
| Selection sort | 4 | 0 | 0 | 115 | 151 |
| 16 | 0 | 0 | 125 | 158 |
| 64 | 0 | 0 | 135 | 165 |
| 256 | 0 | 0 | 145 | 171 |
| Insertion sort | 4 | 0 | 0 | 33 | 41 |
| 16 | 0 | 0 | 45 | 54 |
| 64 | 0 | 0 | 55 | 66 |
| 256 | 0 | 0 | 65 | 79 |
| Heap sort | 4 | 0 | 0 | 193 | 247 |
| 16 | 0 | 0 | 215 | 272 |
| 64 | 0 | 0 | 237 | 296 |
| 256 | 0 | 0 | 259 | 321 |