

RESULTADOS EJERCICIOS MPI - CLUSTER ARENAL

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| E1 | WTime | | | Aceleración | | | Eficiencia | | |
|----|------------|-------------|--------------|-------------|-------------|--------------|------------|-------------|--------------|
| | cv = 1,000 | cv = 10,000 | cv = 100,000 | cv = 1,000 | cv = 10,000 | cv = 100,000 | cv = 1,000 | cv = 10,000 | cv = 100,000 |
| p | | | | | | | | | |
| 1 | 0.0003 | 0.0024 | 0.0215 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 2 | 0.0002 | 0.0012 | 0.0118 | 1.5621 | 1.9279 | 1.8189 | 0.7811 | 0.9640 | 0.9095 |
| 4 | 0.0002 | 0.0007 | 0.0051 | 1.5086 | 3.5913 | 4.1879 | 0.3771 | 0.8978 | 1.0470 |
| 8 | 0.0002 | 0.0004 | 0.0030 | 1.7255 | 5.7098 | 7.1257 | 0.2157 | 0.7137 | 0.8907 |

| E2 | WTime | | | Aceleración | | | Eficiencia | | |
|----|------------|-------------|--------------|-------------|-------------|--------------|------------|-------------|--------------|
| | cv = 1,000 | cv = 10,000 | cv = 100,000 | cv = 1,000 | cv = 10,000 | cv = 100,000 | cv = 1,000 | cv = 10,000 | cv = 100,000 |
| p | | | | | | | | | |
| 1 | 0.0002 | 0.0016 | 0.0154 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 2 | 0.0001 | 0.0008 | 0.0077 | 1.8316 | 1.9457 | 1.9885 | 0.9158 | 0.9728 | 0.9943 |
| 4 | 0.0001 | 0.0005 | 0.0039 | 1.9551 | 3.5022 | 3.9429 | 0.4888 | 0.8756 | 0.9857 |
| 8 | 0.0008 | 0.0013 | 0.0026 | 0.2161 | 1.2370 | 5.8813 | 0.0270 | 0.1546 | 0.7352 |

| E3 | WTime | | | Aceleración | | | Eficiencia | | |
|----|------------|-------------|--------------|-------------|-------------|--------------|------------|-------------|--------------|
| | cv = 1,000 | cv = 10,000 | cv = 100,000 | cv = 1,000 | cv = 10,000 | cv = 100,000 | cv = 1,000 | cv = 10,000 | cv = 100,000 |
| p | | | | | | | | | |
| 1 | 0.0414 | 19.5774 | inf | 1.0000 | 1.0000 | n/a | 1.0000 | 1.0000 | n/a |
| 2 | 0.0285 | 14.5600 | inf | 1.4512 | 1.3446 | n/a | 0.7256 | 0.6723 | n/a |
| 4 | 0.0186 | 9.3329 | inf | 2.2285 | 2.0977 | n/a | 0.5571 | 0.5244 | n/a |
| 8 | 0.0115 | 5.2720 | inf | 3.5902 | 3.7135 | n/a | 0.4488 | 0.4642 | n/a |

| E4 | WTime | | | Aceleración | | | Eficiencia | | |
|----|------------|------------|-------------|-------------|------------|-------------|------------|------------|-------------|
| | cv = 1,024 | cv = 8,192 | cv = 65,536 | cv = 1,024 | cv = 8,192 | cv = 65,536 | cv = 1,024 | cv = 8,192 | cv = 65,536 |
| p | | | | | | | | | |
| 1 | 0.0024 | 0.0199 | 0.1463 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 2 | 0.0013 | 0.0105 | 0.0831 | 1.8706 | 1.8868 | 1.7608 | 0.9353 | 0.9434 | 0.8804 |
| 4 | 0.0009 | 0.0060 | 0.0500 | 2.7205 | 3.3201 | 2.9255 | 0.6801 | 0.8300 | 0.7314 |
| 8 | 0.0020 | 0.0054 | 0.0332 | 1.2178 | 3.6980 | 4.4066 | 0.1522 | 0.4623 | 0.5508 |

restricción: cv debe ser potencia de 2