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| **YEAR** | **TECHNIQUE(S) USED** | **KEY FINDINGS** | **PARAMETER (S) ANALYZED** | **RESEARCH GAPS** |
| 2012 | MPI-based recursive parallel algorithm for N-Queens problem | Optimized recursive parallel implementation significantly reduces computation time. | Feedback time (computation time) using different problem sizes (10, 11, 12, 13, etc.) and number of clients (up to 64) | Limited analysis on small problem sizes or excessive clients, indicating potential scalability issues. |
| 2017 | OpenMP with parallel loops, OpenMP with asynchronous tasks | Asynchronous tasks outperformed parallel loops in both speedup and execution time, with performance varying notably between compilers. | Execution time, speedup, and compiler differences (GCC, ICC, PGI) | The reasons for compiler-based performance differences are unclear; future research could investigate other benchmarks or platforms. |
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