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\u0026 Practice by

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parallel computing is the
simultaneous use of

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multiple compute resources to solve a computational problem: A problem is broken into discrete parts that can be solved concurrently Each part is further broken down to a series of instructions Instructions from each part execute simultaneously on different processors

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Parallel Computing –

It is the use of multiple processing elements simultaneously for solving any problem.

Problems are broken down into instructions and are solved concurrently as each resource which has been applied to work is working at the same

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The total

communication time is

$(t_s + t_w)(5 \log q + 2n/q)$

resulting in the parallel

run time given by the

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following equation: TP

$$= n^3 p + (t_s + t_w)(5 \log(p n^2) + 2 n^3 p)$$

The communication time of this variant of the DNS algorithm depends on the choice of the parallel matrix multiplication algorithm used to multiply the $(n/q) \times (n/q)$ submatrices.

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