Announcement

NBS Parallel Computer Benchmark Collection

The National Bureau of Standards, since its founding, has been concerned with measurement, determining the precise values and metrics for physical phenomena. The NBS has also made significant contributions to metrology in numerous scientific and engineering disciplines. In this tradition, the Computer Measurement Research Facility (CMRF) project at NBS is developing a set of metrics and measurement techniques to characterize the performance of parallel processing systems. As part of that effort, NBS is collecting benchmark programs that represent a variety of applications which are candidates for parallel processing. NBS solicits benchmark codes from researchers and scientists. Programs which are computationally intensive, I/O intensive, vectorizable or not, and from non-numeric as well as from numeric application areas are requested. Especially welcome are programs which have been used to produce timing or speedup data on parallel computers, whose measurement results have been or may be published in the technical literature, and which are in some fairly widely used and higher level programming language such as FORTRAN, "C," LISP, Ada, etc. The NBS collection is intended as a repository of information about parallel computer benchmarking and will be open to the technical community to borrow from and contribute to as research advances.

Contributions or inquiries should be directed to:

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