Abstract

Currently the GCC compiler creates a binary file, capable of running on a single processor.

Writing parallel code for optimum utilization of multi-processor architecture involves-

* + - Mastering a complicated language
    - Understanding intricate low level details of your system!

Parallel C is a software that can parallelize any given C code without the trouble of learning a whole new language!

Parallel C is code in GNU C and it uses the extensive features of the OpenMP libraries. An input serial code is converted into a multi-threaded, memory shared model with the help of optimum job allocation algorithms and OpenMP constructs. A load sharing system is created.

For an N processor architecture, speeds up to N times have been obtained when tested with sample codes!