OpenMP (open multi-processing) is a parallel programming model based on compiler directives which allows application developers to incrementally add parallelism to their application codes.  
  
In general, OpenMP uses a portable, scalable model that gives programmers a simple and flexible interface for developing parallel applications for platforms that ranges from the normal desktop computer to the high-end supercomputers.  
  
Steps to install OpenMP:  
1 . Check the version of gcc compiler  
# gcc --version  
  
NOTE: GCC provides support for OpenMP starting from its version 4.2.0. So if the system has GCC compiler with the version higher than 4.2.0, then it must have OpenMP features configured with it.  
  
2. check whether the OpenMP features are configured into our compiler or not, using the command  
# echo |cpp -fopenmp -dM |grep -i open  
  
3. setting the number of threads  
# export OMP\_NUM\_THREADS=16  
  
Below is the sample c program to demonstrate the usage of OpenMP.

