OpenMp-Loop Scheduling

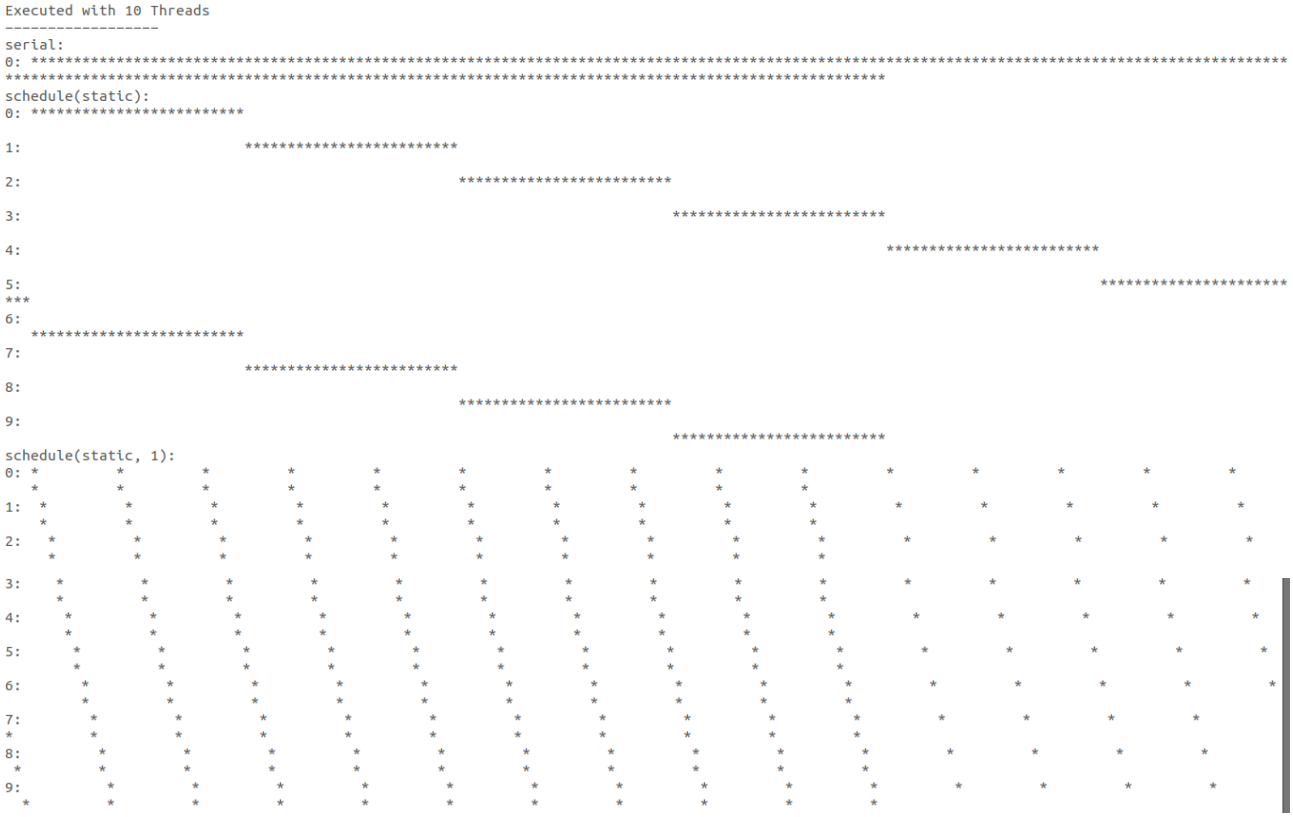
By: Rabindra Khadka

Overview:

The objective of this exercise was to observe the scheduling of loop iterations using static and dynamic schedules in OpenMp.

Outcome :

The given code in the assignment that printed ‘ *’ in a pattern was implemented by using 10 threads of a node in Ulysses. The outcome of the run has been attached below:



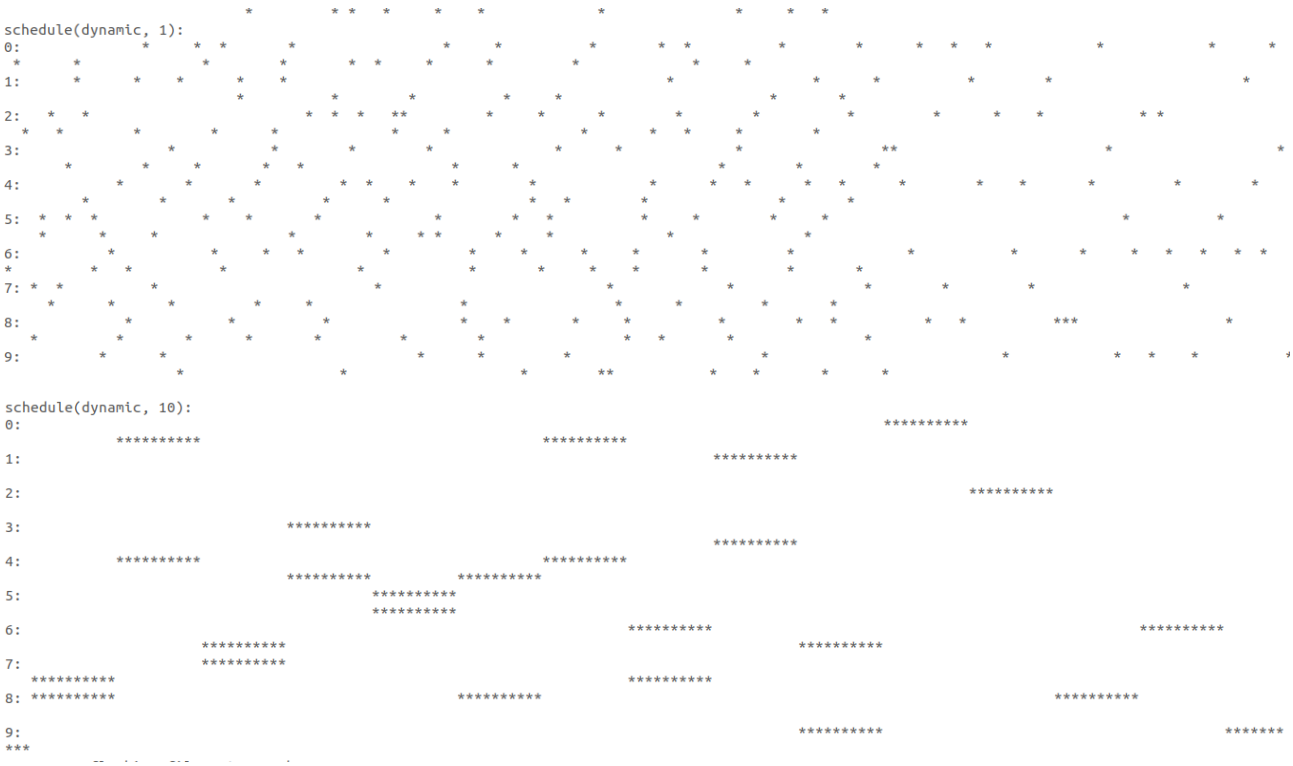


Fig 1 : Output of patterns using schedules for loop iterations in OpenMp

As seen in the figure above , dynamic schedules splits the iteration more evenly across the threads.

Build Instructions:

The file named ***'OMP_Exercise_1.2.c'*** available in github repo can be executed with the help of the attached **makefile** and the result can be obtained by submitting the code in Ulysses's node with the following command line:

qsub -l nodes=1:ppn=20,walltime=3600 -q regular print_usage.sh