

# 1 Parallel Summation

1. Parallel Summation; the given [program](#) adds  $n$  numbers both in sequential and parallel. You should
  - Analyze the code,
  - Fill the following table,
  - Make a plot of Time versus  $n$  for several *procs*,
  - Make a plot of Time versus *nproc* for several  $ns$ ,
  - Make a plot of Speed-up; Speed-up vs  $n$  for several *procs*,
  - Make a plot of Efficiency; Efficiency vs  $n$  for several *procs*,

n	nproc=1	nproc=2	nproc=3	nproc=4	nproc=5	nproc=6	nproc=7	nproc=8

Table 1: The parallel summation.

- ASSIGNMENT: (due to Dec 13) Analyze your results, cover all possible aspects.