CAB401   
  
PARALLELIZATION PROJECT REPORT

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Promoter

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# I. Original sequential application

## 1) What it does

The application is utilized to identify different promoters in reference list from Ecoli bacteria

## 2) How it works

\*\*\*Watch intro video again

# II. Potential parallelism analysis

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| Your analysis of potential parallelism within the application. This might include  identification of existing loops or control flow constructs where parallelism might be  found. Explanation of the data and control dependences that you analysed to determine  which sections of code were safe to parallelize. Which of these is likely to be of sufficient  granularity to be worth exploiting? Is it scalable parallelism? A discussion of changes  required to expose parallelism, such as replacing algorithms or code restructuring  transformations.  c. map computation to processor  It uses 3-nested for loop which runs and analyzes large text files (DNA) and is being executed in a sequential way. As a consequence, the computing time takes a substantial amount of time and could be reduced if applying parallelization. |

# III. Tools and techniques utilized

# IV. Outcomes

d. timing and profiling results, graphs

e. same results?

# V. Difficulties

# VI. Reflection