

Assignment 2

The race trap



Race Trap

- Traveling Salesman Problem is a classic supercomputing problem
- The chosen algorithm is a typical Producer-Consumer approach
- Is representative for global optimization problems
- May achieve good speedup



Story

- Not we have a map of the desert
- We can then make a race for the roadrunner
 - Each point in the race is a bag of corn
 - If the energy used to chase the bags is bigger than the energy obtained from the corn then Wile wins









Assignment

- Write a parallel version of the sequential application
- Evaluate your solution
 - Include performance graph
 - Disable graphics for this
- You must use PVM for this assignment



Decomposition

- Lends itself to bag-of-task
- Big choices are
 - What is the task size?
 - How and when is the global bound updated?



Practical issues

- Keep the report short
 - Analyses
 - Decomposition
 - Static and dynamic approaches
 - Performance
 - Graph
 - Hand in May 22th 9.15
 - That is **before** the lecture