|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **Optimisations** | | | | | | |
|  | | **None** | **-O2** | **Shapes** | **cycle checking** | **static distribution** | **OMP** | **final program** |
| **full set** | **Time** | 0.245 | 0.121 |  |  |  |  |  |
| **Speedup** | 1 |  |  |  |  |  |  |
| **empty set** | **Time** |  |  |  |  |  |  |  |
| **Speedup** | 1 |  |  |  |  |  |  |
| **seahorse valley** | **Time** |  |  |  |  |  |  |  |
| **Speedup** | 1 |  |  |  |  |  |  |
| **all in set** | **Time** |  |  |  |  |  |  |  |
| **Speedup** | 1 |  |  |  |  |  |  |
| **many num** | **Time** |  |  |  |  |  |  |  |
| **Speedup** | 1 |  |  |  |  |  |  |
| **many iter** | **Time** |  |  |  |  |  |  |  |
| **Speedup** | 1 |  |  |  |  |  |  |
| **symm catch** | **Time** |  |  |  |  |  |  |  |
| **Speedup** | 1 |  |  |  |  |  |  |

* First, -O2
* Shape detection
  + stops maxIter for obvious points
* power vs x\*x
* repetition checking
  + immediate to save on mem
  + globalise -> doubles cause issue
* cvcle checking
  + works on it’s own, but dominated by shapes
* OpenMP static
  + decent speedup
* OpenMP synamic
  + Better speedup, distribution of workload
* symmetry over x-axis
  + doubles cause issues