CSE\_179

Lab\_01

2/1/19

Task 1

Makefile

Task 2

|  |  |  |
| --- | --- | --- |
|  | Input | Output (sec) |
| 1 | 2 | 0.625745 |
| 2 | 20 | 0.638851 |
| 3 | 200 | 1.068712 |

Task 3

Task 3.1: top 6 most time - consuming routines.

1. frame\_dummy
2. EvalEOSForElems(Domain&, double\*, int, int\*, int)
3. CalcElemVolume(double const\*, double const\*, double const\*)
4. Std::vector<double, std::allocator<double>>
5. Std::vector<int, std::allocator<int>
6. \_GLOBAL\_sub\_I\_Z14CalcElemvolumePKdS0\_S0\_

Task 3.2: Explain the call graph of these 6 routines, including their parents and children routines

Based on flat profile, frame\_dummy took most of the time for the execution time. Top 3 executing time are frame\_dummy, EvalEOSForElems, and CalcElemVolume. Call graph shows “granularity: each sample hit covers 2 byte(s) for 0.07% of 15.20 seconds. For the self, frame\_dummy shows 9.97 but 0 for children. For children routines, it shows 0.00 for almost everything.



