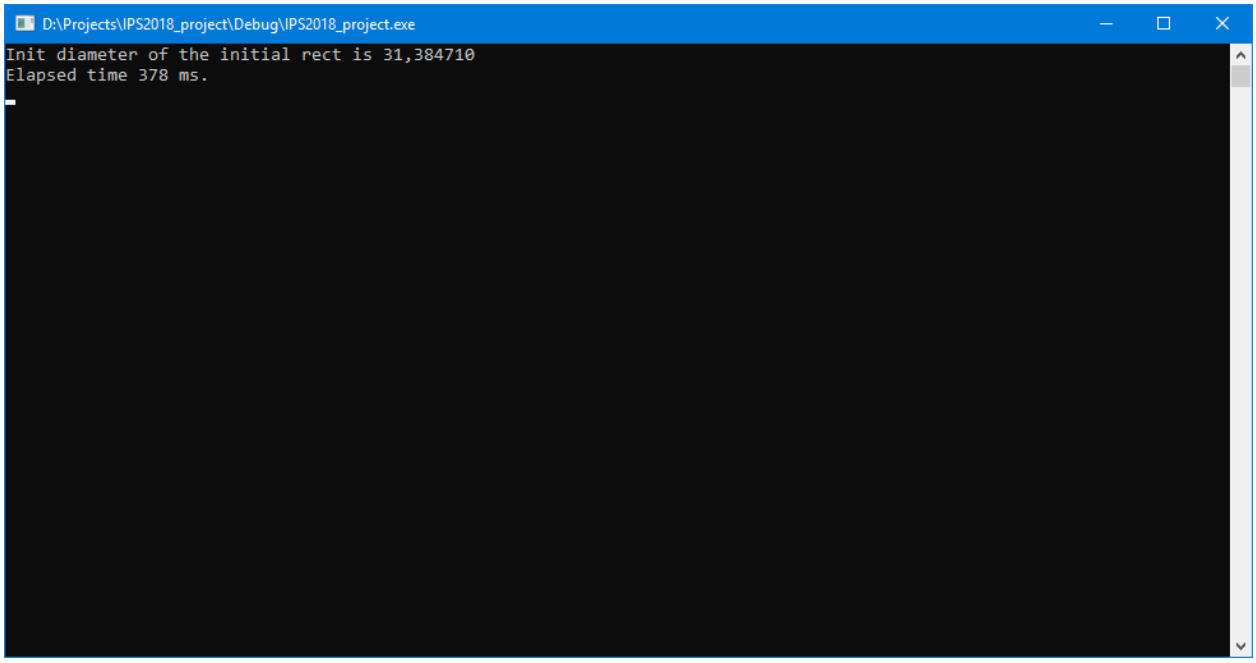
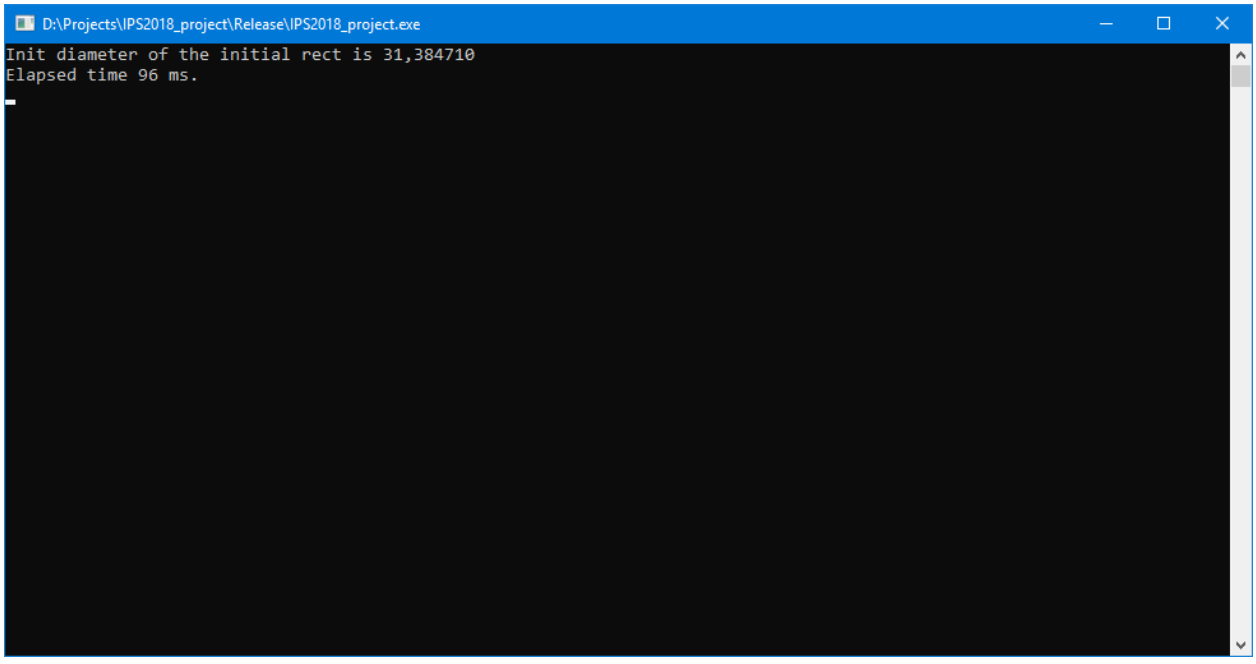
Проектное задание по курсу "Parallel Programming with IPS". Черновик №2. Задания 6-10

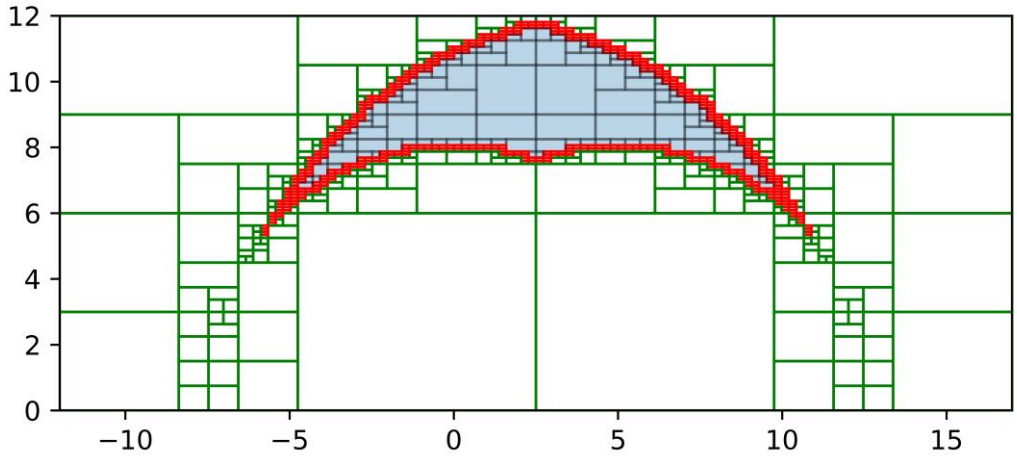
Время работы программы в режиме Debug (378 ms)



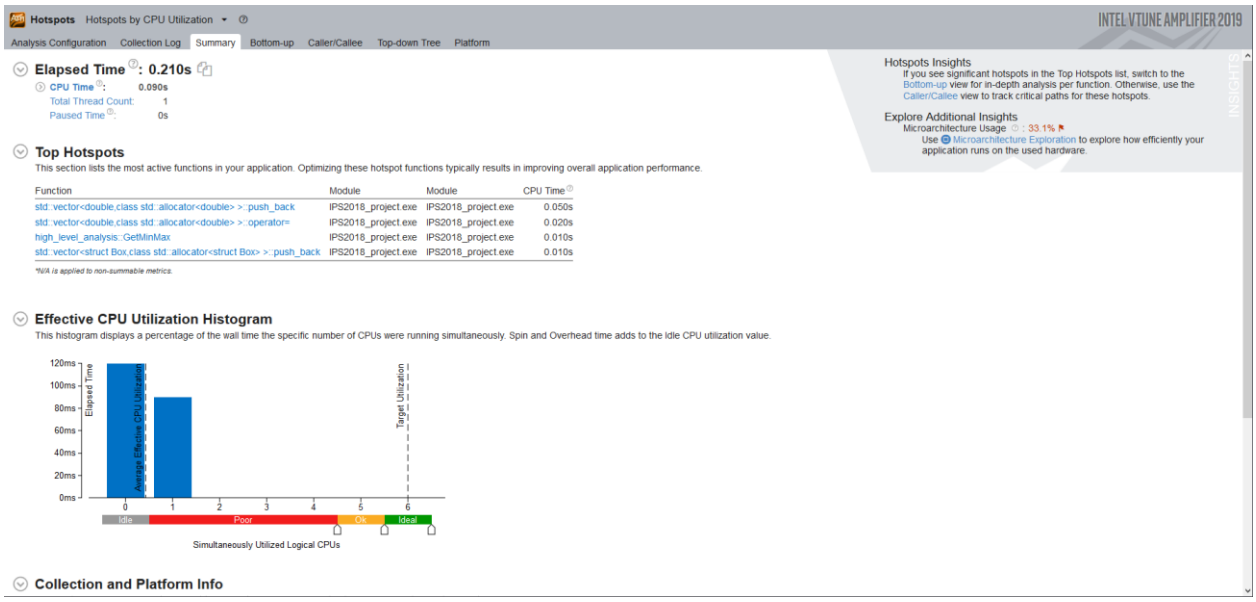
Время работы программы в режиме Release (96 ms)

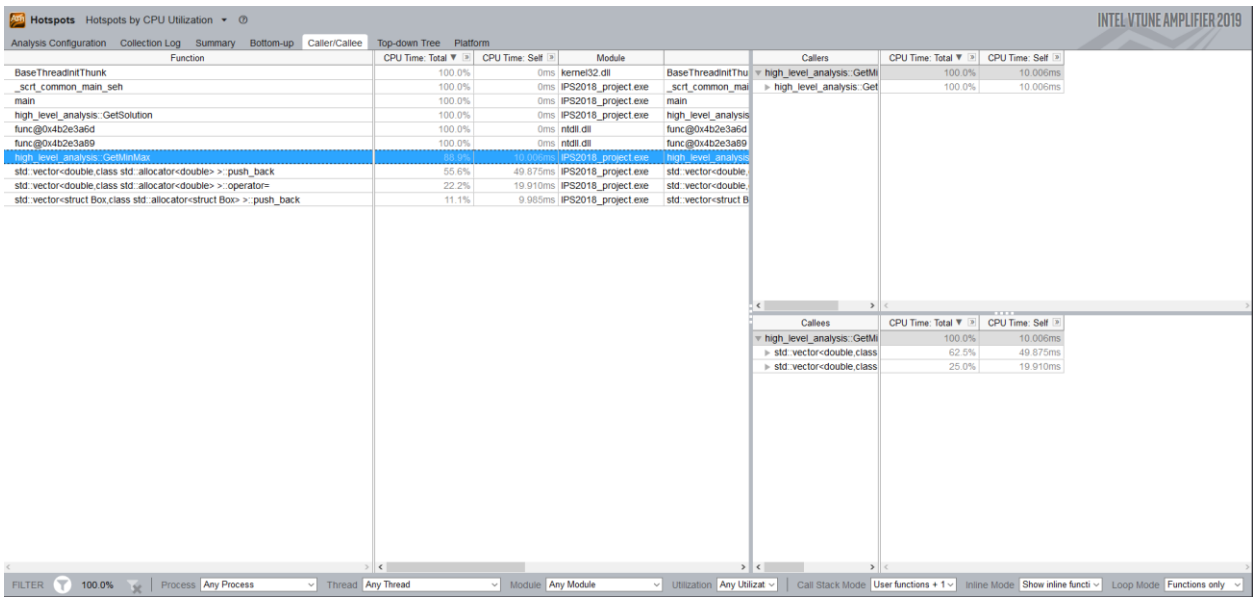


Полученное рабочее пространство

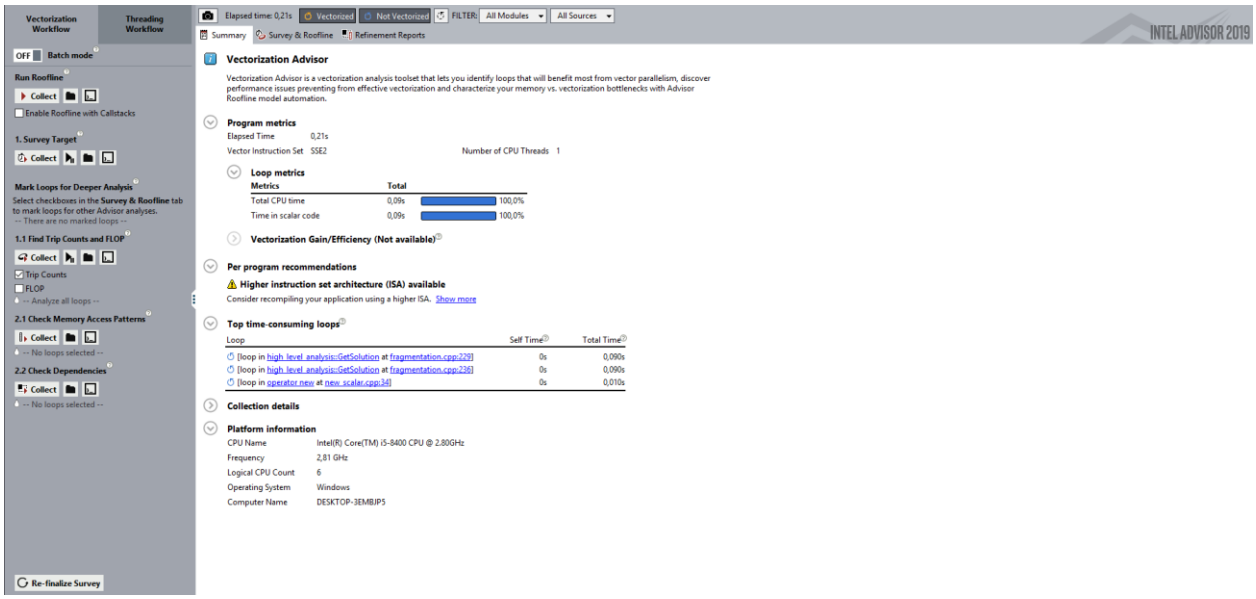


Результаты Amplifier XE



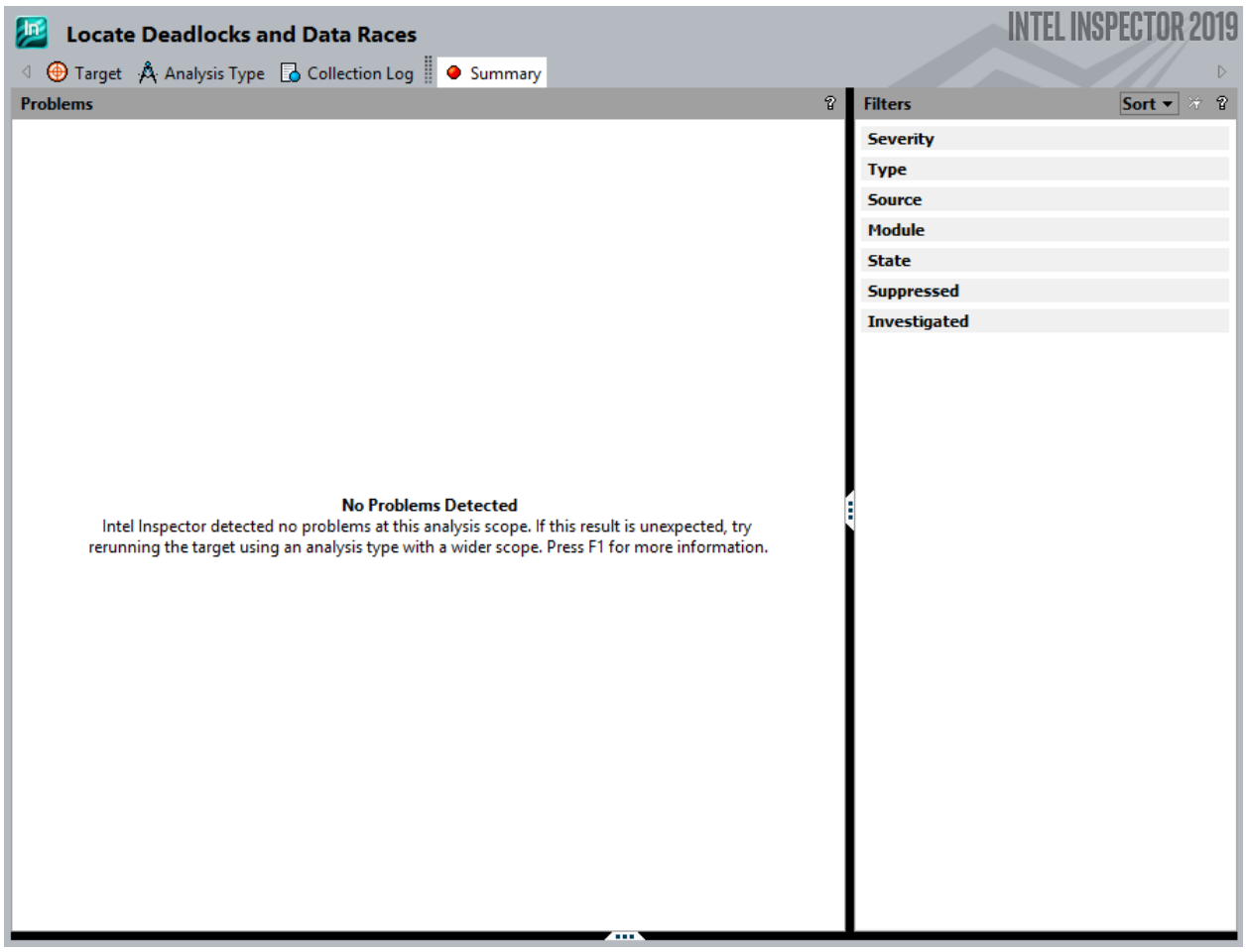


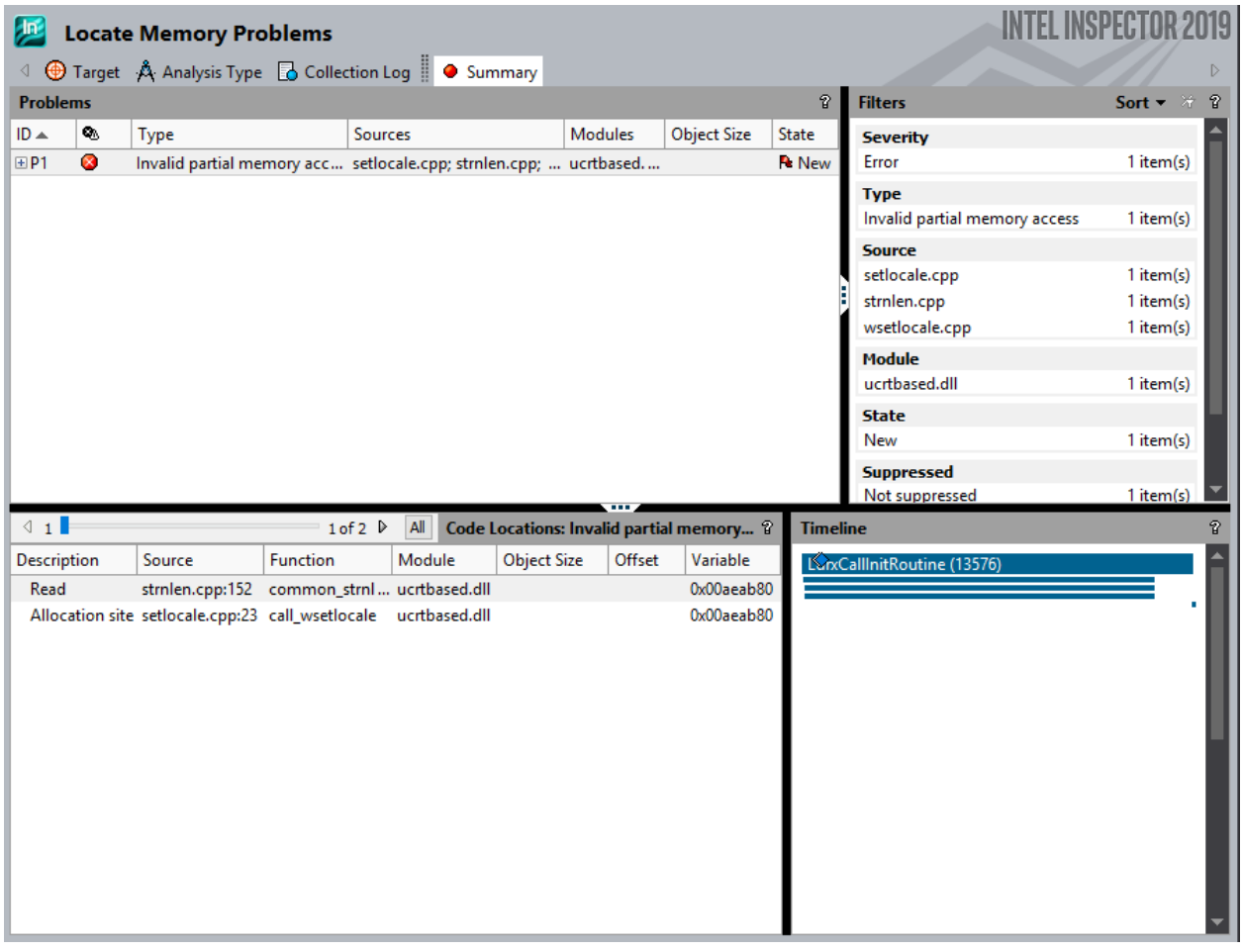
Результаты Parallel Advisor



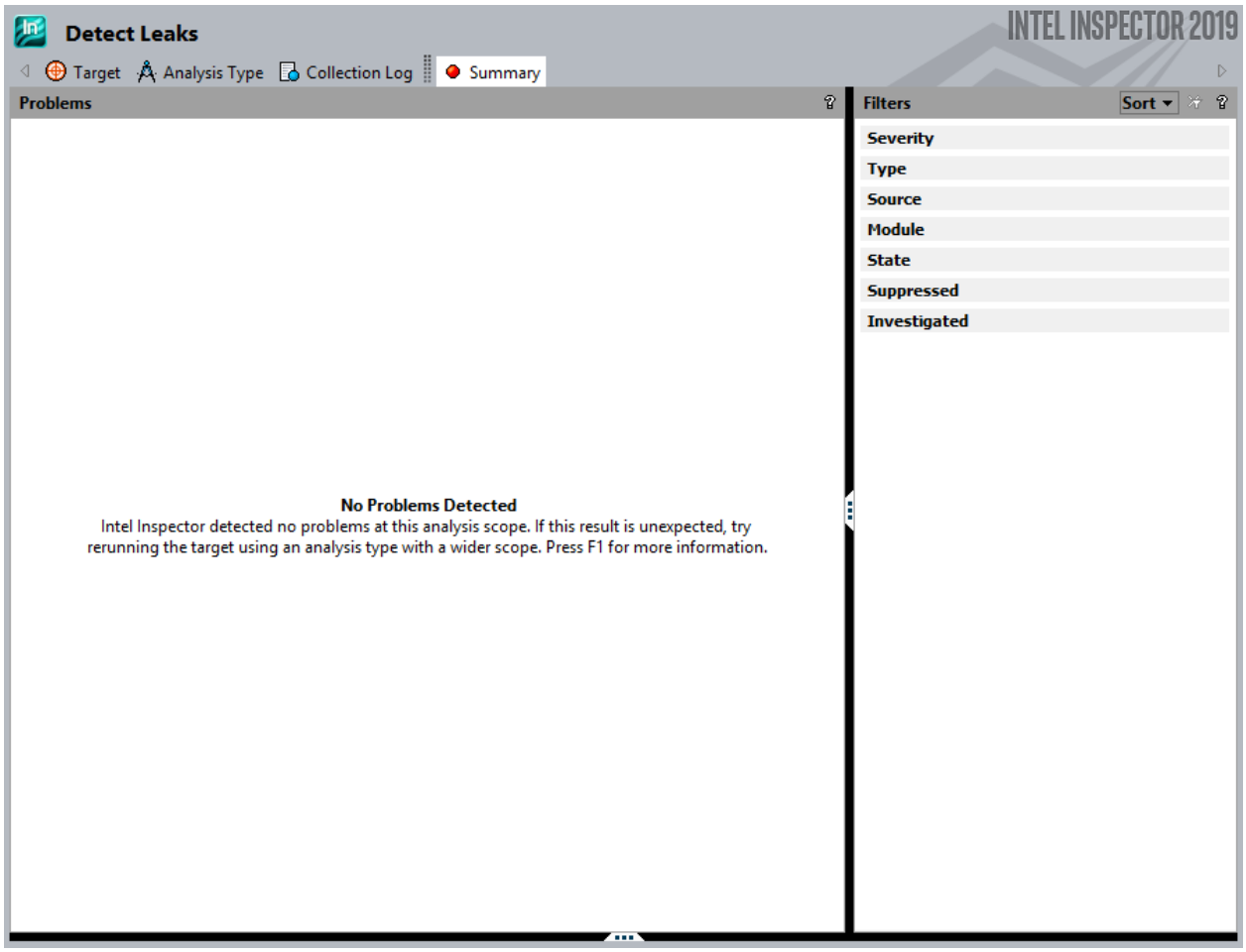
Он указывает на 236 строчку, как раз внутреннего цикла

```
229     for (int curLevel = 0; curLevel < maxLevels; curLevel++)
230     {
231         printf("Processing level %i\n", curLevel);
232
233         curLevelNodes = temporary_boxes.size();
234         //cilk::reducer<cilk::op_vector<Box>> r;
235
236         for (int curLevelNode = 0; curLevelNode < curLevelNodes; curLevelNode++)
237         {
238             current_box = &temporary_boxes[curLevelNode];
```


Locate Deadlocks and Data Races
INTEL INSPECTOR 2019
Target
Analysis Type
Collection Log
Summary
Problems
Filters
Sort
Severity
Type
Source
Module
State
Suppressed
Investigated
No Problems Detected
Intel Inspector detected no problems at this analysis scope. If this result is unexpected, try rerunning the target using an analysis type with a wider scope. Press F1 for more information.

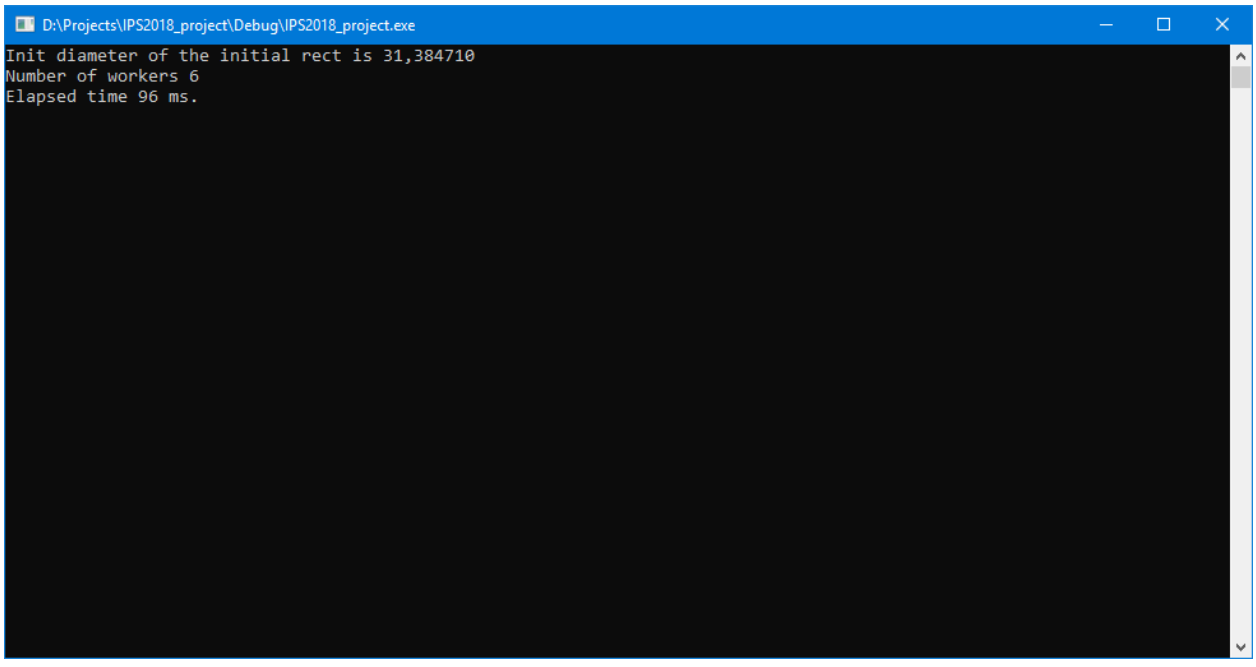

Locate Memory Problems
INTEL INSPECTOR 2019
Target
Analysis Type
Collection Log
Summary
Problems
ID
Type
Sources
Modules
Object Size
State
P1
Invalid partial memory acc...
setlocale.cpp; strnlen.cpp; ...
ucrtbased. ...
New
Filters
Sort
Severity
Error 1 item(s)
Type
Invalid partial memory access 1 item(s)
Source
setlocale.cpp 1 item(s)
strnlen.cpp 1 item(s)
wsetlocale.cpp 1 item(s)
Module
ucrtbased.dll 1 item(s)
State
New 1 item(s)
Suppressed
Not suppressed 1 item(s)
1
1 of 2
All
Code Locations: Invalid partial memory...
Description
Source
Function
Module
Object Size
Offset
Variable
Read
strnlen.cpp:152
common_strnl ...
ucrtbased.dll
0x00aeab80
Allocation site
setlocale.cpp:23
call_wsetlocale
ucrtbased.dll
0x00aeab80
Timeline
_CxxCallInitRoutine (13576)

Ошибки из других библиотек



После оптимизаций

Время работы программы в режиме Debug (96 ms)



Время работы программы в режиме Release (26 ms)