Předmět:	AVS - Architektury výpočetních systémů 2023/2024
Dílčí hodnocení:	projekty
Datum hodnocení:	28.11.2023
Vyučující:	Jaroš Marta, Ing., Ph.D.
Student:	Mihola David, Bc.
Body:	10
Splněno:	✓

Text zprávy:

Hodnoceni prvniho projektu AVS: xmihol00

Vektorizace po radcich

- +1.00 b: spravnost vystupu: (error = 0.012%) (max 1 b)
- +1.00 b: cas 893 ms do limitu 1300 ms (a spravny vystup) (max 1 b)

Reseni se umistilo mezi 33.67% nejrychlejsimi resenimi

Vektorizace po blocich

- +1.00 b: spravnost vystupu: (error = 0.029%) (max 1 b)
- +1.00 b: cas 122 ms do limitu 420 ms (a spravny vystup) (max 1 b)
- +1.00 b: cas 122 ms do limitu 580 ms (a spravny vystup) (max 1 b)
- +1.00 b: cas 122 ms do limitu 930 ms (a spravny vystup) (max 1 b)

Reseni se umistilo mezi 0.00% nejrychlejsimi resenimi

Odpovedi, implementace a grafy

- +1.00 b: Ukoncovaci smycka (Q1) (max 1 b)
- +1.00 b: Neefektivita line (Q2) (max 1 b)
- +1.00 b: Analyza v Intel Tools (Q3,Q4,Q5) (max 1 b)
- +1.00 b: Graf evaluace (max 1 b)

Celkem ziskano: 10.0 bodu

Komentar

Log kompilace (stdout)

- -- The C compiler identification is Intel 2021.6.0.20220226
- -- The CXX compiler identification is Intel 2021.6.0.20220226
- -- Detecting C compiler ABI info
- -- Detecting C compiler ABI info done
- -- Check for working C compiler: /apps/all/intel-

compilers/2022.1.0/compiler/2022.1.0/linux/bin/intel64/icc - skipped

- -- Detecting C compile features
- -- Detecting C compile features done
- -- Detecting CXX compiler ABI info
- -- Detecting CXX compiler ABI info done
- -- Check for working CXX compiler: /apps/all/intel-compilers/2022.1.0/compiler/2022.1.0/linux/bin/intel64/icpc skipped

- -- Detecting CXX compile features
- -- Detecting CXX compile features done
- -- Found ZLIB: /apps/all/zlib/1.2.12-GCCcore-11.3.0/lib/libz.so (found version "1.2.12")
- -- Configuring done
- -- Generating done
- Build files have been written to:

/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00

/apps/all/CMake/3.23.1-GCCcore-11.3.0/bin/cmake -

S/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00 -

B/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00 --check-build-system

CMakeFiles/Makefile.cmake 0

/apps/all/CMake/3.23.1-GCCcore-11.3.0/bin/cmake -E cmake_progress_start

/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00/CMakeFiles

/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00//CMakeFiles/progress.marks

make -f CMakeFiles/Makefile2 all

make[1]: Entering directory '/scratch/project/dd-23-135/eval-proj01-new/xmihol00'

make -f CMakeFiles/mandelbrot.dir/build.make CMakeFiles/mandelbrot.dir/depend

make[2]: Entering directory '/scratch/project/dd-23-135/eval-proj01-new/xmihol00'

cd /home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00 &&

/apps/all/CMake/3.23.1-GCCcore-11.3.0/bin/cmake -E cmake_depends "Unix Makefiles"

/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00

/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00

/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00

/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00

/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00/CMakeFiles/mandelbrot.dir/DependInfo.c --color=

make[2]: Leaving directory '/scratch/project/dd-23-135/eval-proj01-new/xmihol00'

make -f CMakeFiles/mandelbrot.dir/build.make CMakeFiles/mandelbrot.dir/build

make[2]: Entering directory '/scratch/project/dd-23-135/eval-proj01-new/xmihol00'

[14%] Building CXX object CMakeFiles/mandelbrot.dir/calculators/BaseMandelCalculator.cc.o

/apps/all/intel-compilers/2022.1.0/compiler/2022.1.0/linux/bin/intel64/icpc -

I/apps/all/zlib/1.2.12-GCCcore-11.3.0/include -

I/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00/common -

I/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00/calculators -03 -

mavx2 -xHost -q -qopenmp-simd -qopt-report=1 -qopt-report-phase=vec -std=qnu++11 -MD -MT

CMakeFiles/mandelbrot.dir/calculators/BaseMandelCalculator.cc.o -MF

CMakeFiles/mandelbrot.dir/calculators/BaseMandelCalculator.cc.o.d -o

CMakeFiles/mandelbrot.dir/calculators/BaseMandelCalculator.cc.o -c

/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00/calculators/BaseMandelCalculator.cc [28%] Building CXX object

CMakeFiles/mandelbrot.dir/calculators/BatchMandelCalculator.cc.o

/apps/all/intel-compilers/2022.1.0/compiler/2022.1.0/linux/bin/intel64/icpc -

l/apps/all/zlib/1.2.12-GCCcore-11.3.0/include -

I/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00/common -

I/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00/calculators -03 -

mavx2 -xHost -g -qopenmp-simd -qopt-report=1 -qopt-report-phase=vec -std=gnu++11 -MD -MT

CMakeFiles/mandelbrot.dir/calculators/BatchMandelCalculator.cc.o -MF

CMakeFiles/mandelbrot.dir/calculators/BatchMandelCalculator.cc.o.d -o

CMakeFiles/mandelbrot.dir/calculators/BatchMandelCalculator.cc.o -c

/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00/calculators/BatchMandelCalculator.cc

[42%] Building CXX object CMakeFiles/mandelbrot.dir/calculators/LineMandelCalculator.cc.o

/apps/all/intel-compilers/2022.1.0/compiler/2022.1.0/linux/bin/intel64/icpc -

I/apps/all/zlib/1.2.12-GCCcore-11.3.0/include -

I/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00/common -

I/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00/calculators -O3 -

mavx2 -xHost -g -qopenmp-simd -qopt-report=1 -qopt-report-phase=vec -std=gnu++11 -MD -MT

CMakeFiles/mandelbrot.dir/calculators/LineMandelCalculator.cc.o -MF

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CMakeFiles/mandelbrot.dir/calculators/LineMandelCalculator.cc.o.d -o

CMakeFiles/mandelbrot.dir/calculators/LineMandelCalculator.cc.o -c

/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00/calculators/LineMandelCalculator.cc

[57%] Building CXX object CMakeFiles/mandelbrot.dir/calculators/RefMandelCalculator.cc.o

/apps/all/intel-compilers/2022.1.0/compiler/2022.1.0/linux/bin/intel64/icpc -

l/apps/all/zlib/1.2.12-GCCcore-11.3.0/include -

I/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00/common -

I/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00/calculators -03 -

mavx2 -xHost -g -qopenmp-simd -qopt-report=1 -qopt-report-phase=vec -std=gnu++11 -MD -MT

CMakeFiles/mandelbrot.dir/calculators/RefMandelCalculator.cc.o -MF

CMakeFiles/mandelbrot.dir/calculators/RefMandelCalculator.cc.o.d -o

CMakeFiles/mandelbrot.dir/calculators/RefMandelCalculator.cc.o -c

/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00/calculators/RefMandelCalculator.cc

[71%] Building CXX object CMakeFiles/mandelbrot.dir/common/cnpy.cc.o

/apps/all/intel-compilers/2022.1.0/compiler/2022.1.0/linux/bin/intel64/icpc -

l/apps/all/zlib/1.2.12-GCCcore-11.3.0/include -

I/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00/common -

I/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00/calculators -03 -

mavx2 -xHost -g -qopenmp-simd -qopt-report=1 -qopt-report-phase=vec -std=gnu++11 -MD -MT

CMakeFiles/mandelbrot.dir/common/cnpy.cc.o -MF

CMakeFiles/mandelbrot.dir/common/cnpy.cc.o.d -o

CMakeFiles/mandelbrot.dir/common/cnpy.cc.o -c

/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00/common/cnpy.cc

[85%] Building CXX object CMakeFiles/mandelbrot.dir/main.cc.o

/apps/all/intel-compilers/2022.1.0/compiler/2022.1.0/linux/bin/intel64/icpc -

l/apps/all/zlib/1.2.12-GCCcore-11.3.0/include -

I/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00/common -

I/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00/calculators -03 -

mavx2 -xHost -g -qopenmp-simd -qopt-report=1 -qopt-report-phase=vec -std=gnu++11 -MD -MT

CMakeFiles/mandelbrot.dir/main.cc.o -MF CMakeFiles/mandelbrot.dir/main.cc.o.d -o

CMakeFiles/mandelbrot.dir/main.cc.o -c

/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00/main.cc

[100%] Linking CXX executable mandelbrot

/apps/all/CMake/3.23.1-GCCcore-11.3.0/bin/cmake -E cmake_link_script

CMakeFiles/mandelbrot.dir/link.txt --verbose=1

/apps/all/intel-compilers/2022.1.0/compiler/2022.1.0/linux/bin/intel64/icpc -O3 -mavx2 -

xHost -g -qopenmp-simd -qopt-report=1 -qopt-report-phase=vec

CMakeFiles/mandelbrot.dir/calculators/BaseMandelCalculator.cc.o

CMakeFiles/mandelbrot.dir/calculators/BatchMandelCalculator.cc.o

CMakeFiles/mandelbrot.dir/calculators/LineMandelCalculator.cc.o

CMakeFiles/mandelbrot.dir/calculators/RefMandelCalculator.cc.o

CMakeFiles/mandelbrot.dir/common/cnpy.cc.o CMakeFiles/mandelbrot.dir/main.cc.o -o

mandelbrot /apps/all/zlib/1.2.12-GCCcore-11.3.0/lib/libz.so

make[2]: Leaving directory '/scratch/project/dd-23-135/eval-proj01-new/xmihol00'

[100%] Built target mandelbrot

make[1]: Leaving directory '/scratch/project/dd-23-135/eval-proj01-new/xmihol00'

/apps/all/CMake/3.23.1-GCCcore-11.3.0/bin/cmake -E cmake_progress_start

/home/icudova/Vyuka/AVS/Assignments/01/Evaluation/eval/xmihol00/CMakeFiles 0

Log kompilace (stderr)

icpc: remark #10397: optimization reports are generated in *.optrpt files in the output location

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Log line (stdout)
line
LineMandelCalculator;4096;12288;8192;100;893
LineMandelCalculator;4096;12288;8192;100;895
LineMandelCalculator;4096;12288;8192;100;893

Log line (stderr)

[ok] Results are very close (eps = 0.012%)

Log batch (stdout)

batch

BatchMandelCalculator;4096;12288;8192;100;122 BatchMandelCalculator;4096;12288;8192;100;123 BatchMandelCalculator;4096;12288;8192;100;109 [ok] Results are very close (eps = 0.029%)

Log batch (stderr)