

<b>Předmět:</b>	AVS - Architektury výpočetních systémů 2023/2024
<b>Dílčí hodnocení:</b>	projekty
<b>Datum hodnocení:</b>	04.01.2024
<b>Vyučující:</b>	Jaroš Marta, Ing., Ph.D.
<b>Student:</b>	Mihola David, Bc.
<b>Body:</b>	20
<b>Splněno:</b>	✓

**Text zprávy:**

Hodnoceni druhého projektu AVS: xmihol00

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## 1: paralelizace puvodniho reseni (5b)

+1.00 b: spravnost vertices a distance: 517224 == 517224 and 0.00 < 2.0 (max 1 b)

+1.00 b: cas 82 ms do limitu 400 ms (a spravny vystup) (max 1 b)

Detekovano SIMD: True

+1.00 b: Q1.1: kterou smycku paralelizovat (max 1 b)

+1.00 b: Q1.2: planovani (max 1 b)

+1.00 b: Q1.3: ukladani trojuhelniku (max 1 b)

## 2: paralelni pruchod stromem (8b)

+3.00 b: spravnost vertices a distance: 517224 == 517224 and 0.00 < 2.0 (max 3 b)

+2.00 b: cas 29 ms do limitu 190 ms (a spravny vystup) (max 2 b)

+1.00 b: Q2.1: vyuziti tasku (max 1 b)

+1.00 b: Q2.2: vliv cut-off (max 1 b)

+1.00 b: Q2.3: ukladani trojuhelniku (max 1 b)

Detekovano SIMD: True

## 3: grafy skalovani, VTune (7b)

+1.00 b: Q3.1: efektivita skalovani (max 1 b)

+1.00 b: Q3.2: neefektivita prvni ulohy (max 1 b)

+1.00 b: Q3.3: tree efektivni pro slabe skalovani? (max 1 b)

+1.00 b: Q3.4: silne vs. slabe skalovani? (max 1 b)

+1.00 b: Q4.1: VTune - 18 jader (max 1 b)

+1.00 b: Q4.2: VTune - 36 jader (max 1 b)

+1.00 b: Q4.2: VTune - zavery (max 1 b)

Celkem ziskano: 20.0 bodu

Komentar

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Log kompilace (stderr)

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## Log loop (stdout)

```
=====
loop
OpenMP Loop;
{PWD}/Assignment/data/bun_zipper_res4.pts;r4_loop.obj;128;0.15;453;18;83;172408;22901094
OpenMP Loop;
{PWD}/Assignment/data/bun_zipper_res4.pts;r4_loop.obj;128;0.15;453;18;82;172408;22901094
OpenMP Loop;
{PWD}/Assignment/data/bun_zipper_res4.pts;r4_loop.obj;128;0.15;453;18;82;172408;22901094
OpenMP Loop;
{PWD}/Assignment/data/bun_zipper_res4.pts;r4_loop.obj;128;0.15;453;18;82;172408;22901094
OpenMP Loop;
{PWD}/Assignment/data/bun_zipper_res4.pts;r4_loop.obj;128;0.15;453;18;82;172408;22901094
Reference mesh vertices count: 517224
Test mesh vertices count: 517224
Maximum distance between vertices: 0.0
```

## Log loop (stderr)

```
=====
```

## Log tree (stdout)

```
=====
tree
Octree;
{PWD}/Assignment/data/bun_zipper_res4.pts;r4_tree.obj;128;0.15;453;18;30;172408;22901094
Octree;
{PWD}/Assignment/data/bun_zipper_res4.pts;r4_tree.obj;128;0.15;453;18;29;172408;22901094
Octree;
{PWD}/Assignment/data/bun_zipper_res4.pts;r4_tree.obj;128;0.15;453;18;29;172408;22901094
Octree;
{PWD}/Assignment/data/bun_zipper_res4.pts;r4_tree.obj;128;0.15;453;18;29;172408;22901094
Octree;
{PWD}/Assignment/data/bun_zipper_res4.pts;r4_tree.obj;128;0.15;453;18;29;172408;22901094
Reference mesh vertices count: 517224
Test mesh vertices count: 517224
Maximum distance between vertices: 0.0
```

## Log tree (stderr)

```
=====
```