

GPU - 가

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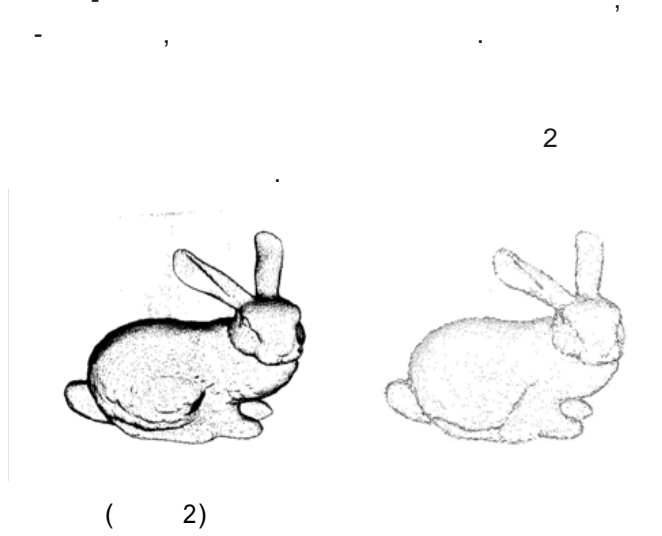
Acceleration of GPU-based Shear-Skew Warp Volume Rendering

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** School of Electrical Engineering, Korea University

GPU CPU
GPU 가 GPU 가
GPU CPU
GPU CPU
1. [7]
Rendering) [1, 2] 3 (Volume 2
2. 2.1. GPU 1 GPU
GPU
GPU
[3], [4] GPU
[5] 가 가 GPU CPU
(Shear Warp Technique) [6] 가 GPU CPU
GPU CPU
GPU GPU
GPU
Host CPU Host Memory
GPU Device Processor Core Core Shared Memory Global Memory
(1) GPU

(NIPA-2013-H0301-13-3006) , 2012
IT ()
(2012-0006425) ,
2012
(R2012030096).

2.2.



GPGPU

20%

GPU

GPU

GPU

X, Y, Z

GPU

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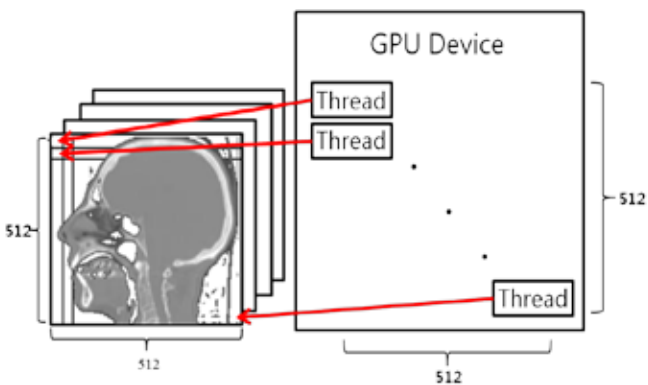
CUDA

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GPU

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GPU



(3)

3.

i5-2500K 3.30GHz

CPU, NVIDIA

GTX560, 4G RAM

Windows7 OS

1

< 1 >

8

Data	Dimension	Size(Mbytes)
engine	256x256x110	7.2089
CT head	256x256x225	14.7456
foot	256x256x256	16.7772
carp	256x256x512	33.5544
stag beetle	416x416x247	42.7448
CTA Brain	512x512x279	73.1381
piggy bank	512x512x361	94.6339
bunny	512x512x361	94.6339

4

GPGPU

1.1

CPU [8]

1.5 가

GPU

GPGPU

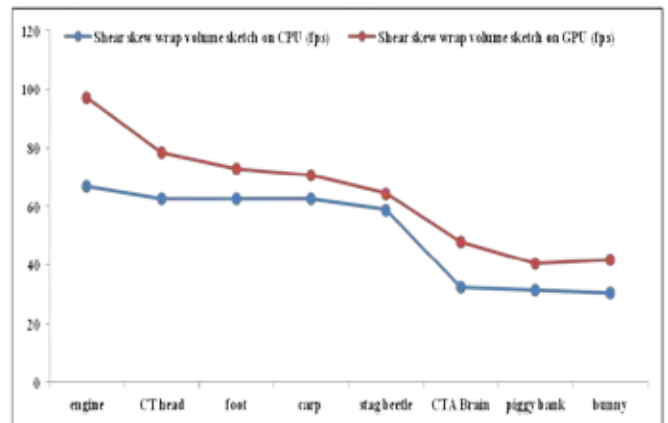
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CPU

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(4)

CPU GPU

4.

GPU

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GPU

CPU

GPU

CPU

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