

Accelerating Cone Beam Reconstruction Using the CUDA-enabled GPU*

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Abstract. Compute unified device architecture (CUDA) is a software development platform that enables us to write and run general-purpose applications on the graphics processing unit (GPU). This paper presents a fast method for cone beam reconstruction using the CUDA-enabled GPU. The proposed method is accelerated by two techniques: (1) off-chip memory access reduction; and (2) memory latency hiding. We describe how these techniques can be incorporated into CUDA code. Experimental results show that the proposed method runs at 82% of the peak memory bandwidth, taking 5.6 seconds to reconstruct a 512^3 -voxel volume from 360 512^2 -pixel projections. This performance is 18% faster than the prior method. Some detailed analyses are also presented to understand how effectively the acceleration techniques increase the reconstruction performance of a naive method.

1 Introduction

Cone beam (CB) reconstruction is an imaging process for producing a three-dimensional (3-D) volume from a sequence of 2-D projections obtained by a CB computed tomography (CT) scan. This reconstruction technique is integrated into many mobile C-arm CT systems in order to assist the operator during image-guided surgery. In general, a CB reconstruction task should be completed within ten seconds because the operator has to stop the surgical procedure until obtaining the intraoperative volume. However, it takes 3.21 minutes to obtain a 512^3 -voxel volume on a single 3.06 GHz Xeon processor [1]. Accordingly, many projects are trying to accelerate CB reconstruction using various accelerators, such as the graphics processing unit (GPU) [2–6], Cell [1], and FPGA [7].

To the best of our knowledge, Xu et al. [2] show the fastest method using the GPU, namely a commodity chip designed for acceleration of graphics tasks. Their method is implemented using the OpenGL library in order to take an advantage of graphics techniques such as early fragment kill (EFK). It takes 8.3 seconds to reconstruct a 512^3 -voxel volume from 360 projections. In contrast to this graphics-based implementation strategy, a non-graphics implementation strategy is proposed by Scherl et al. [3]. They use compute unified device architecture (CUDA) [8] to implement CB reconstruction

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Accelerating Cone Beam Reconstruction Using The Cuda

Lauren Gardner



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