Advanced Computer Architecture: The "Smooth" Challenge

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Abstract
The ABSTRACT is to be in fully-justified italicized text, between two horizontal lines, in one-column format, below the author and affiliation information. Use the word "Abstract" as the title, in 9-point Times, boldface type, left-aligned to the text, initially capitalized. The abstract is to be in 9-point, single-spaced type. The abstract may be up to 3 inches (7.62 cm) long.

Leave one blank line after the abstract, then add the subject categories according to the ACM Classification Index (see http://www.acm.org/class/1998/).

Categories and Subject Descriptors (according to ACM CCS): I.3.3 [Computer Graphics]: Picture/Image Generation—Line and curve generation

1. Introduction

2. Hardware Considerations

The chosen hardware is not one of the machine from the Lab. They do not have any interesting GPUs. But one of our laptops is very powerful with an interesting GPU. This is the chosen one.

Here are the details of this hardware:

3. Software Considerations

The machine used for this coursework runs a Fedora distribution.

4. The Sequential Issue

4.1. Analysis

4.2. Optimization

5. CPU Parallelization

5.1. Analysis

5.2. Optimization