利用GPGPU進行雲端分析之效能評估

0016016 余佳霖
Familiar with OpenCL parallel optimization strategy

- Ex: matrix multiplication (200x ~ 600x speedup)

Use these strategies to accelerate bigger program (HEVC)

- Still working on it
- Based on HM 12.0
Status Report (2/3)

- Install and start using with gpgpu-sim for future analysis
Simple machine learning program implementation

- Kth Nearest Neighbor learning
- Neural Network
- AdaBoost Algorithm
- Support Vector Machine
Future Schedule

- 2014/7 ~ 2014/9
  Accelerate Image Processing Libraries based on OpenCL
- 2014/9 ~ 2014/10
  Finish the HEVC parallel acceleration project
- 2014/11 ~ 2015/2
  Using gpgpu-sim to analysis the OpenCL based program