

Implementation of a Parallel Virtual Machine on a GPU using OpenCL

Gary Blackwood

School of Computing Science Sir Alwyn Williams Building University of Glasgow G12 8QQ

Level 4 Project — January 30, 2013

Abstract goes here.	Abst	ract	

Education Use Consent

I hereby give my perm	sion for this project to be shown to other University of Glasgow students and to be
distributed in an electro-	c format. Please note that you are under no obligation to sign this declaration, bu
doing so would help fu	re students.
Name:	Signature:

Contents

1	Introduction				
	1.1	Aims	2		
	1.2	Background	2		
	1.3	Motivation	2		
	1.4	Report Content	2		
2	Desi	gn	3		
3	Imp	lementation	4		
4	Pote	ntial Improvements	5		
5	Con	clusion	6		
Аŗ	pend	ices	7		
A	Run	ning the Programs	8		

Introduction

- 1.1 Aims
- 1.2 Background
- 1.3 Motivation
- 1.4 Report Content

Design

Implementation

Potential Improvements

Conclusion

Appendices

Appendix A

Running the Programs

Bibliography

- [1] DIMACS clique benchmark instances. ftp://dimacs.rutgers.edu/pub/challenge/graph/benchmarks/clique.
- [2] Peter Cheeseman, Bob Kanefsky, and William M. Taylor. Where the really hard problems are. In *Proceedings IJCAI'91*, pages 331–337, 1991.
- [3] Torsten Fahle. Simple and Fast: Improving a Branch-and-Bound Algorithm for Maximum Clique. In *Proceedings ESA 2002, LNCS 2461*, pages 485–498, 2002.
- [4] Brian Hayes. Can't get no satisfaction. American Scientist, 85:108–112, 1997.