

Table of Contents

摘要.....	i
Abstract.....	ii
Acknowledgments.....	iii
Table of Contents.....	iv
List of Figures.....	vi
List of Tables.....	vii
Chapter 1. Introduction.....	1
Chapter 2. Fundamental Background and Related Work.....	4
2.1 Fundamental Background.....	4
2.1.1 System Architecture.....	4
2.1.2 Some Basic Terminologies.....	5
2.2 Related Work.....	9
2.2.1 HEFT Algorithm.....	10
2.2.2 STDS Algorithm.....	11
2.2.3 CLS Algorithm.....	12
2.2.4 BSA Algorithm.....	13
Chapter 3. Duplication-based Earliest Finish Time Algorithm.....	15
3.1 DEFT ₁ Algorithm.....	15
3.1.1 Task Prioritizing Phase.....	15
3.1.2 Processor Selection Phase.....	16
3.2 DEFT ₂ Algorithm.....	26
3.2.1 Task Prioritizing Phase.....	26
3.2.2 Processor Selection Phase.....	26
Chapter 4. Simulation and Performance Evaluations.....	32
4.1 Simulation Setup.....	32
4.2 Performance Evaluations.....	35
4.2.1 DEFT ₁ vs. HEFT and STDS.....	36
4.2.2 DEFT ₂ vs. CLS and BSA.....	38
Chapter 5. Conclusions and Future Work.....	42

5.1 Conclusions.....42
5.2 Future Work.....43
Bibliographies.....45

