

# An Anthology of Applied Computer Technologies

Zulkefli Muhammed Yusof  
M.M Hafizur Rahman



IIUM PRESS

INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

# AN ANTHOLOGY OF APPLIED COMPUTER TECHNOLOGIES

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## Editors

Zulkefli Muhammed Yusof

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**IIUM Press**

Published by:

IIUM Press

International Islamic University Malaysia

First Edition, 2011  
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Perpustakaan Negara Malaysia

Cataloguing-in-Publication Data

Zulkefli Muhammed Yusof and M.M. Hafizur Rahman:  
An Anthology of Applied Computer Technologies

ISBN: 978-967-418-106-2

Member of Majlis Penerbitan Ilmiah Malaysia – MAPIM  
(Malaysian Scholarly Publishing Council)

Printed by :

**IIUM PRINTING SDN. BHD.**

No. 1, Jalan Industri Batu Caves 1/3

Taman Perindustrian Batu Caves

Batu Caves Centre Point

68100 Batu Caves

Selangor Darul Ehsan

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# 9. BRUTE FORCE PASSWORD SEARCH USING MULTITHREADING AND GRID COMPUTING

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## ABSTRACT

This research examined the time taken for a set of password input and time taken to find the password by our software. The application will try all combination of password starting from first width and continues with two combination of password and so on. The search space will grow bigger as the password width increase and stop when the password is found. One of the application feature is brute force search which use multiple thread or as known as multithreading. The advantage of this feature is it will accelerate the search process time. Multithreading use the potential of modern processor which a single core processor can have multiple thread. When multithreading is used, processor will be forced to operate at 100% usage. The search time can be greatly improved more by using many computers to do the searching. Both local and remote search will apply multithreading with control to divide task.

## 9.1 INTRODUCTION

Grid computing always refers to a term where two or more computers linked and working together from multiple domains to reach a common goal. A grid of computer network can be thought of as a distributed system with no interactive task working on a large number of files. Such communications are put into practice can gain significant advantage of computational problem