## C317546 : MAJOR COMPUTER SCIENCE
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SUDJAI VILAIMONGKOL: A DEVELOPMENT OF DOS SHELL ON THE UNIX OPERATING SYSTEM. THESIS ADVISOR: ASSOC. PROF. SOMCHAI THAYARNYONG, 59 pp. ISBN 974-584-320-2

The purpose of this thesis is to study the operation of UNIX and MS-DOS operating systems and to develop the program for connecting both O/S to allow the workstations with MS-DOS operating system to execute, store, create and delete any program or data in the partial storage of UNIX based server as effectively as to execute in MS-DOS storage function.

In the program development, several programs have been developed, a program on the MS-DOS operating system; Device Driver program which is developed to redirect the MS-DOS storage System to the UNIX storage system; the communicating program which handles data transmission and defines the format of data packet to carry the information to each O/S; the program utilities for installation and interface with MS-DOS including the Format utility for storage on the UNIX based server to make it meet the MS-DOS standard. Morever, a program to simulate the MS-DOS storage on the UNIX operating system as well as a communicating program similar to that of MS-DOS system in order to allow the data transmission to be developed.

An outcome of the operation of the above developed programs allows the users to execute, store, create or delete a program or file in the partial UNIX storage without paying any surplus expense, using only the available appliances. The programs developed are possibly adjusted to many applications, for example, interchanging data between the rear workstations in a form of data files in MS-DOS system, or other relevant operations.