ON STUDY OF IMPROVED BYPASS FORWARDING STRATEGY IN PCS NETWORKS

廖俊達、翁永昌

E-mail: 9019289@mail.dyu.edu.tw

ABSTRACT

IN THE PERSONAL COMMUNICATION SERVICE ENVIRONMENT, LOCATION MANAGEMENT IS A VERY IMPORTANT WORK. SO FAR, THERE ARE MANY METHODS OF LOCATION MANAGEMENT THAT HAVE BEEN PROPOSED CONTINUOUSLY. THE MAIN RESEARCH DIRECTION OF THIS THESIS IS EMPHASIZING ON BYPASS FORWARDING STRATEGY TO DO SOME RESEARCH. THE METHOD IS THAT IF THE SYSTEM DETECTS THAT ONE OF VLR IN THE POINTER CHAIN BREAKDOWNS, THEN THE SYSTEM WILL SEND SOME FNV (FIND NEXT VLR) MESSAGES TO FAULTED VLR'S NEIGHBORS AND THEN WAIT FOR RESPONSE. WHEN THE SYSTEM RECEIVES ALL THE RESPONSES FROM THE NEIGHBORS, IT KNOWS WHICH VLR IT SHOULD KEEP ON TRACING. BUT IN THIS METHOD, WHEN THE SYSTEM RECEIVES POSITIVE MESSAGE RESPONSES OF ONE AND ABOVE, IT WILL BE UNABLE TO DETERMINE WHICH VLR IT SHOULD KEEP ON TRACING. THIS IS SO-CALLED PROBLEM OF CHOOSING THE PATH, BUT BIAZ AND HIS PARTNERS DO NOT COPE WITH IT. THUS, TO SOLVE THE PROBLEM, WE PROPOSE THE IMPROVED BYPASS FORWARDING STRATEGY TO CORRECT THE POINTS THAT ARE NOT THOROUGHLY CONCERNED.

Keywords : PCS, LOCATION MANAGEMENT, FORWARDING POINTER

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