Abstract

Most of the sensitive information in the data communication has latent security problems. The algorithm method of AES, DES, 3DES and RC2 which were widely used are not suitable for the coding of advanced language tools. Therefore, we proposed the mixed encryption algorithm based on bit shifting and matrix calculation to solve the problem. Our method is easy to adopt the coding of advanced language and is safe enough. The security mechanism uses some algorithms to scramble data into unreadable text which can be only being decoded or decrypted by party those know the secret key. The proposed algorithms consume very less amount of computing resources such as CPU time, memory and battery power [18]. Our implementations also showed the highest throughputs for all type of files and file size and comparison has been conducted with AES, DES, 3DES, RC2 [1] and result shows the effectiveness and speed of our algorithm.
Reference

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- IJCST Vol. 2, Issue 2, June 2011 | IS SN : 2 2 2 9 - 4 3 3 3 ( P r i n t ) | I S S N : 0 9 7 6 - 8 4 9 1 On line “Comparative Analysis Of Encryption Algorithms For Data Communication”ShashiMehrotra Seth, Rajan Mishra”
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RC2 Computer Security

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