



HIGH PERFORMANCE APPROACH FOR DIGITAL SIGNATURE: THROUGH USING ALCHEMI GRID COMPUTING

Iyad Shaheen

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Grid computing is one of the most powerful techniques that can achieve a high acceleration for cryptographic algorithms. This approach makes the digital signature attractive for adoption by businesses to secure their documents. In this thesis, we propose and develop an application for digital signature cryptography using enterprise grid middleware called Alchemi. High Performance Approach for Digital Signature that is called "GridSignature" is applied through the separation of the message, into blocks and encrypting each block to get cipher blocks. Inside Alchemi, it computing the hashcode is used for cipher blocks in independent Alchemi executors and any result of computing hash 160 bit is added to other in exclusive disjunction logic gate; the result is called "Grid Hash". The evaluation of performance in the grid signature depends on three relations: file size; block size and number of executors. For each file the sign or verify was carried on 1, 2, 3, 4 and 5 executor nodes. So the performance is reached when using file size 82MB and under running 4 executors to 137.96% of speed up over the single processor version.

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