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|  | | RSA Cryptography | | | | |  | |
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|  | | GRAPHS (time is in seconds) | | |  | |
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|  | **RSA ENCRYTION AND DECRYPTION:** | | | | |  |
| **Encryption:** | | | | |

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|  | **Decryption:** |  |

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|  | **ATTACKING RSA:** |  |



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|  | | CONCLUSION | | |  | |
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|  | **RSA ENCRYTION AND DECRYPTION:**  The time taken for encryption and decryption increases exponentially with the increase in the number of bits. However, the power of the exponential is not as large as for attack. There is a big difference between using RSA and attacking the RSA. | | | | |  |
|  | **ATTACKING RSA:**  The attack time increases exponentially with the increase in the number of bits. As the process of finding the prime factorization of n gets more complicated, and it is harder to succeed in the plain-cipher text attack as the key size increases, especially with low processing and computational power. | | | | |  |