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the set of parameters suggested by falcon imply a signature size of 666 bytes and a public key size of 897 bytes for the nist security level 1 security comparable to breaking aes 128 bits

with falcon 512 which has an equivalent security to rsa 2048 we generate a public key of 897 bytes and a signature size of 666 bytes while falcon 1024 gives a public key of 1 793

overview falcon 1024 is a fast fourier lattice based signature scheme providing nist security level 5 with compact signatures

using the reference implementation on a common desktop computer intel core i5 8259u at 2.3 ghz turboboost disabled falcon achieves the following performance sizes key

new private key storage format has been designed private keys now fit in 1281 bytes falcon 512 or 2305 bytes falcon 1024 public key encodings and sizes are unchanged

algorithm type digital signature scheme main cryptographic assumption hardness of ntru lattice problems principal submitters
thomas prest auxiliary submitters pierre alain

public key bytes get the number of bytes for a public key secret key bytes get the number of bytes for a secret key sign sign the message and return the signed message signature bytes

however if the variable size increases beyond a certain level the stack memory may become insufficient e g in falcon 1024 the size of one public key is 1 793 bytes while the size of one

falcon digital signatures falcon is a post quantum digital signature scheme based on the ntru lattice structure offering compact signatures and fast verification

falcon uses ntru as a asymmetric encryption and has been benchmarked as twice as fast as rsa to encrypt and three times faster to decrypt ntru is the public key method which is not

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