

arch64, pi4b, crypto\_sign, open time, except for NIST Post-Quantum Cryptography Standardization Project  
Horizontal axis: Time (cycles) to generate a message given a signed message (crypto\_sign\_open).  
Vertical axis: Space (bytes) for a public key (crypto\_sign\_PUBKEYBYTES).  
“T” means that the SUPERCOP database does not list constant time as a goal for this implementation.

