

1. Exhaustive

- Every  $k = [4, 16]$  bit pattern sent through encoder and verified. For each  $k$ ,  $2^k$  unique patterns are sent.

2. Random

- (a) For a random  $k$  (`$random($now)`), split into 6 ranges:

- $k \in [17, 31]$
- $k \in [33, 63]$
- $k \in [65, 127]$
- $k \in [128, 255]$
- $k \in [256, 511]$
- $k \in [512, 1024]$

Run 2, 3, 5, 8, 12, 20 times respectively.

- (b) Always do random 32, 64.

3. Memory-style tests

- (a) Walking 0: Same 6 ranges, pick a random  $k$  from each range. Exhaustive walking 0.
- (b) Walking 1: Same 6 ranges, pick a random  $k$  from each range. Exhaustive walking 1.