

|                |      |                 |            |                 |             | Strict Triplet Distance |        |        | Lax Triplet Distance |        |        | Inner Node Loss |        |       |
|----------------|------|-----------------|------------|-----------------|-------------|-------------------------|--------|--------|----------------------|--------|--------|-----------------|--------|-------|
|                |      |                 |            |                 | Policy      | Tilted                  | Hybrid | Steady | Tilted               | Hybrid | Steady | Tilted          | Hybrid | Stead |
| Scenario       | Unit | Population Size | Downsample | Num Generations | Size (bits) |                         |        |        |                      |        |        |                 |        |       |
| drift          | bit  | 4096            | 500        | 100000          | 32          | B                       | B      | w      | w                    | w      | B      |                 |        |       |
|                |      |                 |            |                 | 64          | B                       |        | w      |                      | w      |        |                 |        |       |
|                |      |                 |            |                 | 256         | B                       | B      | w      | B                    | B      | w      |                 |        |       |
|                |      | 65536           | 500        | 100000          | 32          | w                       | B      | B      | w                    |        | B      |                 |        |       |
|                |      |                 |            |                 | 64          |                         |        |        | w                    | B      | B      |                 |        |       |
|                |      |                 |            |                 | 256         |                         |        |        |                      |        |        |                 |        |       |
|                |      |                 | 8000       | 100000          | 32          | w                       | B w    | B      | w                    | w      | B      |                 |        |       |
|                |      |                 |            |                 | 64          |                         |        |        |                      |        |        |                 |        |       |
|                |      |                 |            |                 | 256         |                         |        |        |                      |        |        |                 |        |       |
|                | byte | 4096            | 500        | 100000          | 256         | B                       | B      | w      |                      |        |        | B               |        |       |
|                |      | 65536           | 500        | 100000          | 256         | w                       | B      | B      |                      |        |        | B               |        |       |
|                |      |                 | 8000       | 100000          | 256         | w                       | B      | B      |                      |        |        | B               |        |       |
| rich structure | bit  | 4096            | 500        | 100000          | 32          |                         |        |        |                      |        |        |                 |        |       |
|                |      |                 |            |                 | 64          | B                       | B      | w      |                      |        |        |                 |        |       |
|                |      |                 |            |                 | 256         |                         |        |        |                      |        |        |                 |        |       |
|                |      | 65536           | 500        | 100000          | 32          | B                       | w      | w      |                      |        |        |                 |        |       |
|                |      |                 |            |                 | 64          | B                       | B      | w      |                      |        |        |                 |        |       |
|                |      |                 |            |                 | 256         | B                       | B      | w      | B                    | B      | w      |                 |        |       |
|                |      |                 | 8000       | 100000          | 32          | B                       | B      | w      |                      |        |        |                 |        |       |
|                |      |                 |            |                 | 64          | B                       | B      | w      |                      |        |        |                 |        |       |
|                |      |                 |            |                 | 256         | B                       | B      | w      | B                    | B      | w      |                 |        |       |
|                | byte | 4096            | 500        | 100000          | 256         |                         |        |        |                      |        |        | B               |        |       |
|                |      | 65536           | 500        | 100000          | 256         |                         |        |        |                      |        |        | B               |        |       |
|                |      |                 | 8000       | 100000          | 256         | B                       | B w    | w      |                      |        |        | B               |        |       |
| some structure | bit  | 4096            | 500        | 100000          | 32          | B                       |        | w      | w                    | w      | B      |                 |        |       |
|                |      |                 |            |                 | 64          | B                       |        | w      |                      | w      | B      |                 |        |       |
|                |      |                 |            |                 | 256         | B                       | B      | w      |                      |        |        |                 |        |       |
|                |      | 65536           | 500        | 100000          | 32          | B                       | B      | w      | w                    | w      | B      |                 |        |       |
|                |      |                 |            |                 | 64          | B                       | B      | w      |                      | w      | B      |                 |        |       |
|                |      |                 |            |                 | 256         | B                       |        | w      | B                    |        | w      |                 |        |       |
|                |      |                 | 8000       | 100000          | 32          | B                       | B      | w      | w                    | w      | B      |                 |        |       |
|                |      |                 |            |                 | 64          | B                       |        | w      |                      | w      | B      |                 |        |       |
|                |      |                 |            |                 | 256         | B                       | B      | w      | B                    |        | w      |                 |        |       |
|                | byte | 4096            | 500        | 100000          | 256         | B                       |        | w      |                      |        |        | B               |        |       |
|                |      | 65536           | 500        | 100000          | 256         | B                       |        | w      |                      |        |        | B               |        |       |
|                |      |                 | 8000       | 100000          | 256         | B                       |        | w      |                      |        |        | B               |        |       |
| zero structure | bit  | 4096            | 500        | 100000          | 32          | B                       |        | w      |                      | w      | B      |                 |        |       |
|                |      |                 |            |                 | 64          | B                       |        | w      |                      | w      | B      |                 |        |       |
|                |      |                 |            |                 | 256         | B                       | B      | w      | w                    | w      | B      |                 |        |       |
|                |      | 65536           | 500        | 100000          | 32          | B                       |        | w      | w                    | w      | B      |                 |        |       |
|                |      |                 |            |                 | 64          | B                       |        | w      | w                    | w      | B      |                 |        |       |
|                |      |                 |            |                 | 256         | B                       | B      | w      |                      | w      | B      |                 |        |       |
|                |      |                 | 8000       | 100000          | 32          | B                       | B      | w      | w                    | w      | B      |                 |        |       |
|                |      |                 |            |                 | 64          | B                       |        | w      |                      | w      | B      |                 |        |       |
|                |      |                 |            |                 | 256         | B                       | B      | w      | B                    | w      | B      |                 |        |       |
|                | byte | 4096            | 500        | 100000          | 256         | B                       |        | w      |                      | w      |        | B               |        |       |
|                |      | 65536           | 500        | 100000          | 256         | B                       |        | w      |                      |        |        | B               |        |       |
|                |      |                 | 8000       | 100000          | 256         | B                       |        | w      |                      |        |        | B               |        |       |