Binary coverage (bng random—la711 speed bins)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 3 | 1 | 1 | 4 | 15 | 22 | 104 | 92 | 56 | 256 | 71 | 8 | 0 | 0 | 0 |

Threshold cleanup

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 3 | 1 | 1 | 4 | 15 | 22 | 104 | 92 | 56 | 256 | 71 | 8 | 0 | 0 | 0 |
|  | | | | | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 15 | 22 | 104 | 92 | 56 | 256 | 71 | 0 | 0 | 0 | 0 |

Percentage cleanup

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 3 | 1 | 1 | 4 | 15 | 22 | 104 | 92 | 56 | 256 | 71 | 8 | 0 | 0 | 0 |
| 🡪 | | | | | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 104 | 92 | 56 | 256 | 71 | 0 | 0 | 0 | 0 |

Binary distance (bng random—la66 vs random—la711 speed bins)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 3 | 1 | 1 | 4 | 15 | 22 | 104 | 92 | 56 | 256 | 71 | 8 | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 3 | 3 | 15 | 6 | 28 | 10 | 6 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

* 🡪

Counting distance

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 3 | 1 | 1 | 4 | 15 | 22 | 104 | 92 | 56 | 256 | 71 | 8 | 0 | 0 | 0 |
| a: 640 states | | | | | | | | | | | | | | | |
| 7 | 3 | 3 | 15 | 6 | 28 | 10 | 6 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| b: 130 states 🡪 normalizing b using | | | | | | | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 3 | 1 | 1 | 4 | 15 | 22 | 104 | 92 | 56 | 256 | 71 | 8 | 0 | 0 | 0 |
| |  -  | | |  -  | | |  -  | | |  -  | | |  -  | | |  -  | | |  -  | | |  -  | | |  -  | | |  -  | | |  -  | | |  -  | | |  -  | | |  -  | | |  -  | | |  -  | |
| 34 | 15 | 15 | 74 | 30 | 138 | 49 | 30 | 256 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -27 | -12 | -14 | -73 | -26 | -123 | -27 | 74 | -164 | 56 | 256 | 71 | 8 | 0 | 0 | 0 |
| 🡪 | | | | | | | | | | | | | | | |

random—la711 translation, genau falsch, lol

[(STRAIGHT, MEDIUM), (LEFT, SHORT), (STRAIGHT, SHORT), (STRONG\_RIGHT, VERY\_LONG), (SLIGHT\_RIGHT, LONG), (LEFT, VERY\_LONG), (STRONG\_LEFT, VERY\_LONG), (RIGHT, LONG), (STRONG\_RIGHT, VERY\_LONG), (STRONG\_LEFT, VERY\_LONG), (LEFT, MEDIUM), (SLIGHT\_LEFT, SHORT), (STRAIGHT, LONG), (RIGHT, VERY\_LONG)]

Fixed

[(STRAIGHT, MEDIUM), (RIGHT, SHORT), (STRAIGHT, SHORT), (STRONG\_LEFT, VERY\_LONG), (SLIGHT\_LEFT, LONG), (RIGHT, VERY\_LONG), (STRONG\_RIGHT, VERY\_LONG), (LEFT, LONG), (STRONG\_LEFT, VERY\_LONG), (STRONG\_RIGHT, VERY\_LONG), (RIGHT, MEDIUM), (SLIGHT\_RIGHT, SHORT), (STRAIGHT, LONG), (LEFT, VERY\_LONG)]

Fixed reversed:

[(LEFT, VERY\_LONG), (STRAIGHT, LONG), (SLIGHT\_RIGHT, SHORT), (RIGHT, MEDIUM), (STRONG\_RIGHT, VERY\_LONG), (STRONG\_LEFT, VERY\_LONG), (LEFT, LONG), (STRONG\_RIGHT, VERY\_LONG), (RIGHT, VERY\_LONG), (SLIGHT\_LEFT, LONG), (STRONG\_LEFT, VERY\_LONG), (STRAIGHT, SHORT), (RIGHT, SHORT), (STRAIGHT, MEDIUM)]

random—la711 angles:

[0, -60, 0, 120, 30, -60, -45, -75, 45, 120, -90, -45, -15, 0, 60]

random—la711 lengths:

[50, 29.3, 30, 142.4, 67, 175.9, 132.9, 246.1, 53.4, 393.7, 169.6, 37.7, 17.8, 70, 134.0]

Random-la711 tuple:

[(0, 50), (-60, 29.3), (0, 30), (120, 142.4), (30, 67), (-60, 175.9), (-45, 132.9), (-75, 246.1), (45, 53.4), (120, 393.7), (-90, 169.6), (-45, 37.7), (-15, 17.8), (0, 70), (60, 134)]

Random-la711 tuple reversed:

[(60, 134), (0, 70), (-15, 17.8), (-45, 37.7), (-90, 169.6), (120, 393.7), (45, 53.4), (-75, 246.1), (-45, 132.9), (-60, 175.9), (30, 67), (120, 142.4), (0, 30), (-60, 29.3), (0, 50)]

Test road symbols comparison

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Road A | | | | | | | |
| (STRAIGHT, MEDIUM) | (RIGHT, SHORT) | (STRAIGHT, SHORT) | (STRONG\_LEFT, VERY\_LONG) | (SLIGHT\_LEFT, LONG), | (RIGHT, VERY\_LONG) | (STRONG\_RIGHT, VERY\_LONG) | (LEFT, LONG) |
| Road B | | | | | | | |
| (STRAIGHT, MEDIUM) | (SLIGHT\_LEFT,  LONG) | (LEFT,  LONG) | (STRAIGHT, SHORT) | (STRONG\_LEFT, VERY\_LONG) | (RIGTH,  VERY\_LONG) | (LEFT,  LONG) |  |
| LCS: [(STRAIGHT, MEDIUM), (STRAIGHT, SHORT), (STRONG\_LEFT, VERY\_LONG), (RIGHT, VERY\_LONG)] 🡪 4 🡪 | | | | | | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Road A | | | | | | | |
| (STRAIGHT, MEDIUM) | (RIGHT, SHORT) | (STRAIGHT, SHORT) | (STRONG\_LEFT, VERY\_LONG) | (SLIGHT\_LEFT, LONG), | (RIGHT, VERY\_LONG) | (STRONG\_RIGHT, VERY\_LONG) | (LEFT, LONG) |
| Road B | | | | | | | |
| (STRAIGHT, MEDIUM) | (SLIGHT\_LEFT,  LONG) | (LEFT,  LONG) | (STRAIGHT, SHORT) | (STRONG\_LEFT, VERY\_LONG) | (RIGTH,  VERY\_LONG) | (LEFT,  LONG) |  |
| LCStr: [(STRAIGHT, SHORT), (STRONG\_LEFT, VERY\_LONG)] 🡪 2 🡪 | | | | | | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Road A | | | | | | | |
| (STRAIGHT, MEDIUM) | (RIGHT, SHORT) | (STRAIGHT, SHORT) | (STRONG\_LEFT, VERY\_LONG) | (SLIGHT\_LEFT, LONG), | (RIGHT, VERY\_LONG) | (STRONG\_RIGHT, VERY\_LONG) | (LEFT, LONG) |
| Road B | | | | | | | |
| (STRAIGHT, MEDIUM) | (SLIGHT\_LEFT,  LONG) | (LEFT,  LONG) | (STRAIGHT, SHORT) | (STRONG\_LEFT, VERY\_LONG) | (RIGTH,  VERY\_LONG) | (LEFT,  LONG) |  |
| Jaccard:  Intersection: A ∩ B = = [(STRAIGHT, MEDIUM), (SLIGHT\_LEFT, LONG), (LEFT, LONG), (STRAIGHT, SHORT), (STRONG\_LEFT, VERY\_LONG), (RIGTH, VERY\_LONG)]  Union: A ∪ B = + = [(STRAIGHT, MEDIUM), (SLIGHT\_LEFT, LONG), (LEFT, LONG), (STRAIGHT, SHORT), (STRONG\_LEFT, VERY\_LONG), (RIGTH, VERY\_LONG), (RIGHT, SHORT), (STRONG\_RIGHT, VERY\_LONG)]  🡪 | | | | | | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| STRAIGHT: 0 | RIGHT: 2 | STRAIGHT: 0 | STRONG\_LEFT: -3 | SLIGHT\_LEFT:  -1 | RIGHT: 2 | STRONG\_RIGHT: 3 | LEFT: -2 |
| | | | | | | | | | | | | | |  |
| STRAIGHT: 0 | SLIGHT\_LEFT: -1 | LEFT: -2 | STRAIGHT: 0 | STRONG\_LEFT: -3 | RIGTH: 2 | LEFT: -2 |  |
| 0 | 3 | 2 | 3 | 2 | 0 | 5 |  |
| Curvature sliding window at start point 0: 🡪 | | | | | | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Road A | | | | | | | |
| (STRAIGHT, MEDIUM) | (RIGHT, SHORT) | (STRAIGHT, SHORT) | (STRONG\_LEFT, VERY\_LONG) | (SLIGHT\_LEFT, LONG), | (RIGHT, VERY\_LONG) | (STRONG\_RIGHT, VERY\_LONG) | (LEFT, LONG) |
| Road B | | | | | | | |
| (STRAIGHT, MEDIUM) | (SLIGHT\_LEFT,  LONG) | (LEFT,  LONG) | (STRAIGHT, SHORT) | (STRONG\_LEFT, VERY\_LONG) | (RIGTH,  VERY\_LONG) | (LEFT,  LONG) |  |
| LCStr 1 mismatch: [(STRAIGHT, SHORT), (STRONG\_LEFT, VERY\_LONG), (RIGTH, VERY\_LONG)] 🡪 3 🡪 | | | | | | | |

Shorter roads for presentation

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Road A | | | | | | | |
| A | B | C | D | E | F | G | H |
| Road B | | | | | | | |
| A | E | H | C | D | F | H |  |
| Jaccard shorter test | | | | | | | |