

Recherche de la meilleure valeur pour maxiter:

| Code | (100 % , 90 % , 80 %) |
|-----------------|--|
| (GF(2),96,32) | (23, 8, 6), (23, 9, 7), (21, 8, 6), (20, 8, 6), (1, 1, 1), |
| (GF(3),96,32) | (10, 4, 1), (10, 4, 3), (1, 1, 1), |
| (GF(4),96,32) | (8, 3, 1), (1, 1, 1), |
| (GF(5),96,32) | (7, 3, 1), (6, 3, 1), (1, 1, 1), |
| (GF(2),99,33) | (27, 8, 6), (22, 9, 7), (21, 9, 6), (1, 1, 1), |
| (GF(3),99,33) | (15, 4, 3), (13, 4, 3), (11, 4, 3), (10, 4, 3), (1, 1, 1), |
| (GF(4),99,33) | (9, 3, 1), (7, 3, 1), (1, 1, 1), |
| (GF(5),99,33) | (6, 3, 1), (1, 1, 1), |
| (GF(2),128,32) | (28, 8, 6), (27, 8, 6), (22, 8, 6), (21, 8, 6), (1, 1, 1), |
| (GF(3),128,32) | (12, 4, 3), (12, 4, 1), (1, 1, 1), |
| (GF(4),128,32) | (9, 3, 1), (8, 3, 1), (7, 3, 1), (1, 1, 1), |
| (GF(5),128,32) | (6, 3, 1), (1, 1, 1), |
| (GF(2),60,15) | (23, 8, 6), (20, 8, 6), (19, 8, 6), (1, 1, 1), |
| (GF(3),60,15) | (14, 4, 1), (11, 4, 3), (10, 4, 3), (9, 4, 3), (1, 1, 1), |
| (GF(4),60,15) | (10, 3, 1), (9, 4, 3), (8, 3, 1), (7, 4, 3), |
| (GF(5),60,15) | (8, 3, 1), (7, 3, 1), (6, 3, 1), (1, 1, 1), |
| (GF(2),68,17) | (30, 8, 6), (26, 8, 7), (25, 8, 6), (24, 8, 6), (21, 8, 6), (22, 8, 6) |
| (GF(3),68,17) | (11, 4, 3), (11, 5, 4), (9, 4, 3), (1, 1, 1), |
| (GF(4),68,17) | (10, 4, 3), (9, 4, 3), (1, 1, 1), |
| (GF(5),68,17) | (9, 3, 1), (7, 3, 1), (1, 1, 1) |
| (GF(2),36,9) | (30, 8, 6), (26, 8, 6), (25, 9, 7), (25, 8, 6), (22, 9, 7), (21, 9, 7), (1, 1, 1), |
| (GF(2),40,10) | (26, 8, 6), (21, 8, 6), (20, 7, 6), (19, 8, 6), (1, 1, 1), |
| (GF(2), 32, 8) | (34, 13, 10), (32, 9, 7), (28, 10, 7), (26, 8, 6), (25, 10, 7), (21, 8, 6), (1, 1, 1), |
| (GF(2),35,6) | (6, 3, 2), (4, 2, 1), (1, 1, 1), |
| (GF(2), 96, 32) | (24, 8, 6), (22, 8, 6), (21, 8, 6), (20, 9, 6), (1, 1, 1), |

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| (GF(2), 44, 11) | (28, 10, 7), (27, 9, 7), (22, 9, 6), (21, 7, 6), (20, 8, 6), (19, 8, 6) |
| (GF(2), 111, 11) | (13, 4, 3), (10, 4, 3), (10, 4, 1), (9, 4, 3), (1, 1, 1), |
| (GF(2), 99, 33) | (32, 8, 6), (29, 8, 6), (28, 9, 6), (25, 8, 6), (24, 9, 6), (24, 8, 6), (22, 8, 6), (20, 8, 6), |
| (GF(2), 111, 33) | (1, 1, 1) |
| (GF(2), 48, 12) | (28, 9, 7), (22, 8, 6), (21, 9, 7), (20, 8, 6), (19, 8, 6), (1, 1, 1) |
| (GF(2), 60, 14) | (4, 2, 1), (1, 1, 1), |
| (GF(2), 100, 14) | (7, 3, 1), (6, 3, 1), (5, 3, 1), (1, 1, 1), |
| (GF(2), 100, 20) | (33, 8, 6), (30, 8, 6), (23, 8, 6), (22, 9, 7), (22, 8, 6), (20, 8, 6), (19, 8, 6), (1, 1, 1), |
| (GF(2), 100, 25) | (34, 8, 6), (29, 8, 6), (28, 8, 6), (27, 8, 6), (26, 8, 6), (25, 8, 6), (20, 8, 6), (1, 1, 1), |
| (GF(2), 95, 25) | (1, 1, 1) |
| (GF(2), 195, 13) | (32, 8, 6), (30, 8, 6), (26, 8, 6), (25, 8, 6), (23, 8, 6), (22, 9, 6), (21, 8, 6), (1, 1, 1), |
| (GF(2), 200, 22) | (7, 3, 1), (6, 3, 2), (6, 3, 1), (1, 1, 1), |
| (GF(2), 78, 11) | (13, 4, 3), (11, 4, 3), (10, 4, 3), (9, 4, 3), (8, 4, 3), (1, 1, 1), |
| (GF(2), 500, 100) | (38, 8, 6), (26, 8, 6), (23, 8, 6), (22, 8, 6), (21, 8, 6), (1, 1, 1), |
| (GF(2), 300, 60) | (32, 8, 6), (30, 8, 6), (22, 8, 6), (21, 8, 6), (18, 8, 6), (1, 1, 1), |
| (GF(2), 123, 13) | (3, 2, 1), (1, 1, 1), |

On prend $\max_{iter} = 20$

Comparaison du temps d'exécution entre minimum_distance et Zimmerman

| Code | minimum_distance (s) | Zimmerman (s) | minimum_distance/Zimmerman |
|-----------------|-----------------------------|----------------------|-----------------------------------|
| (GF(13), 58, 6) | 2,19 | 60 | 0,0365 |
| (GF(4), 73, 11) | 2,23 | 37,1 | 0,060107817 |
| (GF(11), 44, 8) | 78 | 341 | 0,2287390029 |
| (GF(25), 28, 5) | 3,64 | 10,8 | 0,337037037 |
| (GF(3), 73, 15) | 9,22 | 26,1 | 0,353256705 |
| (GF(7), 34, 7) | 0,433 | 1,05 | 0,4123809524 |

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| (GF(5), 55, 12) | 110 | 266 | 0,4135338346 |
| (GF(3), 80, 17) | 85 | 197 | 0,4314720812 |
| (GF(4),73,15) | 500 | 832 | 0,6009615385 |
| (GF(7),49,10) | 122 | 193 | 0,6321243523 |
| (GF(2), 135, 32) | 157 | 185 | 0,8486486486 |
| (GF(2), 138, 32) | 155 | 182 | 0.8516483516483516 |
| (GF(2), 118, 32) | 136 | 143 | 0,951048951 |
| | | | |
| (GF(9), 44, 9) | 144 | 133 | 1,082706767 |
| (GF(7),36,9) | 15,2 | 11,5 | 1,32173913 |
| (GF(7), 36, 9) | 14,7 | 11,1 | 1,324324324 |
| (GF(5), 48, 12) | 100 | 71 | 1,408450704 |
| (GF(3), 64, 16) | 25,5 | 16,2 | 1,574074074 |
| (GF(5), 43, 12) | 102 | 61 | 1.6721311475 |
| (GF(7), 31, 8) | 3,76 | 2,18 | 1,724770642 |
| (GF(9), 47, 10) | 1353 | 757 | 1,787318362 |
| (GF(2), 128, 32) | 136 | 69 | 1,971014493 |
| (GF(9), 32, 8) | 14,6 | 7,21 | 2,024965326 |
| (GF(3), 60, 15) | 8,56 | 3,91 | 2,189258312 |
| (GF(5), 44, 11) | 20,6 | 9,12 | 2,25877193 |
| (GF(3), 68, 17) | 78 | 31 | 2,516129032 |
| (GF(7), 40, 10) | 107 | 34,8 | 3,074712644 |
| (GF(7),39,10) | 111 | 35,3 | 3,144475921 |
| (GF(9), 34, 9) | 131 | 40,4 | 3,242574257 |
| (GF(9), 36, 9) | 134 | 40,8 | 3,284313725 |
| (GF(5),44,15) | > 1200 | 319 | 3,761755486 |
| (GF(8), 40, 10) | 342 | 80 | 4,275 |
| (GF(8),39,10) | 357 | 79 | 4,518987342 |

[illegible]