**4 128**

Performance Evaluation Result:

N = 4, F = 128

[249, 189, 89, 216]

phrase1 msg = 787, phrase2 msg = 2585

Performance Evaluation Result:

P = 4, F = 128

[227, 108, 42, 88]

phrase1 msg = 775, phrase2 msg = 2337

Performance Evaluation Result:

P = 4, F = 128

[250, 123, 165, 90]

phrase1 msg = 761, phrase2 msg = 2624

Performance Evaluation Result:

P = 4, F = 128

[79, 91, 175, 102]

phrase1 msg = 799, phrase2 msg = 2389

Performance Evaluation Result:

P = 4, F = 128

[58, 199, 196, 14]

phrase1 msg = 731, phrase2 msg = 2759

**8 128**

Performance Evaluation Result:

P = 8, F = 128

[8, 147, 143, 129, 118, 106, 50, 70]

phrase1 msg = 1837, phrase2 msg = 3098

Performance Evaluation Result:

P = 8, F = 128

[214, 180, 238, 112, 121, 60, 155, 148]

phrase1 msg = 1805, phrase2 msg = 3113

Performance Evaluation Result:

P = 8, F = 128

[174, 198, 27, 38, 26, 15, 165, 58]

phrase1 msg = 1729, phrase2 msg = 3092

Performance Evaluation Result:

P = 8, F = 128

[123, 18, 247, 145, 74, 230, 226, 196]

phrase1 msg = 1701, phrase2 msg = 2973

Performance Evaluation Result:

P = 8, F = 128

[229, 130, 103, 193, 202, 162, 156, 96]

phrase1 msg = 1807, phrase2 msg = 3146

**10 128**

Performance Evaluation Result:

P = 10, F = 128

[249, 243, 16, 121, 31, 188, 157, 75, 152, 6]

phrase1 msg = 2217, phrase2 msg = 3108

Performance Evaluation Result:

P = 10, F = 128

[150, 123, 156, 60, 81, 235, 147, 222, 231, 201]

phrase1 msg = 2301, phrase2 msg = 3491

Performance Evaluation Result:

P = 10, F = 128

[29, 124, 77, 127, 38, 129, 121, 82, 15, 52]

phrase1 msg = 2203, phrase2 msg = 3108

Performance Evaluation Result:

P = 10, F = 128

[68, 41, 128, 185, 213, 162, 212, 245, 26, 49]

phrase1 msg = 2379, phrase2 msg = 3330

Performance Evaluation Result:

P = 10, F = 128

[241, 88, 104, 143, 23, 216, 124, 146, 44, 234]

phrase1 msg = 2429, phrase2 msg = 3683

**20 128**

P = 20, F = 128

[67, 57, 187, 180, 172, 30, 55, 24, 115, 127, 86, 96, 60, 247, 218, 223, 126, 91, 47, 226]

phrase1 msg = 5815, phrase2 msg = 4337

Performance Evaluation Result:

P = 20, F = 128

[68, 84, 16, 20, 164, 114, 200, 18, 236, 191, 205, 188, 35, 216, 187, 192, 173, 143, 138, 39]

phrase1 msg = 5273, phrase2 msg = 4143

Performance Evaluation Result:

P = 20, F = 128

[145, 126, 22, 221, 115, 87, 76, 70, 208, 81, 91, 173, 53, 249, 101, 95, 191, 28, 218, 136]

phrase1 msg = 5689, phrase2 msg = 4227

Performance Evaluation Result:

P = 20, F = 128

[209, 39, 173, 142, 76, 134, 192, 199, 23, 191, 88, 53, 89, 121, 75, 56, 18, 111, 146, 158]

phrase1 msg = 5675, phrase2 msg = 4146

Performance Evaluation Result:

P = 20, F = 128

[51, 16, 239, 223, 203, 35, 72, 57, 23, 248, 9, 210, 232, 117, 143, 255, 229, 170, 32, 164]

phrase1 msg = 5283, phrase2 msg = 3992

**30 128**

Performance Evaluation Result:

P = 30, F = 128

[207, 243, 130, 73, 12, 159, 225, 111, 48, 146, 131, 190, 202, 200, 220, 70, 55, 101, 21, 121, 236, 247, 147, 232, 85, 238, 194, 30, 54, 157]

phrase1 msg = 9337, phrase2 msg = 4587

Performance Evaluation Result:

P = 30, F = 128

[34, 215, 59, 166, 3, 2, 155, 6, 138, 225, 23, 195, 172, 192, 252, 76, 231, 4, 212, 185, 147, 93, 243, 186, 210, 33, 178, 245, 188, 85]

phrase1 msg = 9109, phrase2 msg = 4279

Performance Evaluation Result:

P = 30, F = 128

[138, 19, 252, 177, 107, 148, 211, 171, 30, 212, 172, 18, 223, 220, 199, 190, 66, 198, 81, 27, 117, 111, 29, 129, 2, 155, 173, 79, 104, 125]

phrase1 msg = 9095, phrase2 msg = 4810

Performance Evaluation Result:

P = 30, F = 128

[35, 43, 176, 32, 217, 63, 107, 10, 132, 243, 84, 153, 126, 233, 53, 102, 131, 123, 113, 127, 251, 103, 106, 116, 241, 20, 8, 29, 59, 100]

phrase1 msg = 9259, phrase2 msg = 4362

Performance Evaluation Result:

P = 30, F = 128

[121, 224, 133, 167, 243, 117, 165, 100, 124, 217, 207, 55, 107, 80, 82, 249, 75, 173, 212, 51, 20, 63, 161, 206, 176, 175, 140, 14, 233, 2]

phrase1 msg = 8961, phrase2 msg = 4865