Experiments varying beta while keeping benefit fixed:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Benefit** | **Beta** | **Passmutall** | **Singledef** | **AM** | **%** | **Bits** |
| 20160428-1 | 8 | 1 | False | False | False | 9.8% | 1 0 0 1 1 X 0 1 |
| 20160428-2 | 8 | 10 | False | False | False | 9.6% | 1 0 0 1 1 0 0 1 |
| 20160428-3 | 8 | 102 | False | False | False | 11.6% | 1 0 0 1 1 X 0 1 |
| 20160428-4 | 8 | 103 | False | False | False | 11.2% | 1 0 0 1 1 X 0 1 |
| 20160428-5 | 8 | 104 | False | False | False | 9.2% | 1 0 0 1 1 0 0 1 |
| 20160428-6 | 8 | 105 | False | False | False | 11.8% | 1 0 0 1 1 0 0 1 |
| 20160429-1 | 8 | 1 | True | False | False | 11% | 1 0 0 1 1 X 0 1 |
| 20160429-2 | 8 | 10 | True | False | False | 9.6% | 1 0 0 1 1 0 0 1 |
| 20160429-3 | 8 | 102 | True | False | False | 10.2% | 1 0 0 1 1 0 0 1 |
| 20160429-4 | 8 | 103 | True | False | False | 8.4% | 1 0 0 1 1 0 0 1 |
| 20160429-5 | 8 | 104 | True | False | False | 9.8% | 1 0 0 1 1 0 0 1 |
| 20160429-6 | 8 | 105 | True | False | False | 7.6% | 1 0 0 1 1 0 0 1 |
| 20160503-1 | 8 | 1 | False | True | False | 9.4% | 1 0 0 1 1 0 0 1 |
| 20160503-2 | 8 | 10 | False | True | False | 9.4% | 1 0 0 1 1 0 0 1 |
| 20160503-3 | 8 | 102 | False | True | False | 12% | 1 0 0 1 1 0 0 1 |
| 20160503-4 | 8 | 103 | False | True | False | 9% | 1 0 0 1 1 X 0 1 |
| 20160503-5 | 8 | 104 | False | True | False | 8.8% | 1 0 0 X 1 0 0 1 |
| 20160503-6 | 8 | 105 | False | True | False | 9.6% | 1 0 0 1 1 0 0 1 |
| 20160507-1 | 8 | 1 | True | True | False | 9.8% | 1 0 0 1 1 0 0 1 |
| 20160507-2 | 8 | 10 | True | True | False | 11.2% | 1 0 0 1 1 0 0 1 |
| 20160507-3 | 8 | 102 | True | True | False | 9.0% | 1 0 0 1 1 0 0 1 |
| 20160507-4 | 8 | 103 | True | True | False | 8.0% | 1 0 0 1 1 X 0 1 |
| 20160507-5 | 8 | 104 | True | True | False | 9.8% | 1 0 0 1 1 0 0 1 |
| 20160507-6 | 8 | 105 | True | True | False | 9.0% | 1 0 0 1 1 0 0 1 |

Experiments varying benefit while keeping beta fixed:

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Benefit** | **Beta** | **Passmutall** | **Singledef** | **AM** | **%** | **Bits** |
| 20160424-2 | 2 | 103 | False | False | False | 10.2% | 1 0 1 1 0 0 0 0 |
| 20160426-1 | 4 | 103 | False | False | False | 4.6% | 1 0 X 1 X 0 0 1 |
| 20160426-2 | 6 | 103 | False | False | False | 5.2% | 1 0 X X 1 0 0 1 |
| 20160426-3 | 8 | 103 | False | False | False | 8.2% | 1 0 0 1 1 0 0 1 |
| 20160426-4 | 10 | 103 | False | False | False | 19% | 1 0 0 1 1 1 0 1 |
| 20160426-5 | 12 | 103 | False | False | False | 34.6% | 1 0 1 1 0 1 0 1 |
| 20160426-6 | 14 | 103 | False | False | False | 55.2% | 1 0 1 1 0 1 0 1 |
| 20160426-7 | 16 | 103 | False | False | False | 67% | 1 0 1 1 1 1 0 1 |
| 20160426-8 | 18 | 103 | False | False | False | 76.6% | 1 0 1 1 1 1 0 1 |
| 20160426-9 | 20 | 103 | False | False | False | 85.2% | 1 0 1 1 1 1 0 0 |
| 20160430-1 | 2 | 103 | True | False | False | 8.6% | 1 0 1 1 0 0 0 0 |
| 20160430-2 | 4 | 103 | True | False | False | 4.4% | 1 0 X 1 1 0 0 1 |
| 20160430-3 | 6 | 103 | True | False | False | 6.6% | 1 0 0 1 1 0 0 1 |
| 20160430-4 | 8 | 103 | True | False | False | 11.2% | 1 0 0 1 1 0 0 1 |
| 20160430-5 | 10 | 103 | True | False | False | 19.4% | 1 0 X 1 X 1 0 1 |
| 20160430-6 | 12 | 103 | True | False | False | 31.6% | 1 0 1 1 X 1 0 1 |
| 20160430-7 | 14 | 103 | True | False | False | 52.4% | 1 0 1 1 0 1 0 1 |
| 20160430-8 | 16 | 103 | True | False | False | 63.4% | 1 0 1 1 1 1 0 1 |
| 20160430-9 | 18 | 103 | True | False | False | 78% | 1 0 1 1 1 1 0 1 |
| 20160430-10 | 20 | 103 | True | False | False | 85.2% | 1 0 1 1 1 1 0 1 |
| 20160508-1 | 2 | 103 | False | True | False | 8.6% | 1 0 1 1 0 0 0 0 |
| 20160508-2 | 4 | 103 | False | True | False | 5.0% | 1 0 0 1 1 0 0 1 |
| 20160508-3 | 6 | 103 | False | True | False | 5.6% | 1 0 0 1 1 0 0 1 |
| 20160508-4 | 8 | 103 | False | True | False | 8.8% | 1 0 0 1 1 0 0 1 |
| 20160508-5 | 10 | 103 | False | True | False | 14.0% | 1 0 0 1 1 X 0 1 |
| 20160508-6 | 12 | 103 | False | True | False | 33.0% | 1 0 1 1 0 1 0 1 |
| 20160508-7 | 14 | 103 | False | True | False | 55.0% | 1 0 1 1 0 1 0 1 |
| 20160508-8 | 16 | 103 | False | True | False | 64.4% | 1 0 1 1 0 1 0 1 |
| 20160508-9 | 18 | 103 | False | True | False | 71.0% | 1 0 1 1 1 1 0 X |
| 20160508-10 | 20 | 103 | False | True | False | 82.6% | 1 0 1 1 1 1 0 X |

Passmutall, singledef, adaptive mutation

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **Passmutall** | **Singledef** | **AM** | **% Good Data** | **Bits** |
| 20160414 | True | True | True | 0.2% | X X X X X X X X |
| 20160413-1 | True | True | False | 3% | 1 0 X X 1 0 0 1 |
| 20160420-1 | True | False | True | 0% | N/A |
| 20160413-3 | True | False | False | 5.8% | 1 0 X 1 1 0 0 1 |
| 20160415 | True | False | False | 4% | 1 0 X X **0** 0 0 1 |
| 20160420-2 | False | True | True | 0% | N/A |
| 20160413-2 | False | True | False | 4% | 1 0 X 1 1 0 0 1 |
| 20160420-3 | False | False | True | 0% | N/A |
| 20160419-1 | False | False | False | 6.6% | 1 0 X 1 1 0 0 1 |

Experiments modifying error rates:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Benefit** | **Beta** | **Passmutall** | **Singledef** | **AM** | **Paserr** | **Pexeerr** | **%** | **Bits** |
| 20160428-7 | 8 | 103 | False | False | False | 0 | 0 | 61.6% | 1 0 1 1 0 0 0 0 |