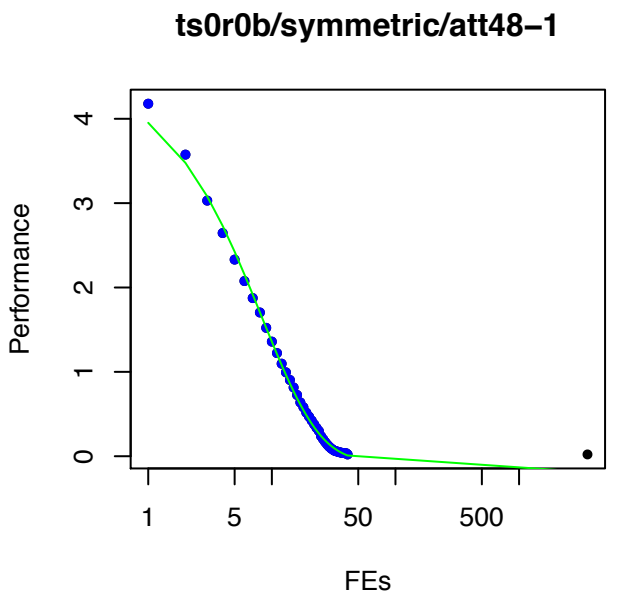
ts0r0b/symmetric/att48−1
Performance
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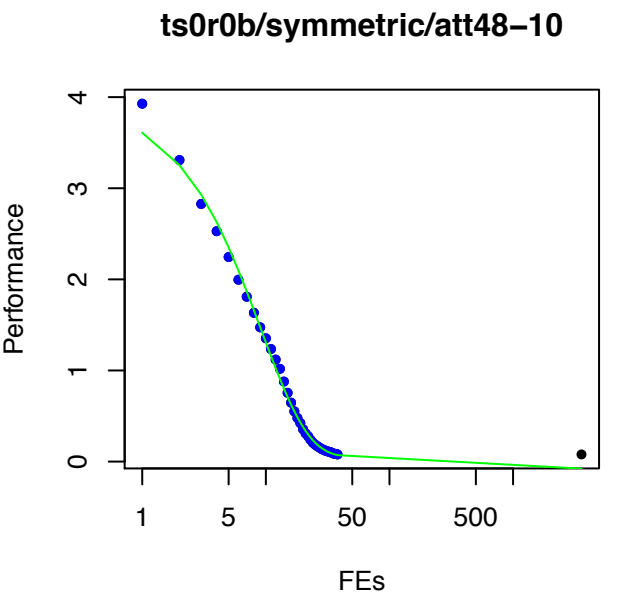
FEs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Performance
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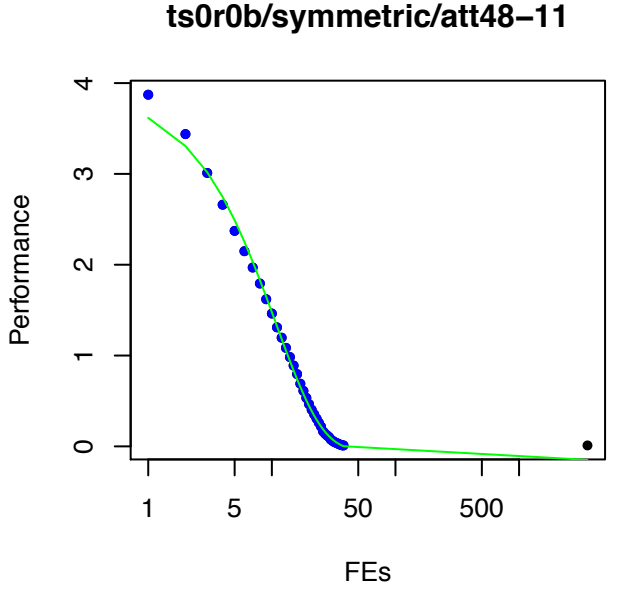
FEs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Performance
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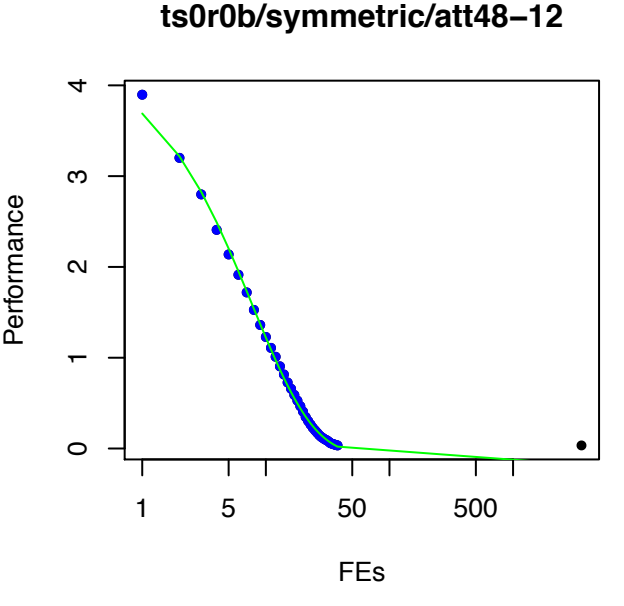
FEs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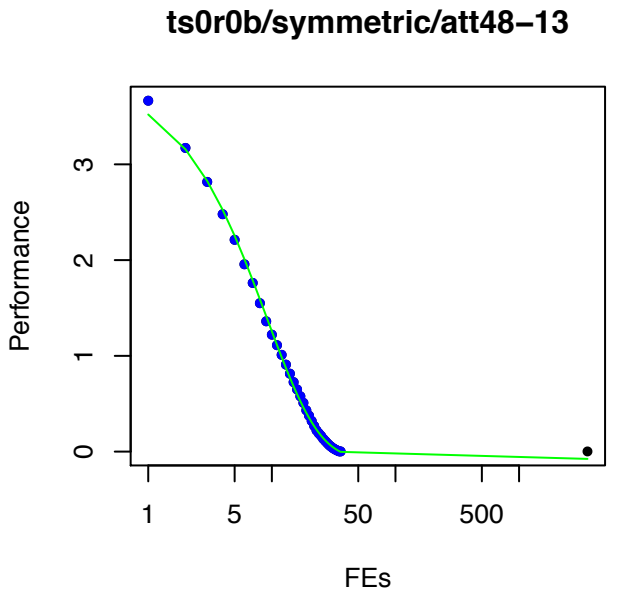
FEs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Performance
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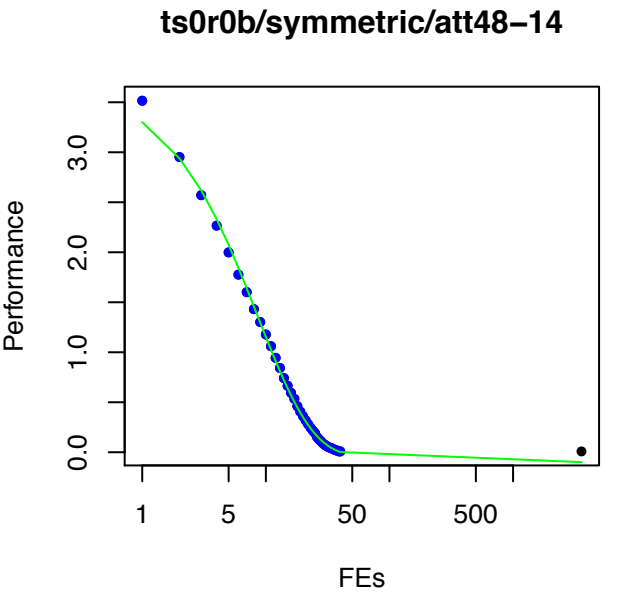
FEs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Performance
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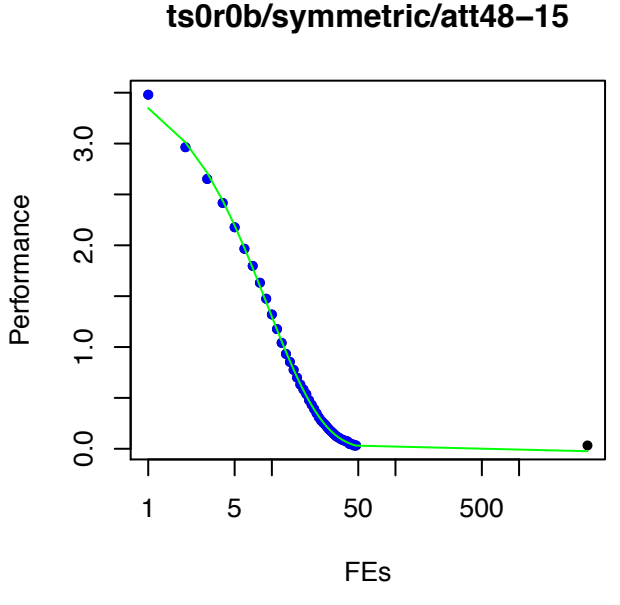
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Performance
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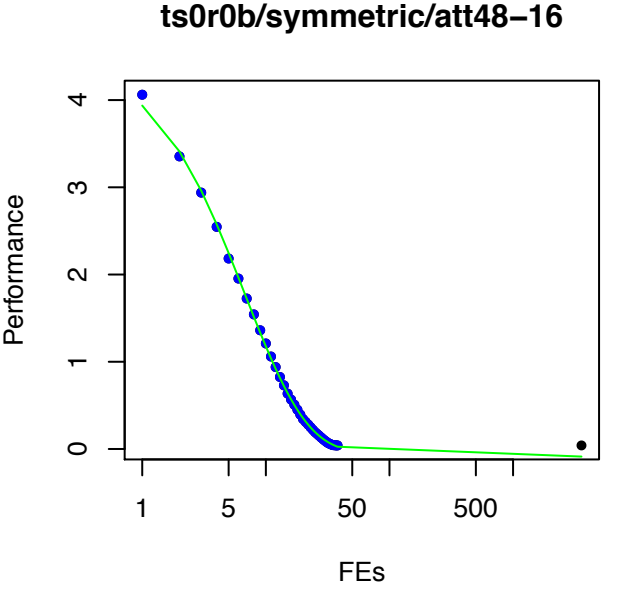
FEs


ts0r0b/symmetric/att48−16
Performance
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3
4
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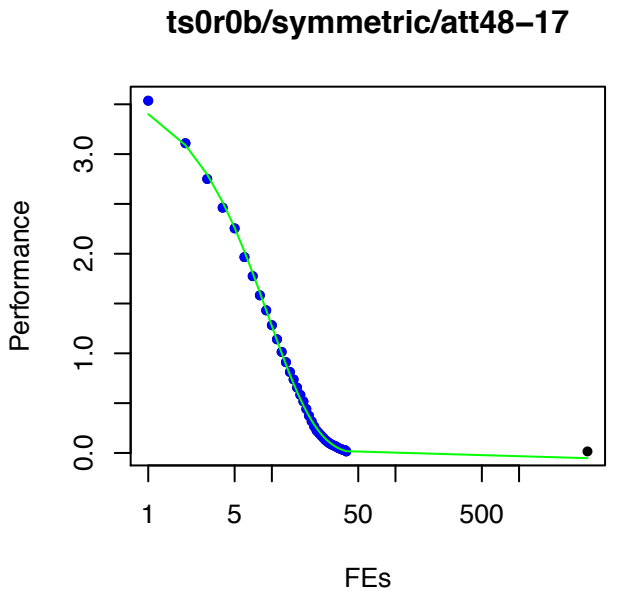
500
FEs


ts0r0b/symmetric/att48−17
Performance
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5
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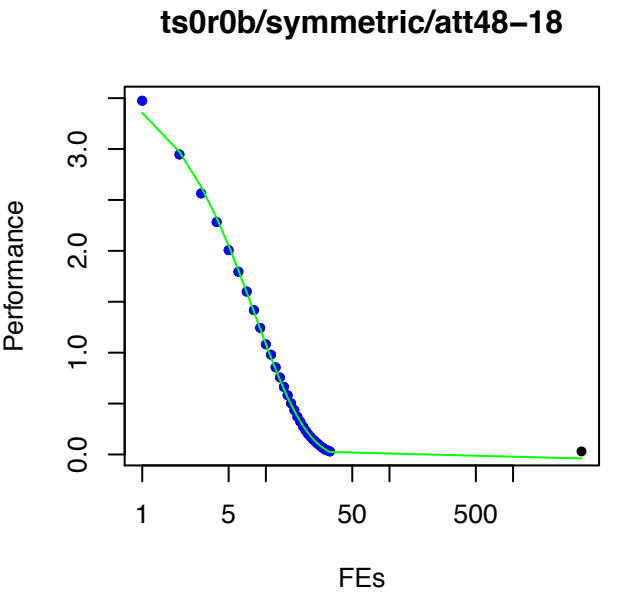
500
FEs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Performance
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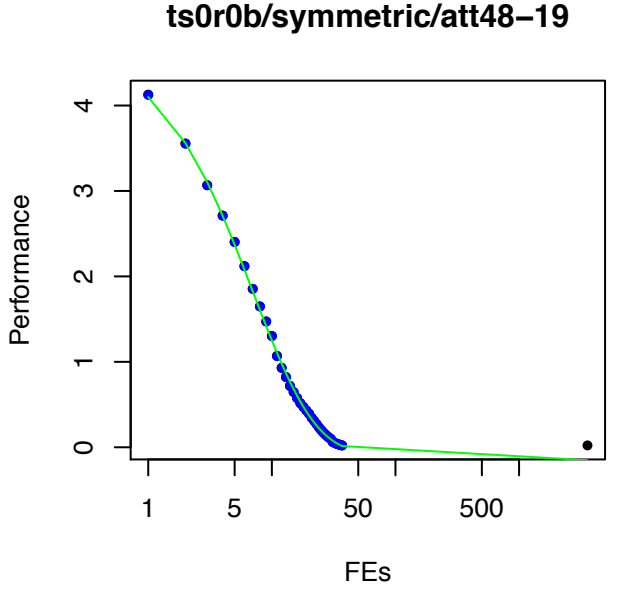
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/att48−19
Performance
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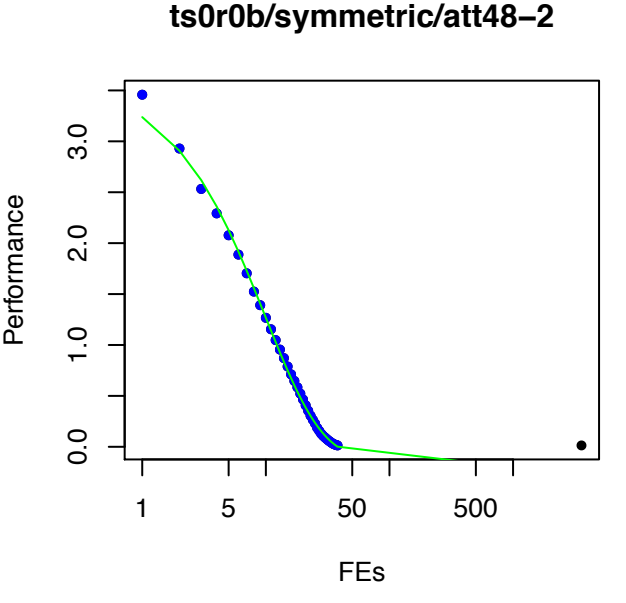
2
3
4
1
5
50
500
FEs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Performance
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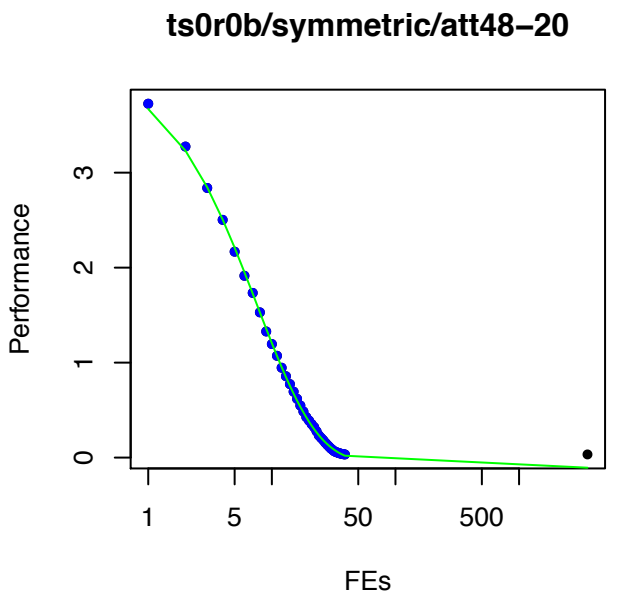
2.0
3.0
1
5
50
500
FEs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Performance
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3
1
5
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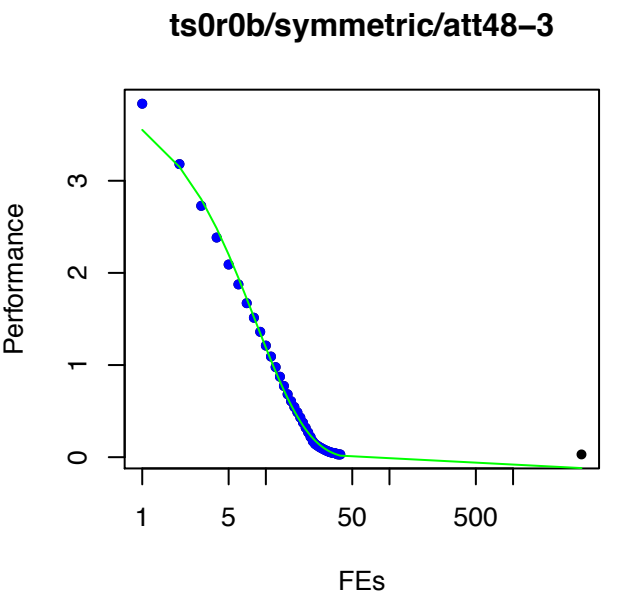
500
FEs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Performance
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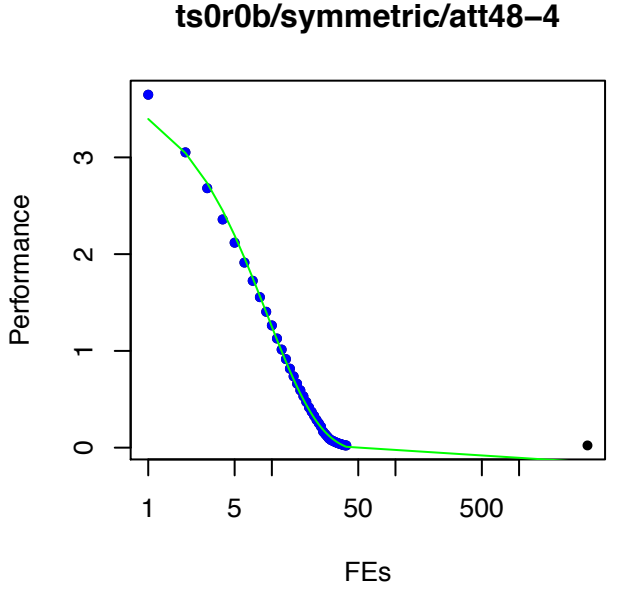
2
3
1
5
50
500
FEs


ts0r0b/symmetric/att48−4
Performance
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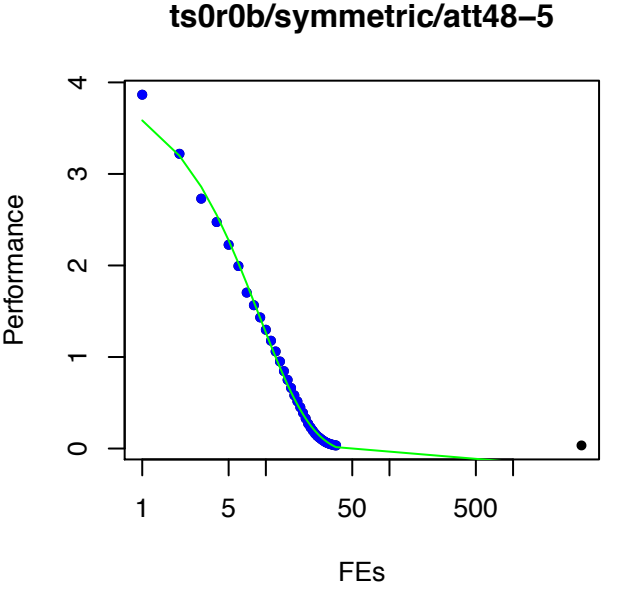
2
3
1
5
50
500
FEs


ts0r0b/symmetric/att48−5
Performance
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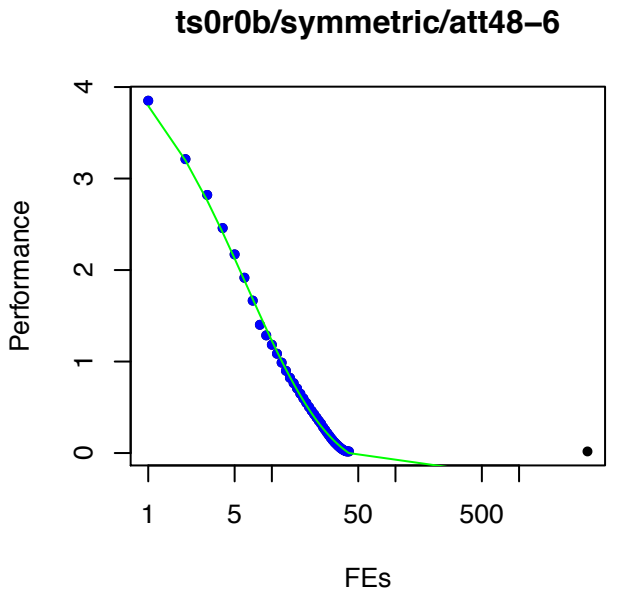
1
2
3
4
1
5
50
500
FEs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Performance
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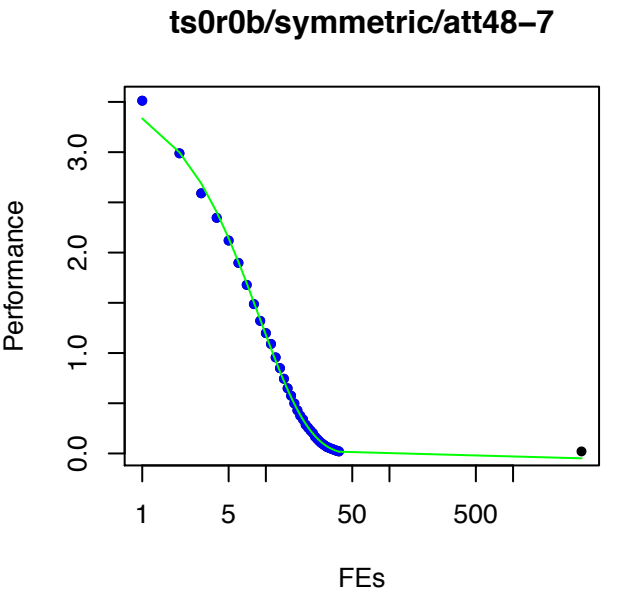
2
3
4
1
5
50
500
FEs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Performance
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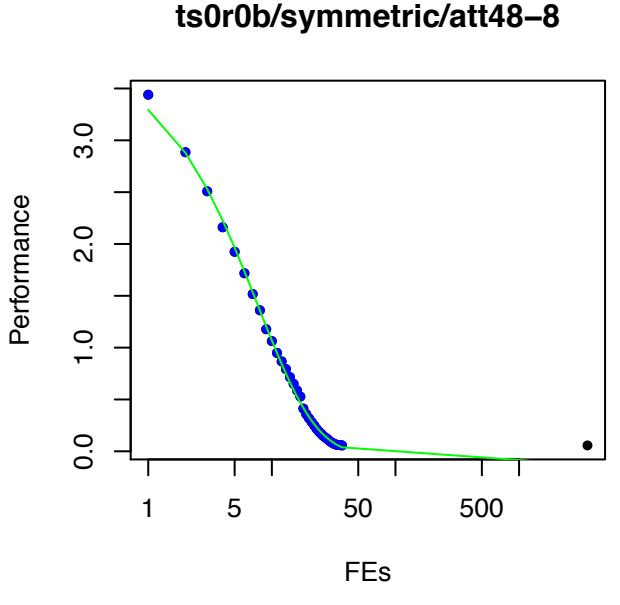
3.0
1
5
50
500
FEs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Performance
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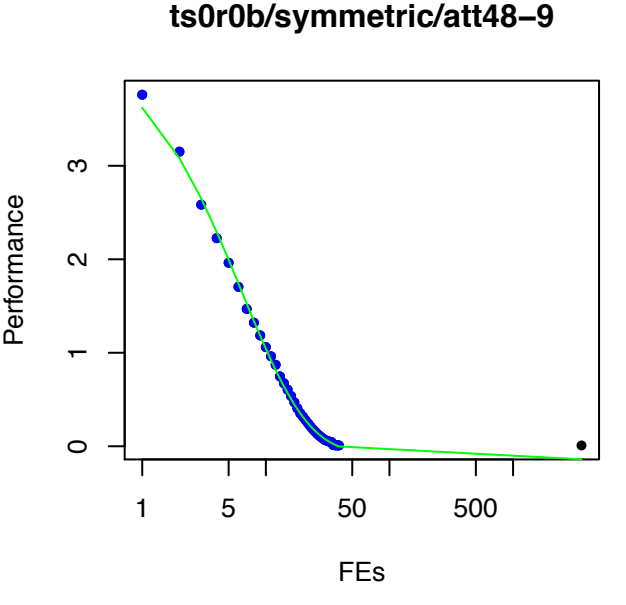
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/att48−9
Performance
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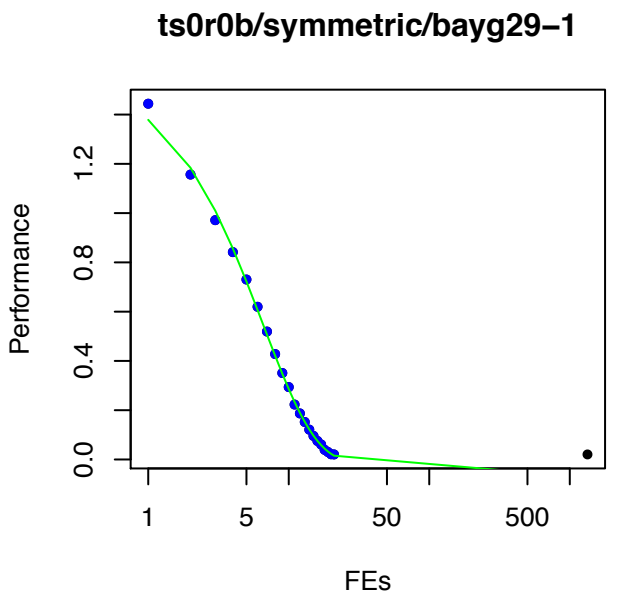
1
2
3
1
5
50
500
FEs


ts0r0b/symmetric/bayg29−1
Performance
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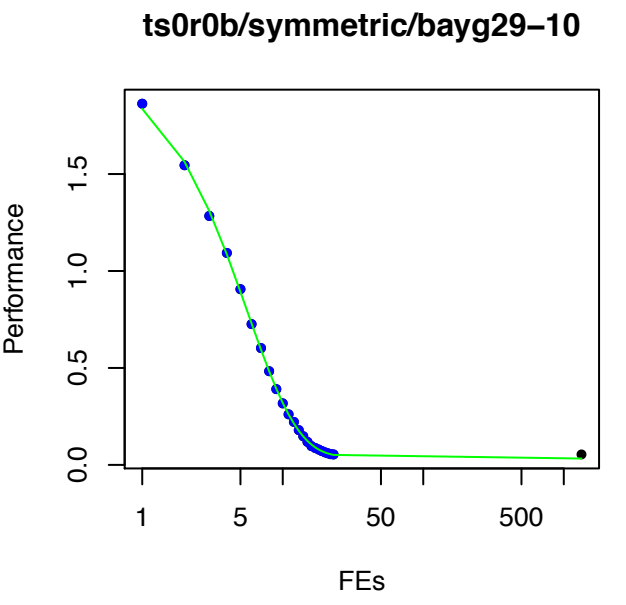
0.8
1.2
1
5
50
500
FEs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Performance
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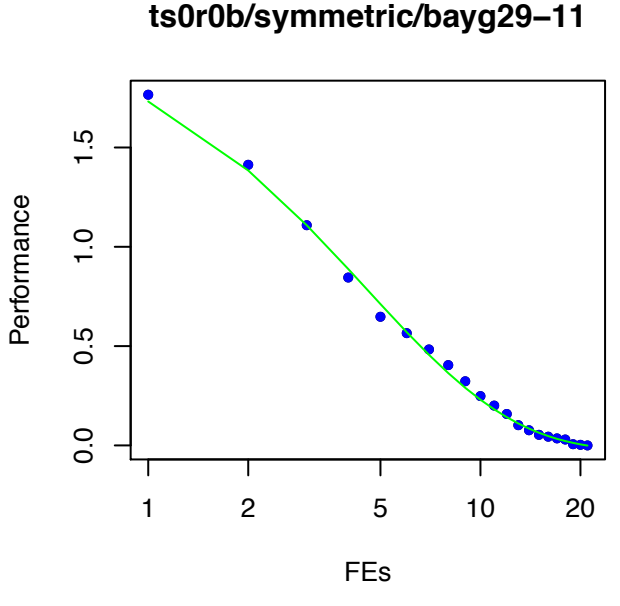
1.5
1
5
50
500
FEs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Performance
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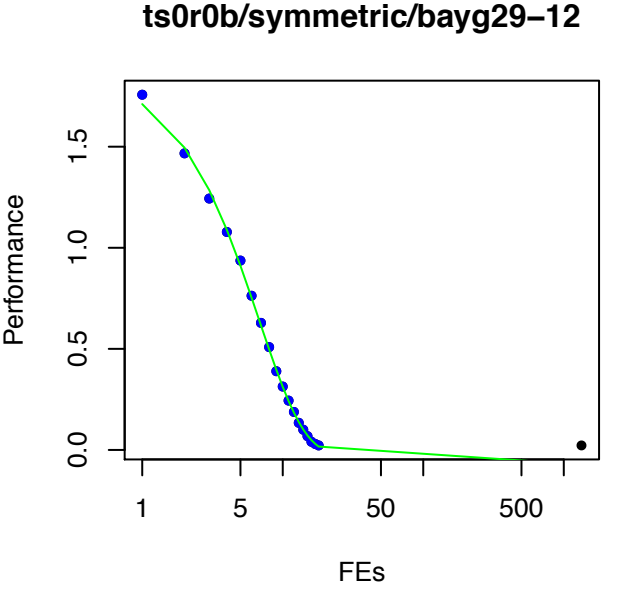
1.5
1
2
5
10
20
FEs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Performance
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1.5
1
5
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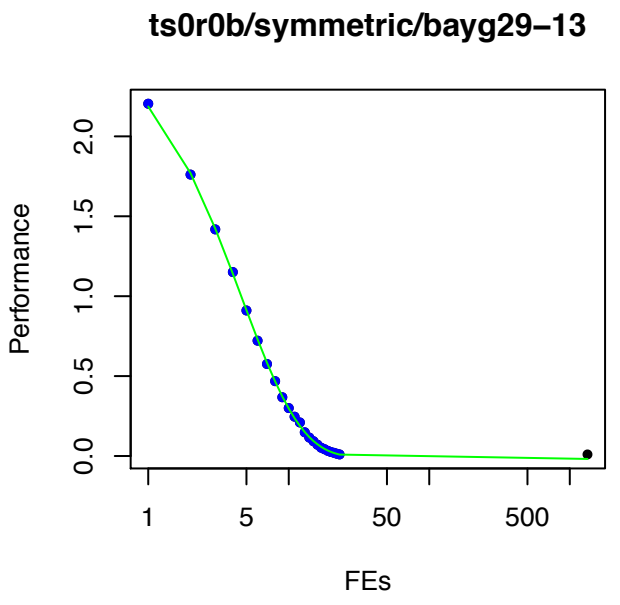
500
FEs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Performance
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2.0
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5
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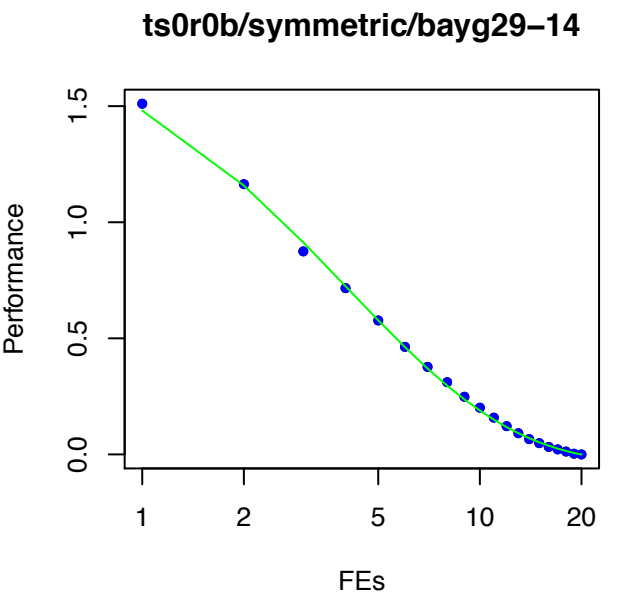
FEs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Performance
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1.5
1
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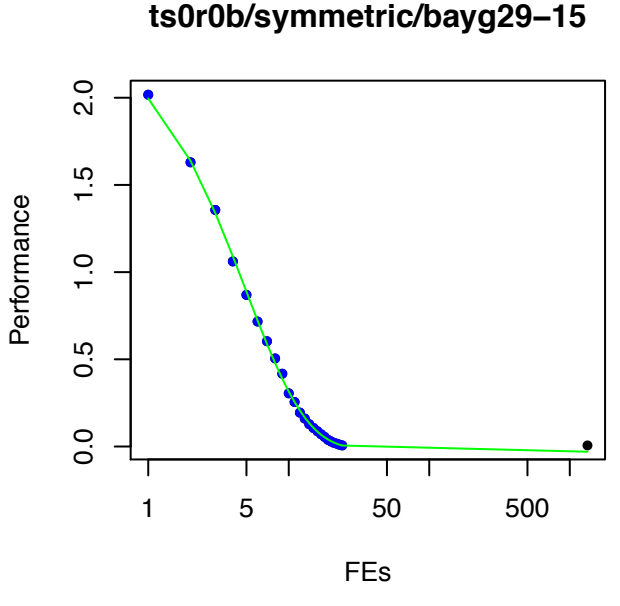
5
10
20
FEs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Performance
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1.5
2.0
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5
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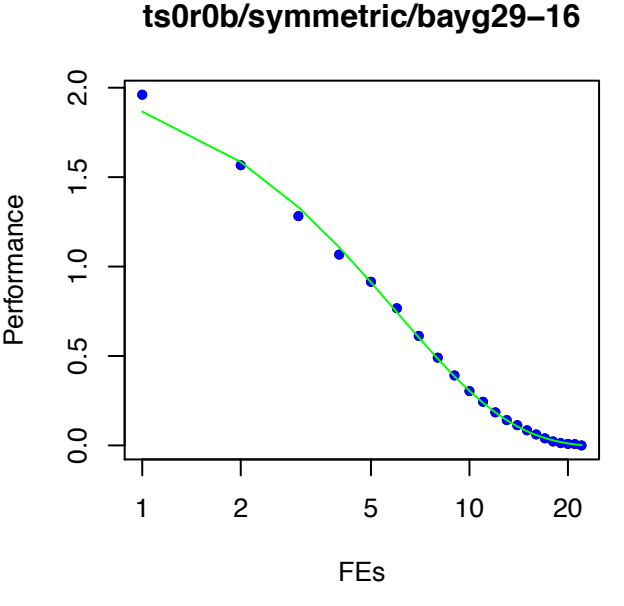
500
FEs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Performance
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2.0
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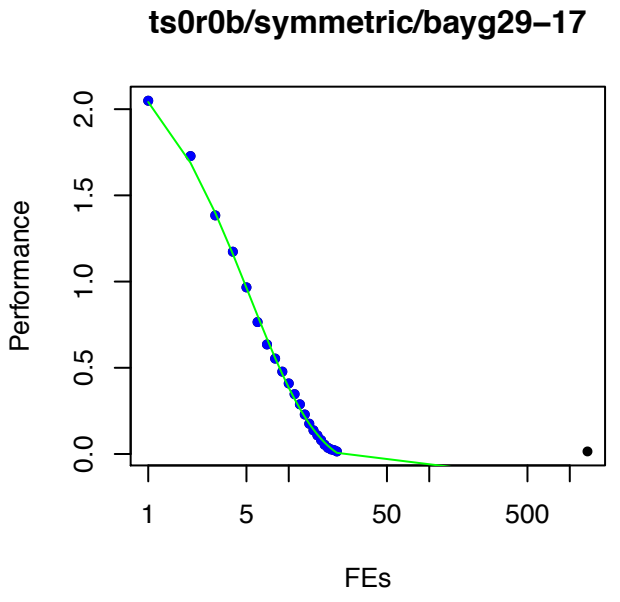
2
5
10
20
FEs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Performance
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2.0
1
5
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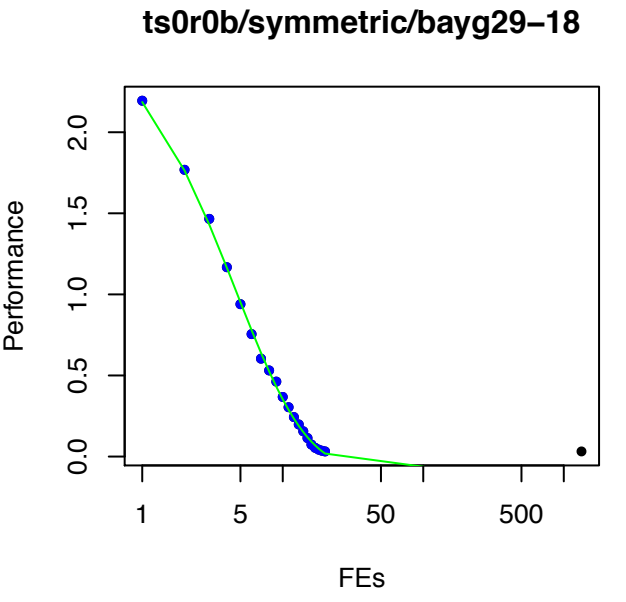
500
FEs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Performance
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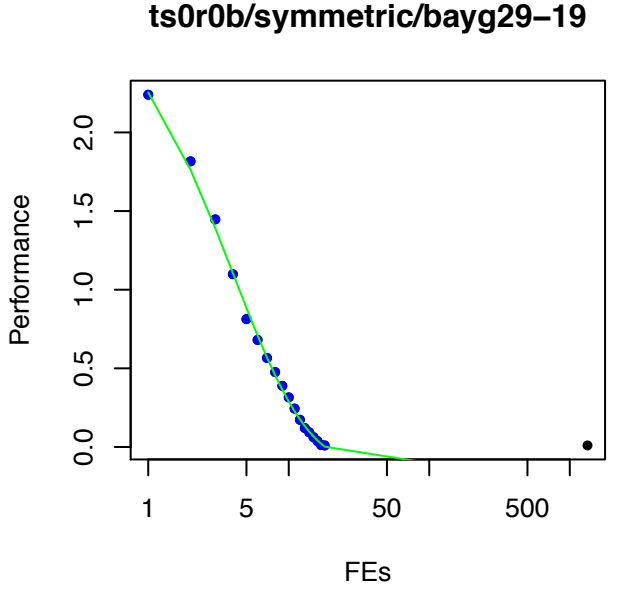
1.5
2.0
1
5
50
500
FEs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Performance
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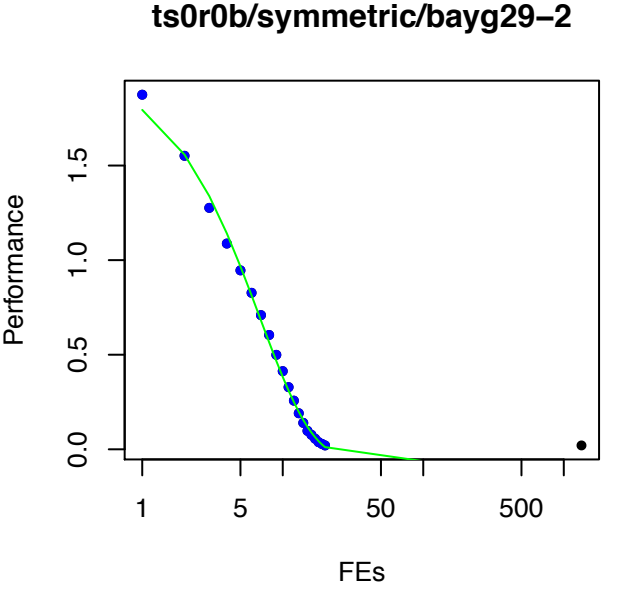
1.5
2.0
1
5
50
500
FEs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Performance
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1
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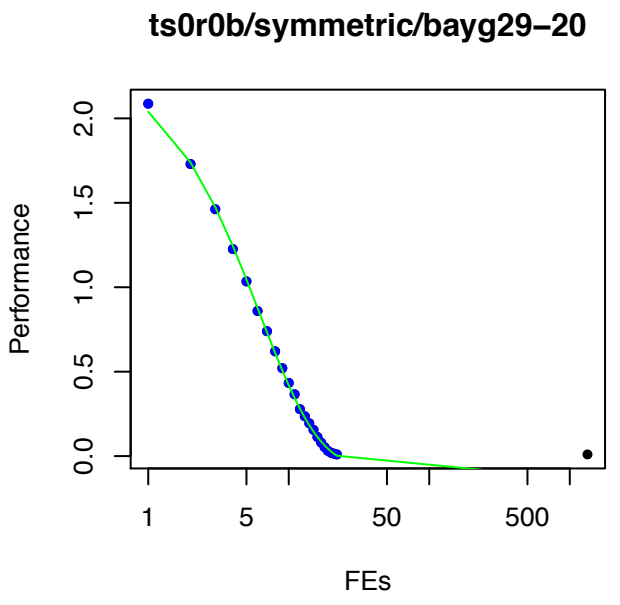
500
FEs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Performance
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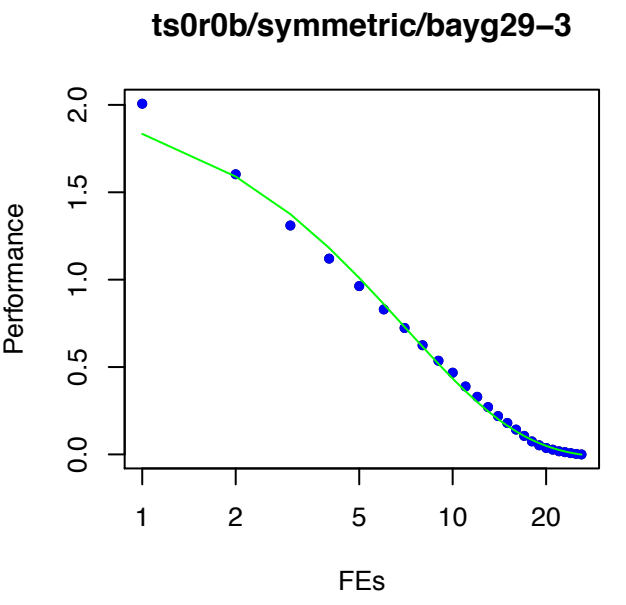
2.0
1
5
50
500
FEs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Performance
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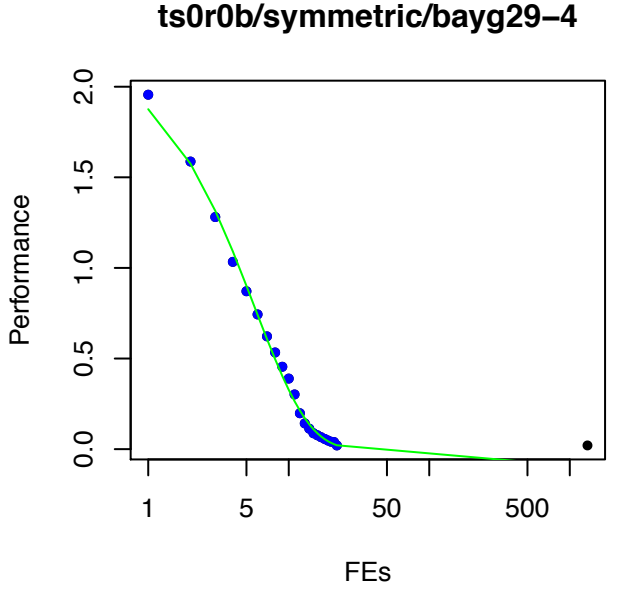
1.5
2.0
1
2
5
10
20
FEs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Performance
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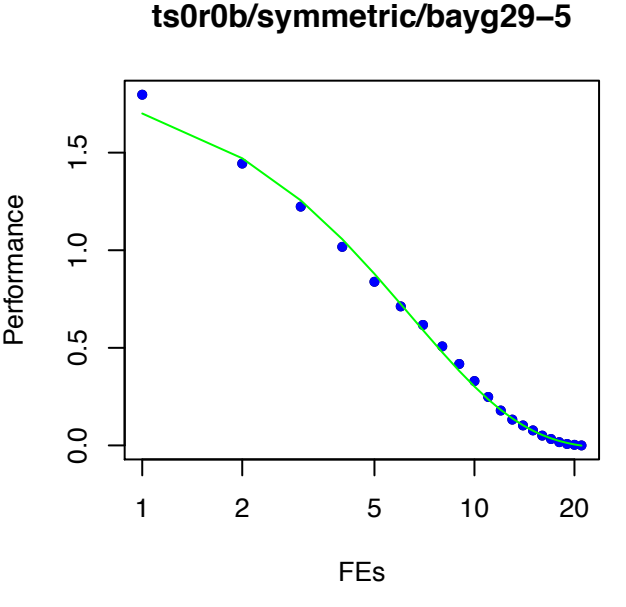
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0b/symmetric/bayg29−5
Performance
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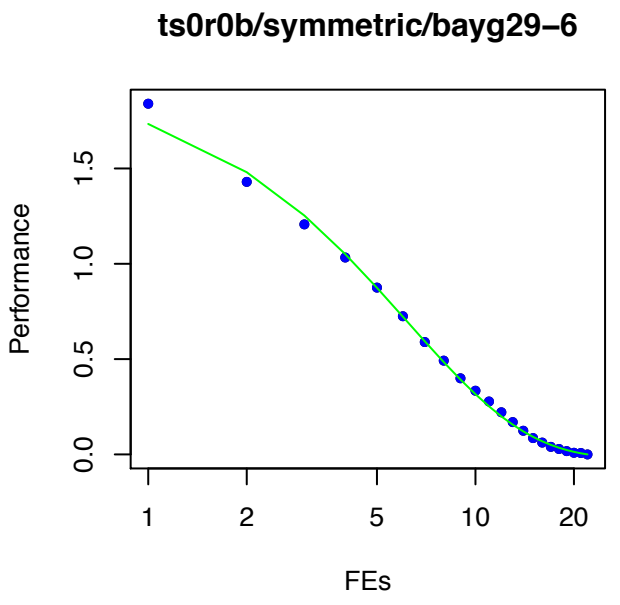
0.5
1.0
1.5
1
2
5
10
20
FEs


ts0r0b/symmetric/bayg29−6
Performance
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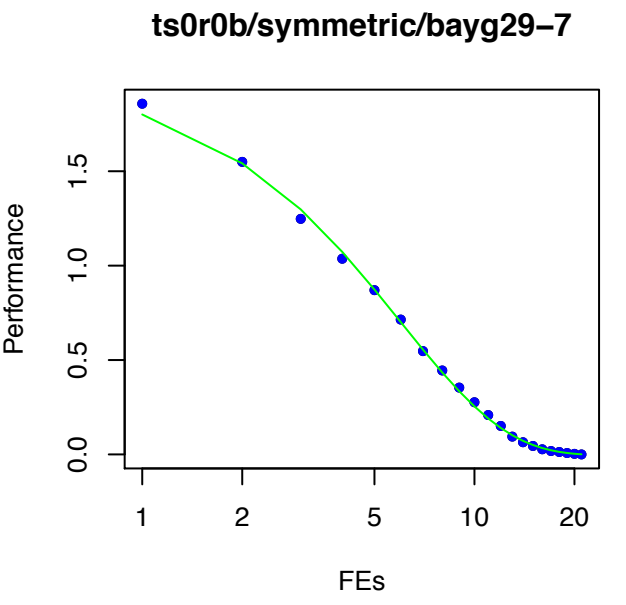
0.5
1.0
1.5
1
2
5
10
20
FEs


ts0r0b/symmetric/bayg29−7
Performance
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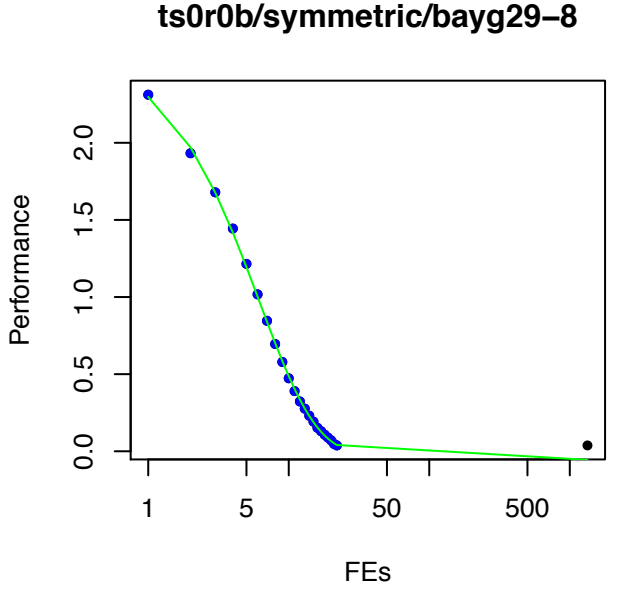
0.5
1.0
1.5
1
2
5
10
20
FEs


ts0r0b/symmetric/bayg29−8
Performance
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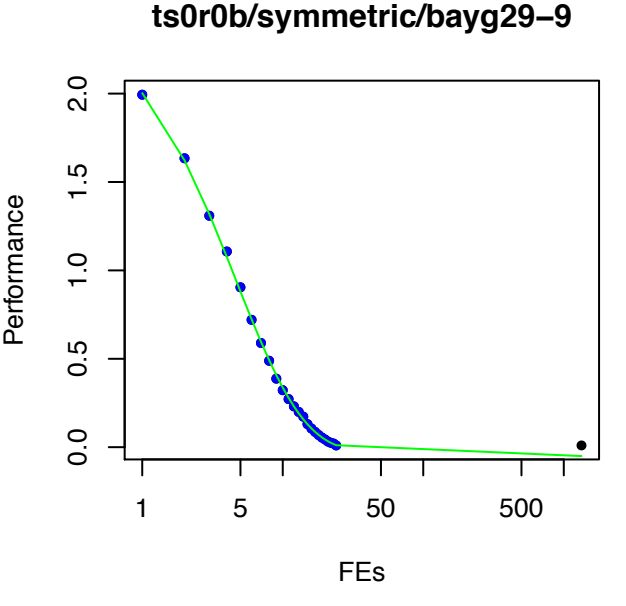
1.0
1.5
2.0
1
5
50
500
FEs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Performance
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2.0
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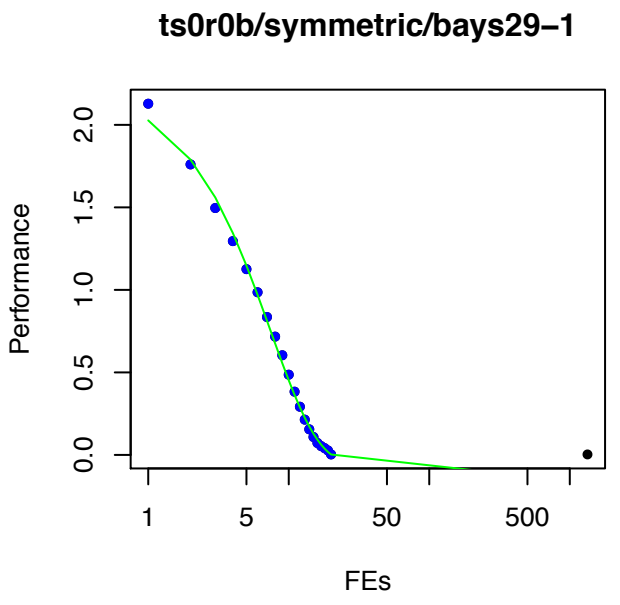
5
50
500
FEs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Performance
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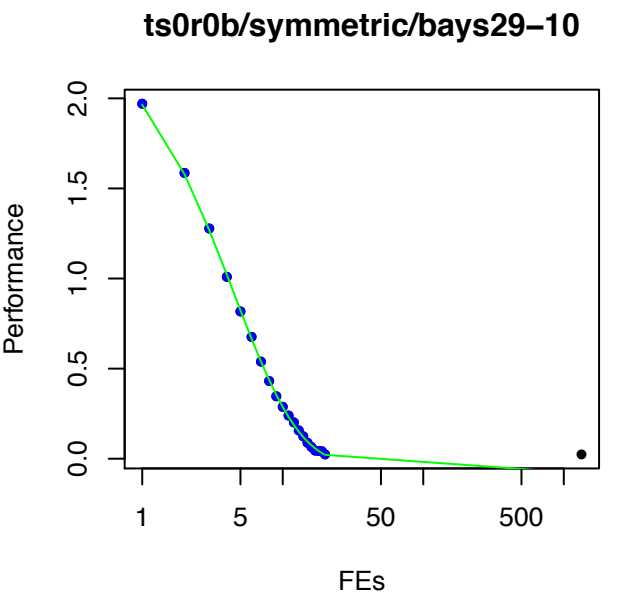
2.0
1
5
50
500
FEs


ts0r0b/symmetric/bays29−10
Performance
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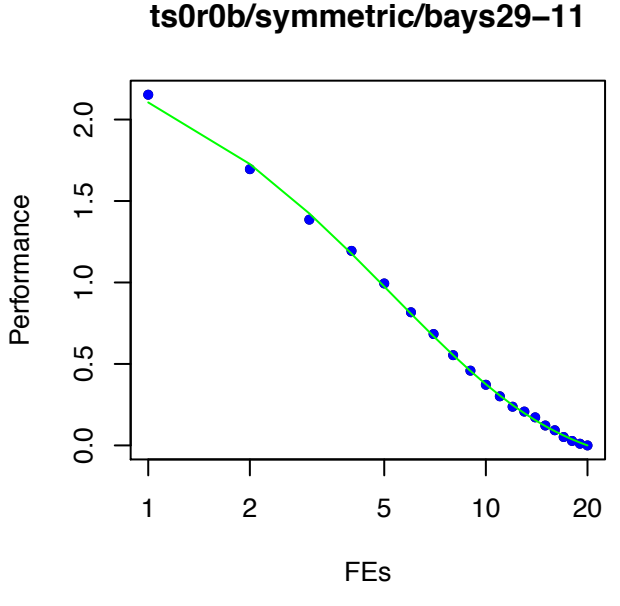
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0b/symmetric/bays29−11
Performance
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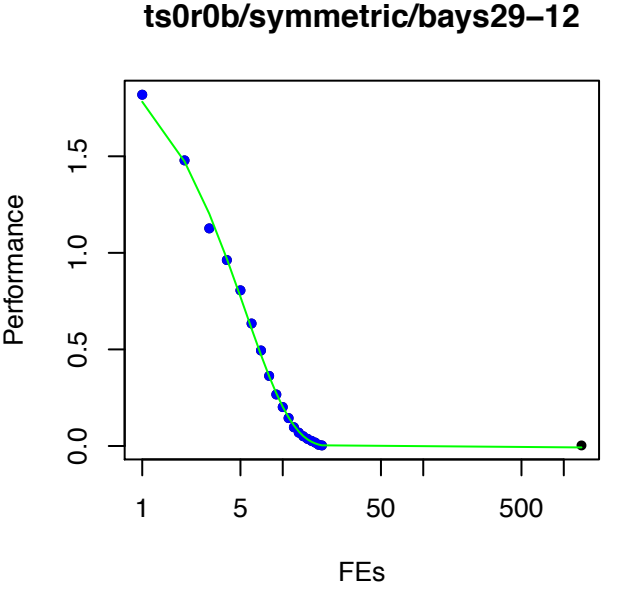
0.5
1.0
1.5
2.0
1
2
5
10
20
FEs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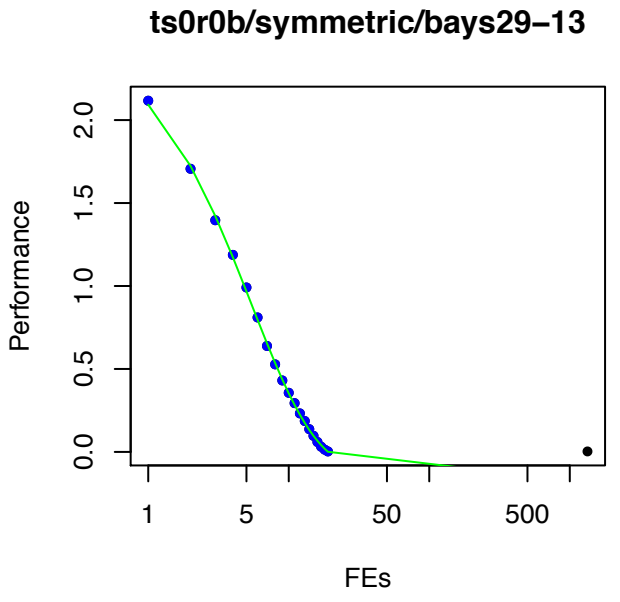
FEs


ts0r0b/symmetric/bays29−13
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1.5
2.0
1
5
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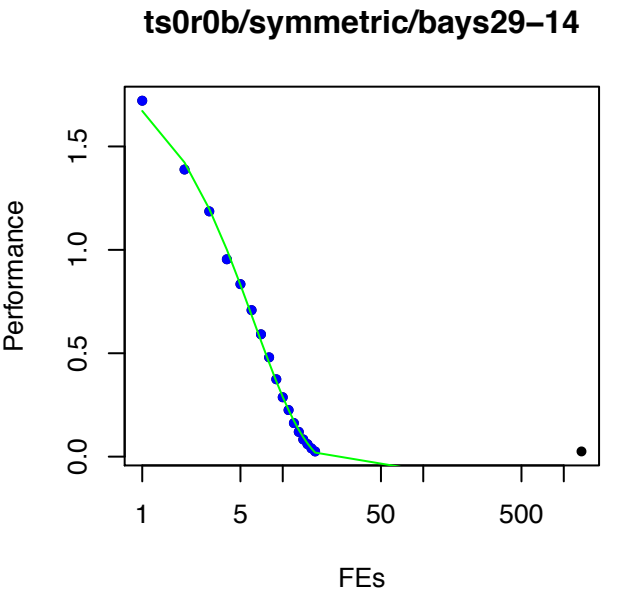
500
FEs


ts0r0b/symmetric/bays29−14
Performance
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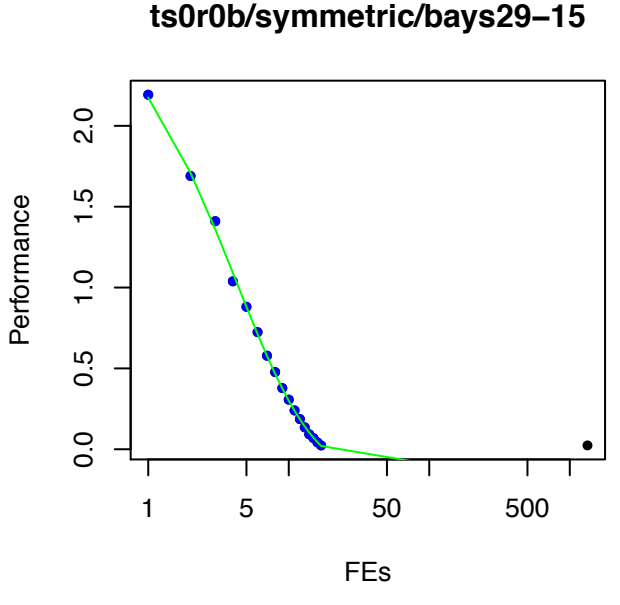
0.5
1.0
1.5
1
5
50
500
FEs


ts0r0b/symmetric/bays29−15
Performance
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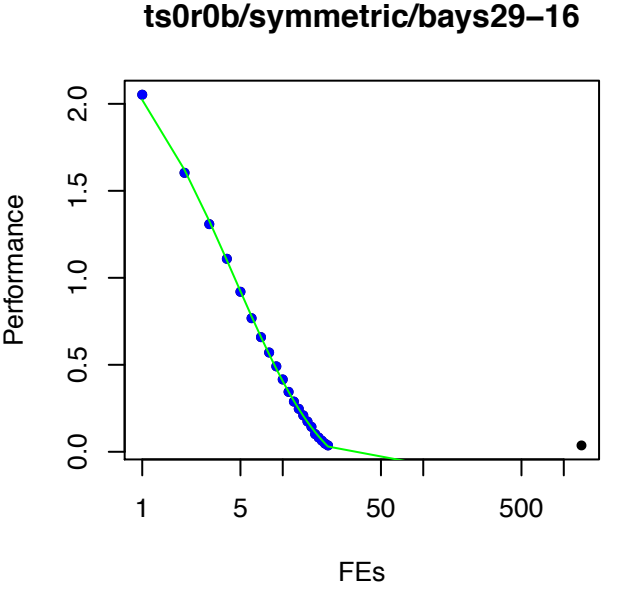
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0b/symmetric/bays29−16
Performance
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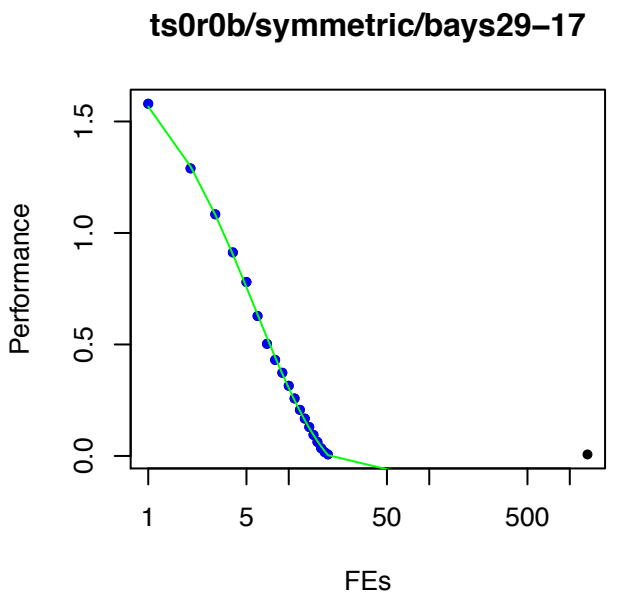
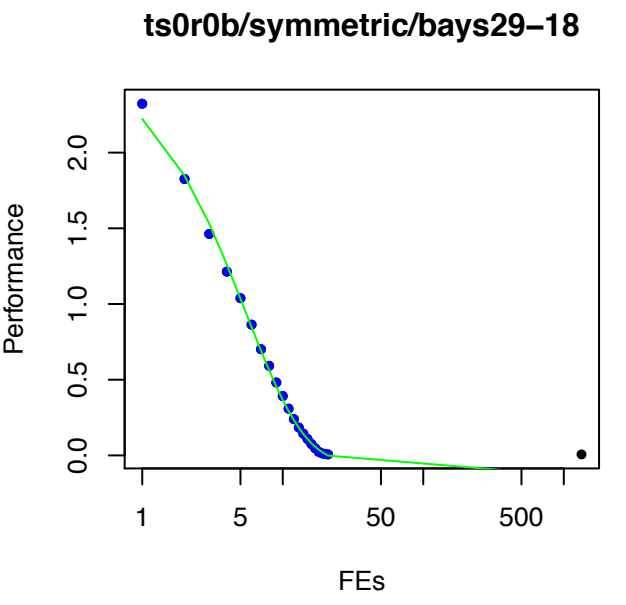
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0b/symmetric/bays29−17
Performance
0.0
0.5
1.0
1.5
1
5
50
500
FEs


ts0r0b/symmetric/bays29−18
Performance
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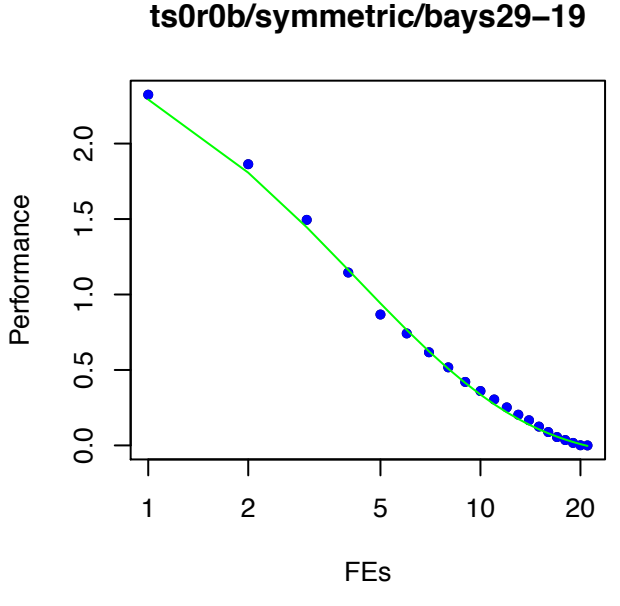
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0b/symmetric/bays29−19
Performance
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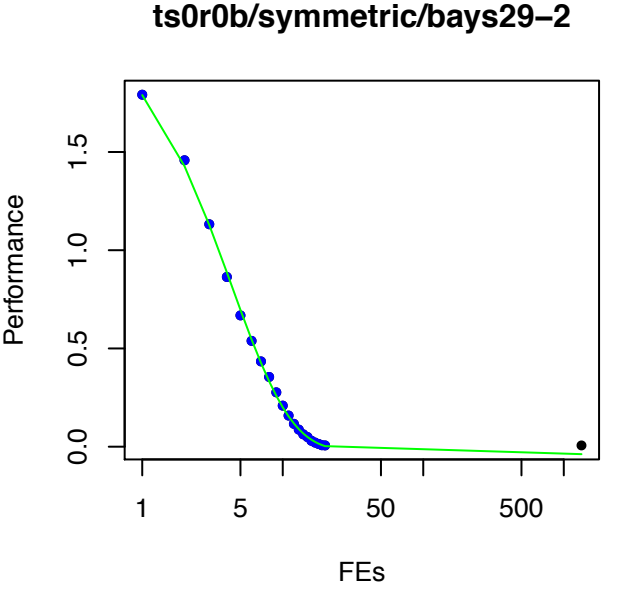
0.5
1.0
1.5
2.0
1
2
5
10
20
FEs


ts0r0b/symmetric/bays29−2
Performance
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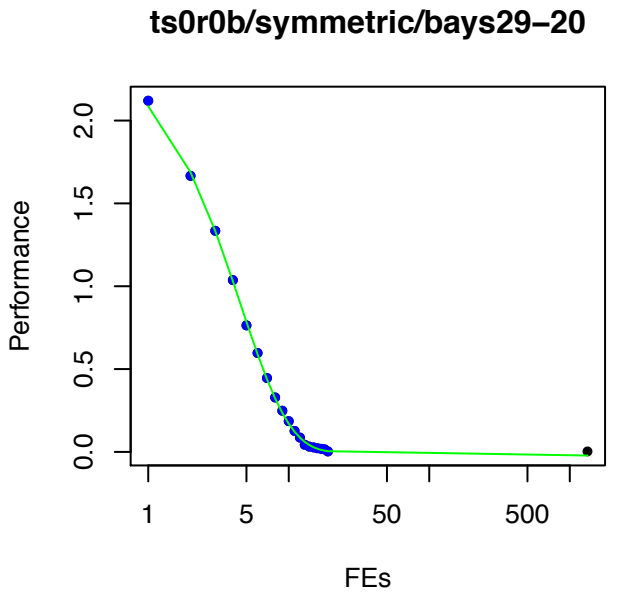
1.5
1
5
50
500
FEs


ts0r0b/symmetric/bays29−20
Performance
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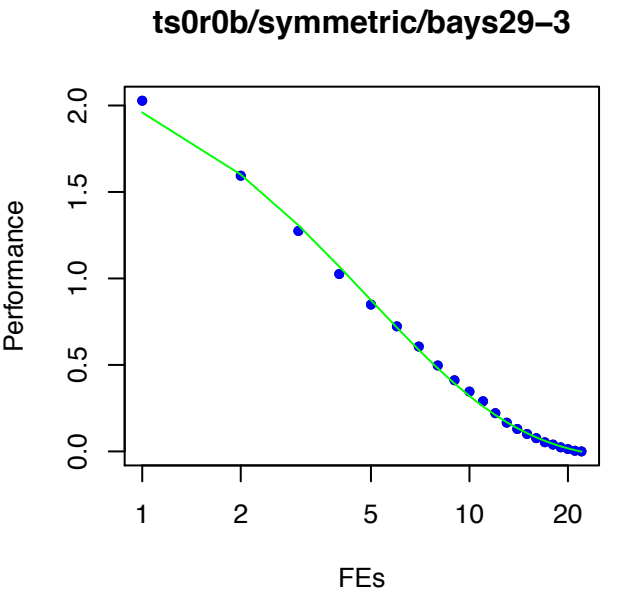
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0b/symmetric/bays29−3
Performance
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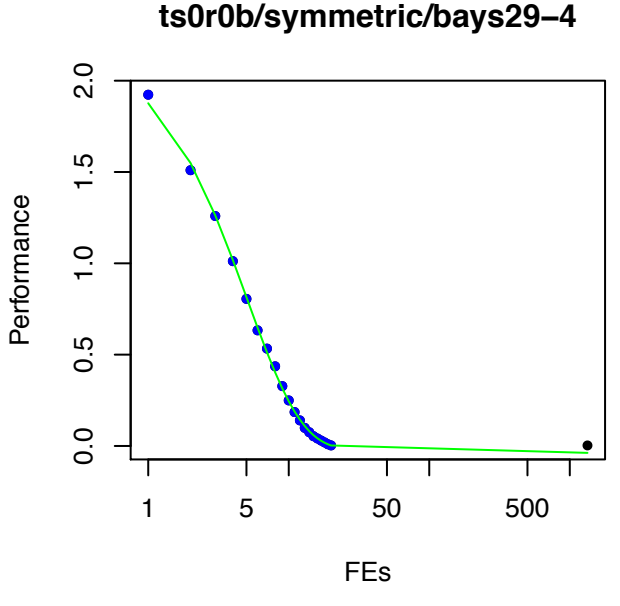
0.5
1.0
1.5
2.0
1
2
5
10
20
FEs


ts0r0b/symmetric/bays29−4
Performance
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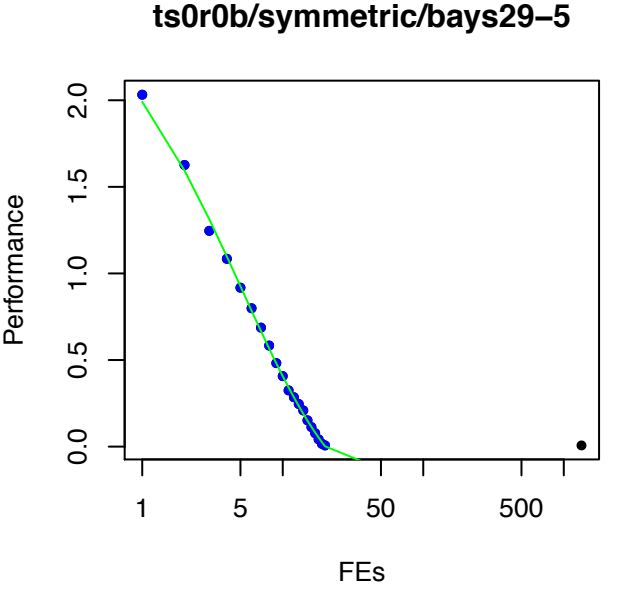
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0b/symmetric/bays29−5
Performance
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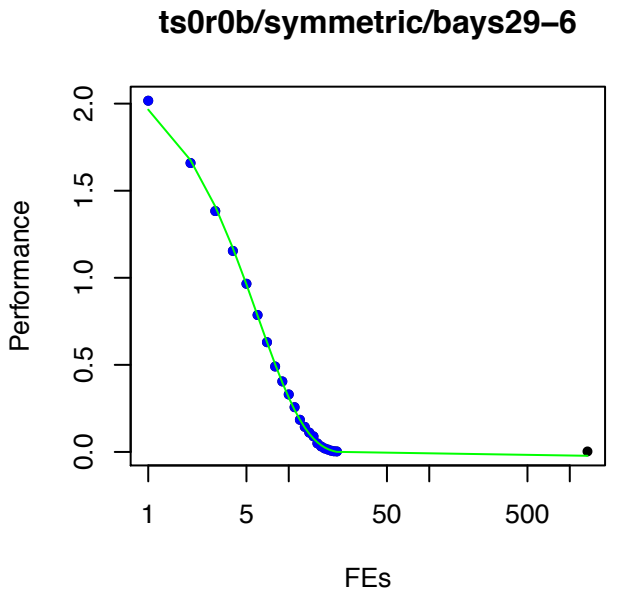
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0b/symmetric/bays29−6
Performance
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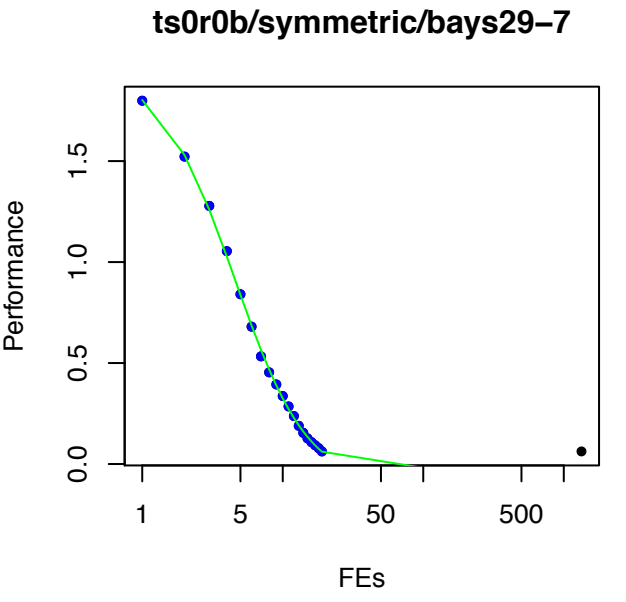
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0b/symmetric/bays29−7
Performance
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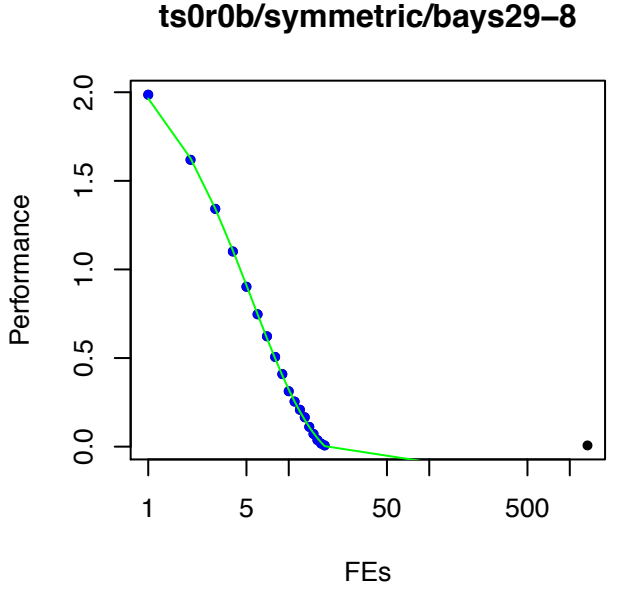
0.5
1.0
1.5
1
5
50
500
FEs


ts0r0b/symmetric/bays29−8
Performance
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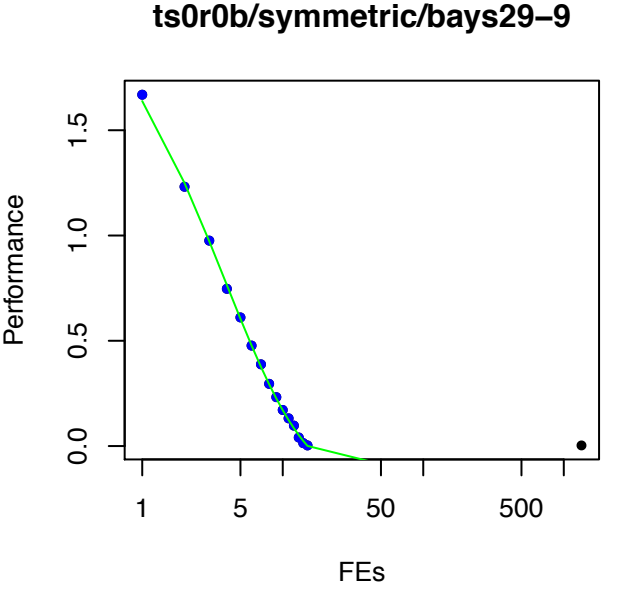
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0b/symmetric/bays29−9
Performance
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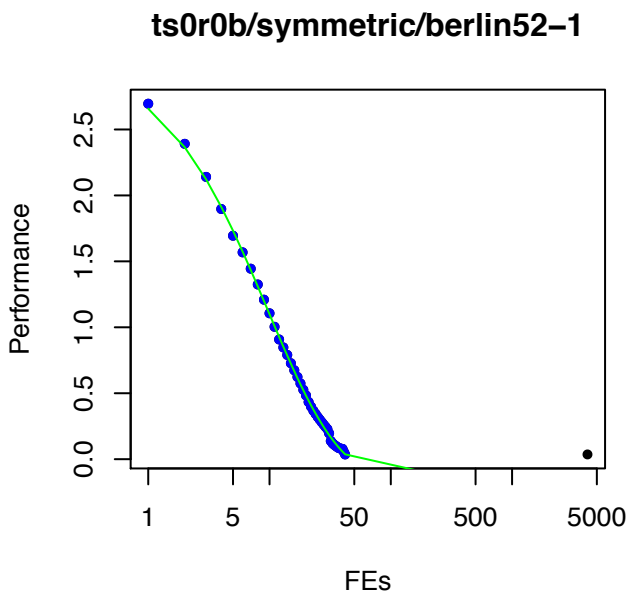
0.5
1.0
1.5
1
5
50
500
FEs


ts0r0b/symmetric/berlin52−1
Performance
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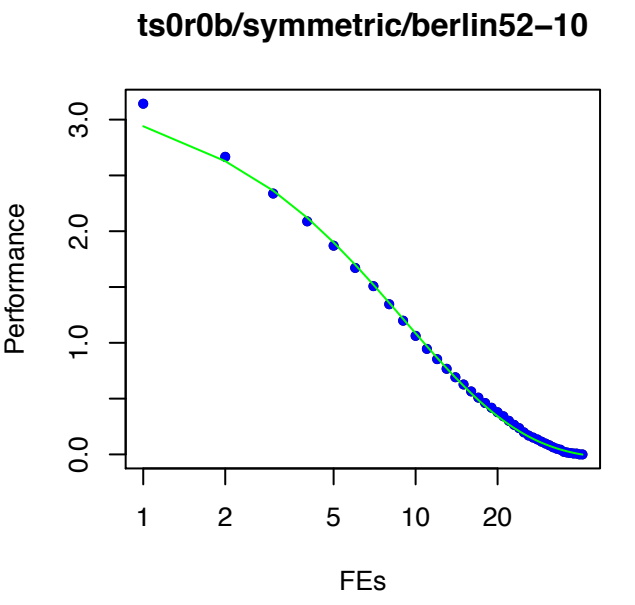
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0b/symmetric/berlin52−10
Performance
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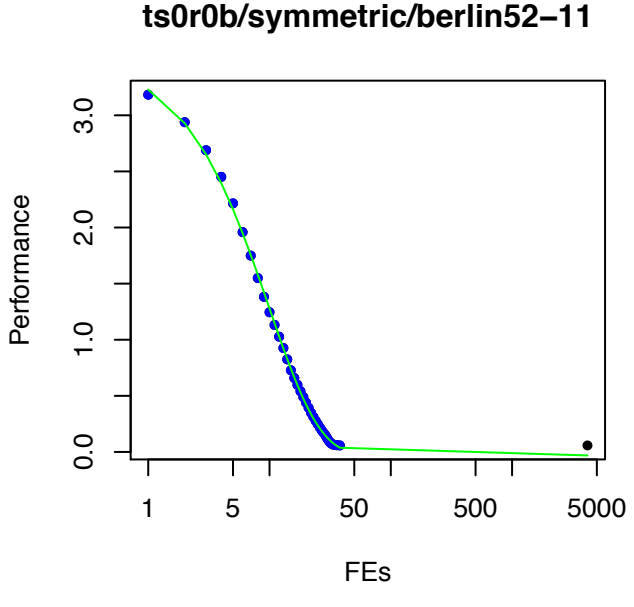
1.0
2.0
3.0
1
2
5
10
20
FEs


ts0r0b/symmetric/berlin52−11
Performance
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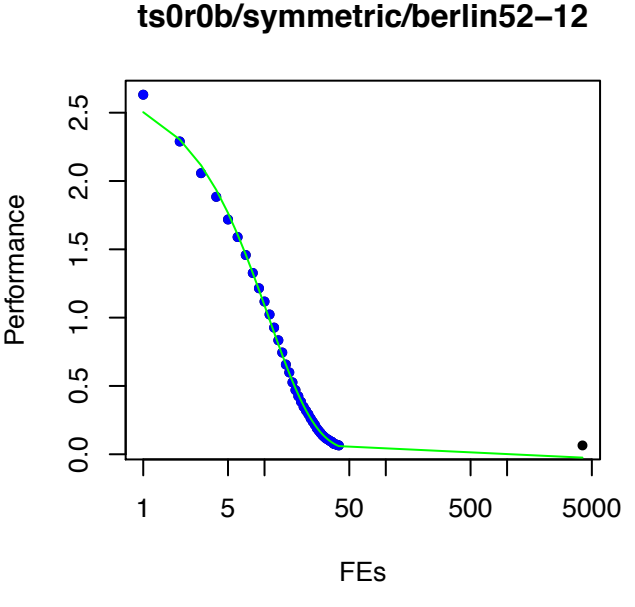
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts0r0b/symmetric/berlin52−12
Performance
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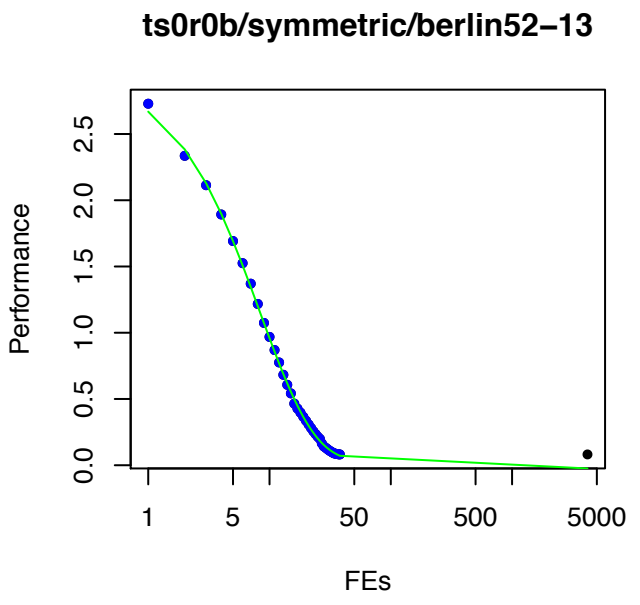
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0b/symmetric/berlin52−13
Performance
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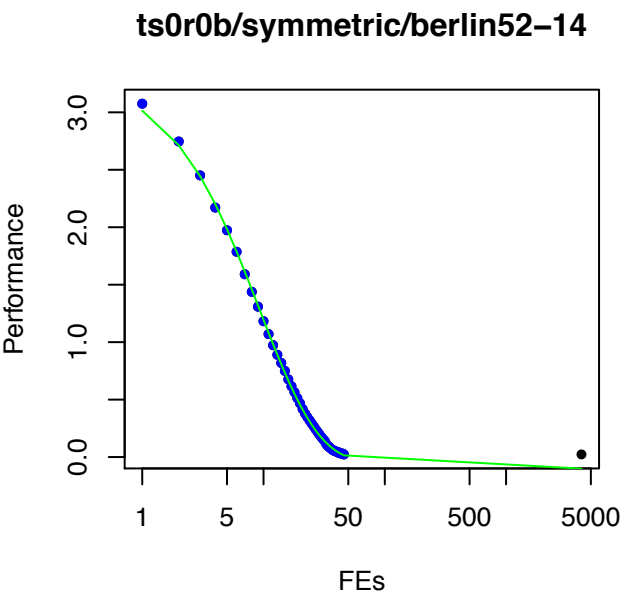
0.5
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0b/symmetric/berlin52−14
Performance
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2.0
3.0
1
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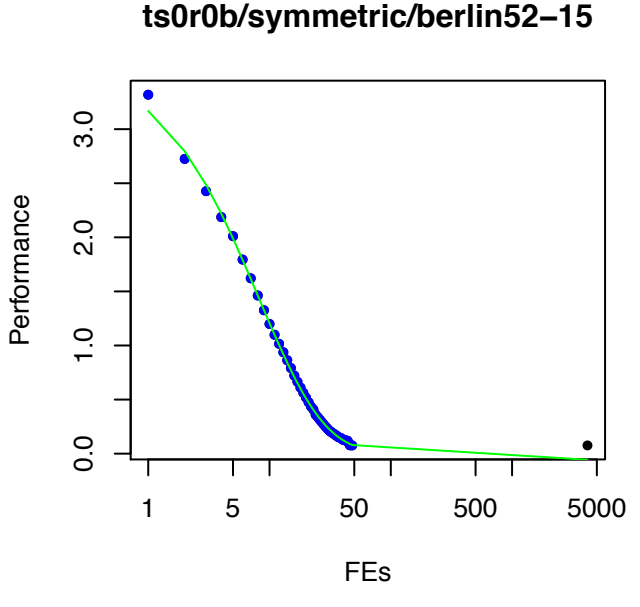
50
500
5000
FEs


ts0r0b/symmetric/berlin52−15
Performance
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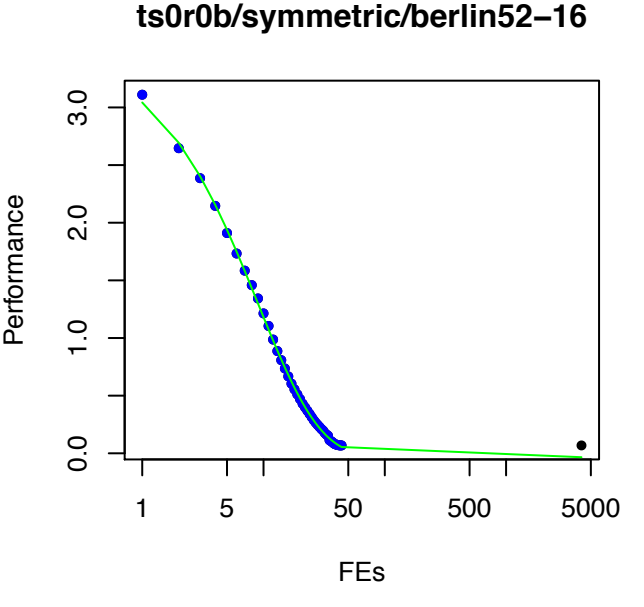
3.0
1
5
50
500
5000
FEs


ts0r0b/symmetric/berlin52−16
Performance
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3.0
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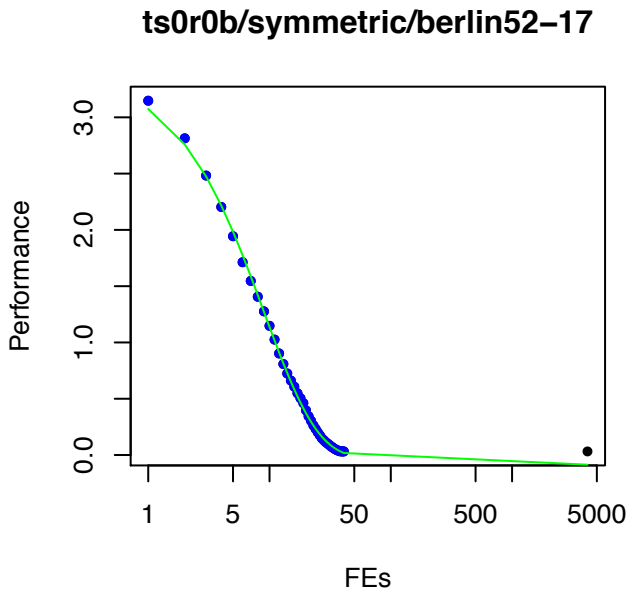
50
500
5000
FEs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Performance
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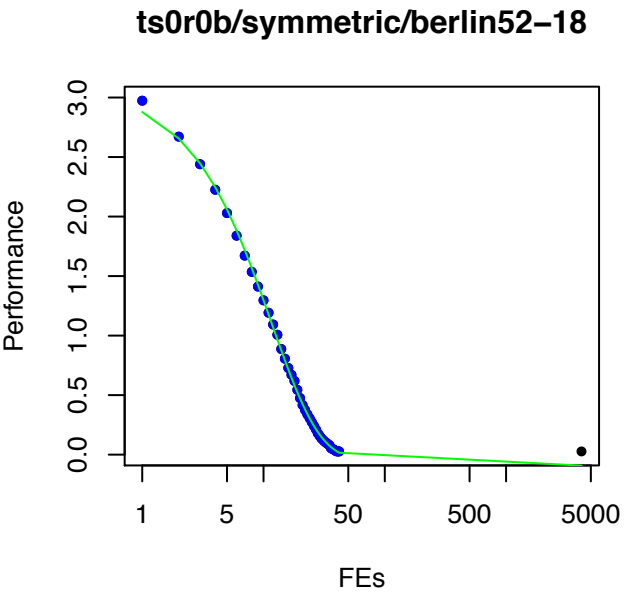
3.0
1
5
50
500
5000
FEs


ts0r0b/symmetric/berlin52−18
Performance
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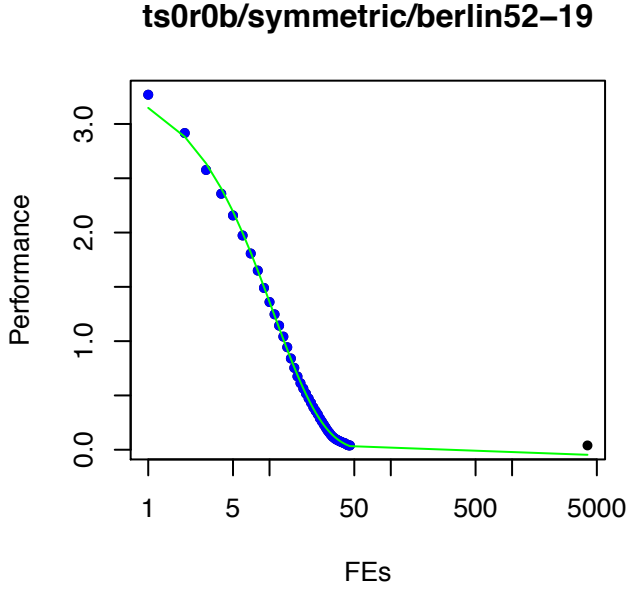
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts0r0b/symmetric/berlin52−19
Performance
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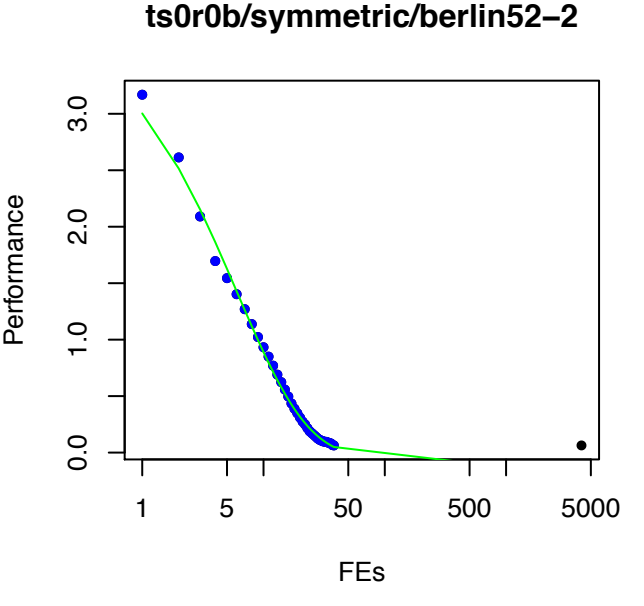
2.0
3.0
1
5
50
500
5000
FEs


ts0r0b/symmetric/berlin52−2
Performance
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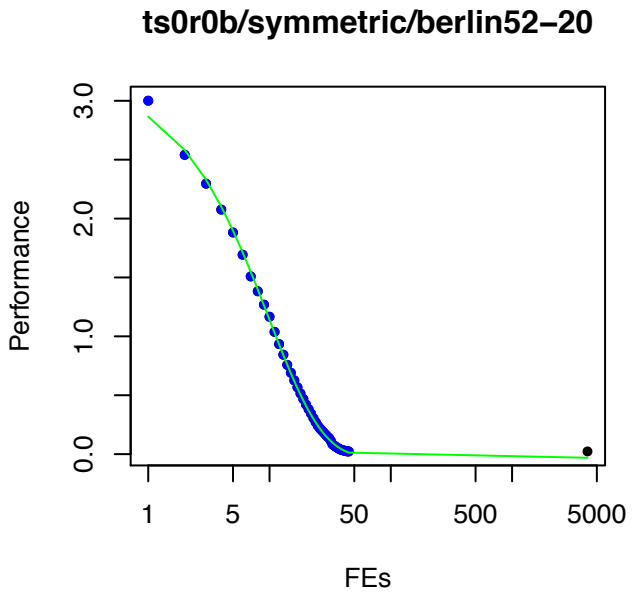
3.0
1
5
50
500
5000
FEs


ts0r0b/symmetric/berlin52−20
Performance
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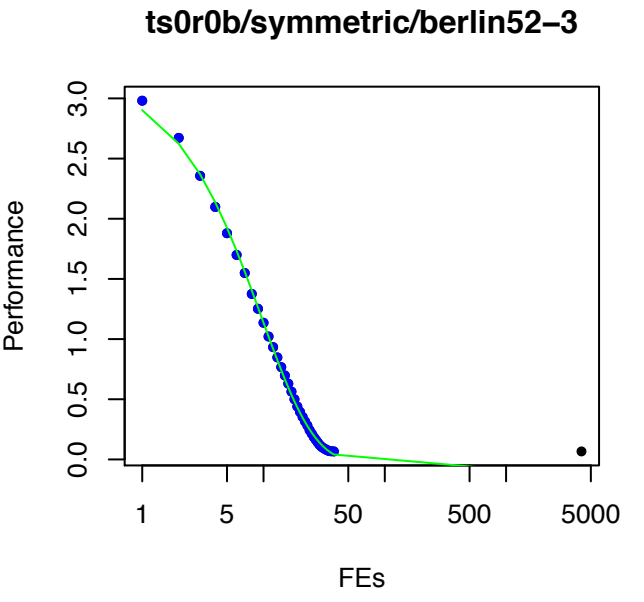
2.0
3.0
1
5
50
500
5000
FEs


ts0r0b/symmetric/berlin52−3
Performance
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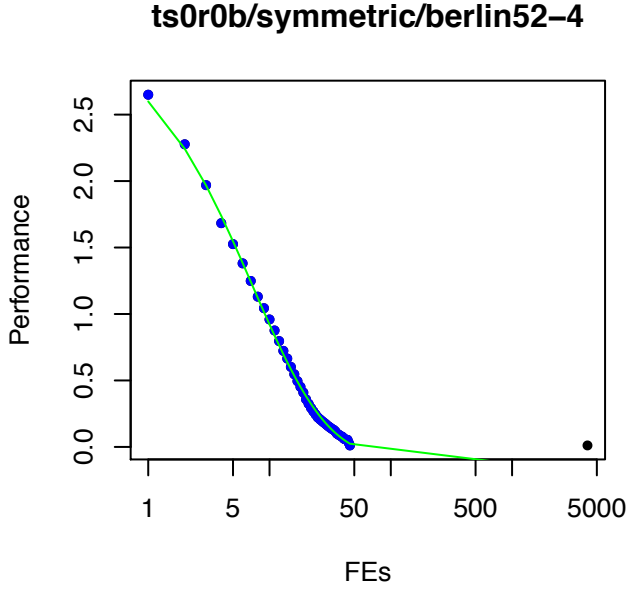
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts0r0b/symmetric/berlin52−4
Performance
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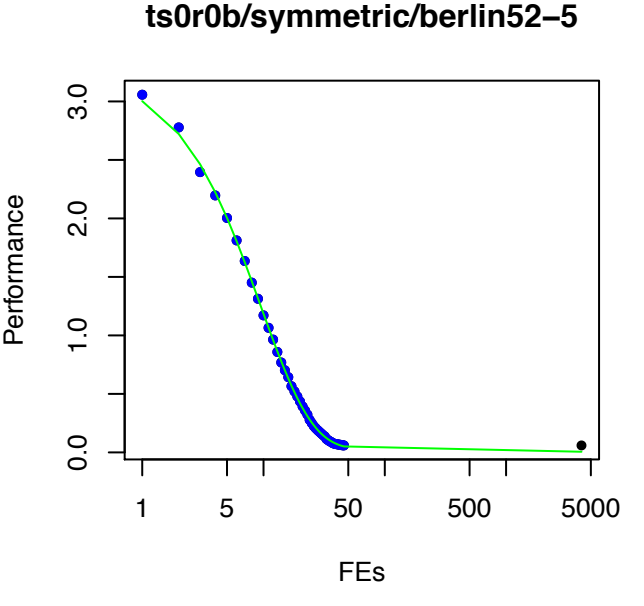
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0b/symmetric/berlin52−5
Performance
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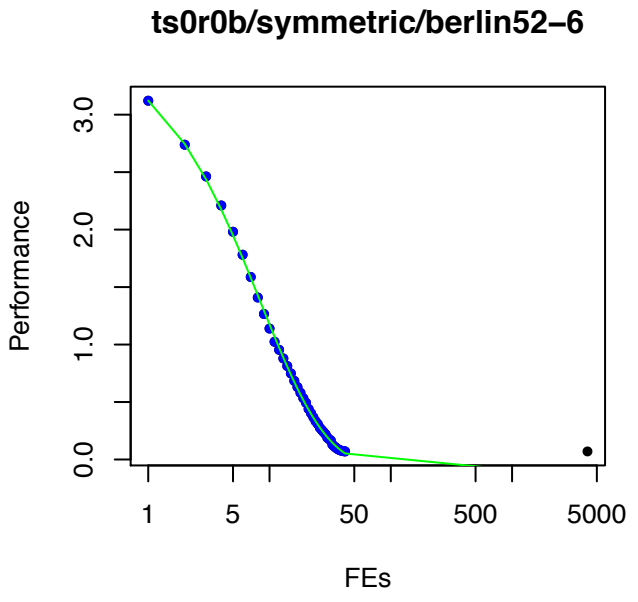
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts0r0b/symmetric/berlin52−6
Performance
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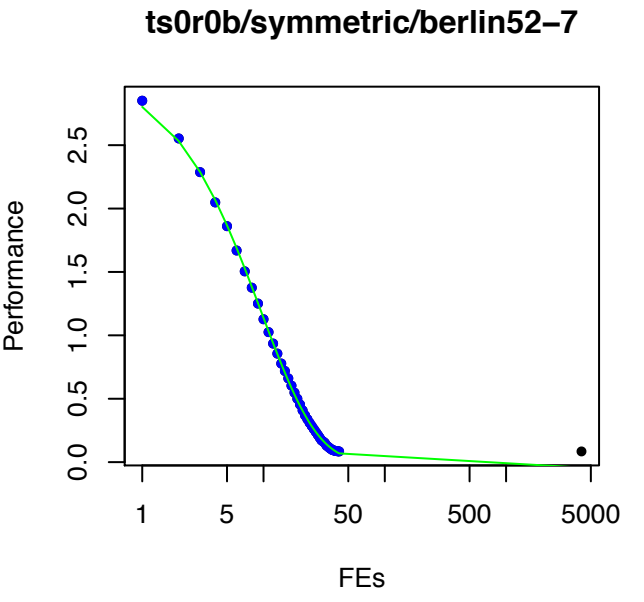
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts0r0b/symmetric/berlin52−7
Performance
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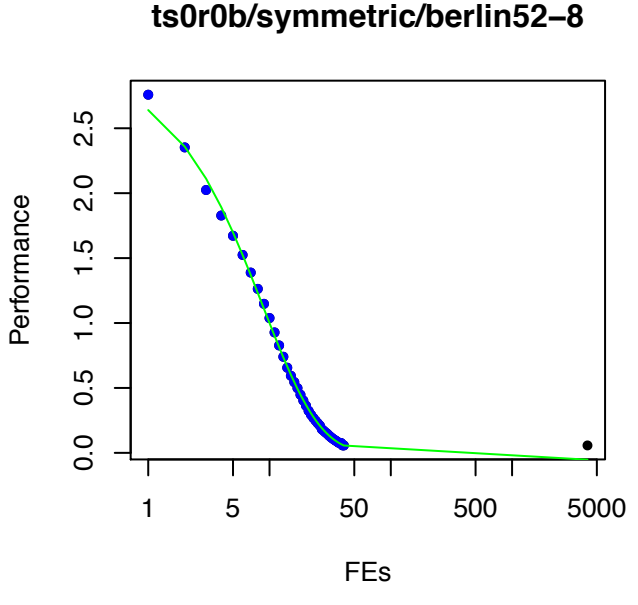
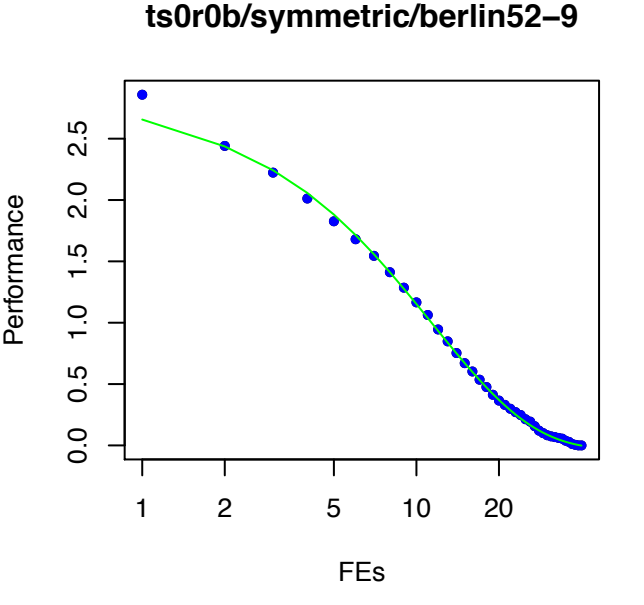
0.5
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0b/symmetric/berlin52−8
Performance
0.0
0.5
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0b/symmetric/berlin52−9
Performance
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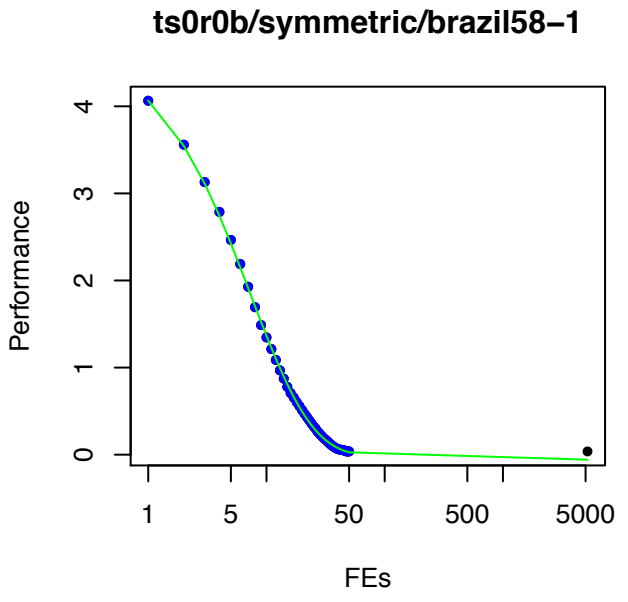
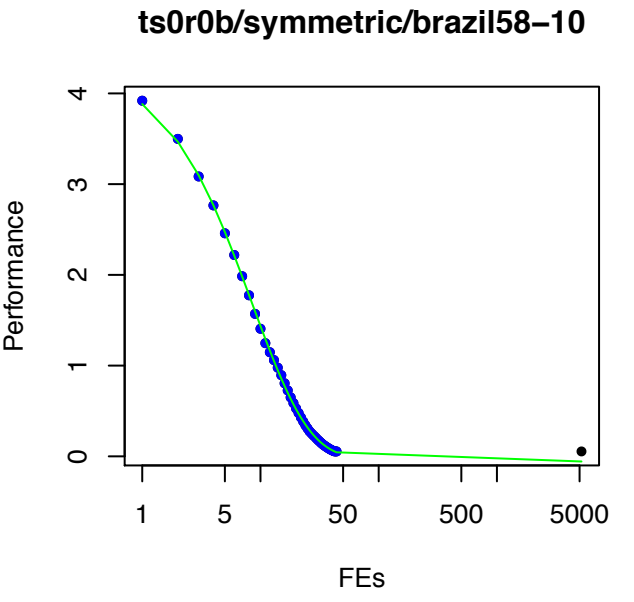
0.5
1.0
1.5
2.0
2.5
1
2
5
10
20
FEs


ts0r0b/symmetric/brazil58−1
Performance
FEs
0
1
2
3
4
1
5
50
500
5000


ts0r0b/symmetric/brazil58−10
Performance
FEs
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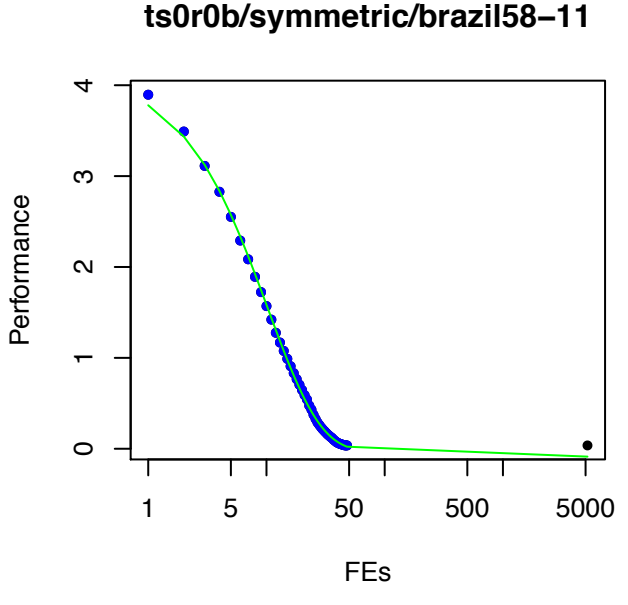
1
2
3
4
1
5
50
500
5000


ts0r0b/symmetric/brazil58−11
Performance
FEs
0
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2
3
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5
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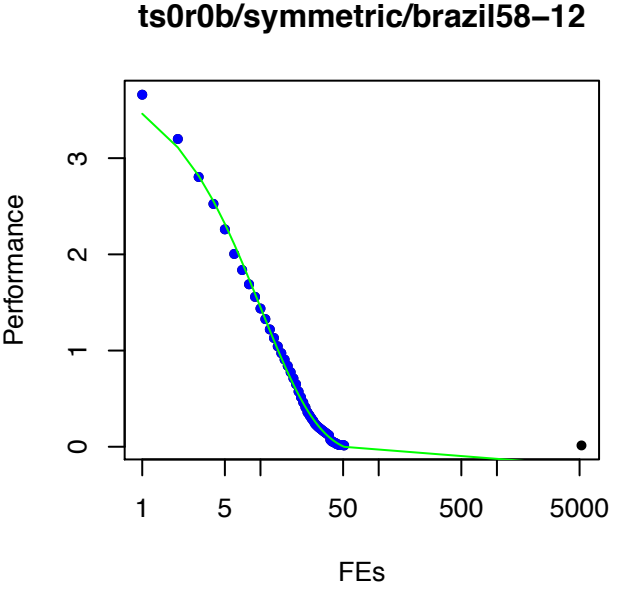
500
5000


ts0r0b/symmetric/brazil58−12
Performance
FEs
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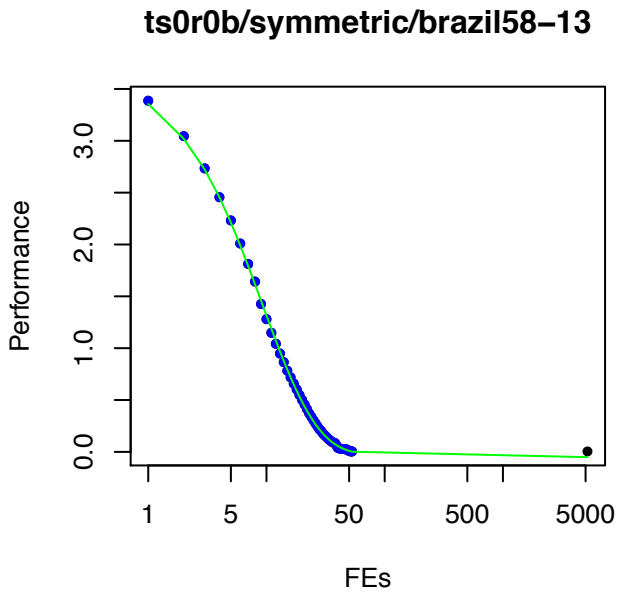
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Performance
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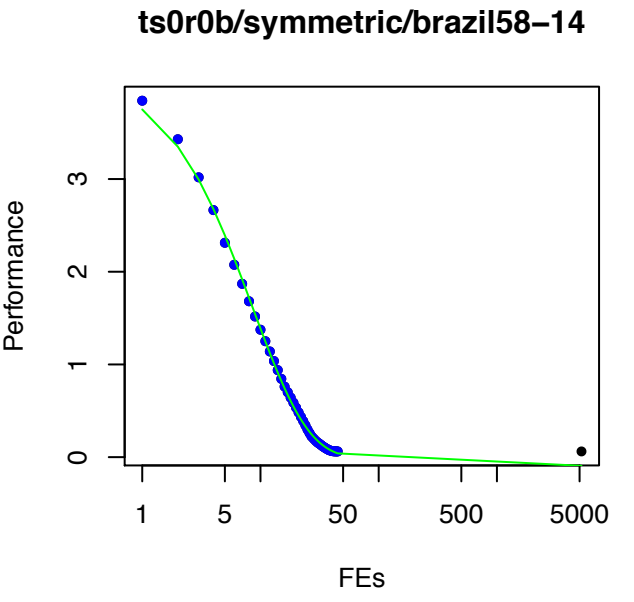
5000
FEs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Performance
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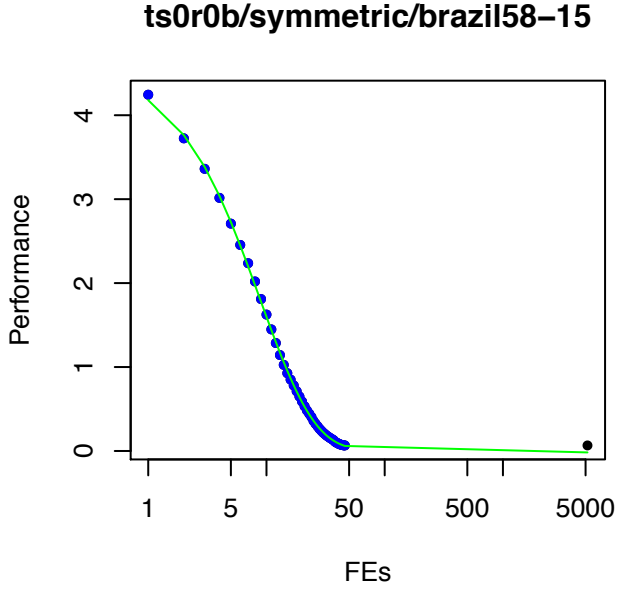
5000
FEs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Performance
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3
4
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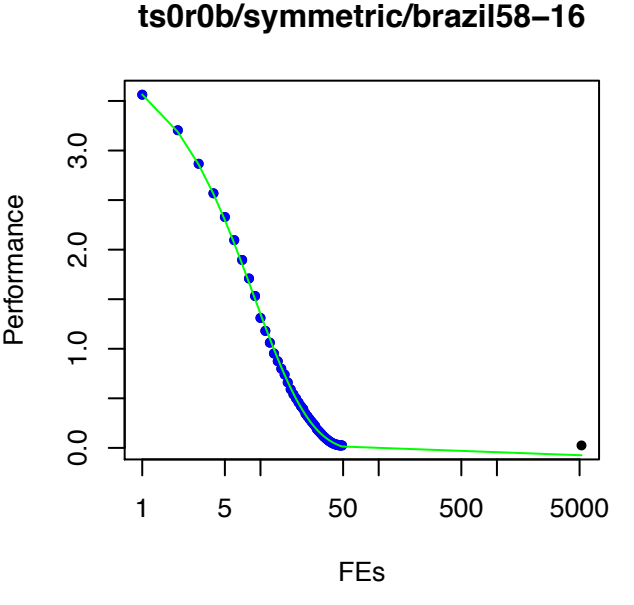
5000
FEs


ts0r0b/symmetric/brazil58−16
Performance
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3.0
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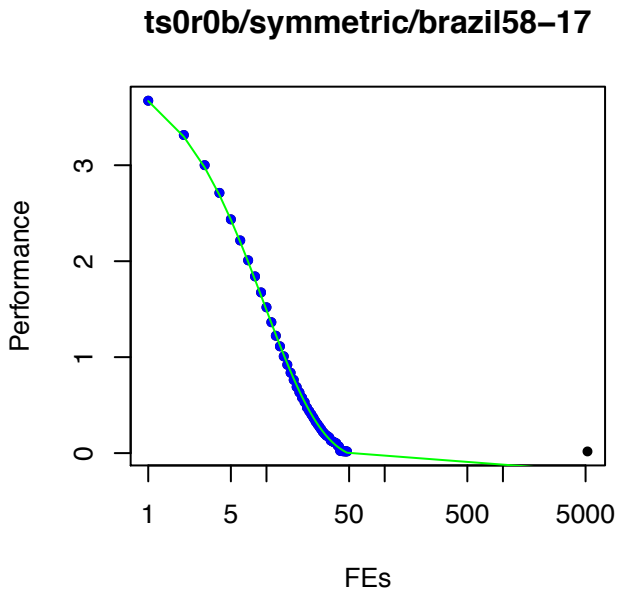
50
500
5000
FEs


ts0r0b/symmetric/brazil58−17
Performance
0
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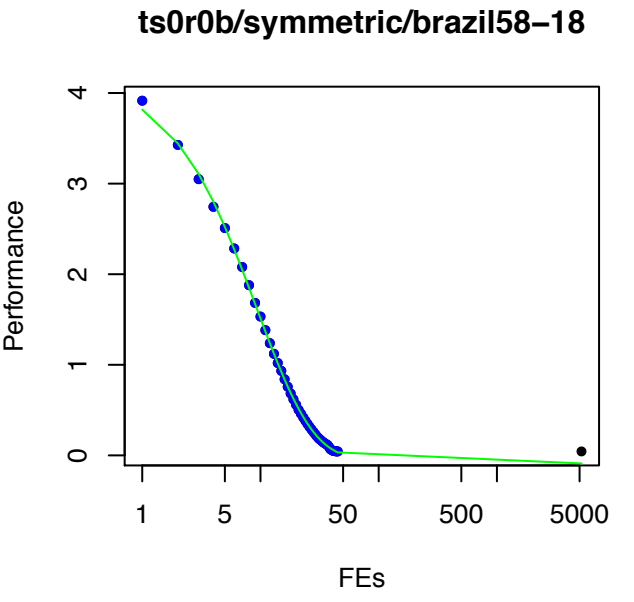
2
3
1
5
50
500
5000
FEs


ts0r0b/symmetric/brazil58−18
Performance
0
1
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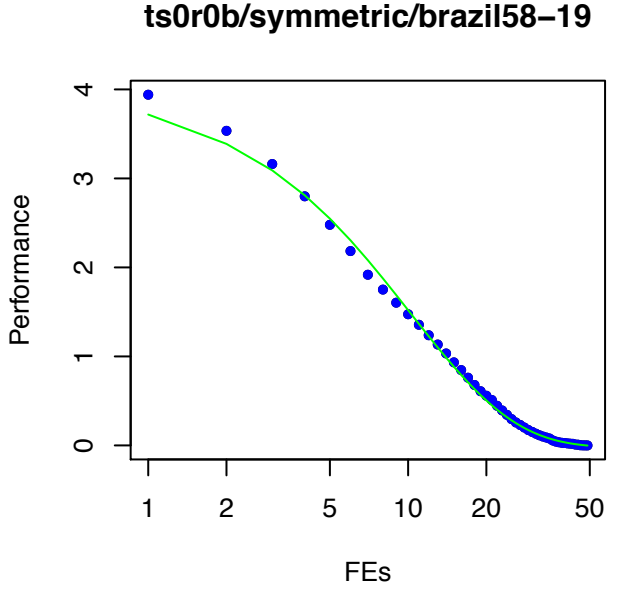
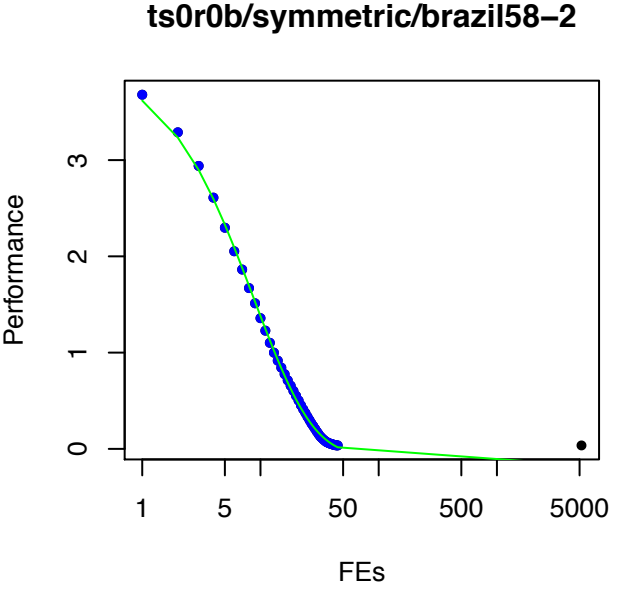
3
4
1
5
50
500
5000
FEs


ts0r0b/symmetric/brazil58−19
Performance
0
1
2
3
4
1
2
5
10
20
50
FEs


ts0r0b/symmetric/brazil58−2
Performance
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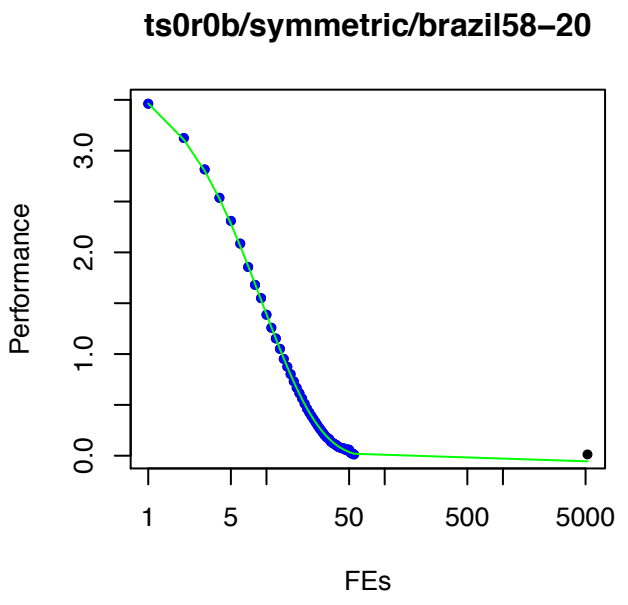
2
3
1
5
50
500
5000
FEs


ts0r0b/symmetric/brazil58−20
Performance
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1.0
2.0
3.0
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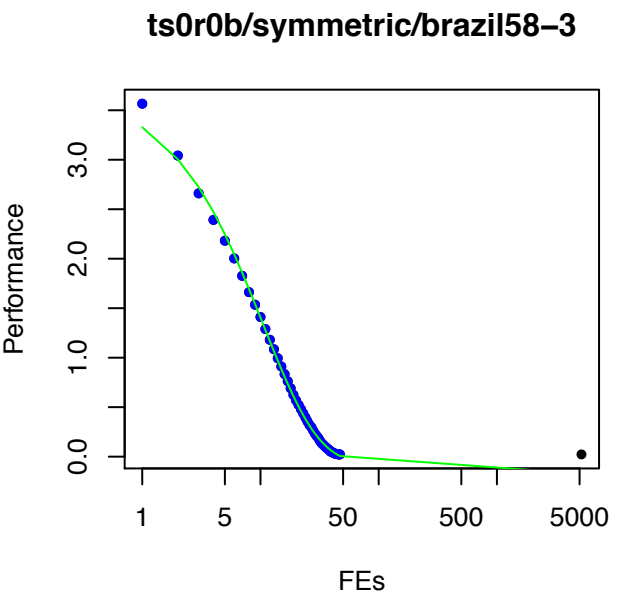
50
500
5000
FEs


ts0r0b/symmetric/brazil58−3
Performance
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1.0
2.0
3.0
1
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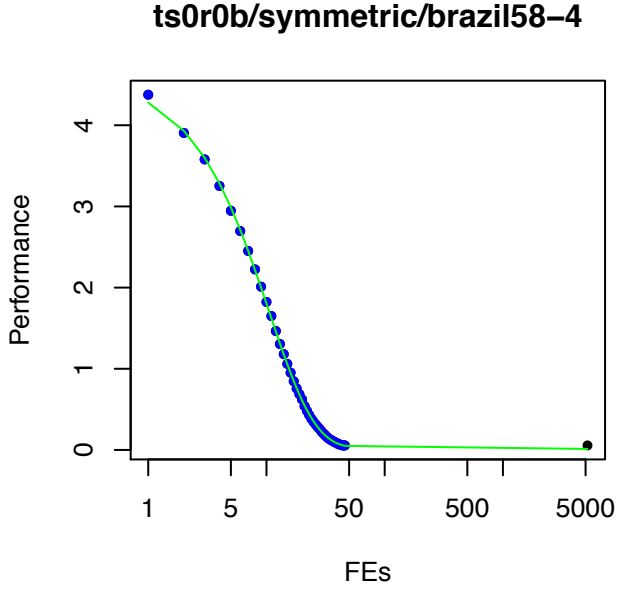
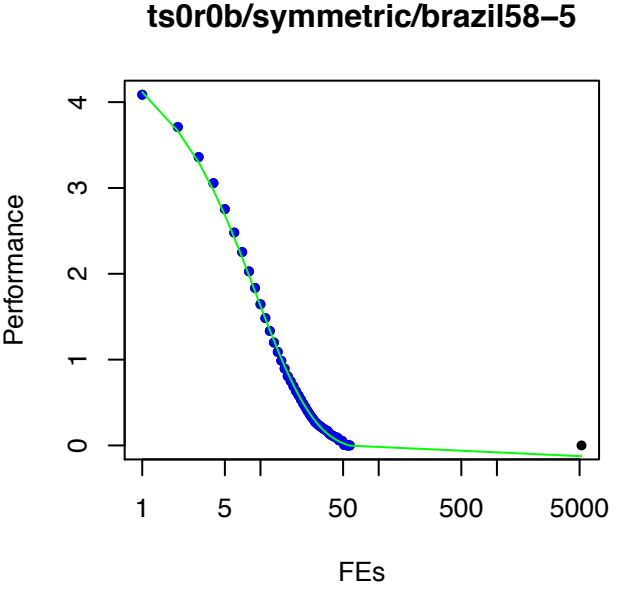
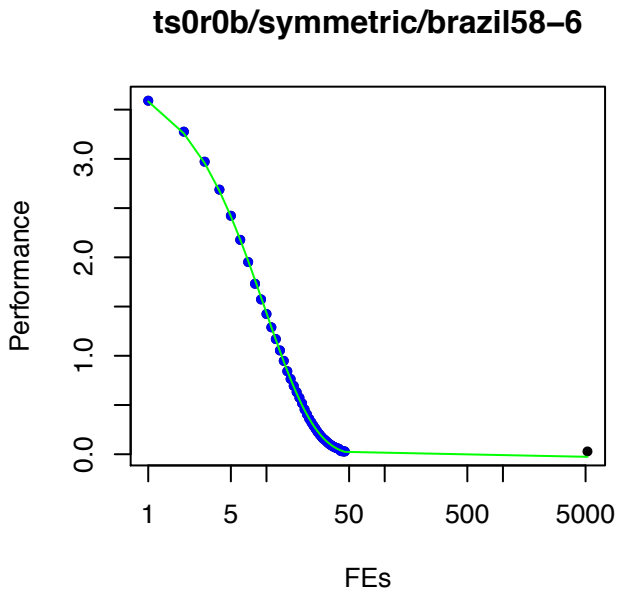
50
500
5000
FEs


ts0r0b/symmetric/brazil58−4
Performance
0
1
2
3
4
1
5
50
500
5000
FEs


ts0r0b/symmetric/brazil58−5
Performance
0
1
2
3
4
1
5
50
500
5000
FEs


ts0r0b/symmetric/brazil58−6
Performance
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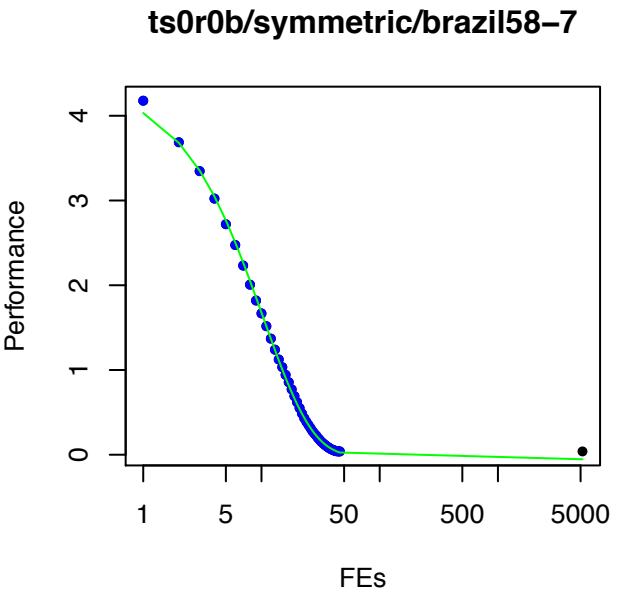
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts0r0b/symmetric/brazil58−7
Performance
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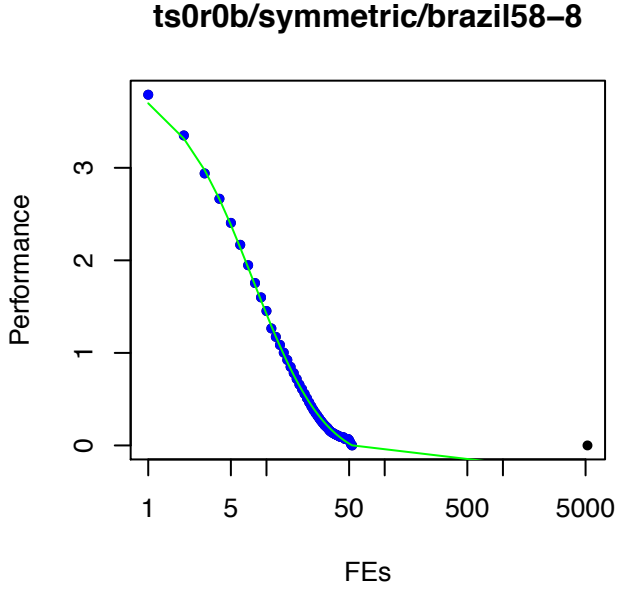
1
2
3
4
1
5
50
500
5000
FEs


ts0r0b/symmetric/brazil58−8
Performance
0
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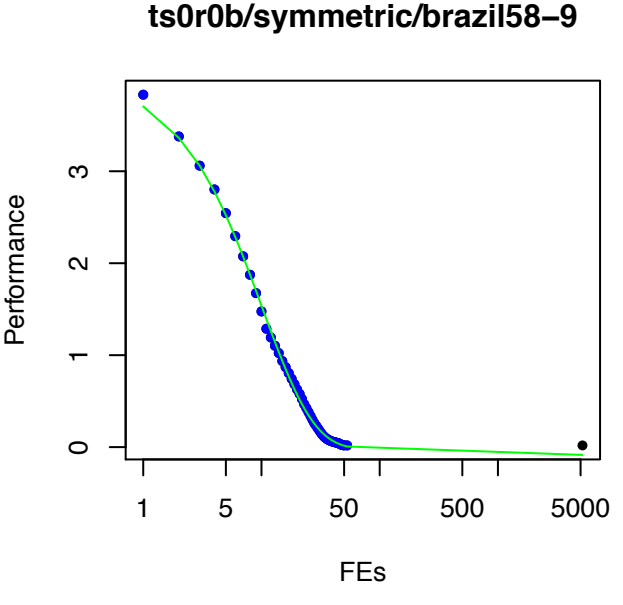
2
3
1
5
50
500
5000
FEs


ts0r0b/symmetric/brazil58−9
Performance
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2
3
1
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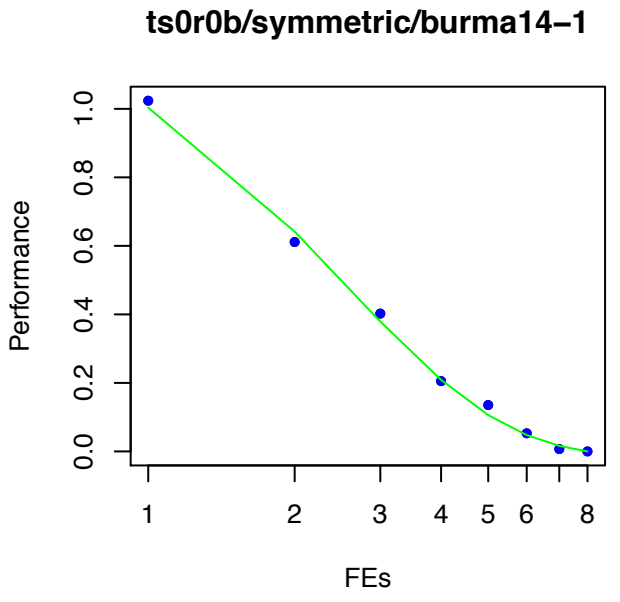
500
5000
FEs


ts0r0b/symmetric/burma14−1
Performance
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0.4
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1.0
1
2
3
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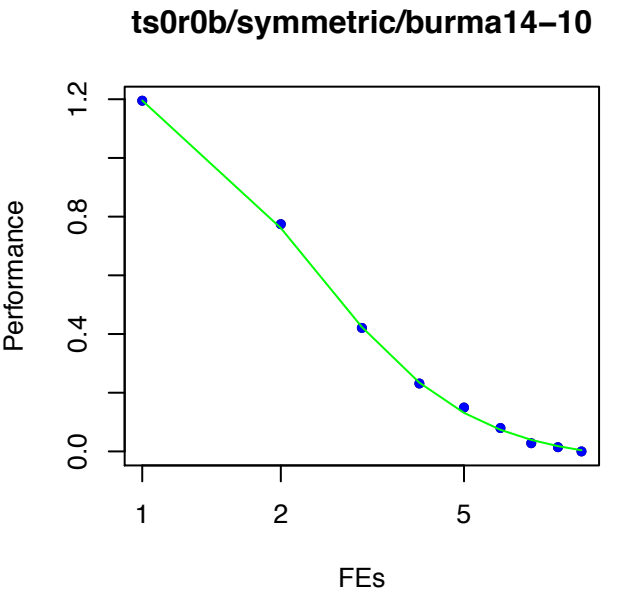
5
6
8
FEs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Performance
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0.8
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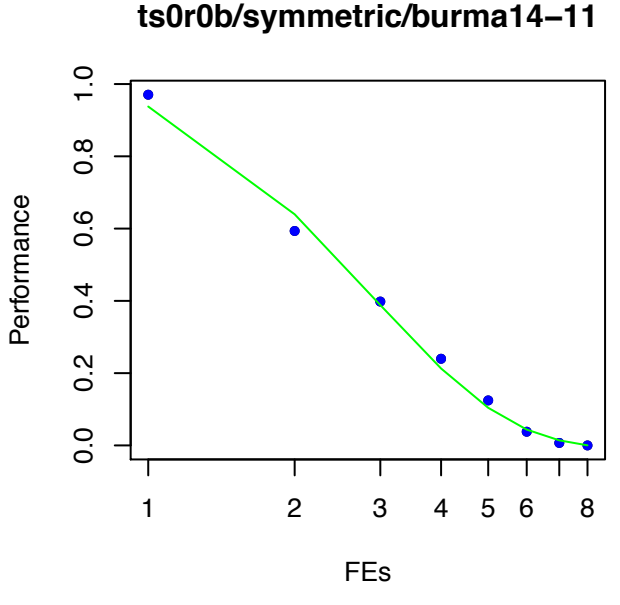
1
2
5
FEs


ts0r0b/symmetric/burma14−11
Performance
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0.8
1.0
1
2
3
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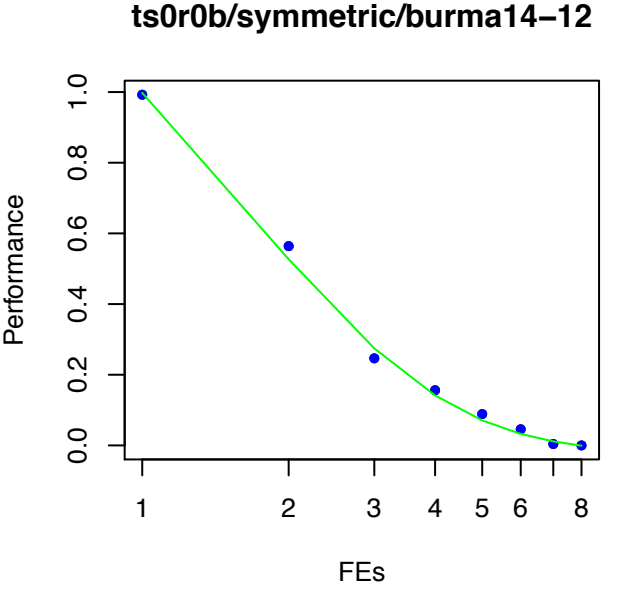
5
6
8
FEs


ts0r0b/symmetric/burma14−12
Performance
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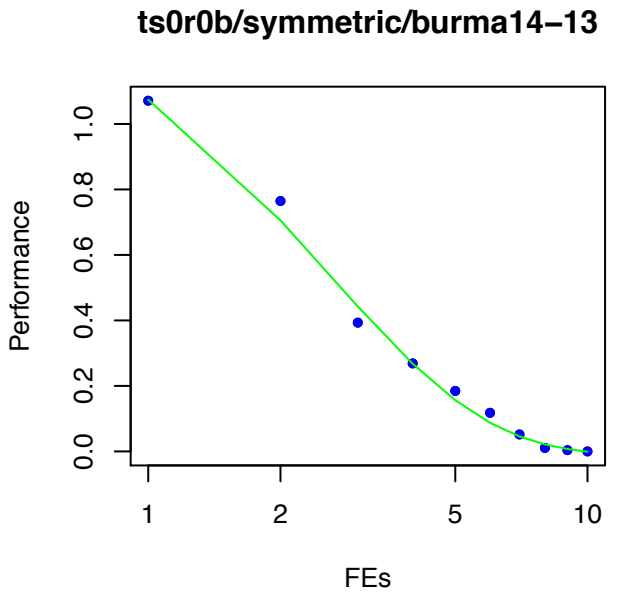
0.8
1.0
1
2
3
4
5
6
8
FEs


ts0r0b/symmetric/burma14−13
Performance
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0.6
0.8
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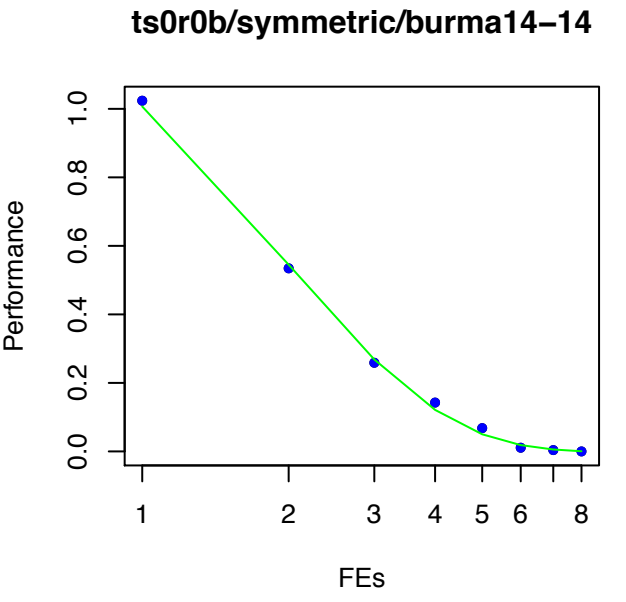
1
2
5
10
FEs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0.8
1.0
1
2
3
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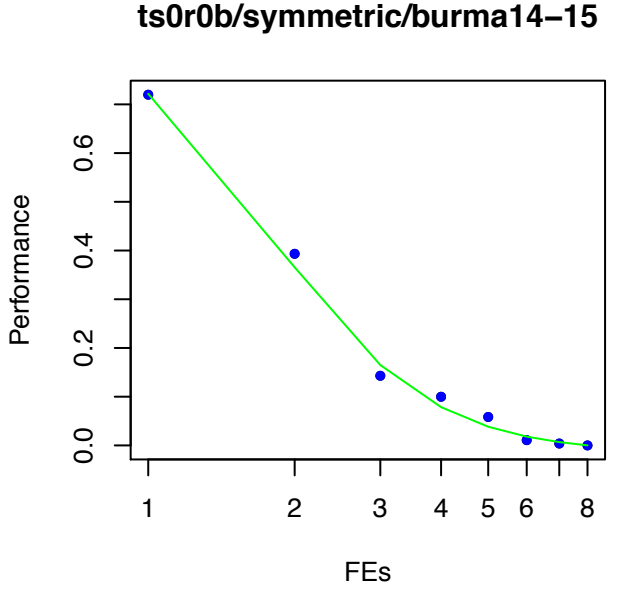
6
8
FEs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Performance
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3
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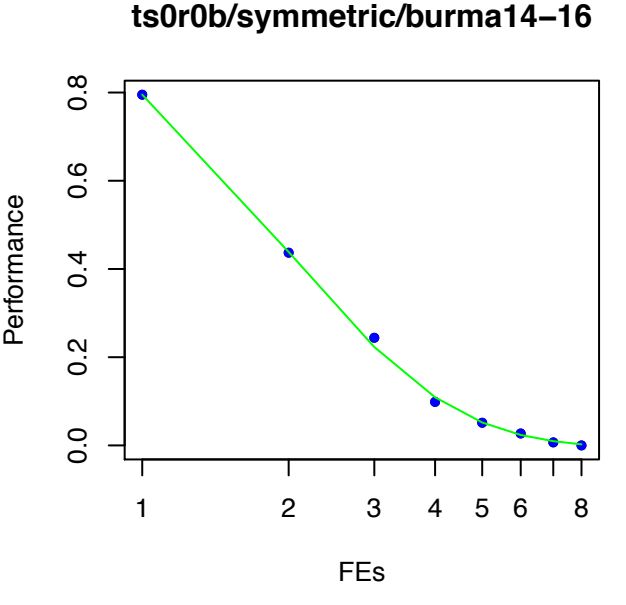
5
6
8
FEs


ts0r0b/symmetric/burma14−16
Performance
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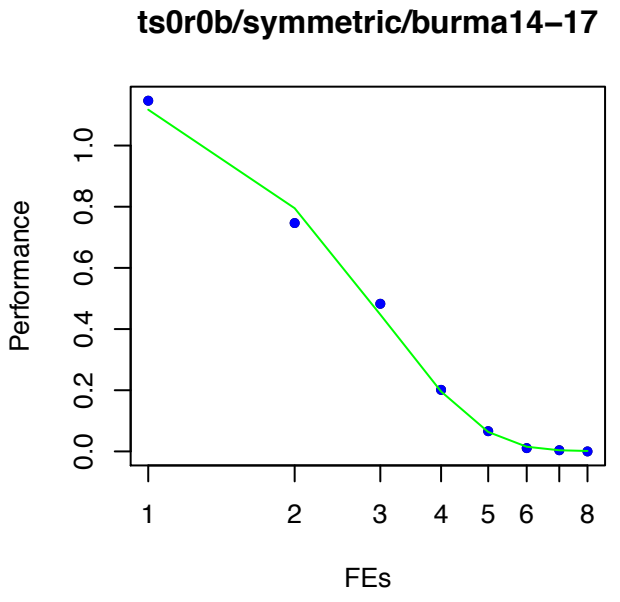
6
8
FEs


ts0r0b/symmetric/burma14−17
Performance
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0.8
1.0
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2
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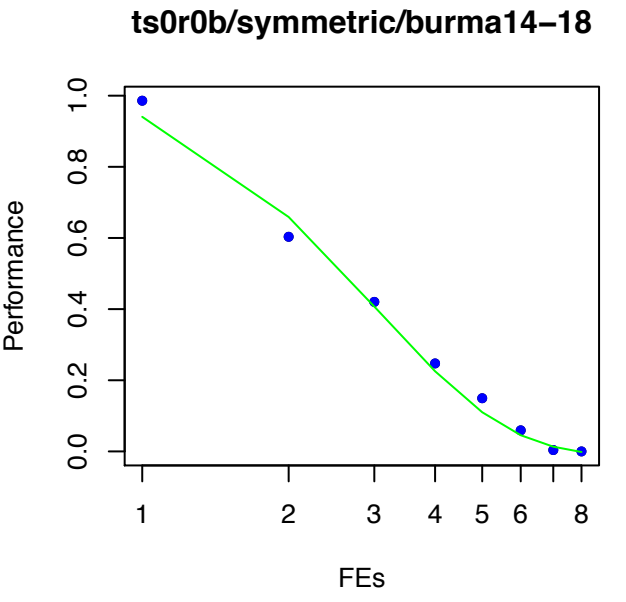
6
8
FEs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Performance
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2
3
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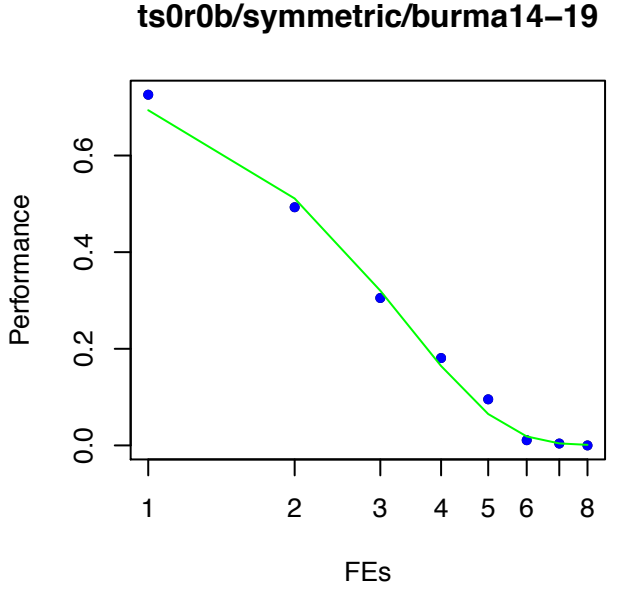
5
6
8
FEs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Performance
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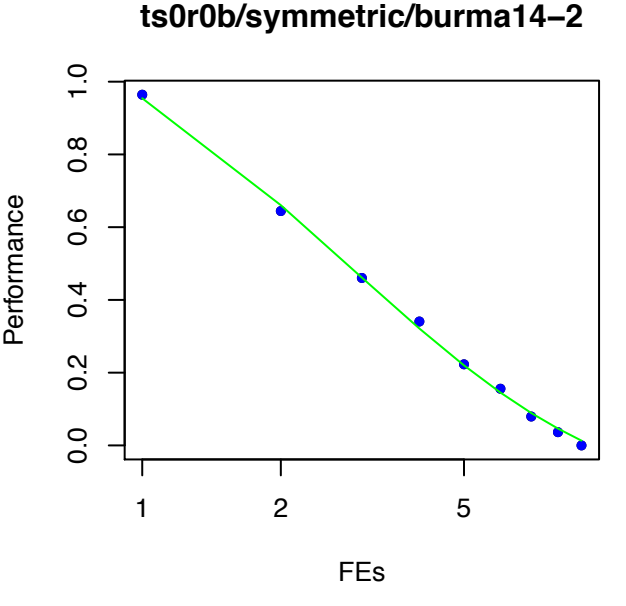
1
2
3
4
5
6
8
FEs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Performance
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0.8
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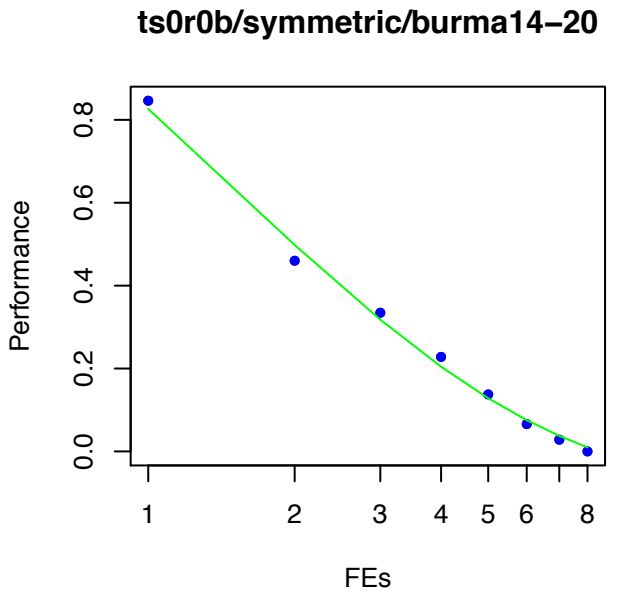
1
2
5
FEs


ts0r0b/symmetric/burma14−20
Performance
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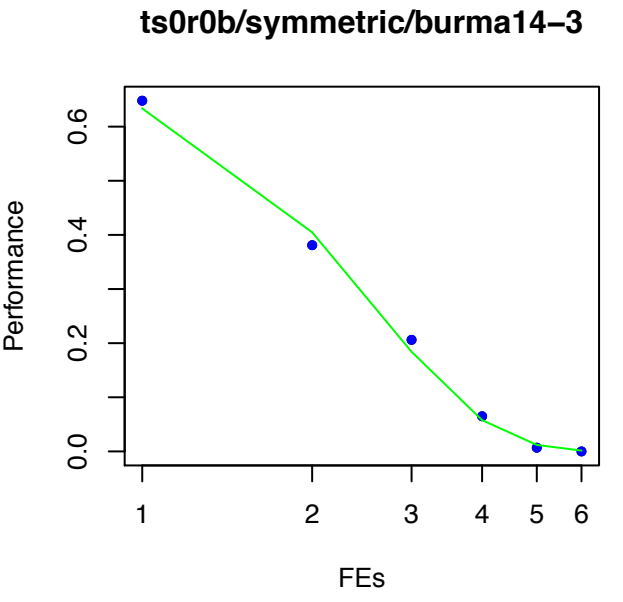
0.6
0.8
1
2
3
4
5
6
8
FEs


ts0r0b/symmetric/burma14−3
Performance
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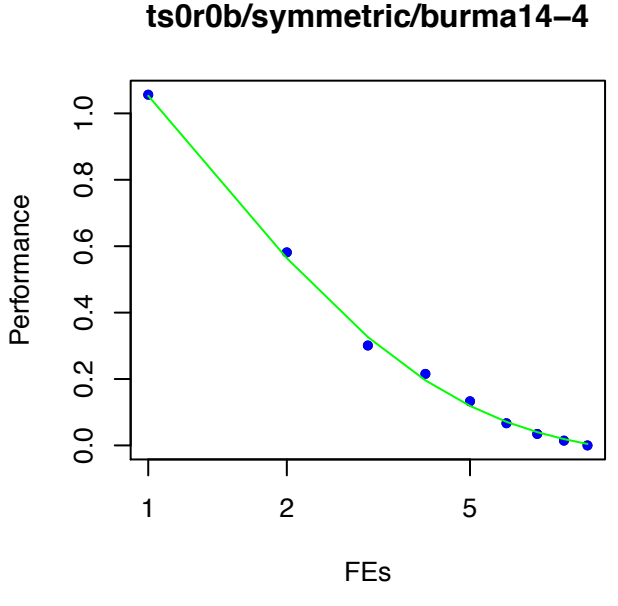
0.4
0.6
1
2
3
4
5
6
FEs


ts0r0b/symmetric/burma14−4
Performance
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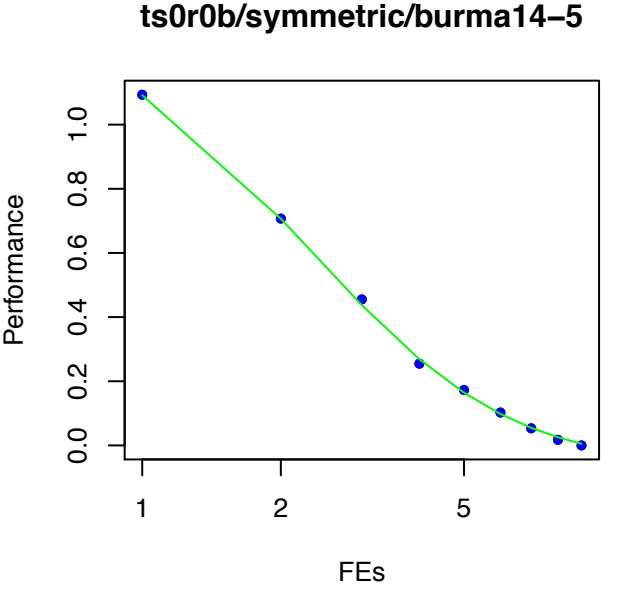
0.4
0.6
0.8
1.0
1
2
5
FEs


ts0r0b/symmetric/burma14−5
Performance
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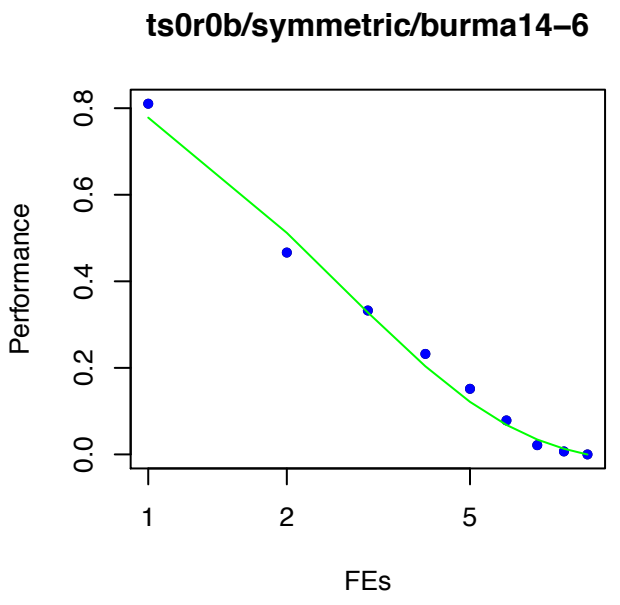
0.2
0.4
0.6
0.8
1.0
1
2
5
FEs


ts0r0b/symmetric/burma14−6
Performance
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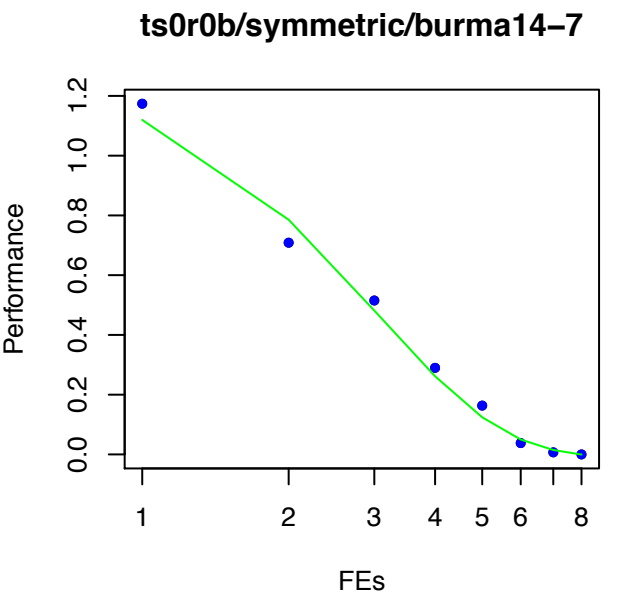
0.2
0.4
0.6
0.8
1
2
5
FEs


ts0r0b/symmetric/burma14−7
Performance
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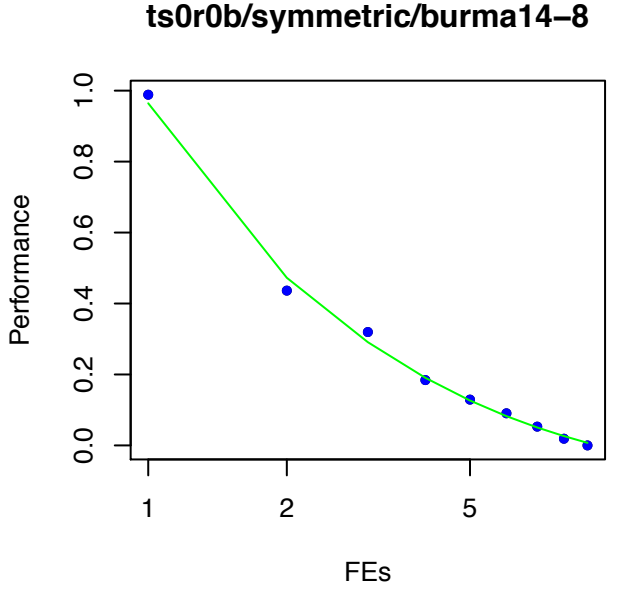
0.4
0.6
0.8
1.0
1.2
1
2
3
4
5
6
8
FEs


ts0r0b/symmetric/burma14−8
Performance
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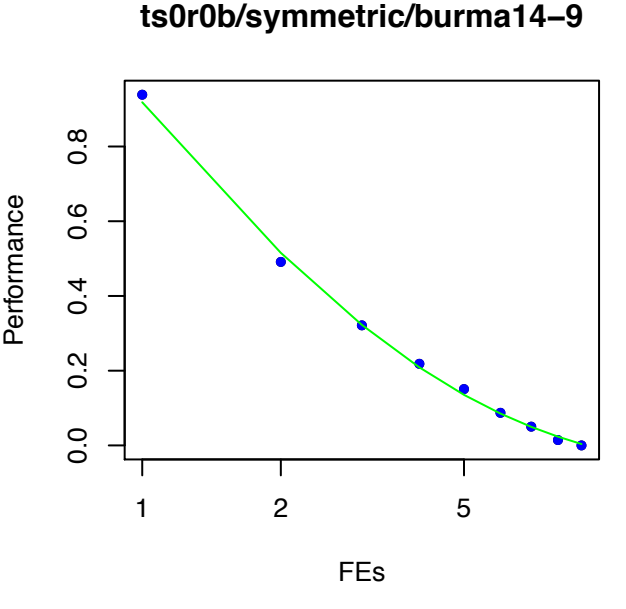
0.2
0.4
0.6
0.8
1.0
1
2
5
FEs


ts0r0b/symmetric/burma14−9
Performance
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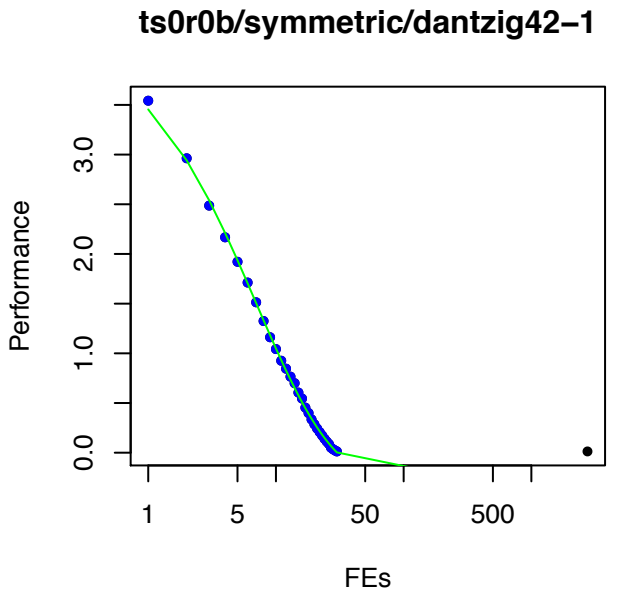
0.2
0.4
0.6
0.8
1
2
5
FEs


ts0r0b/symmetric/dantzig42−1
Performance
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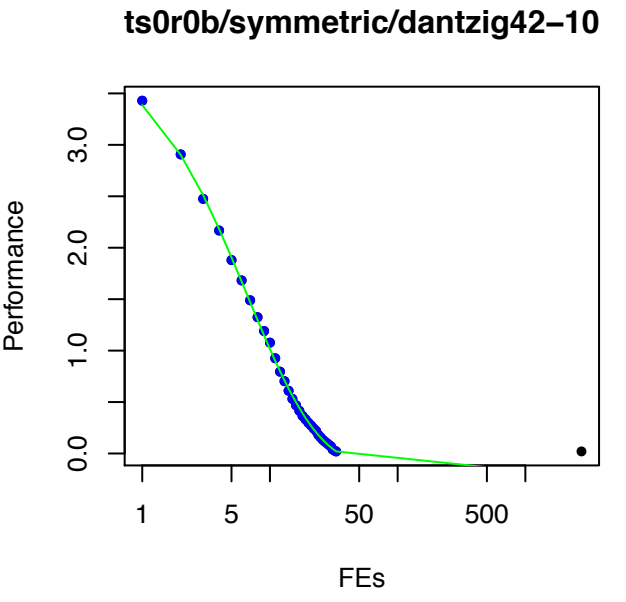
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/dantzig42−10
Performance
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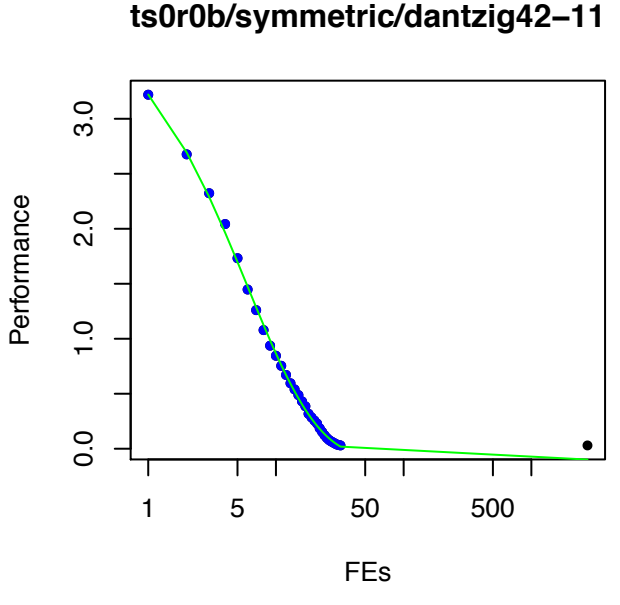
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/dantzig42−11
Performance
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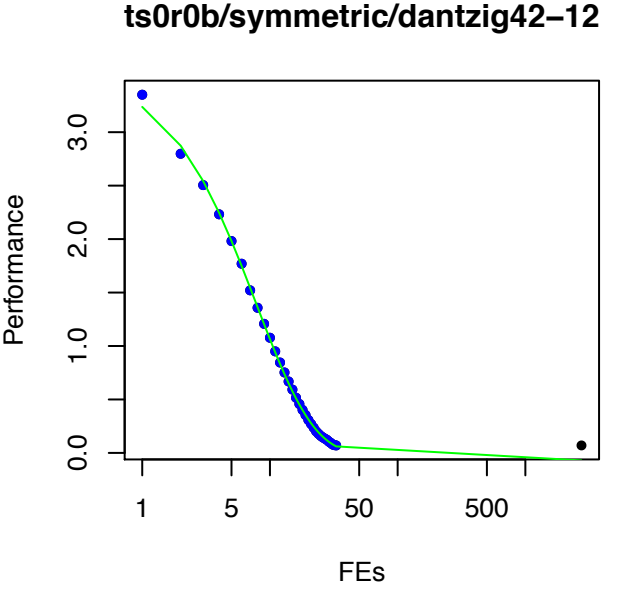
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/dantzig42−12
Performance
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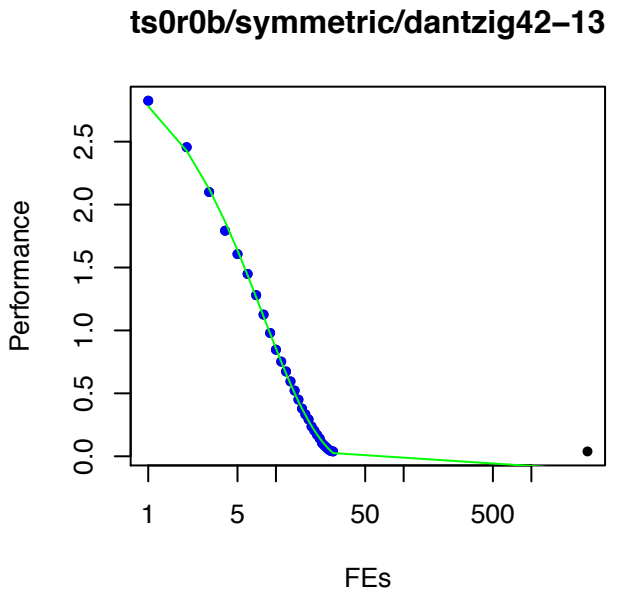
500
FEs


ts0r0b/symmetric/dantzig42−13
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1.5
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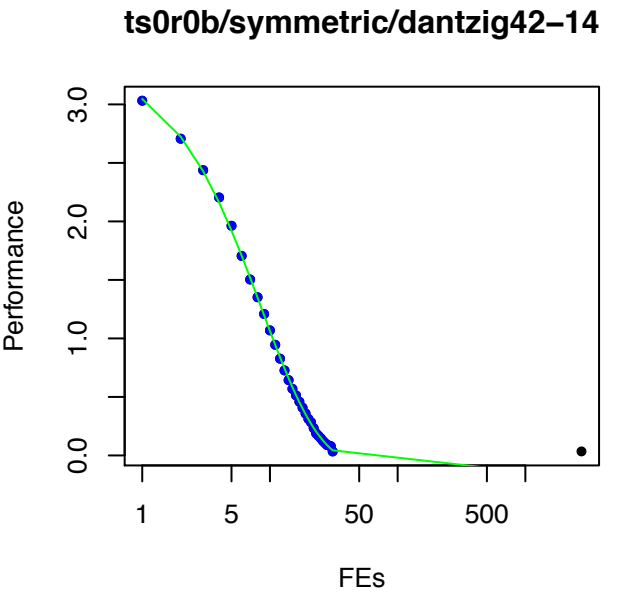
2.5
1
5
50
500
FEs


ts0r0b/symmetric/dantzig42−14
Performance
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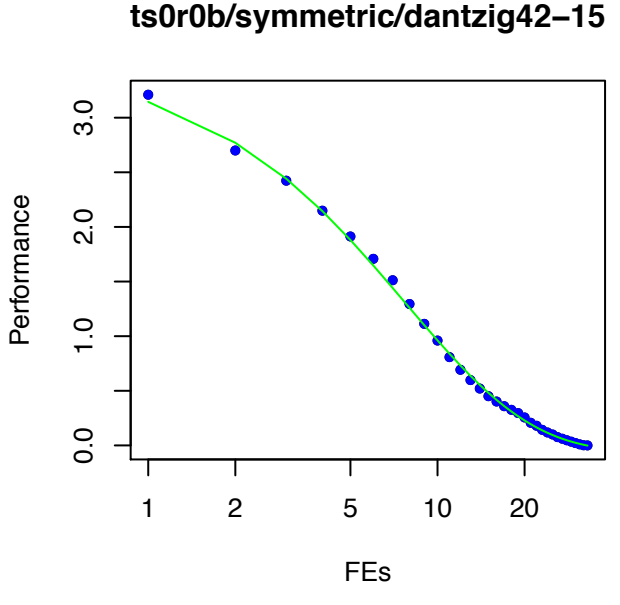
FEs


ts0r0b/symmetric/dantzig42−15
Performance
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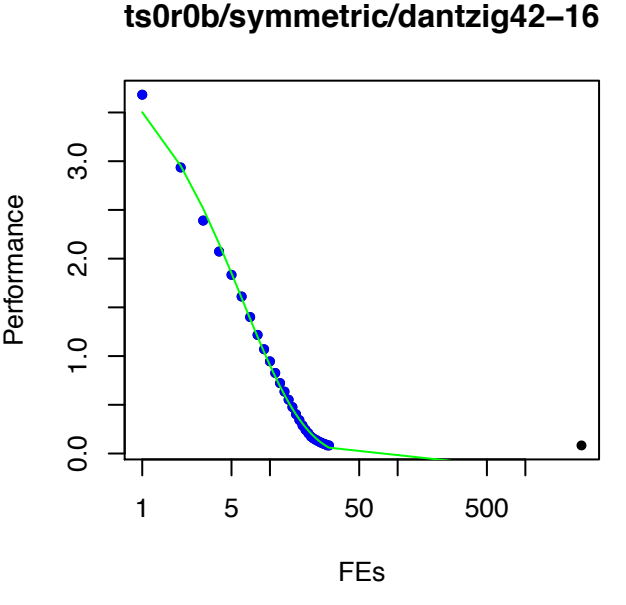
5
10
20
FEs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Performance
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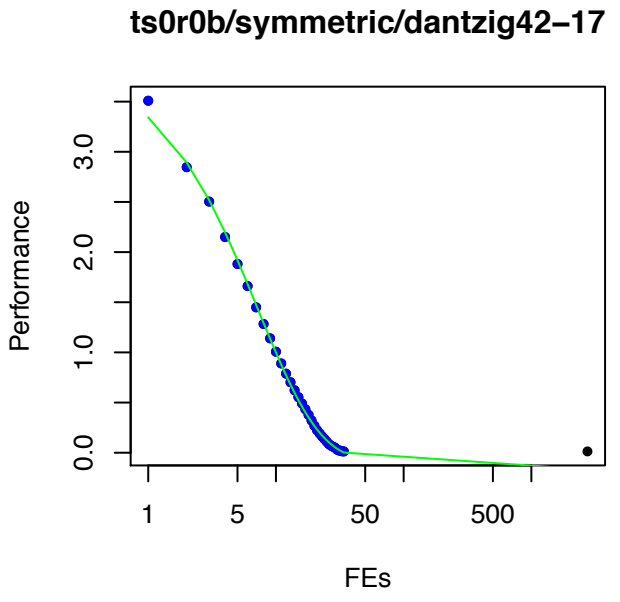
FEs


ts0r0b/symmetric/dantzig42−17
Performance
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1.0
2.0
3.0
1
5
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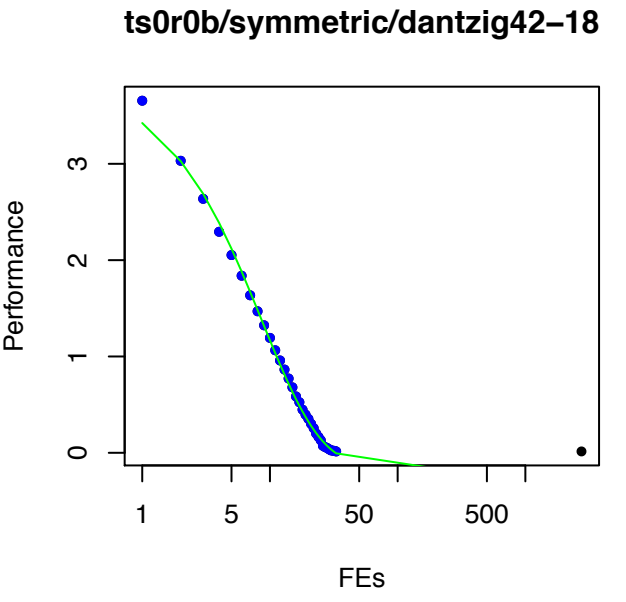
500
FEs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Performance
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2
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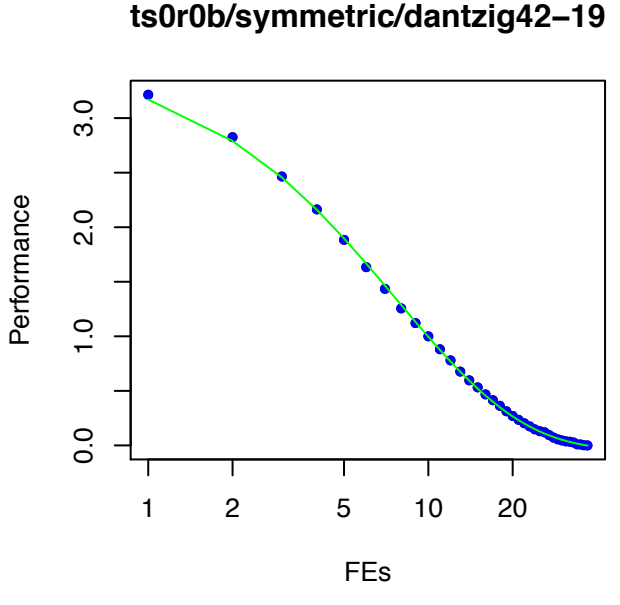
FEs


ts0r0b/symmetric/dantzig42−19
Performance
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3.0
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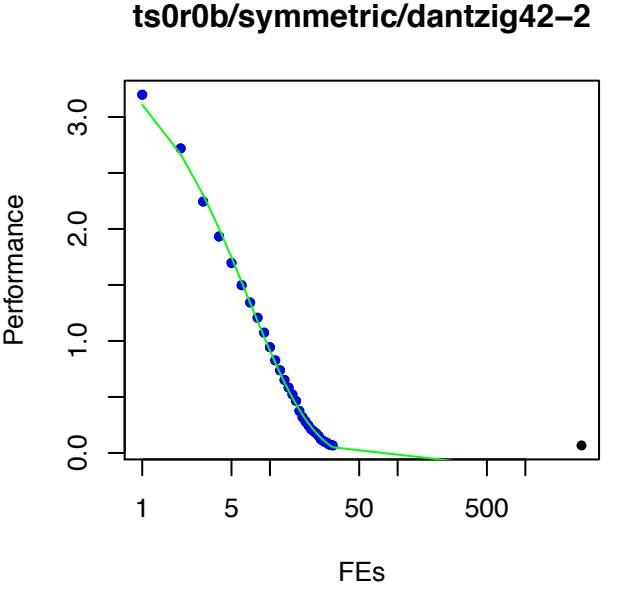
2
5
10
20
FEs


ts0r0b/symmetric/dantzig42−2
Performance
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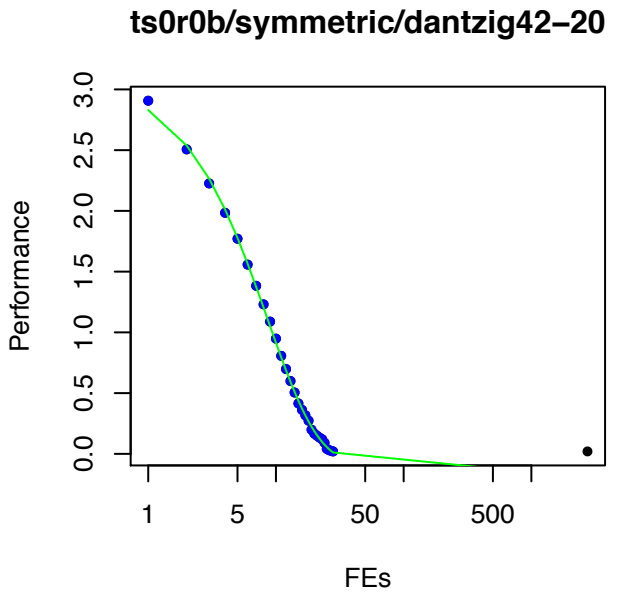
500
FEs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2.5
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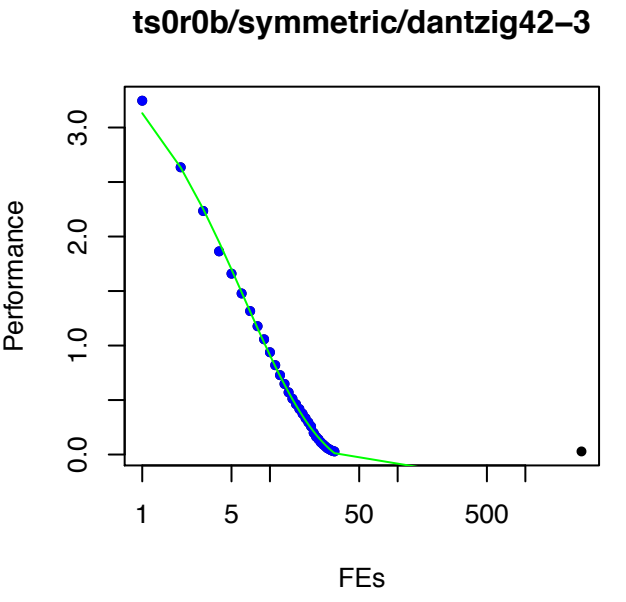
5
50
500
FEs


ts0r0b/symmetric/dantzig42−3
Performance
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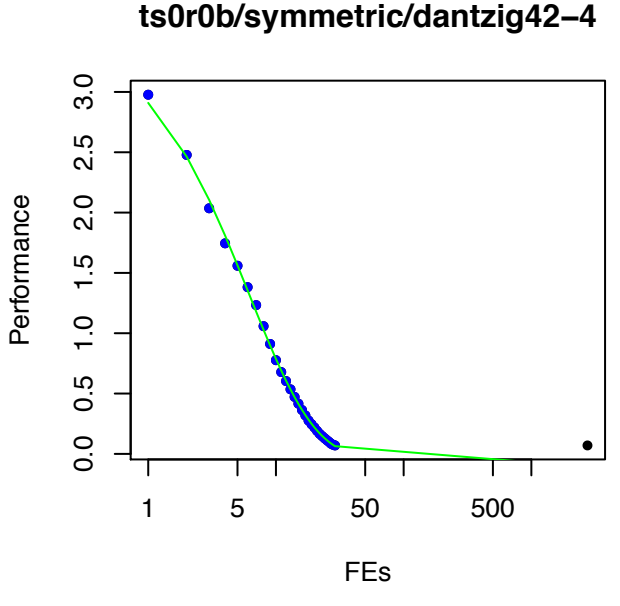
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/dantzig42−4
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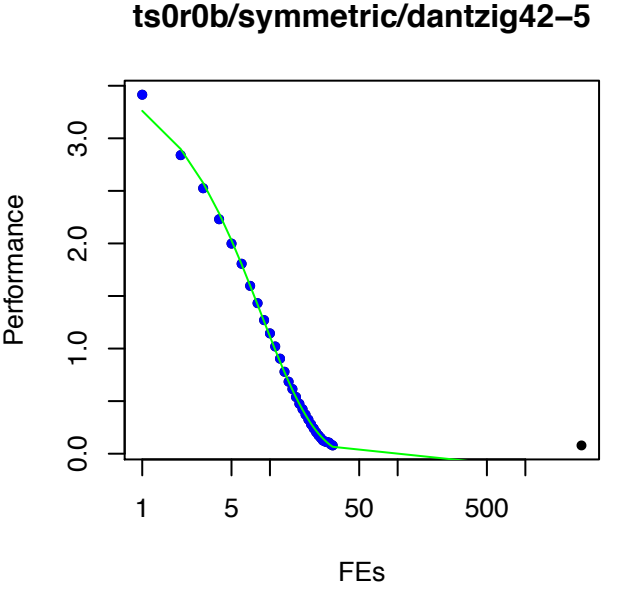
1.5
2.0
2.5
3.0
1
5
50
500
FEs


ts0r0b/symmetric/dantzig42−5
Performance
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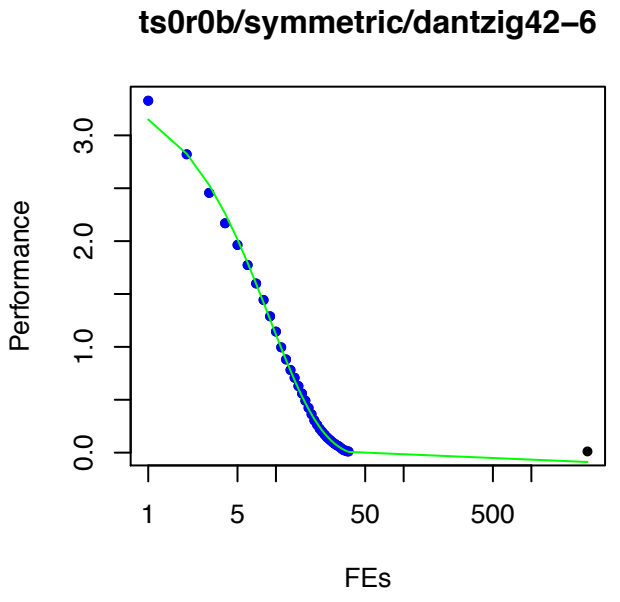
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/dantzig42−6
Performance
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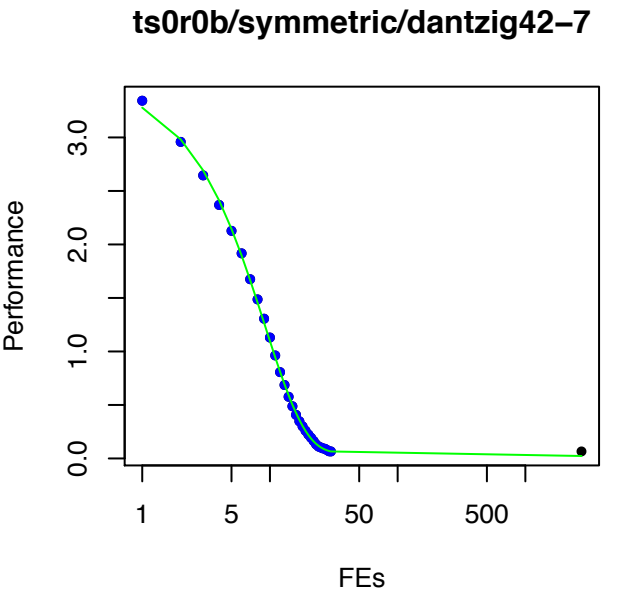
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/dantzig42−7
Performance
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2.0
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1
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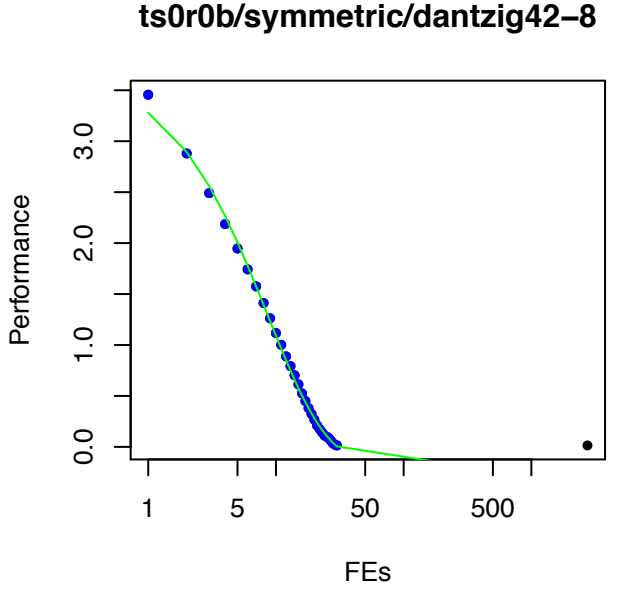
50
500
FEs


ts0r0b/symmetric/dantzig42−8
Performance
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2.0
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1
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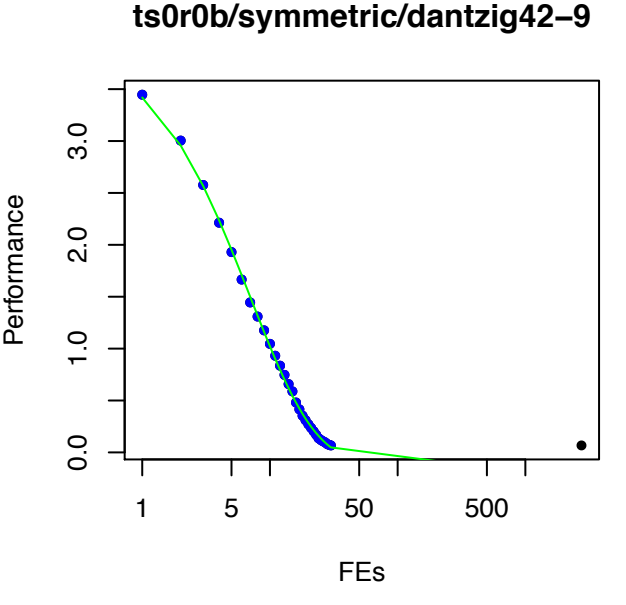
500
FEs


ts0r0b/symmetric/dantzig42−9
Performance
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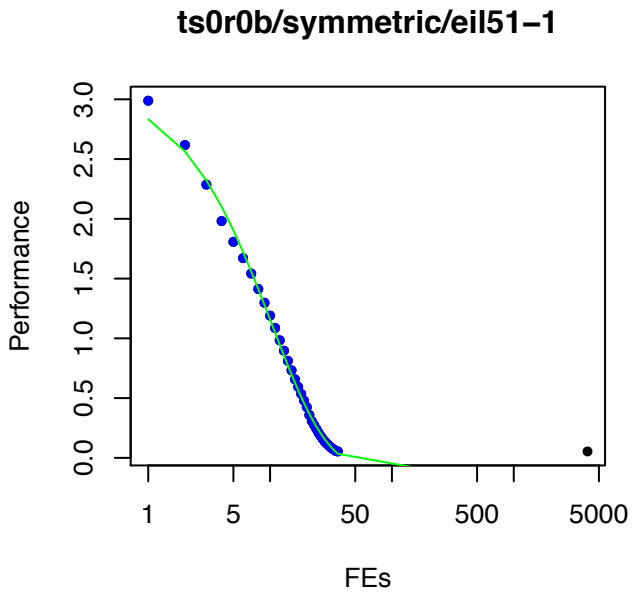
3.0
1
5
50
500
FEs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Performance
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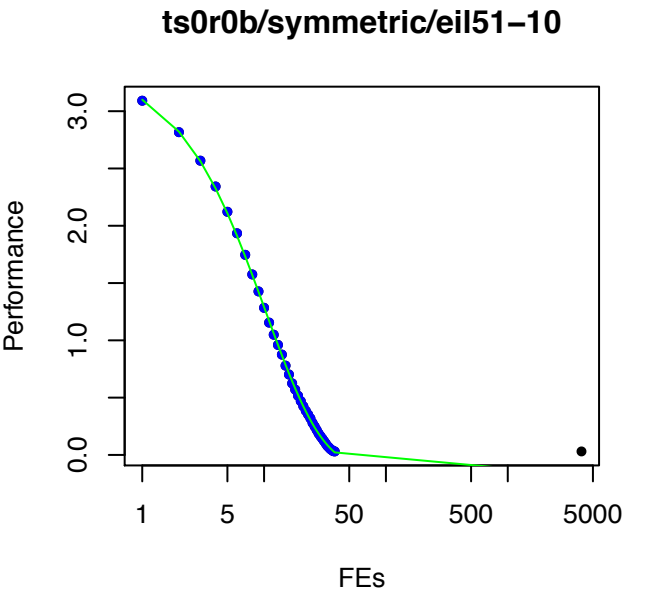
2.0
2.5
3.0
1
5
50
500
5000
FEs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Performance
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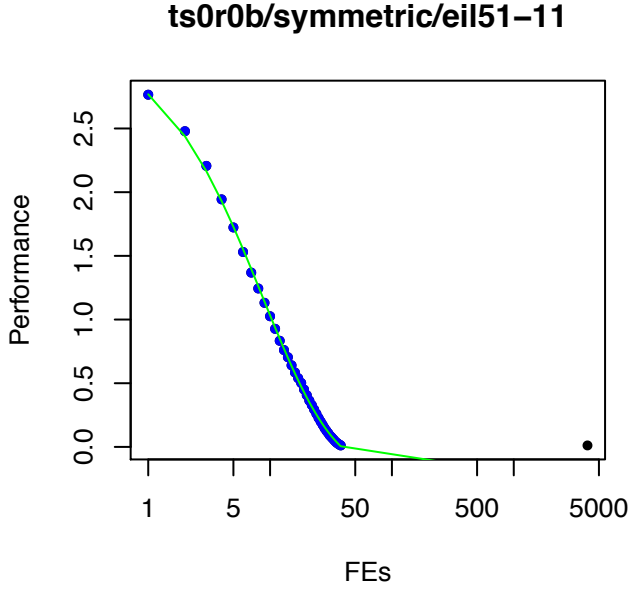
3.0
1
5
50
500
5000
FEs


ts0r0b/symmetric/eil51−11
Performance
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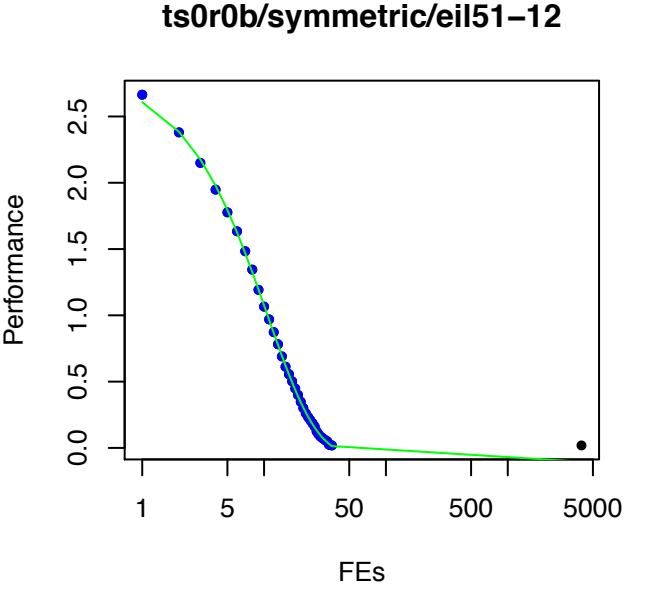
2.0
2.5
1
5
50
500
5000
FEs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Performance
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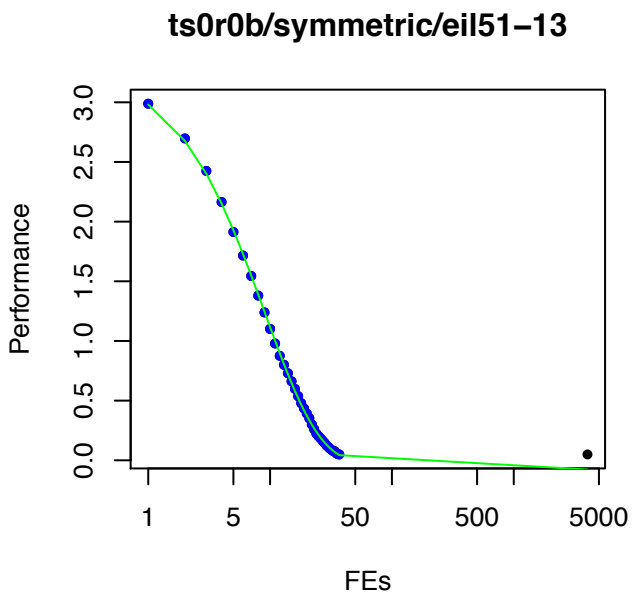
2.5
1
5
50
500
5000
FEs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Performance
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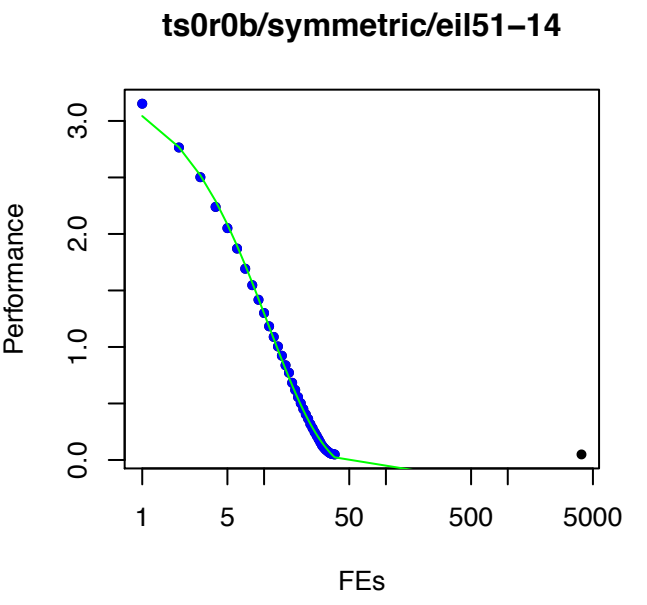
2.5
3.0
1
5
50
500
5000
FEs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Performance
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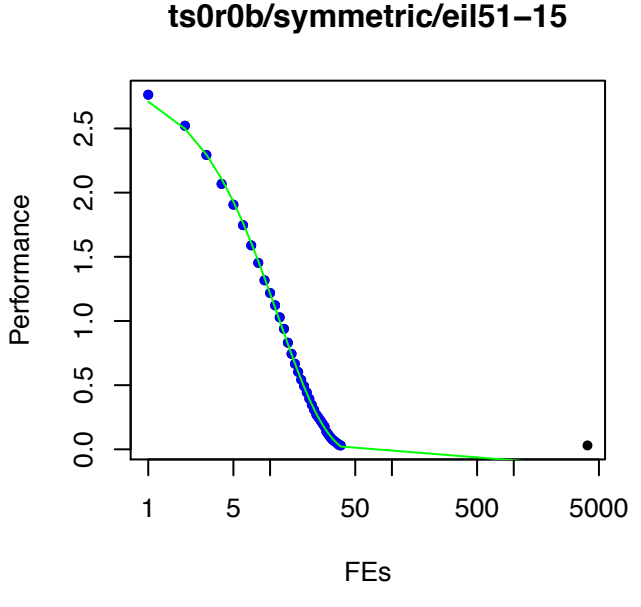
500
5000
FEs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Performance
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2.5
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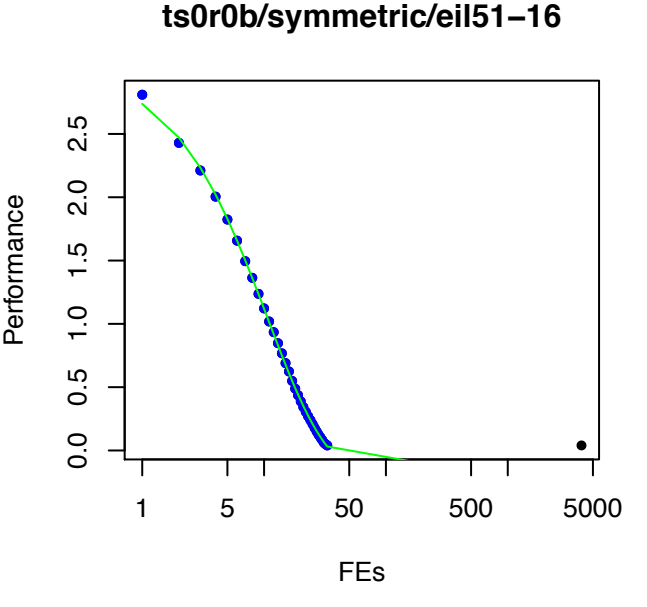
FEs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Performance
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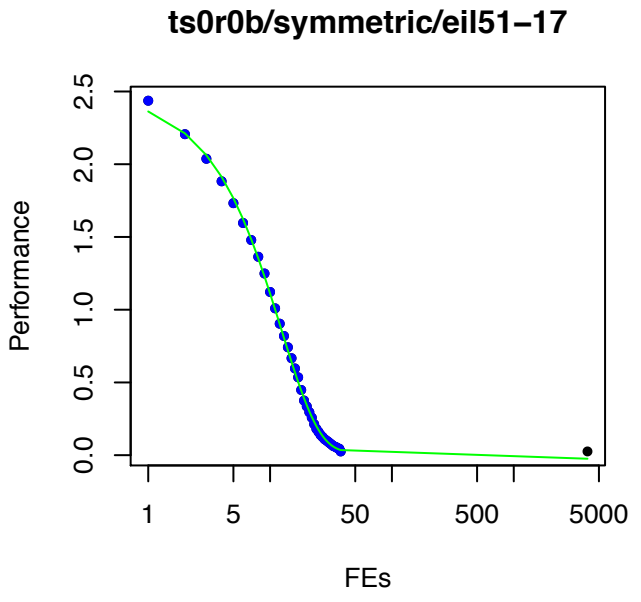
FEs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Performance
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2.5
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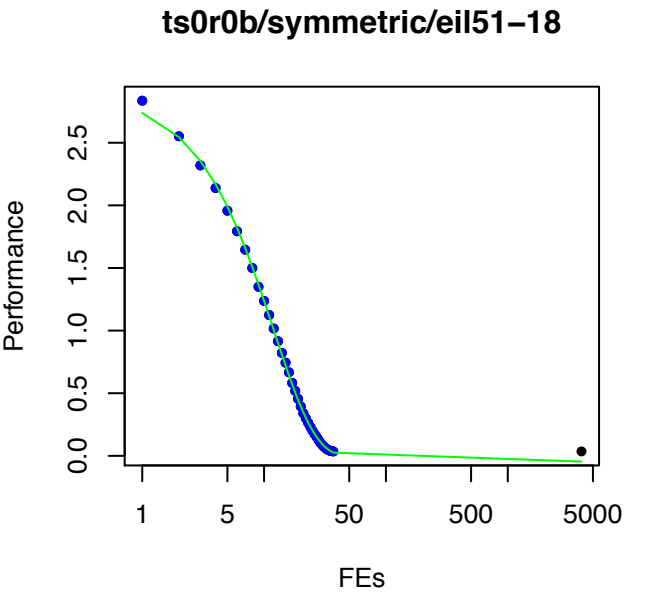
FEs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Performance
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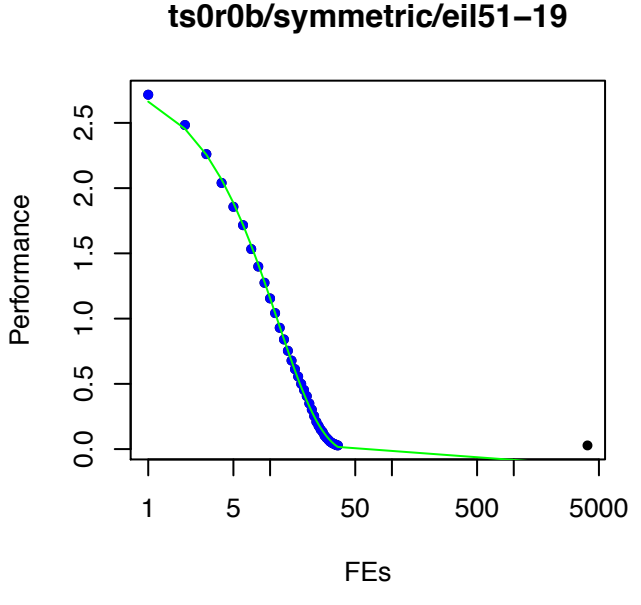
5000
FEs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2.5
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50
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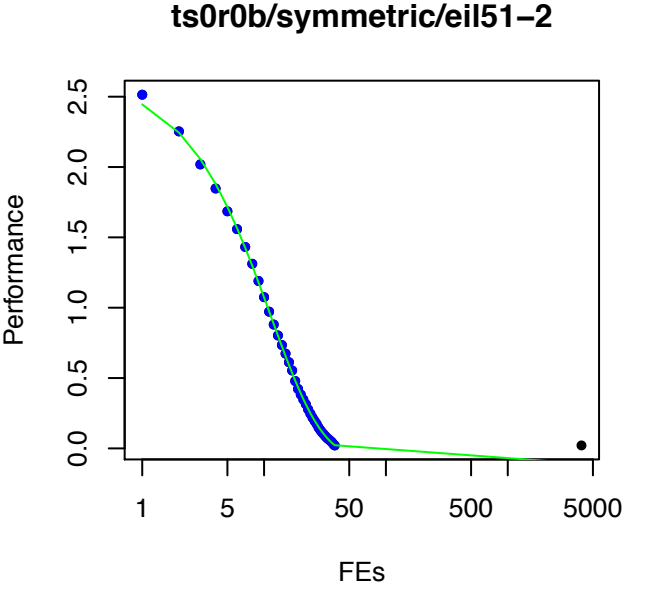
5000
FEs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1
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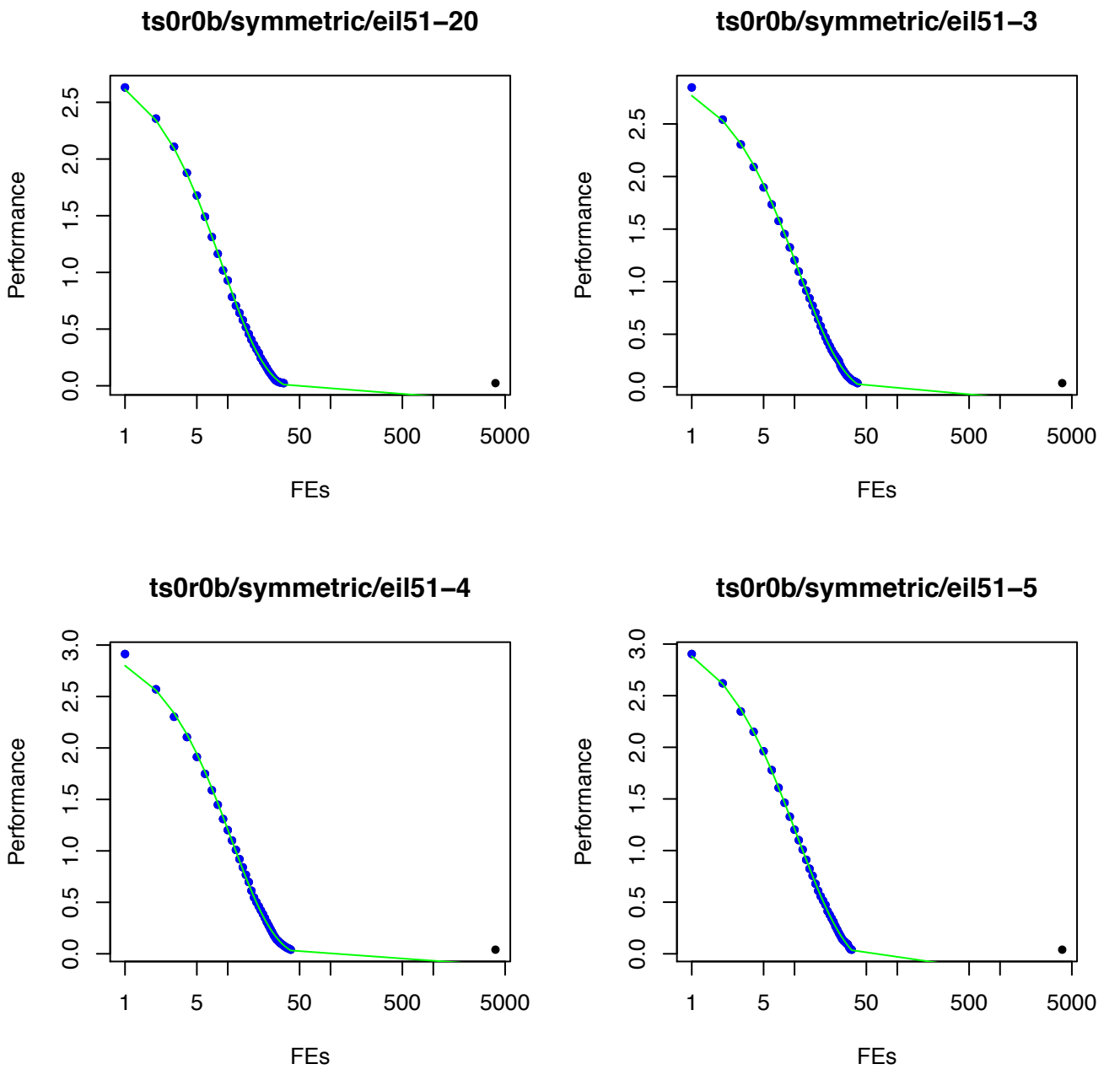
500
5000
FEs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ts0r0b/symmetric/eil51−3
ts0r0b/symmetric/eil51−4
ts0r0b/symmetric/eil51−5
Performance
FEs
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2.5
3.0
1
5
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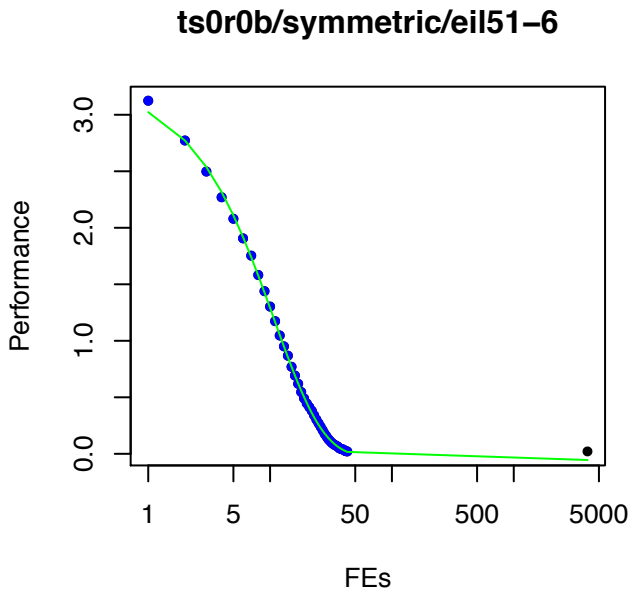
500
5000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Performance
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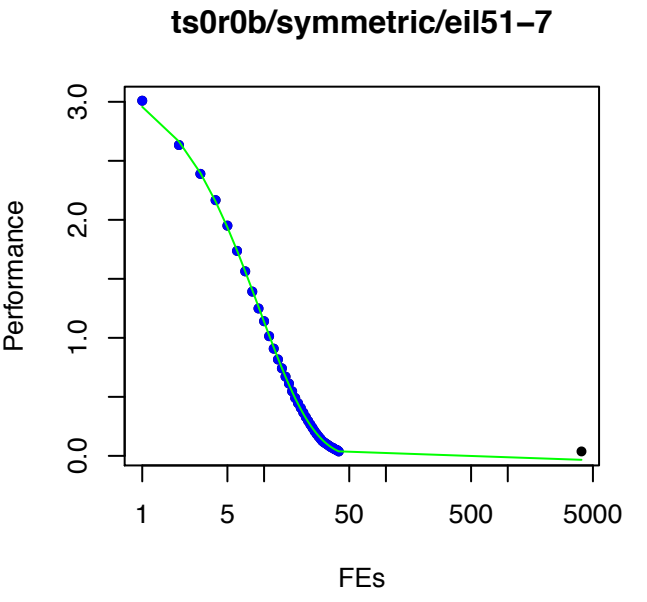
50
500
5000
FEs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Performance
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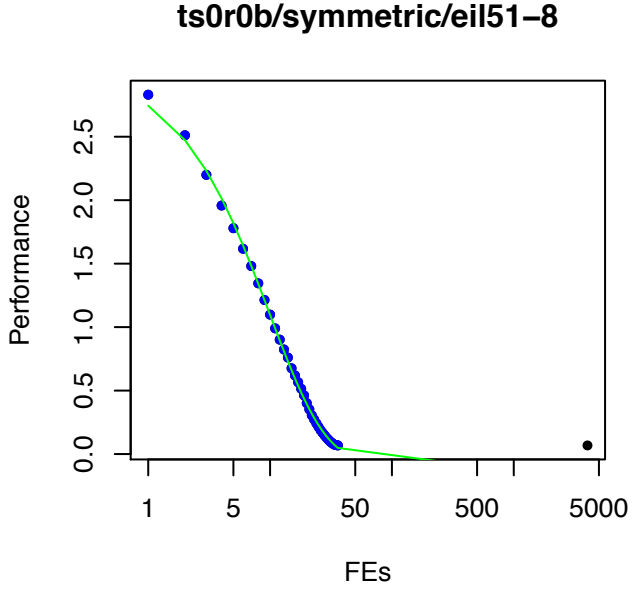
FEs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2.5
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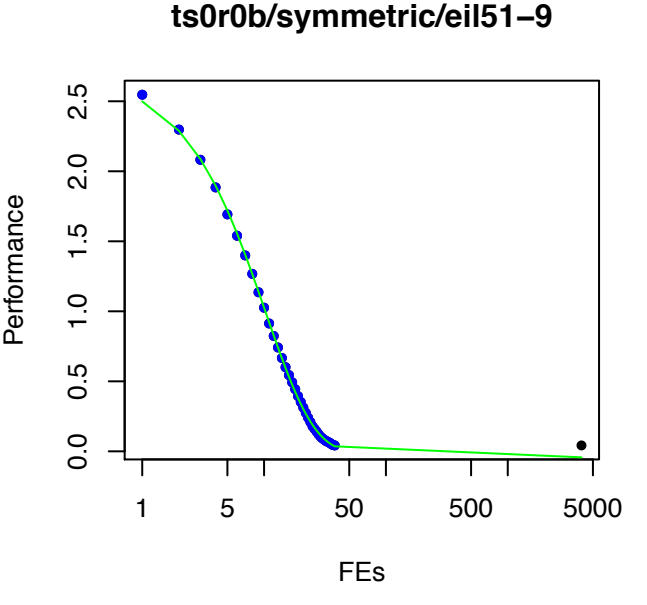
50
500
5000
FEs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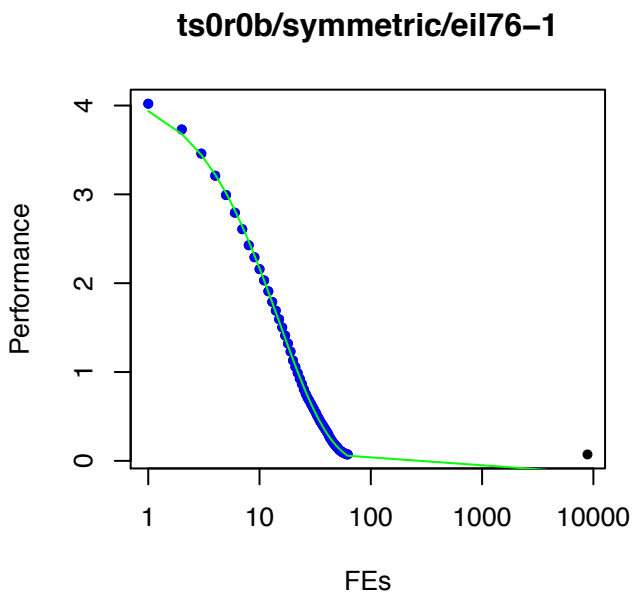
1
5
50
500
5000
FEs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Performance
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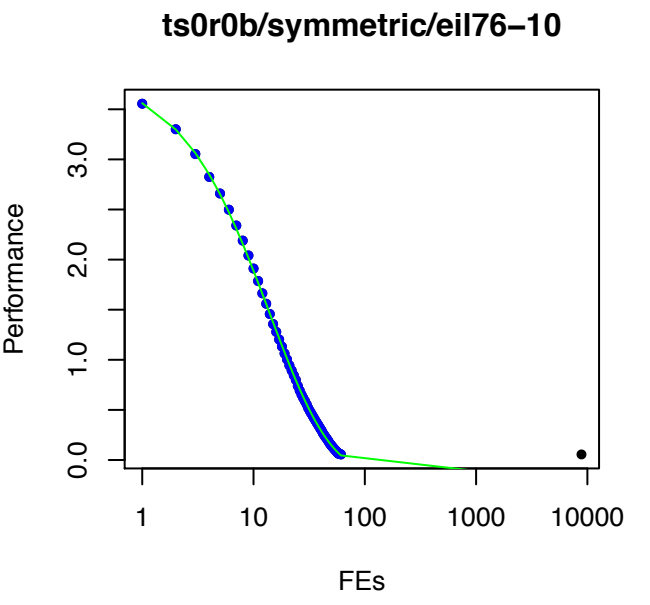
2
3
4
1
10
100
1000
10000
FEs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Performance
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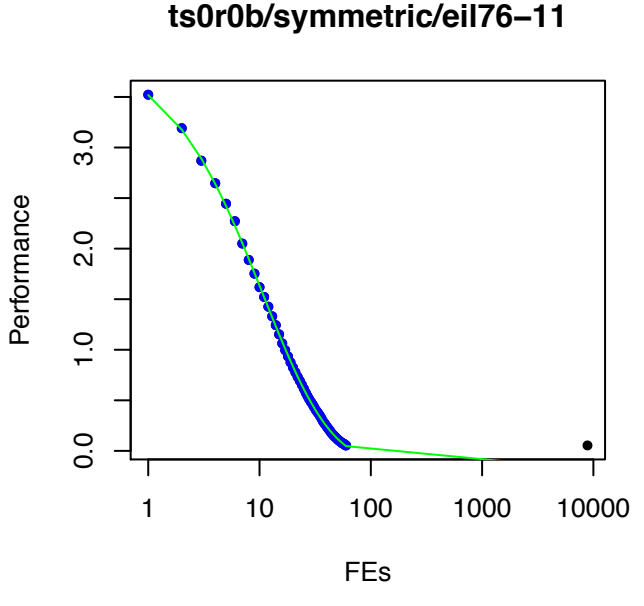
2.0
3.0
1
10
100
1000
10000
FEs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Performance
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2.0
3.0
1
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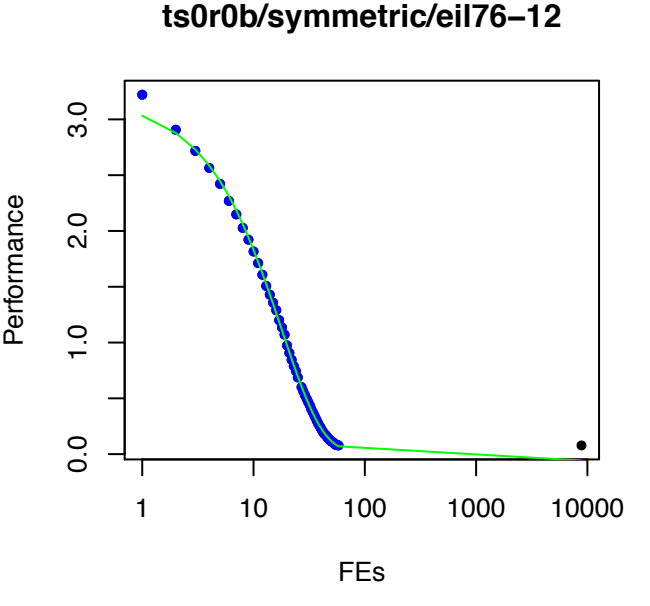
1000
10000
FEs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Performance
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3.0
1
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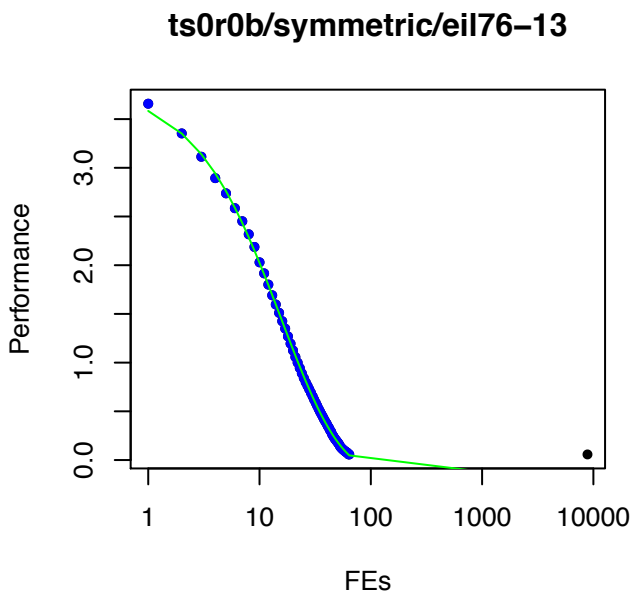
1000
10000
FEs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Performance
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3.0
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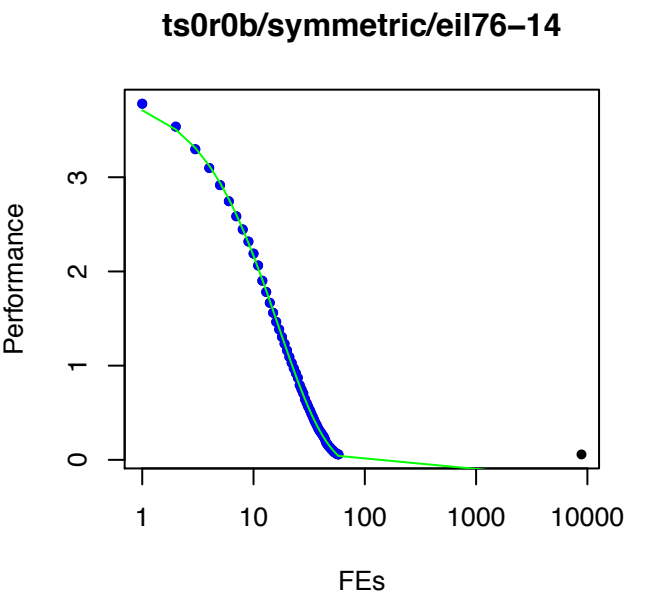
1000
10000
FEs


ts0r0b/symmetric/eil76−14
Performance
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1
2
3
1
10
100
1000
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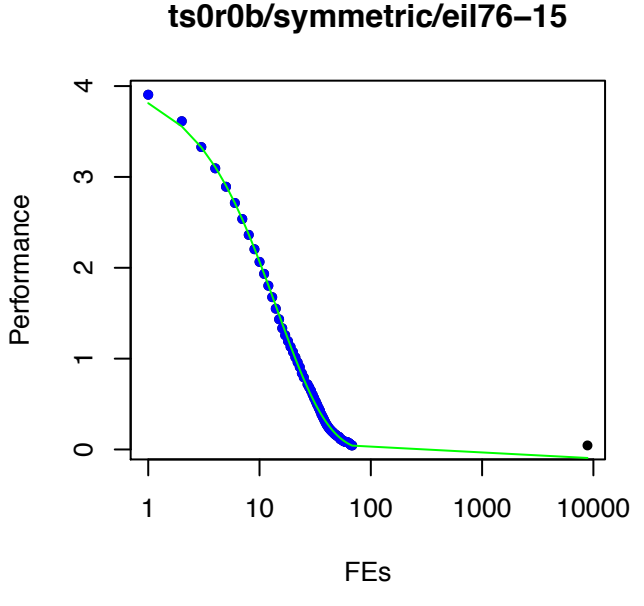
FEs


ts0r0b/symmetric/eil76−15
Performance
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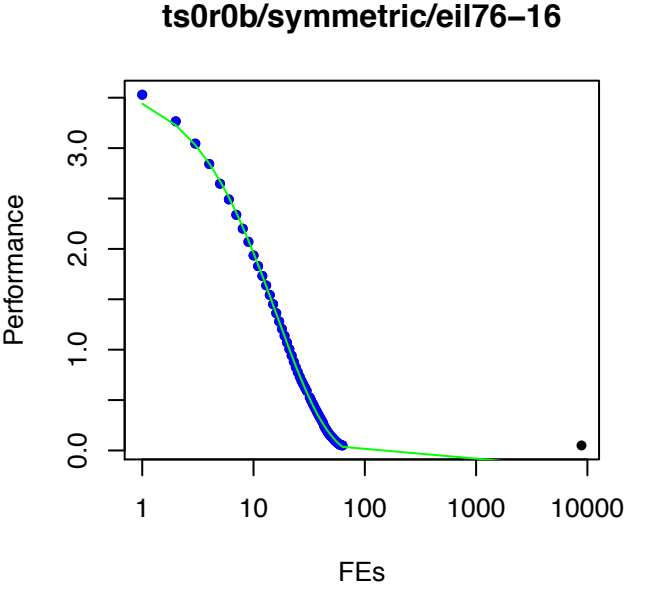
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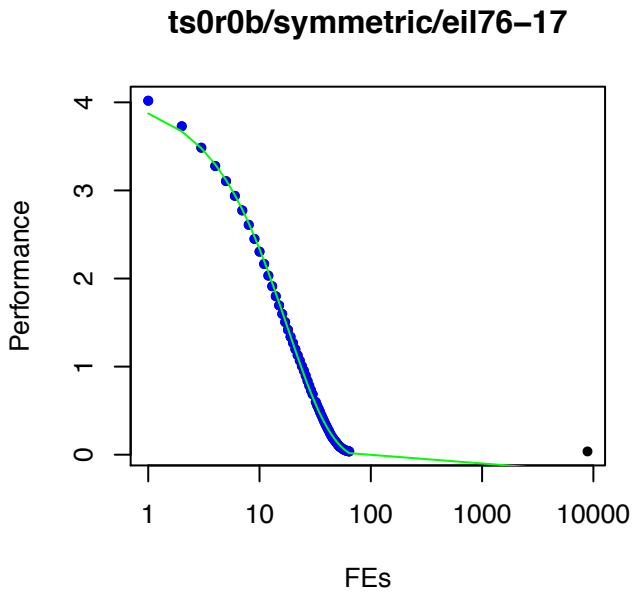
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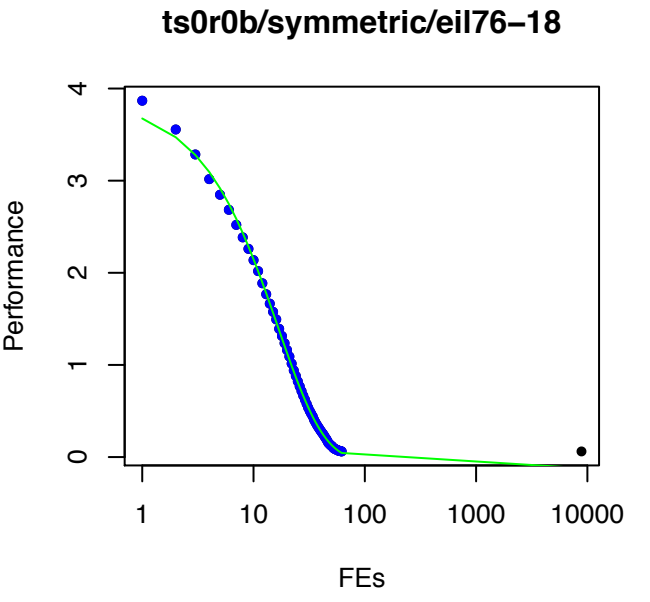
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Performance
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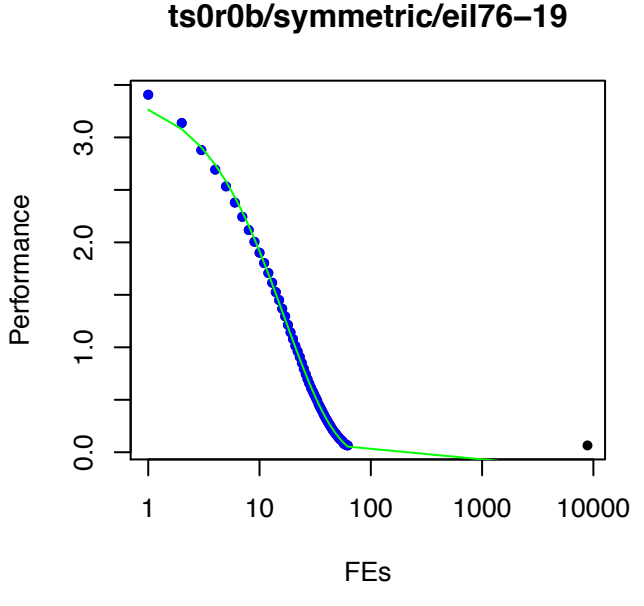
FEs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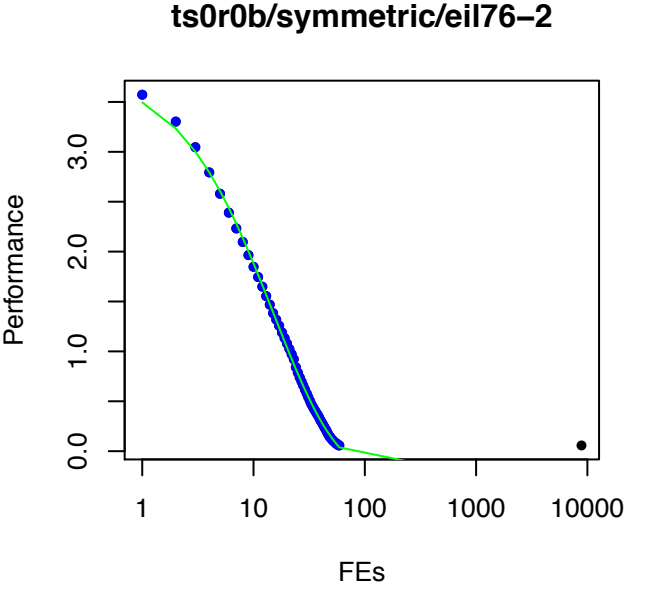
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Performance
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3.0
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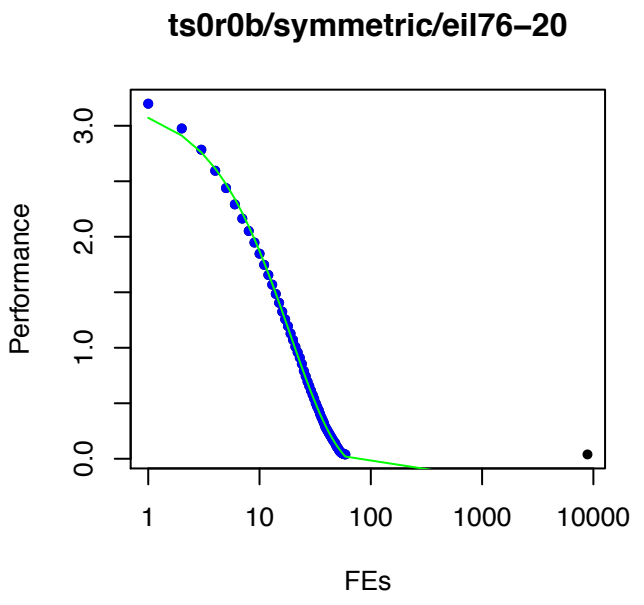
100
1000
10000
FEs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Performance
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1000
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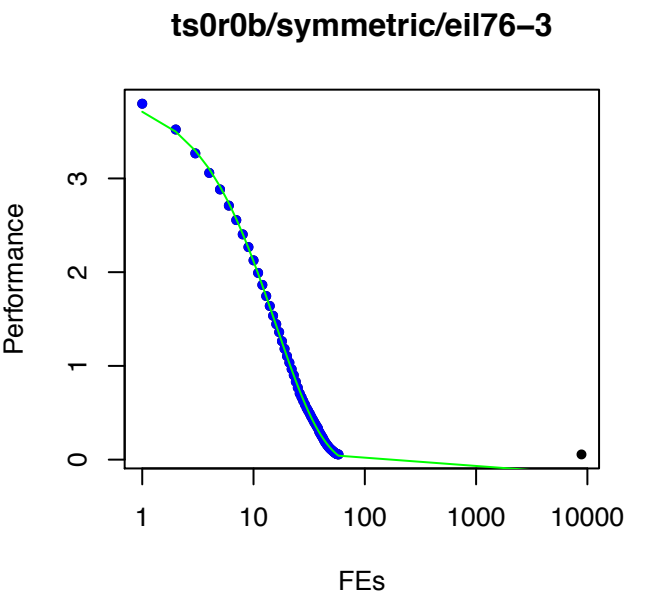
FEs


ts0r0b/symmetric/eil76−3
Performance
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2
3
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1000
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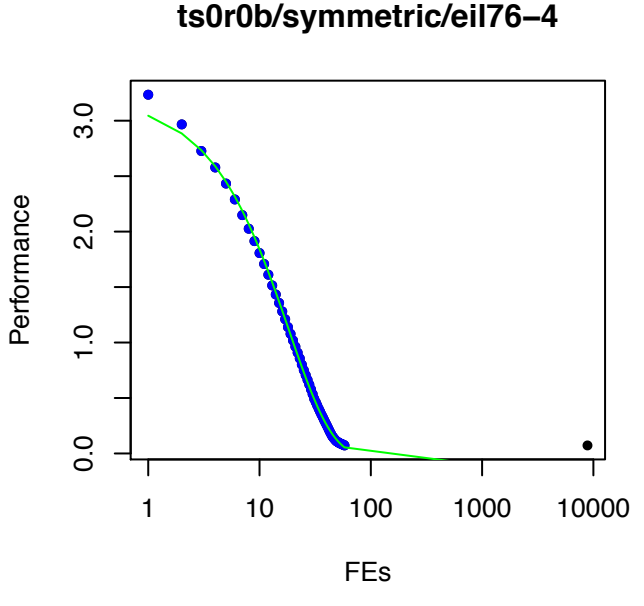
FEs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Performance
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3.0
1
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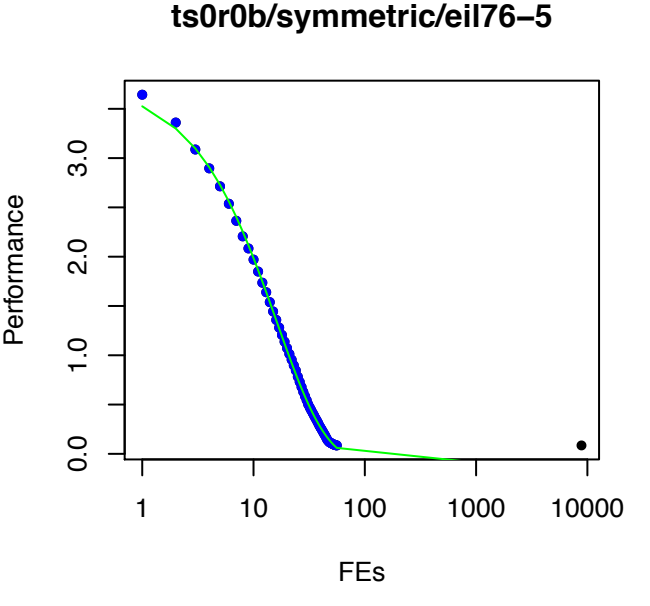
1000
10000
FEs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Performance
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3.0
1
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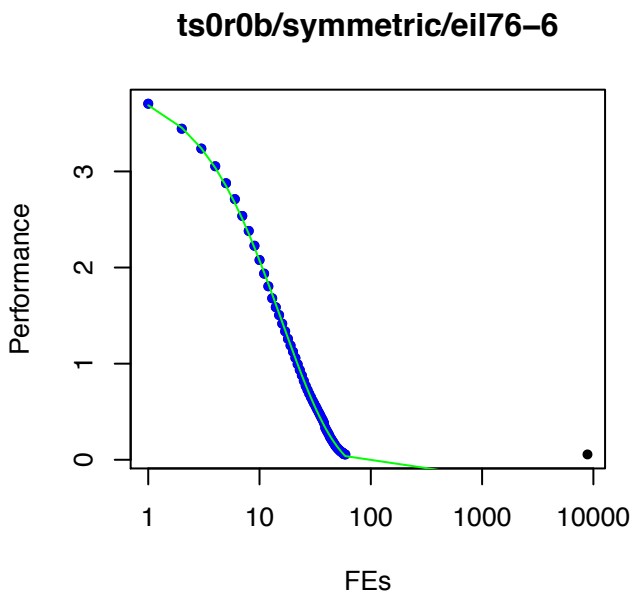
1000
10000
FEs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Performance
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2
3
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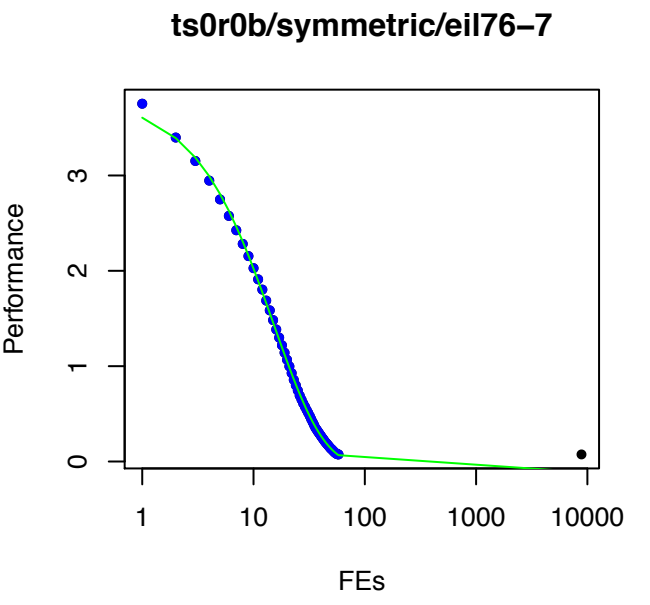
1000
10000
FEs


ts0r0b/symmetric/eil76−7
Performance
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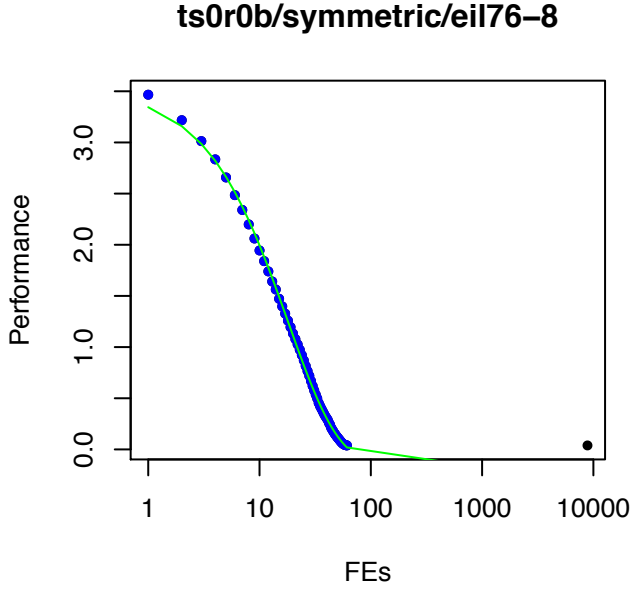
2
3
1
10
100
1000
10000
FEs


ts0r0b/symmetric/eil76−8
Performance
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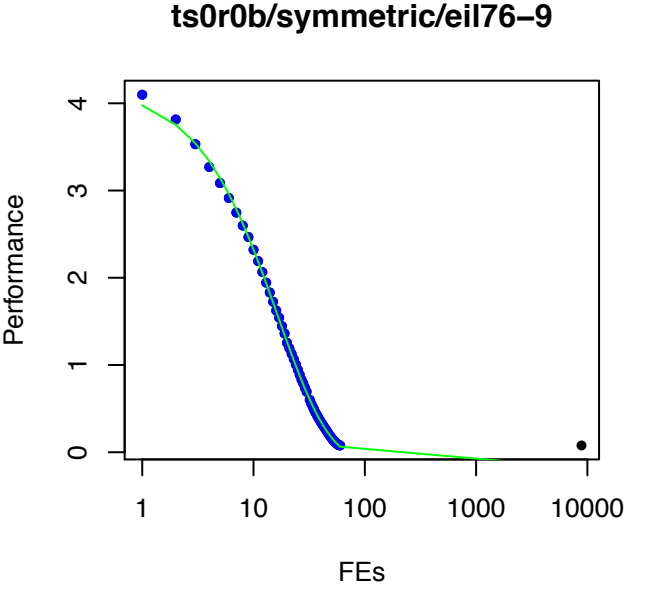
2.0
3.0
1
10
100
1000
10000
FEs


ts0r0b/symmetric/eil76−9
Performance
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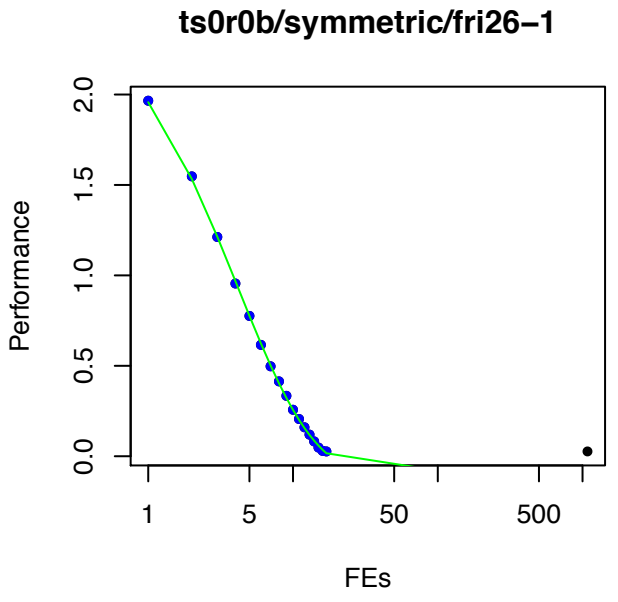
2
3
4
1
10
100
1000
10000
FEs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Performance
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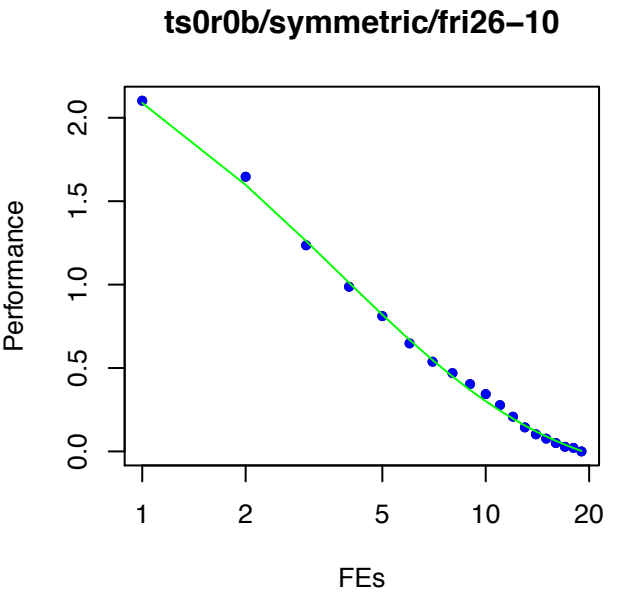
0.5
1.0
1.5
2.0
1
5
50
500
FEs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Performance
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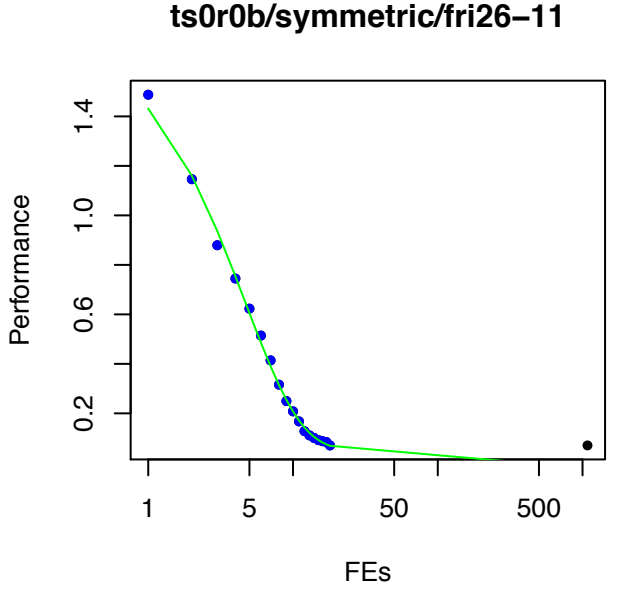
0.5
1.0
1.5
2.0
1
2
5
10
20
FEs


ts0r0b/symmetric/fri26−11
Performance
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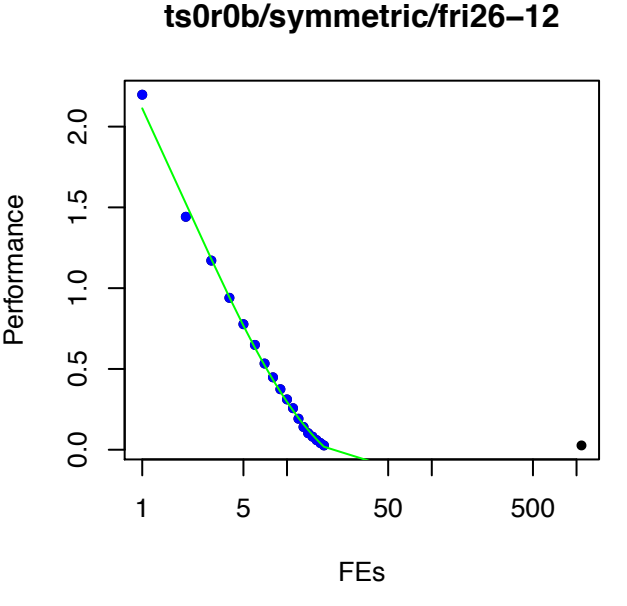
0.6
1.0
1.4
1
5
50
500
FEs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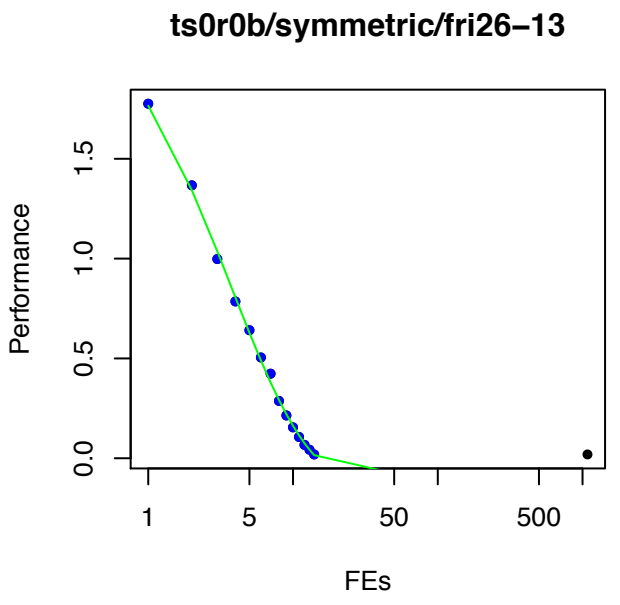
1.5
2.0
1
5
50
500
FEs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Performance
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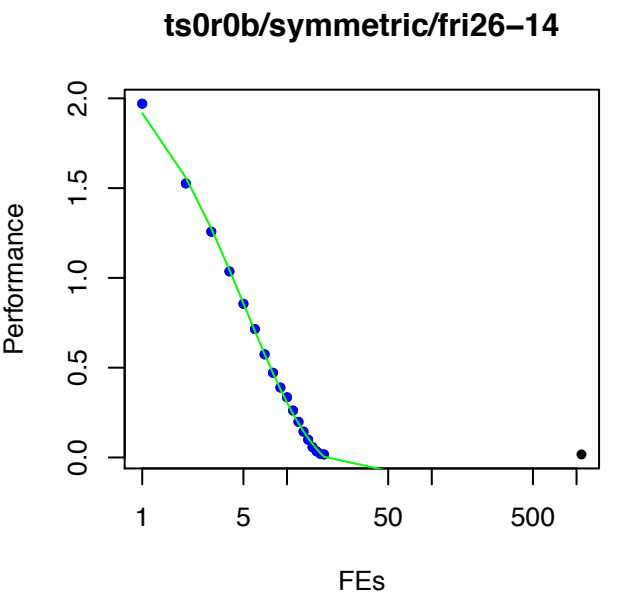
1.0
1.5
1
5
50
500
FEs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Performance
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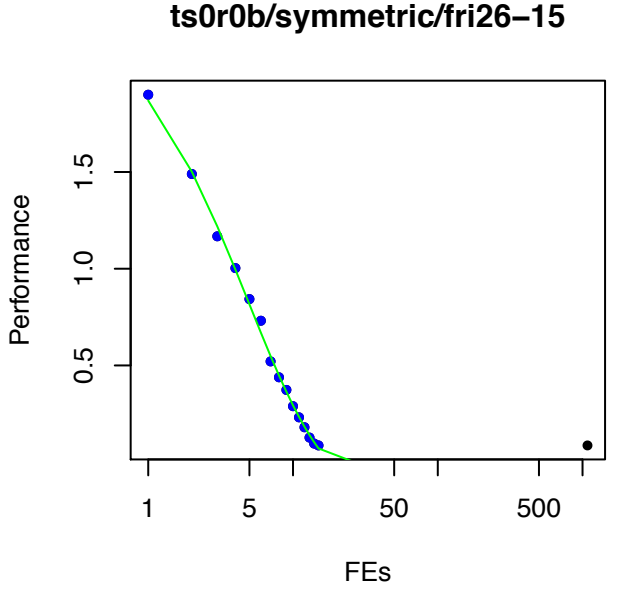
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0b/symmetric/fri26−15
Performance
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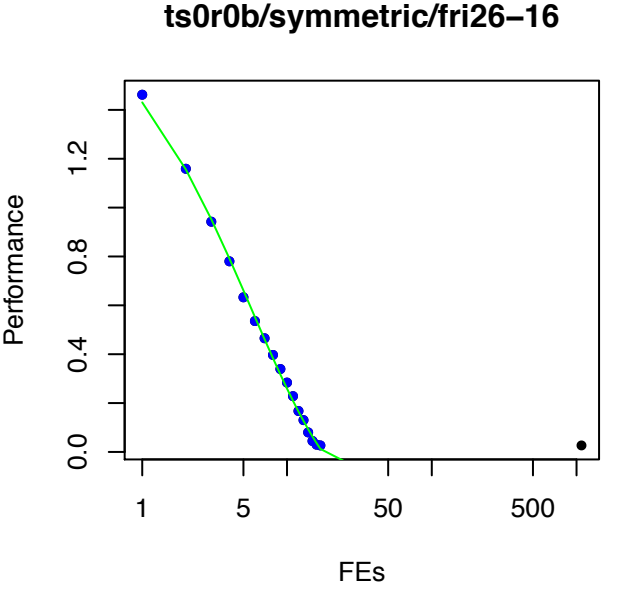
1
5
50
500
FEs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Performance
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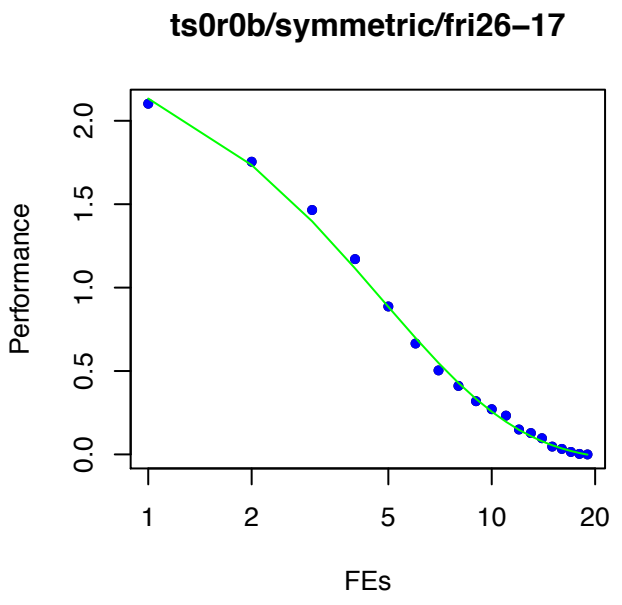
500
FEs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Performance
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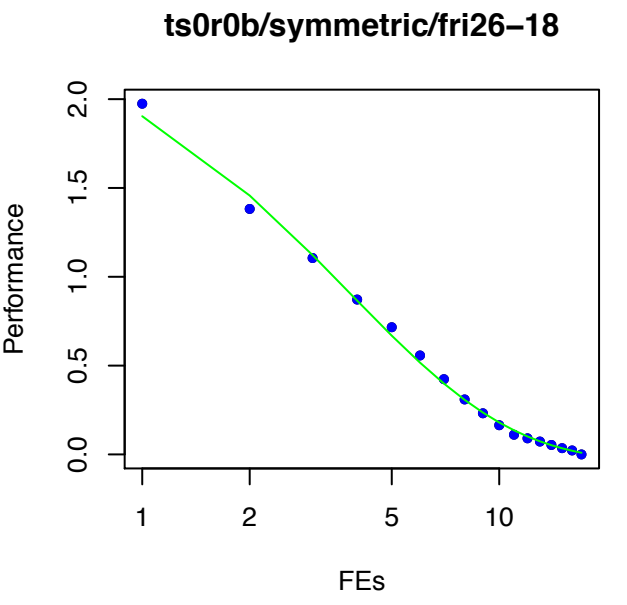
2.0
1
2
5
10
20
FEs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Performance
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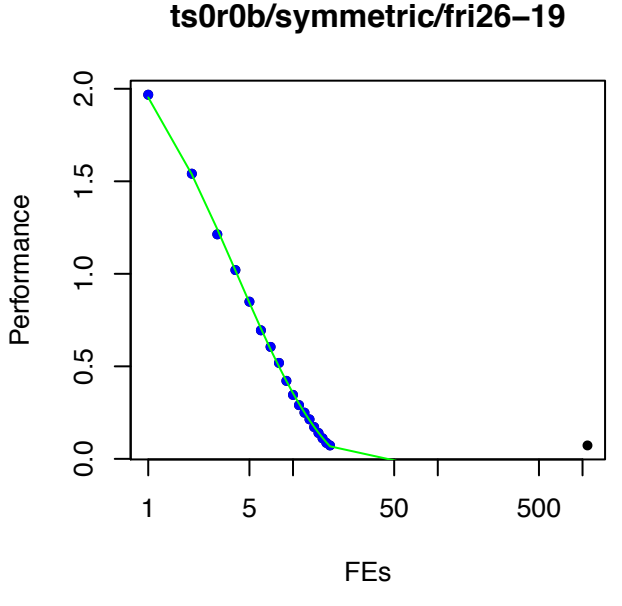
2.0
1
2
5
10
FEs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Performance
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1.5
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1
5
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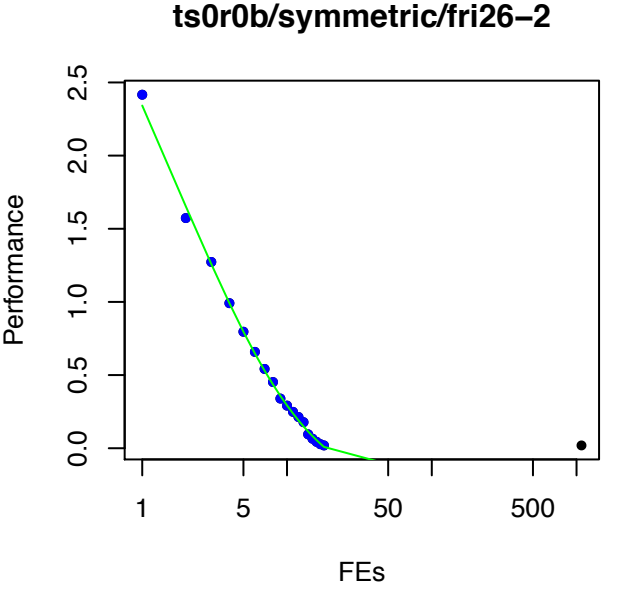
500
FEs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2.0
2.5
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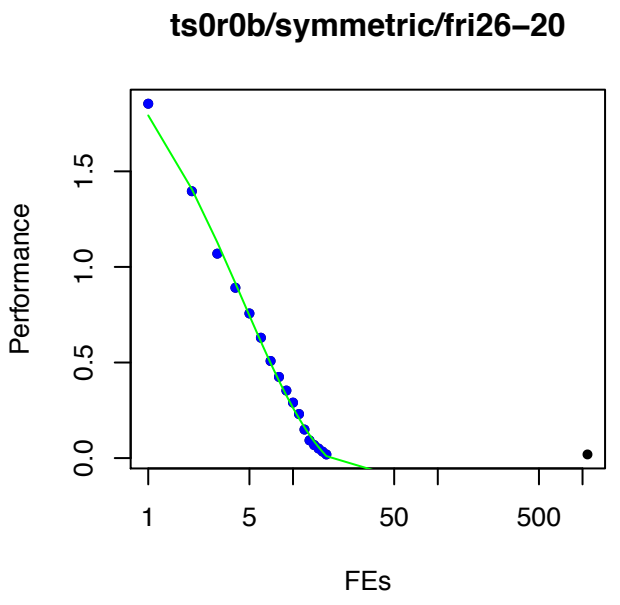
FEs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Performance
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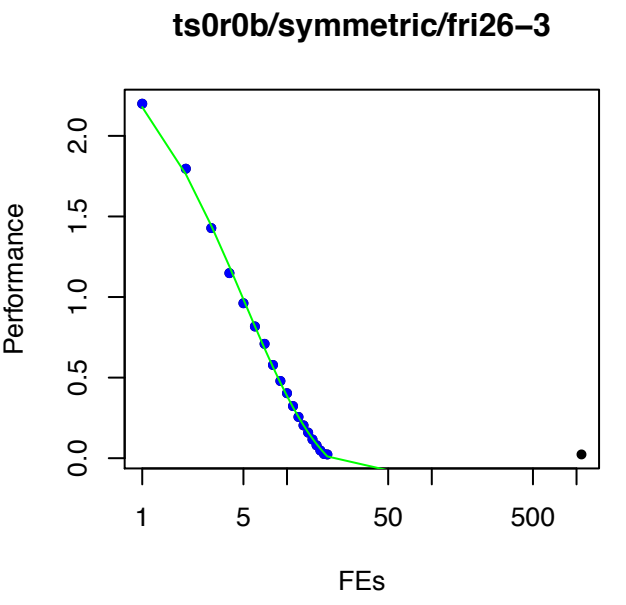
500
FEs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2.0
1
5
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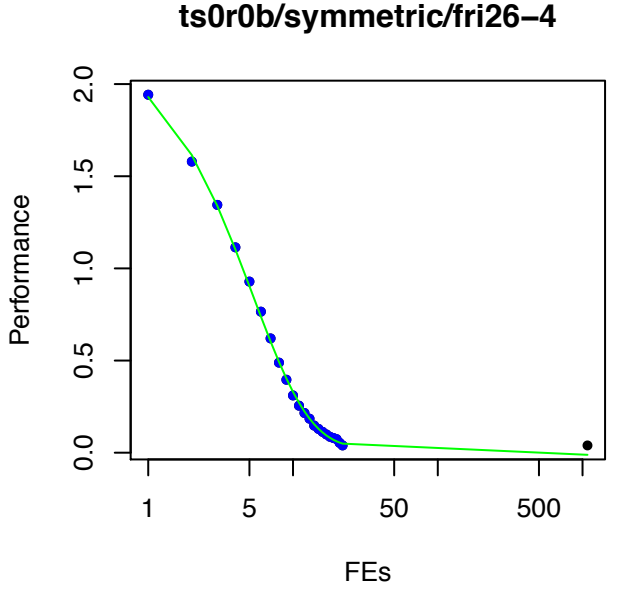
500
FEs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Performance
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2.0
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5
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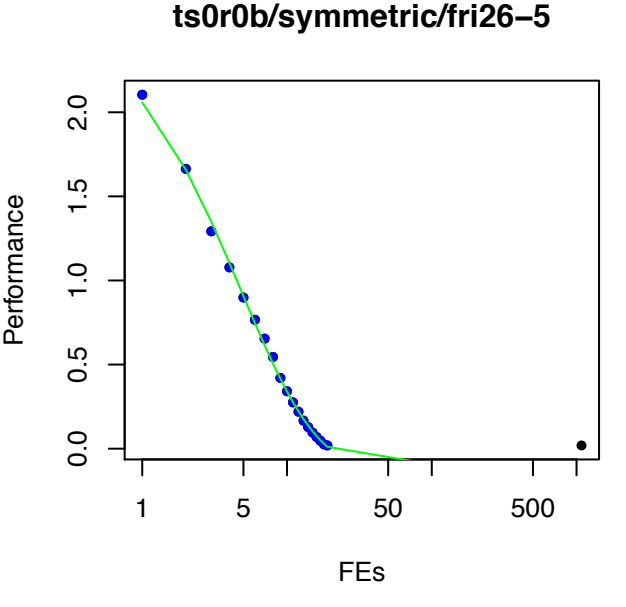
500
FEs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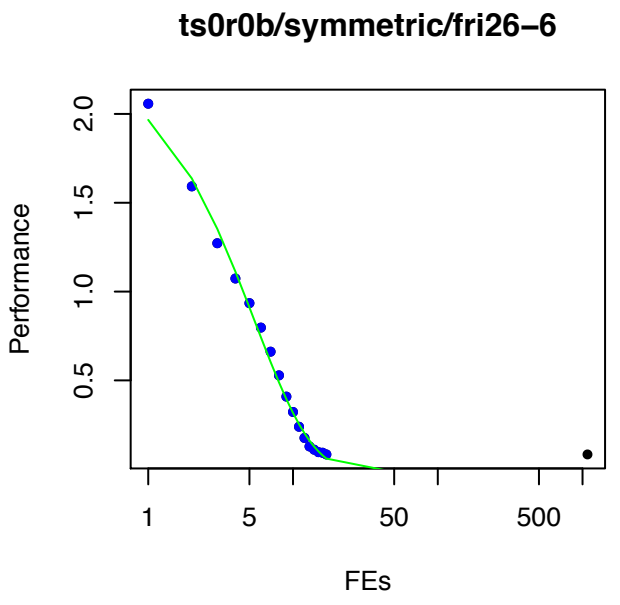
5
50
500
FEs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Performance
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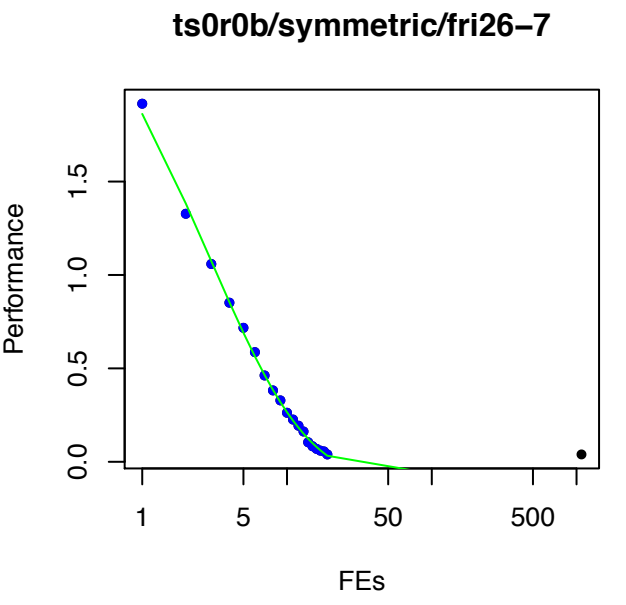
500
FEs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Performance
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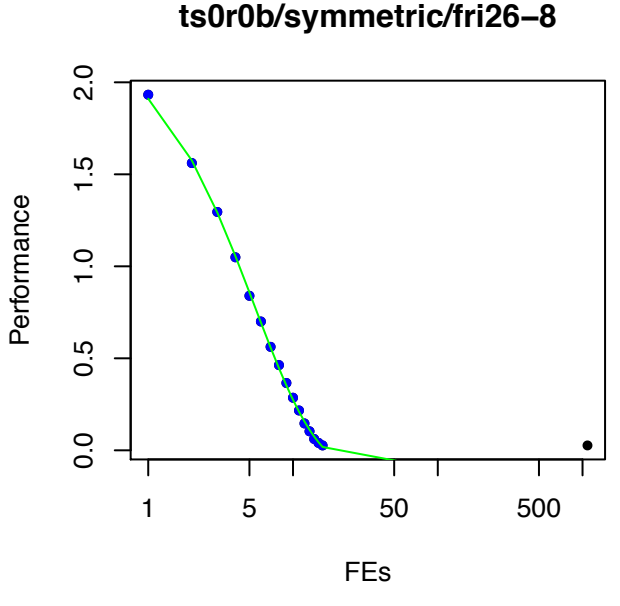
1.0
1.5
1
5
50
500
FEs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Performance
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1.5
2.0
1
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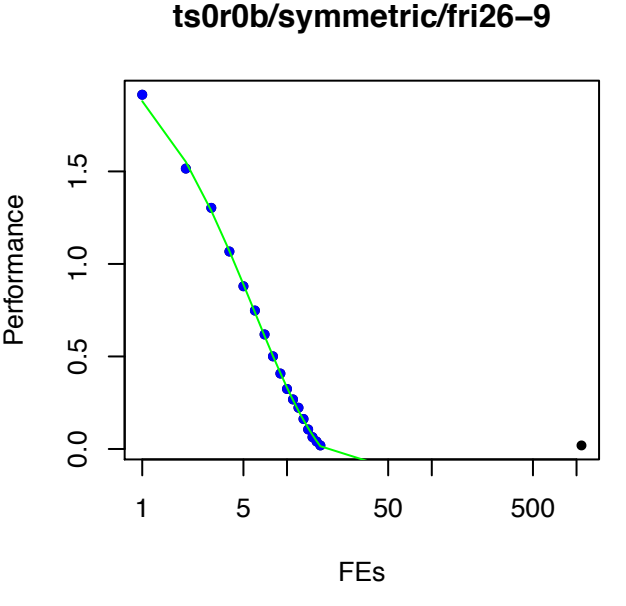
50
500
FEs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Performance
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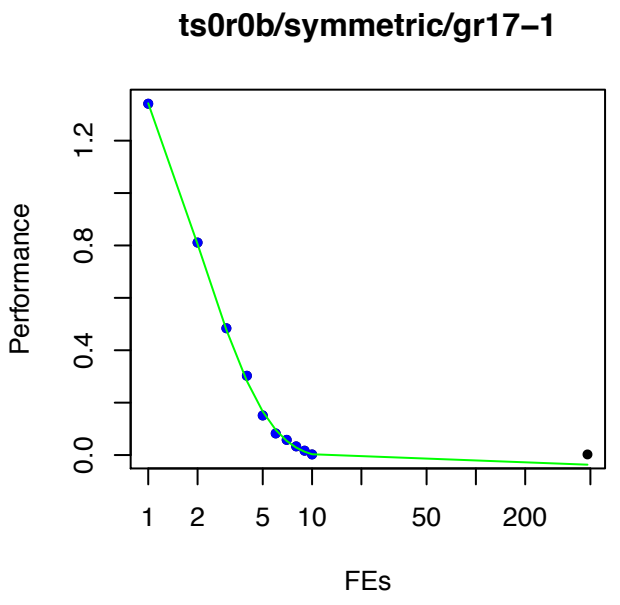
1
5
50
500
FEs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Performance
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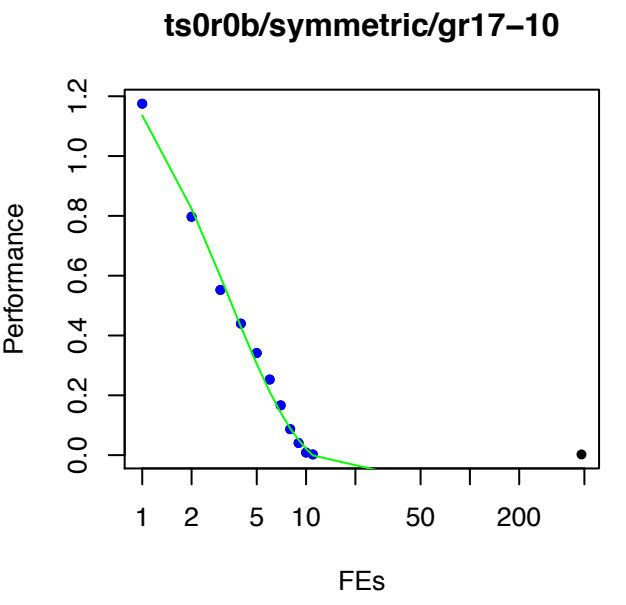
1
2
5
10
50
200
FEs


ts0r0b/symmetric/gr17−10
Performance
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0.8
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1
2
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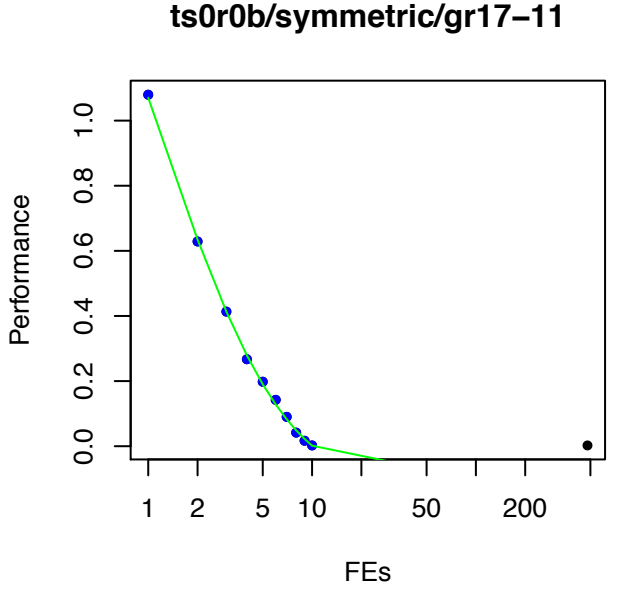
10
50
200
FEs


ts0r0b/symmetric/gr17−11
Performance
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0.8
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1
2
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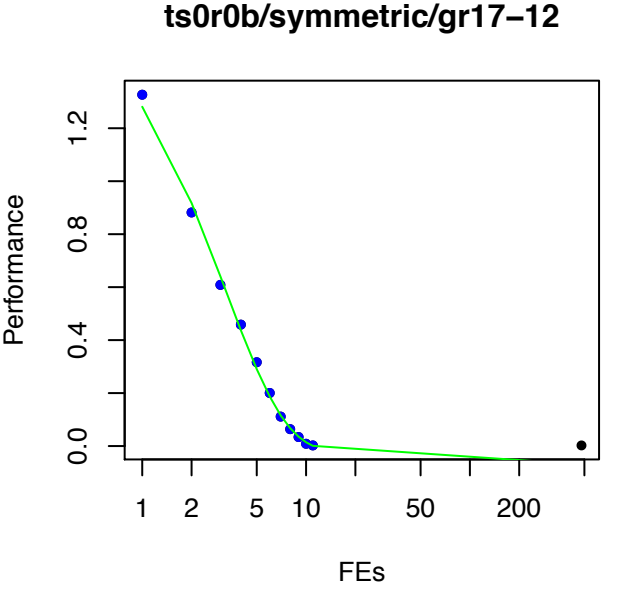
10
50
200
FEs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Performance
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0.8
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2
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10
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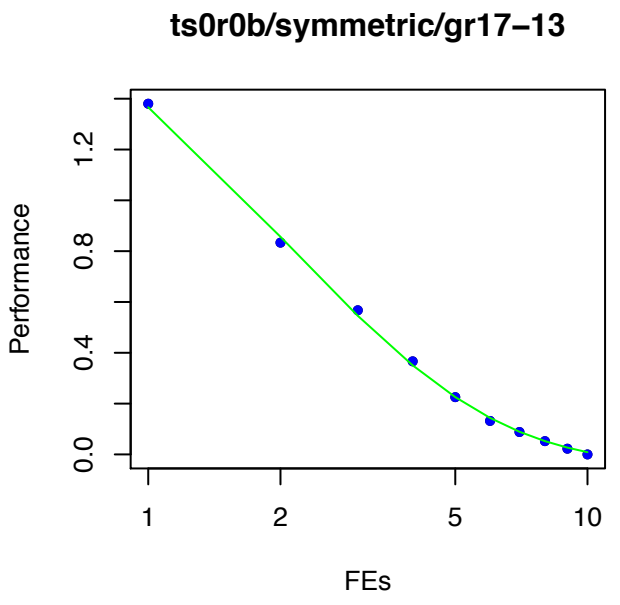
200
FEs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Performance
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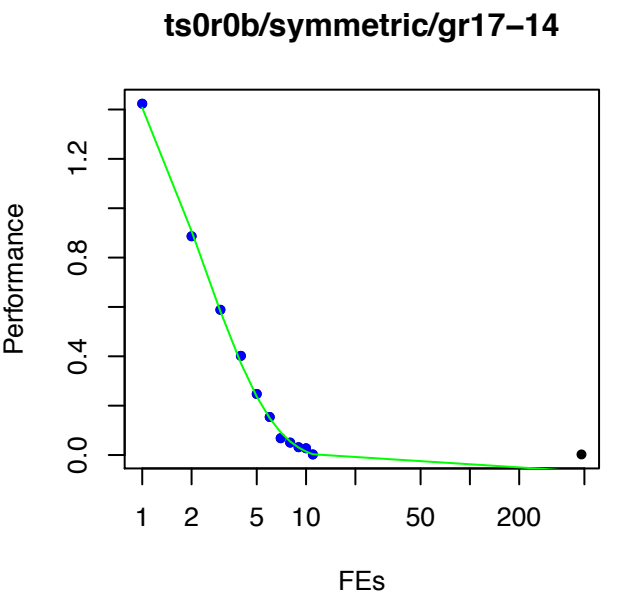
0.8
1.2
1
2
5
10
FEs


ts0r0b/symmetric/gr17−14
Performance
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0.8
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1
2
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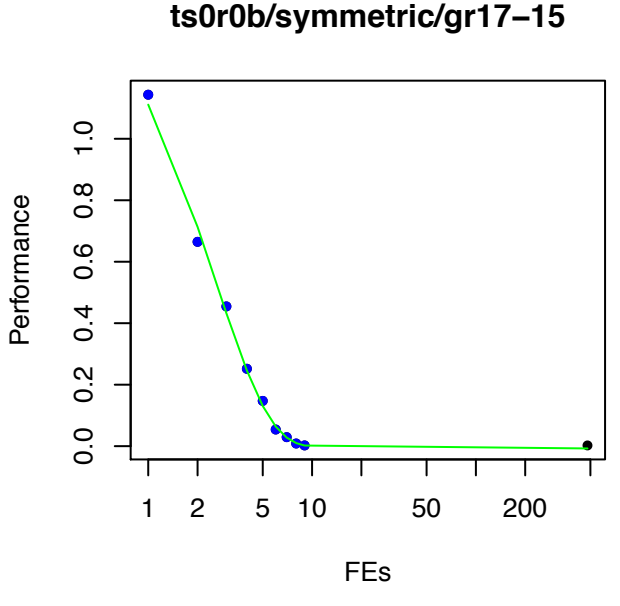
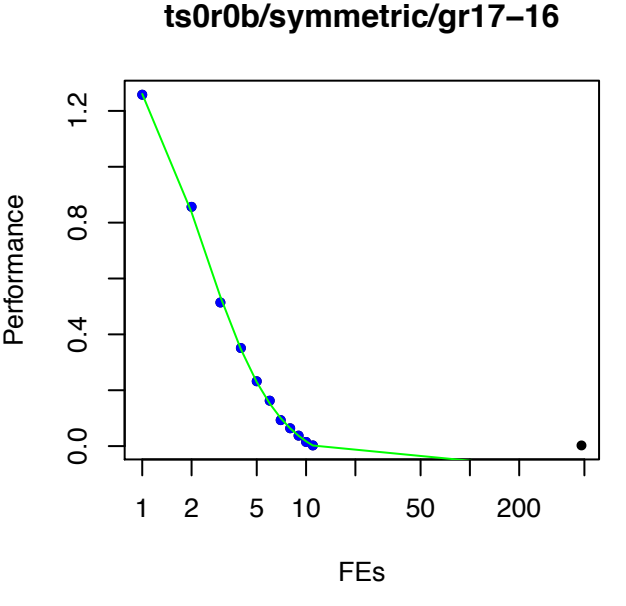
200
FEs


ts0r0b/symmetric/gr17−15
Performance
0.0
0.2
0.4
0.6
0.8
1.0
1
2
5
10
50
200
FEs


ts0r0b/symmetric/gr17−16
Performance
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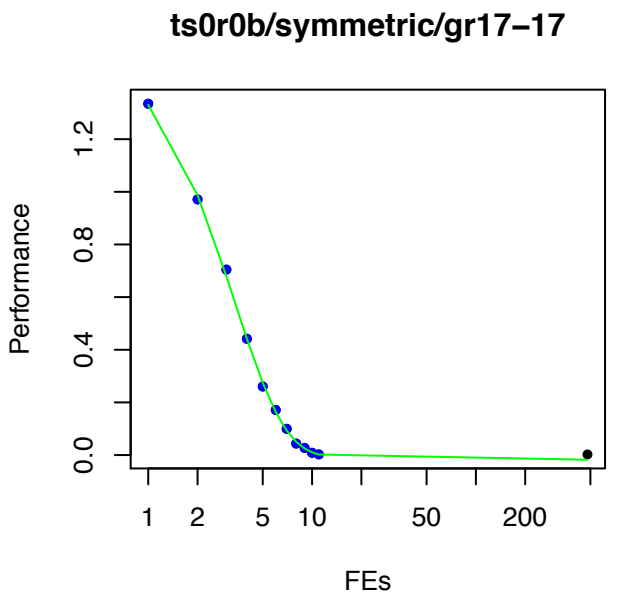
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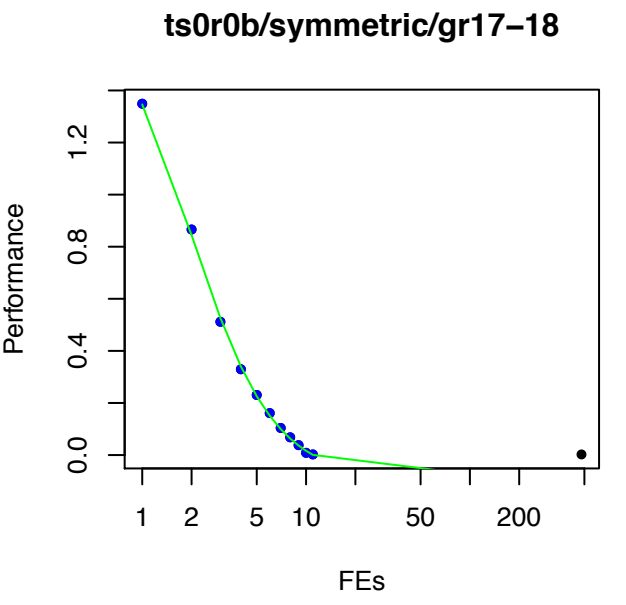
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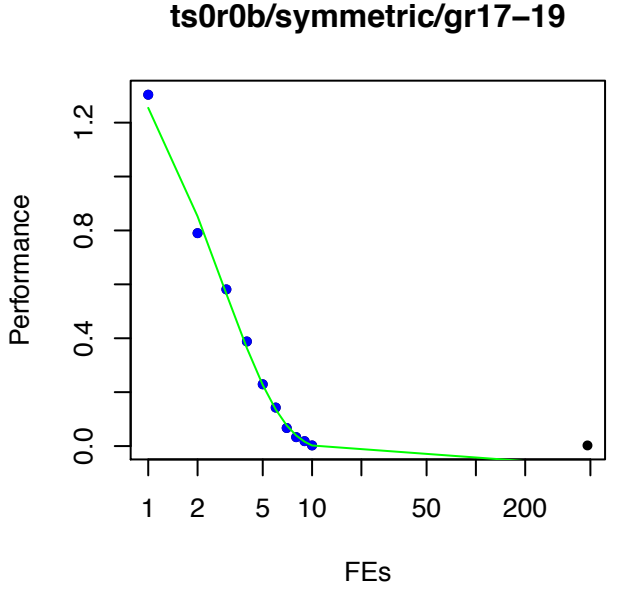
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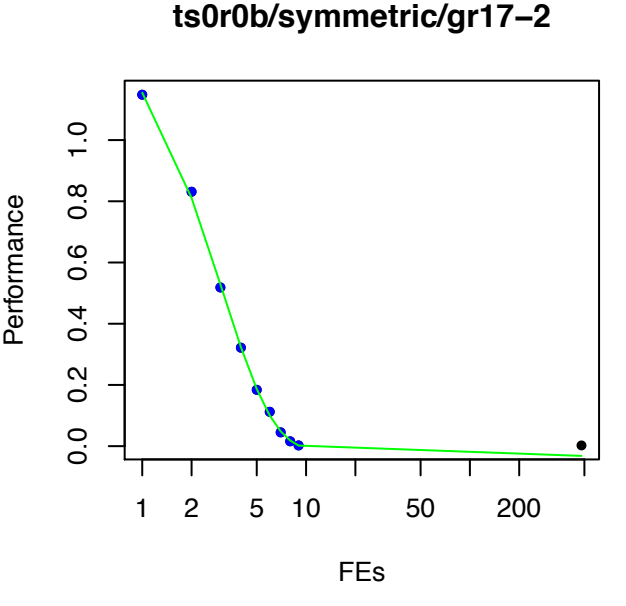
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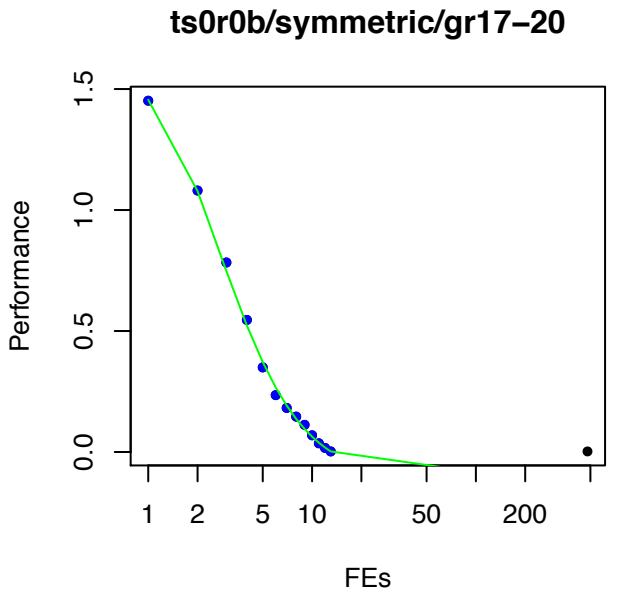
FEs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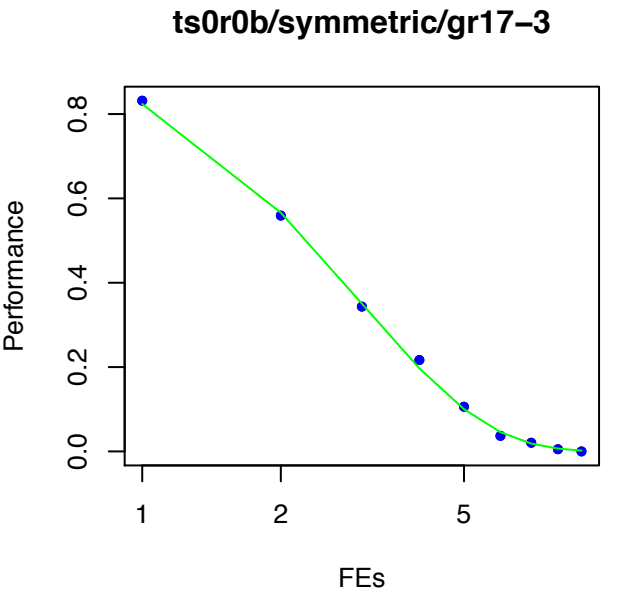
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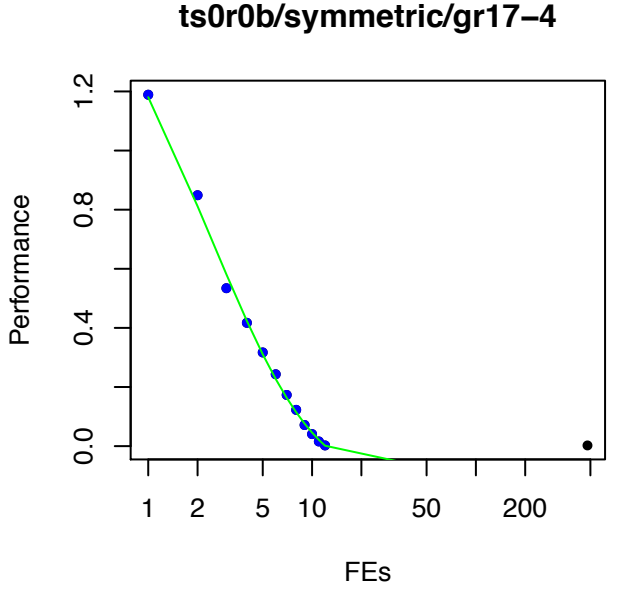
FEs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Performance
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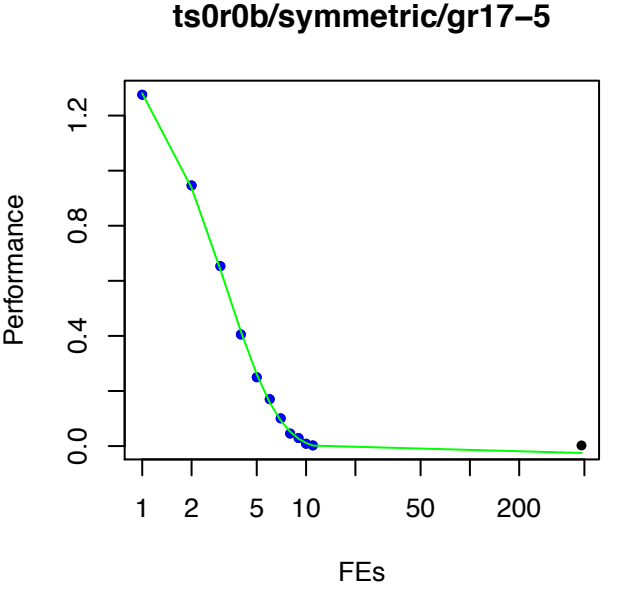
FEs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Performance
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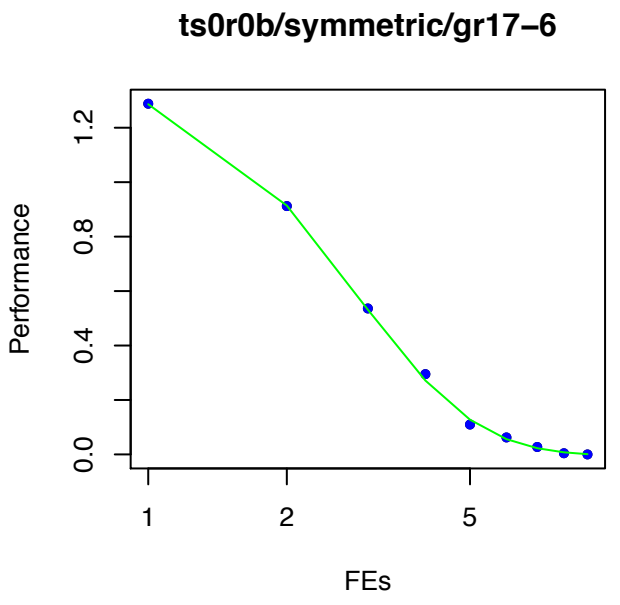
200
FEs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Performance
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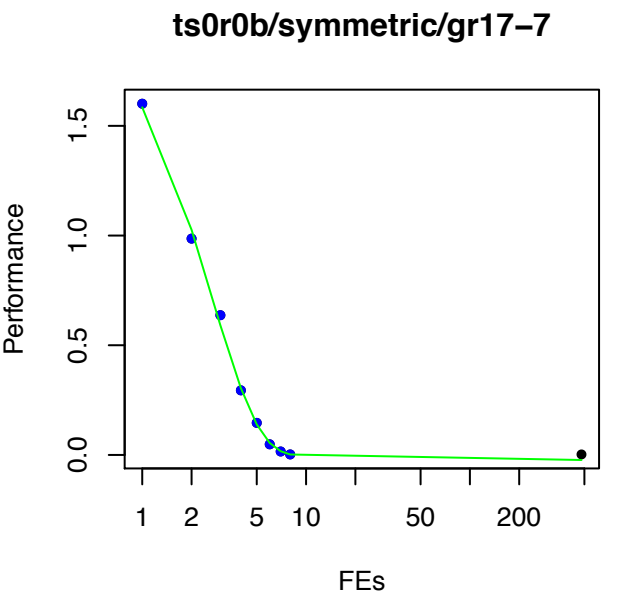
FEs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Performance
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1
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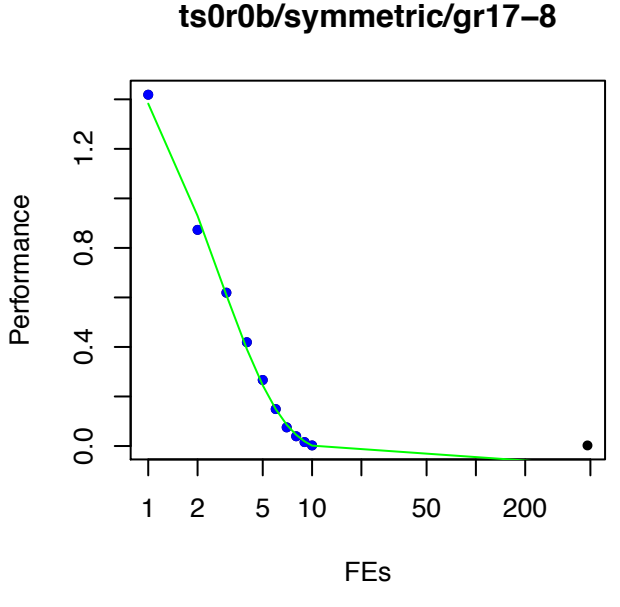
200
FEs


ts0r0b/symmetric/gr17−8
Performance
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0.8
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1
2
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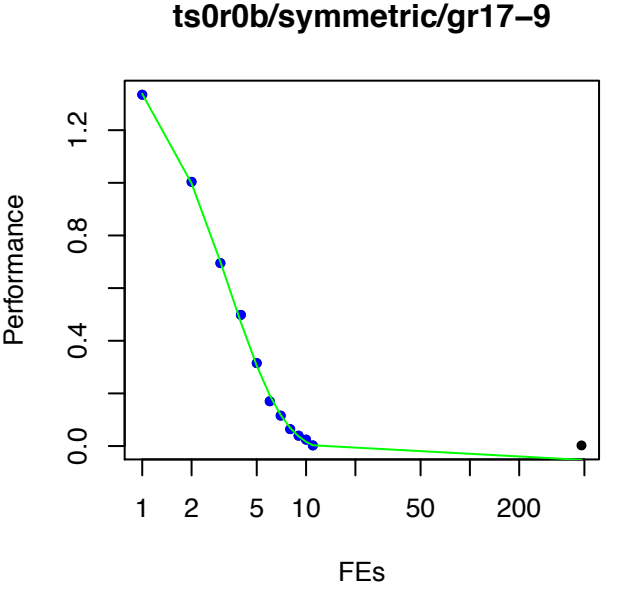
10
50
200
FEs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Performance
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0.8
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2
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10
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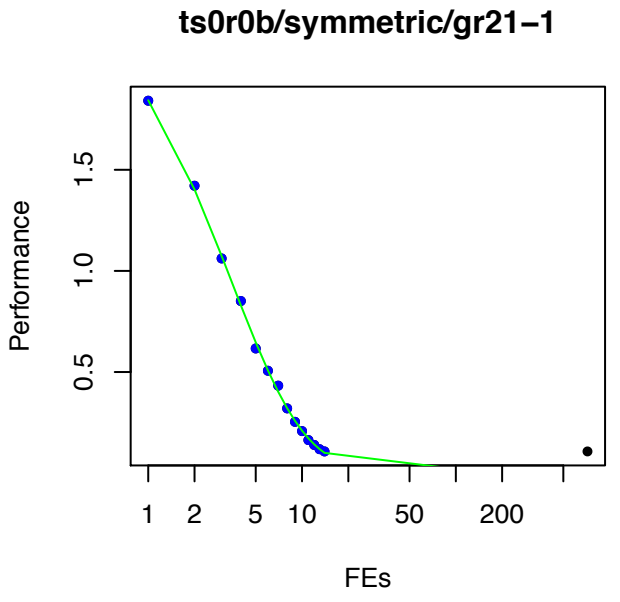
200
FEs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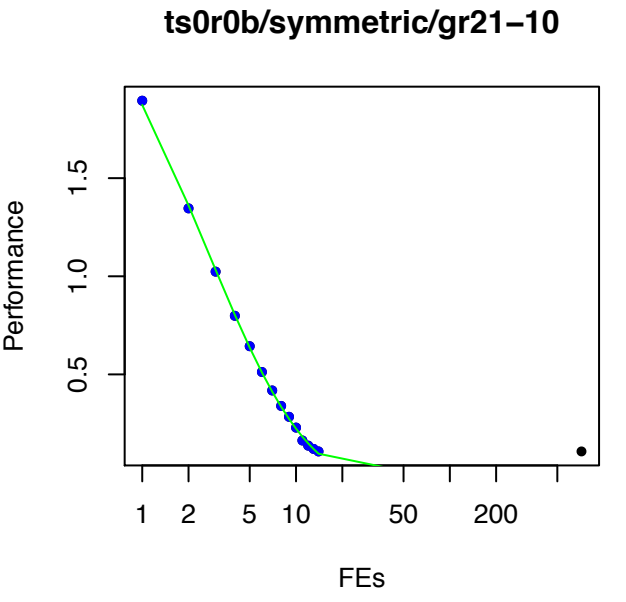
FEs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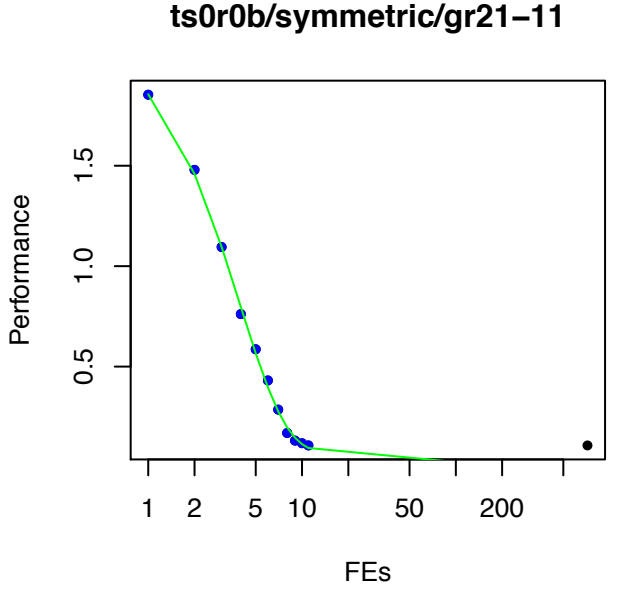
200
FEs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Performance
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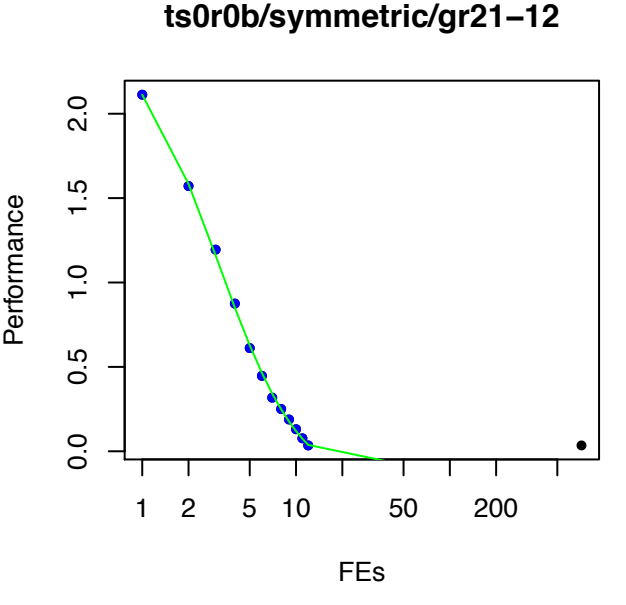
200
FEs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2
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10
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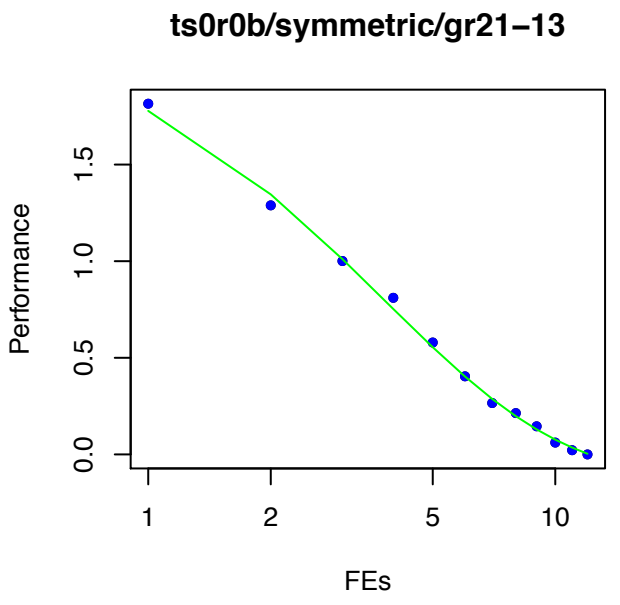
200
FEs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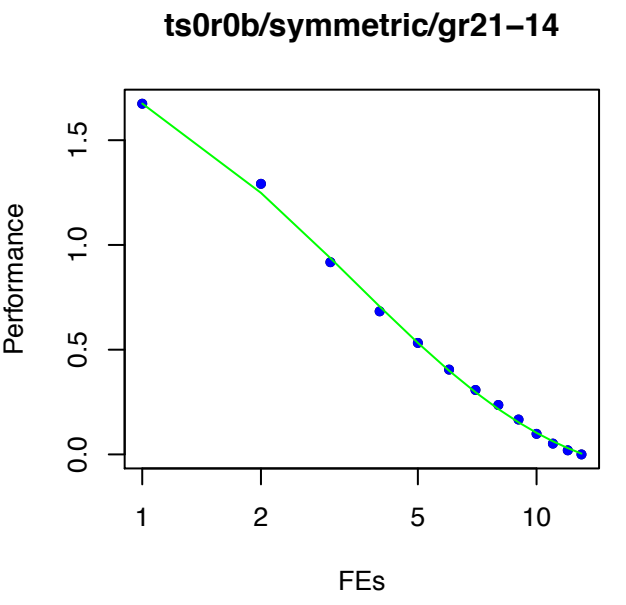
2
5
10
FEs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Performance
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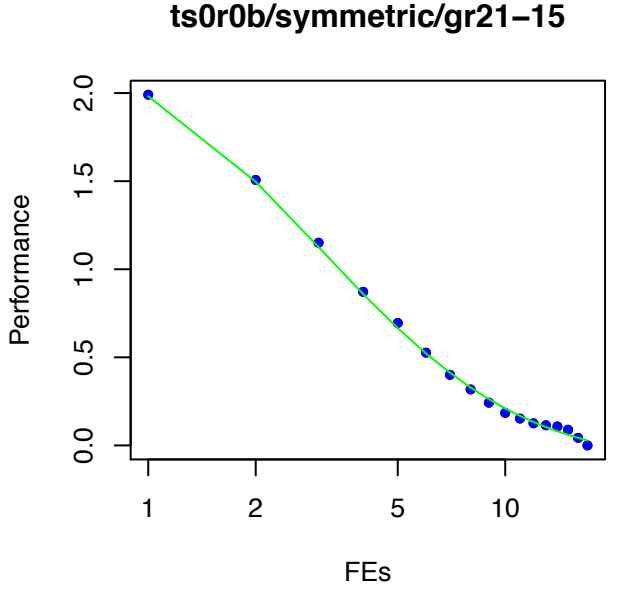
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2
5
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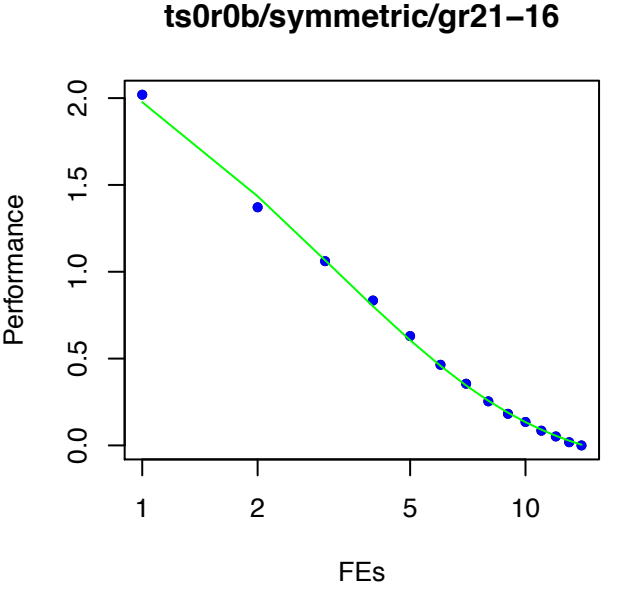
FEs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Performance
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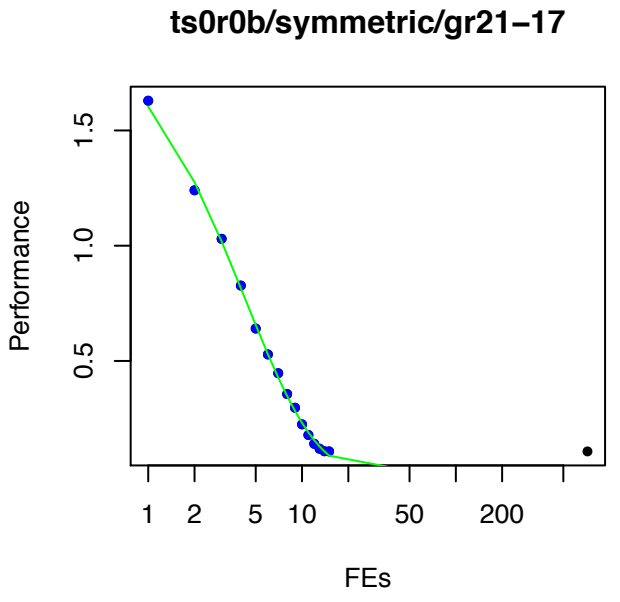
2
5
10
FEs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Performance
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1
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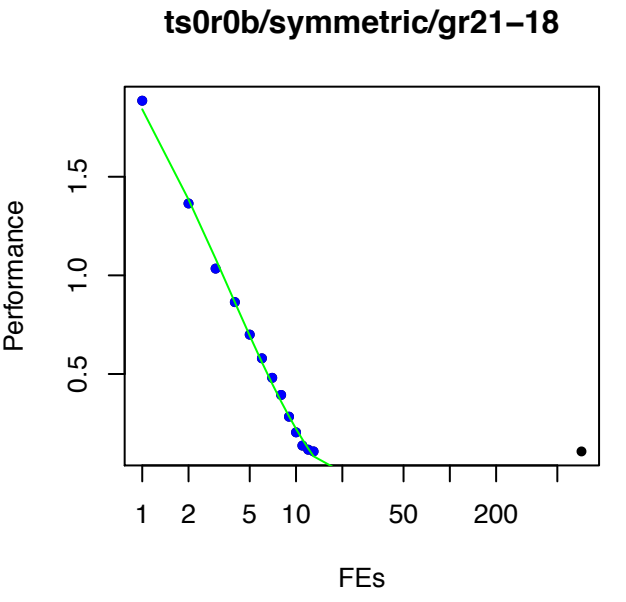
200
FEs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Performance
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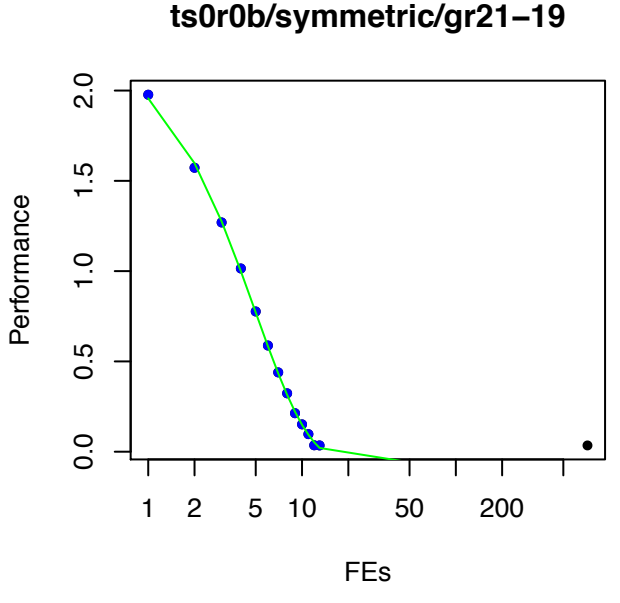
FEs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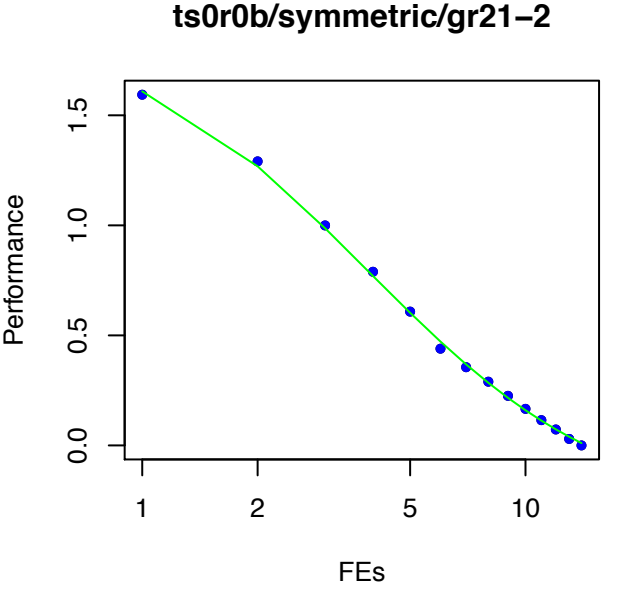
FEs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Performance
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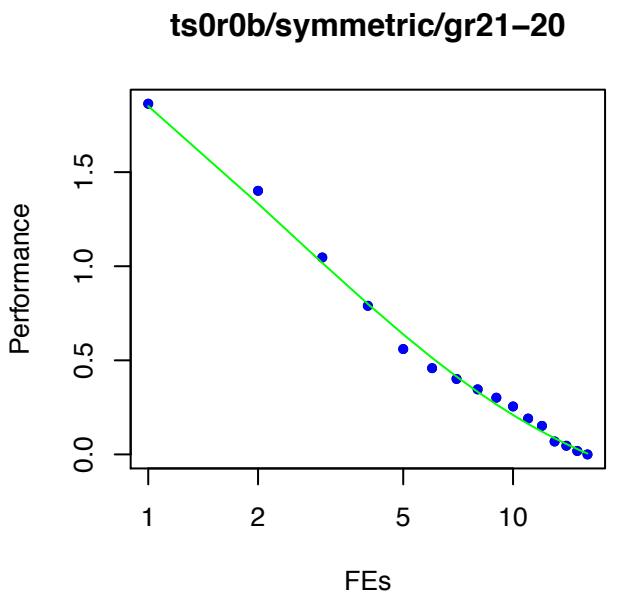
FEs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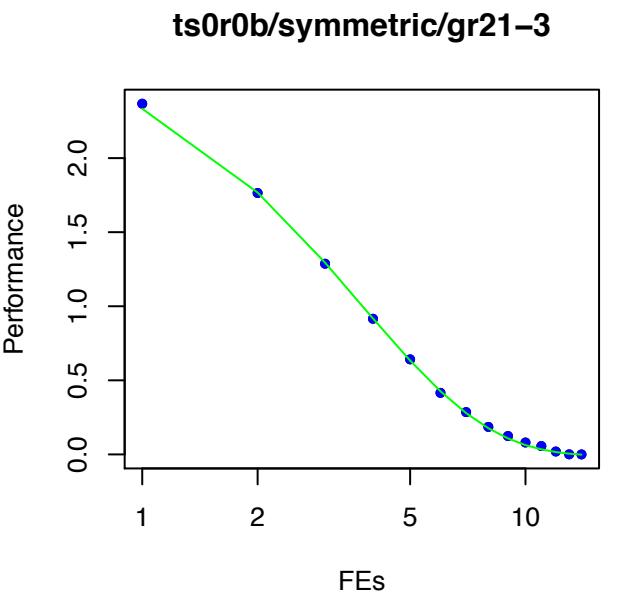
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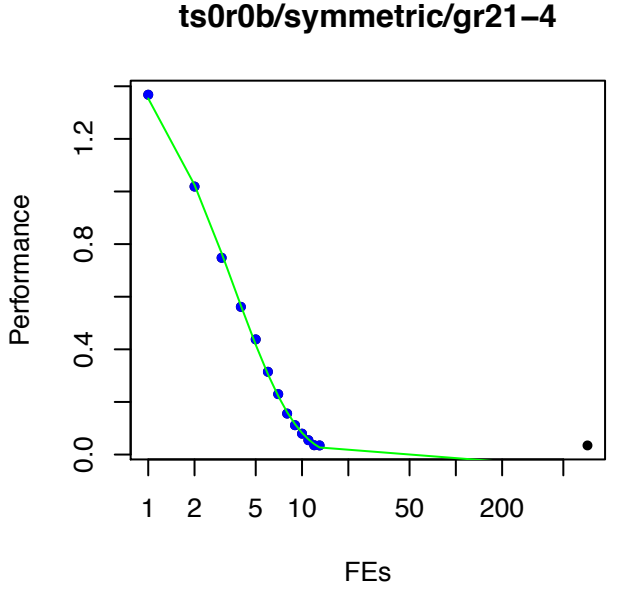
10
FEs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Performance
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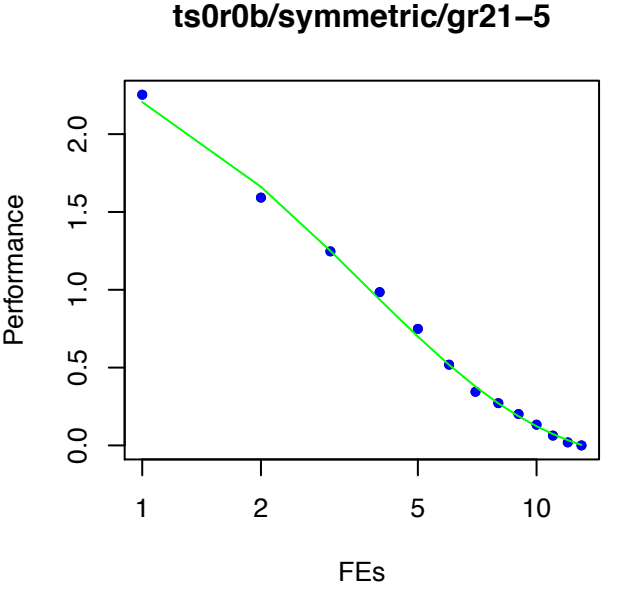
200
FEs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Performance
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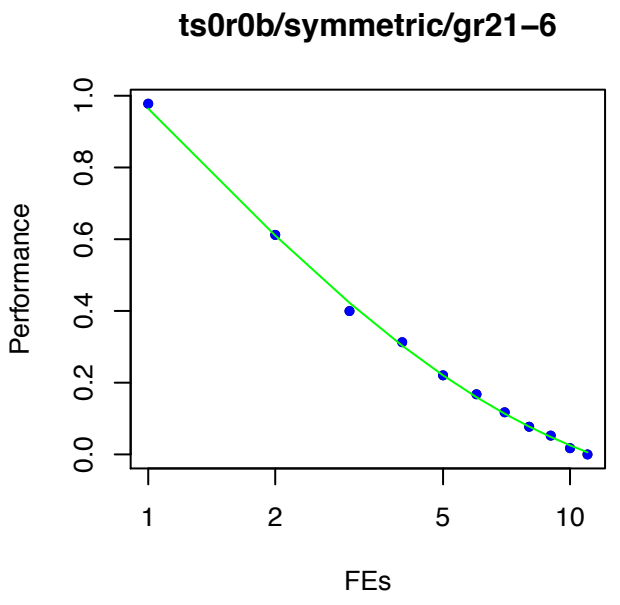
10
FEs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Performance
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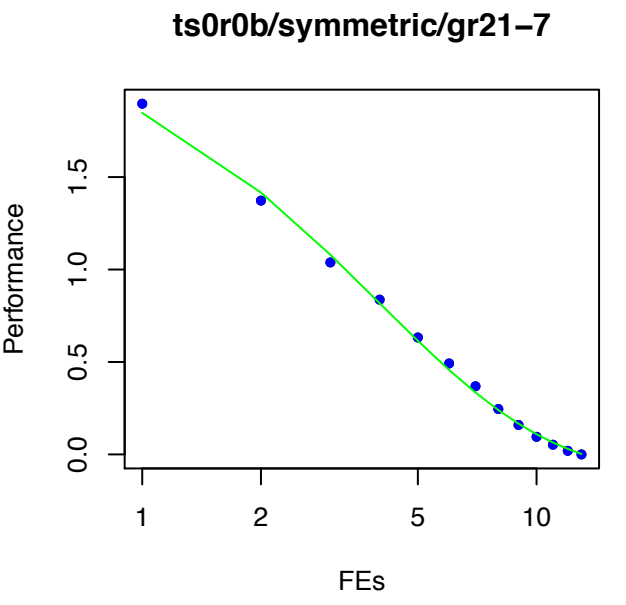
10
FEs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Performance
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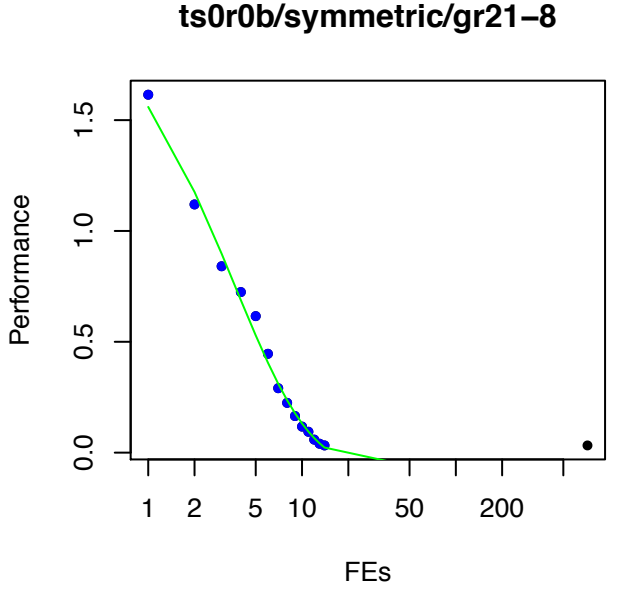
FEs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Performance
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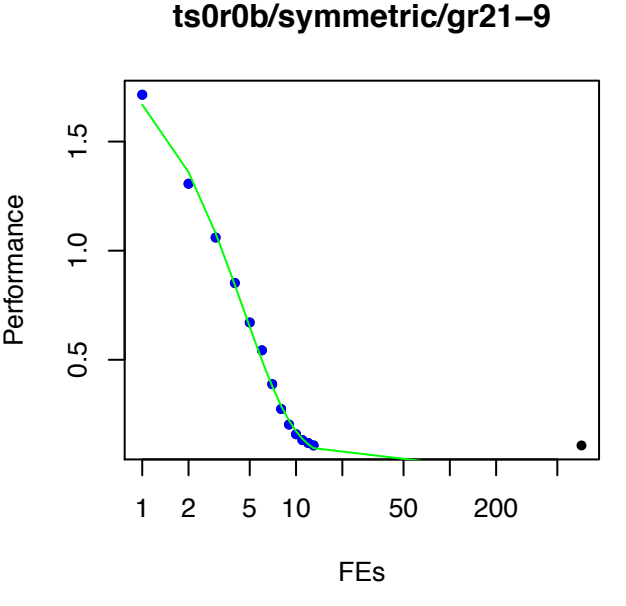
200
FEs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Performance
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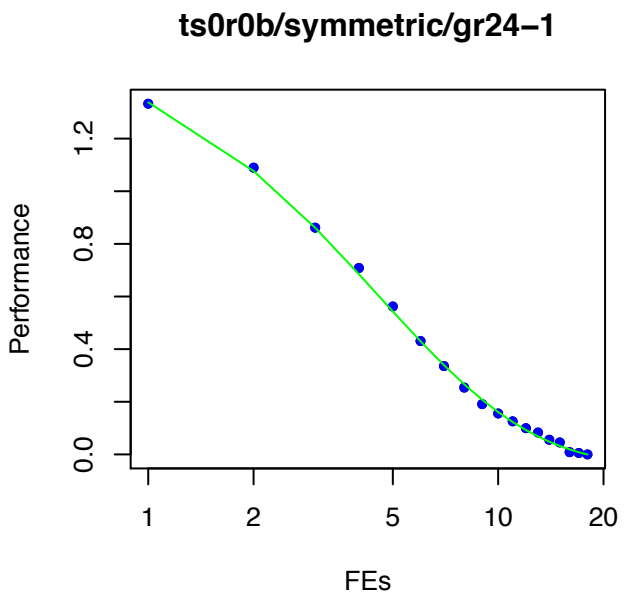
200
FEs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Performance
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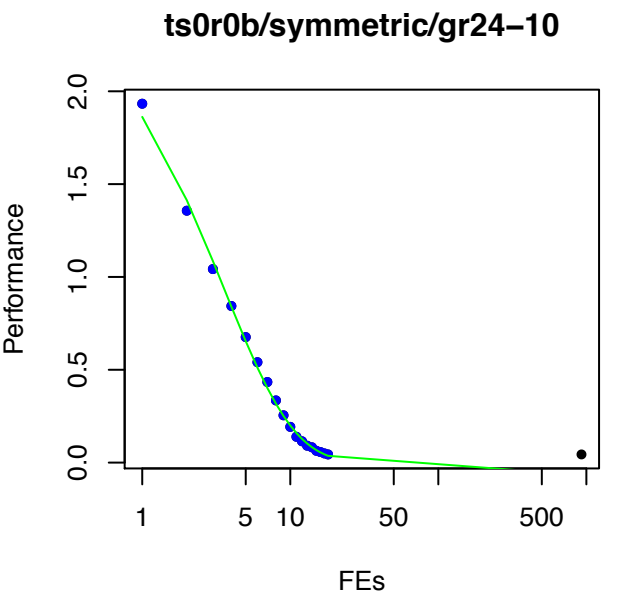
10
20
FEs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Performance
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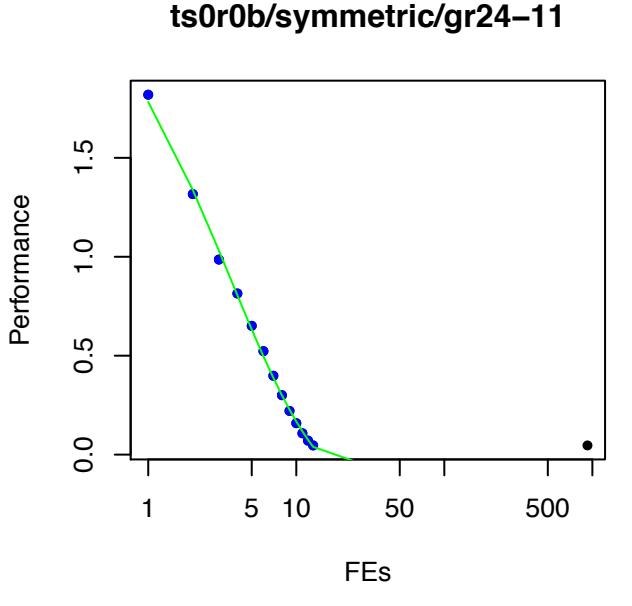
10
50
500
FEs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Performance
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50
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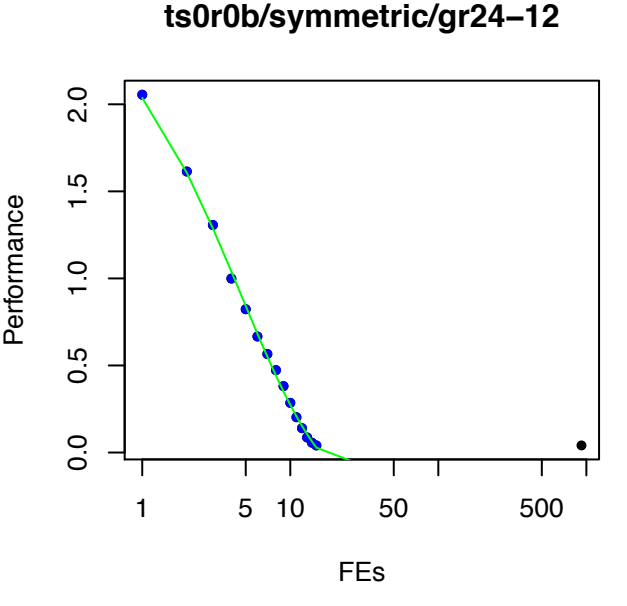
FEs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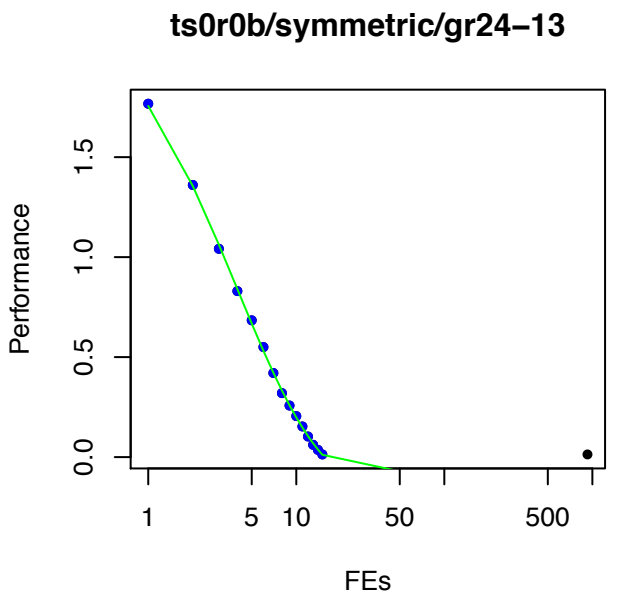
FEs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Performance
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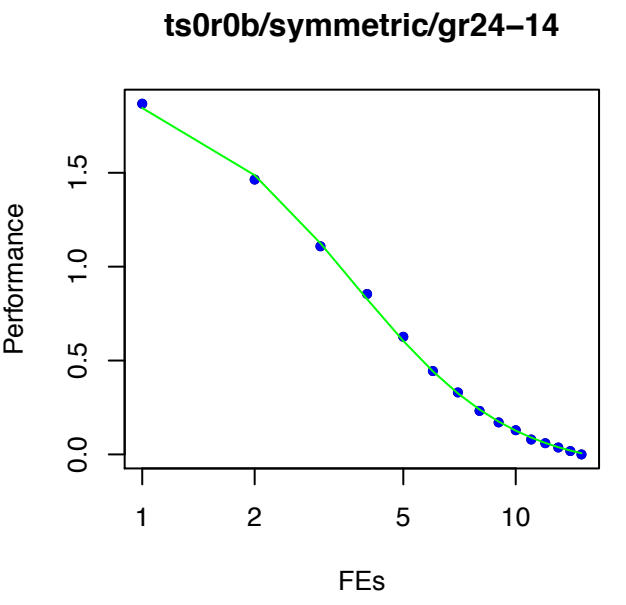
FEs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Performance
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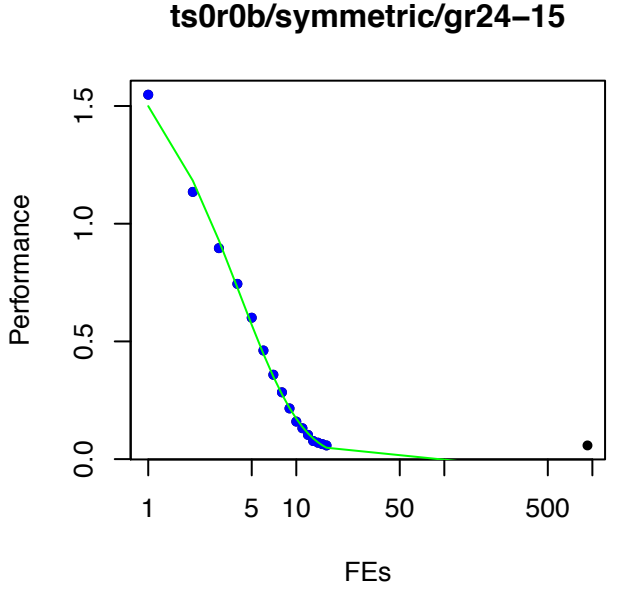
FEs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Performance
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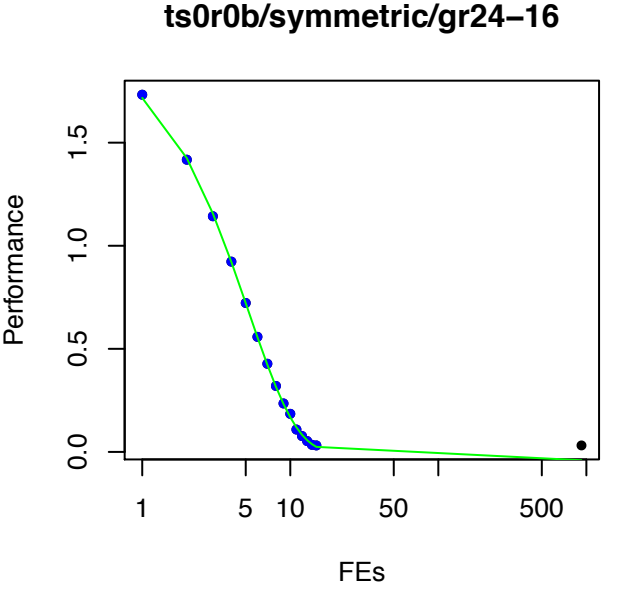
FEs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Performance
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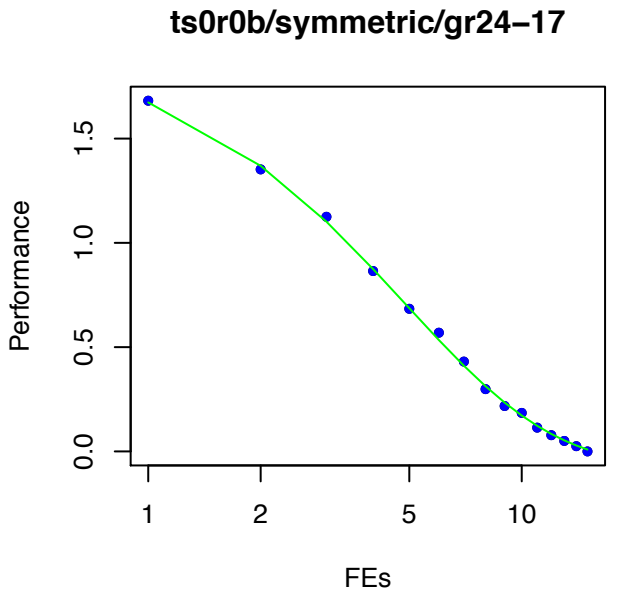
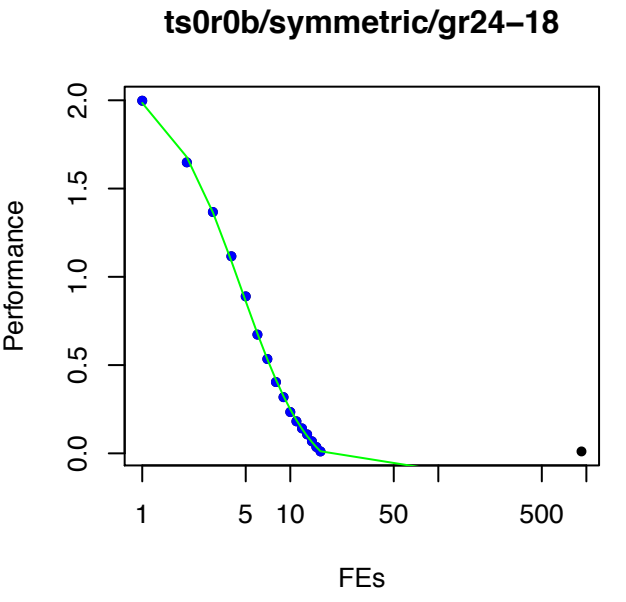
500
FEs


ts0r0b/symmetric/gr24−17
Performance
0.0
0.5
1.0
1.5
1
2
5
10
FEs


ts0r0b/symmetric/gr24−18
Performance
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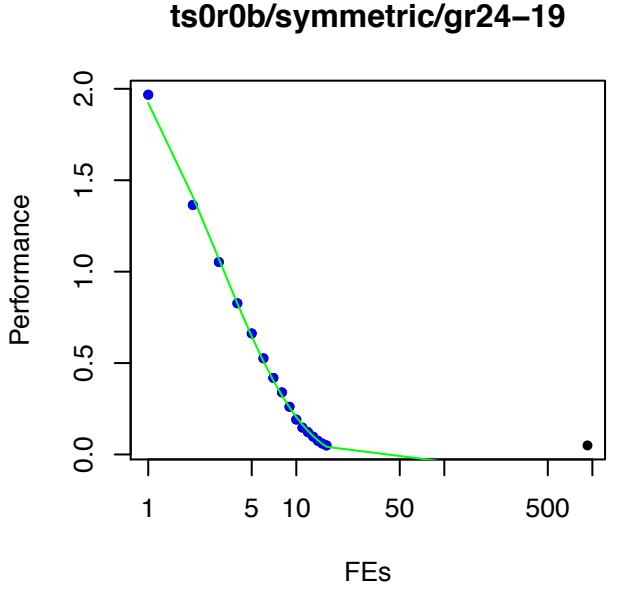
1.0
1.5
2.0
1
5
10
50
500
FEs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Performance
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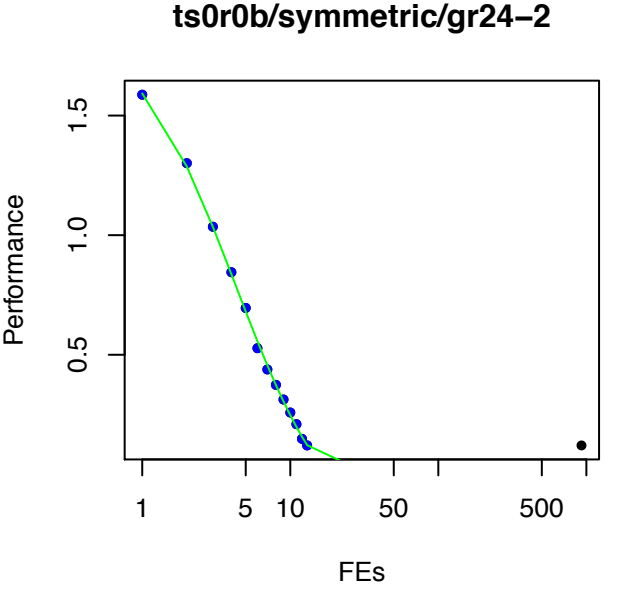
0.5
1.0
1.5
2.0
1
5
10
50
500
FEs


ts0r0b/symmetric/gr24−2
Performance
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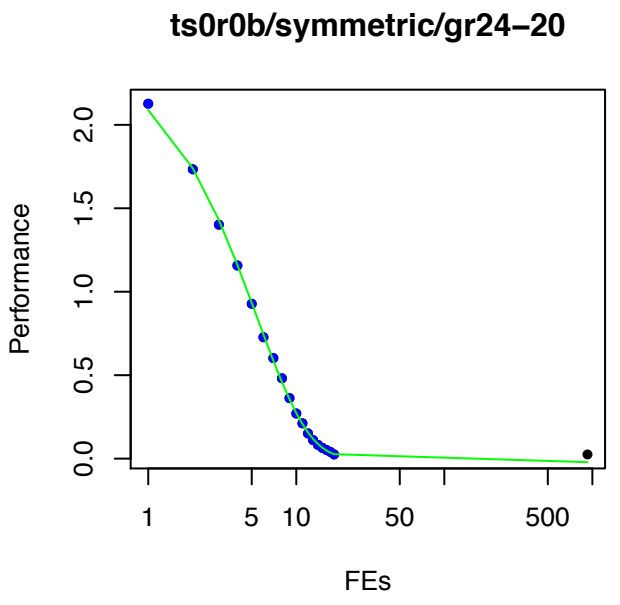
1.0
1.5
1
5
10
50
500
FEs


ts0r0b/symmetric/gr24−20
Performance
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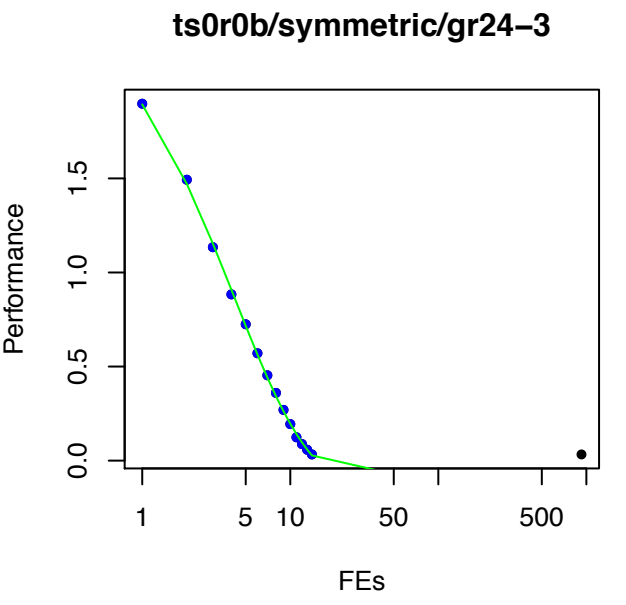
0.5
1.0
1.5
2.0
1
5
10
50
500
FEs


ts0r0b/symmetric/gr24−3
Performance
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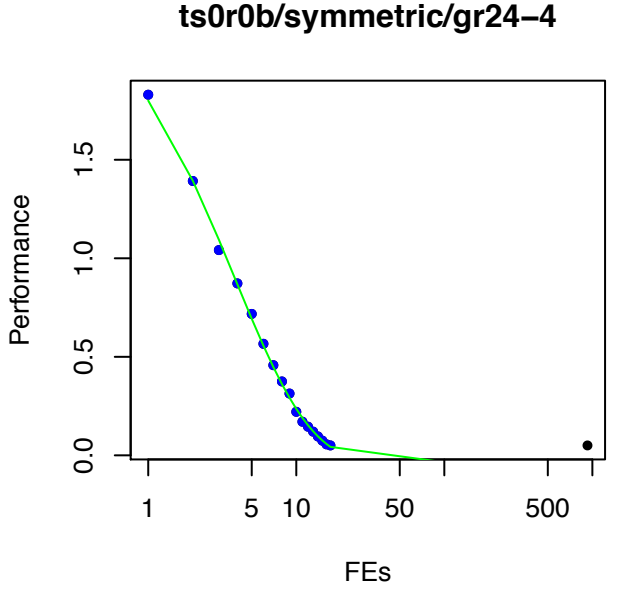
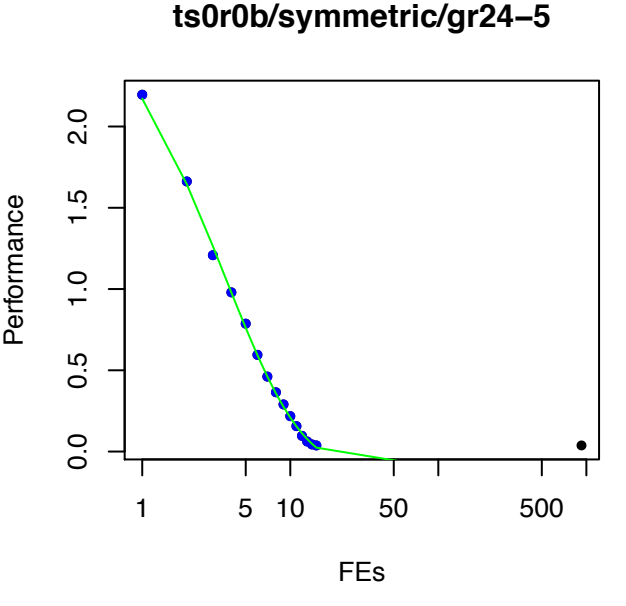
0.5
1.0
1.5
1
5
10
50
500
FEs


ts0r0b/symmetric/gr24−4
Performance
0.0
0.5
1.0
1.5
1
5
10
50
500
FEs


ts0r0b/symmetric/gr24−5
Performance
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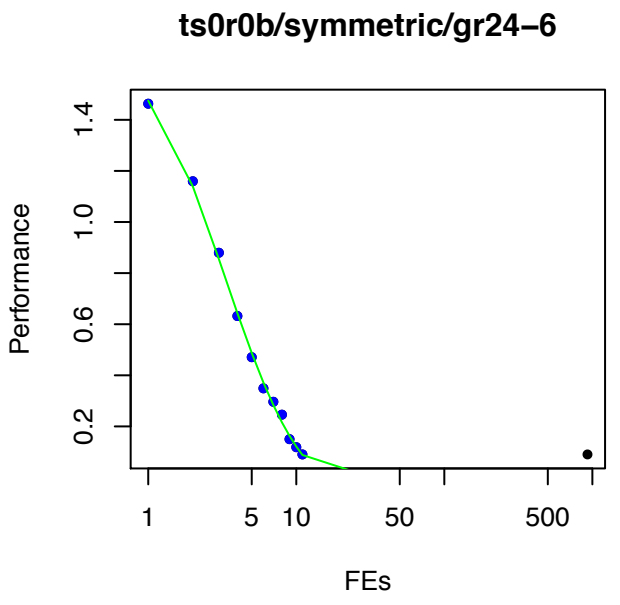
0.5
1.0
1.5
2.0
1
5
10
50
500
FEs


ts0r0b/symmetric/gr24−6
Performance
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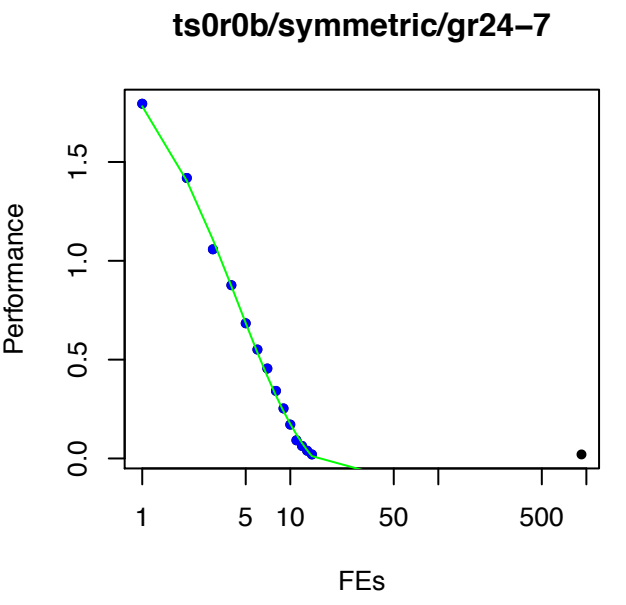
0.6
1.0
1.4
1
5
10
50
500
FEs


ts0r0b/symmetric/gr24−7
Performance
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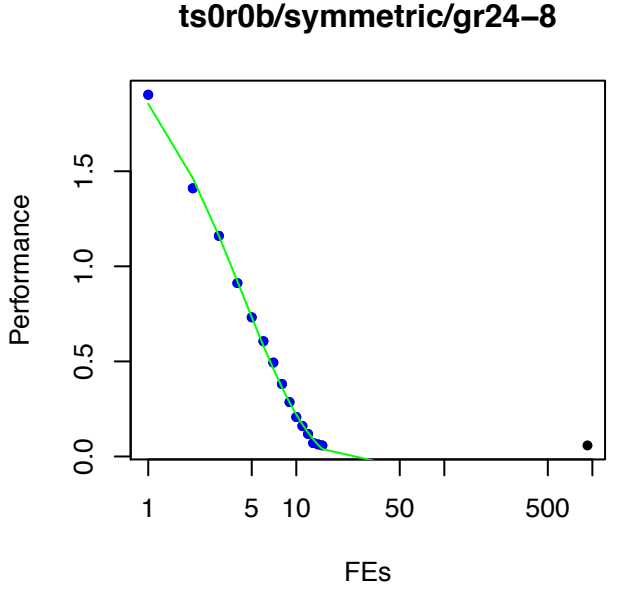
0.5
1.0
1.5
1
5
10
50
500
FEs


ts0r0b/symmetric/gr24−8
Performance
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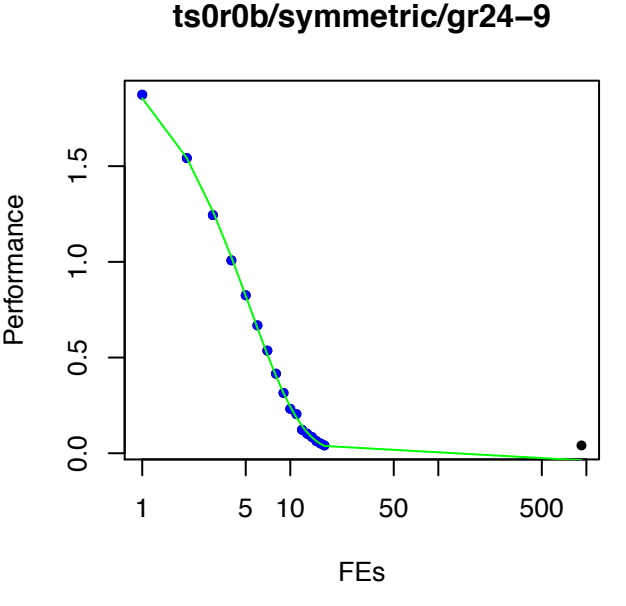
0.5
1.0
1.5
1
5
10
50
500
FEs


ts0r0b/symmetric/gr24−9
Performance
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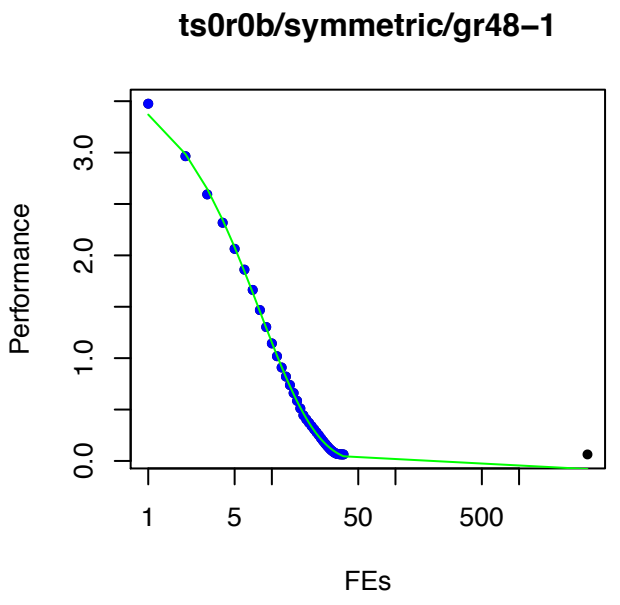
0.5
1.0
1.5
1
5
10
50
500
FEs


ts0r0b/symmetric/gr48−1
Performance
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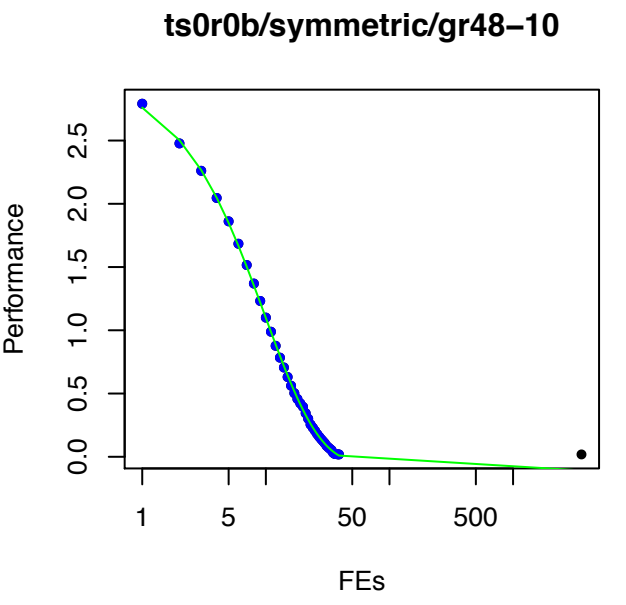
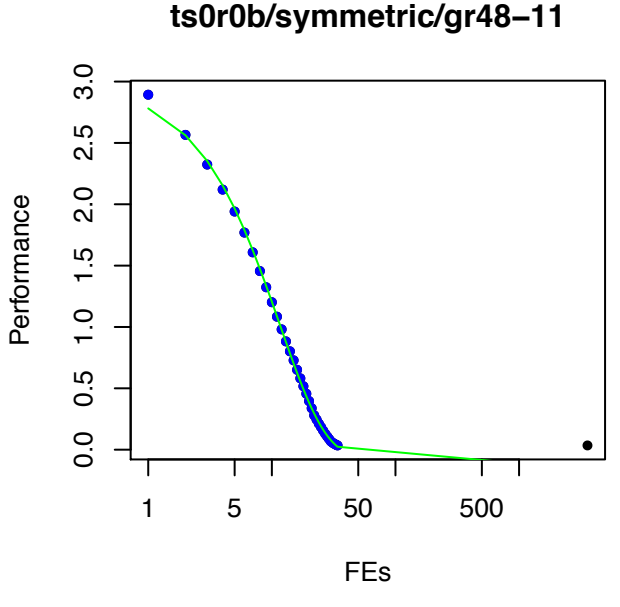
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/gr48−10
Performance
0.0
0.5
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts0r0b/symmetric/gr48−11
Performance
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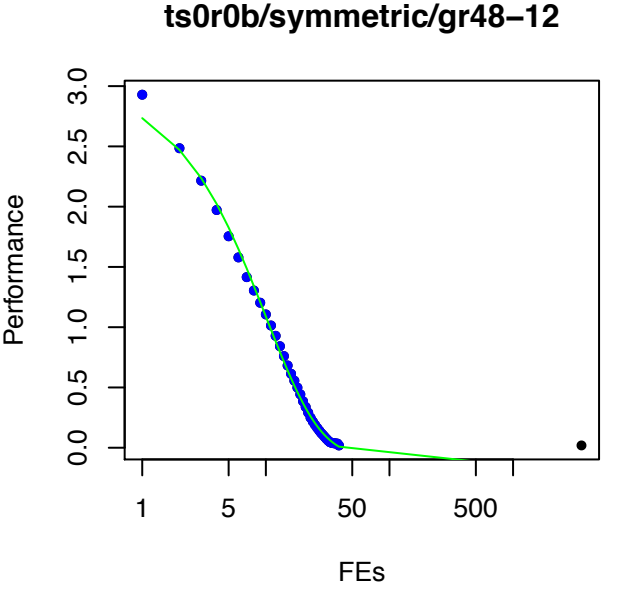
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
500
FEs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Performance
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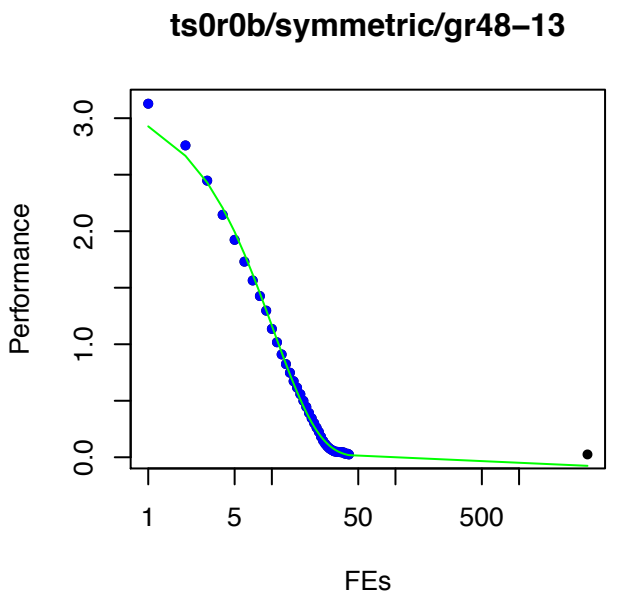
2.0
2.5
3.0
1
5
50
500
FEs


ts0r0b/symmetric/gr48−13
Performance
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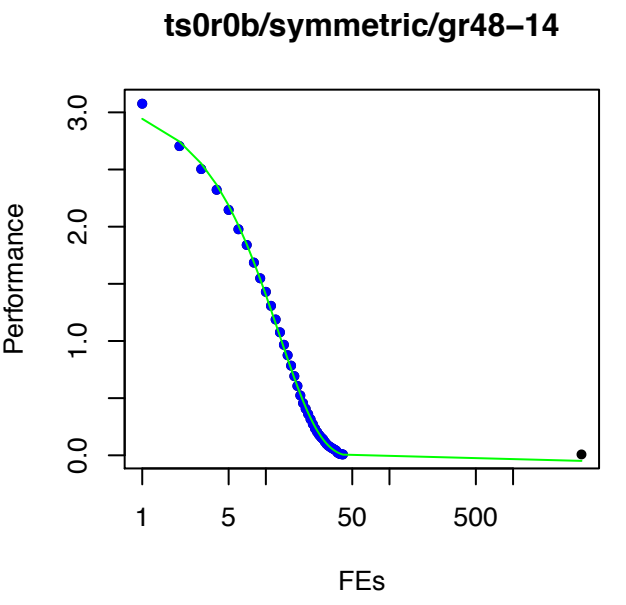
2.0
3.0
1
5
50
500
FEs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Performance
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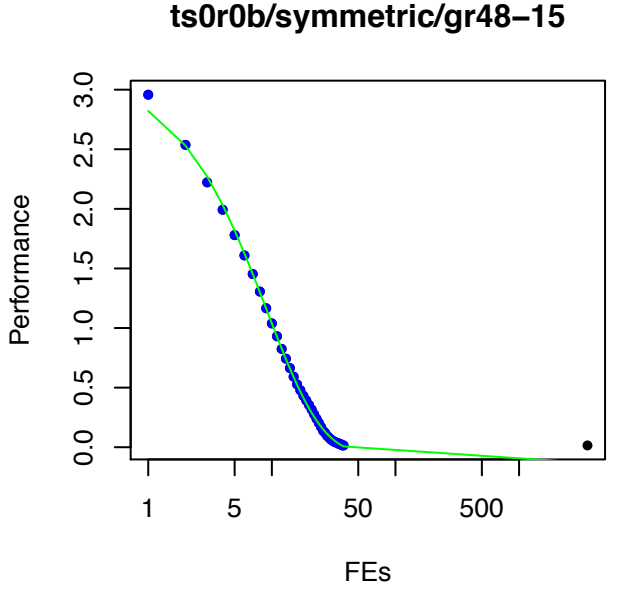
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/gr48−15
Performance
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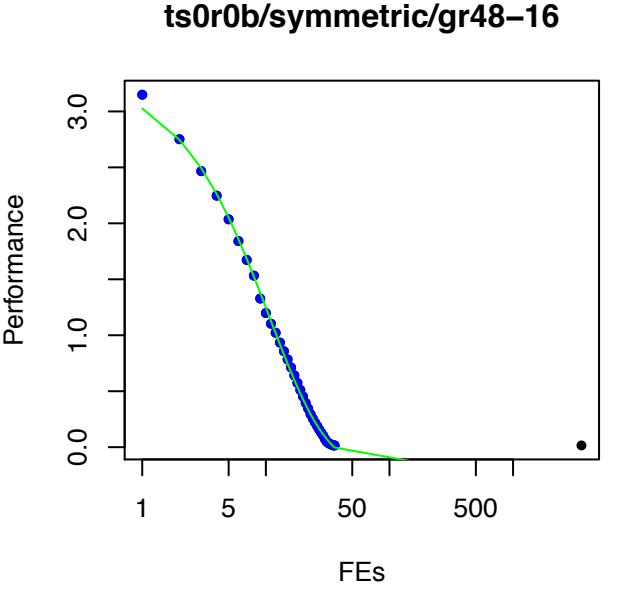
1.5
2.0
2.5
3.0
1
5
50
500
FEs


ts0r0b/symmetric/gr48−16
Performance
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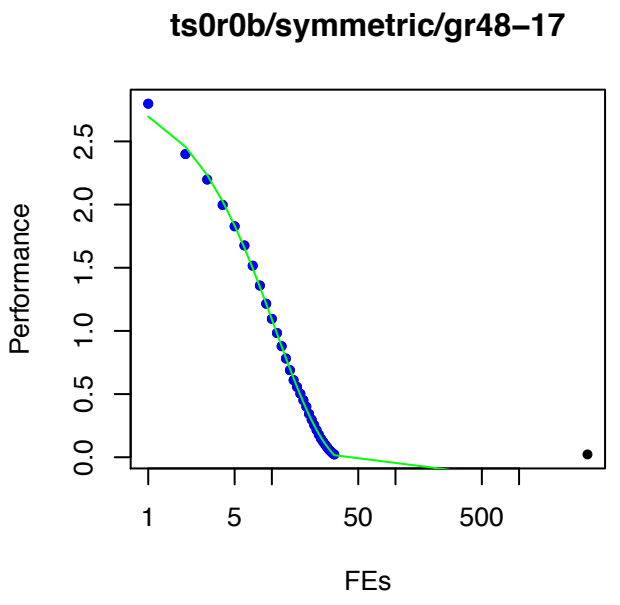
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/gr48−17
Performance
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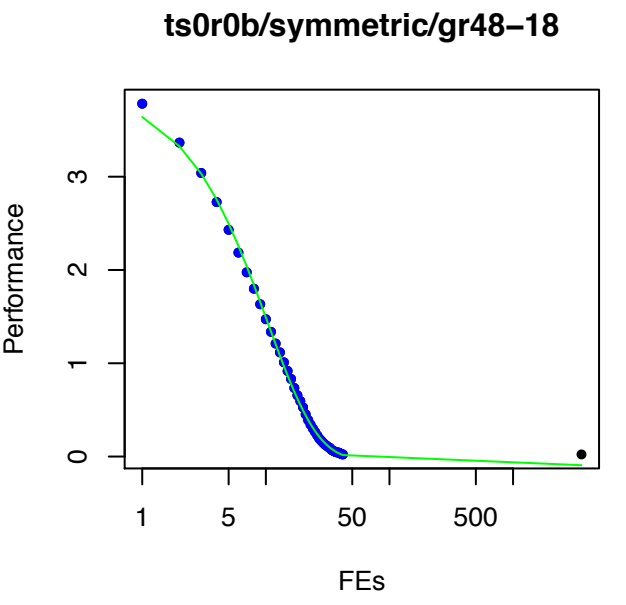
0.5
1.0
1.5
2.0
2.5
1
5
50
500
FEs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Performance
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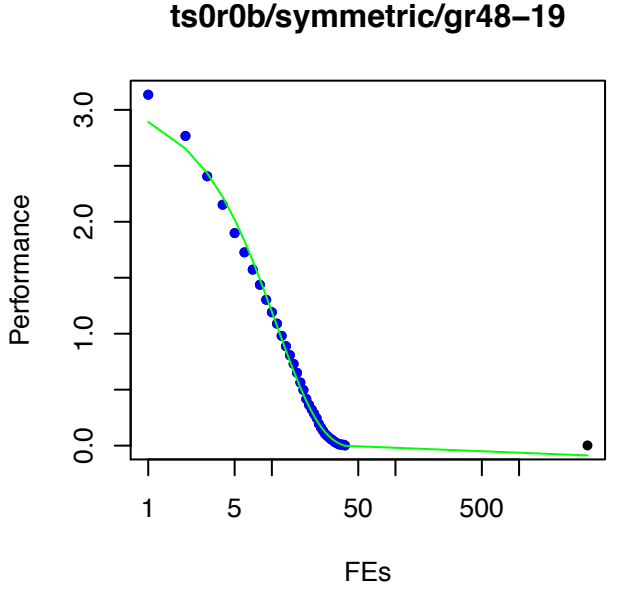
1
2
3
1
5
50
500
FEs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Performance
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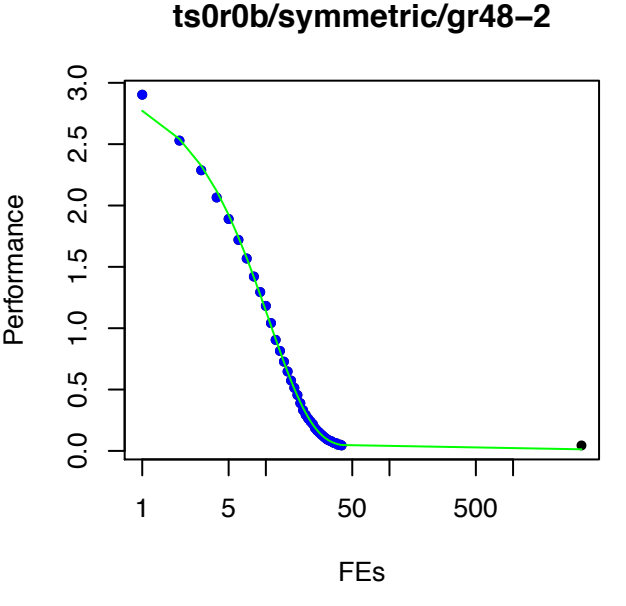
1.0
2.0
3.0
1
5
50
500
FEs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Performance
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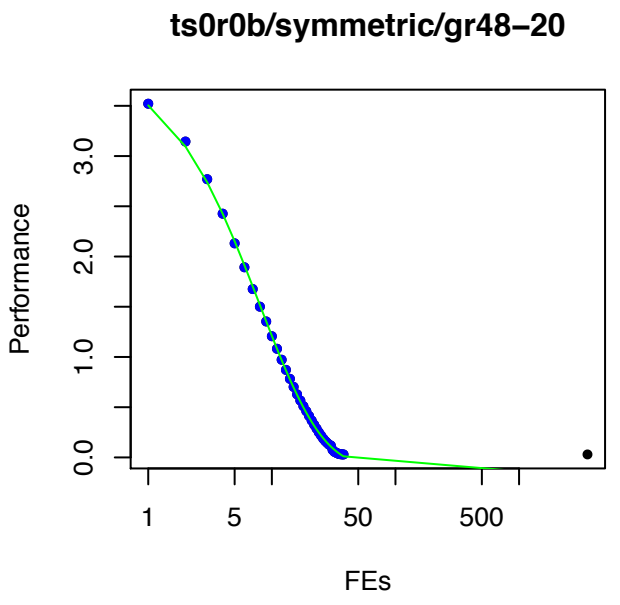
1.5
2.0
2.5
3.0
1
5
50
500
FEs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Performance
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2.0
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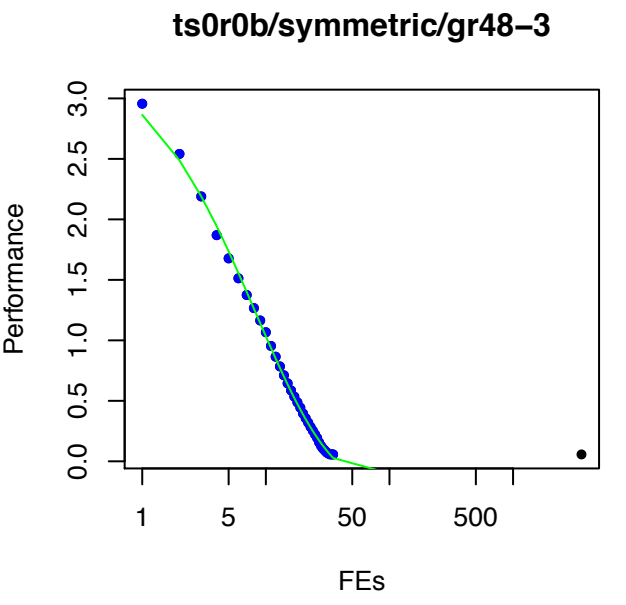
1
5
50
500
FEs


ts0r0b/symmetric/gr48−3
Performance
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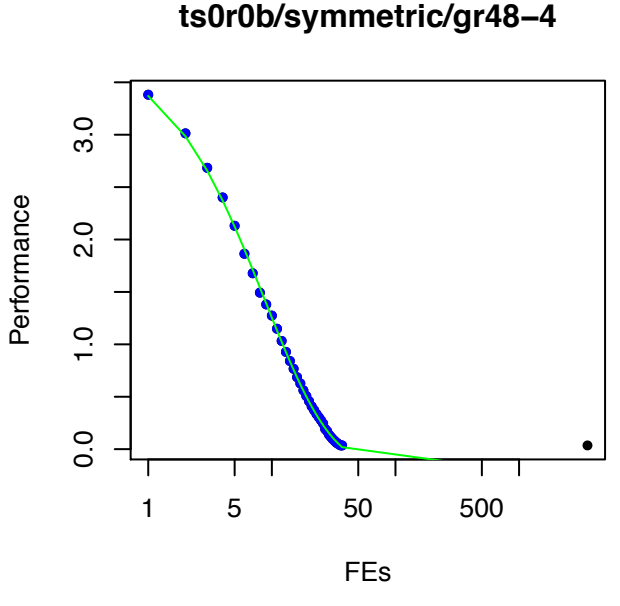
1.0
1.5
2.0
2.5
3.0
1
5
50
500
FEs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Performance
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2.0
3.0
1
5
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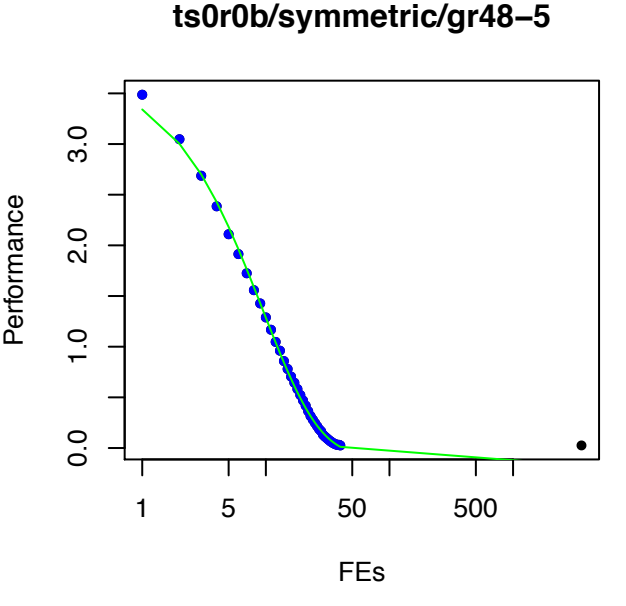
500
FEs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Performance
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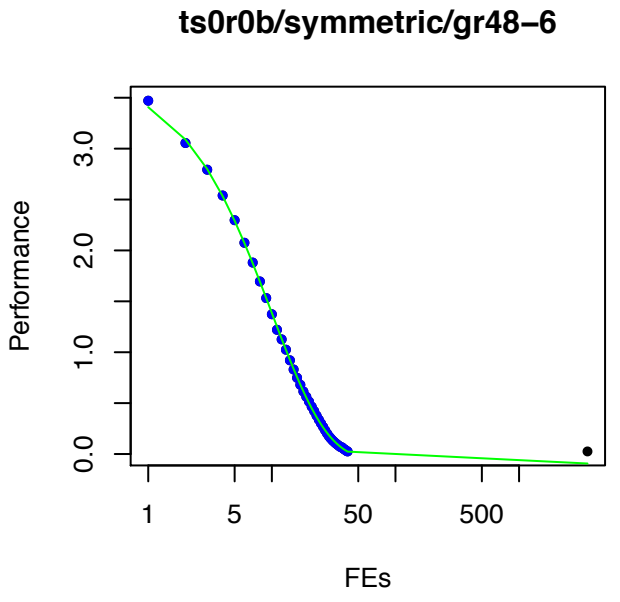
2.0
3.0
1
5
50
500
FEs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Performance
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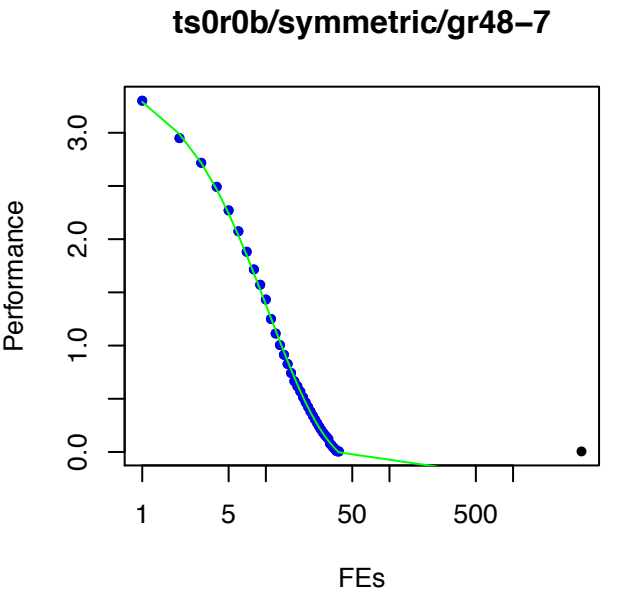
2.0
3.0
1
5
50
500
FEs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Performance
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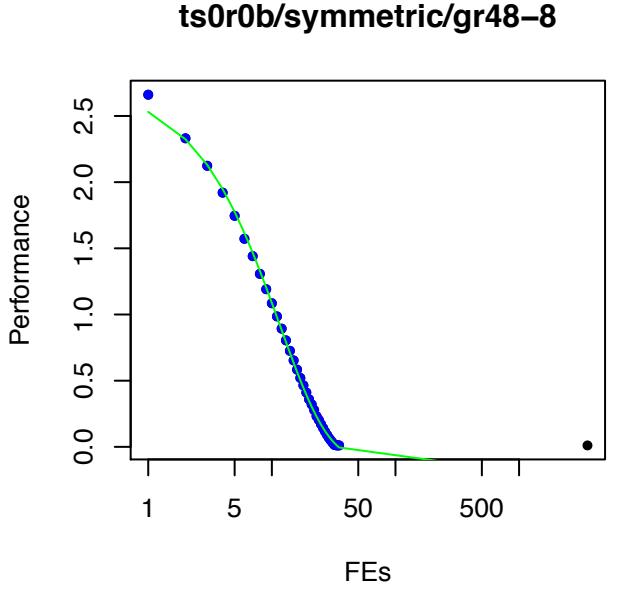
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/gr48−8
Performance
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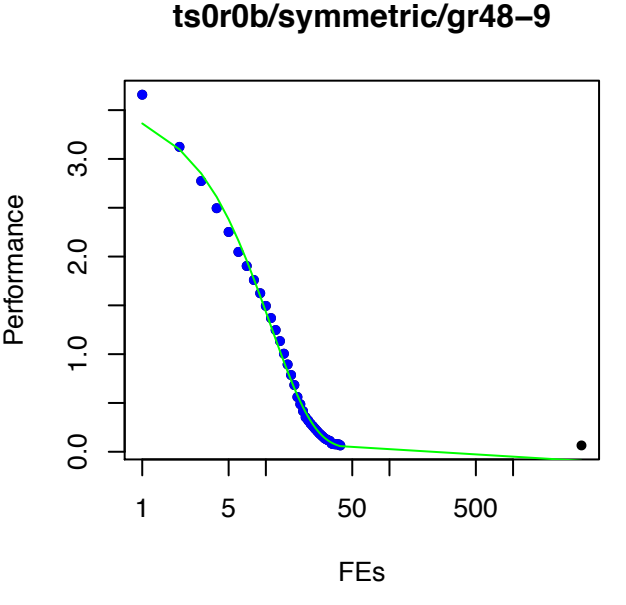
1.5
2.0
2.5
1
5
50
500
FEs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Performance
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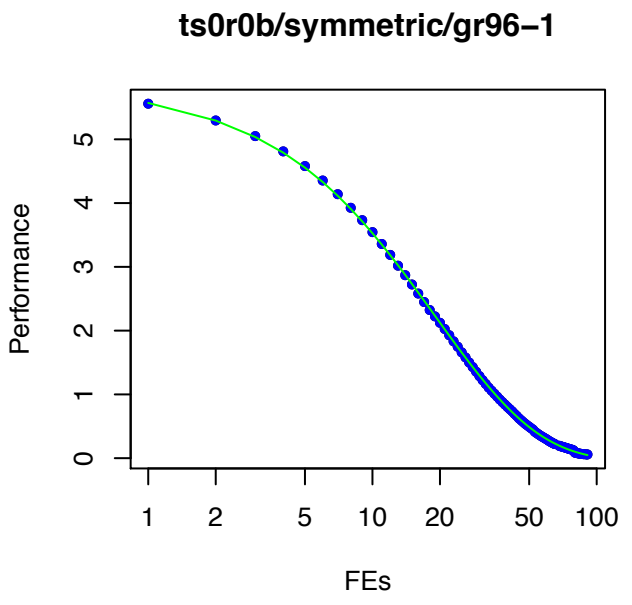
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/gr96−1
Performance
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2
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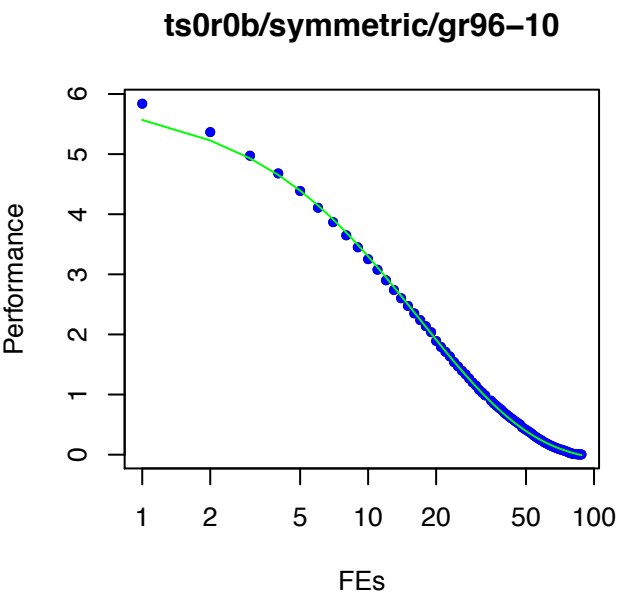
4
5
1
2
5
10
20
50
100
FEs


ts0r0b/symmetric/gr96−10
Performance
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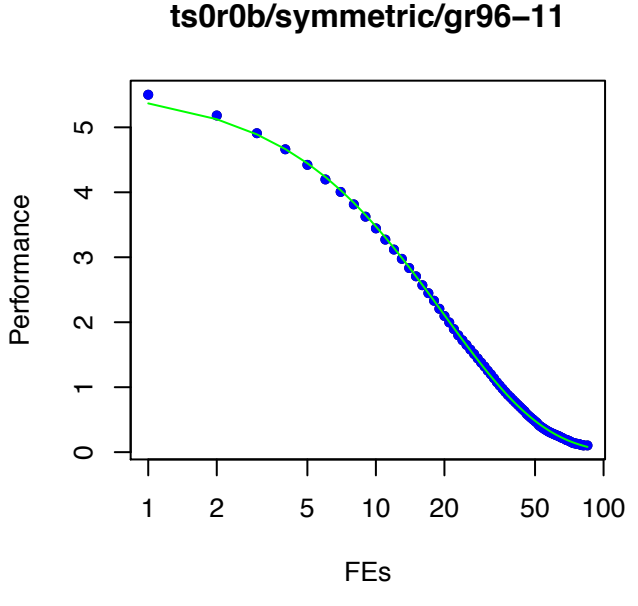
5
6
1
2
5
10
20
50
100
FEs


ts0r0b/symmetric/gr96−11
Performance
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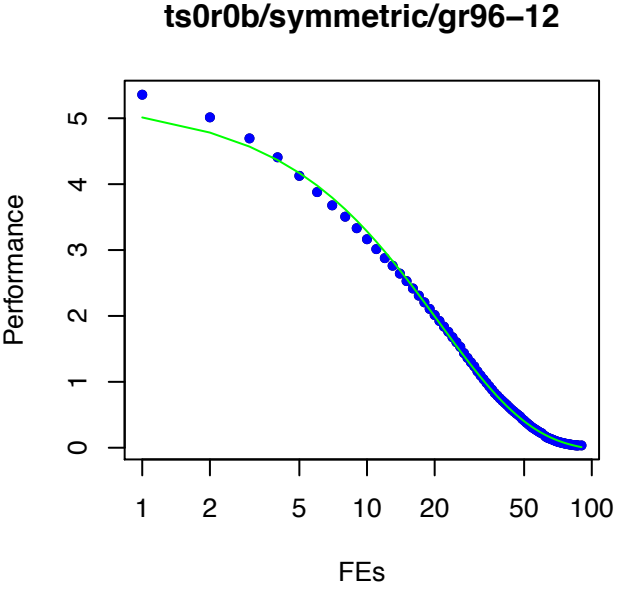
2
3
4
5
1
2
5
10
20
50
100
FEs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Performance
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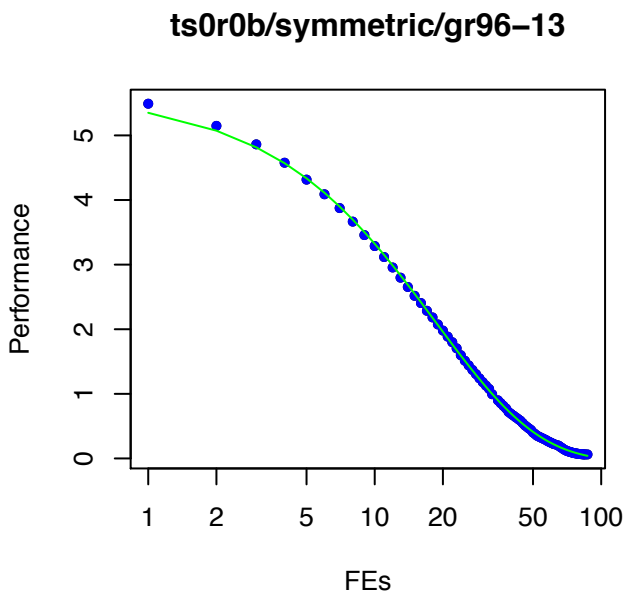
1
2
5
10
20
50
100
FEs


ts0r0b/symmetric/gr96−13
Performance
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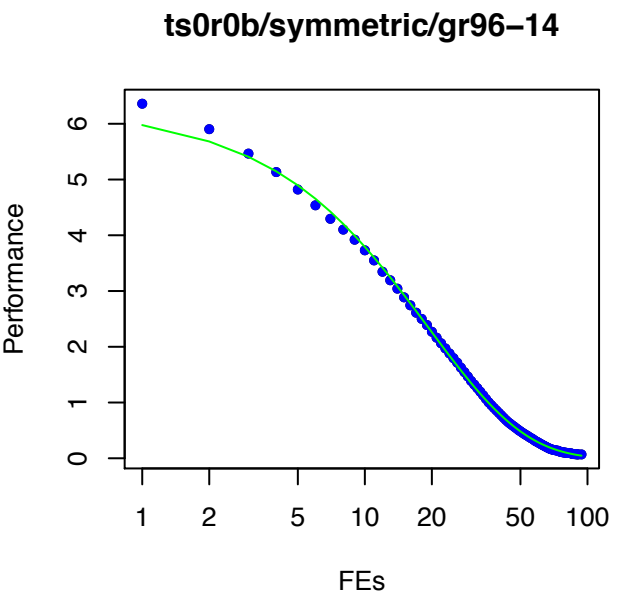
1
2
3
4
5
1
2
5
10
20
50
100
FEs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Performance
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2
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4
5
6
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2
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10
20
50
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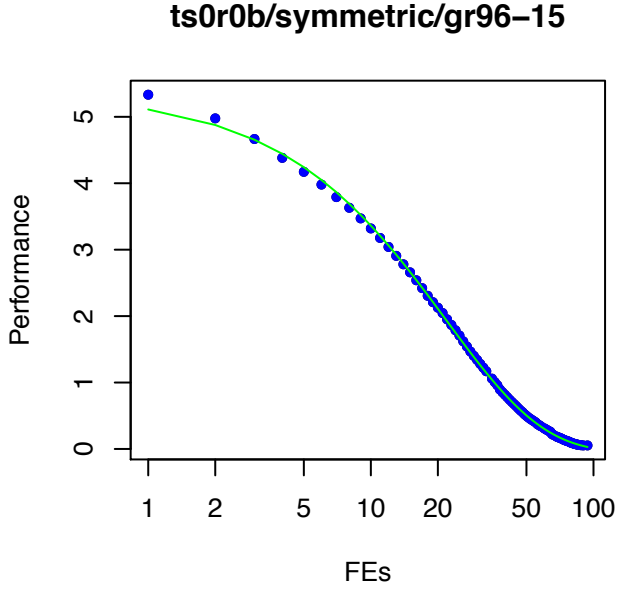
FEs


ts0r0b/symmetric/gr96−15
Performance
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2
3
4
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1
2
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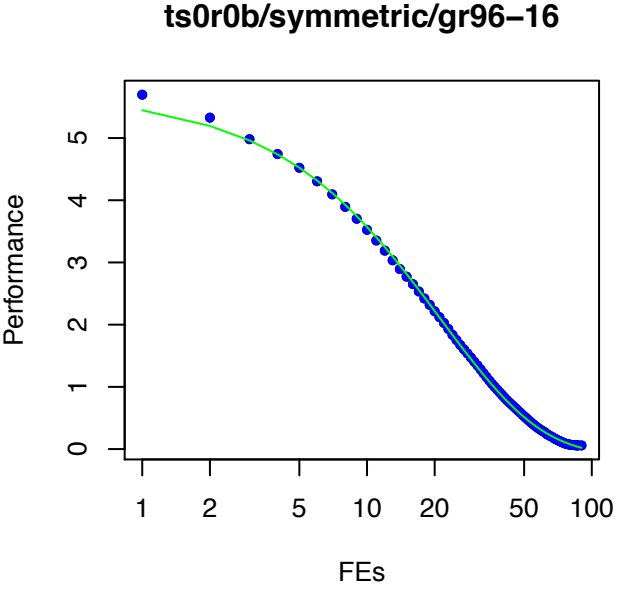
10
20
50
100
FEs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Performance
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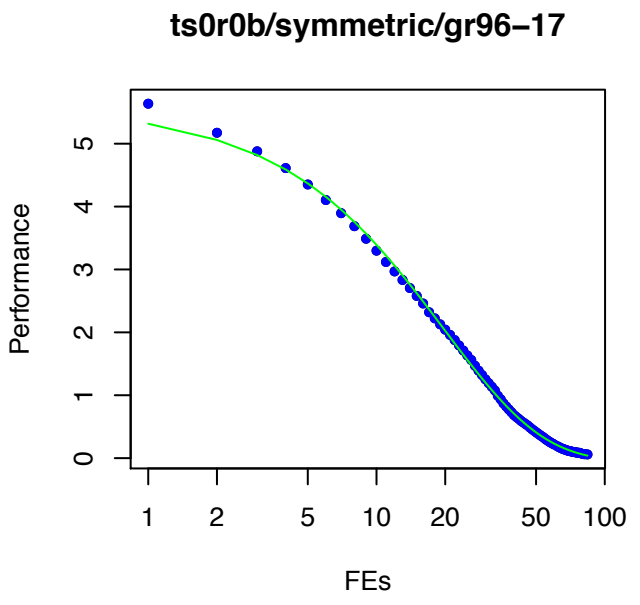
20
50
100
FEs


ts0r0b/symmetric/gr96−17
Performance
0
1
2
3
4
5
1
2
5
10
20
50
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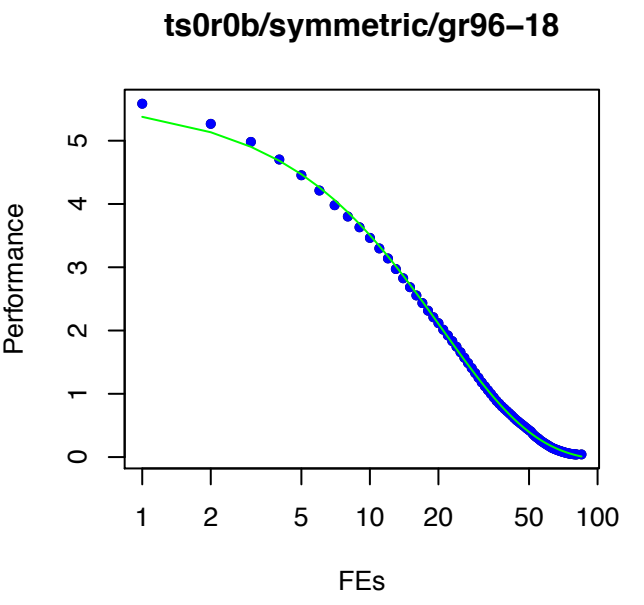
FEs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Performance
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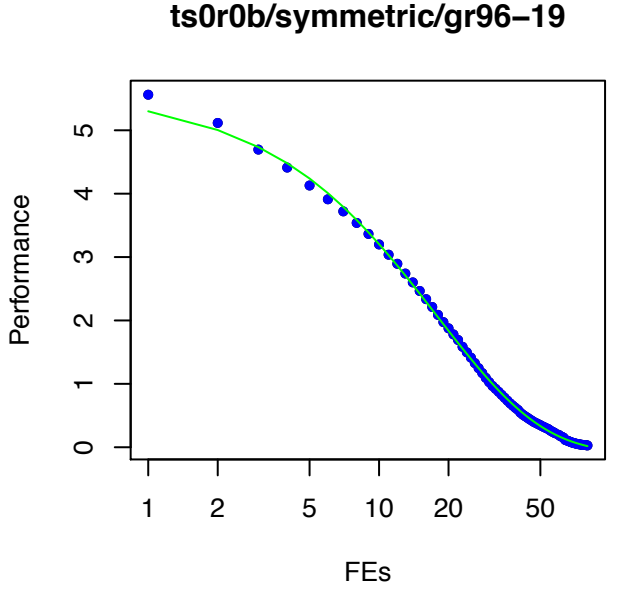
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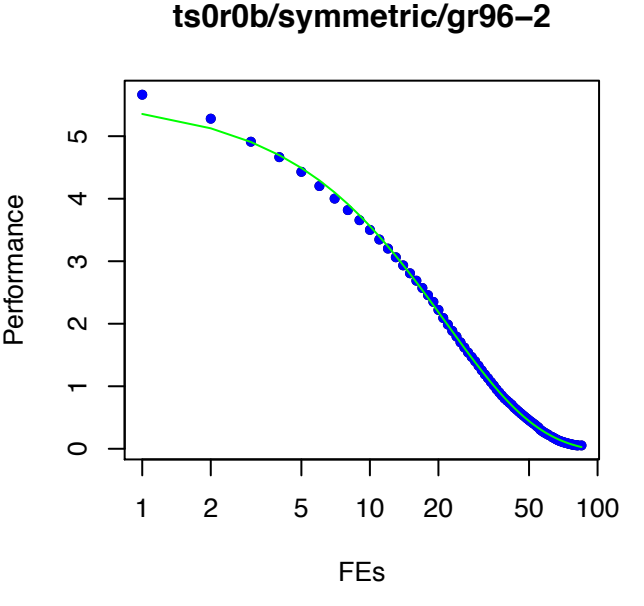
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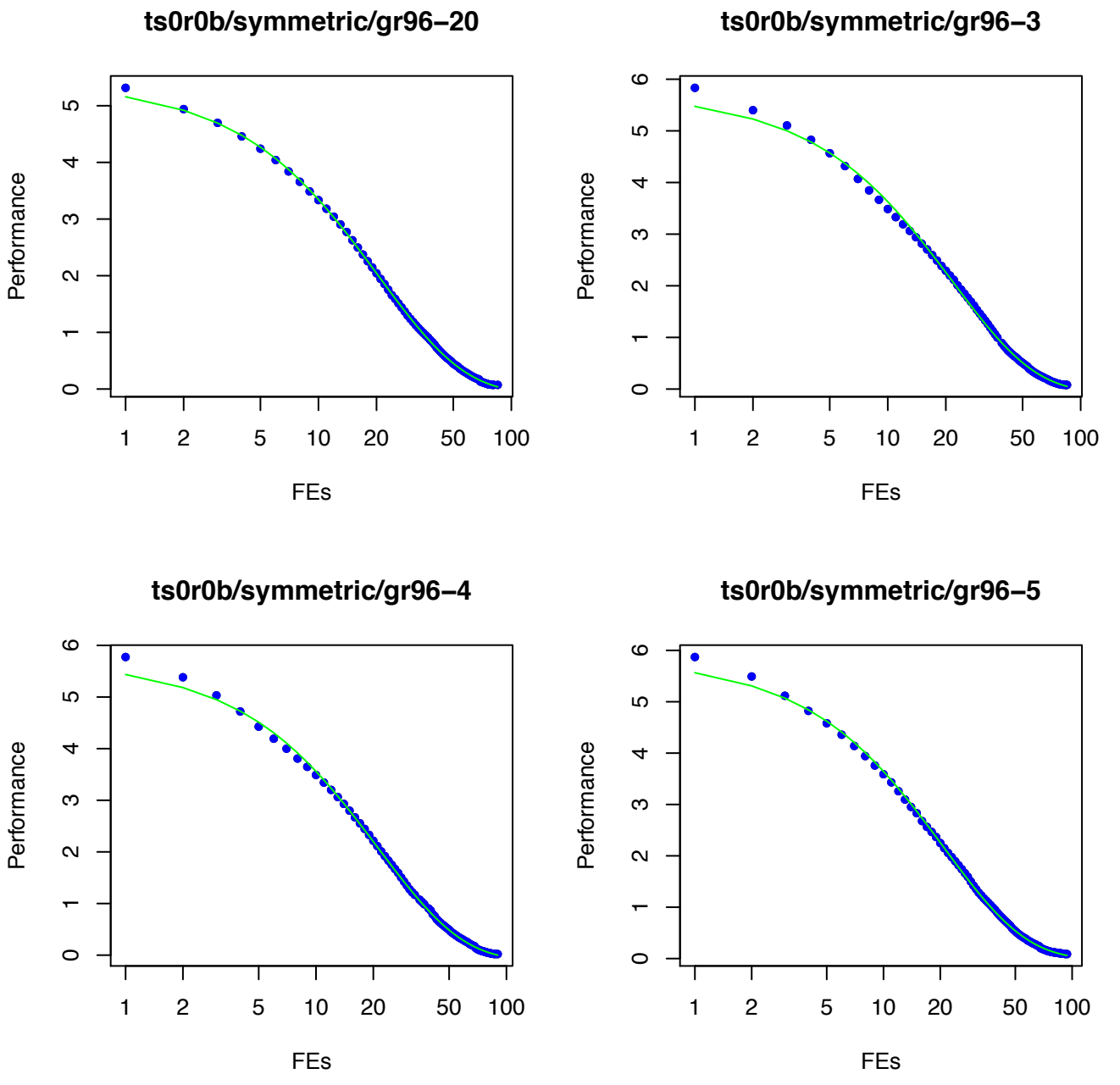
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ts0r0b/symmetric/gr96−4
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Performance
FEs
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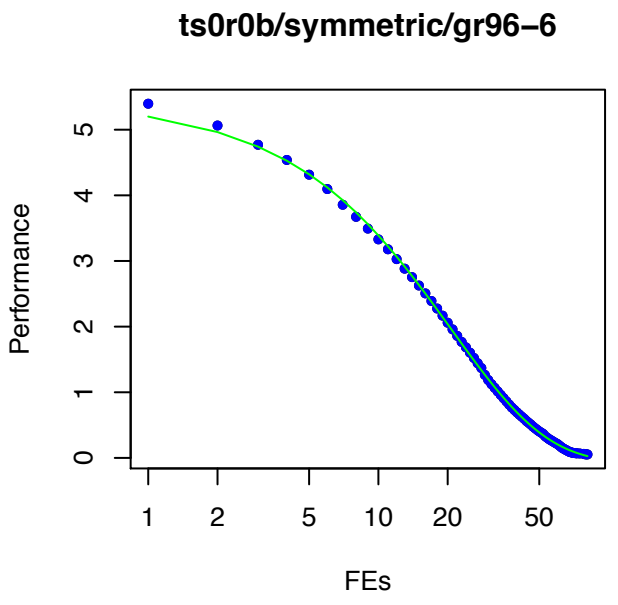
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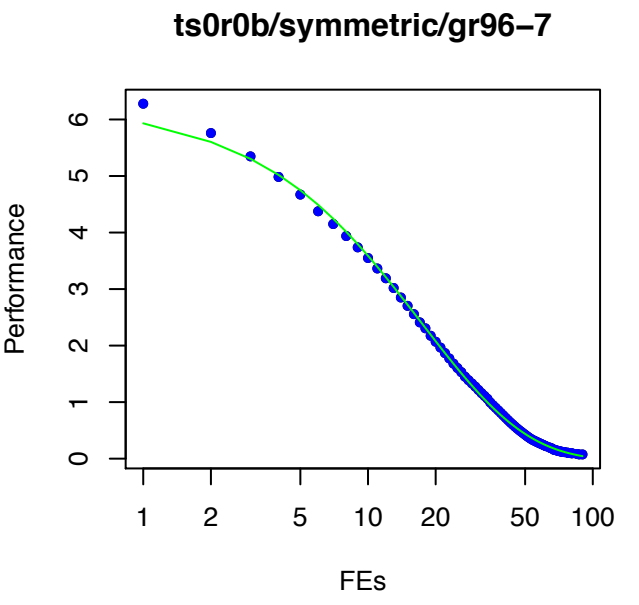
FEs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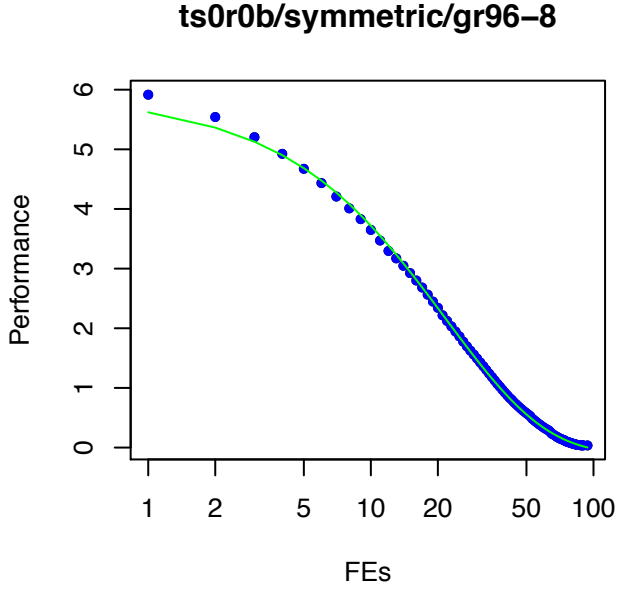
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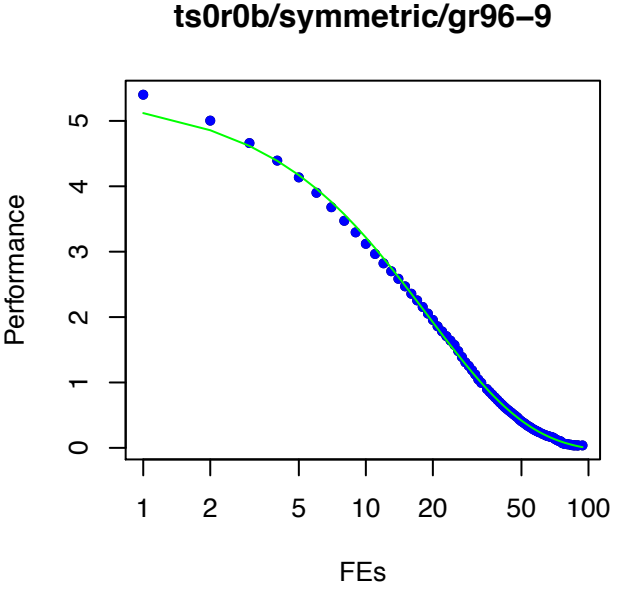
FEs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Performance
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2
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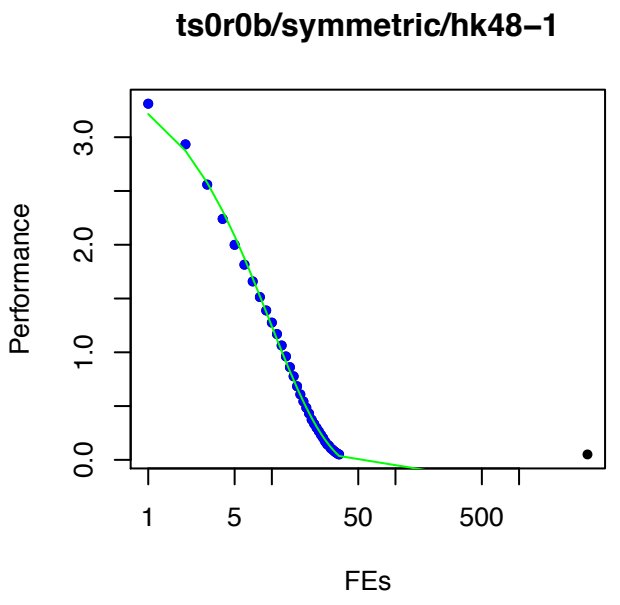
FEs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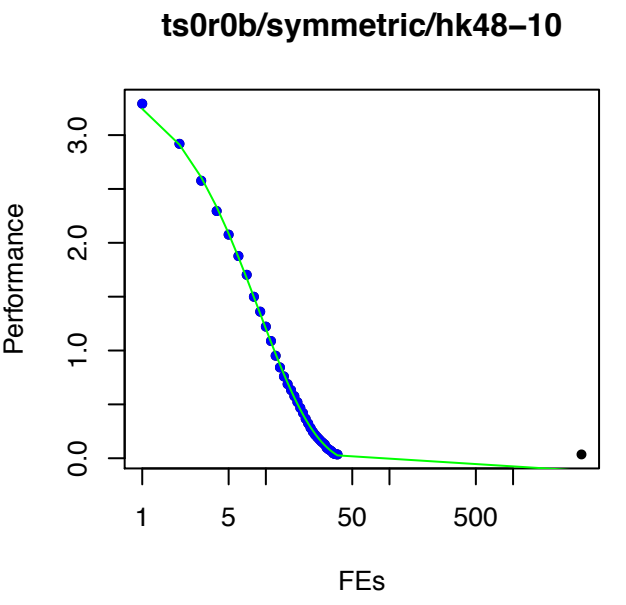
FEs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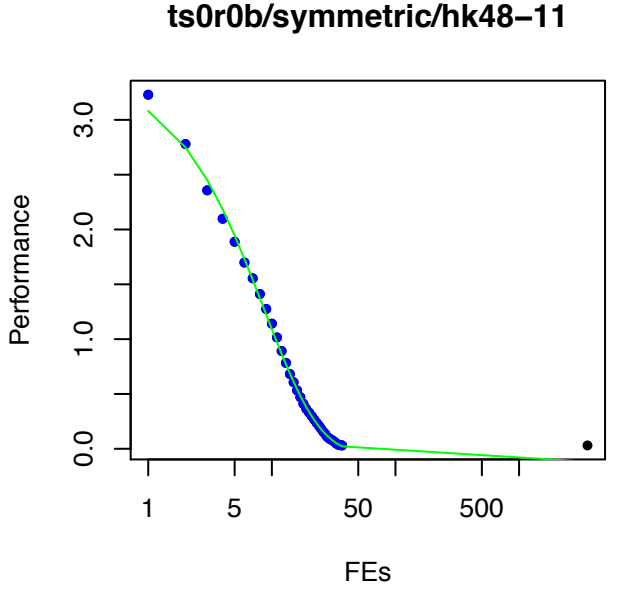
FEs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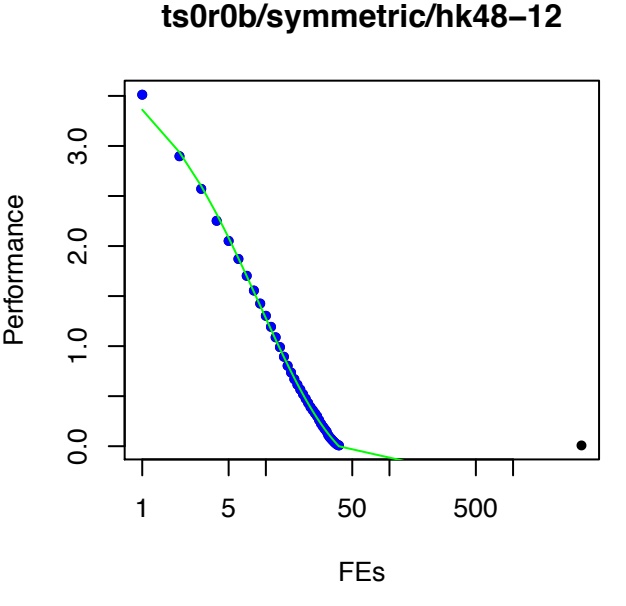
FEs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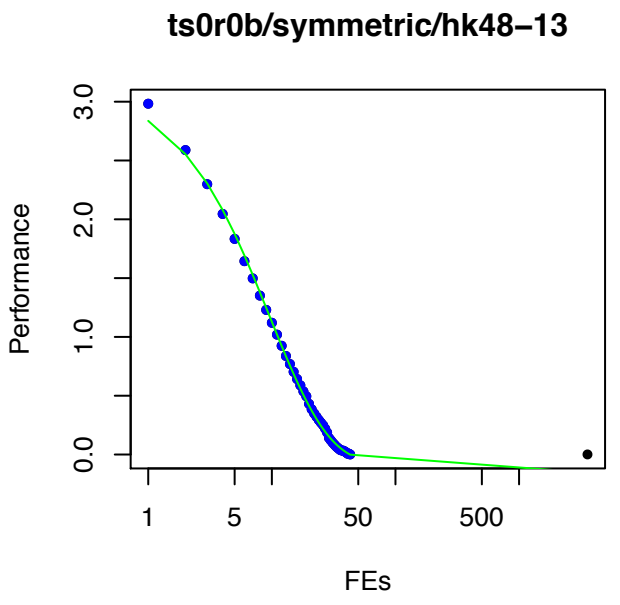
FEs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Performance
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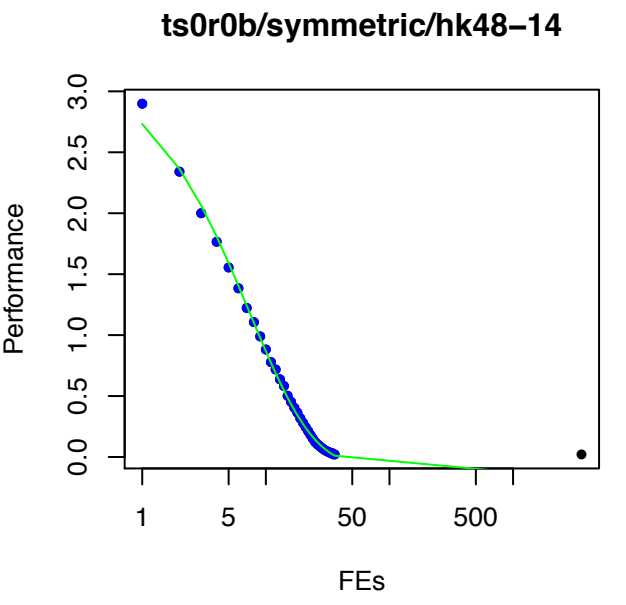
500
FEs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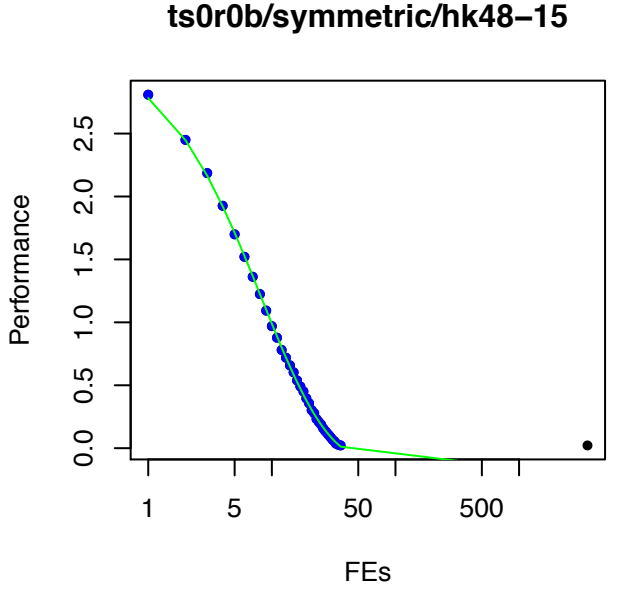
FEs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5
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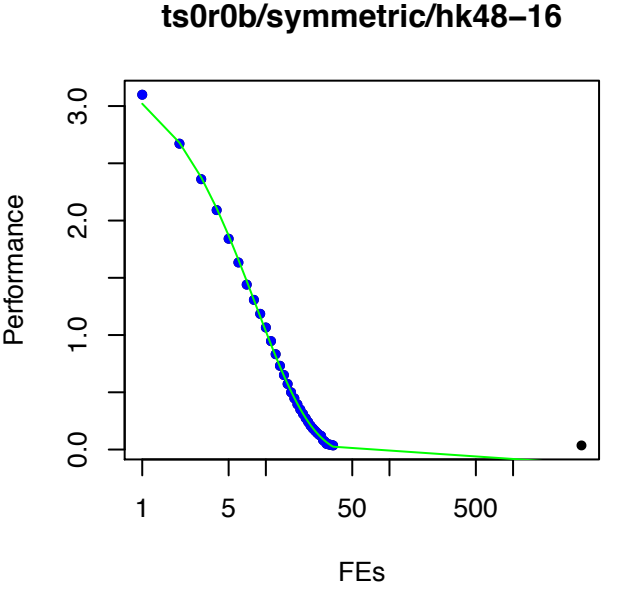
FEs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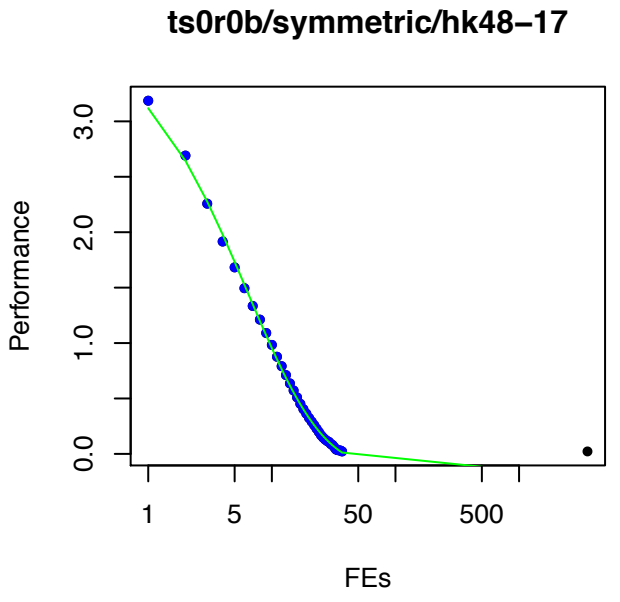
500
FEs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Performance
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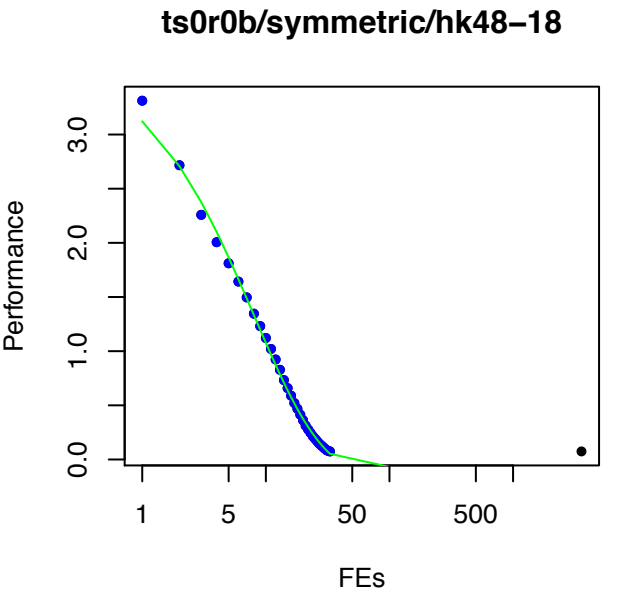
500
FEs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Performance
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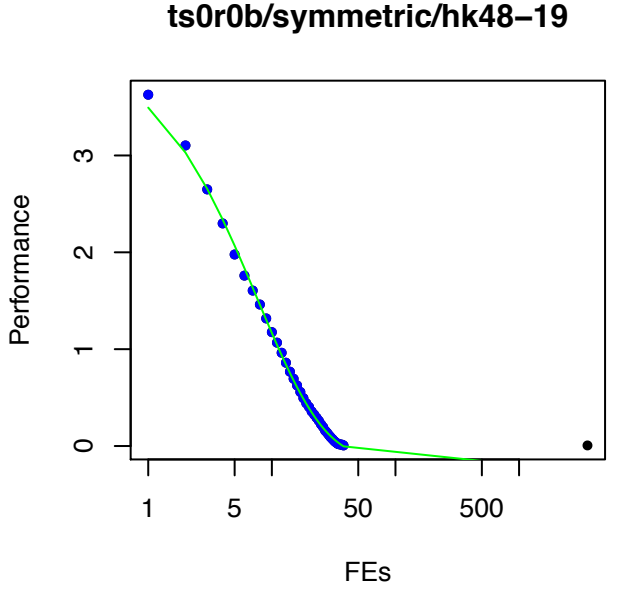
500
FEs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Performance
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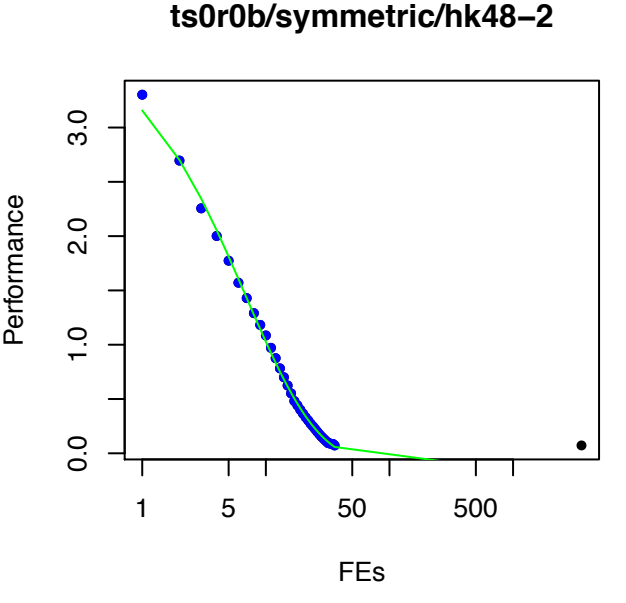
500
FEs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Performance
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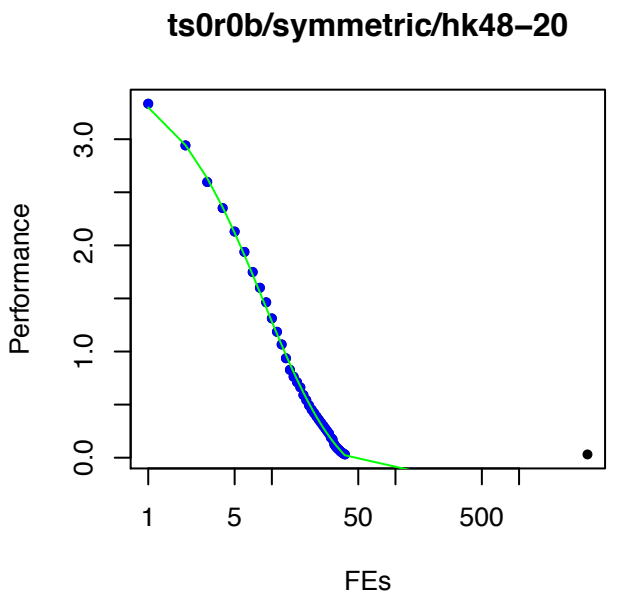
500
FEs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Performance
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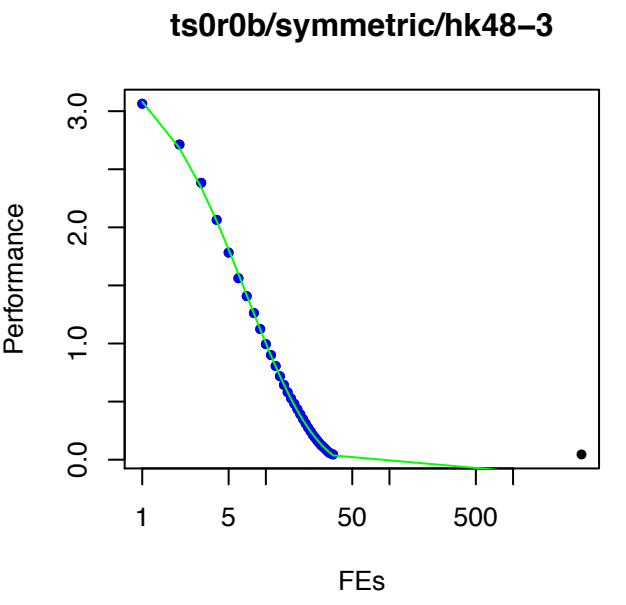
500
FEs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Performance
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2.0
3.0
1
5
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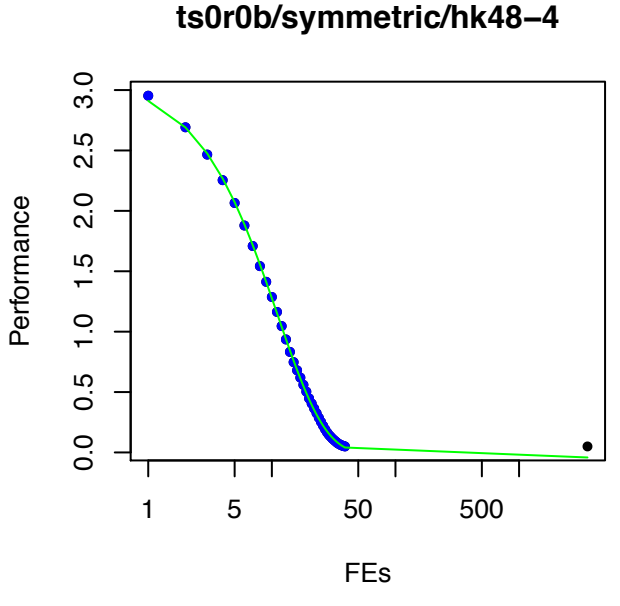
500
FEs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Performance
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2.5
3.0
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5
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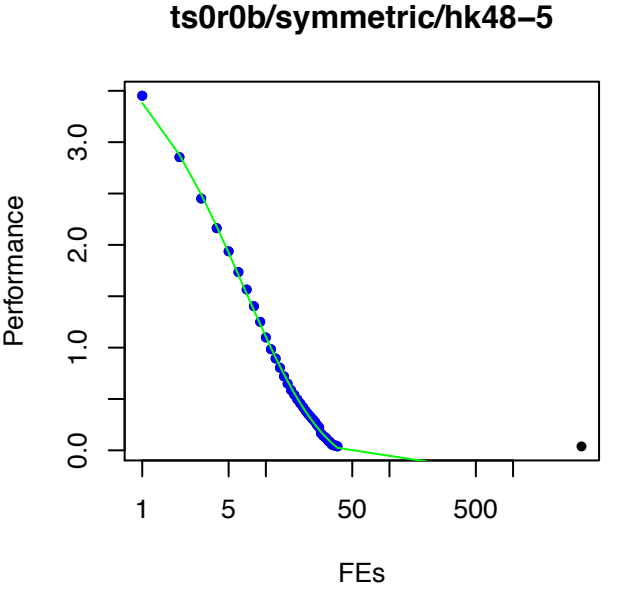
500
FEs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Performance
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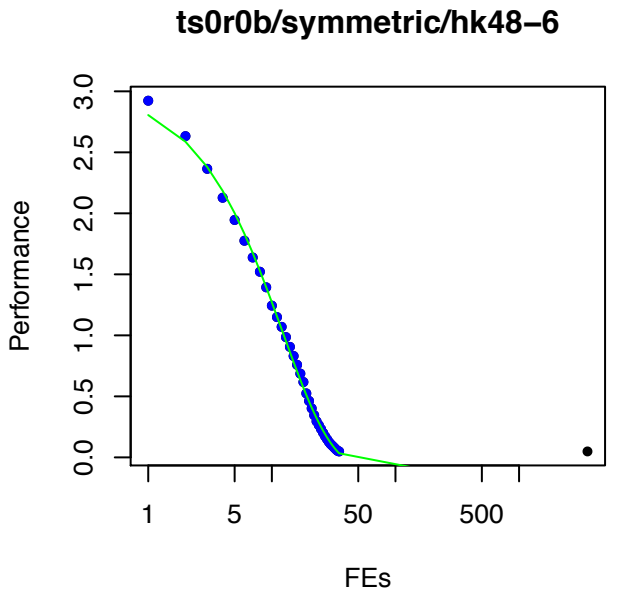
FEs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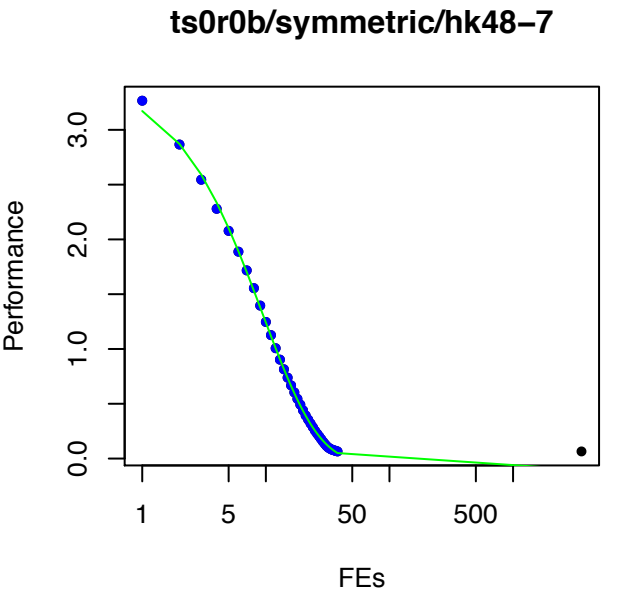
500
FEs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Performance
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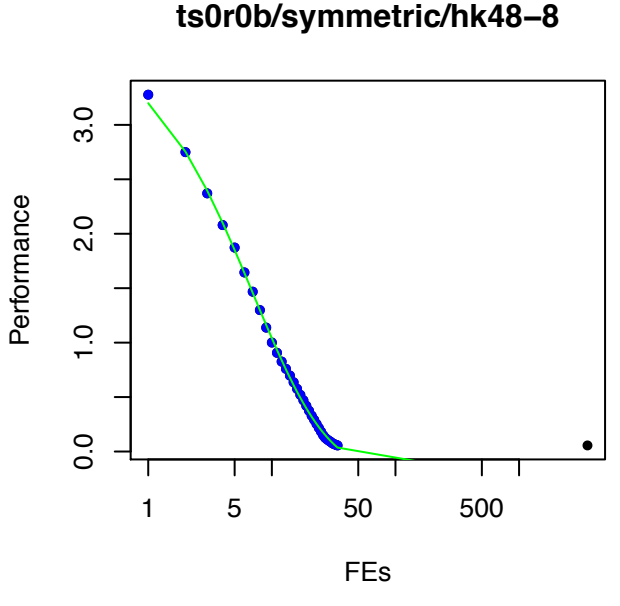
FEs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Performance
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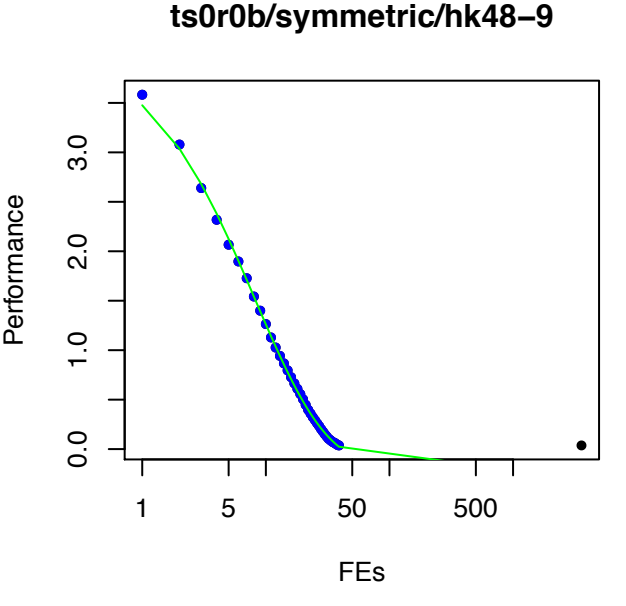
FEs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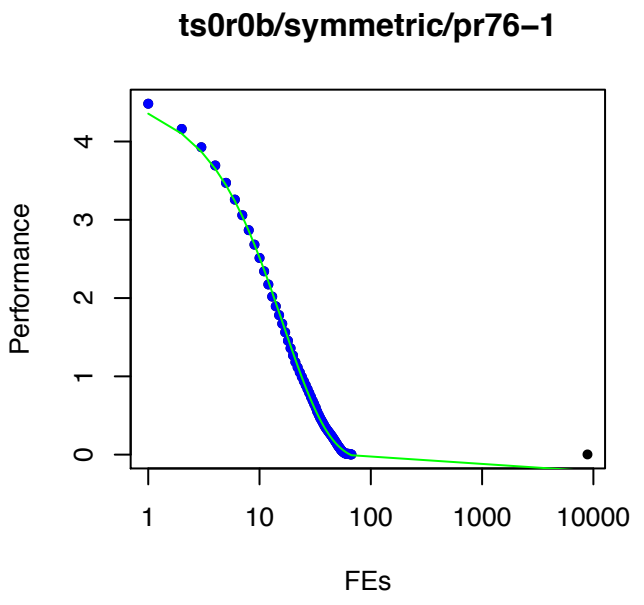
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Performance
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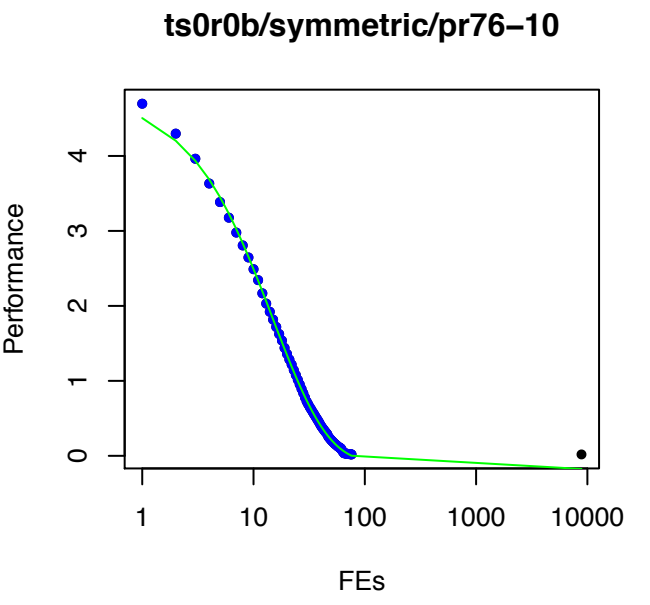
10000
FEs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Performance
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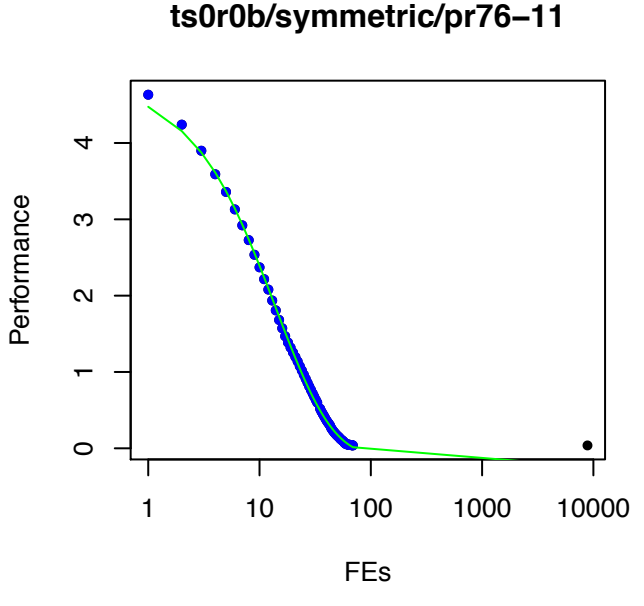
10000
FEs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Performance
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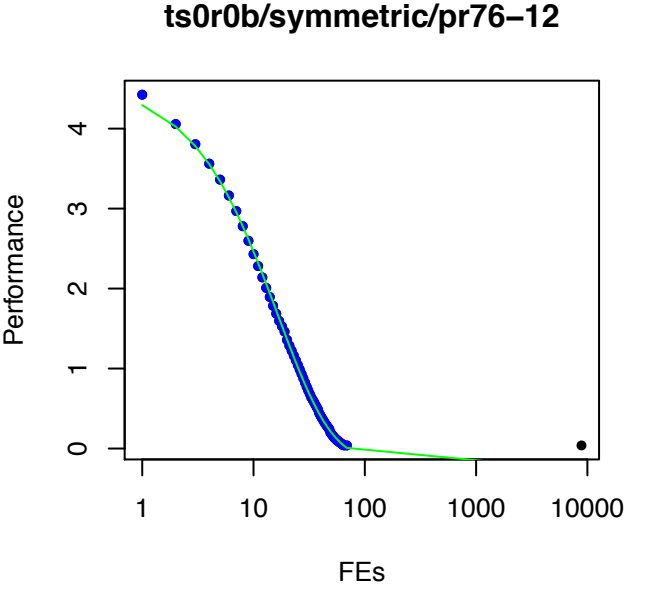
FEs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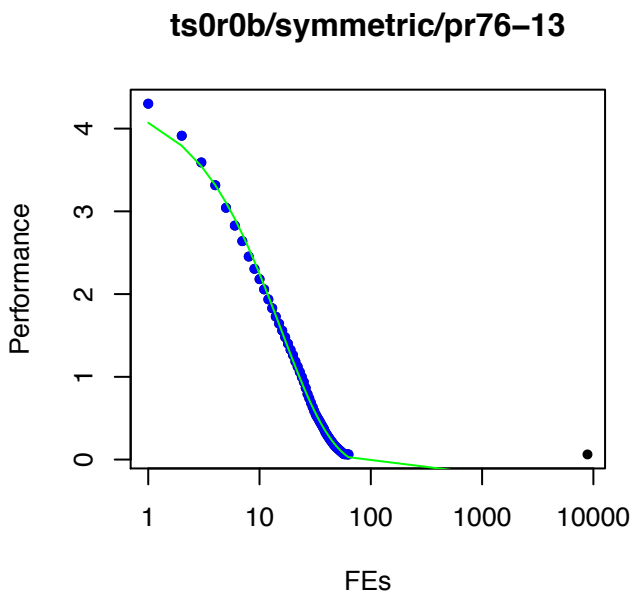
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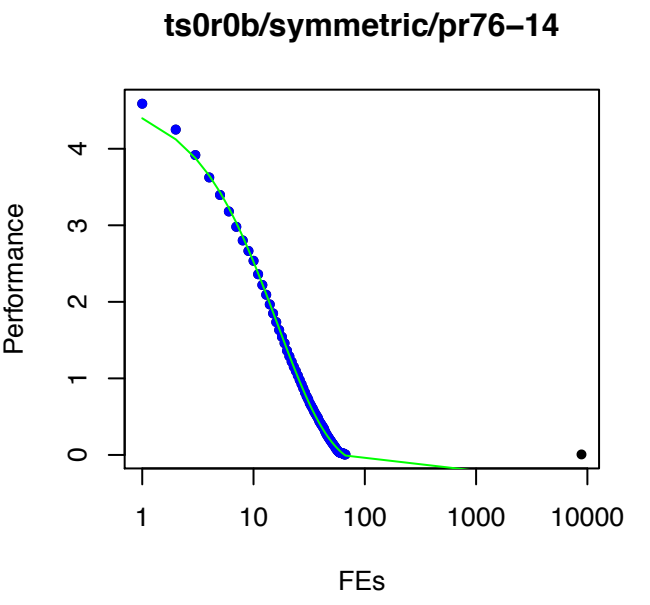
FEs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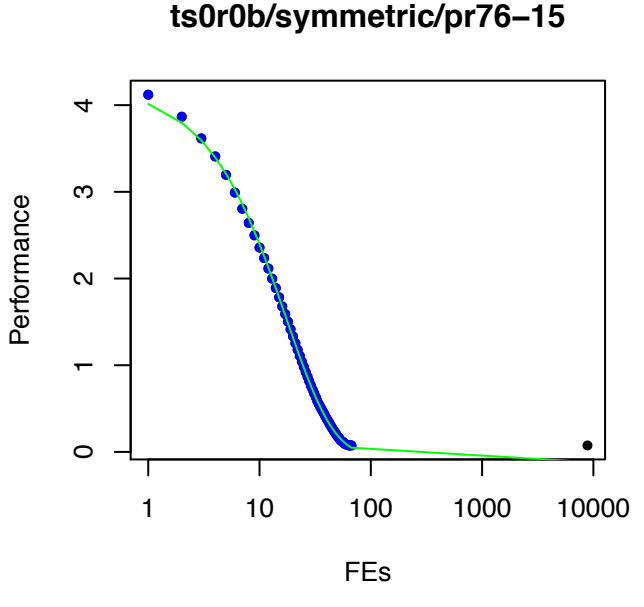
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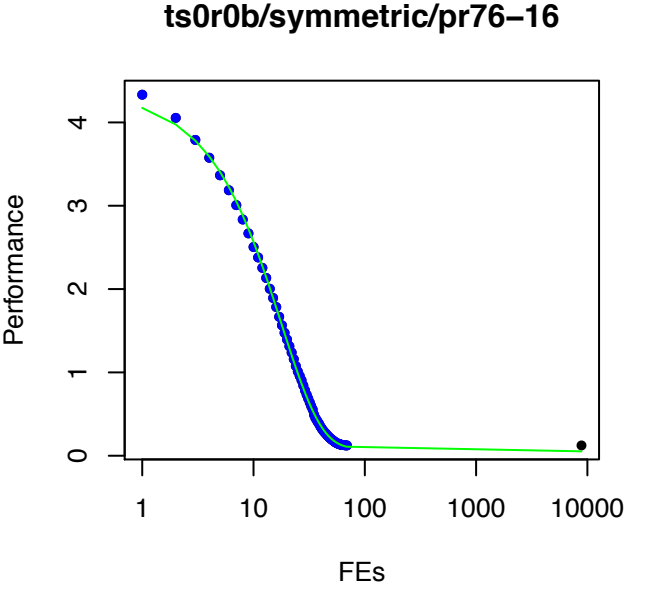
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Performance
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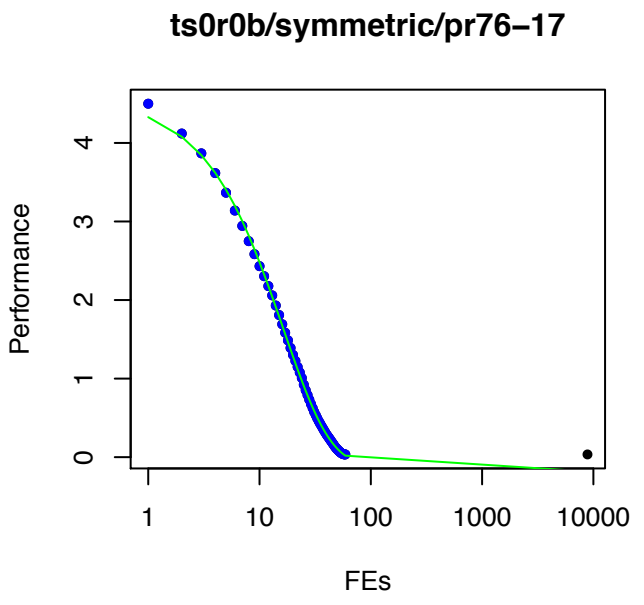
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Performance
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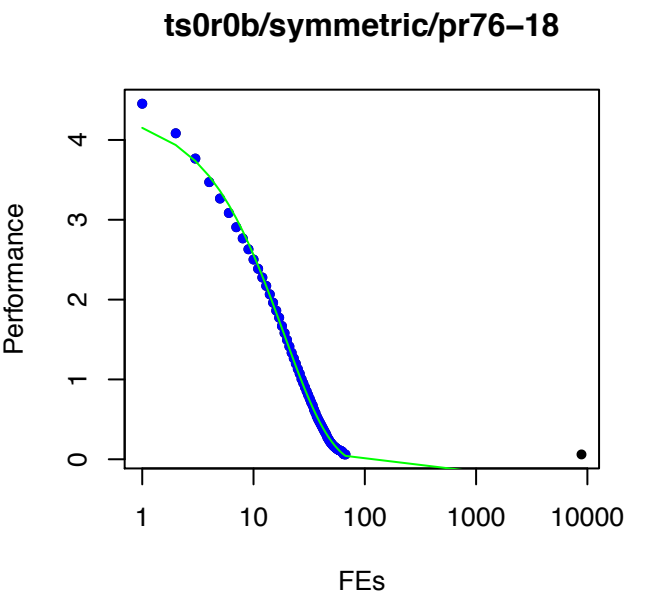
FEs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Performance
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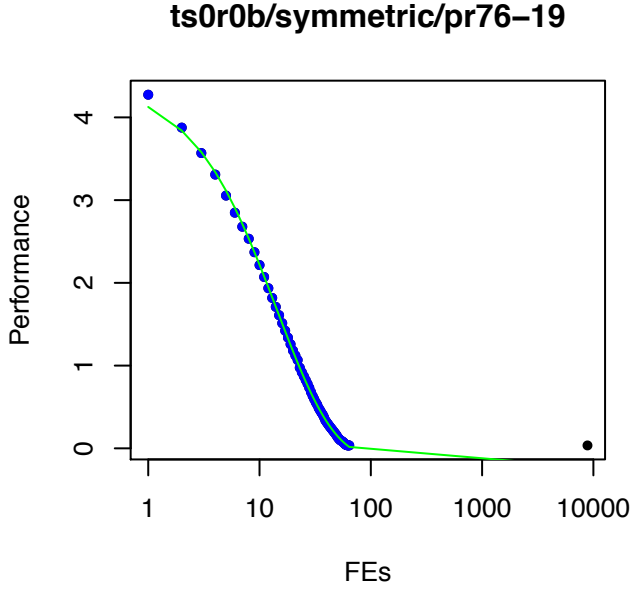
FEs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Performance
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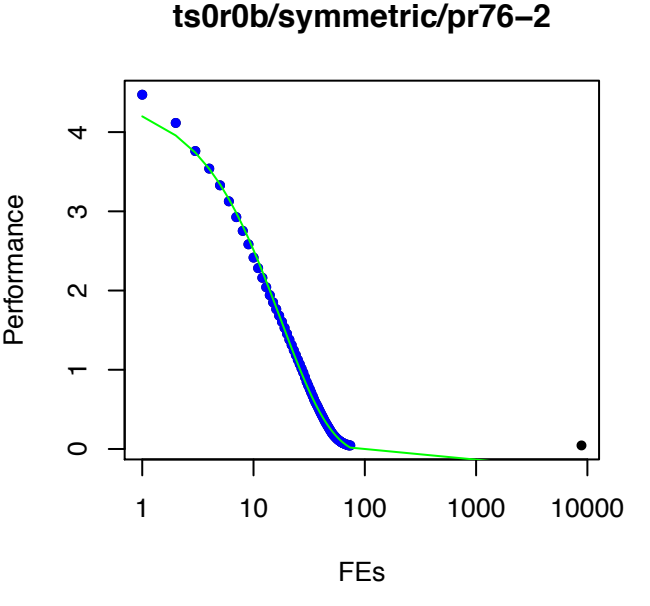
FEs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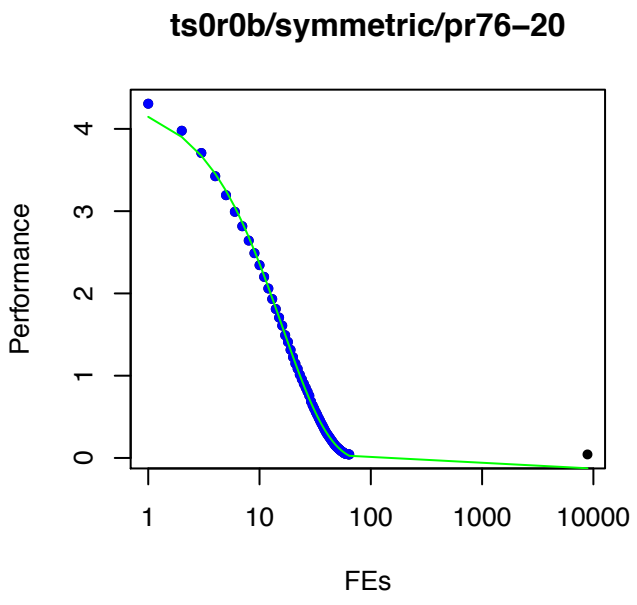
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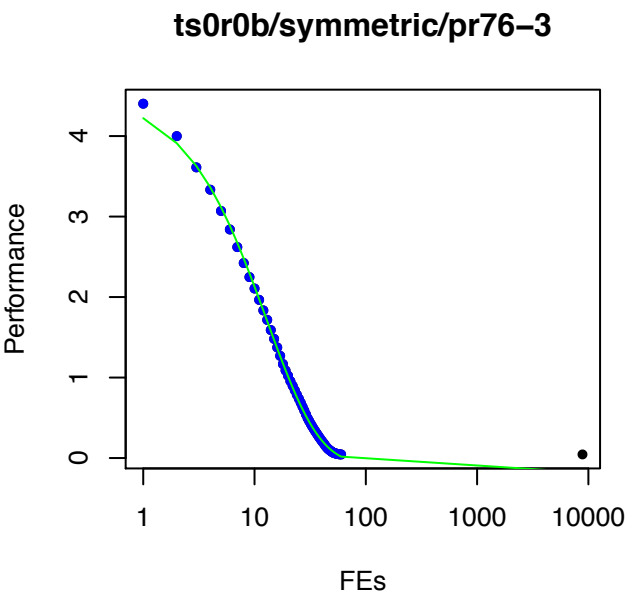
FEs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Performance
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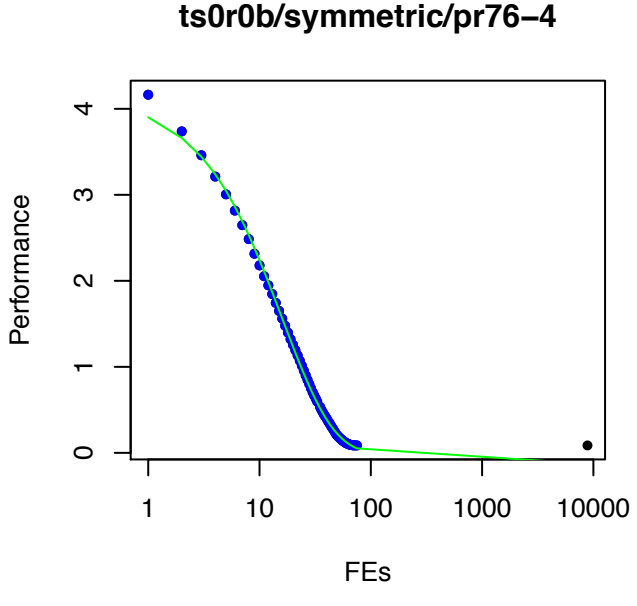
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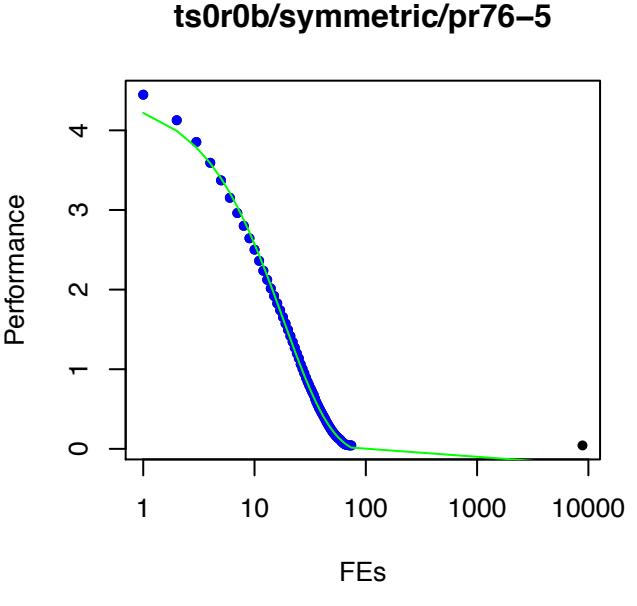
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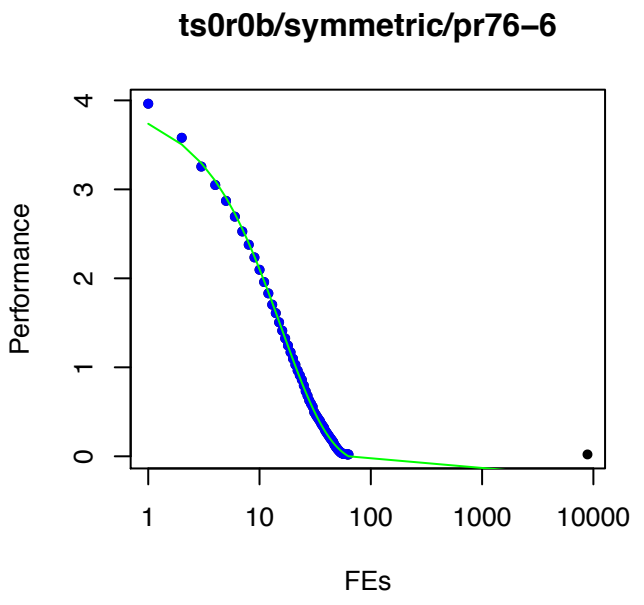
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Performance
FEs
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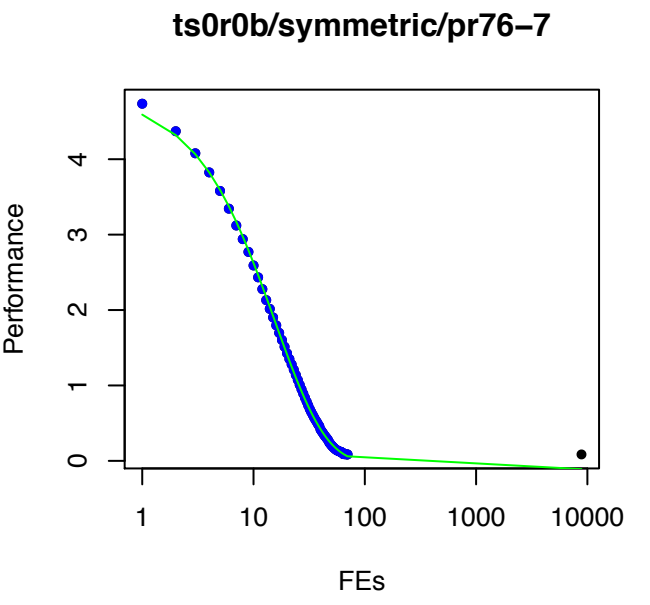
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Performance
FEs
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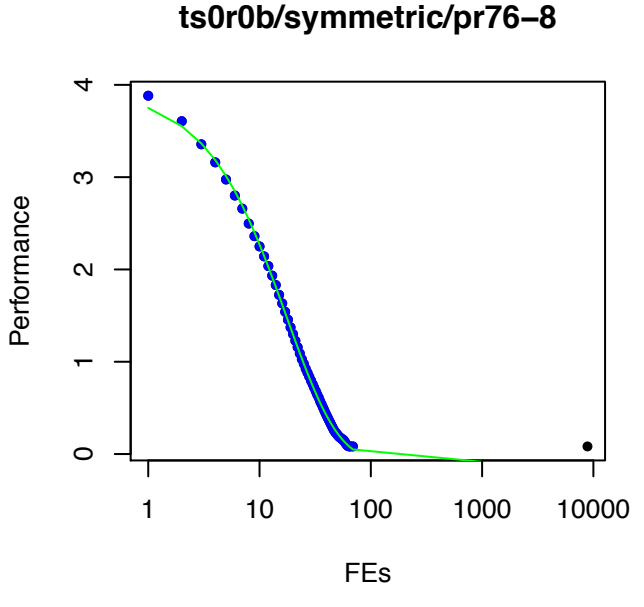
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Performance
FEs
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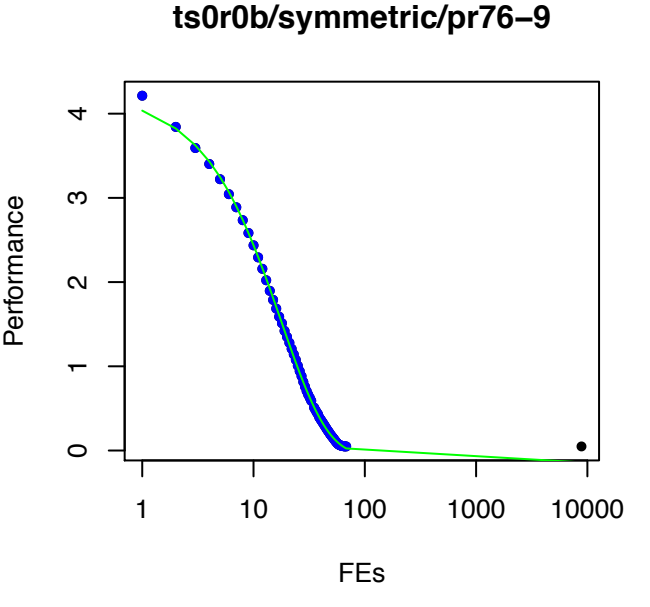
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Performance
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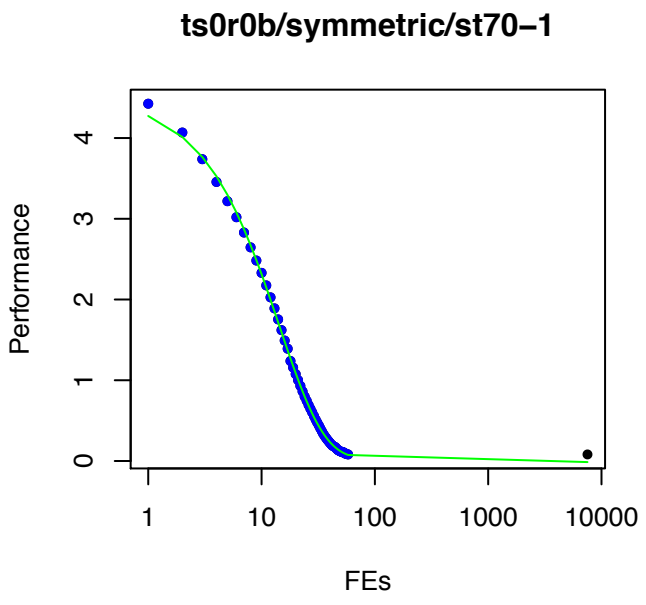
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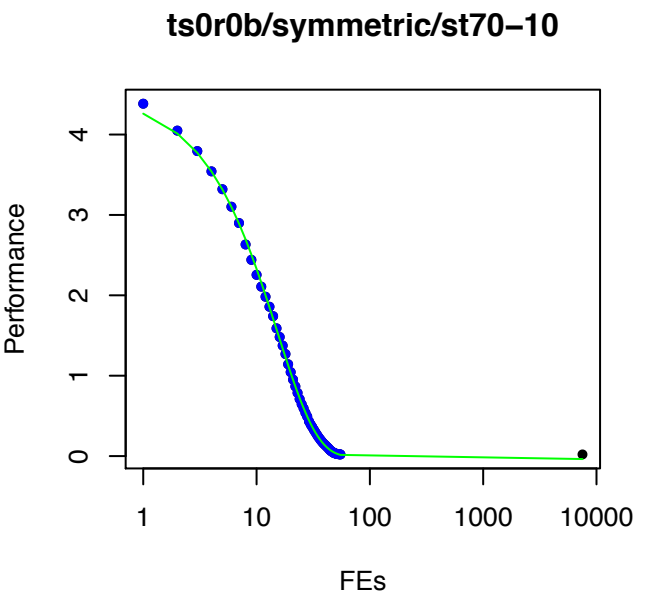
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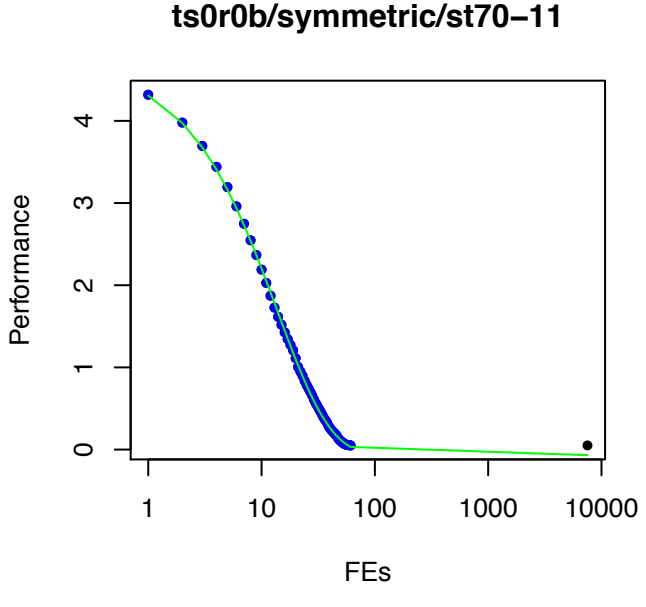
FEs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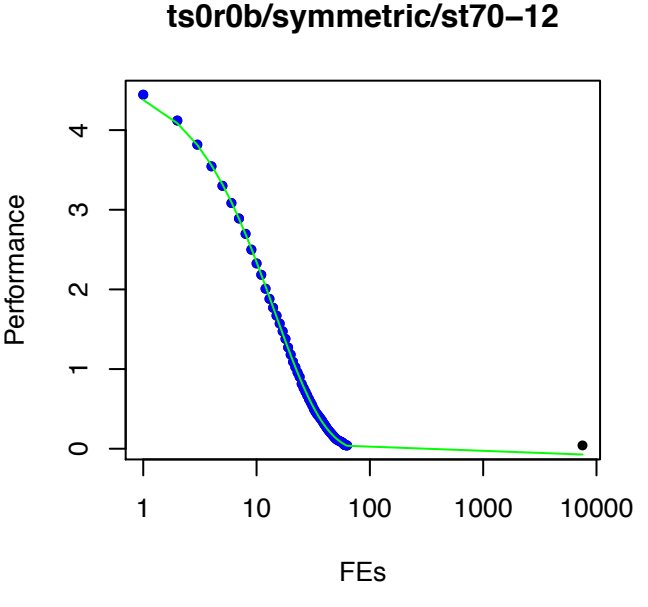
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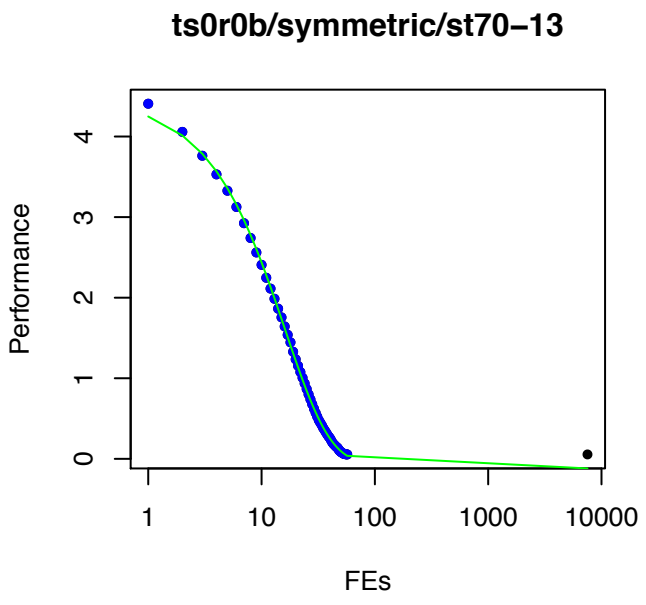
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Performance
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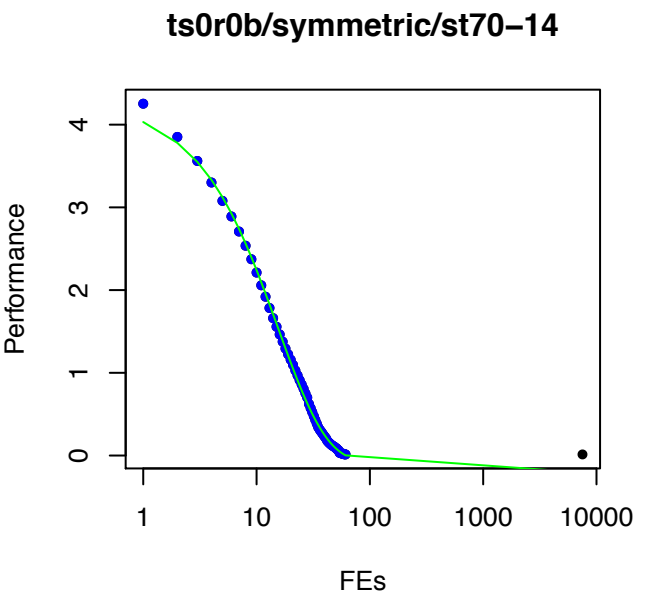
FEs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Performance
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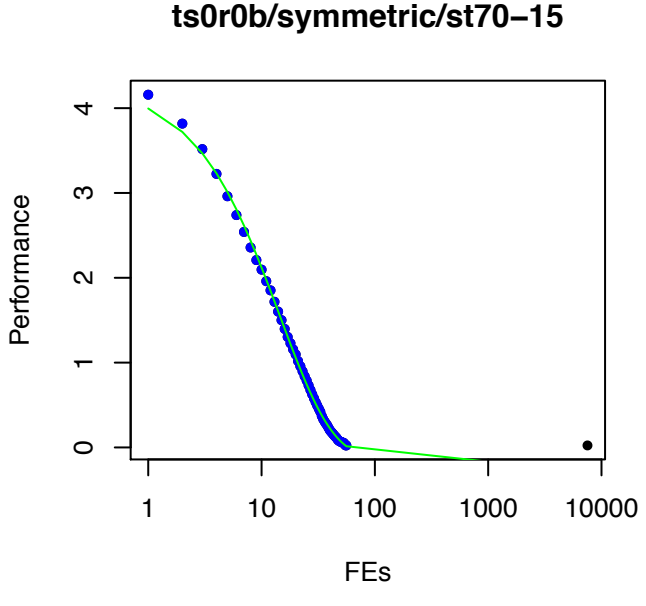
FEs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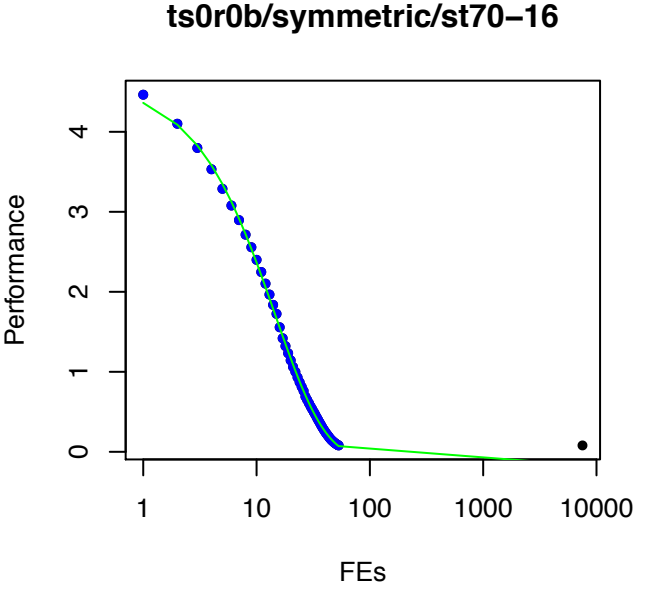
10000
FEs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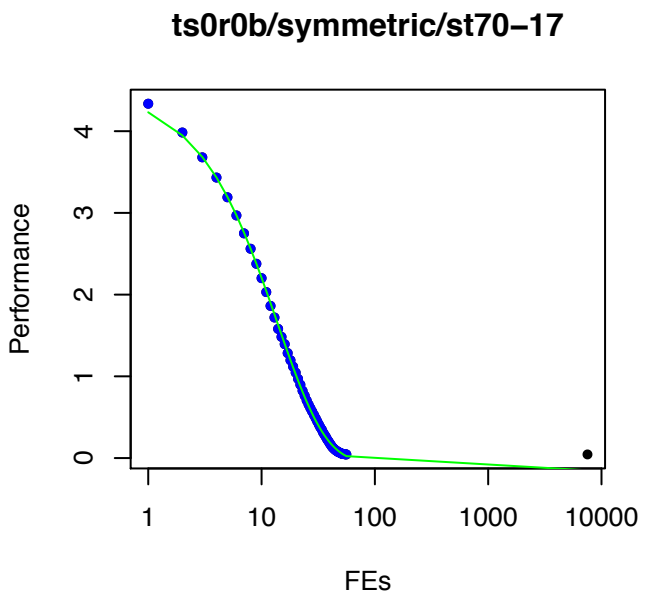
10000
FEs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Performance
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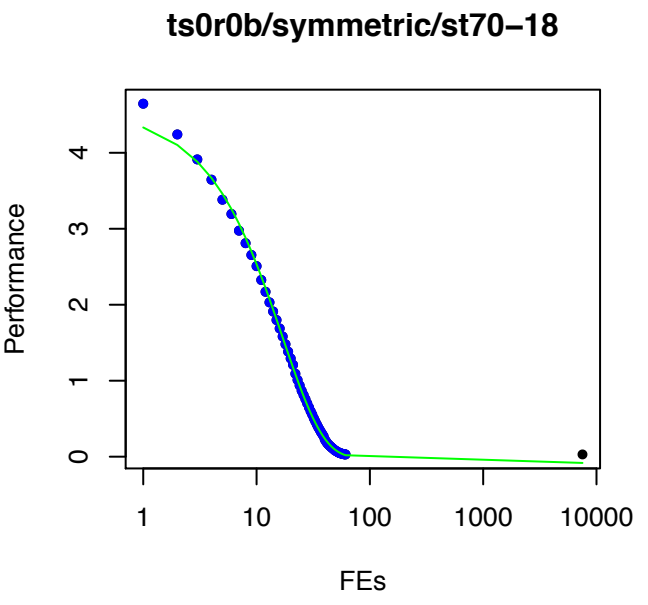
10000
FEs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Performance
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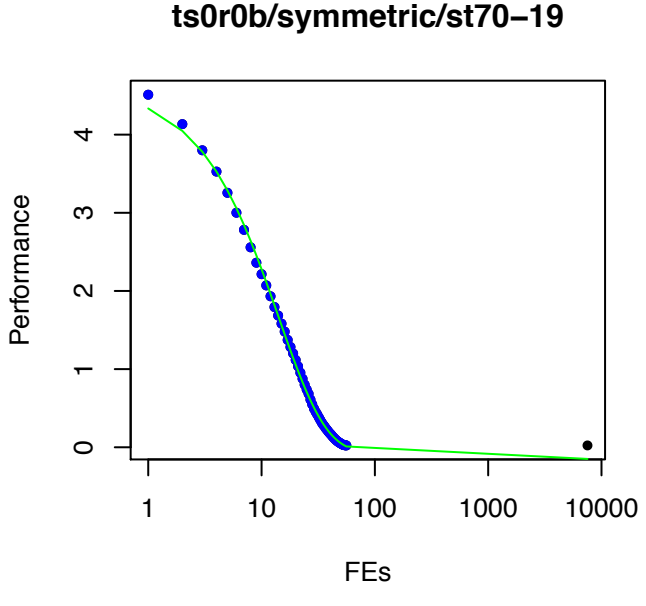
10000
FEs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Performance
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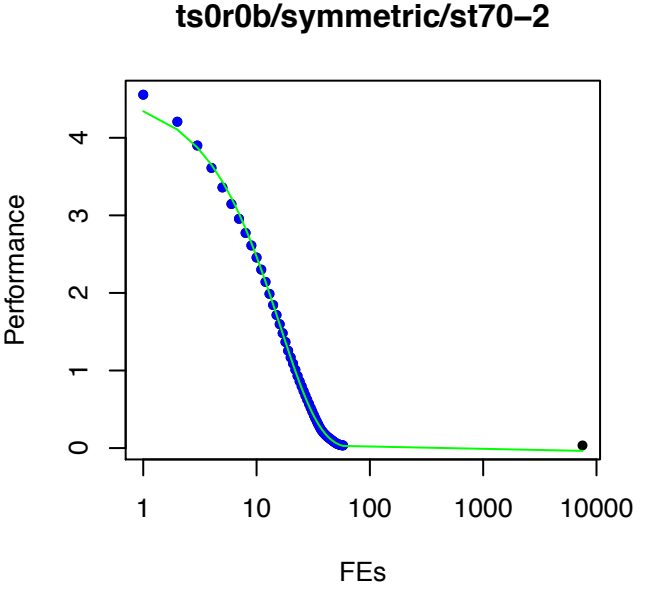
10000
FEs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Performance
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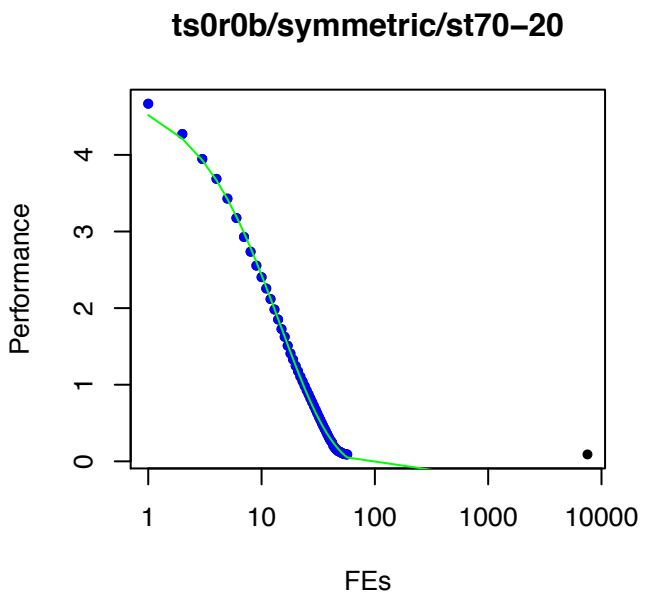
10000
FEs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Performance
FEs
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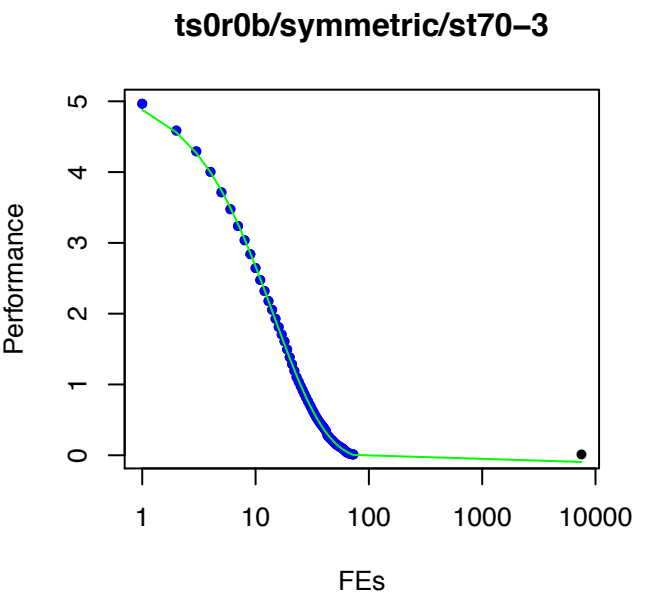
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Performance
FEs
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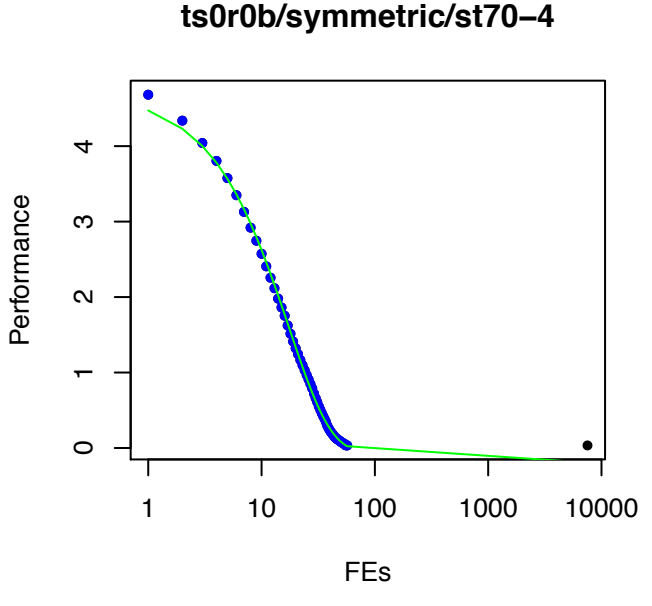
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Performance
FEs
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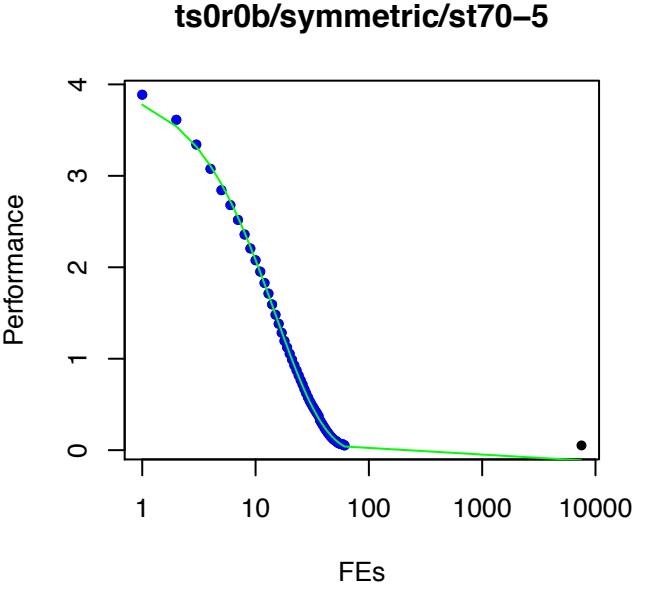
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Performance
FEs
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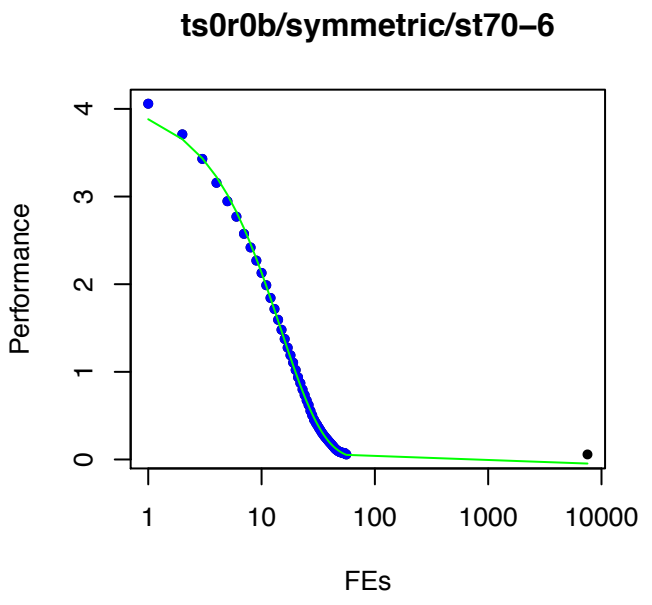
10000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Performance
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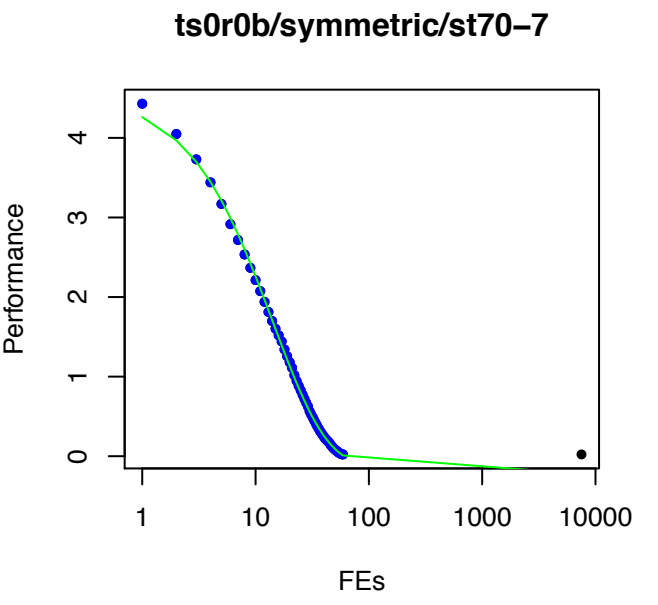
10000
FEs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Performance
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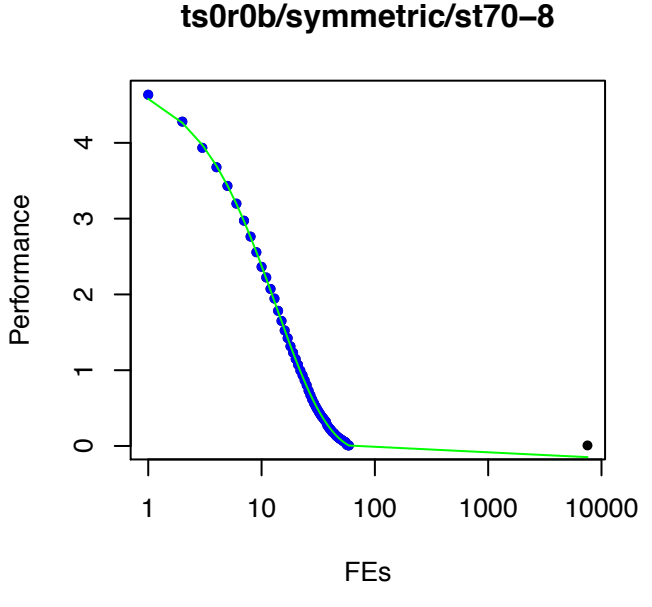
FEs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Performance
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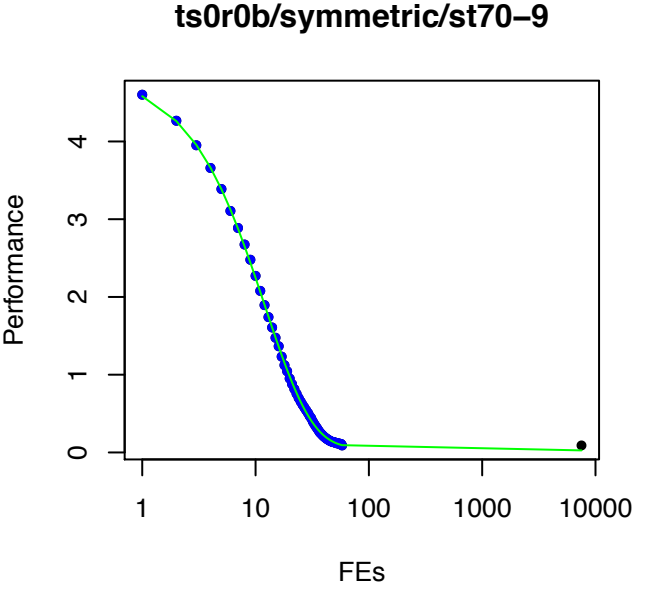
FEs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Performance
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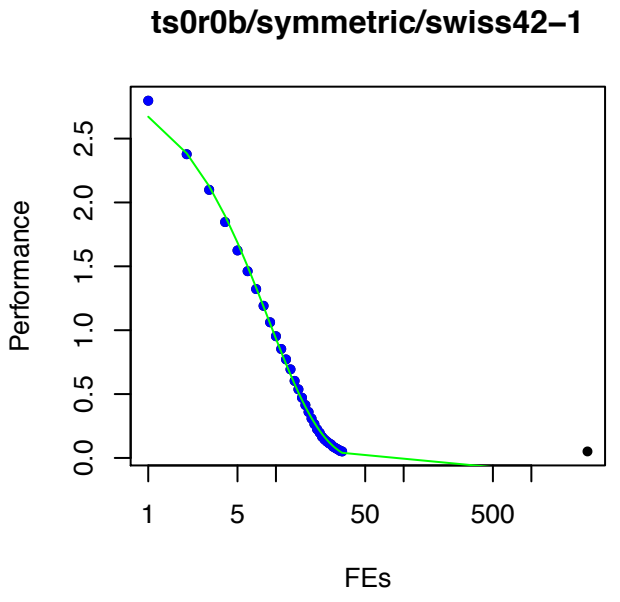
FEs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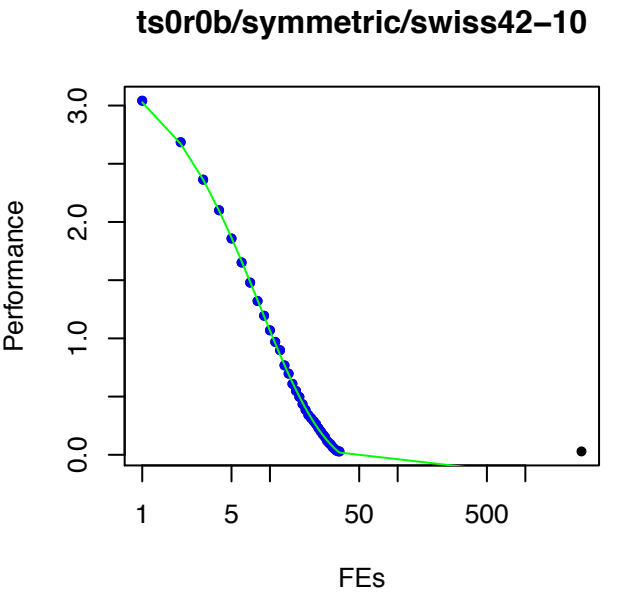
FEs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Performance
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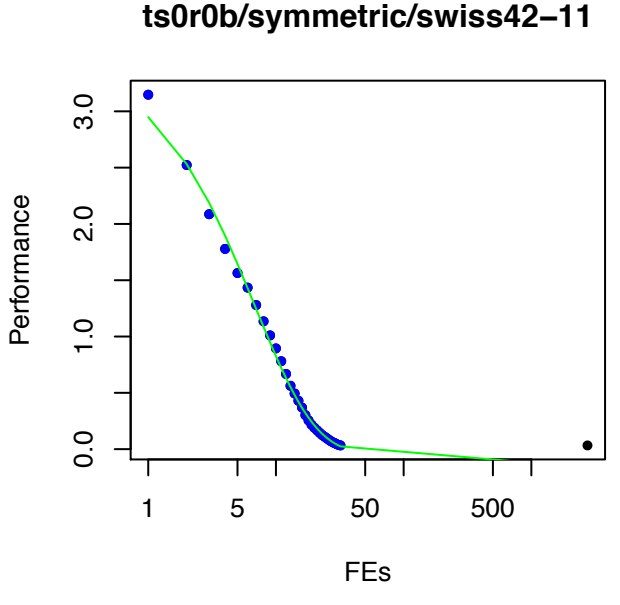
500
FEs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Performance
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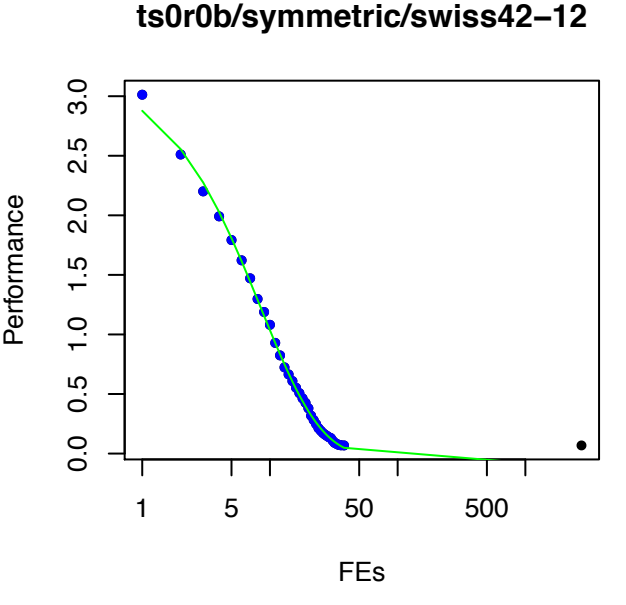
FEs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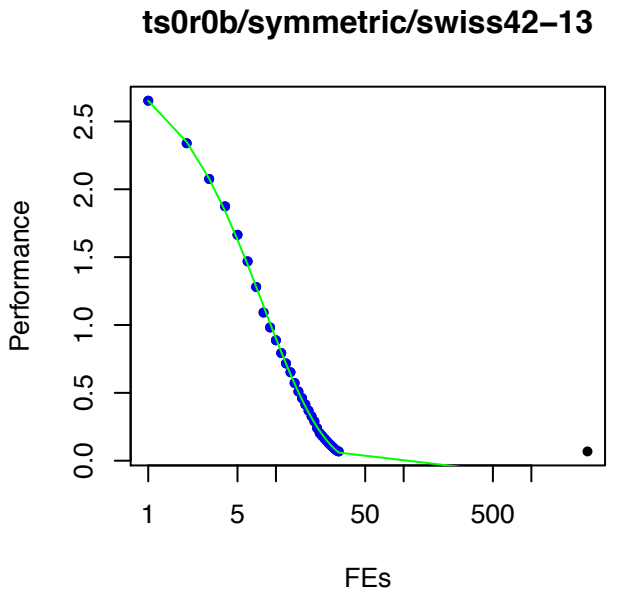
500
FEs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Performance
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2.5
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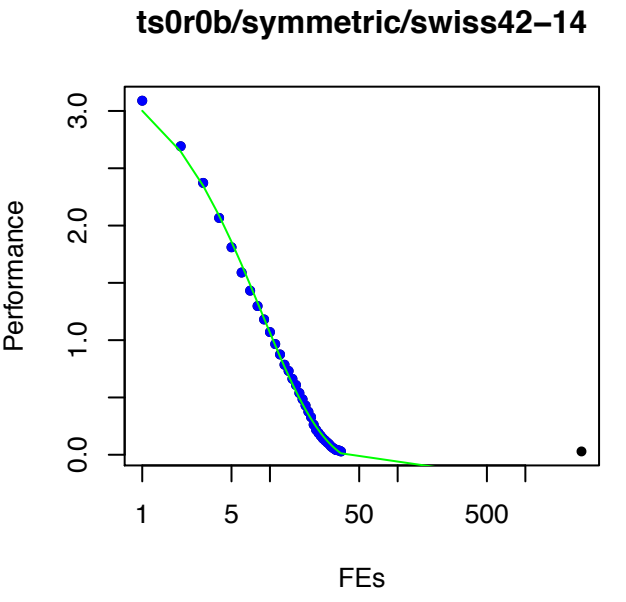
5
50
500
FEs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Performance
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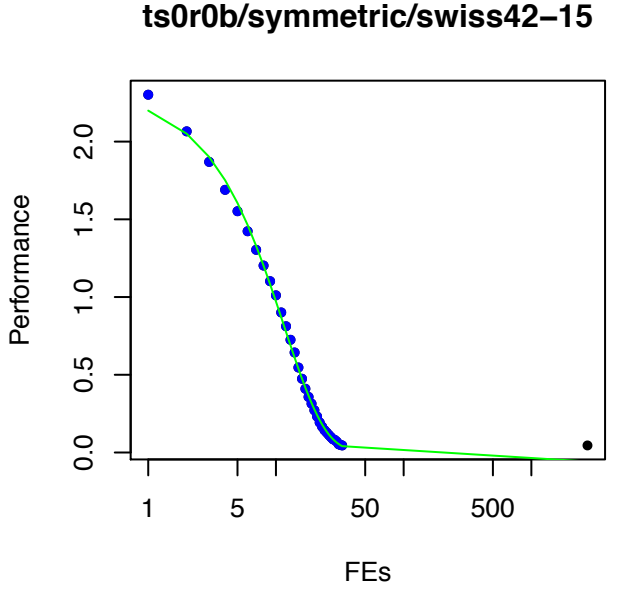
500
FEs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Performance
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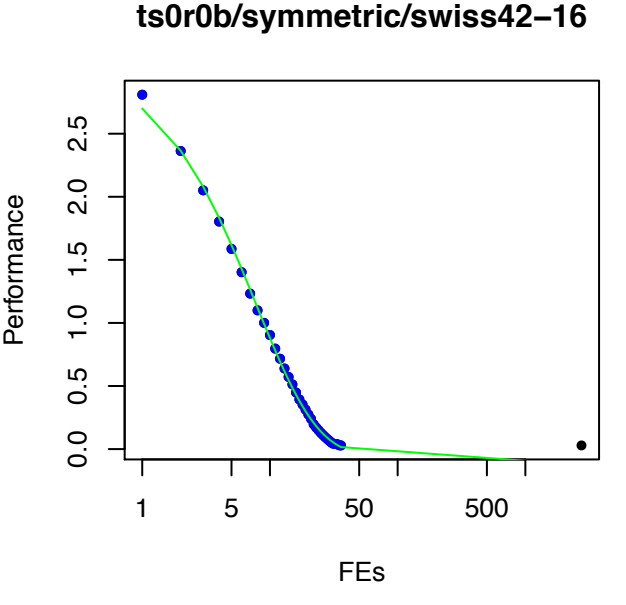
FEs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Performance
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2.0
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50
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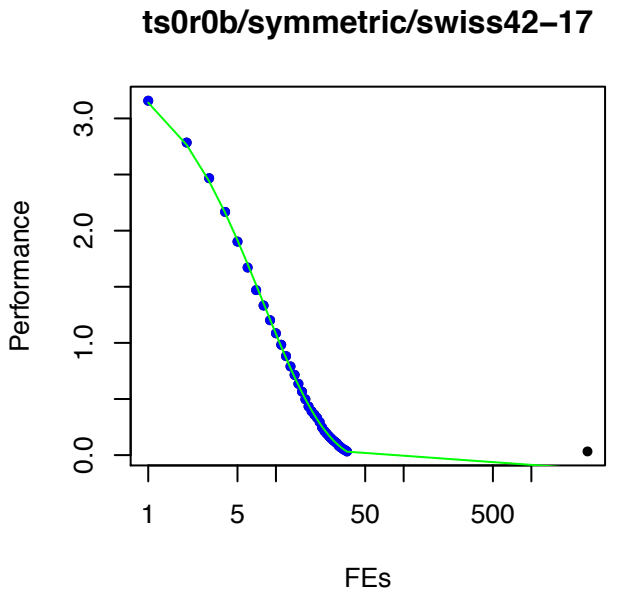
FEs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Performance
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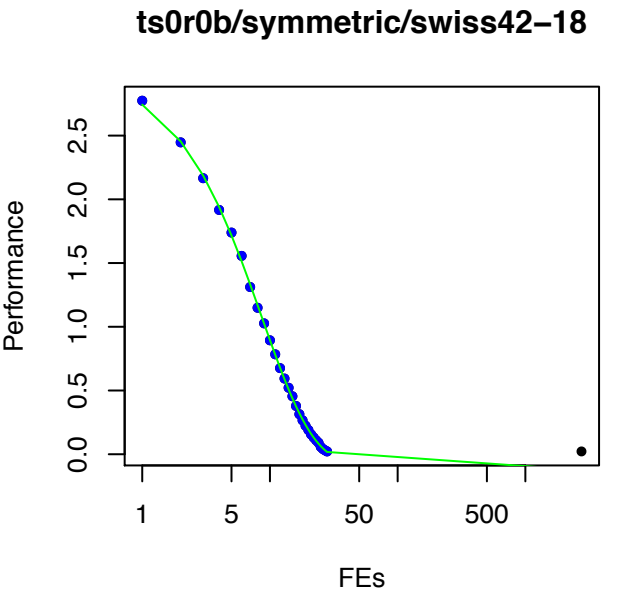
500
FEs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Performance
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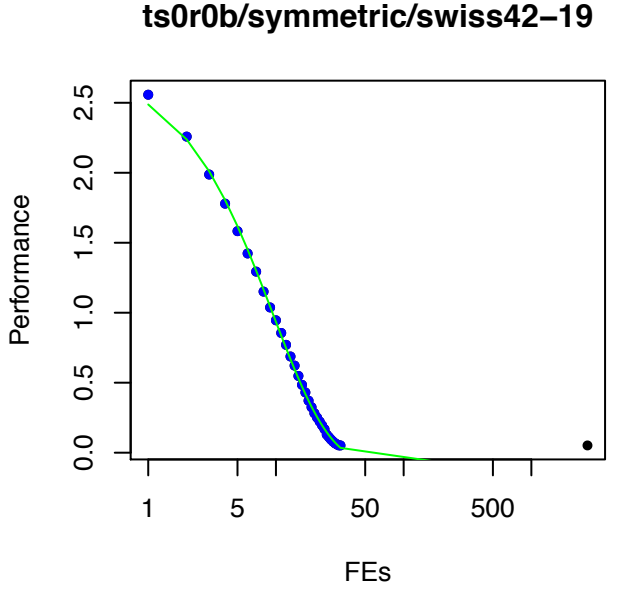
5
50
500
FEs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Performance
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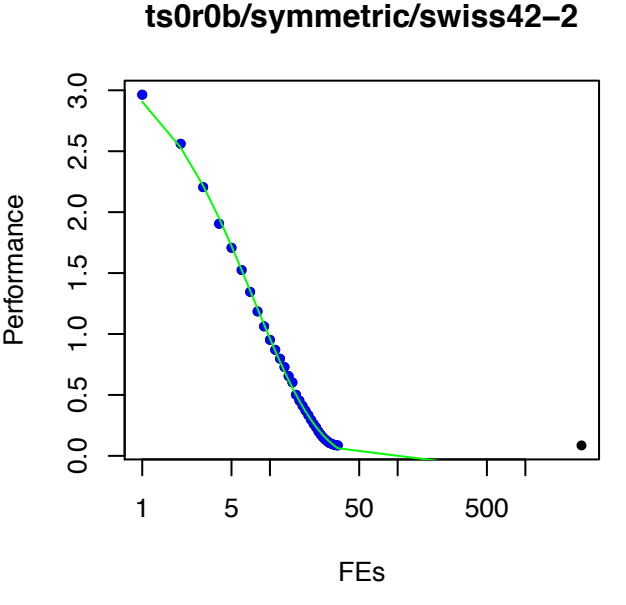
1.5
2.0
2.5
1
5
50
500
FEs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Performance
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2.5
3.0
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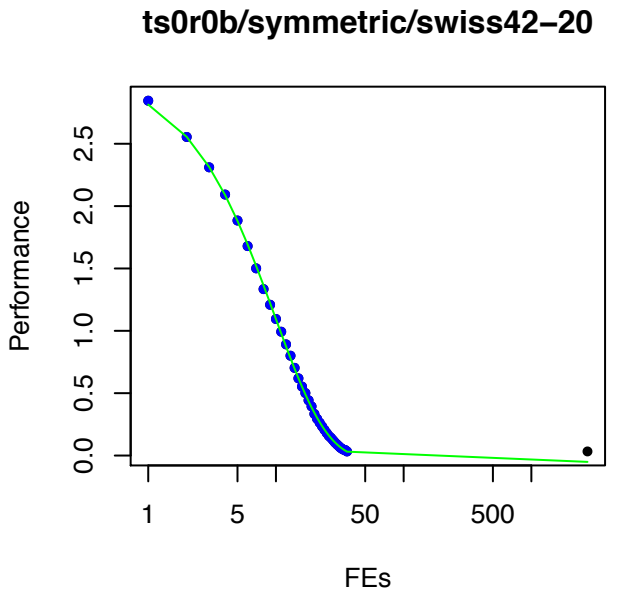
5
50
500
FEs


ts0r0b/symmetric/swiss42−20
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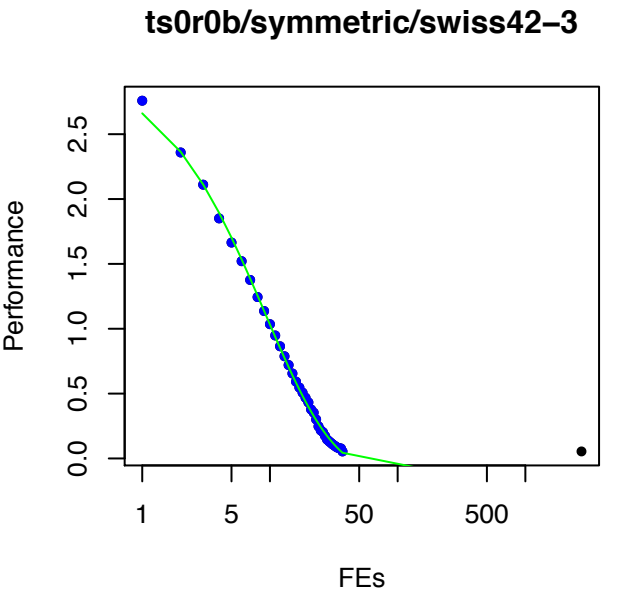
1.5
2.0
2.5
1
5
50
500
FEs


ts0r0b/symmetric/swiss42−3
Performance
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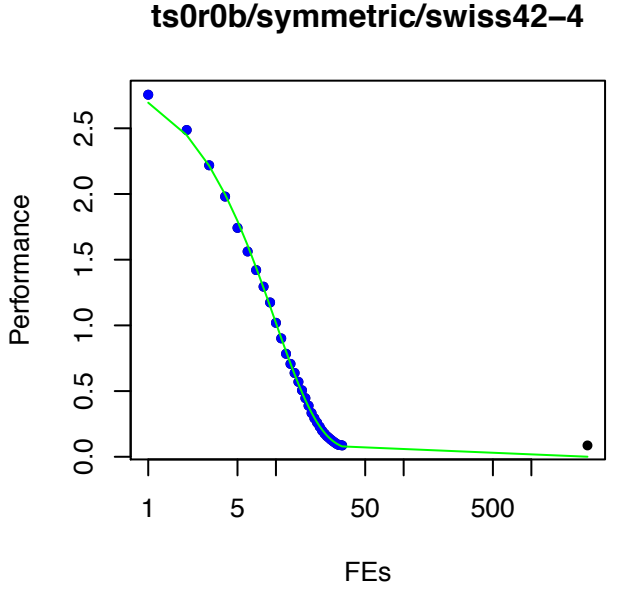
1.5
2.0
2.5
1
5
50
500
FEs


ts0r0b/symmetric/swiss42−4
Performance
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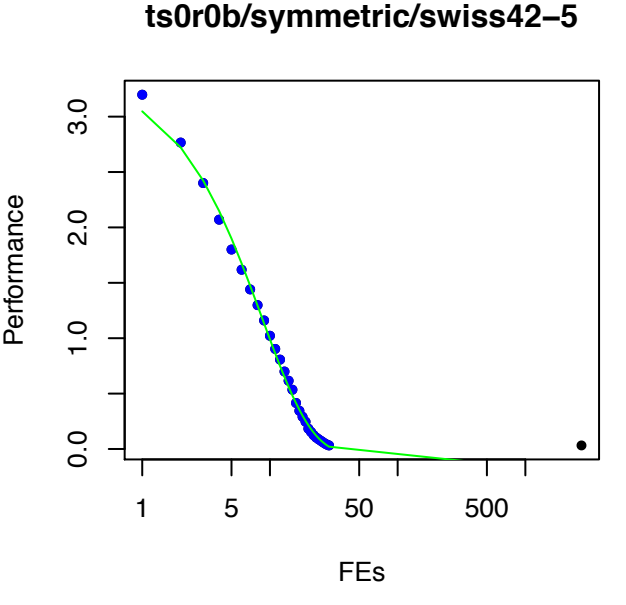
0.5
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts0r0b/symmetric/swiss42−5
Performance
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1.0
2.0
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1
5
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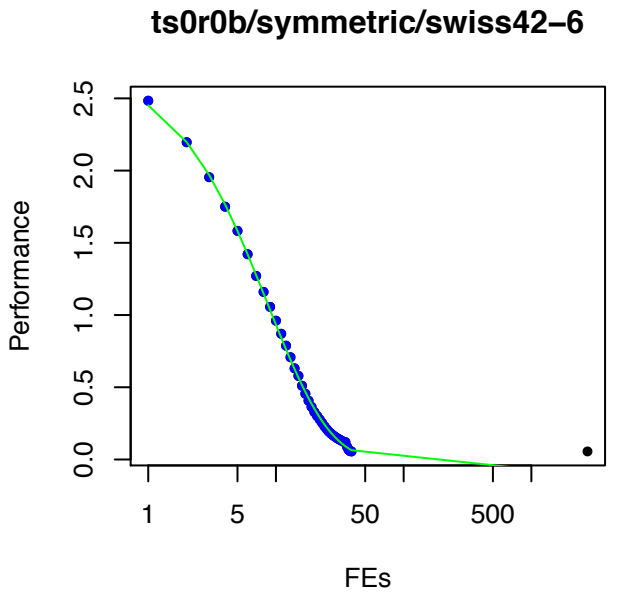
500
FEs


ts0r0b/symmetric/swiss42−6
Performance
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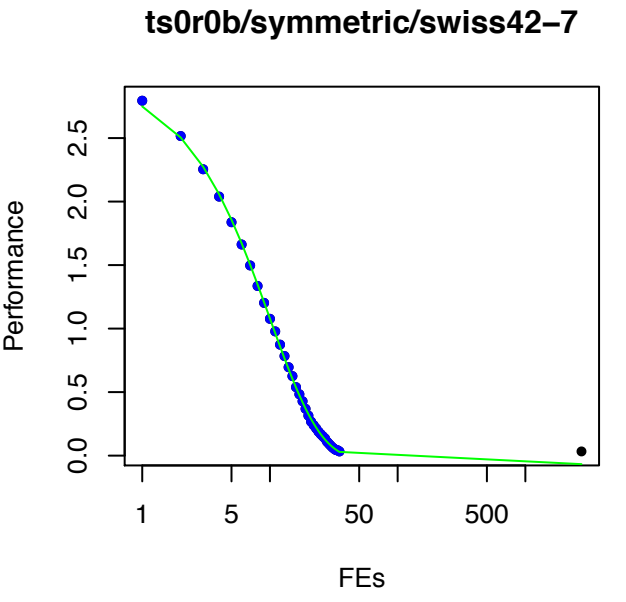
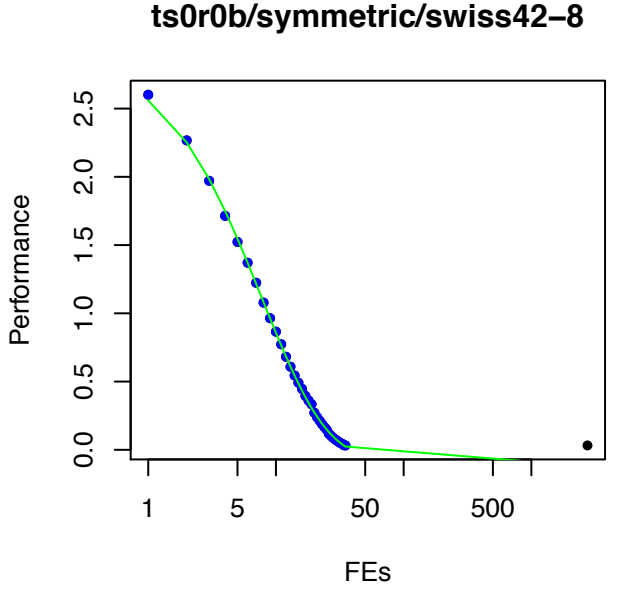
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts0r0b/symmetric/swiss42−7
Performance
0.0
0.5
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts0r0b/symmetric/swiss42−8
Performance
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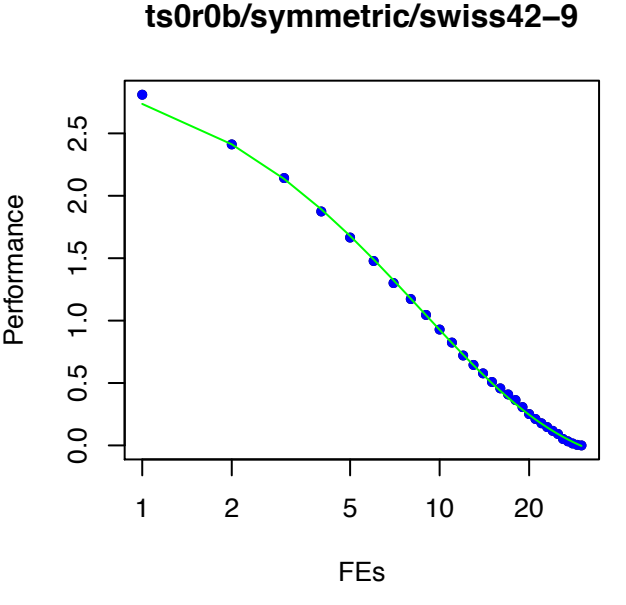
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts0r0b/symmetric/swiss42−9
Performance
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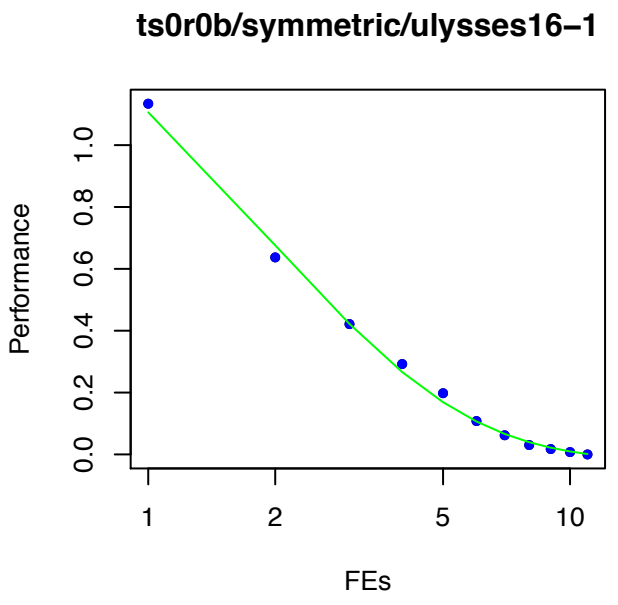
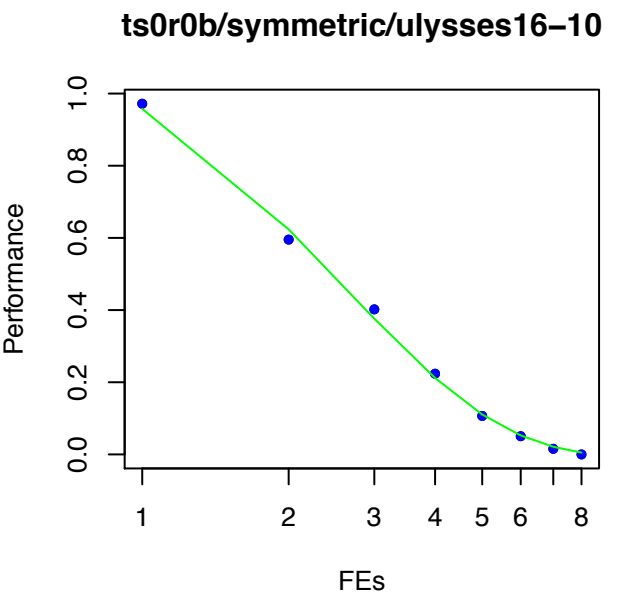
1.0
1.5
2.0
2.5
1
2
5
10
20
FEs


ts0r0b/symmetric/ulysses16−1
Performance
0.0
0.2
0.4
0.6
0.8
1.0
1
2
5
10
FEs


ts0r0b/symmetric/ulysses16−10
Performance
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0.4
0.6
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1.0
1
2
3
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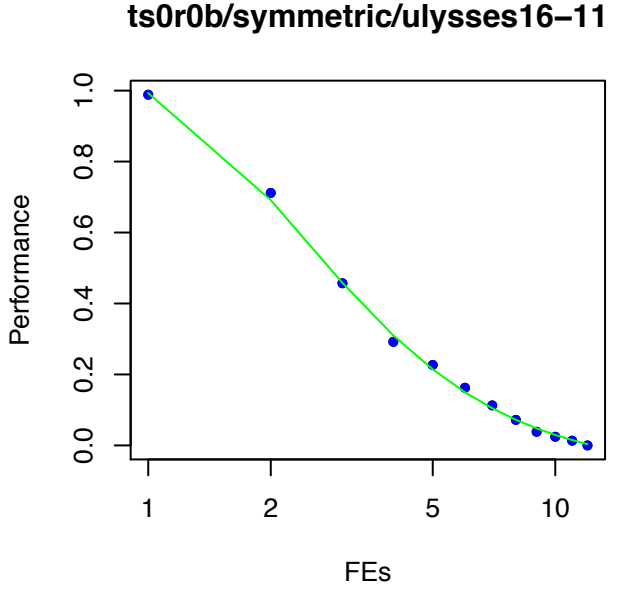
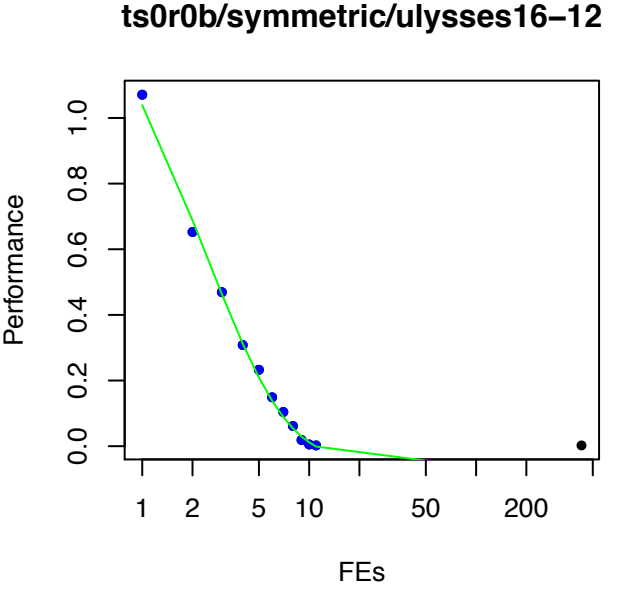
5
6
8
FEs


ts0r0b/symmetric/ulysses16−11
Performance
0.0
0.2
0.4
0.6
0.8
1.0
1
2
5
10
FEs


ts0r0b/symmetric/ulysses16−12
Performance
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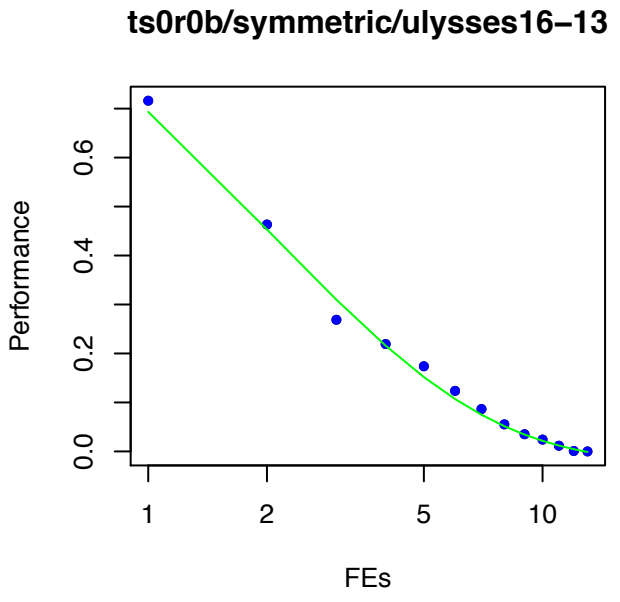
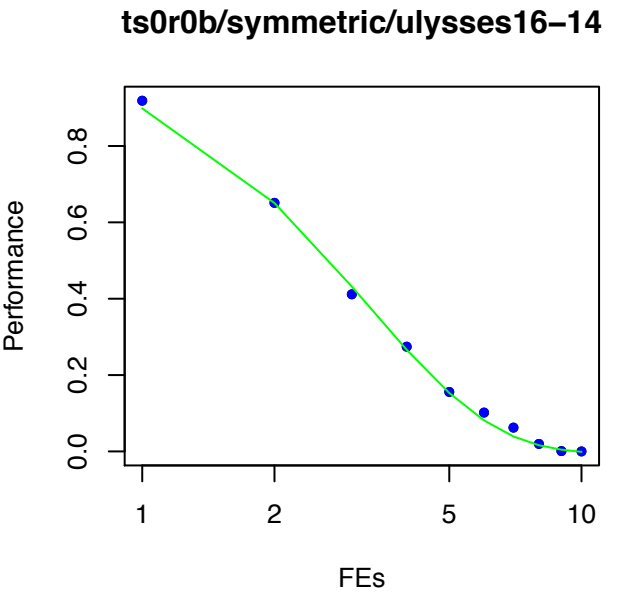
0.4
0.6
0.8
1.0
1
2
5
10
50
200
FEs


ts0r0b/symmetric/ulysses16−13
Performance
0.0
0.2
0.4
0.6
1
2
5
10
FEs


ts0r0b/symmetric/ulysses16−14
Performance
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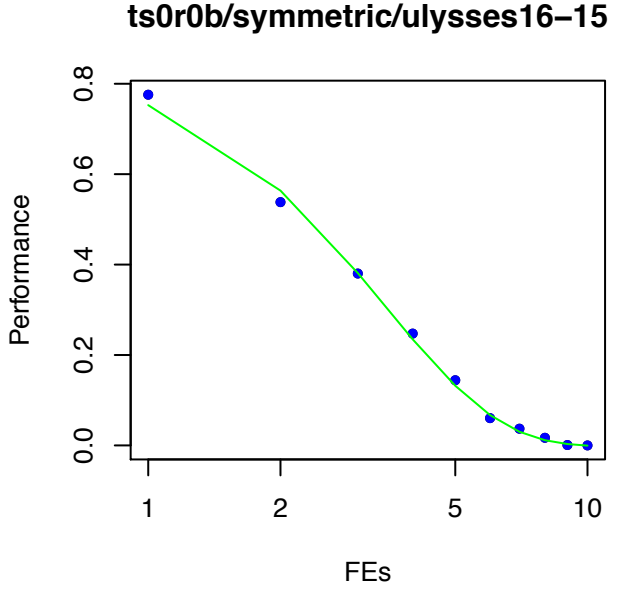
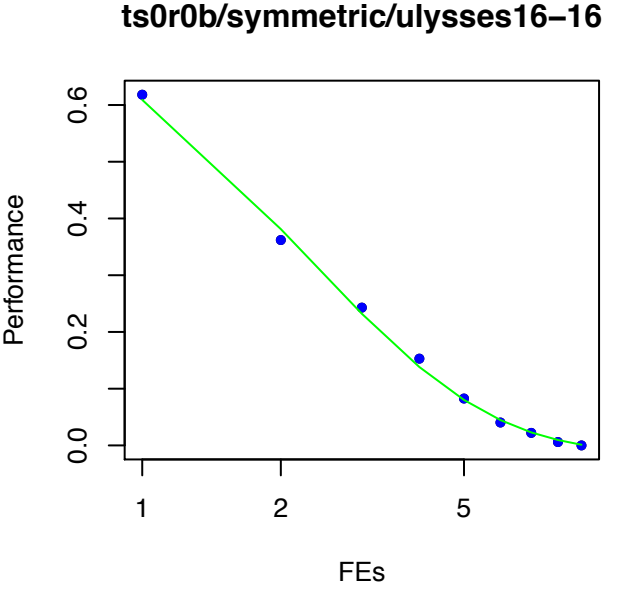
0.2
0.4
0.6
0.8
1
2
5
10
FEs


ts0r0b/symmetric/ulysses16−15
Performance
0.0
0.2
0.4
0.6
0.8
1
2
5
10
FEs


ts0r0b/symmetric/ulysses16−16
Performance
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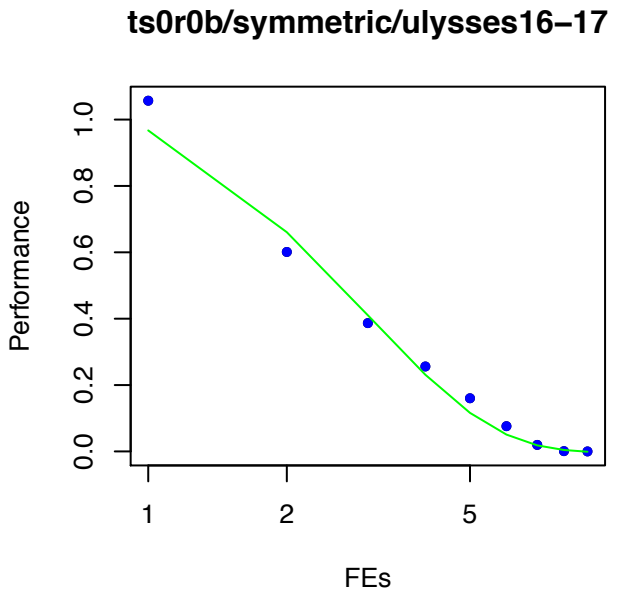
0.4
0.6
1
2
5
FEs


ts0r0b/symmetric/ulysses16−17
Performance
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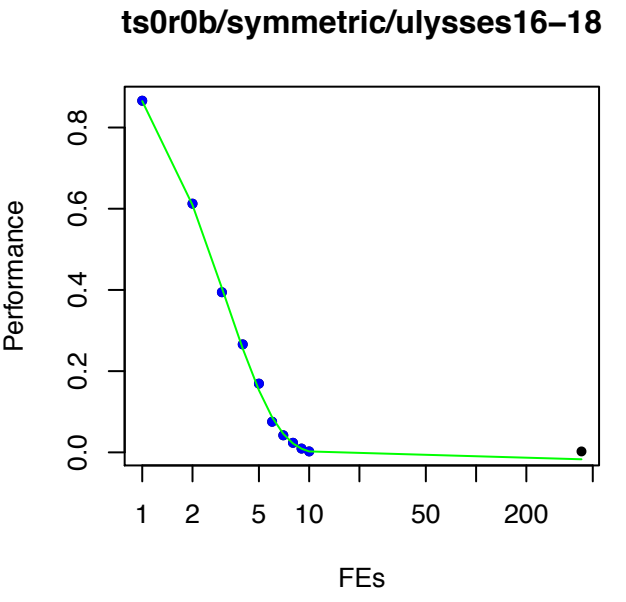
0.2
0.4
0.6
0.8
1.0
1
2
5
FEs


ts0r0b/symmetric/ulysses16−18
Performance
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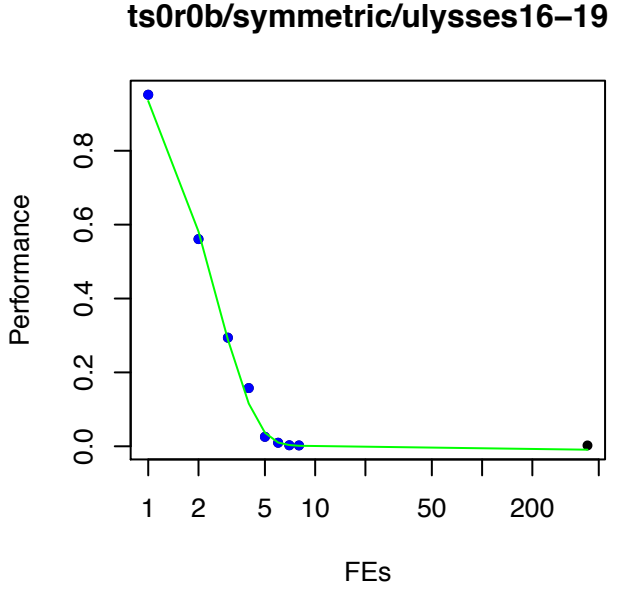
0.2
0.4
0.6
0.8
1
2
5
10
50
200
FEs


ts0r0b/symmetric/ulysses16−19
Performance
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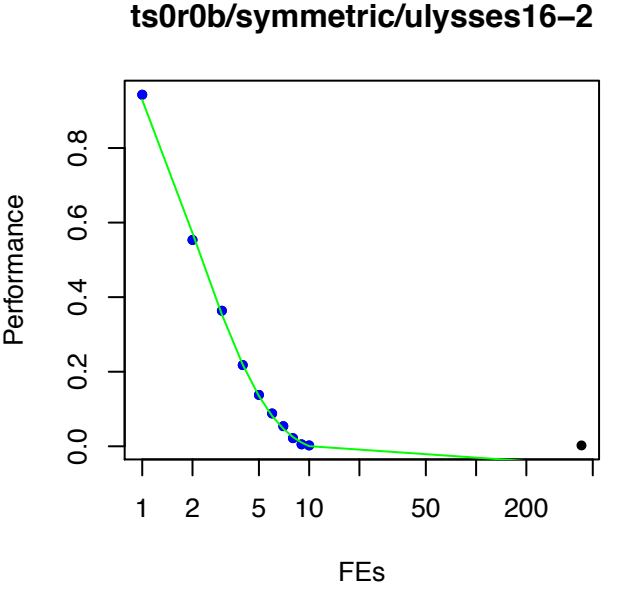
0.4
0.6
0.8
1
2
5
10
50
200
FEs


ts0r0b/symmetric/ulysses16−2
Performance
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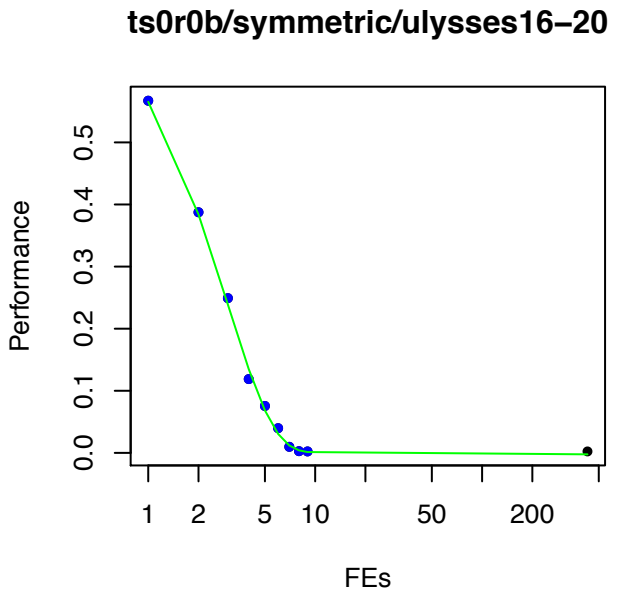
0.4
0.6
0.8
1
2
5
10
50
200
FEs


ts0r0b/symmetric/ulysses16−20
Performance
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0.3
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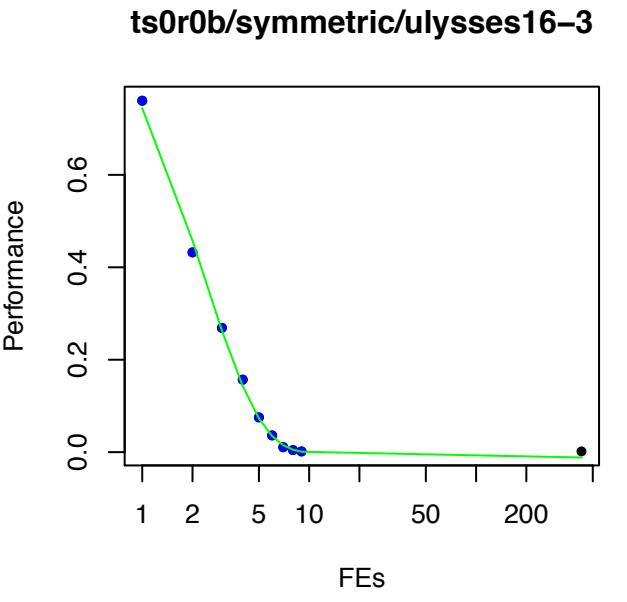
1
2
5
10
50
200
FEs


ts0r0b/symmetric/ulysses16−3
Performance
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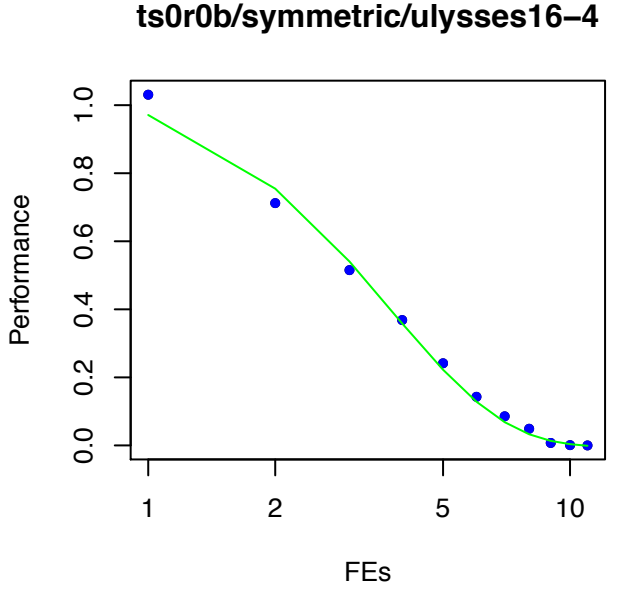
0.2
0.4
0.6
1
2
5
10
50
200
FEs


ts0r0b/symmetric/ulysses16−4
Performance
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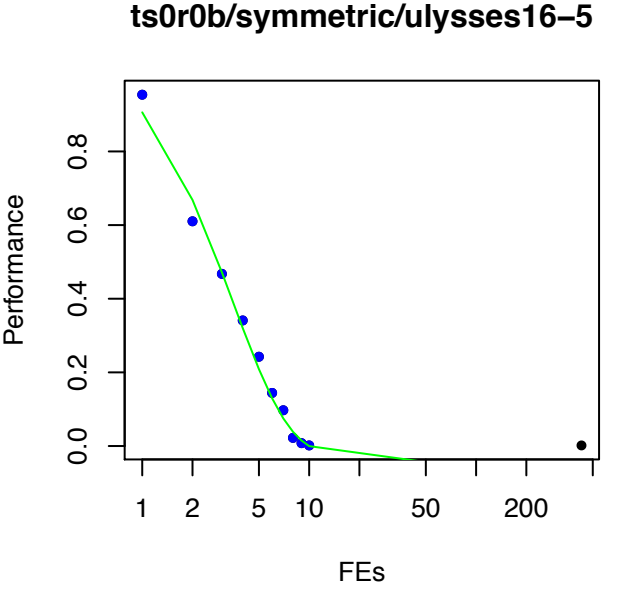
0.2
0.4
0.6
0.8
1.0
1
2
5
10
FEs


ts0r0b/symmetric/ulysses16−5
Performance
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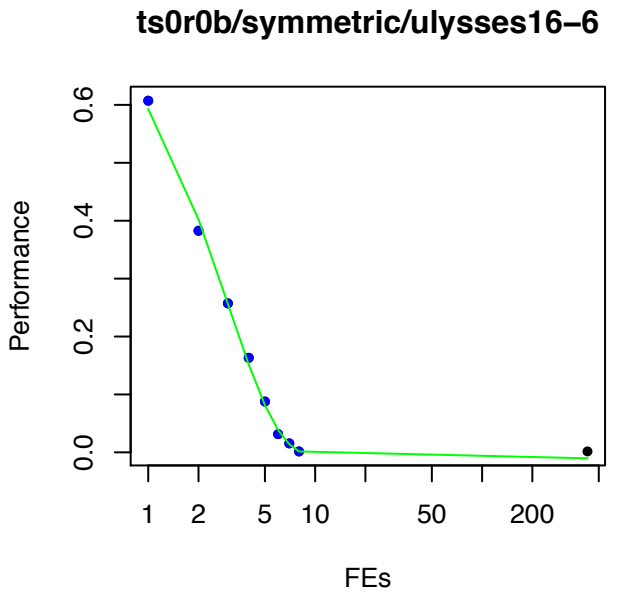
0.4
0.6
0.8
1
2
5
10
50
200
FEs


ts0r0b/symmetric/ulysses16−6
Performance
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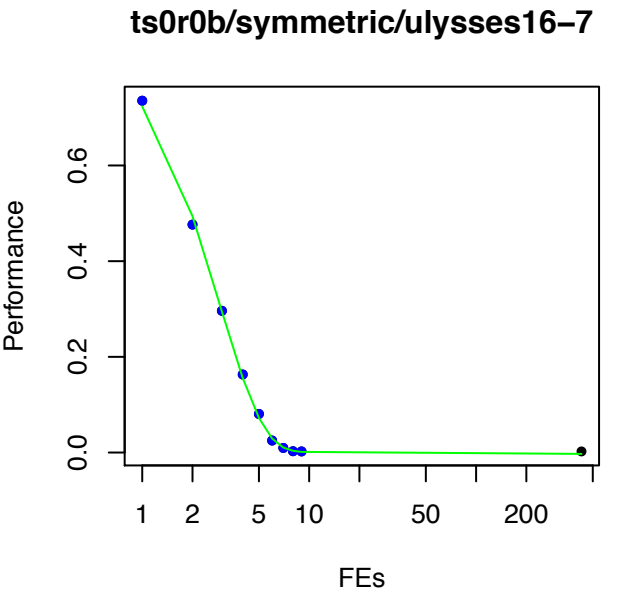
1
2
5
10
50
200
FEs


ts0r0b/symmetric/ulysses16−7
Performance
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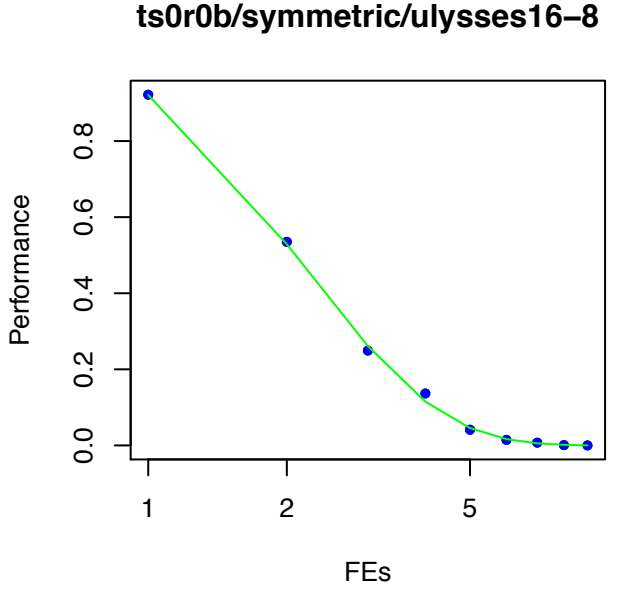
0.6
1
2
5
10
50
200
FEs


ts0r0b/symmetric/ulysses16−8
Performance
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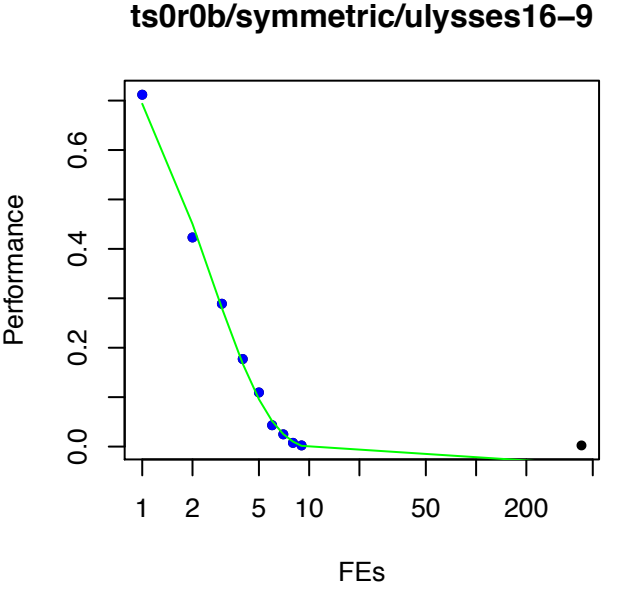
0.6
0.8
1
2
5
FEs


ts0r0b/symmetric/ulysses16−9
Performance
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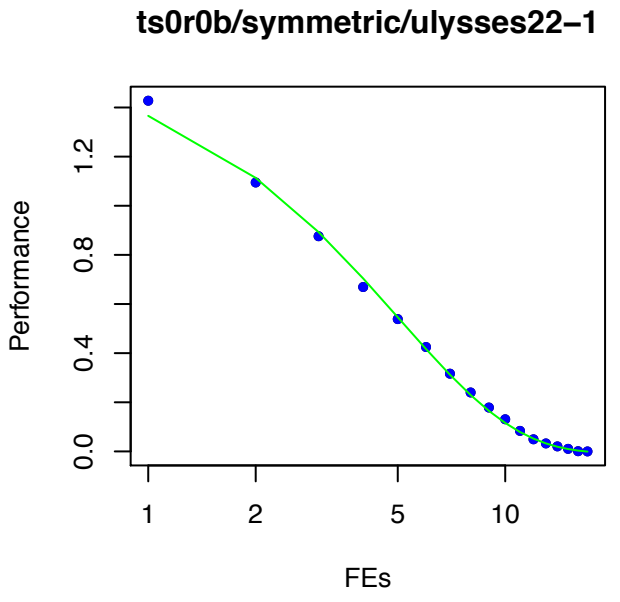
200
FEs


ts0r0b/symmetric/ulysses22−1
Performance
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0.8
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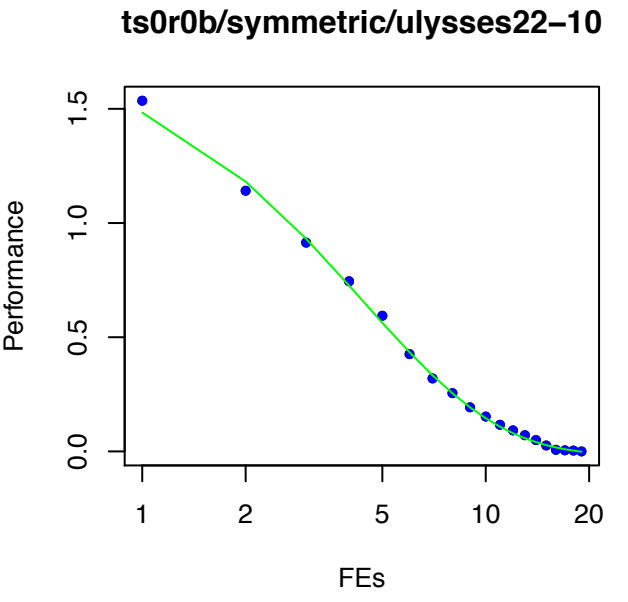
1
2
5
10
FEs


ts0r0b/symmetric/ulysses22−10
Performance
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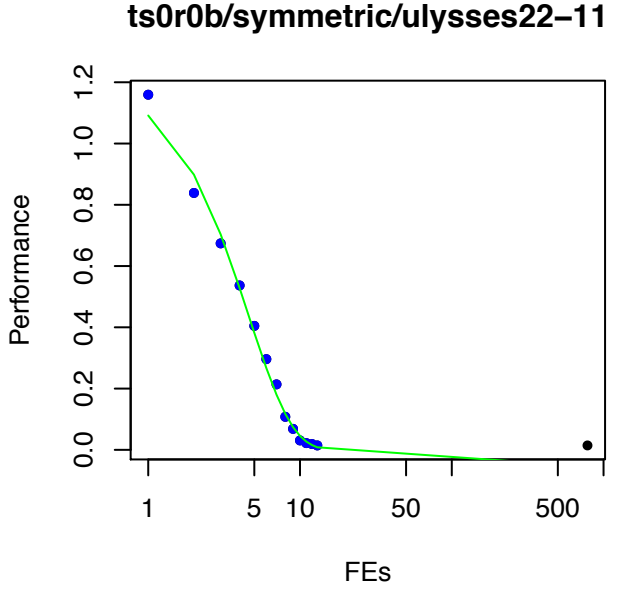
1.5
1
2
5
10
20
FEs


ts0r0b/symmetric/ulysses22−11
Performance
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0.4
0.6
0.8
1.0
1.2
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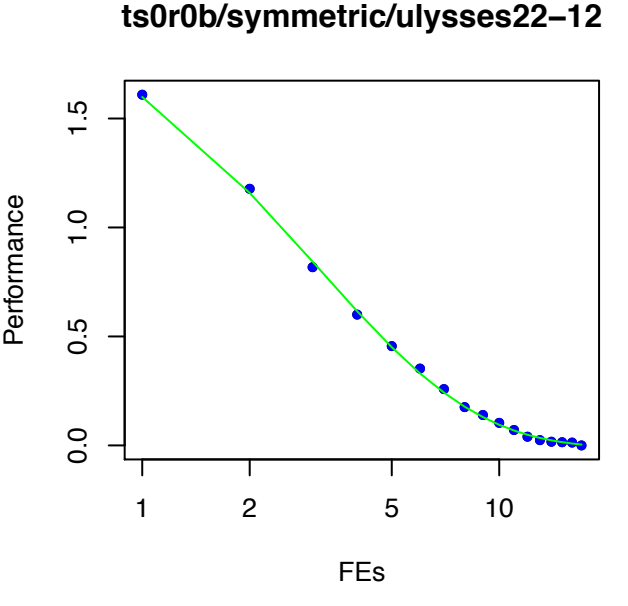
500
FEs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Performance
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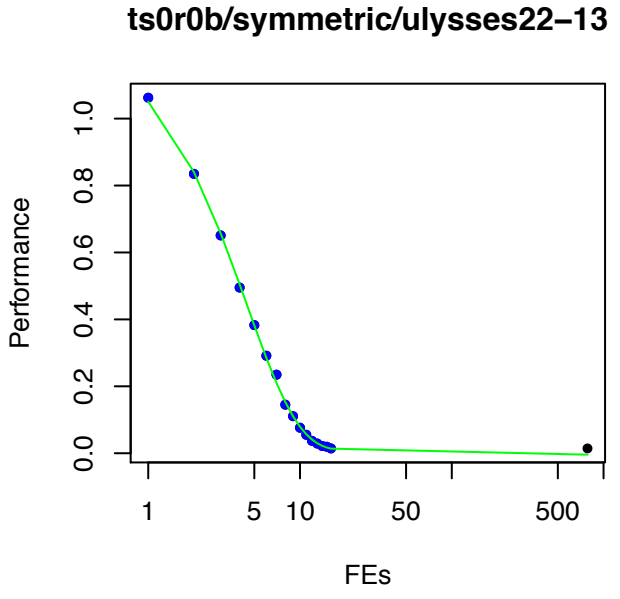
1.5
1
2
5
10
FEs


ts0r0b/symmetric/ulysses22−13
Performance
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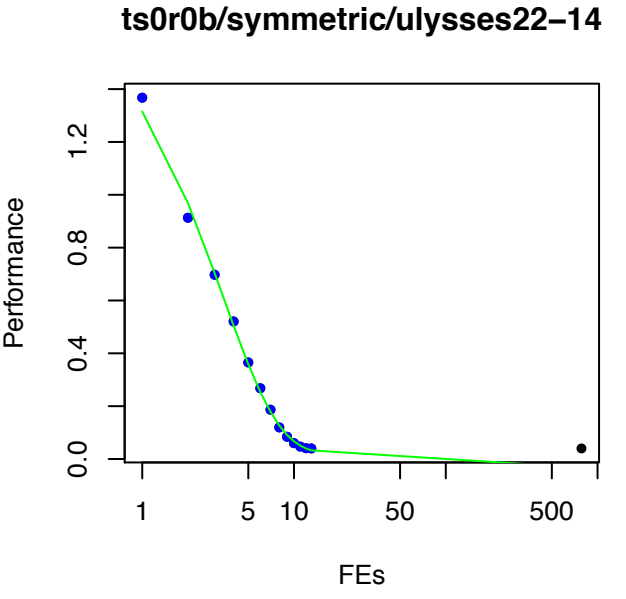
0.4
0.6
0.8
1.0
1
5
10
50
500
FEs


ts0r0b/symmetric/ulysses22−14
Performance
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0.8
1.2
1
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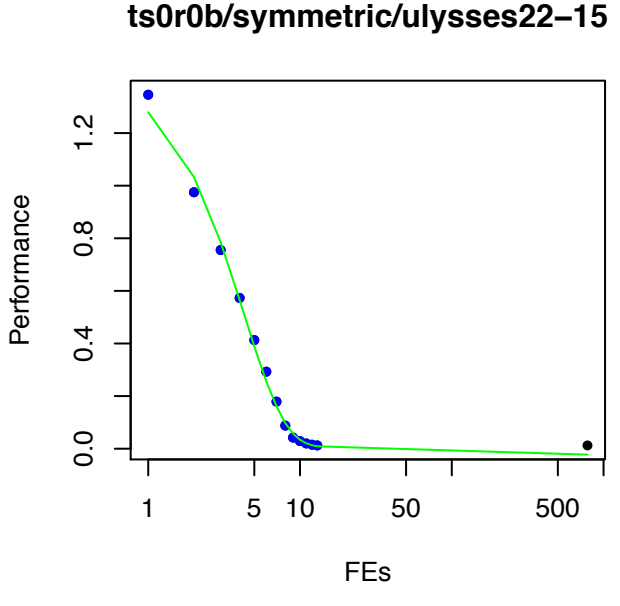
10
50
500
FEs


ts0r0b/symmetric/ulysses22−15
Performance
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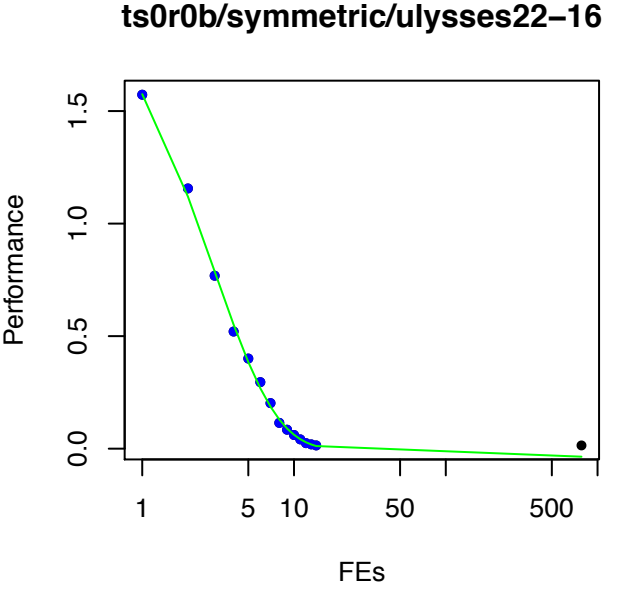
0.8
1.2
1
5
10
50
500
FEs


ts0r0b/symmetric/ulysses22−16
Performance
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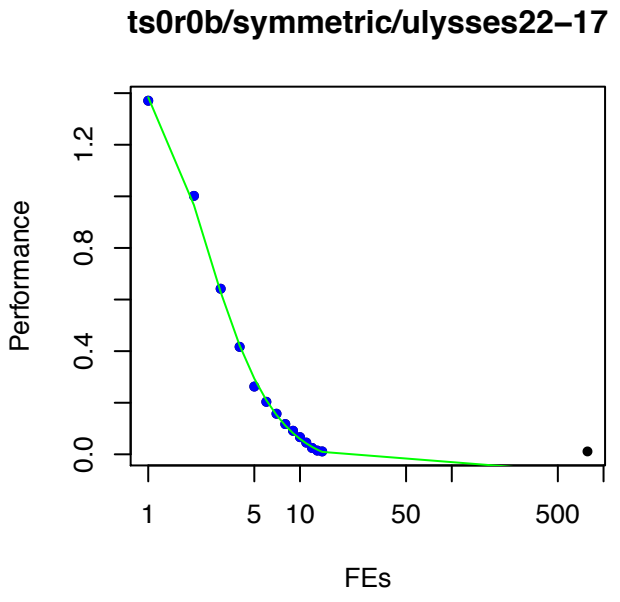
1.5
1
5
10
50
500
FEs


ts0r0b/symmetric/ulysses22−17
Performance
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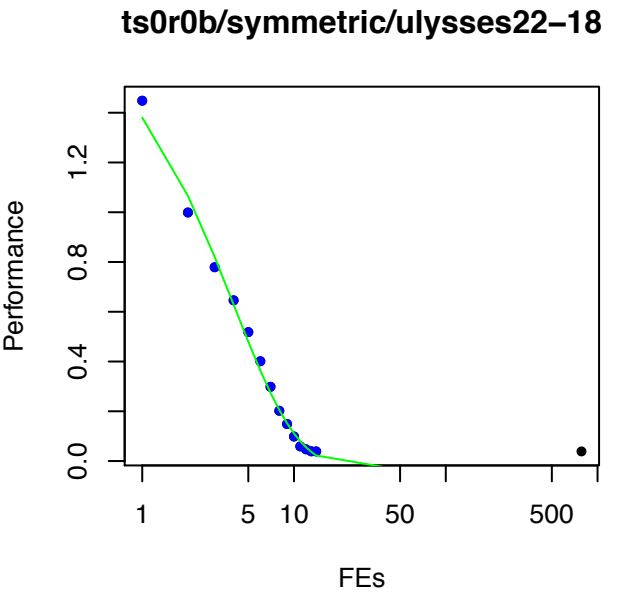
0.8
1.2
1
5
10
50
500
FEs


ts0r0b/symmetric/ulysses22−18
Performance
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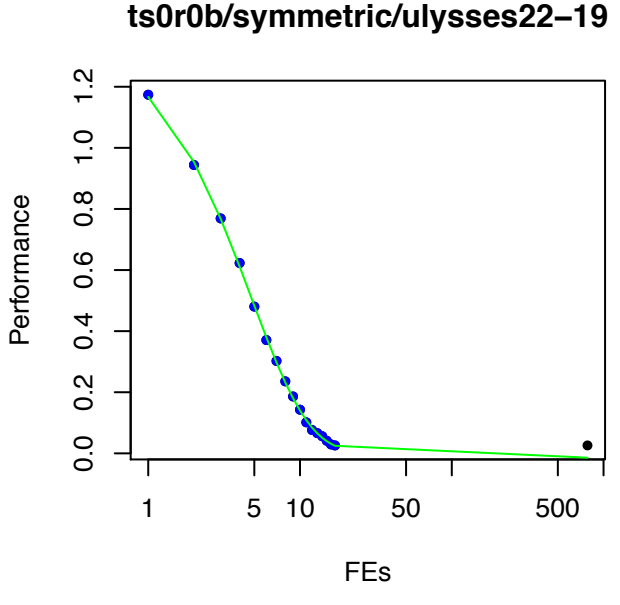
0.4
0.8
1.2
1
5
10
50
500
FEs


ts0r0b/symmetric/ulysses22−19
Performance
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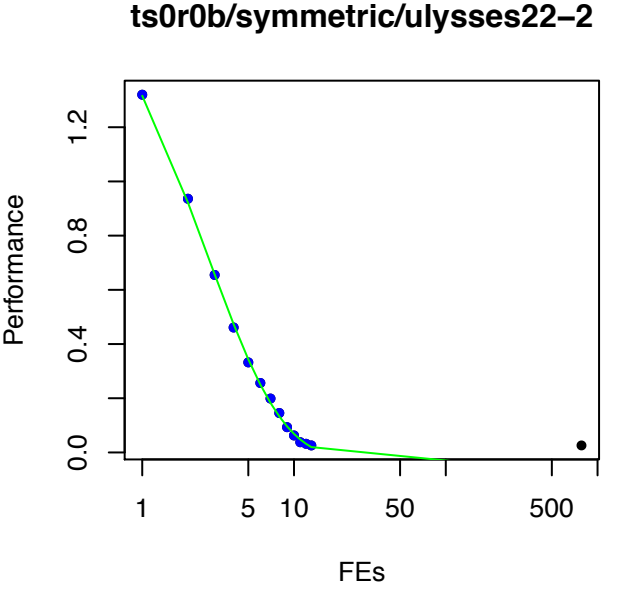
0.2
0.4
0.6
0.8
1.0
1.2
1
5
10
50
500
FEs


ts0r0b/symmetric/ulysses22−2
Performance
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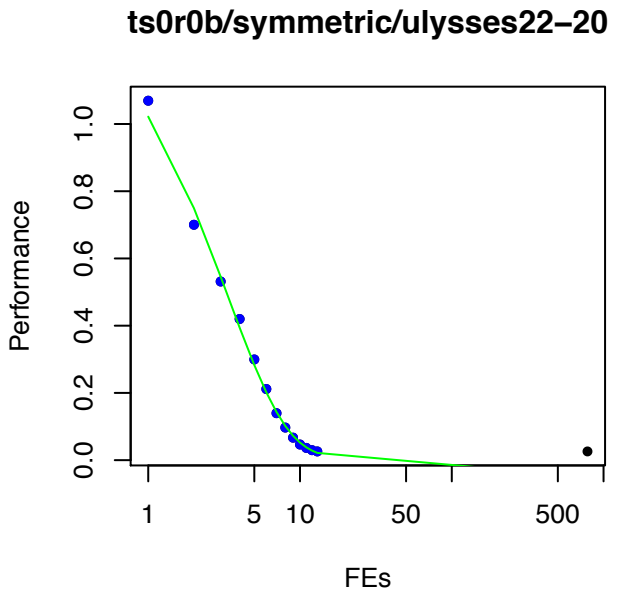
0.8
1.2
1
5
10
50
500
FEs


ts0r0b/symmetric/ulysses22−20
Performance
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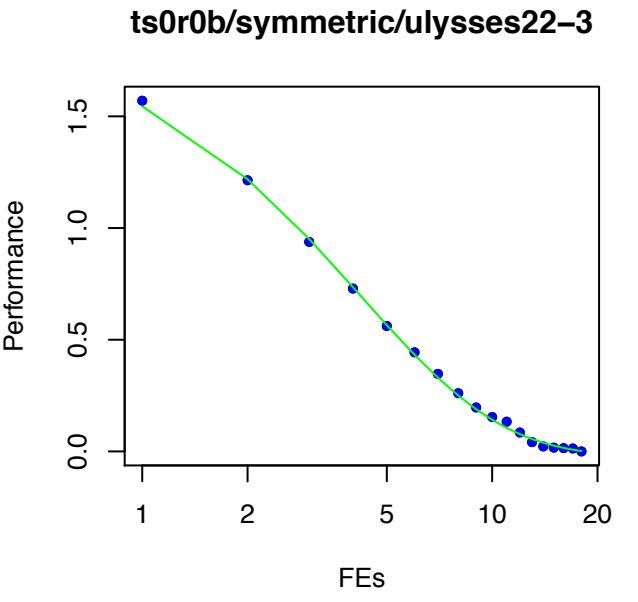
0.4
0.6
0.8
1.0
1
5
10
50
500
FEs


ts0r0b/symmetric/ulysses22−3
Performance
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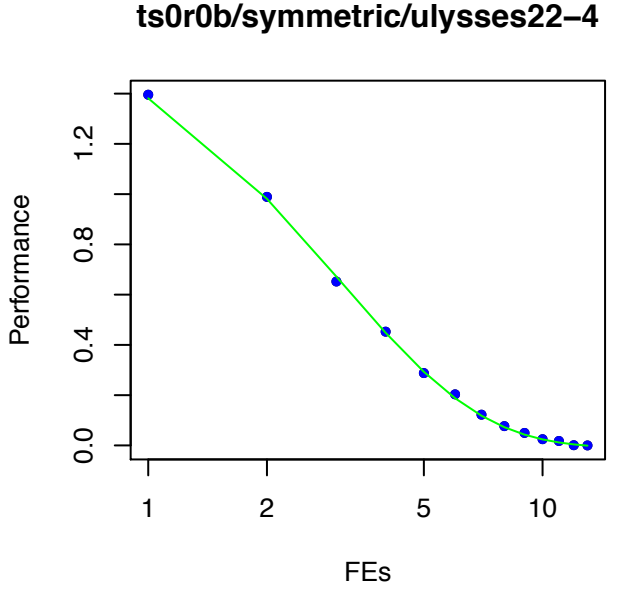
0.5
1.0
1.5
1
2
5
10
20
FEs


ts0r0b/symmetric/ulysses22−4
Performance
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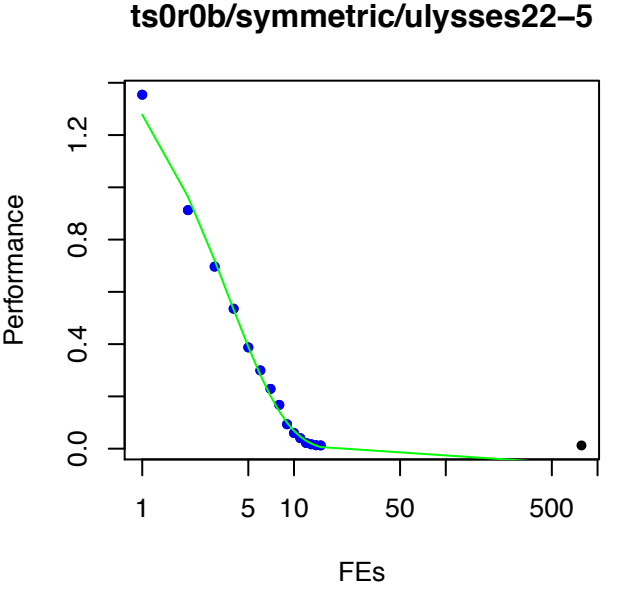
0.4
0.8
1.2
1
2
5
10
FEs


ts0r0b/symmetric/ulysses22−5
Performance
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0.4
0.8
1.2
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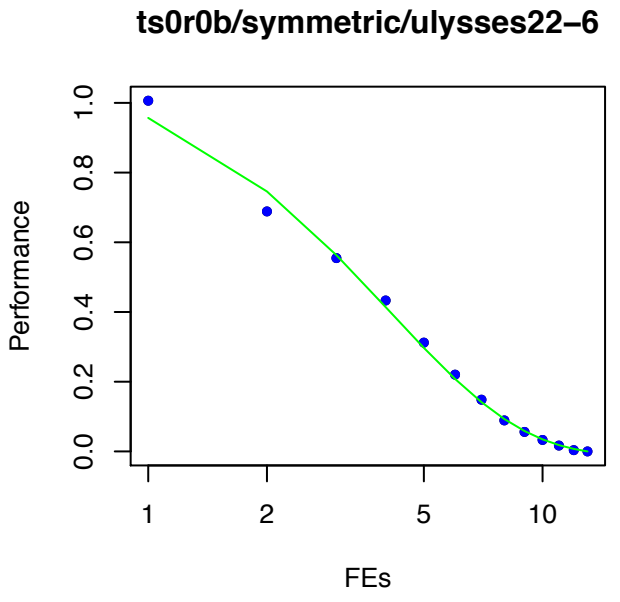
10
50
500
FEs


ts0r0b/symmetric/ulysses22−6
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0.6
0.8
1.0
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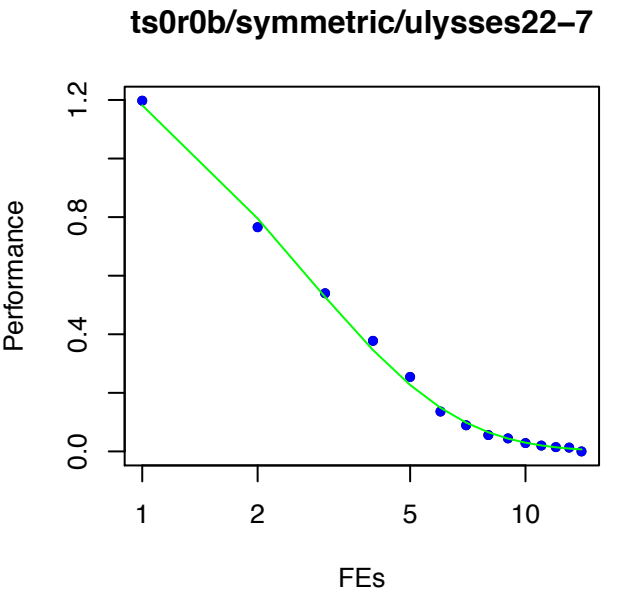
2
5
10
FEs


ts0r0b/symmetric/ulysses22−7
Performance
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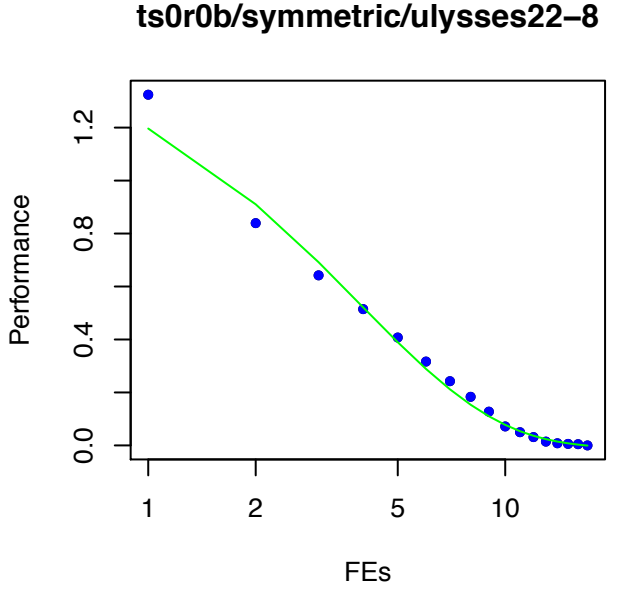
0.8
1.2
1
2
5
10
FEs


ts0r0b/symmetric/ulysses22−8
Performance
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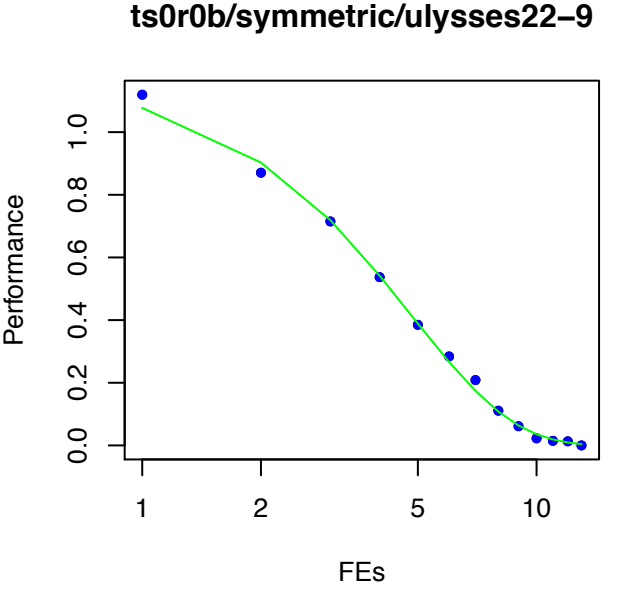
0.4
0.8
1.2
1
2
5
10
FEs


ts0r0b/symmetric/ulysses22−9
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0.6
0.8
1.0
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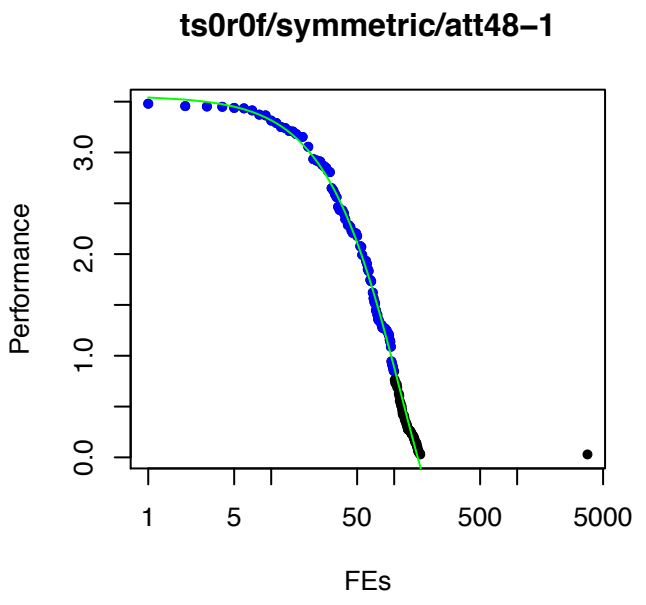
2
5
10
FEs


ts0r0f/symmetric/att48−1
Performance
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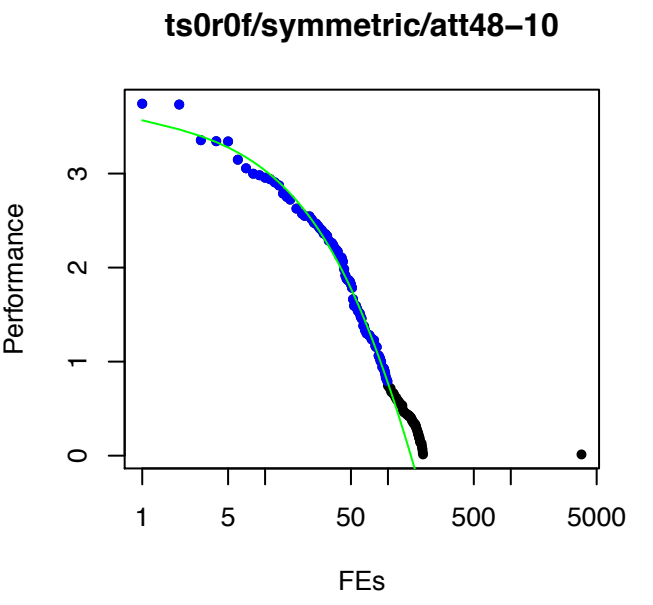
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/att48−10
Performance
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2
3
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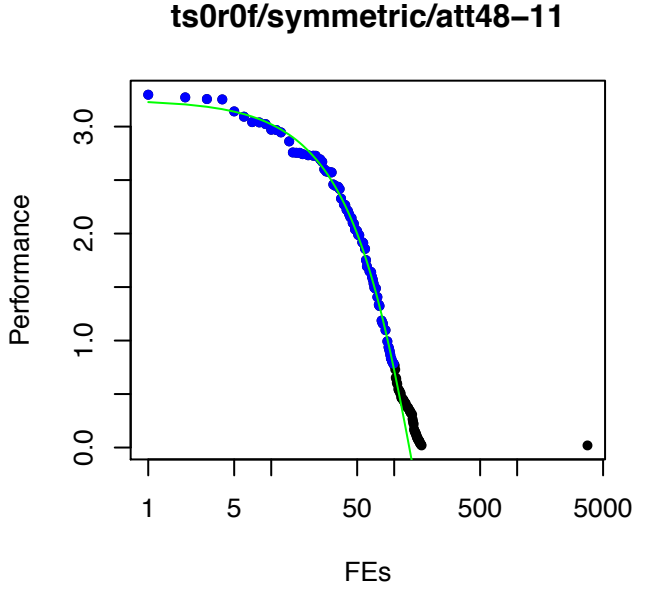
5000
FEs


ts0r0f/symmetric/att48−11
Performance
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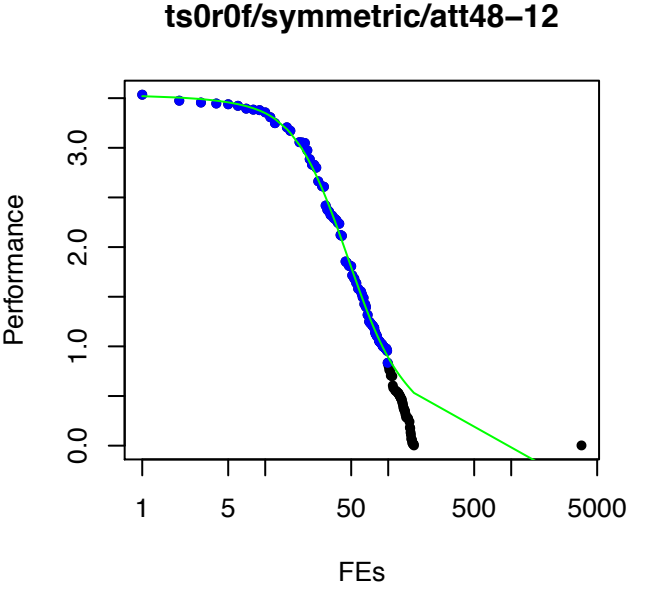
3.0
1
5
50
500
5000
FEs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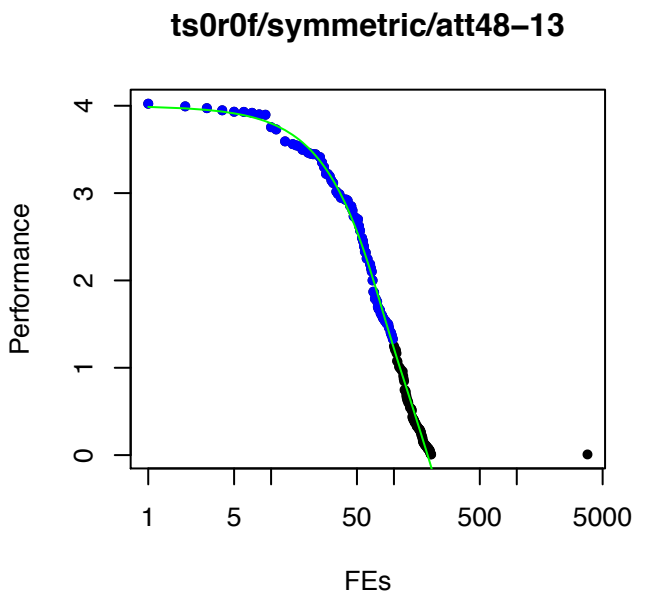
5000
FEs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Performance
FEs
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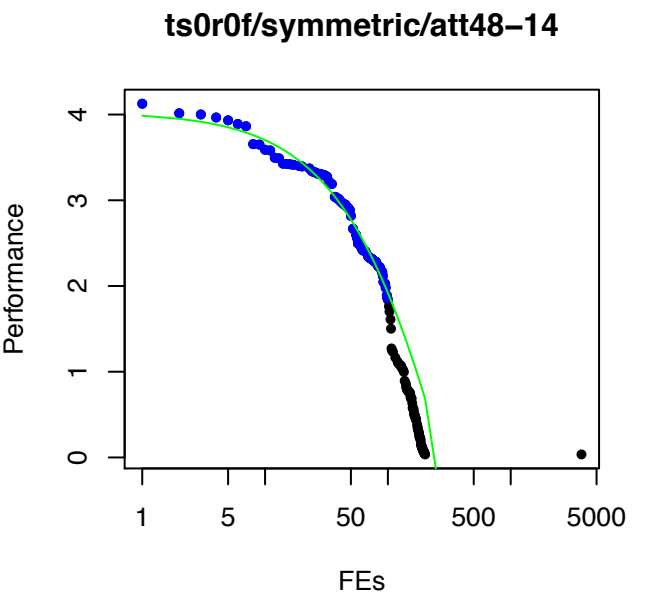
500
5000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Performance
FEs
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3
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5
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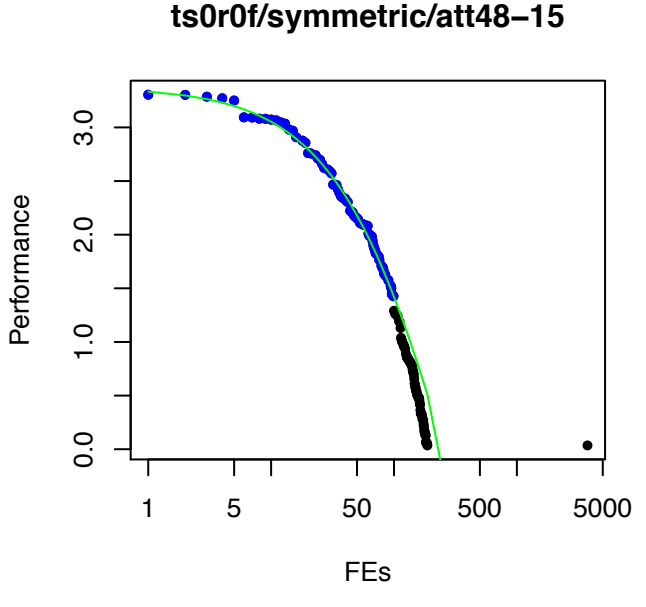
500
5000


ts0r0f/symmetric/att48−15
Performance
FEs
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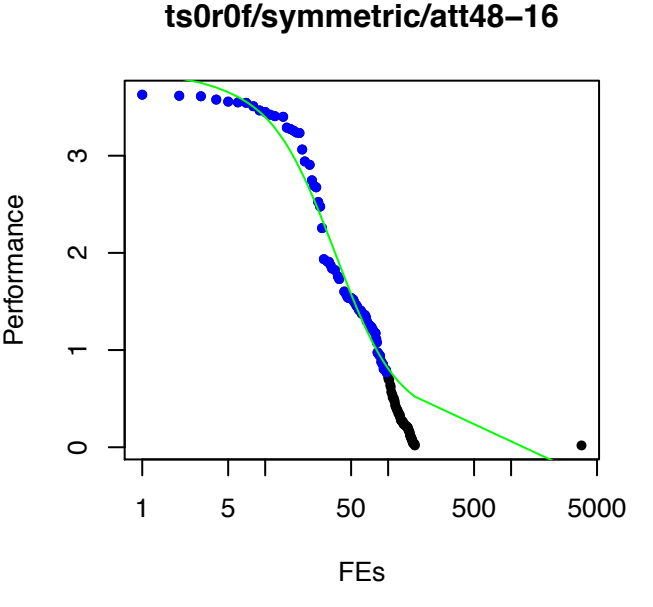
1.0
2.0
3.0
1
5
50
500
5000


ts0r0f/symmetric/att48−16
Performance
FEs
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1
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3
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5
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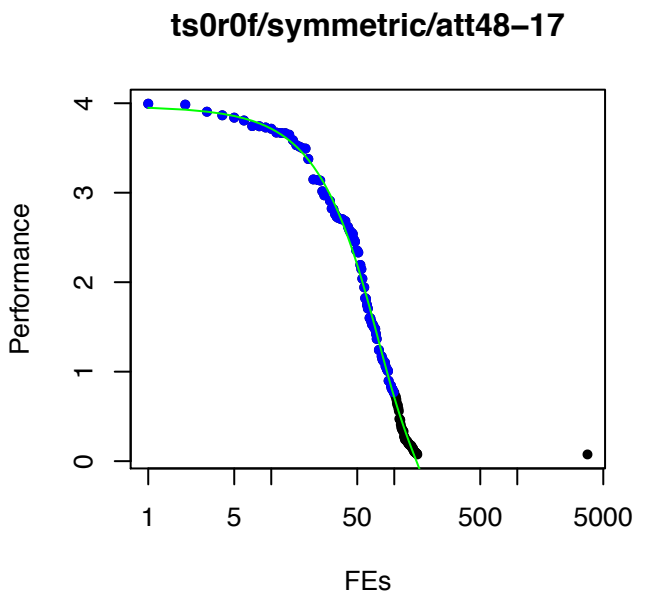
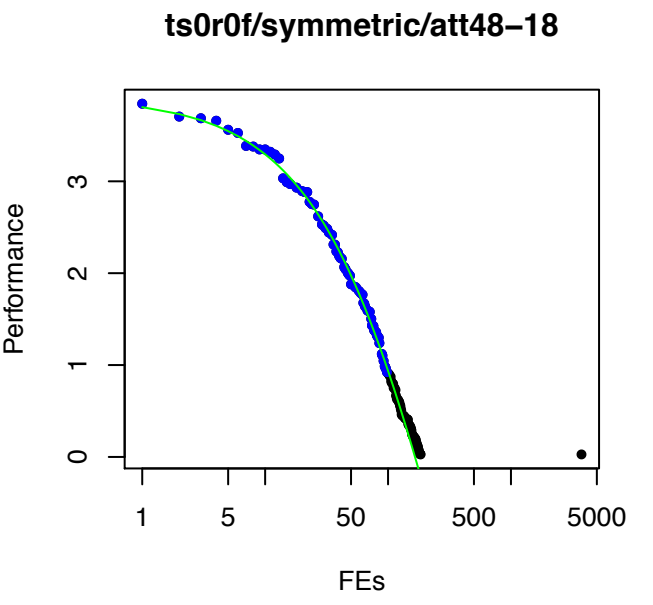
500
5000


ts0r0f/symmetric/att48−17
Performance
0
1
2
3
4
1
5
50
500
5000
FEs


ts0r0f/symmetric/att48−18
Performance
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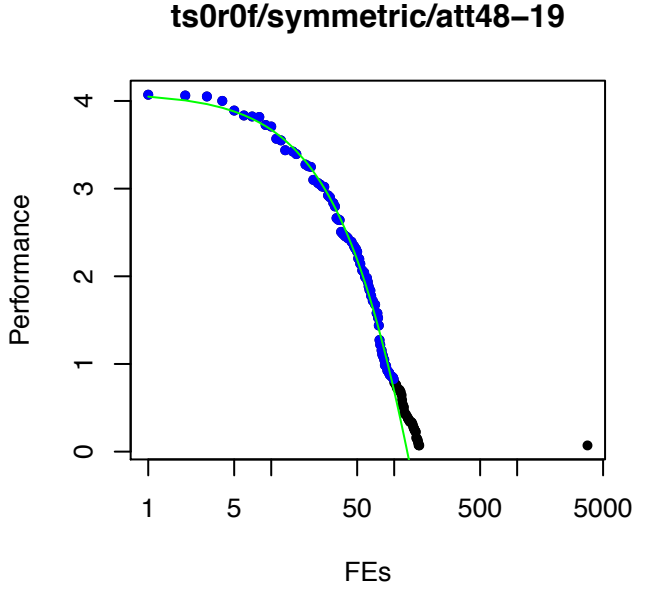
2
3
1
5
50
500
5000
FEs


ts0r0f/symmetric/att48−19
Performance
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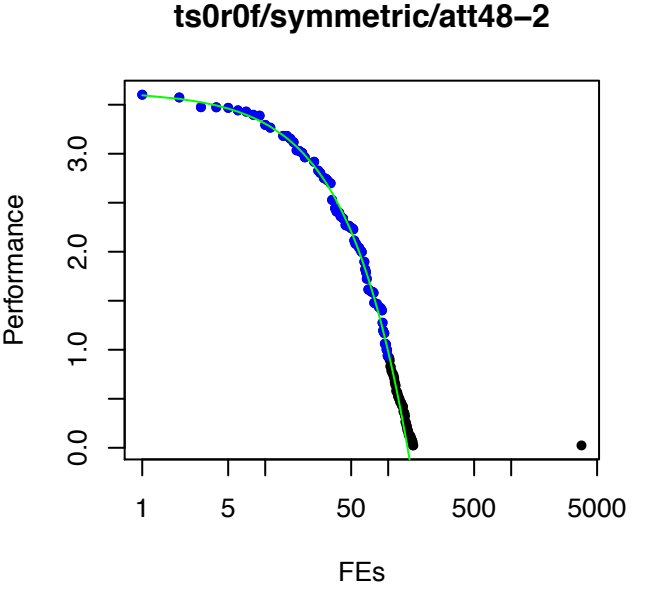
1
2
3
4
1
5
50
500
5000
FEs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Performance
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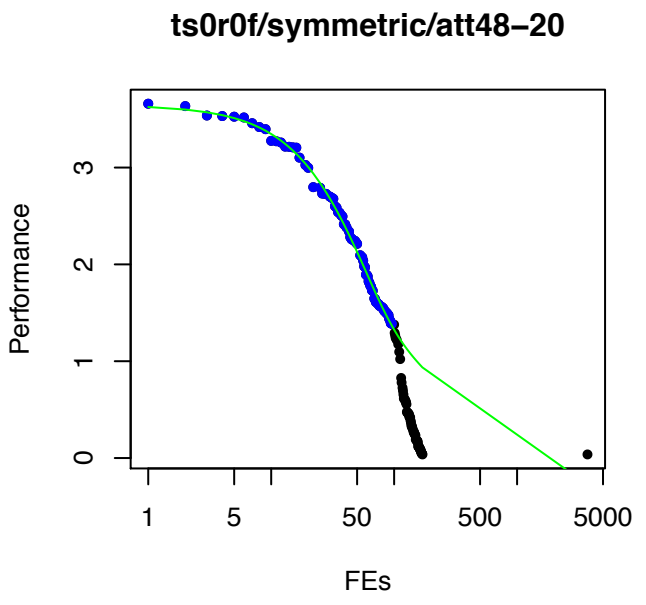
2.0
3.0
1
5
50
500
5000
FEs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Performance
FEs
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1
5
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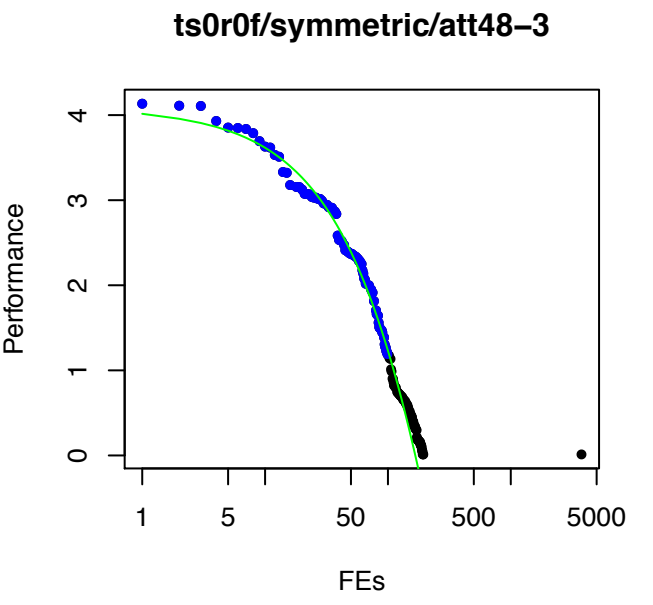
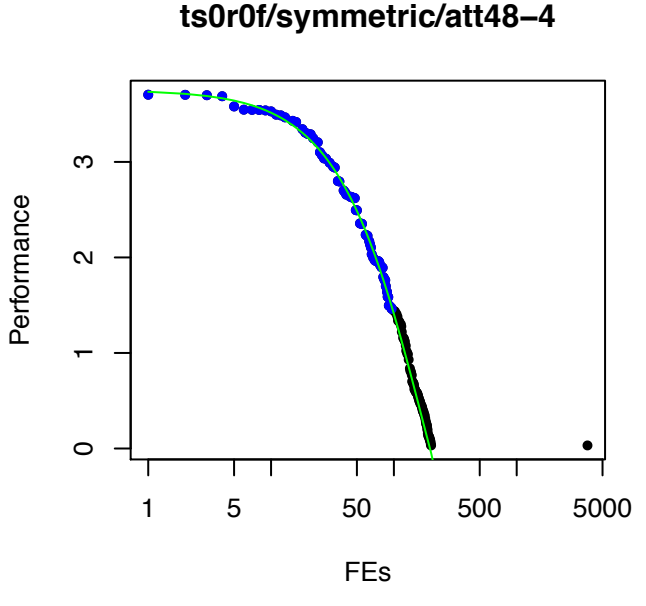
500
5000


ts0r0f/symmetric/att48−3
Performance
FEs
0
1
2
3
4
1
5
50
500
5000


ts0r0f/symmetric/att48−4
Performance
FEs
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1
2
3
1
5
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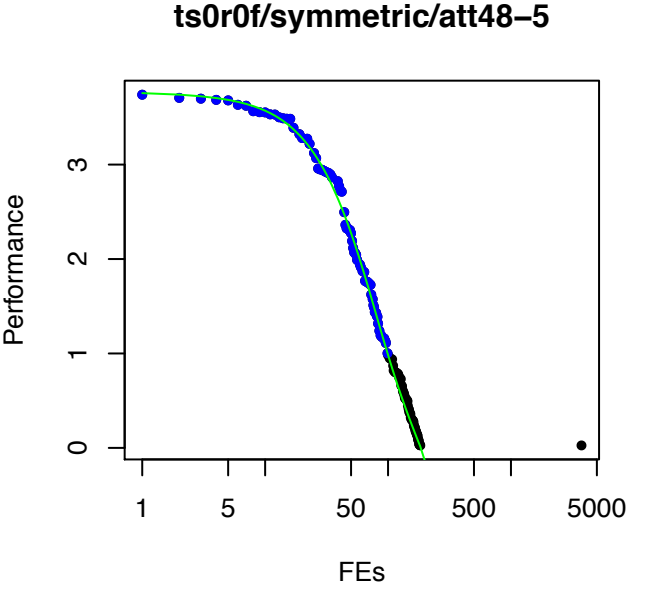
500
5000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Performance
FEs
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2
3
1
5
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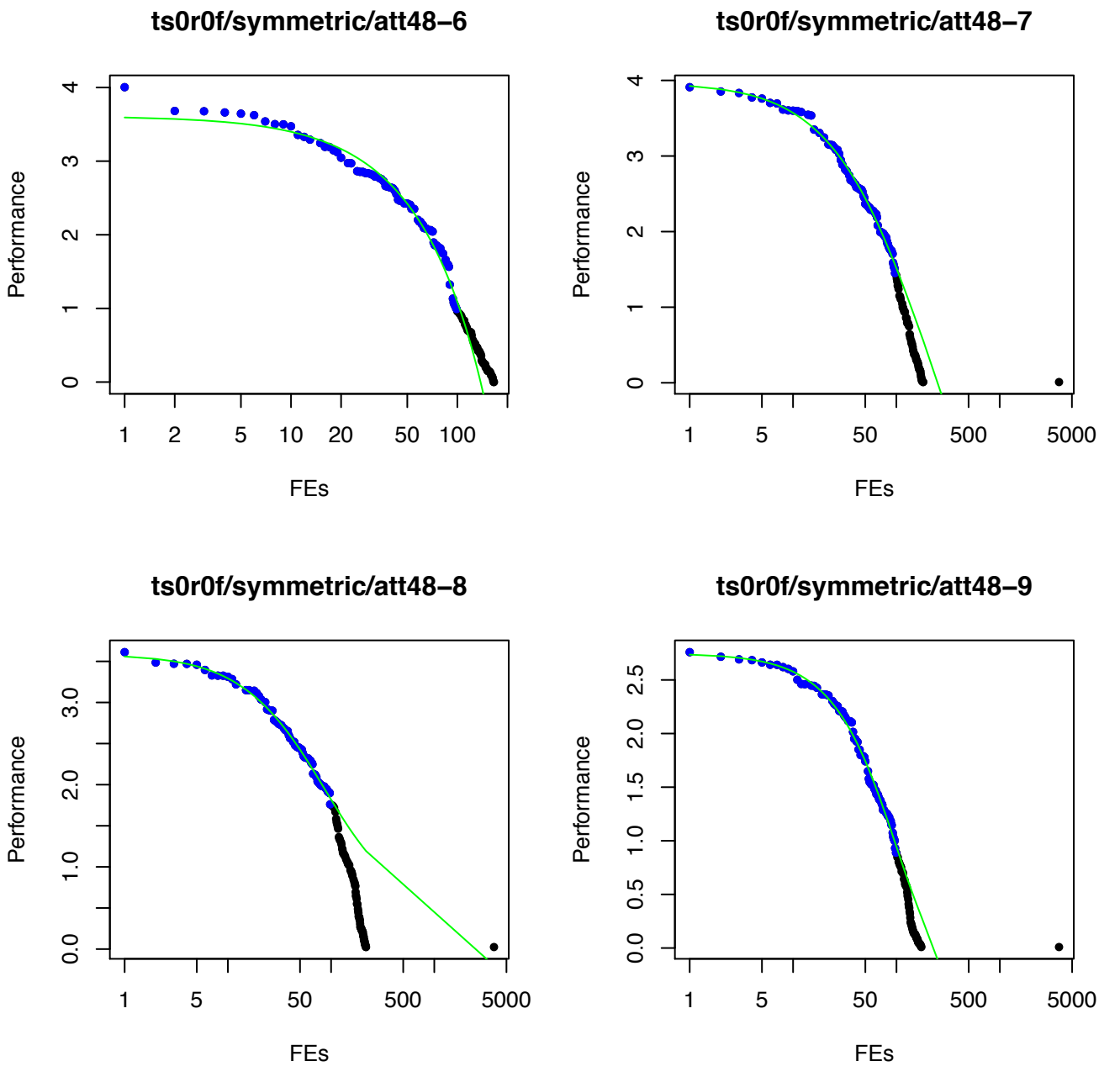
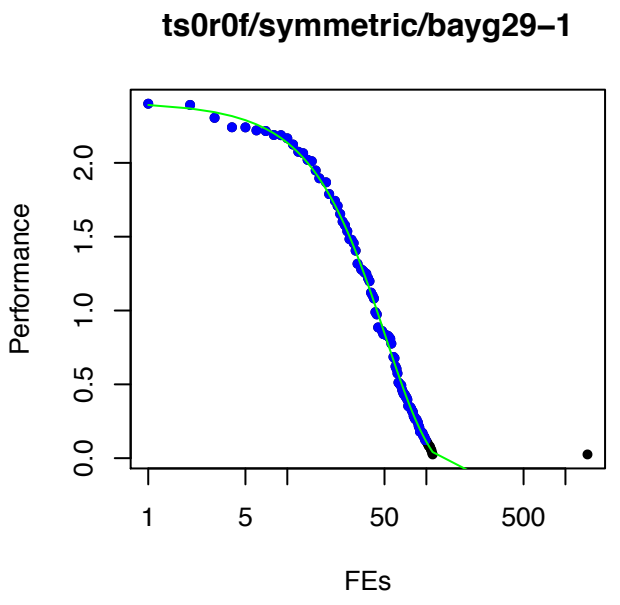
500
5000


ts0r0f/symmetric/att48−6
Performance
FEs
ts0r0f/symmetric/att48−7
Performance
FEs
ts0r0f/symmetric/att48−8
Performance
FEs
ts0r0f/symmetric/att48−9
Performance
FEs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Performance
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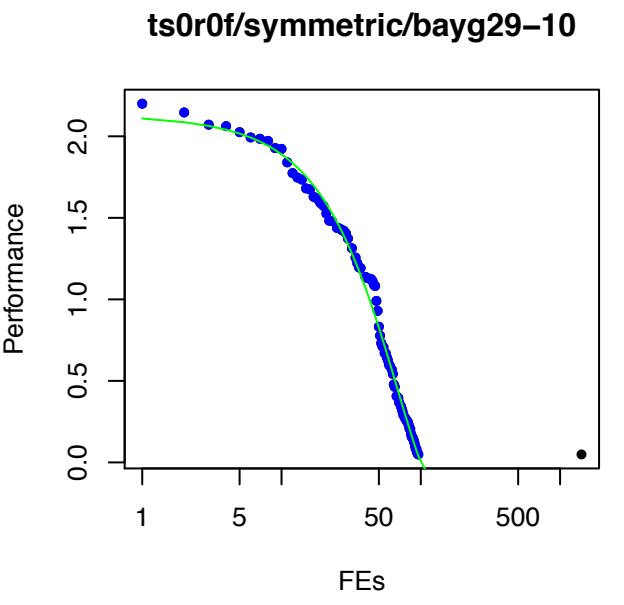
1.0
1.5
2.0
1
5
50
500
FEs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Performance
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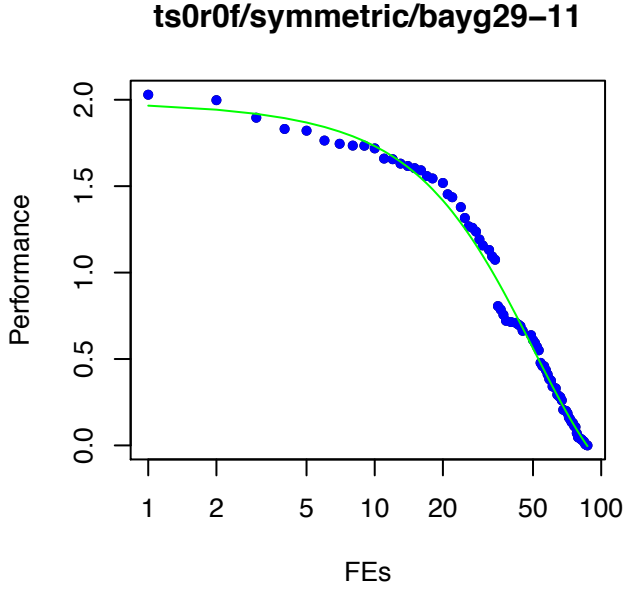
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/bayg29−11
Performance
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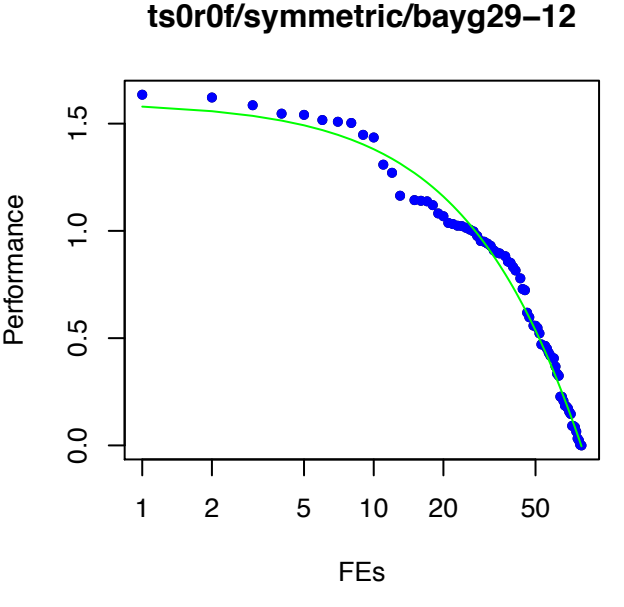
1.0
1.5
2.0
1
2
5
10
20
50
100
FEs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Performance
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1
2
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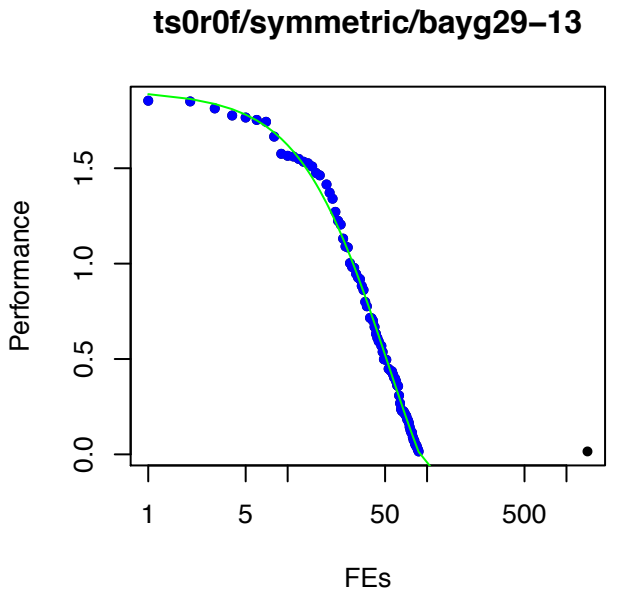
10
20
50
FEs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Performance
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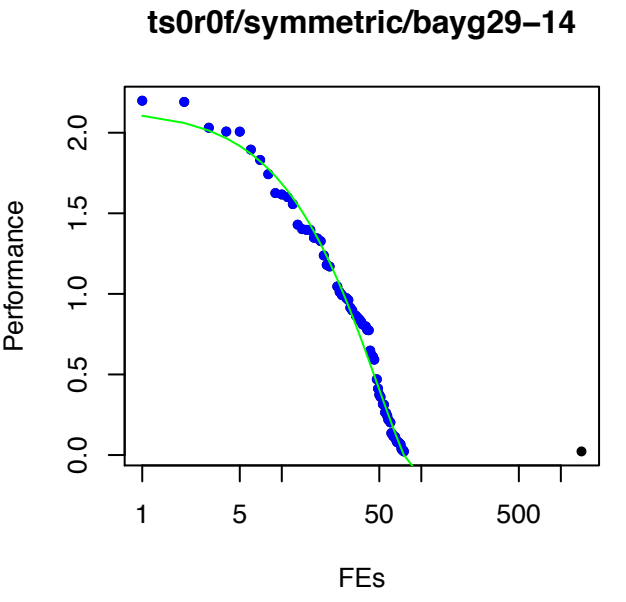
1
5
50
500
FEs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Performance
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2.0
1
5
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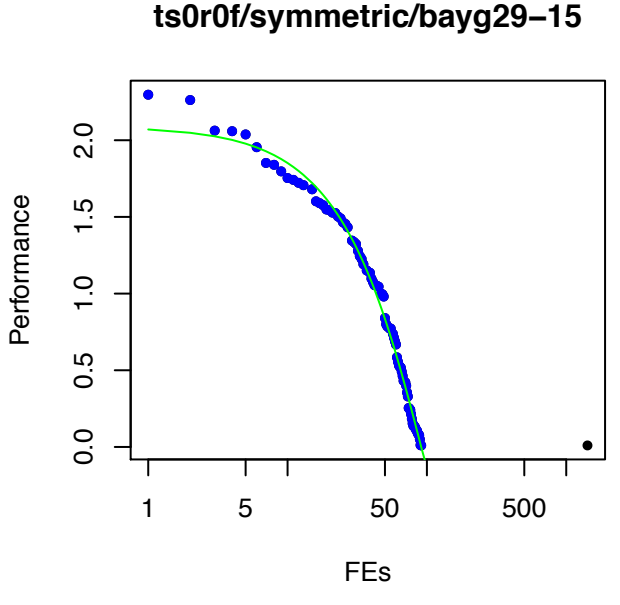
500
FEs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Performance
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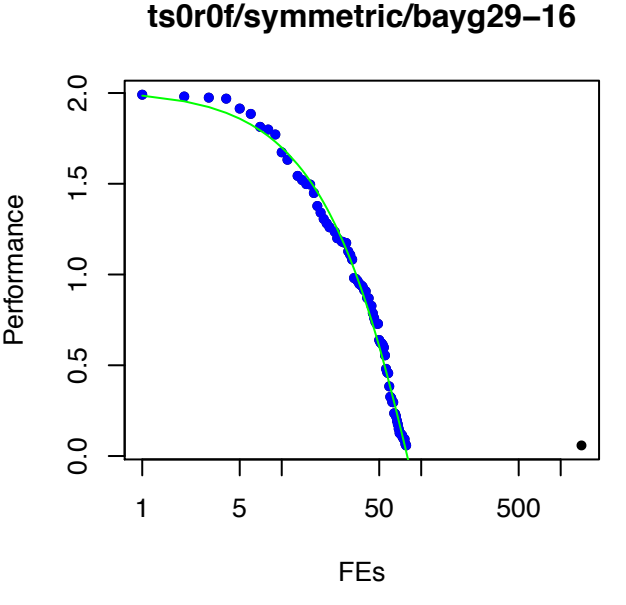
1.0
1.5
2.0
1
5
50
500
FEs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Performance
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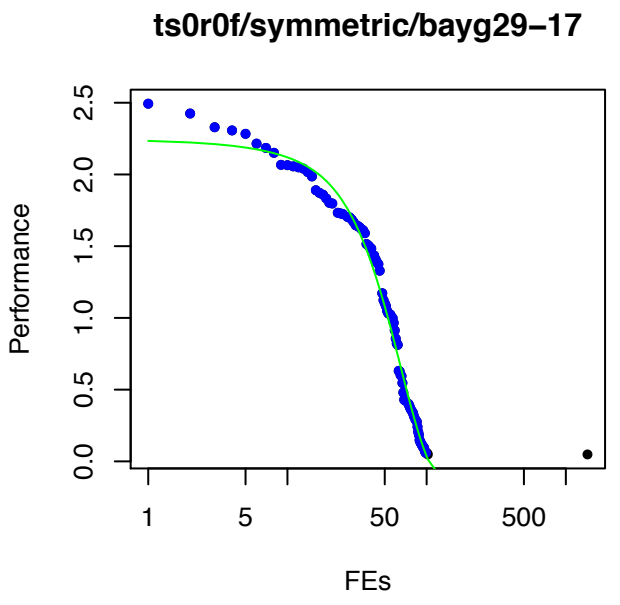
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/bayg29−17
Performance
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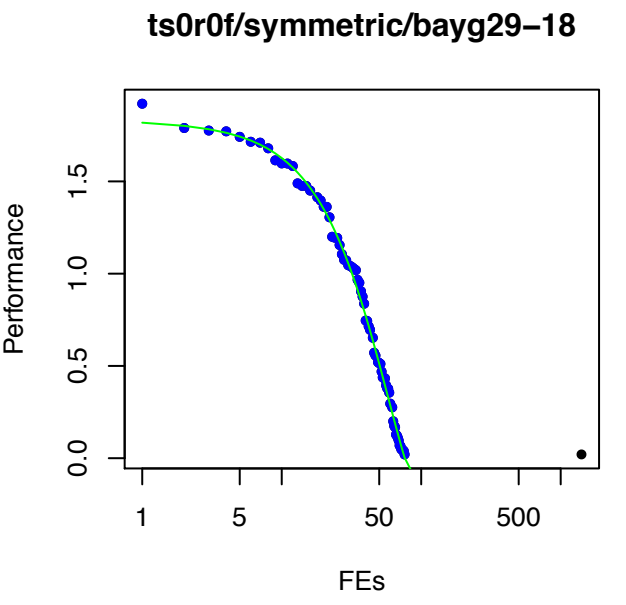
1.0
1.5
2.0
2.5
1
5
50
500
FEs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Performance
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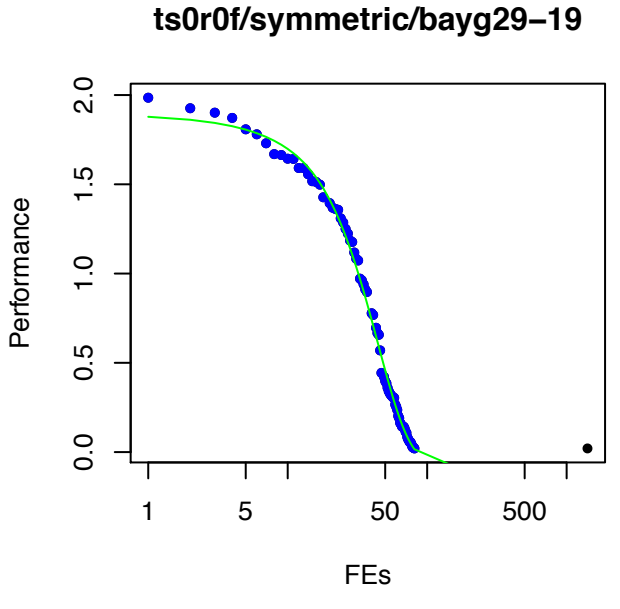
1.0
1.5
1
5
50
500
FEs


ts0r0f/symmetric/bayg29−19
Performance
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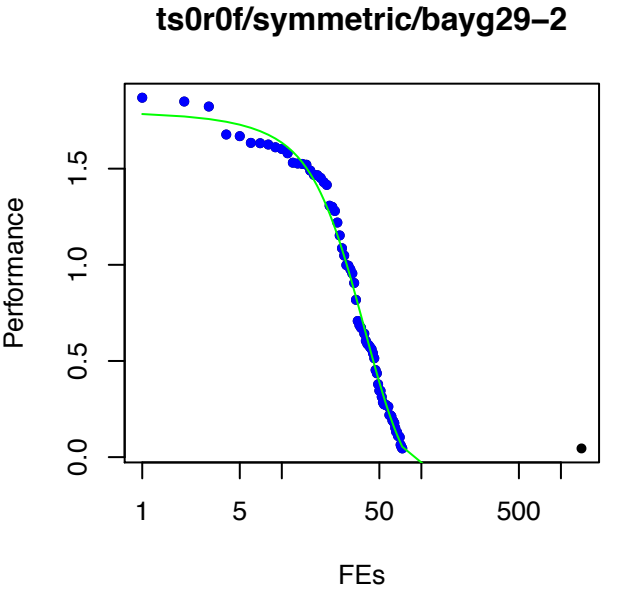
1.0
1.5
2.0
1
5
50
500
FEs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Performance
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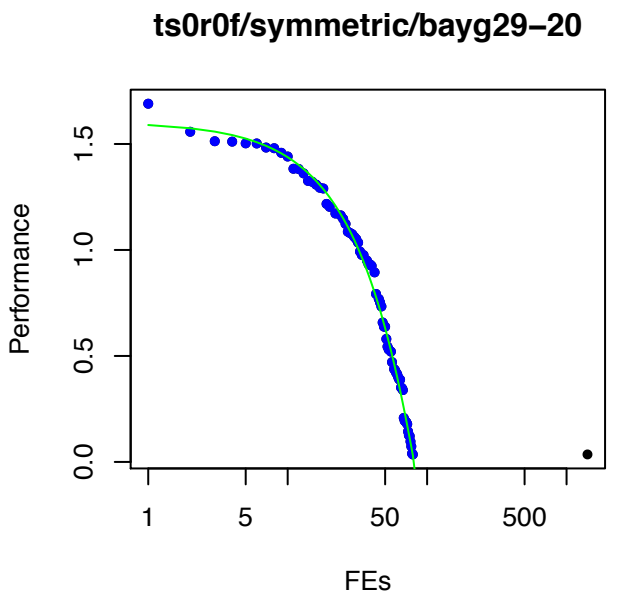
1.5
1
5
50
500
FEs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Performance
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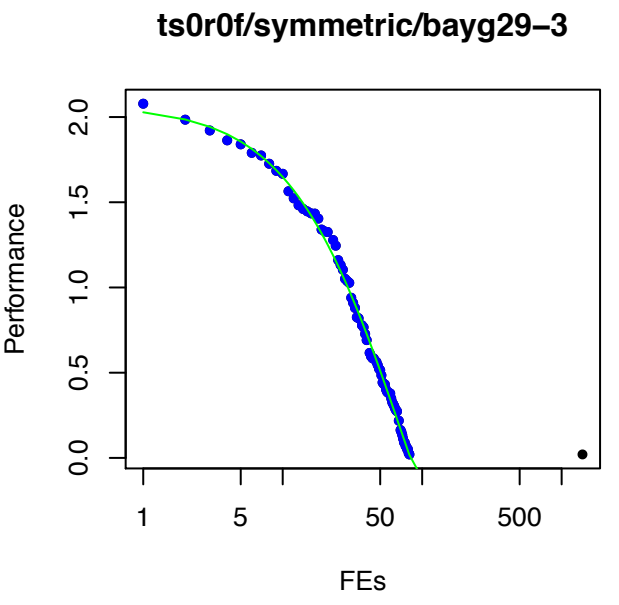
1.5
1
5
50
500
FEs


ts0r0f/symmetric/bayg29−3
Performance
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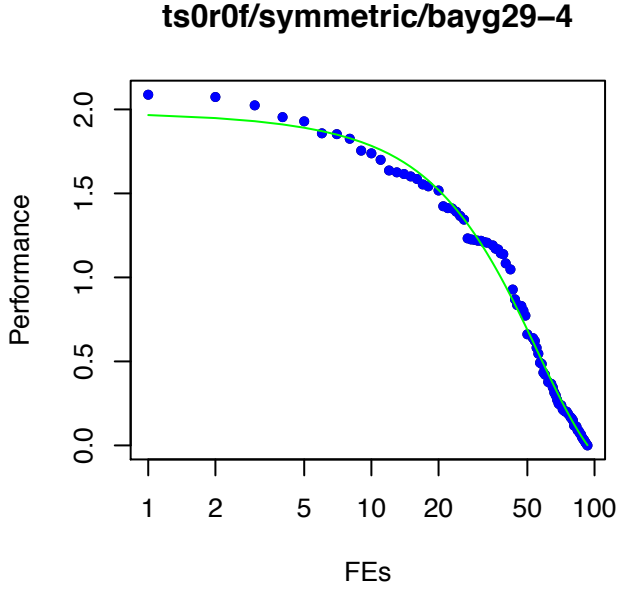
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/bayg29−4
Performance
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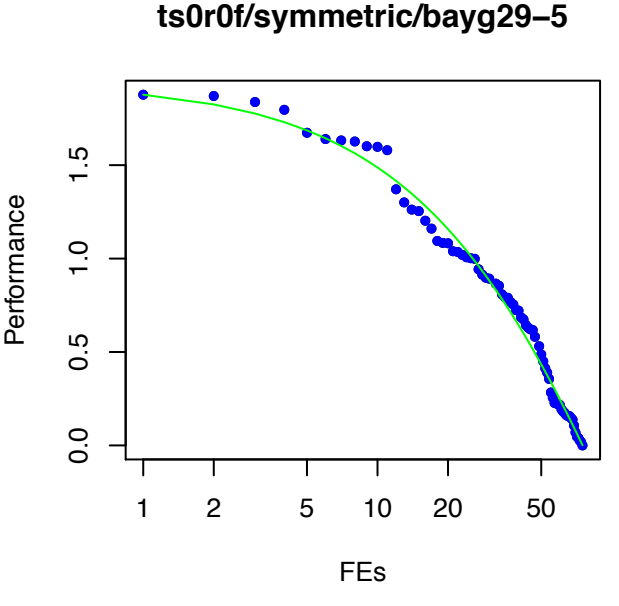
0.5
1.0
1.5
2.0
1
2
5
10
20
50
100
FEs


ts0r0f/symmetric/bayg29−5
Performance
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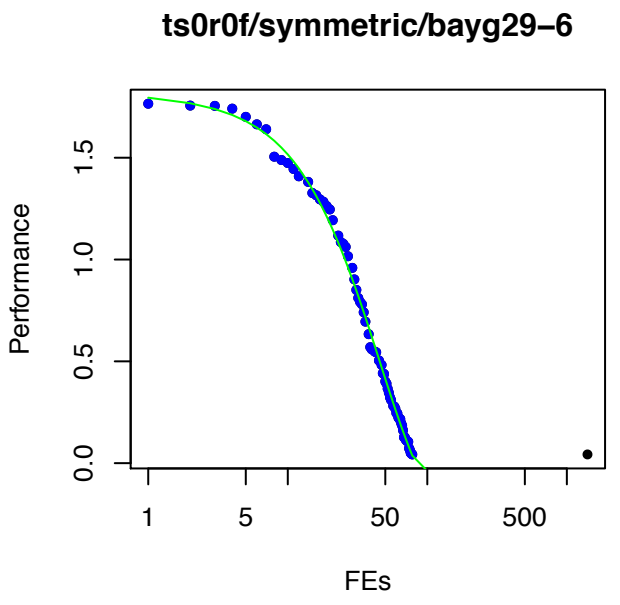
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts0r0f/symmetric/bayg29−6
Performance
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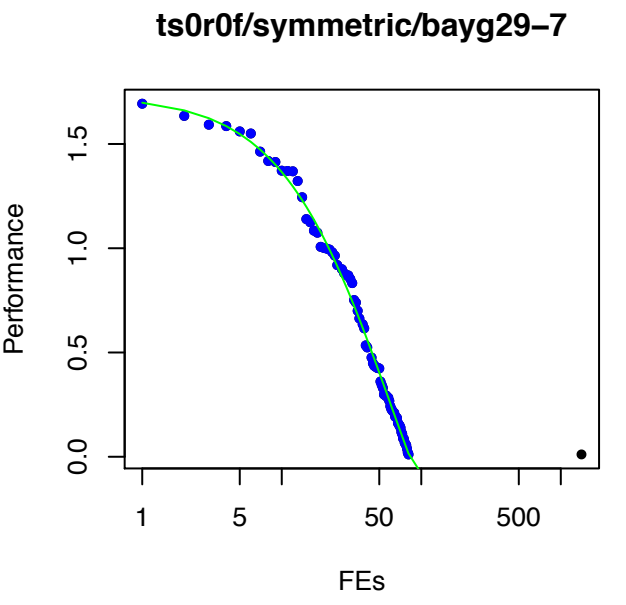
0.5
1.0
1.5
1
5
50
500
FEs


ts0r0f/symmetric/bayg29−7
Performance
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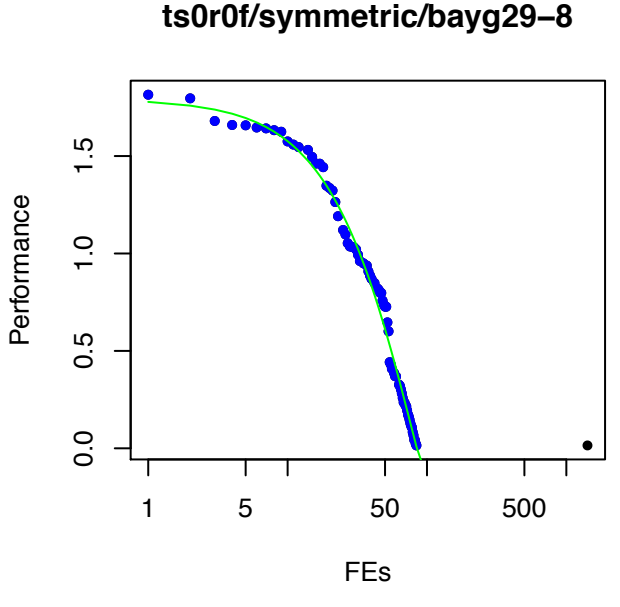
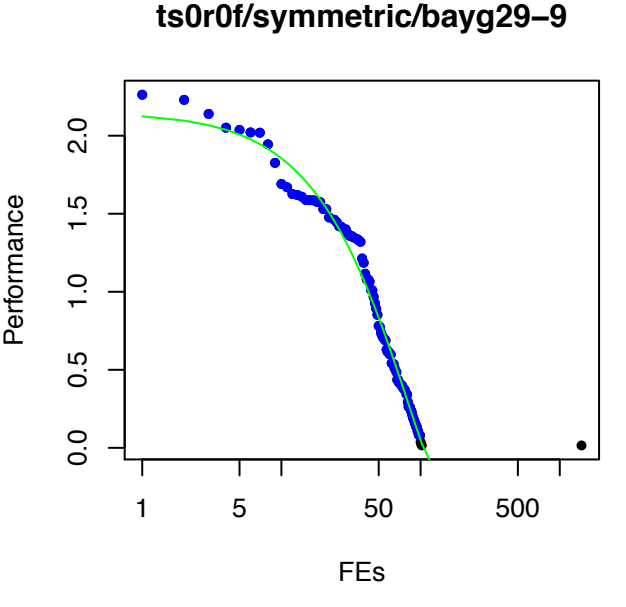
0.5
1.0
1.5
1
5
50
500
FEs


ts0r0f/symmetric/bayg29−8
Performance
0.0
0.5
1.0
1.5
1
5
50
500
FEs


ts0r0f/symmetric/bayg29−9
Performance
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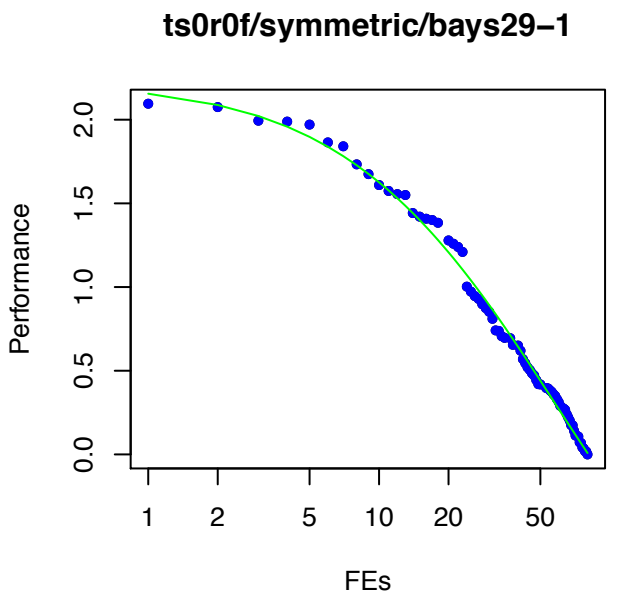
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/bays29−1
Performance
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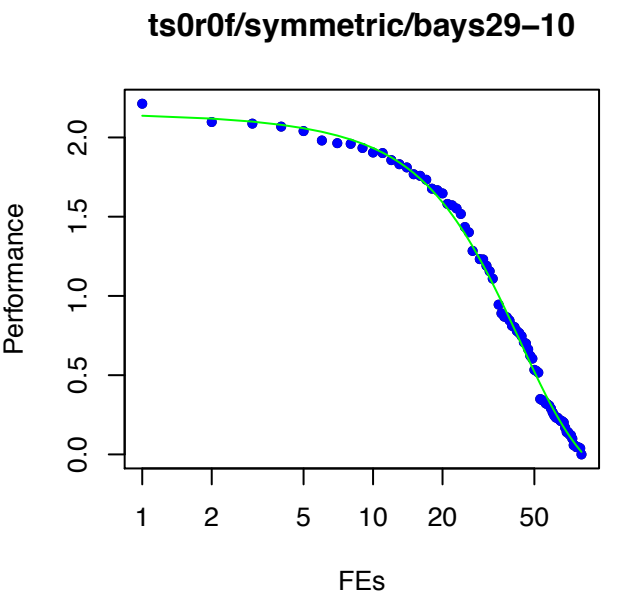
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts0r0f/symmetric/bays29−10
Performance
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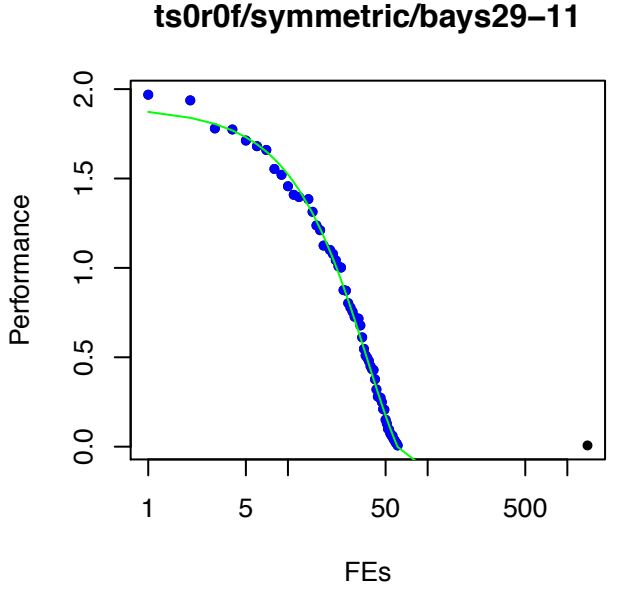
0.5
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts0r0f/symmetric/bays29−11
Performance
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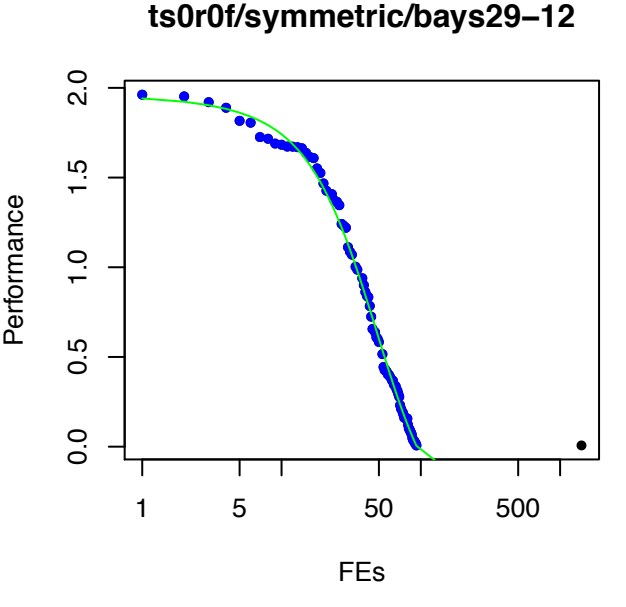
1.5
2.0
1
5
50
500
FEs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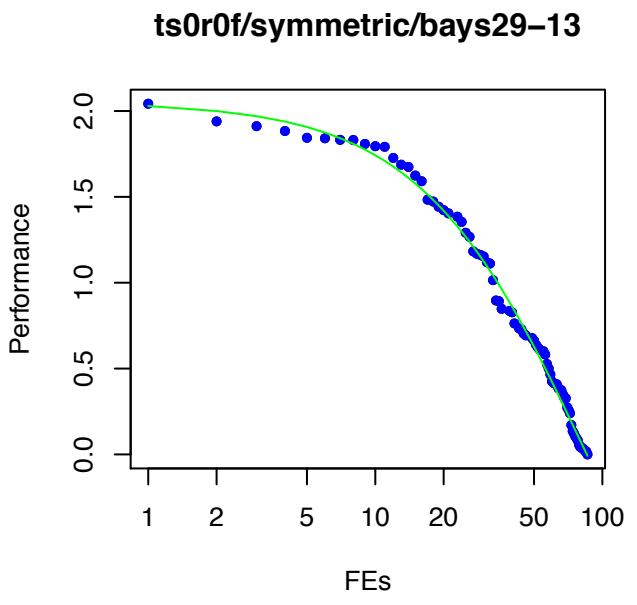
2.0
1
5
50
500
FEs


ts0r0f/symmetric/bays29−13
Performance
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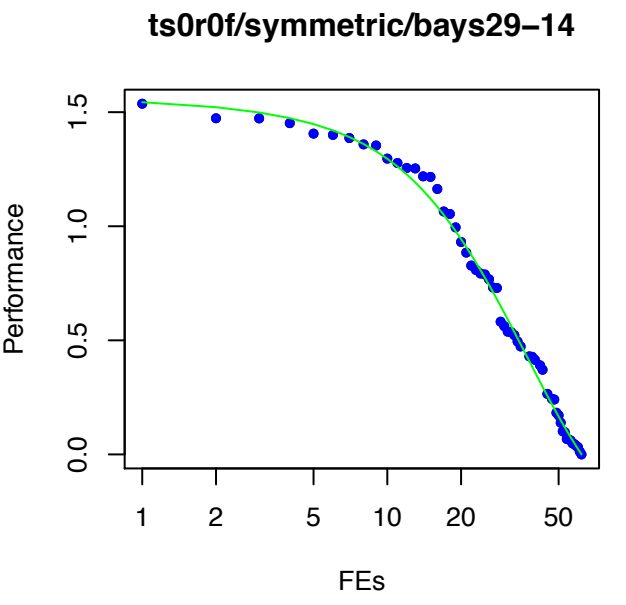
0.5
1.0
1.5
2.0
1
2
5
10
20
50
100
FEs


ts0r0f/symmetric/bays29−14
Performance
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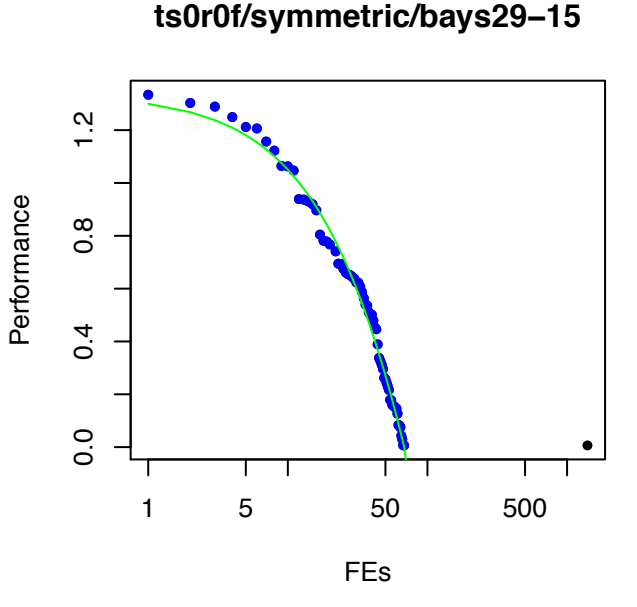
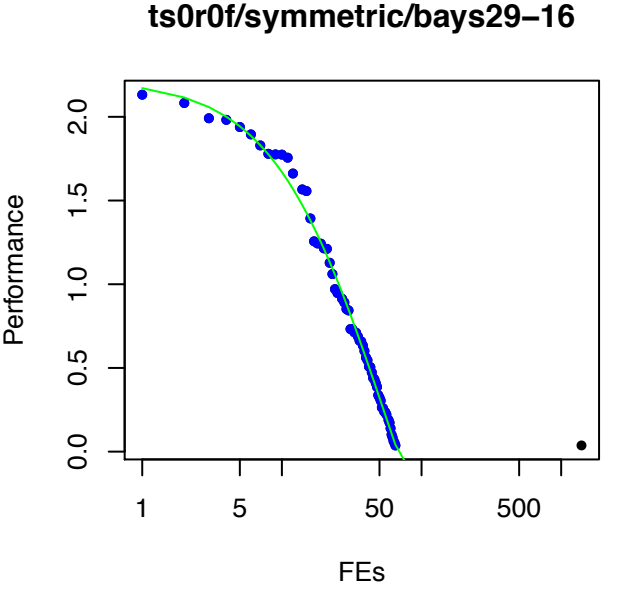
1.0
1.5
1
2
5
10
20
50
FEs


ts0r0f/symmetric/bays29−15
Performance
0.0
0.4
0.8
1.2
1
5
50
500
FEs


ts0r0f/symmetric/bays29−16
Performance
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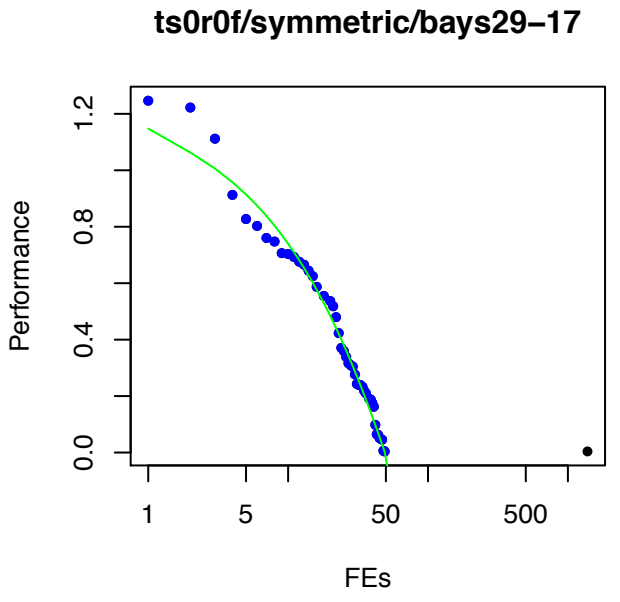
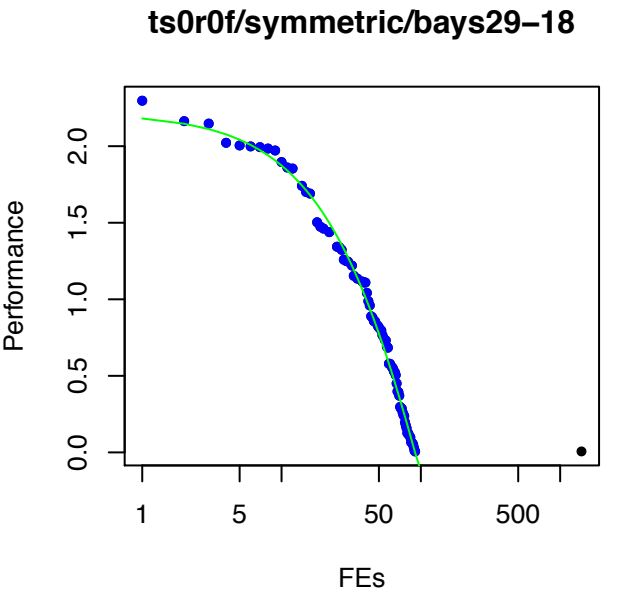
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/bays29−17
Performance
0.0
0.4
0.8
1.2
1
5
50
500
FEs


ts0r0f/symmetric/bays29−18
Performance
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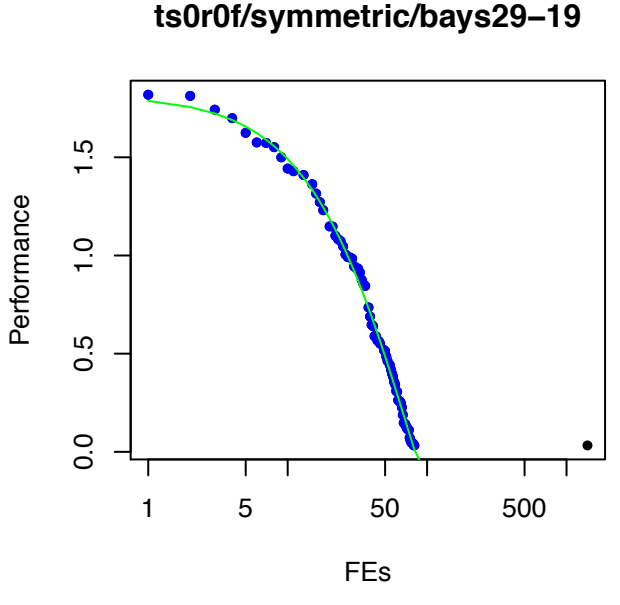
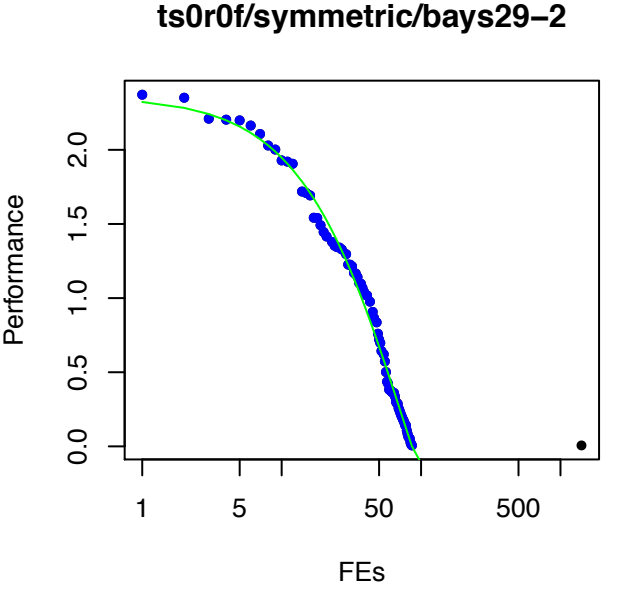
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/bays29−19
Performance
0.0
0.5
1.0
1.5
1
5
50
500
FEs


ts0r0f/symmetric/bays29−2
Performance
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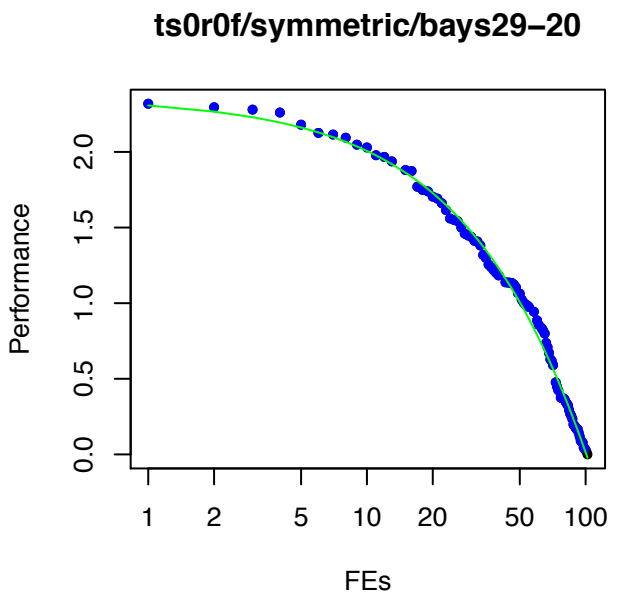
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/bays29−20
Performance
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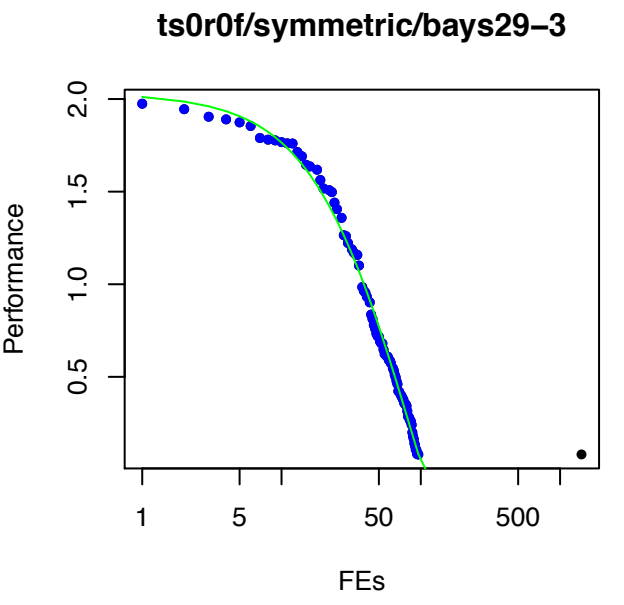
0.5
1.0
1.5
2.0
1
2
5
10
20
50
100
FEs


ts0r0f/symmetric/bays29−3
Performance
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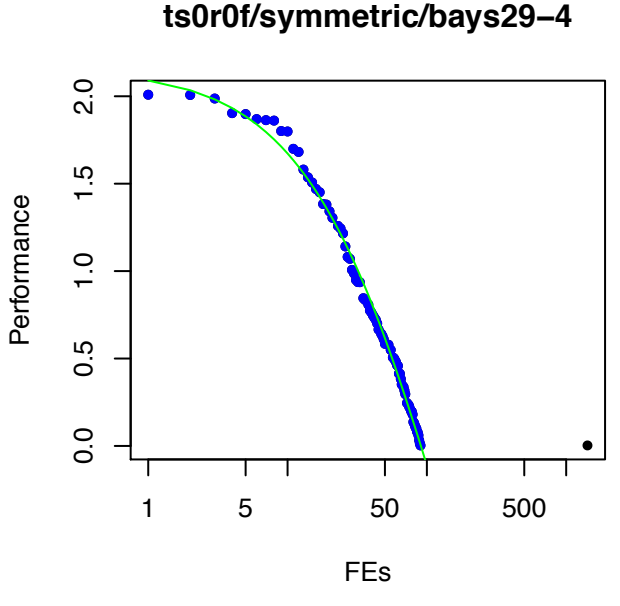
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/bays29−4
Performance
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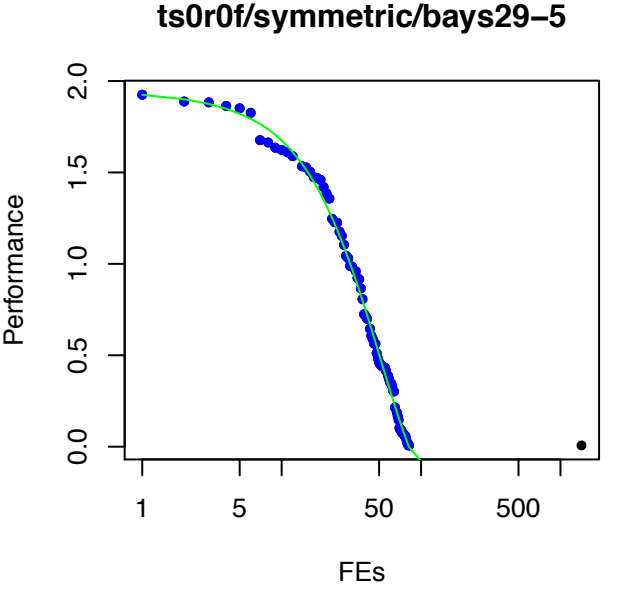
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/bays29−5
Performance
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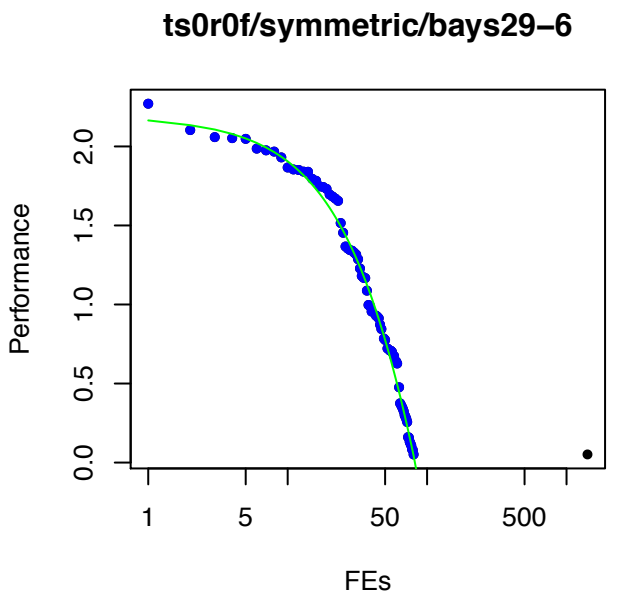
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/bays29−6
Performance
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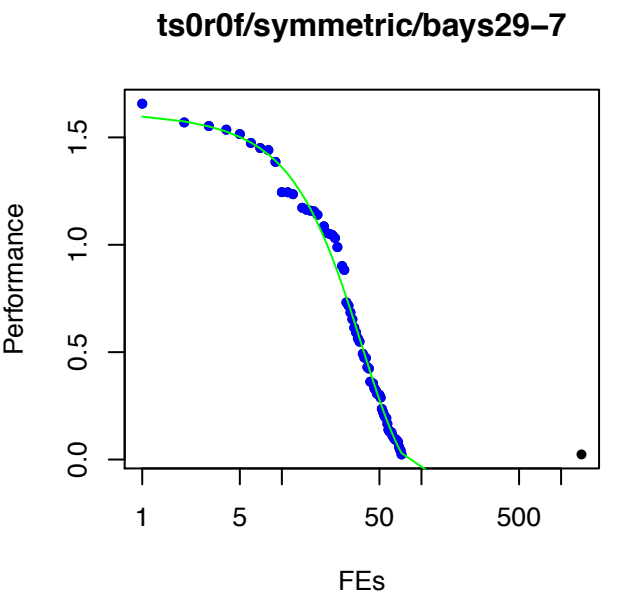
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/bays29−7
Performance
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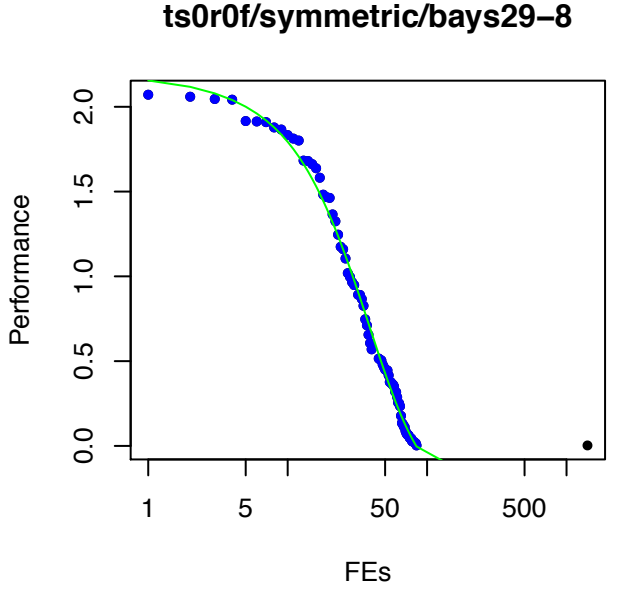
0.5
1.0
1.5
1
5
50
500
FEs


ts0r0f/symmetric/bays29−8
Performance
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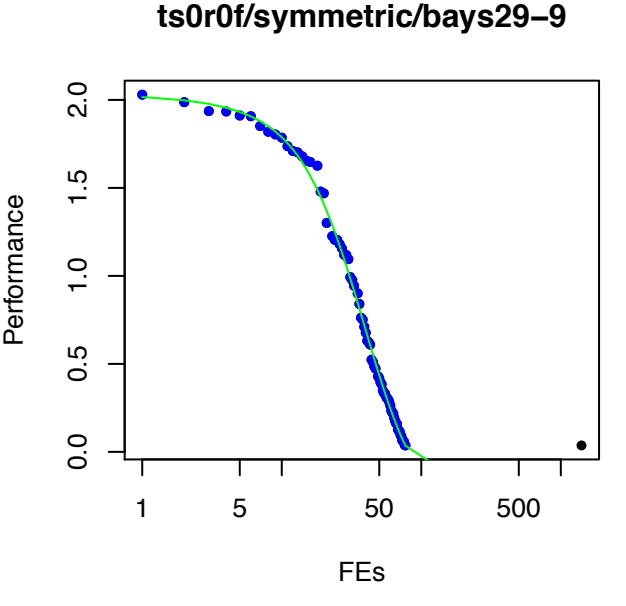
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/bays29−9
Performance
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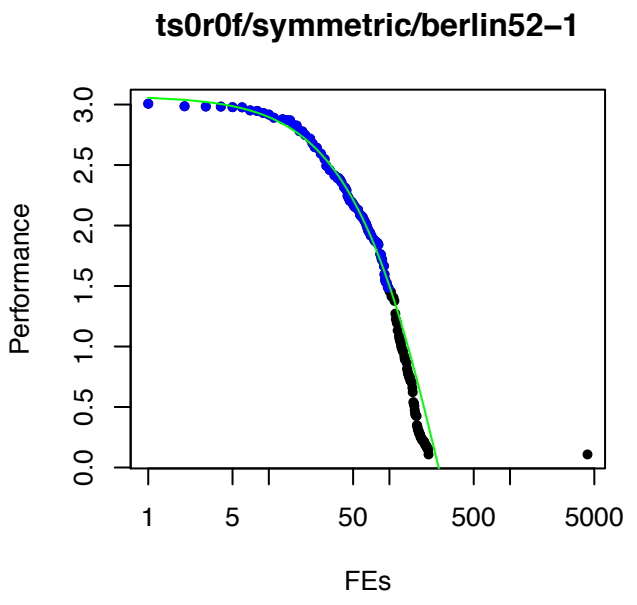
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/berlin52−1
Performance
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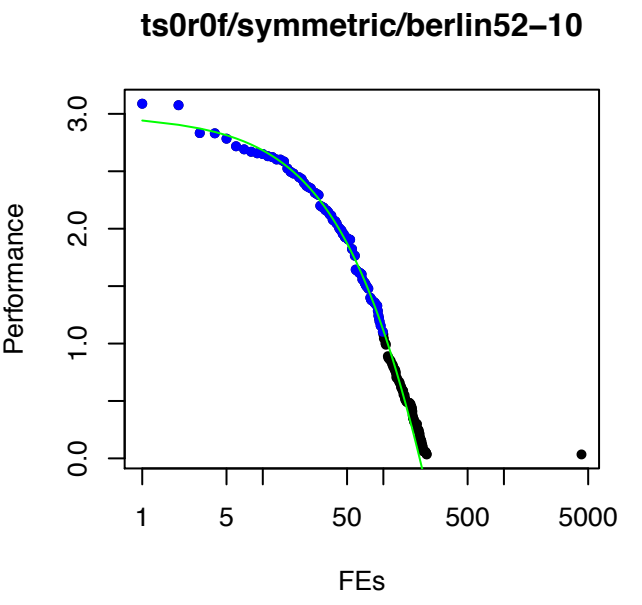
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/berlin52−10
Performance
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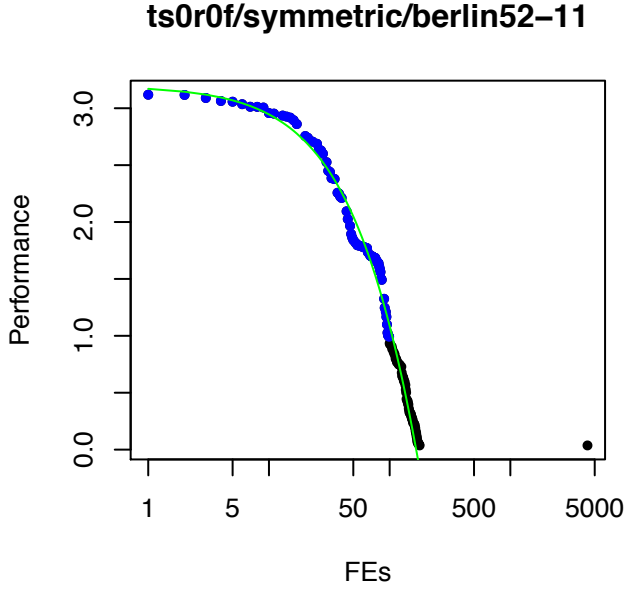
2.0
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/berlin52−11
Performance
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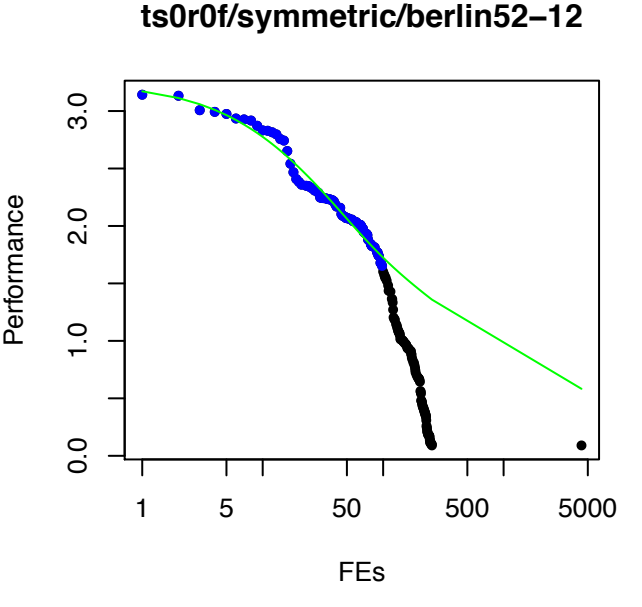
2.0
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/berlin52−12
Performance
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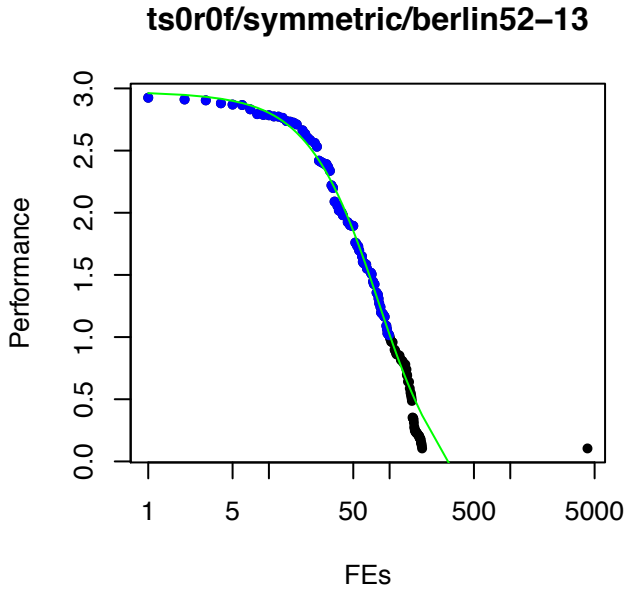
2.0
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/berlin52−13
Performance
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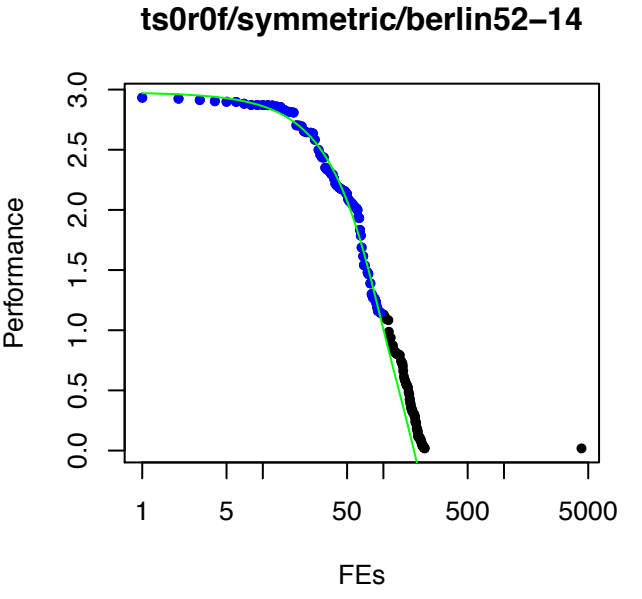
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/berlin52−14
Performance
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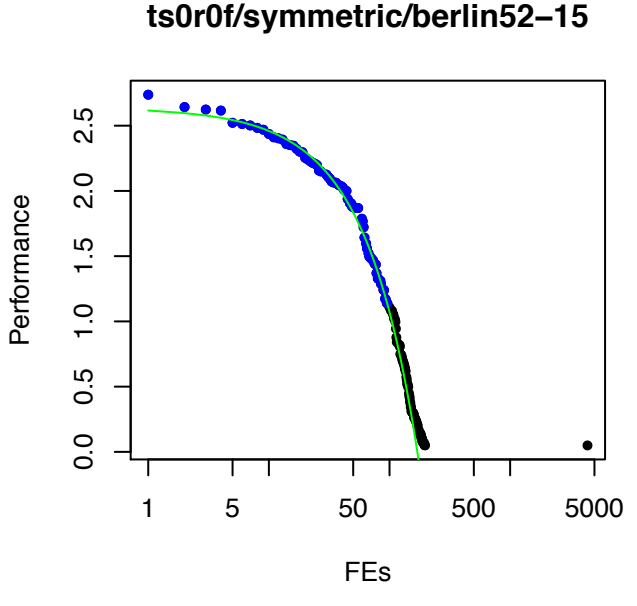
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/berlin52−15
Performance
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0.5
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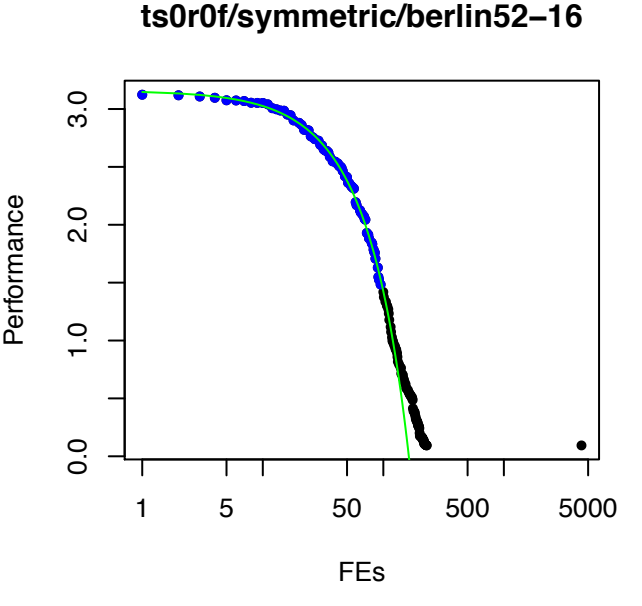
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0f/symmetric/berlin52−16
Performance
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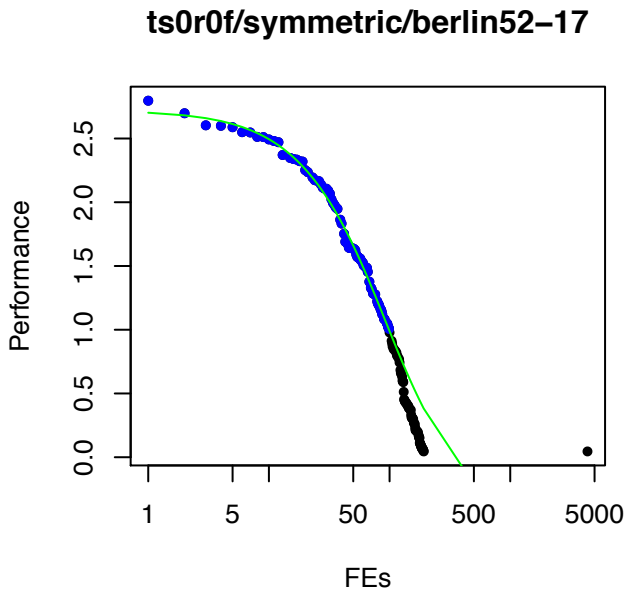
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/berlin52−17
Performance
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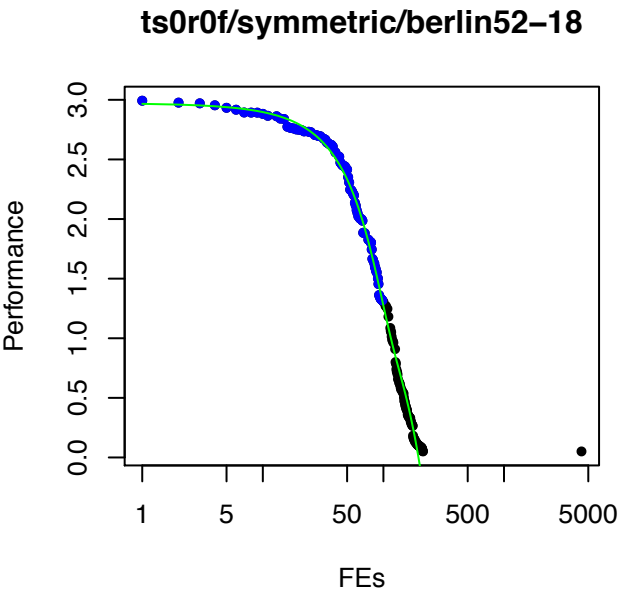
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0f/symmetric/berlin52−18
Performance
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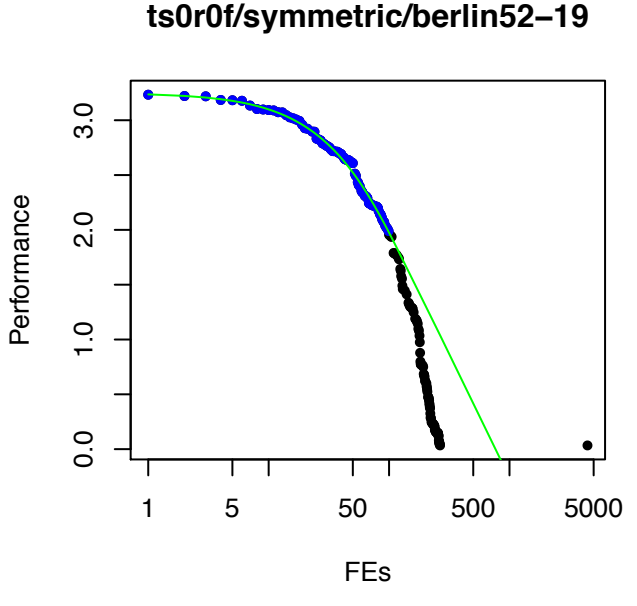
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/berlin52−19
Performance
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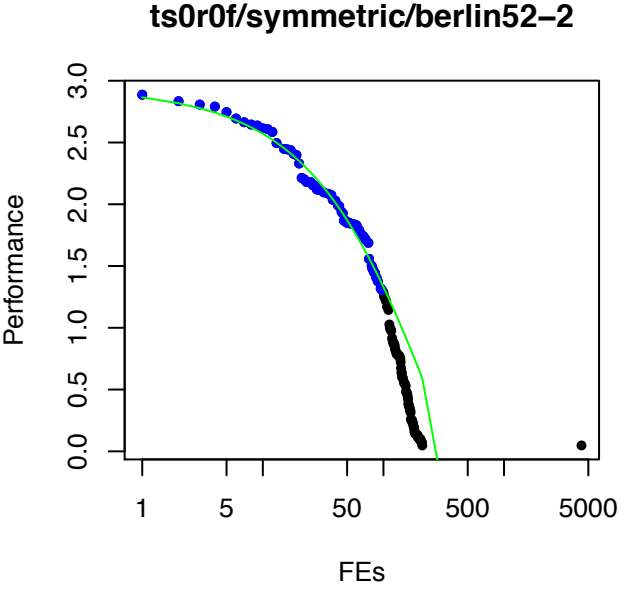
2.0
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/berlin52−2
Performance
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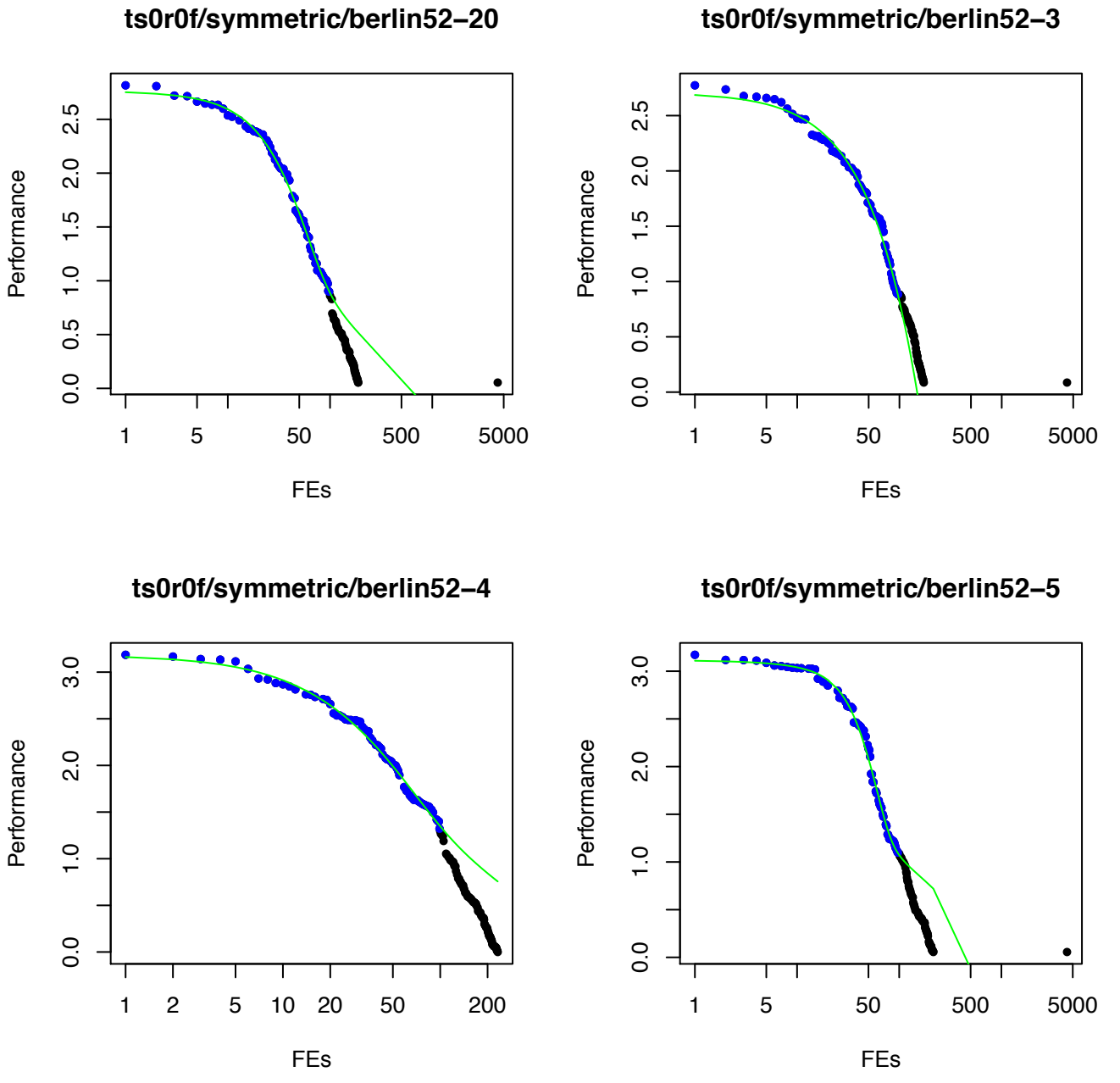
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/berlin52−20
Performance
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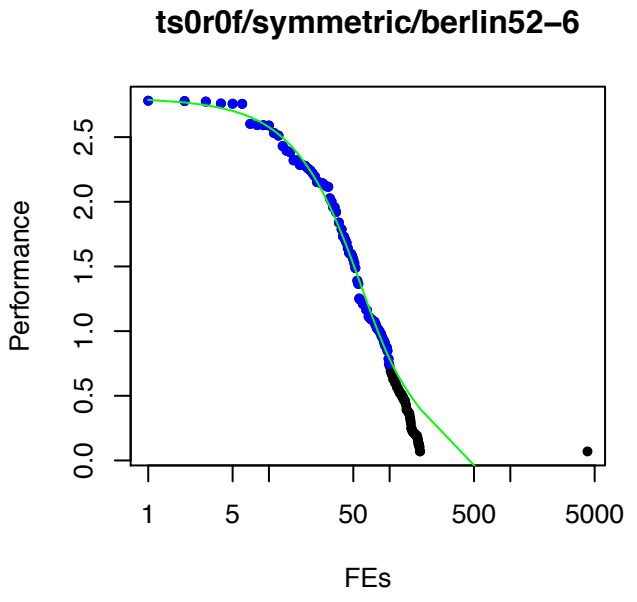
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs
ts0r0f/symmetric/berlin52−3
Performance
0.0
0.5
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs
ts0r0f/symmetric/berlin52−4
Performance
0.0
1.0
2.0
3.0
1
2
5
10
20
50
200
FEs
ts0r0f/symmetric/berlin52−5
Performance
0.0
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/berlin52−6
Performance
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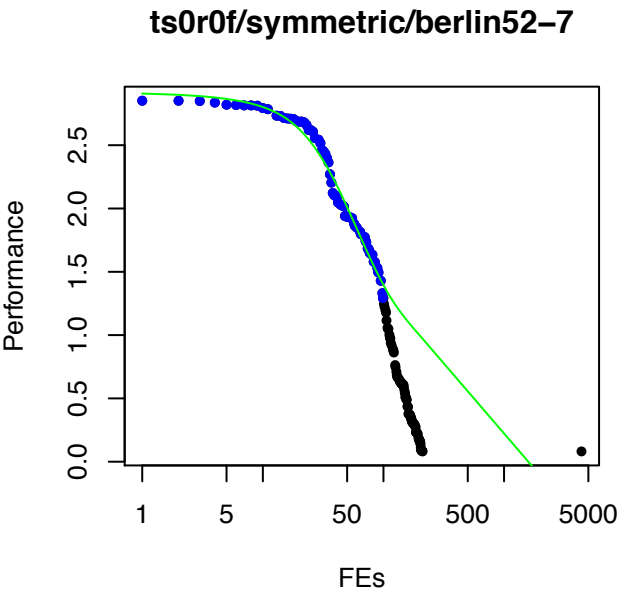
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0f/symmetric/berlin52−7
Performance
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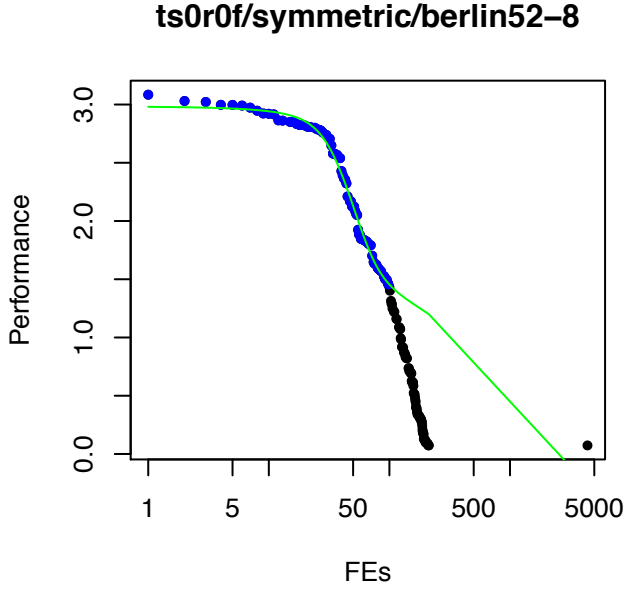
0.5
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0f/symmetric/berlin52−8
Performance
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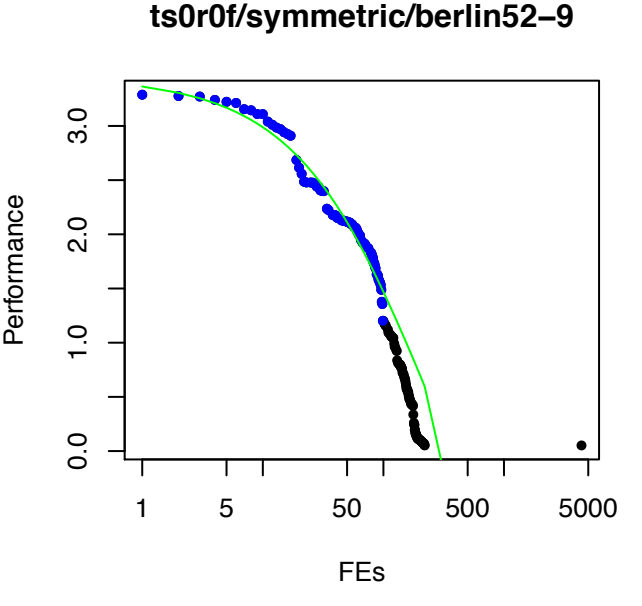
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/berlin52−9
Performance
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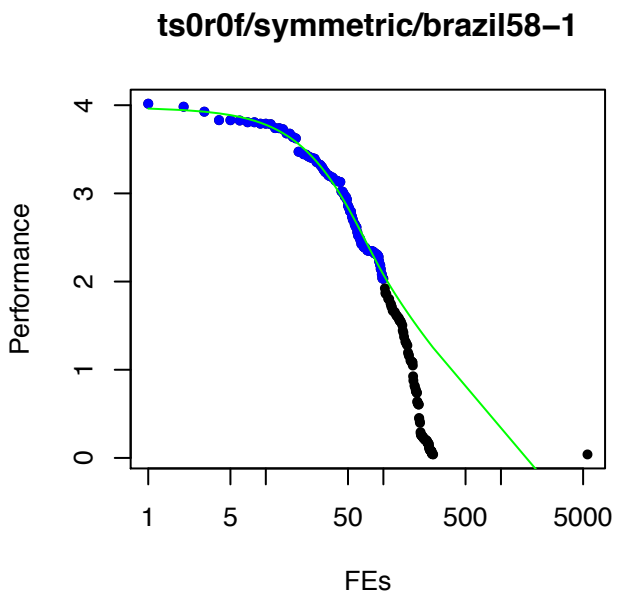
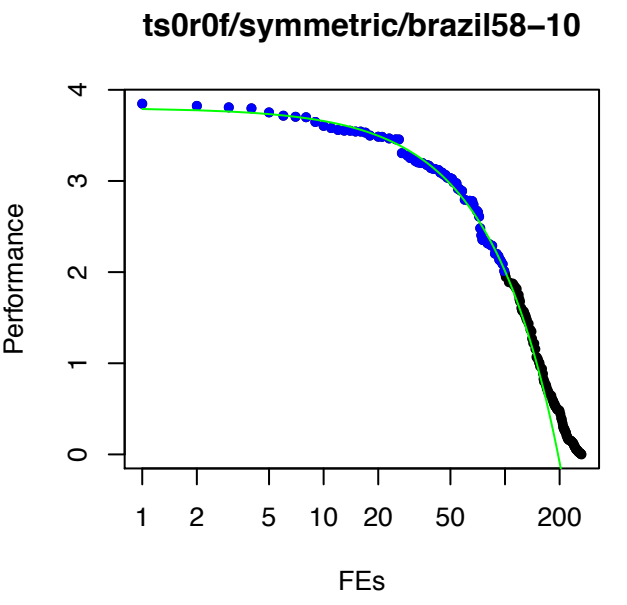
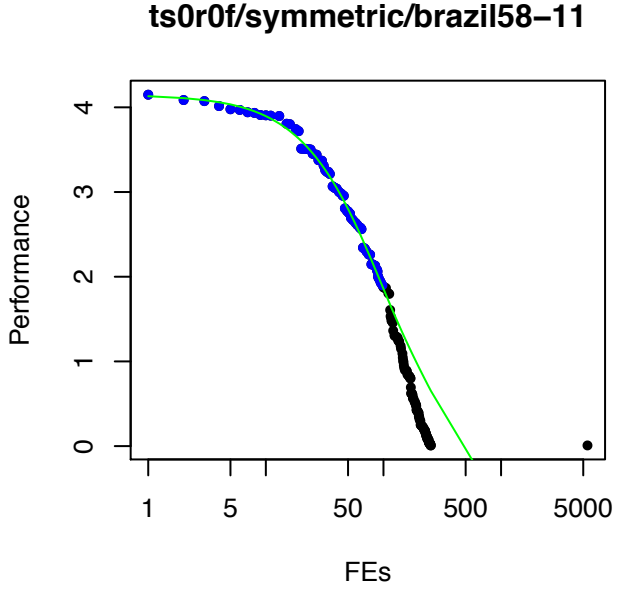
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/brazil58−1
Performance
0
1
2
3
4
1
5
50
500
5000
FEs


ts0r0f/symmetric/brazil58−10
Performance
0
1
2
3
4
1
2
5
10
20
50
200
FEs


ts0r0f/symmetric/brazil58−11
Performance
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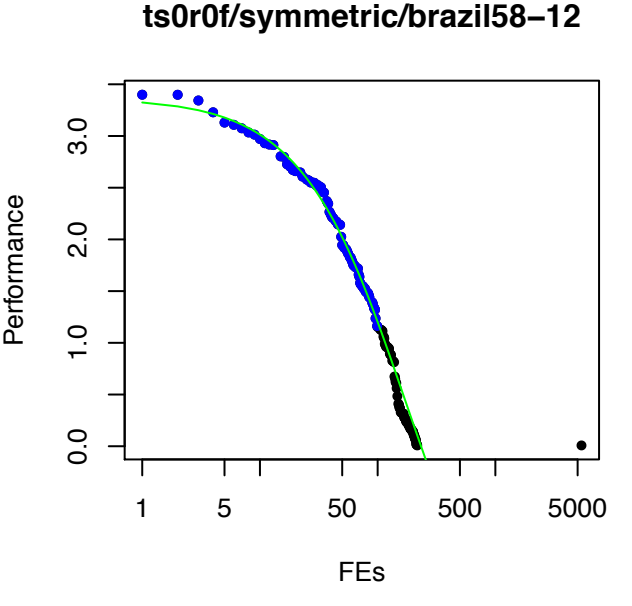
FEs


ts0r0f/symmetric/brazil58−12
Performance
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3.0
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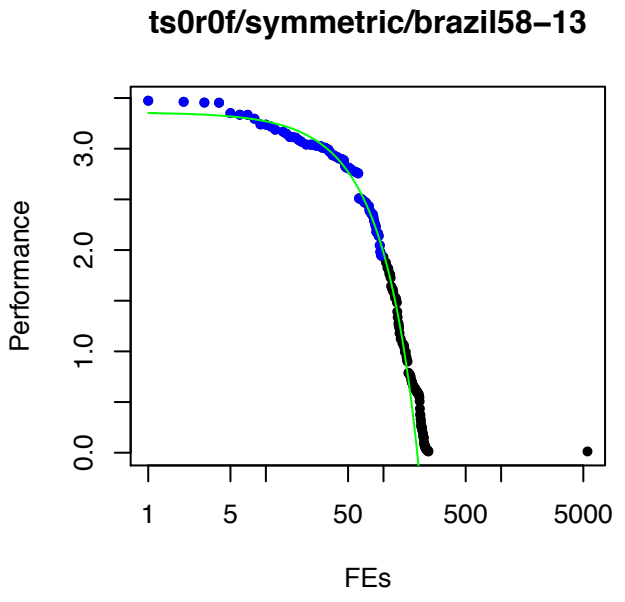
50
500
5000
FEs


ts0r0f/symmetric/brazil58−13
Performance
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1.0
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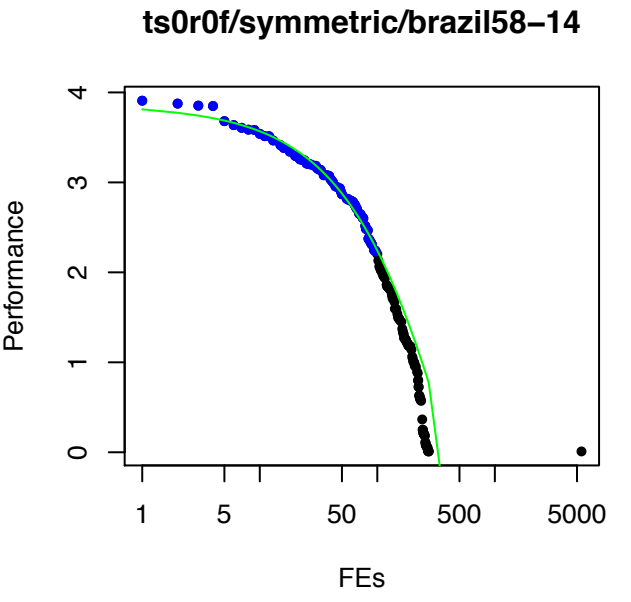
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/brazil58−14
Performance
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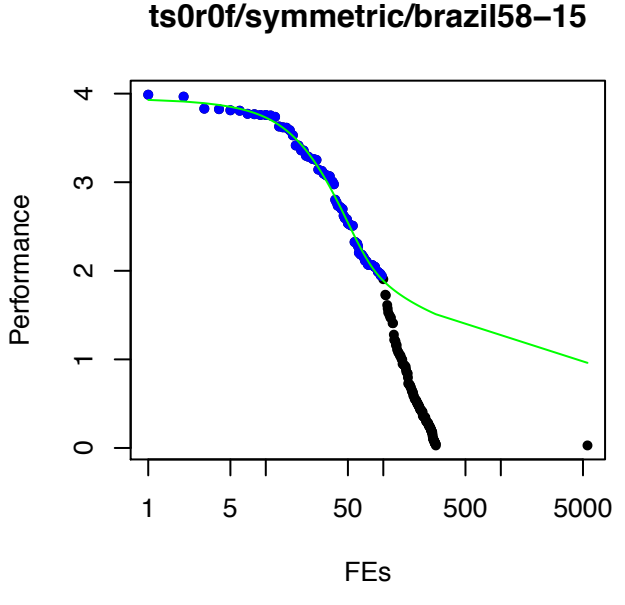
5000
FEs


ts0r0f/symmetric/brazil58−15
Performance
0
1
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3
4
1
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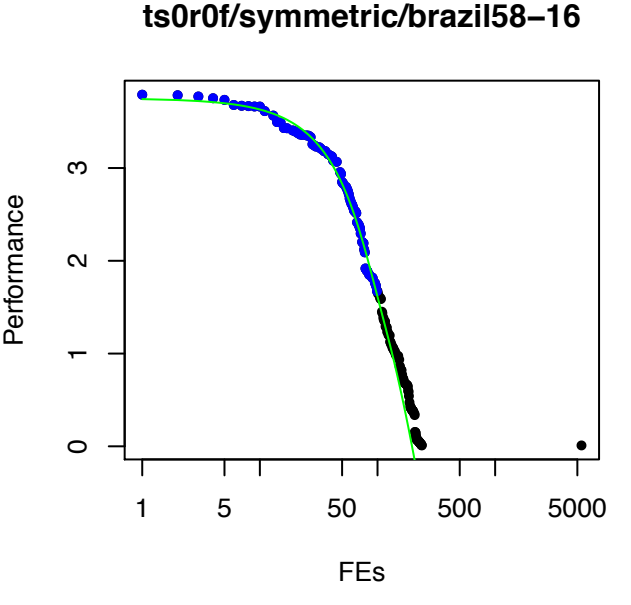
50
500
5000
FEs


ts0r0f/symmetric/brazil58−16
Performance
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2
3
1
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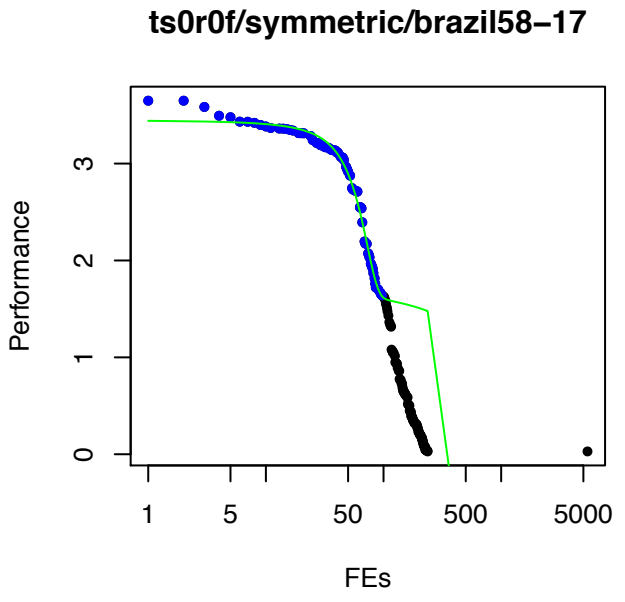
5000
FEs


ts0r0f/symmetric/brazil58−17
Performance
0
1
2
3
1
5
50
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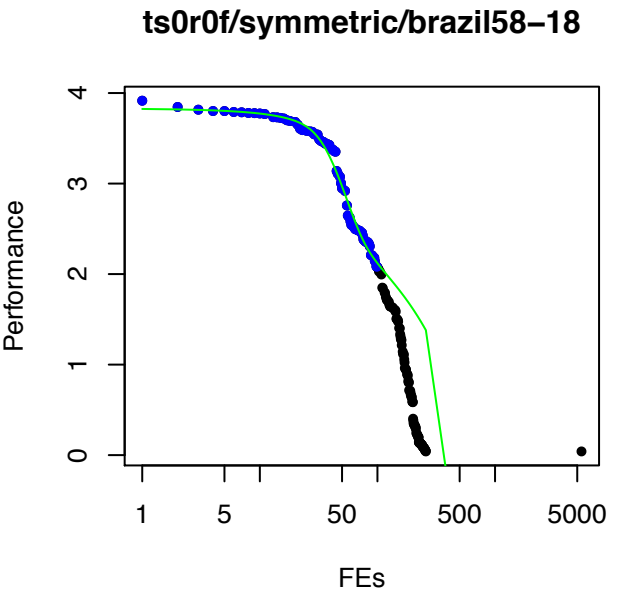
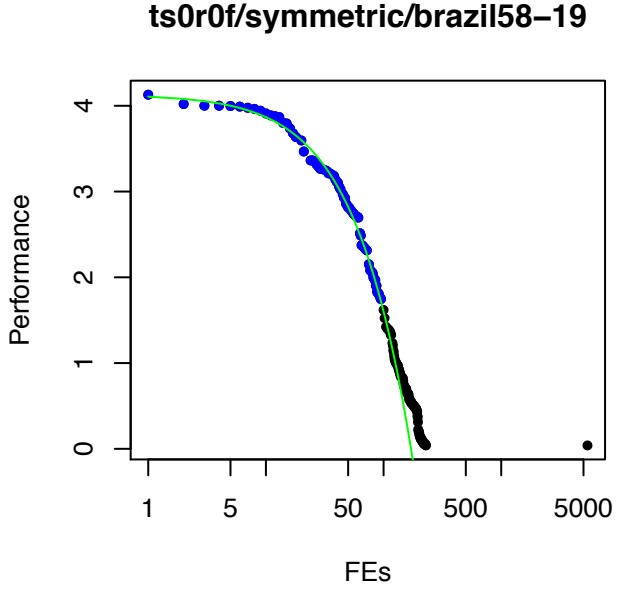
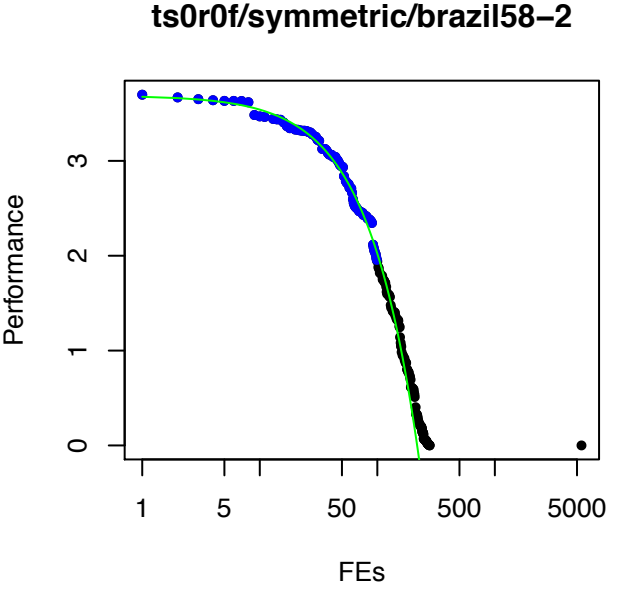
5000
FEs


ts0r0f/symmetric/brazil58−18
Performance
0
1
2
3
4
1
5
50
500
5000
FEs


ts0r0f/symmetric/brazil58−19
Performance
0
1
2
3
4
1
5
50
500
5000
FEs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Performance
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2
3
1
5
50
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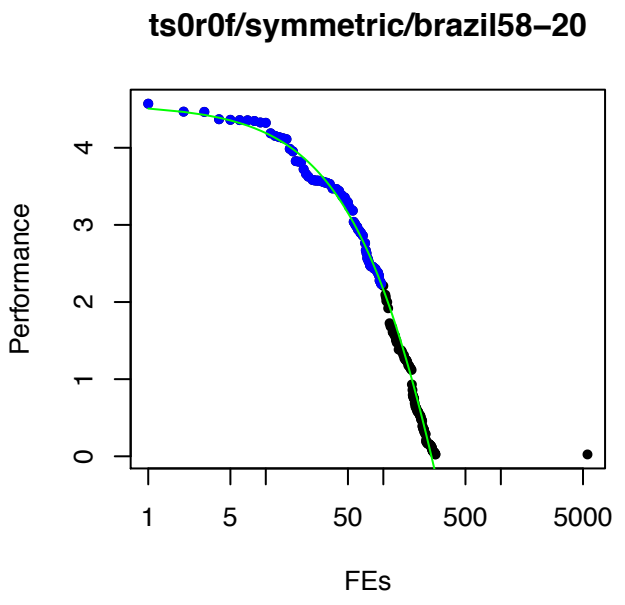
5000
FEs


ts0r0f/symmetric/brazil58−20
Performance
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1
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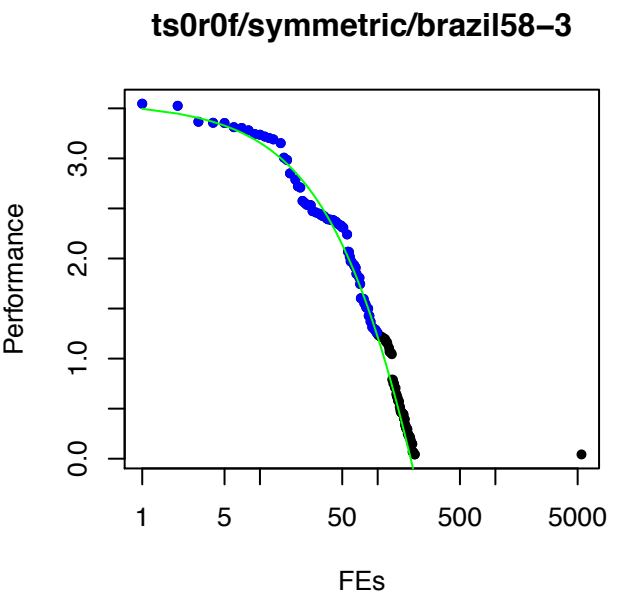
3
4
1
5
50
500
5000
FEs


ts0r0f/symmetric/brazil58−3
Performance
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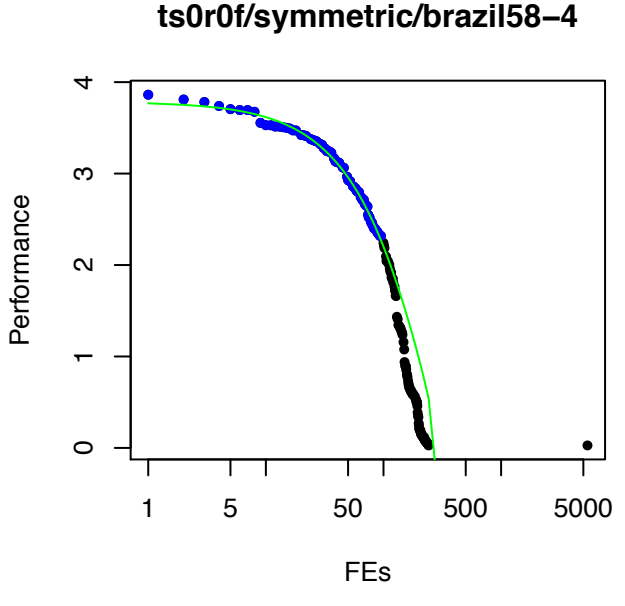
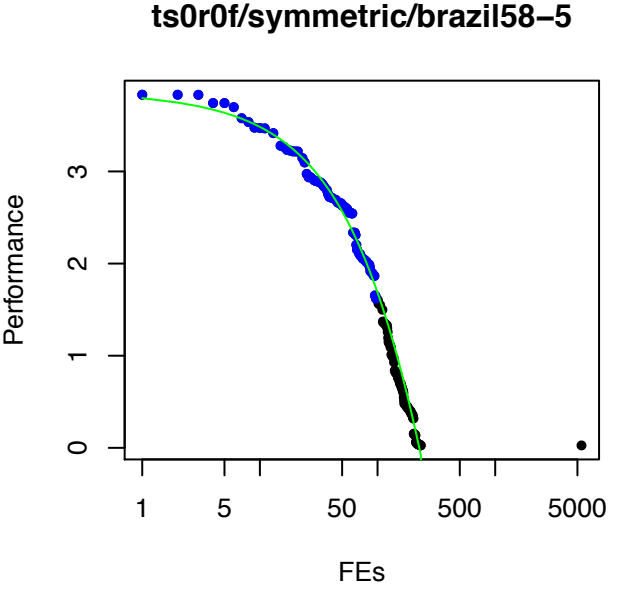
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/brazil58−4
Performance
0
1
2
3
4
1
5
50
500
5000
FEs


ts0r0f/symmetric/brazil58−5
Performance
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2
3
1
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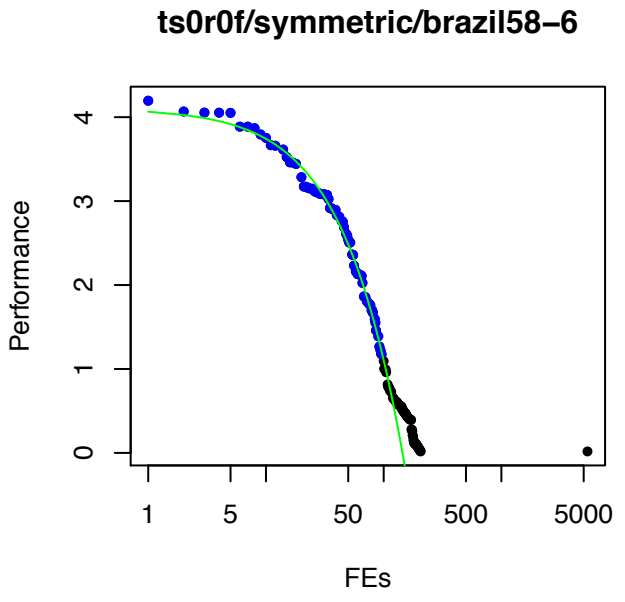
50
500
5000
FEs


ts0r0f/symmetric/brazil58−6
Performance
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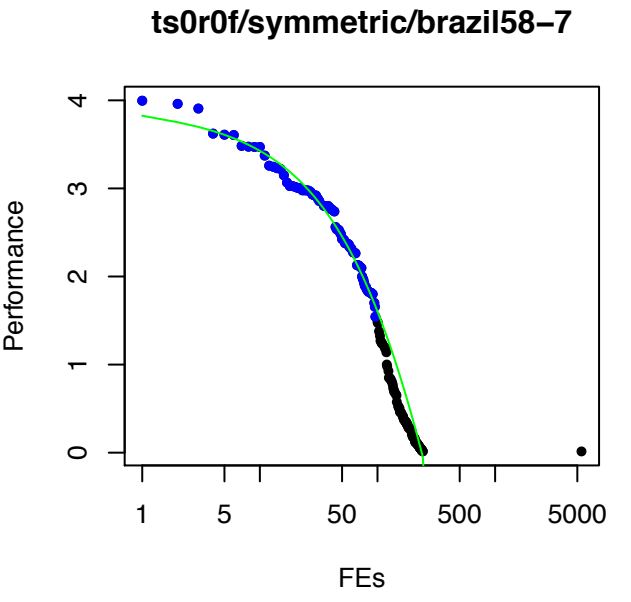
2
3
4
1
5
50
500
5000
FEs


ts0r0f/symmetric/brazil58−7
Performance
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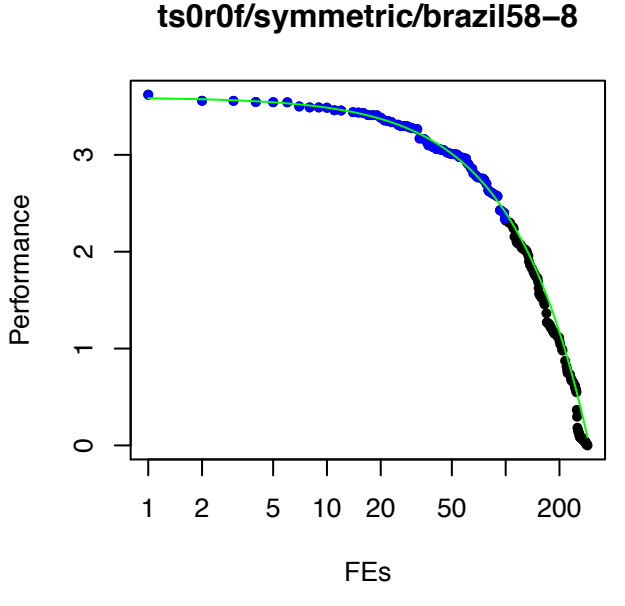
1
2
3
4
1
5
50
500
5000
FEs


ts0r0f/symmetric/brazil58−8
Performance
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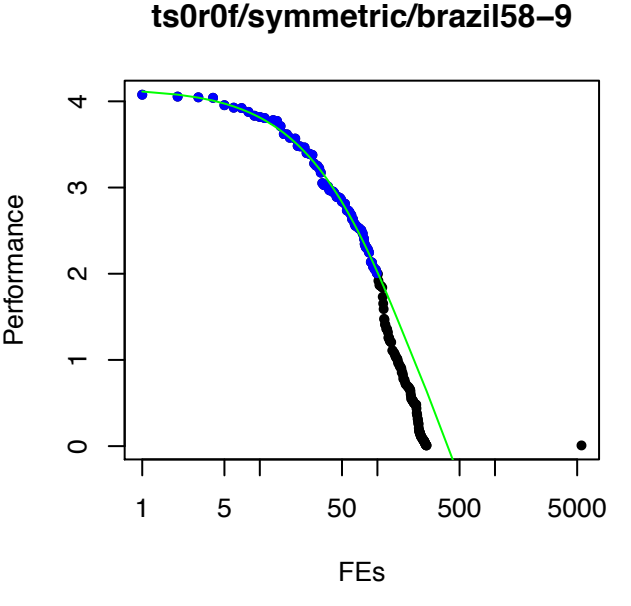
2
3
1
2
5
10
20
50
200
FEs


ts0r0f/symmetric/brazil58−9
Performance
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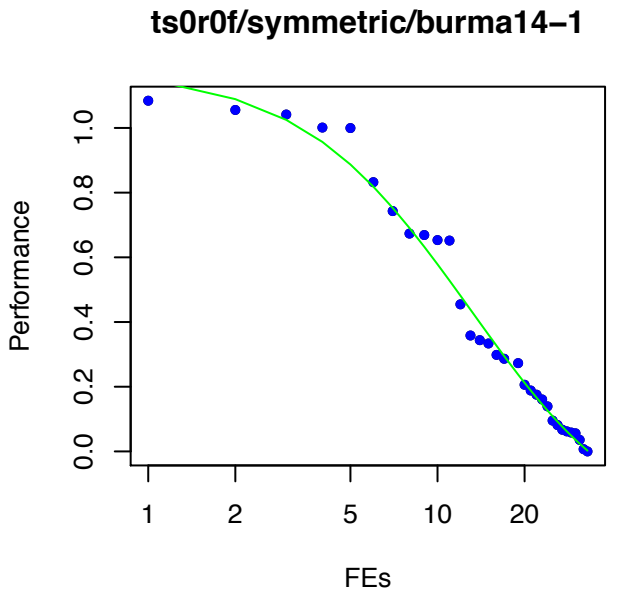
2
3
4
1
5
50
500
5000
FEs


ts0r0f/symmetric/burma14−1
Performance
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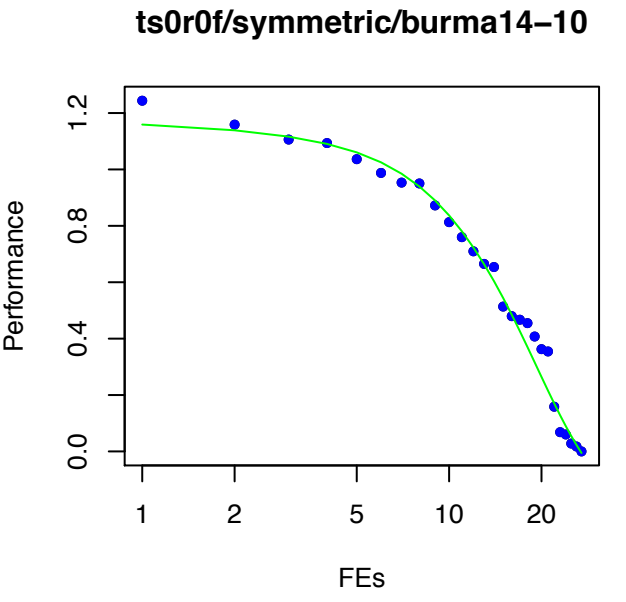
0.6
0.8
1.0
1
2
5
10
20
FEs


ts0r0f/symmetric/burma14−10
Performance
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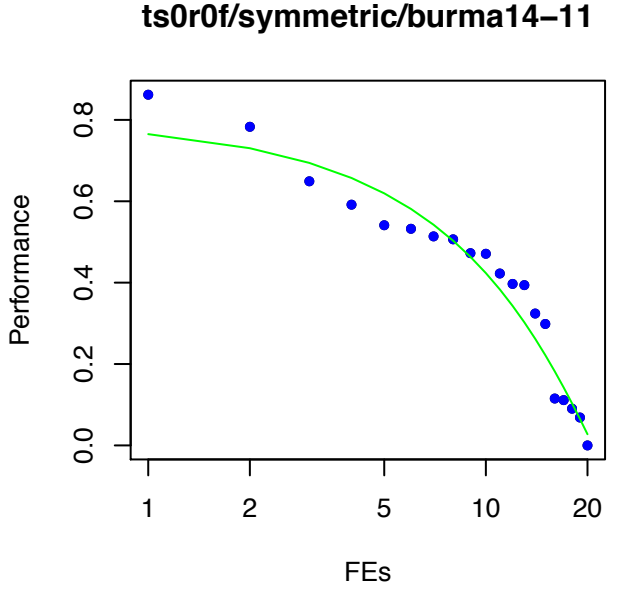
0.8
1.2
1
2
5
10
20
FEs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Performance
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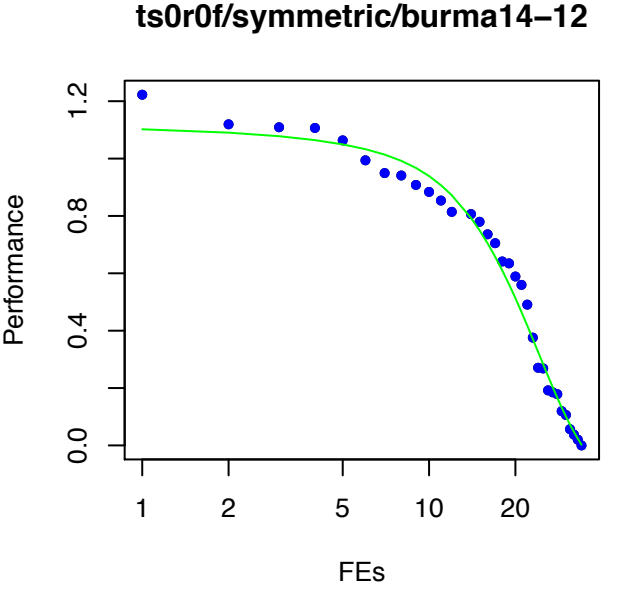
2
5
10
20
FEs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Performance
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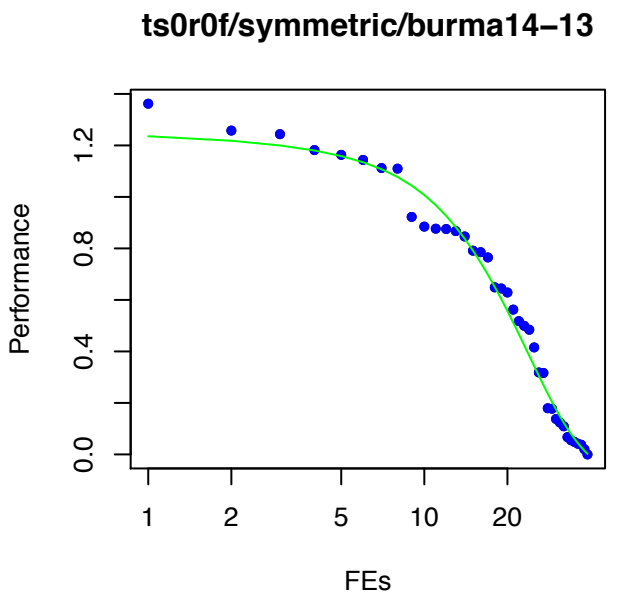
0.8
1.2
1
2
5
10
20
FEs


ts0r0f/symmetric/burma14−13
Performance
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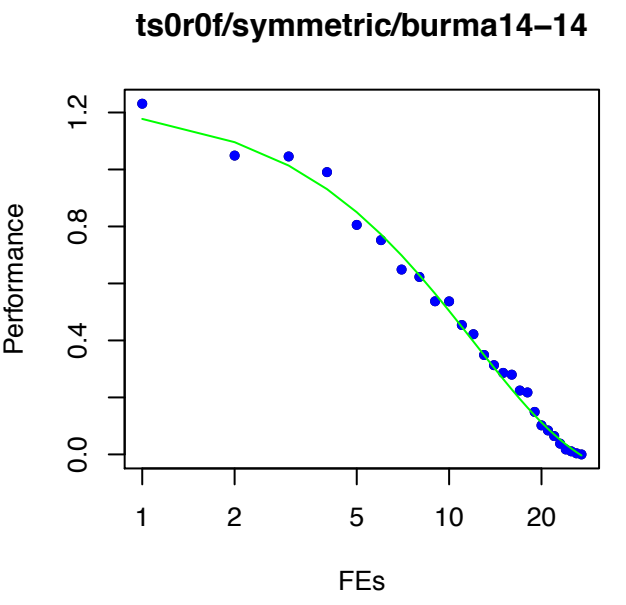
0.8
1.2
1
2
5
10
20
FEs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0.8
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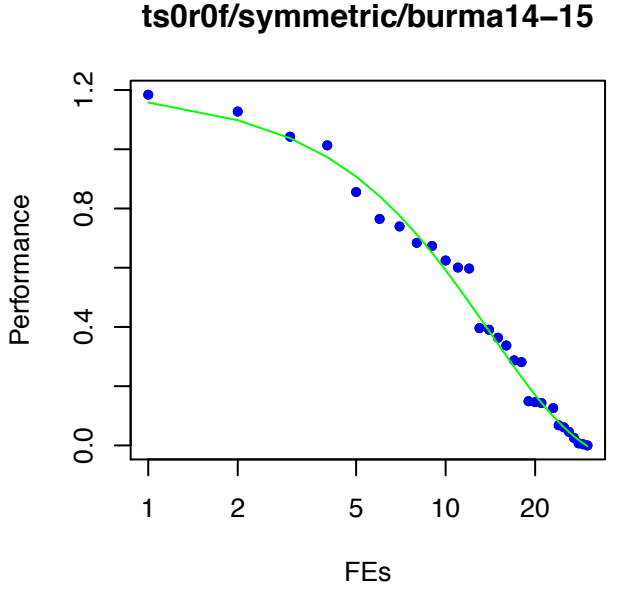
1
2
5
10
20
FEs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Performance
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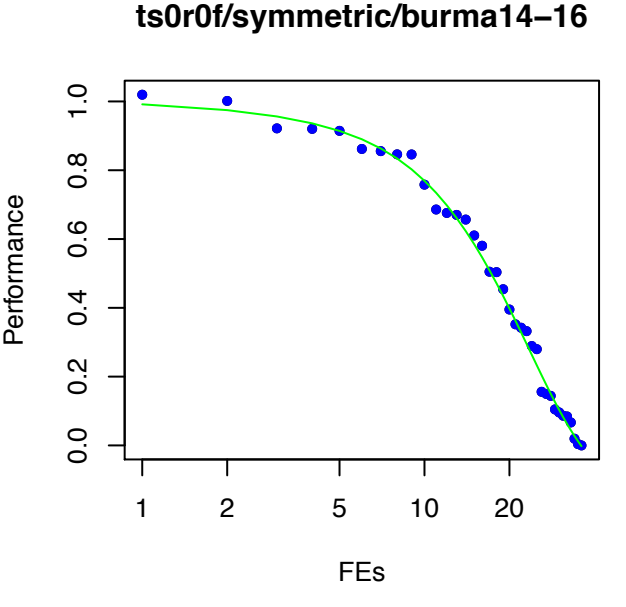
1.2
1
2
5
10
20
FEs


ts0r0f/symmetric/burma14−16
Performance
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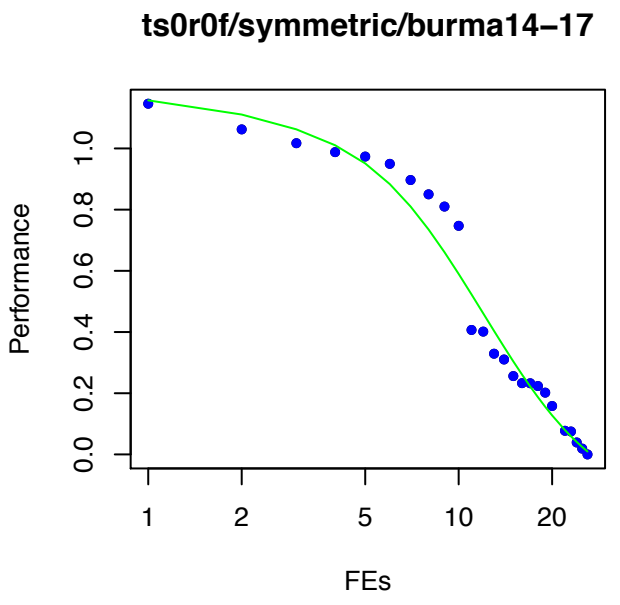
0.8
1.0
1
2
5
10
20
FEs


ts0r0f/symmetric/burma14−17
Performance
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0.8
1.0
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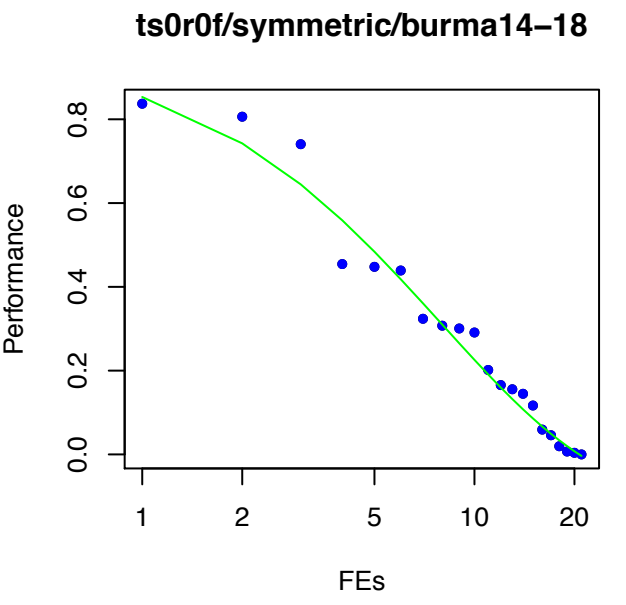
2
5
10
20
FEs


ts0r0f/symmetric/burma14−18
Performance
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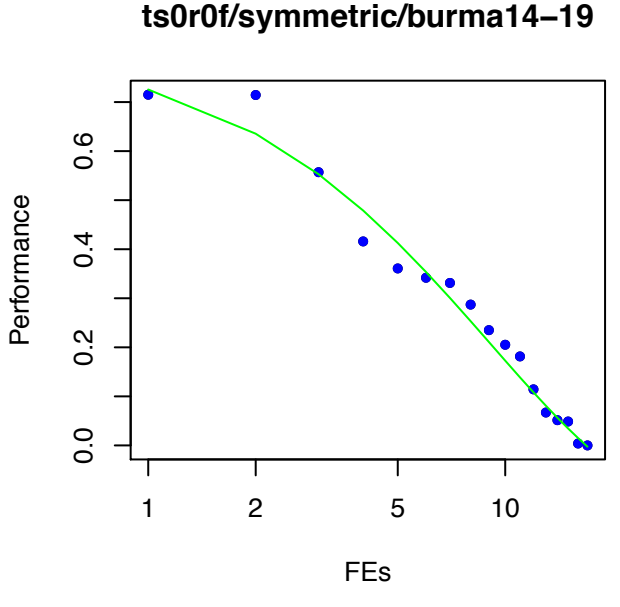
0.8
1
2
5
10
20
FEs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Performance
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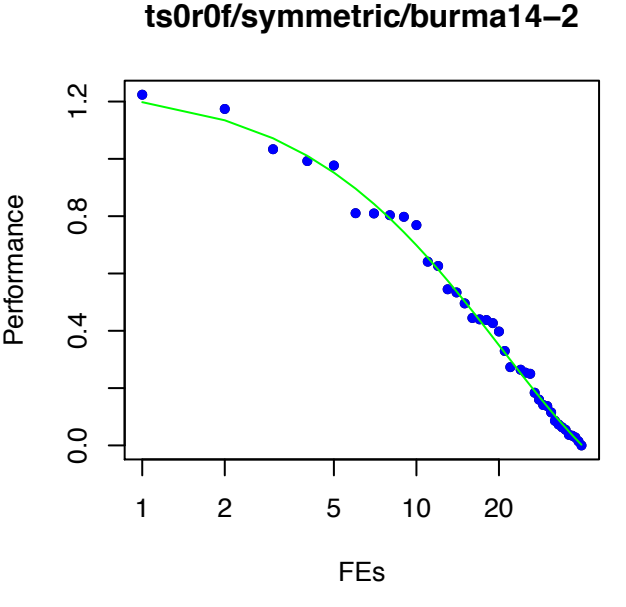
0.6
1
2
5
10
FEs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Performance
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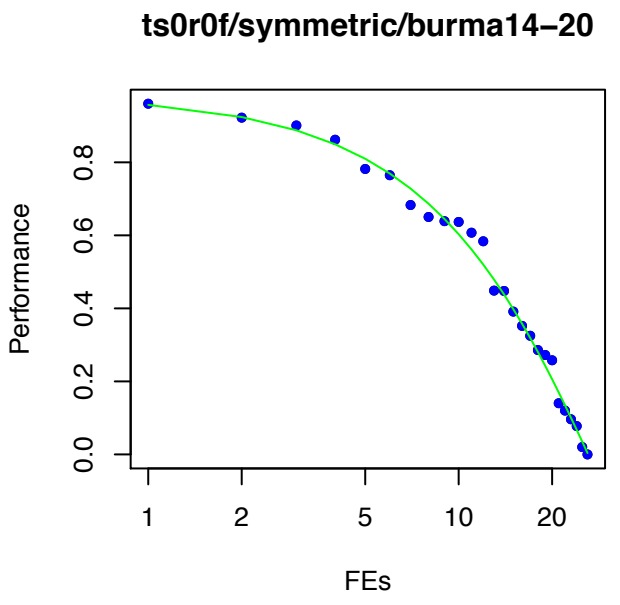
0.8
1.2
1
2
5
10
20
FEs


ts0r0f/symmetric/burma14−20
Performance
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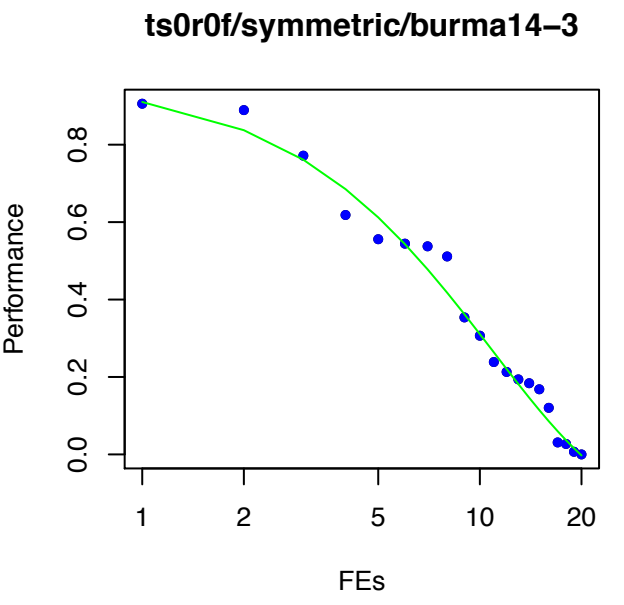
0.4
0.6
0.8
1
2
5
10
20
FEs


ts0r0f/symmetric/burma14−3
Performance
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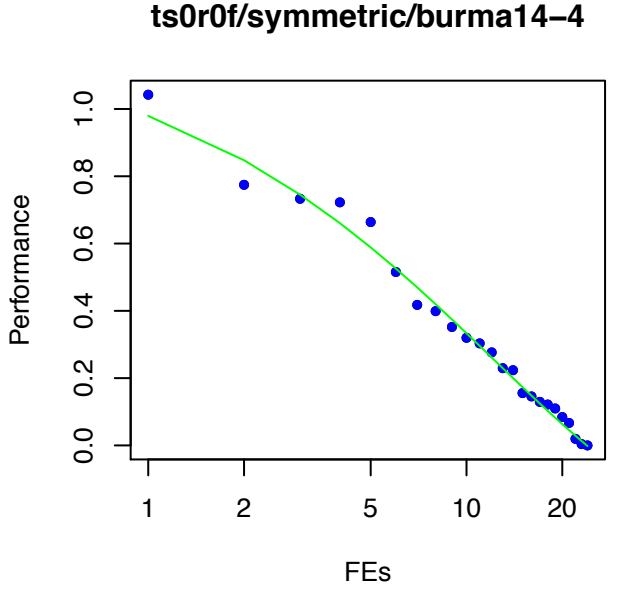
0.2
0.4
0.6
0.8
1
2
5
10
20
FEs


ts0r0f/symmetric/burma14−4
Performance
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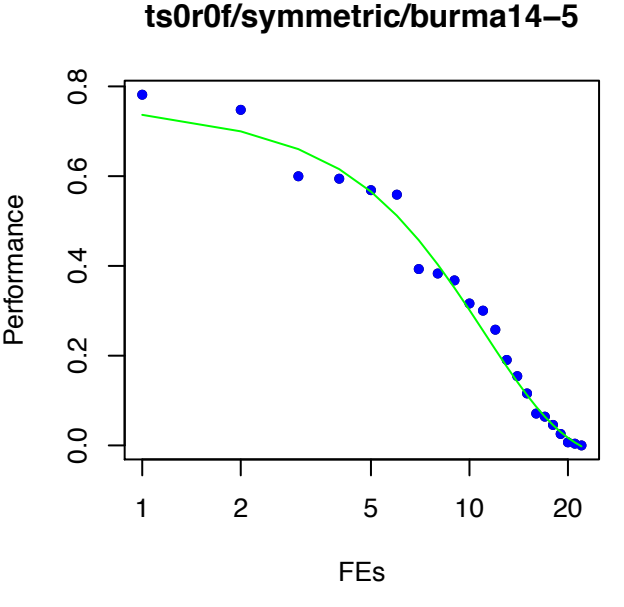
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
FEs


ts0r0f/symmetric/burma14−5
Performance
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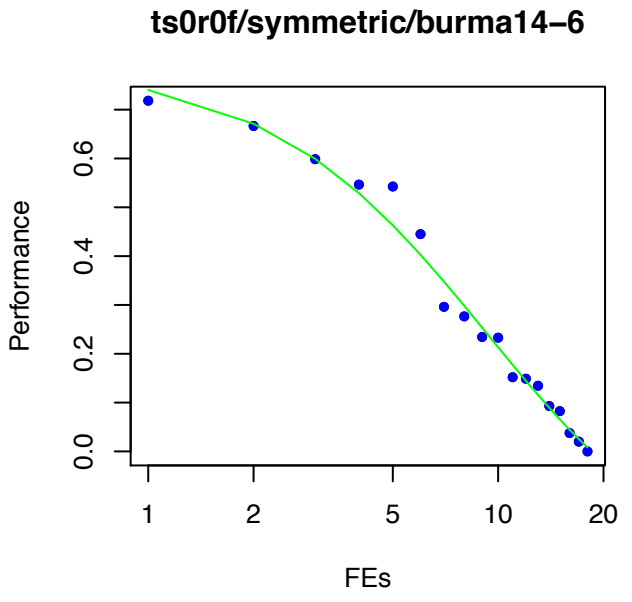
0.4
0.6
0.8
1
2
5
10
20
FEs


ts0r0f/symmetric/burma14−6
Performance
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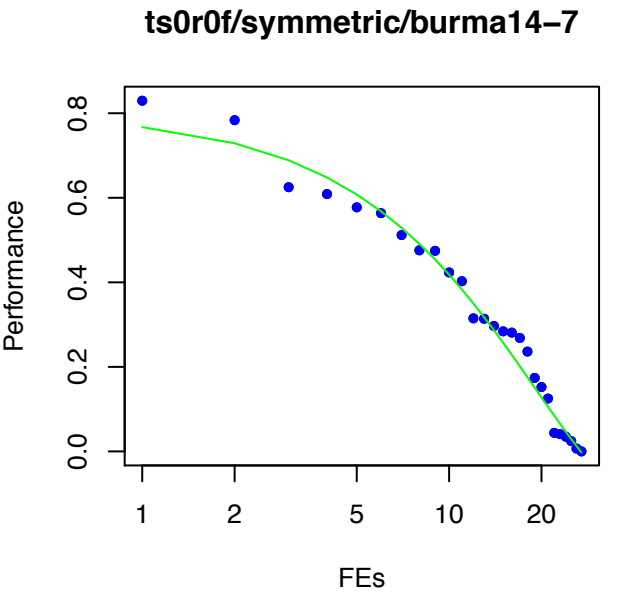
0.2
0.4
0.6
1
2
5
10
20
FEs


ts0r0f/symmetric/burma14−7
Performance
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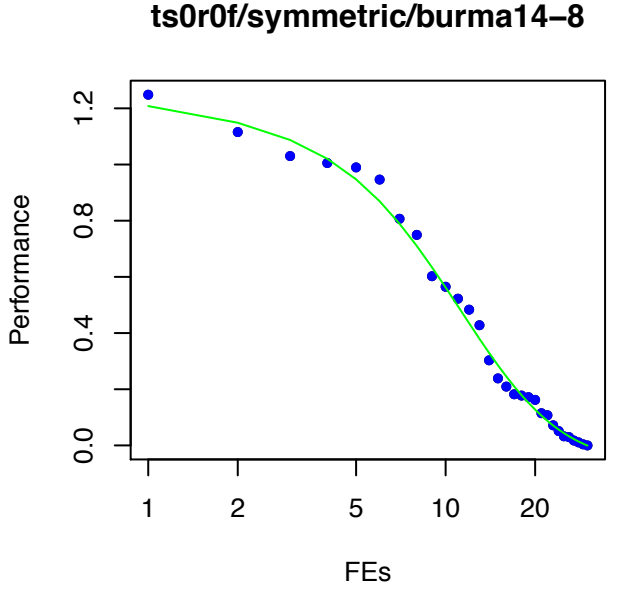
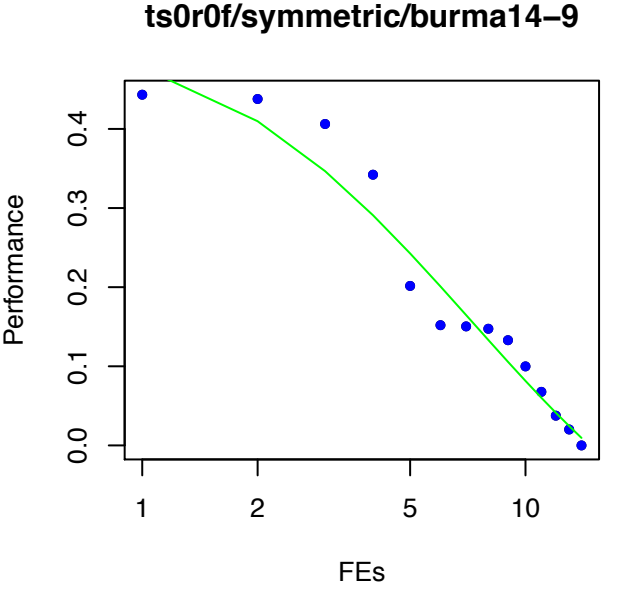
0.2
0.4
0.6
0.8
1
2
5
10
20
FEs


ts0r0f/symmetric/burma14−8
Performance
0.0
0.4
0.8
1.2
1
2
5
10
20
FEs


ts0r0f/symmetric/burma14−9
Performance
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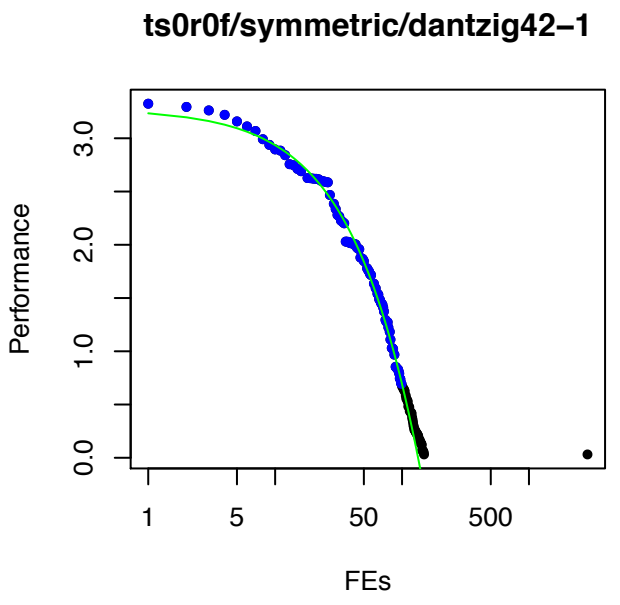
0.2
0.3
0.4
1
2
5
10
FEs


ts0r0f/symmetric/dantzig42−1
Performance
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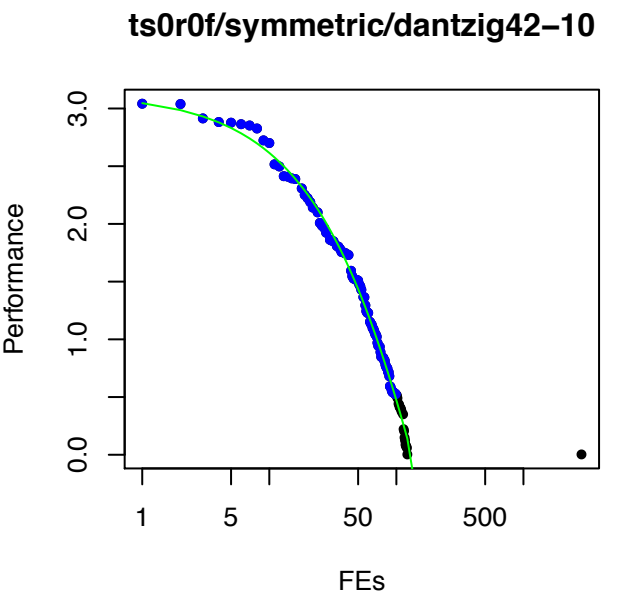
2.0
3.0
1
5
50
500
FEs


ts0r0f/symmetric/dantzig42−10
Performance
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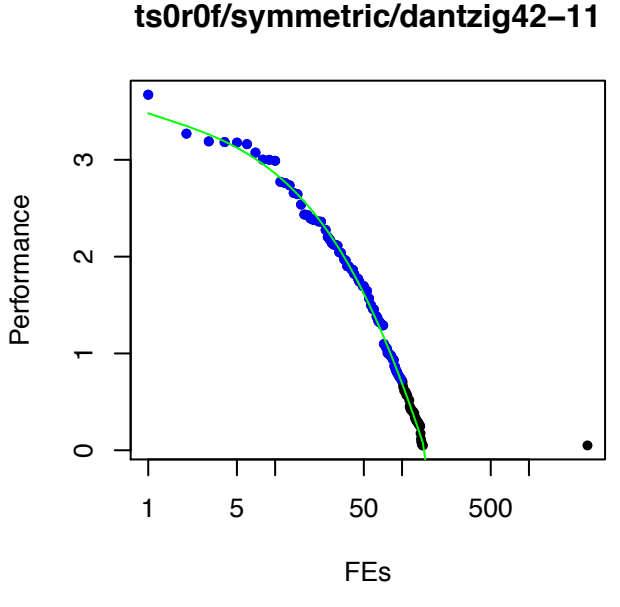
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0f/symmetric/dantzig42−11
Performance
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1
2
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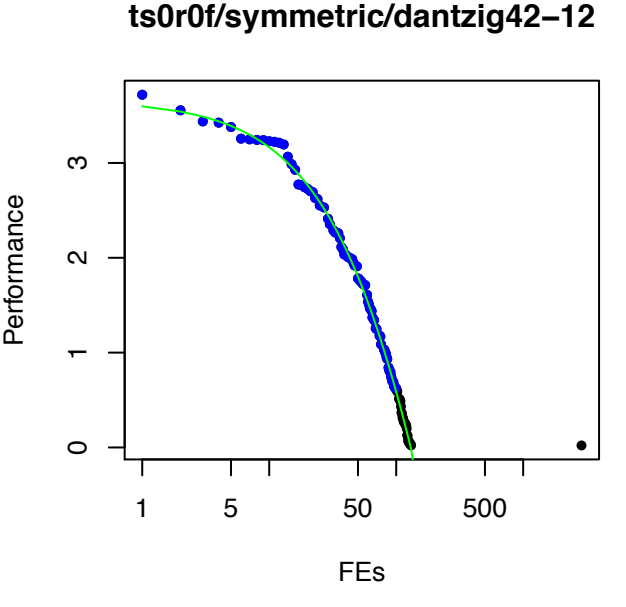
500
FEs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5
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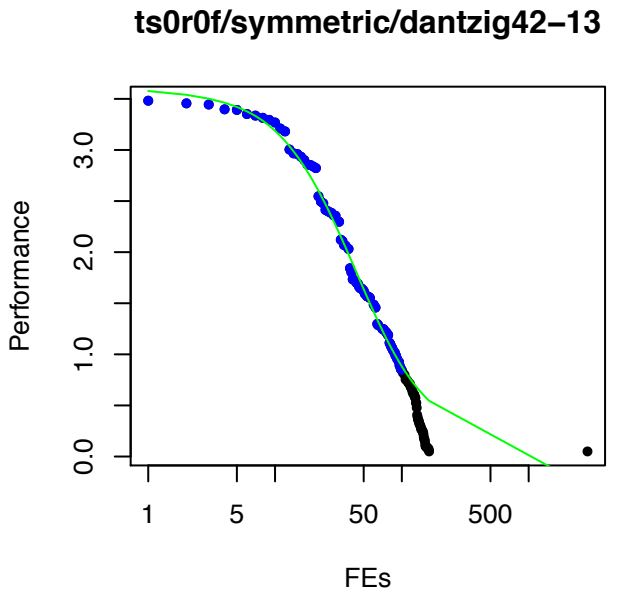
ts0r0f/symmetric/dantzig42−13
Performance
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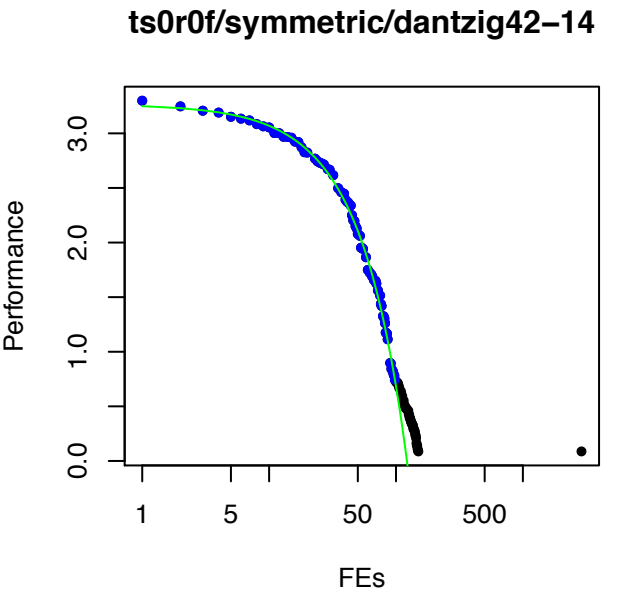
1.0
2.0
3.0
1
5
50
500
FEs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Performance
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1.0
2.0
3.0
1
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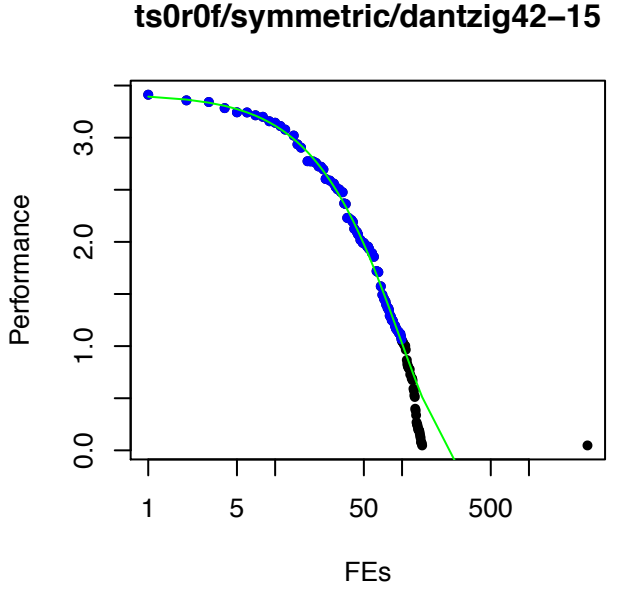
500
FEs


ts0r0f/symmetric/dantzig42−15
Performance
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500
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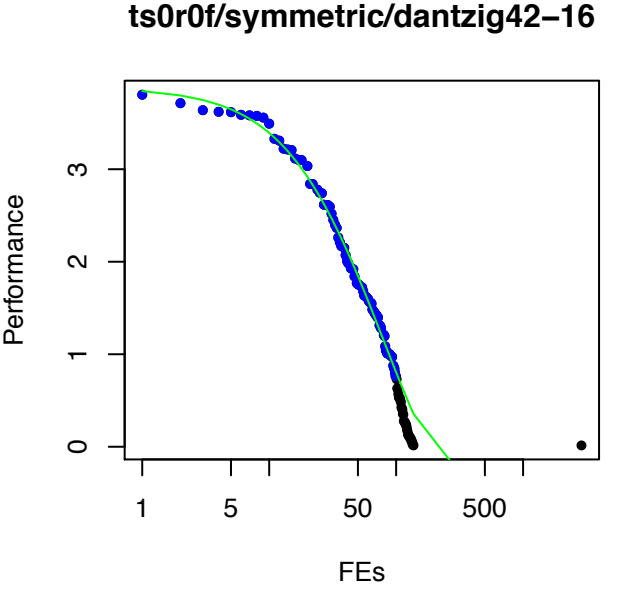
ts0r0f/symmetric/dantzig42−16
Performance
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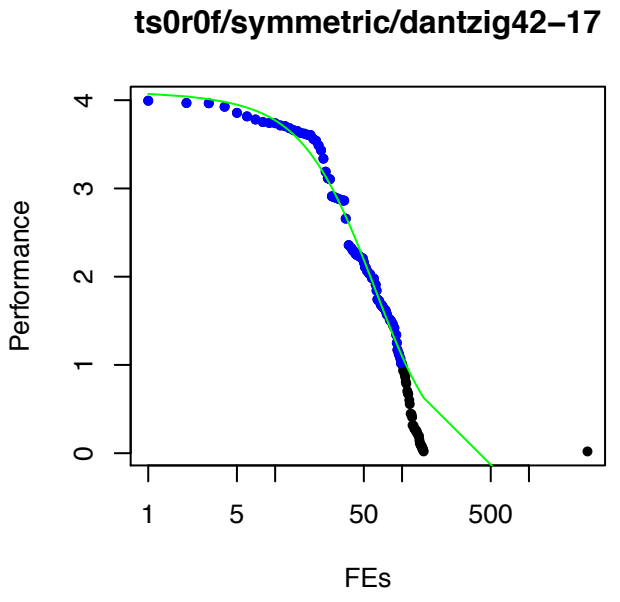
1
2
3
1
5
50
500
FEs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Performance
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2
3
4
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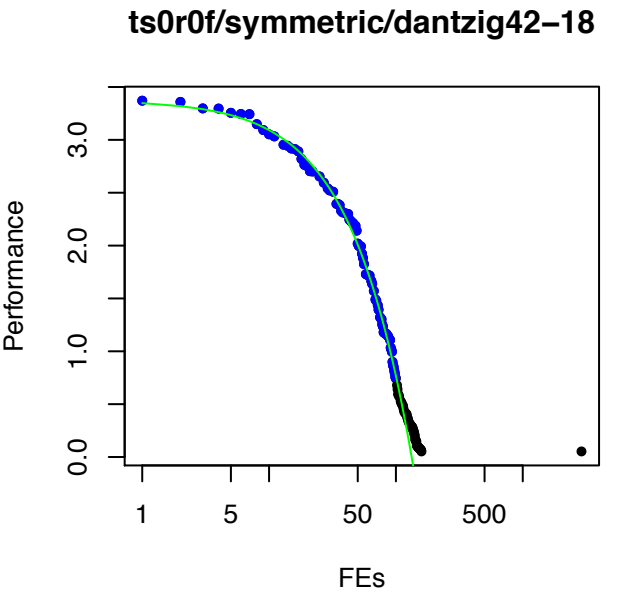
5
50
500
FEs


ts0r0f/symmetric/dantzig42−18
Performance
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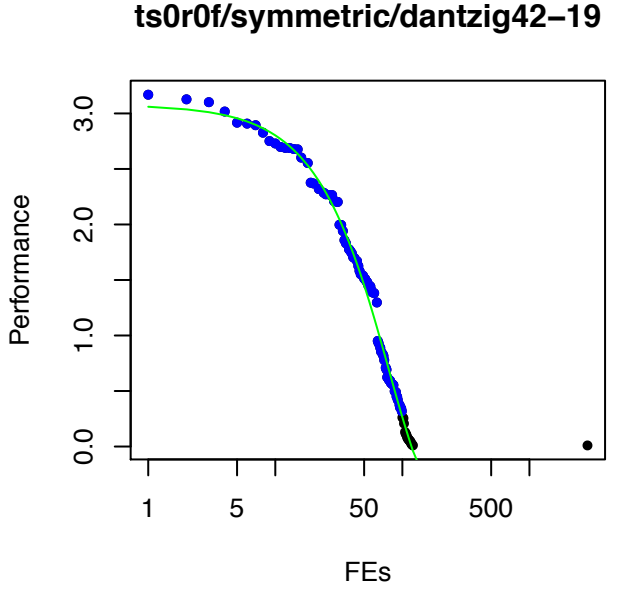
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0f/symmetric/dantzig42−19
Performance
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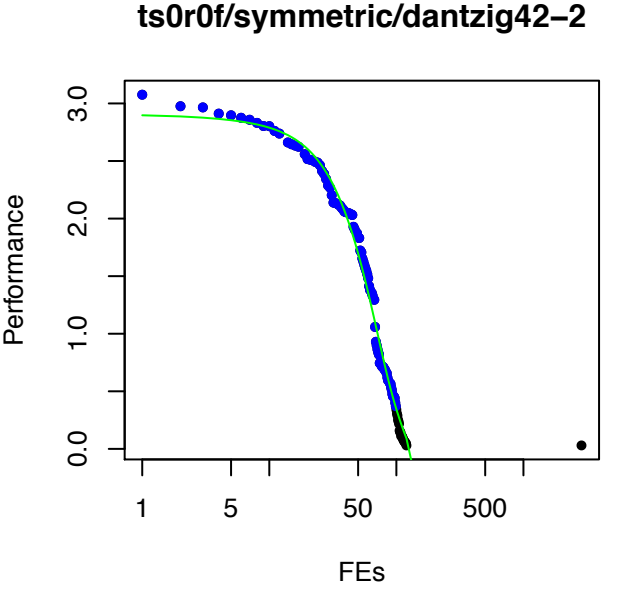
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0f/symmetric/dantzig42−2
Performance
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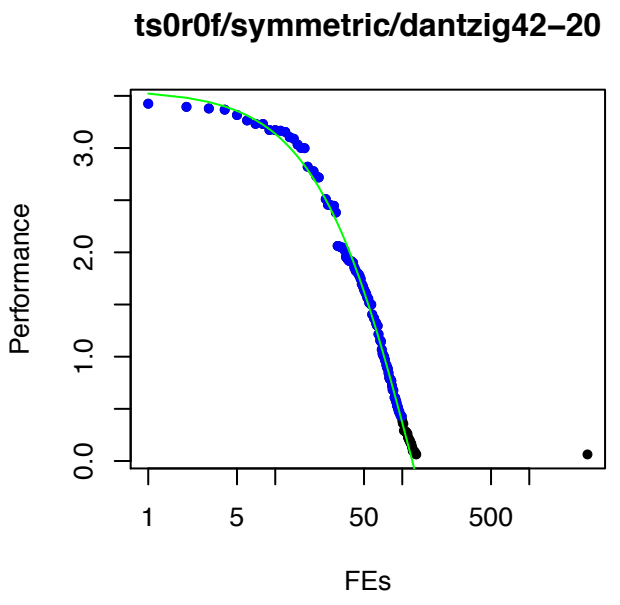
1.0
2.0
3.0
1
5
50
500
FEs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Performance
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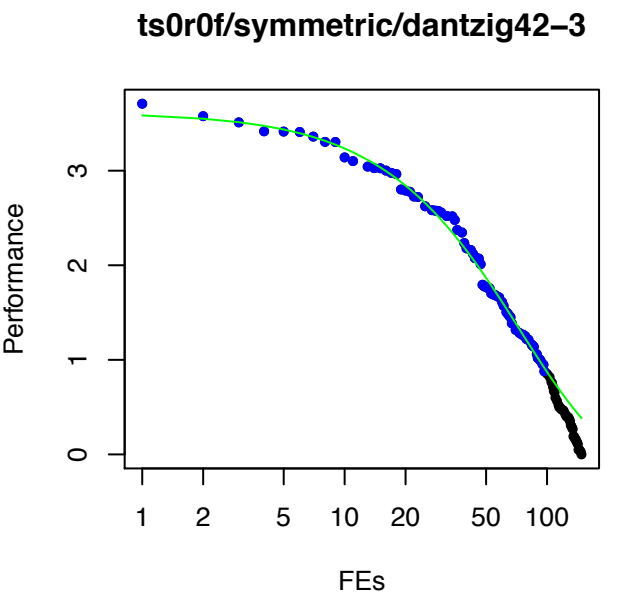
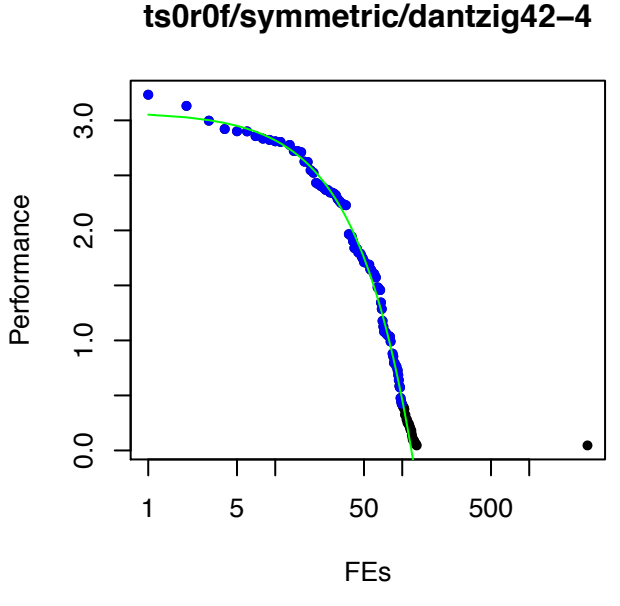
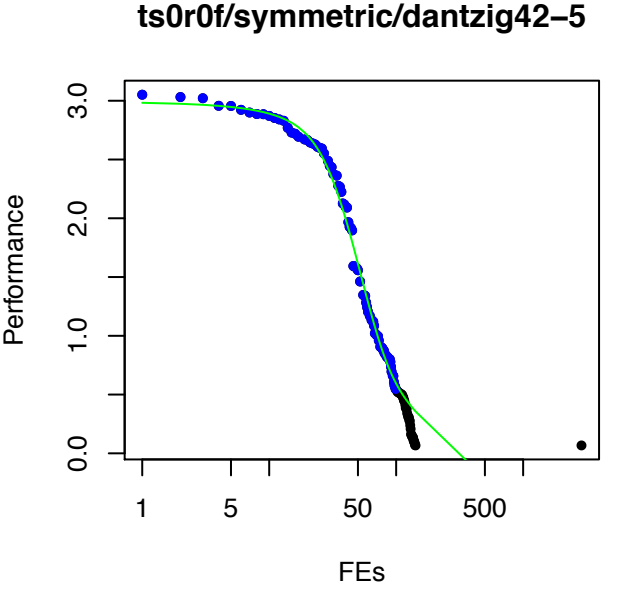
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0f/symmetric/dantzig42−3
Performance
0
1
2
3
1
2
5
10
20
50
100
FEs


ts0r0f/symmetric/dantzig42−4
Performance
0.0
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0f/symmetric/dantzig42−5
Performance
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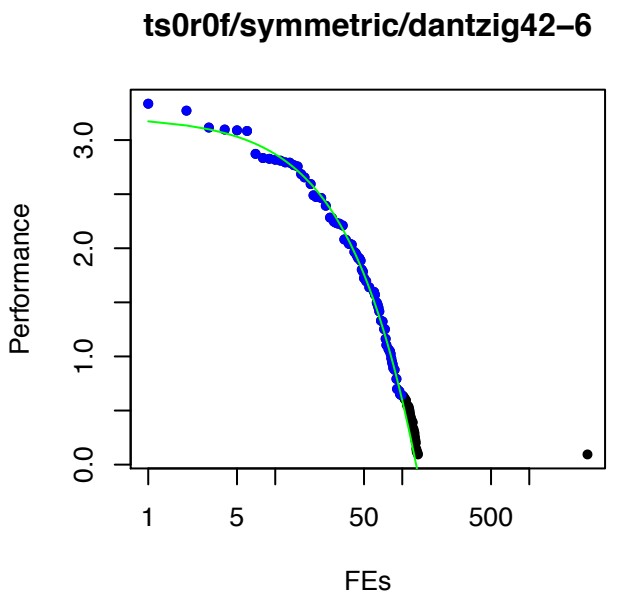
2.0
3.0
1
5
50
500
FEs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Performance
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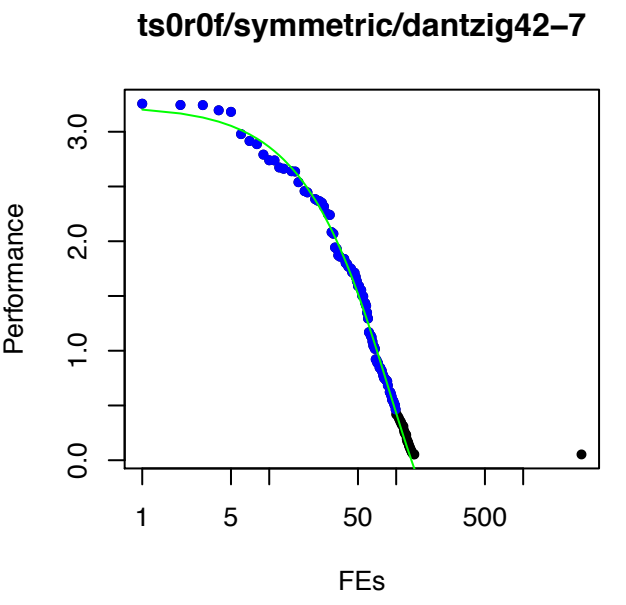
2.0
3.0
1
5
50
500
FEs


ts0r0f/symmetric/dantzig42−7
Performance
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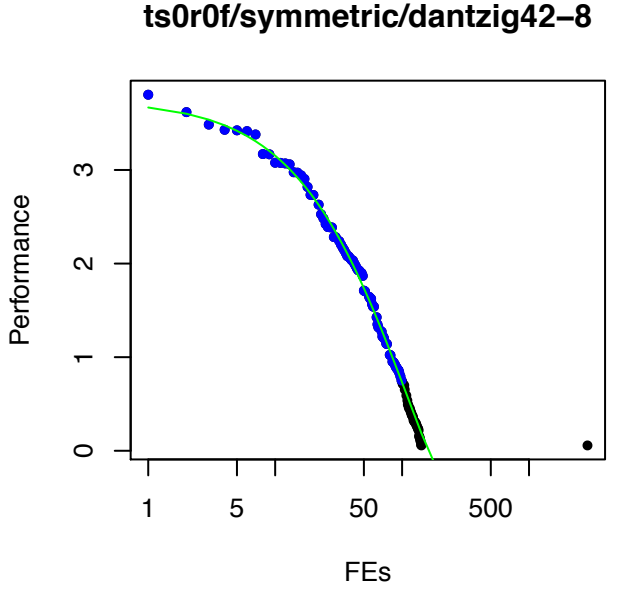
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0f/symmetric/dantzig42−8
Performance
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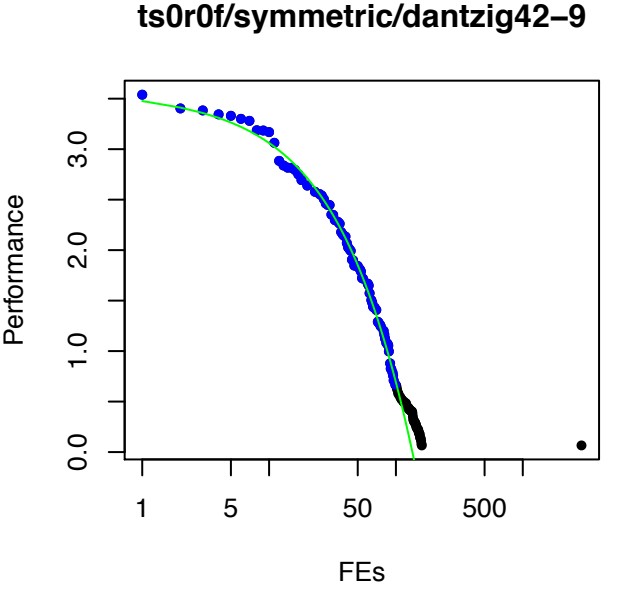
1
2
3
1
5
50
500
FEs


ts0r0f/symmetric/dantzig42−9
Performance
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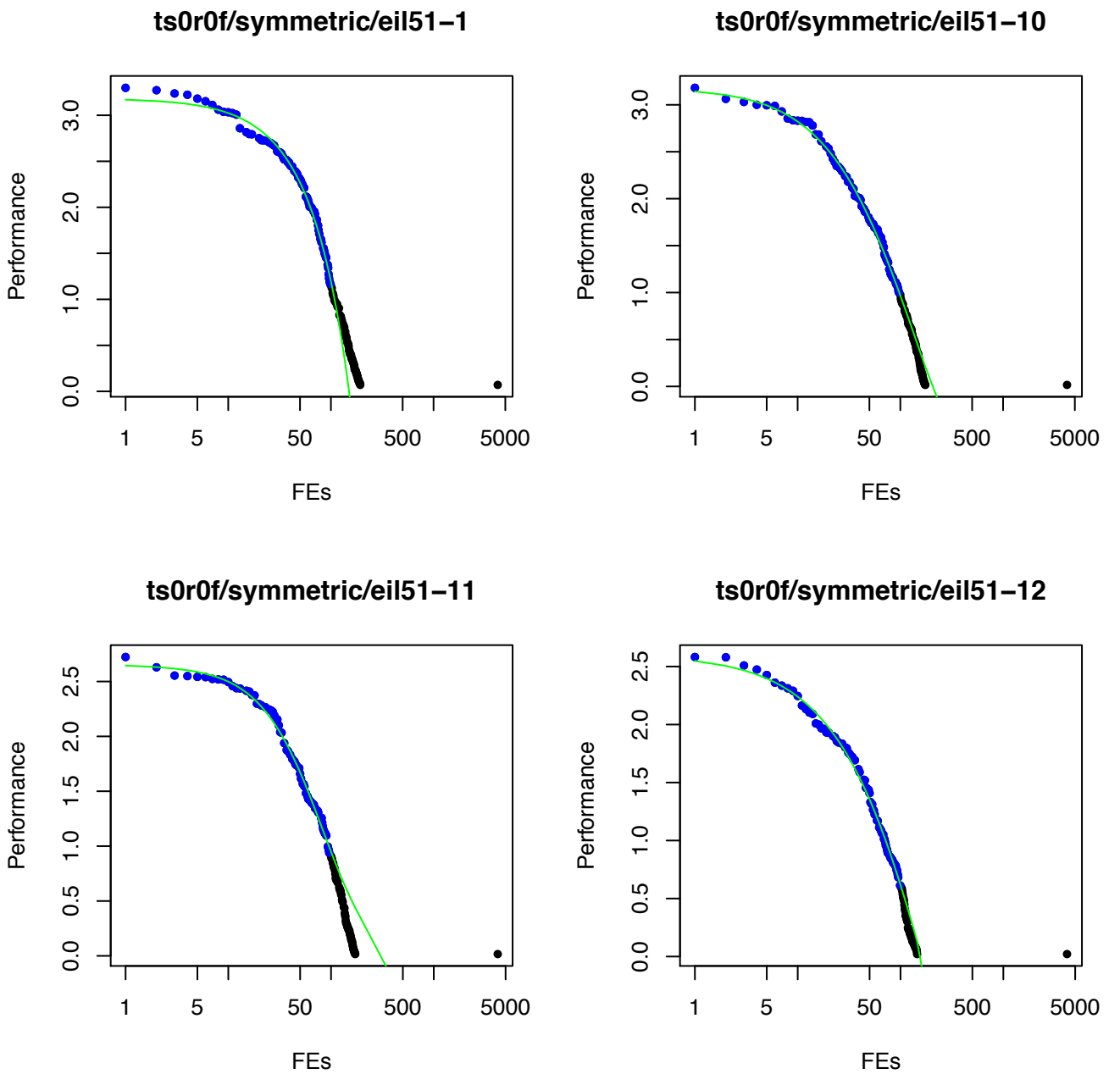
1.0
2.0
3.0
1
5
50
500
FEs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ts0r0f/symmetric/eil51−10
ts0r0f/symmetric/eil51−11
ts0r0f/symmetric/eil51−12
Performance
FEs
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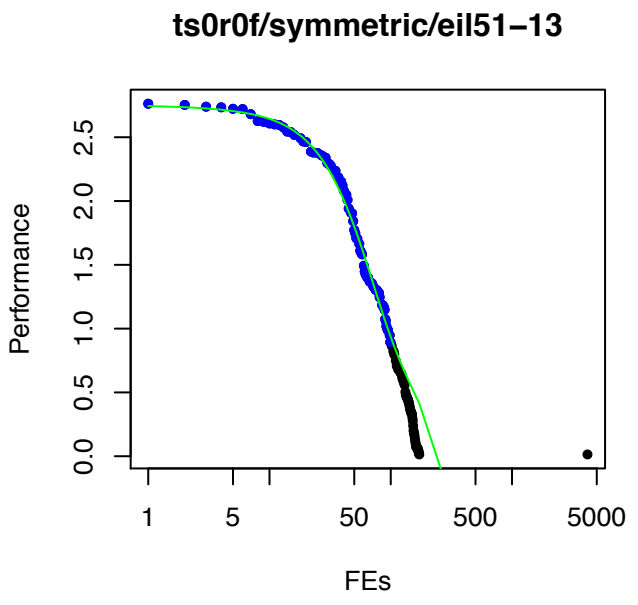
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000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Performance
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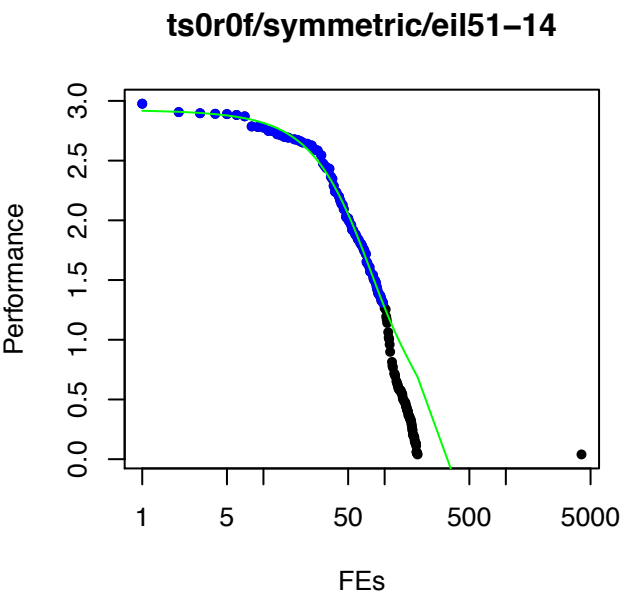
1.5
2.0
2.5
1
5
50
500
5000
FEs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Performance
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3.0
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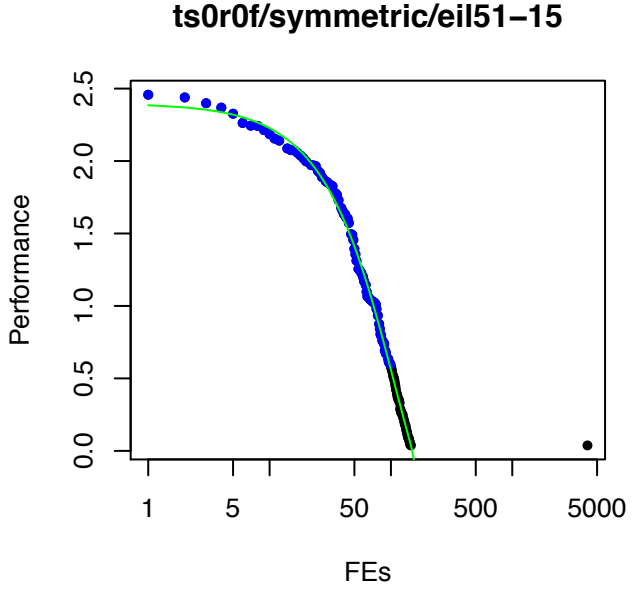
50
500
5000
FEs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Performance
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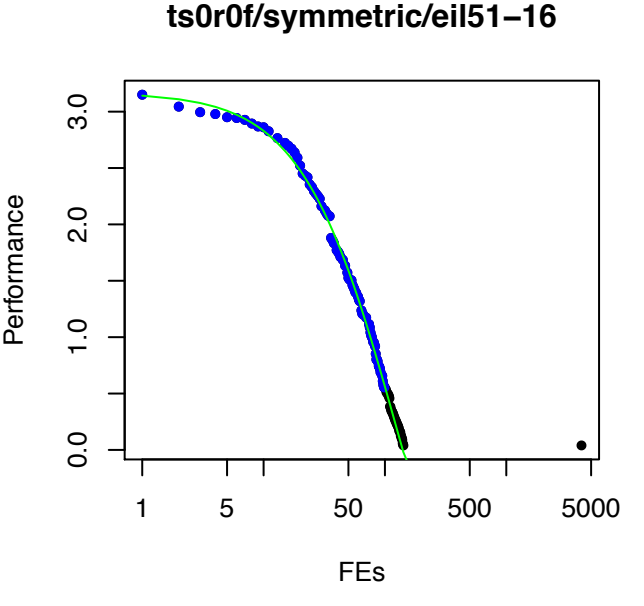
1.5
2.0
2.5
1
5
50
500
5000
FEs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Performance
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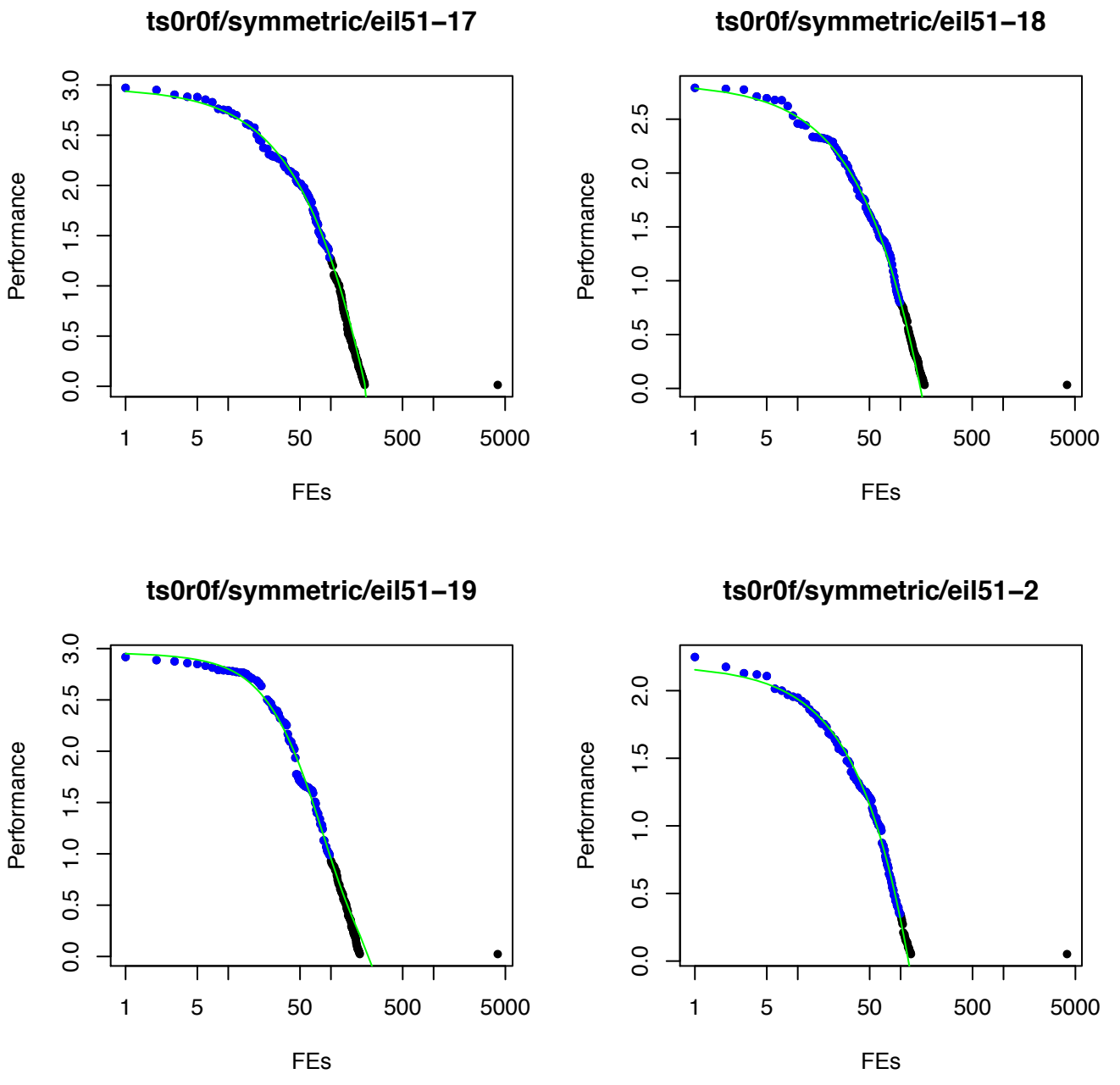
2.0
3.0
1
5
50
500
5000
FEs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ts0r0f/symmetric/eil51−18
ts0r0f/symmetric/eil51−19
ts0r0f/symmetric/eil51−2
Performance
FEs
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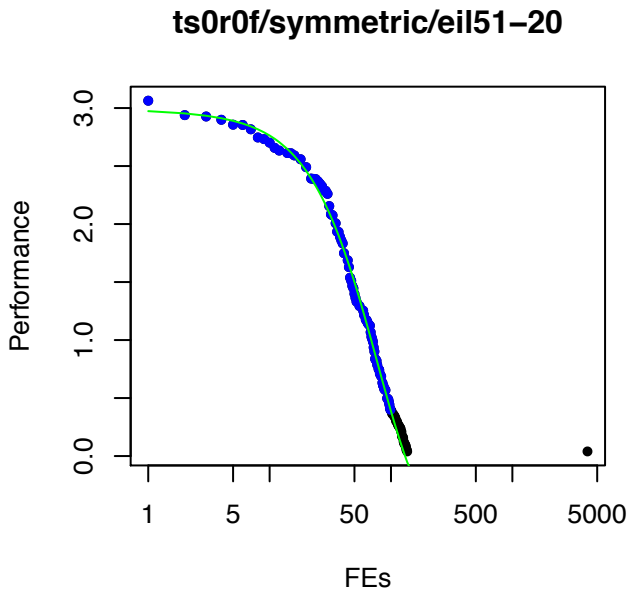
1.5
2.0
2.5
3.0
1
5
50
500
5000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Performance
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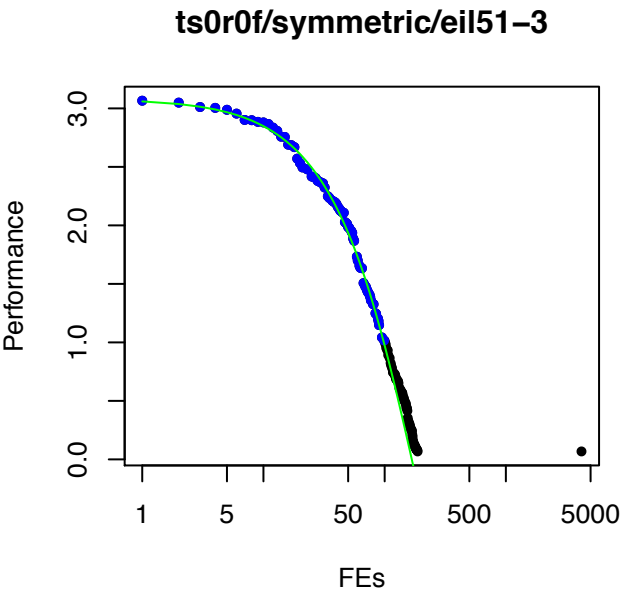
500
5000
FEs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Performance
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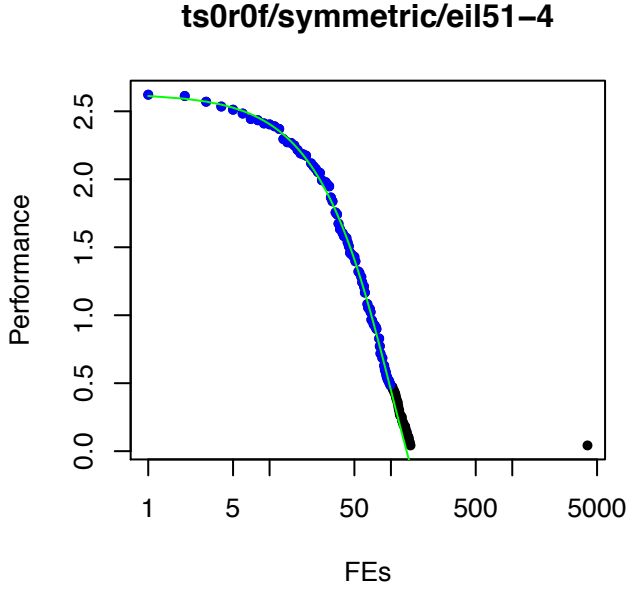
3.0
1
5
50
500
5000
FEs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Performance
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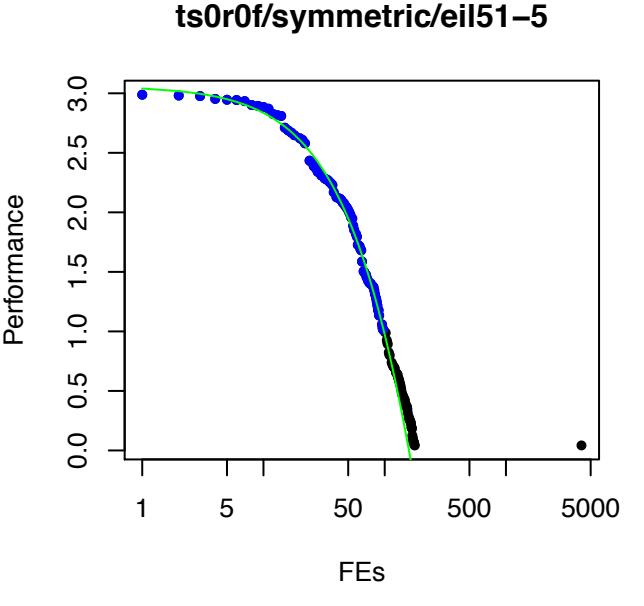
1.5
2.0
2.5
1
5
50
500
5000
FEs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Performance
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1.5
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2.5
3.0
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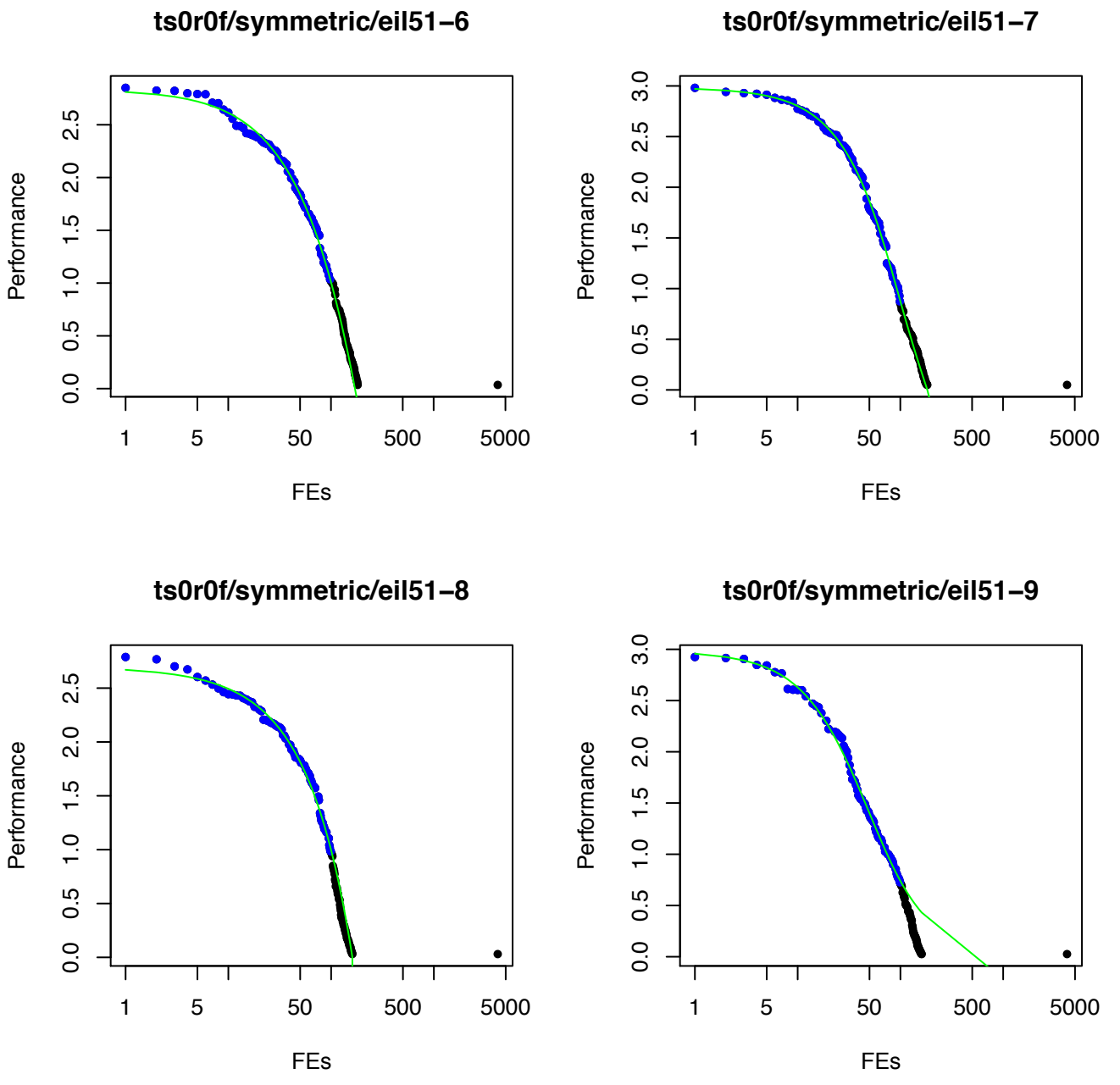
500
5000
FEs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ts0r0f/symmetric/eil51−7
ts0r0f/symmetric/eil51−8
ts0r0f/symmetric/eil51−9
Performance
FEs
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1.5
2.0
2.5
3.0
1
5
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500
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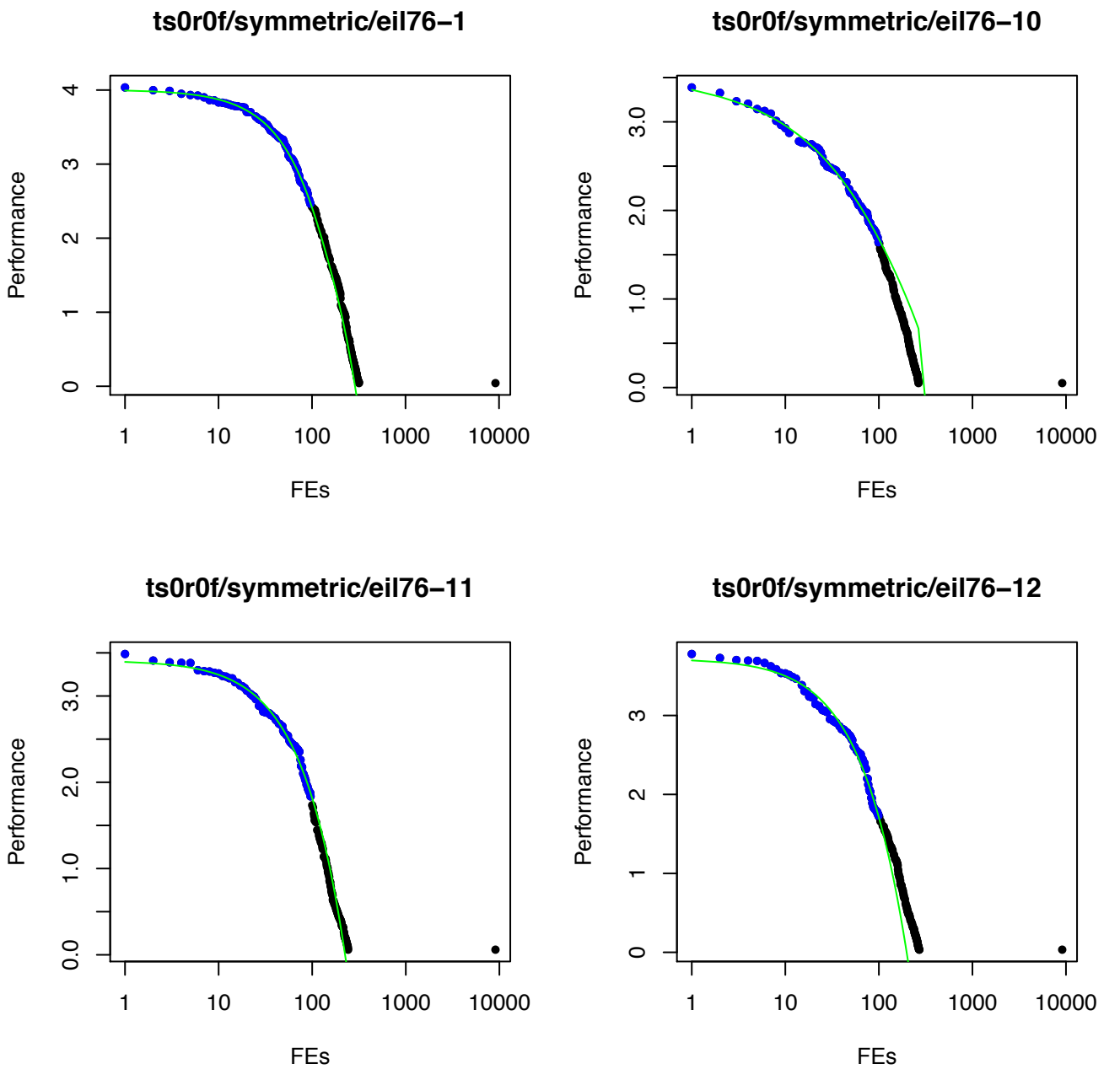
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ts0r0f/symmetric/eil76−10
ts0r0f/symmetric/eil76−11
ts0r0f/symmetric/eil76−12
Performance
FEs
1
10
100
1000
10000
0
1
2
3
4
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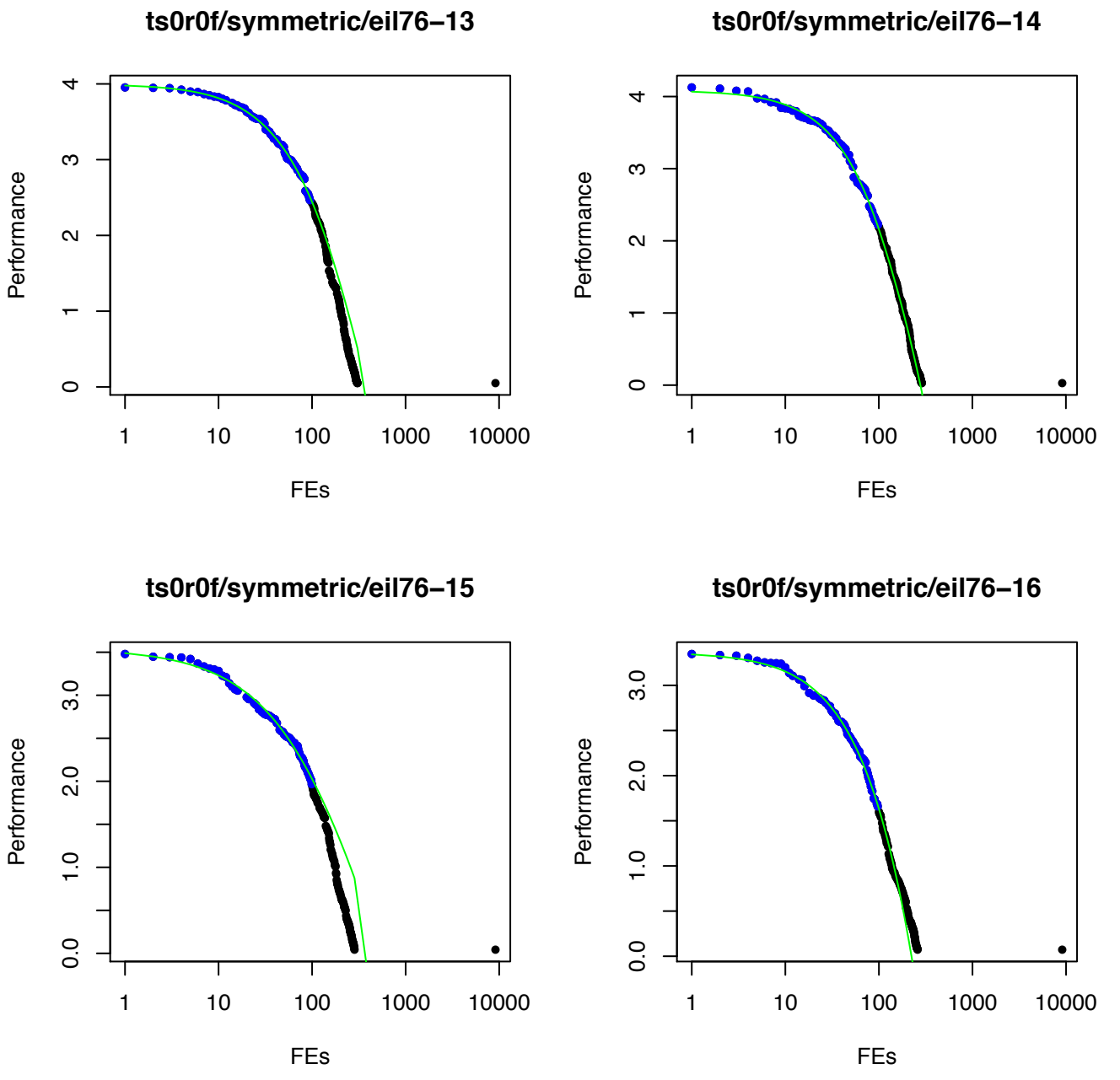
2.0
3.0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ts0r0f/symmetric/eil76−14
ts0r0f/symmetric/eil76−15
ts0r0f/symmetric/eil76−16
Performance
FEs
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2
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4
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2.0
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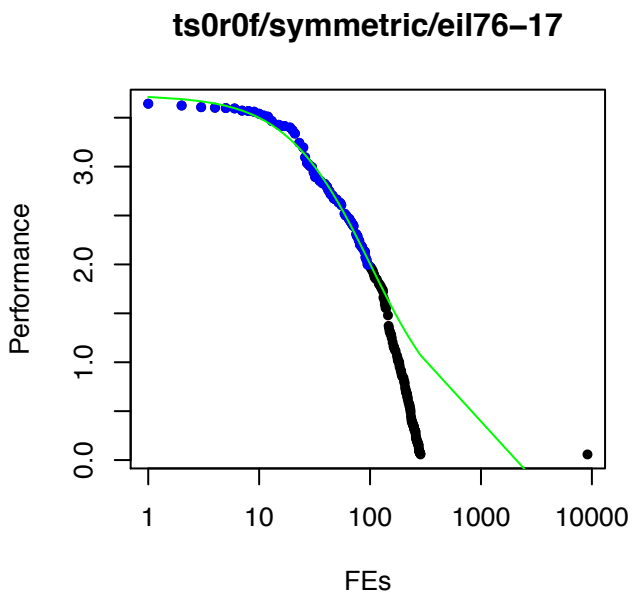
1000
10000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Performance
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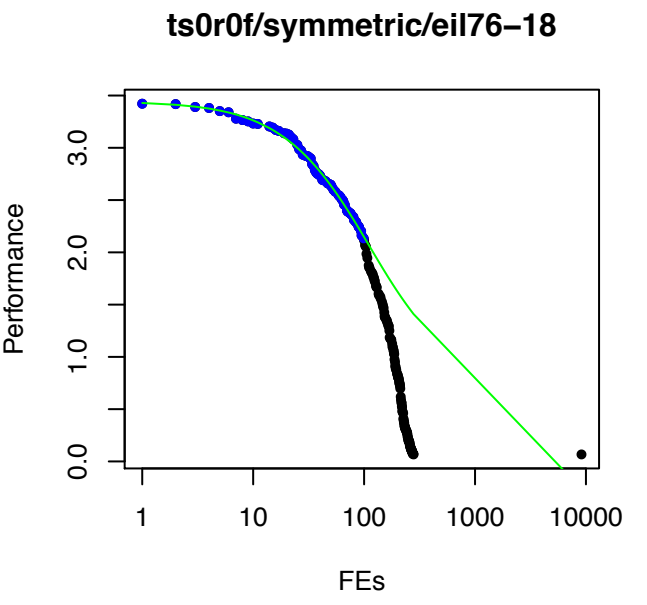
1000
10000
FEs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Performance
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3.0
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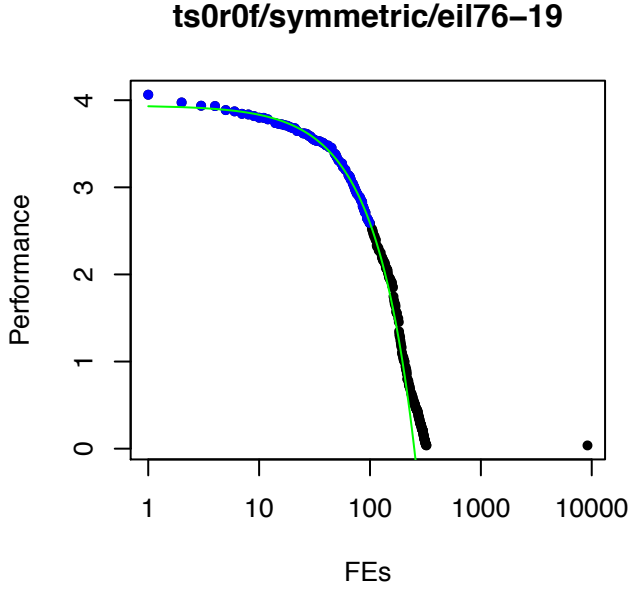
1000
10000
FEs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Performance
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3
4
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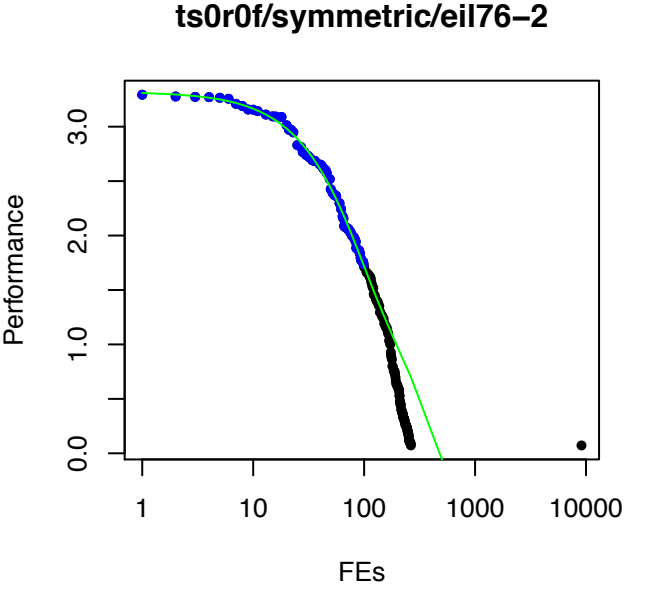
10000
FEs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Performance
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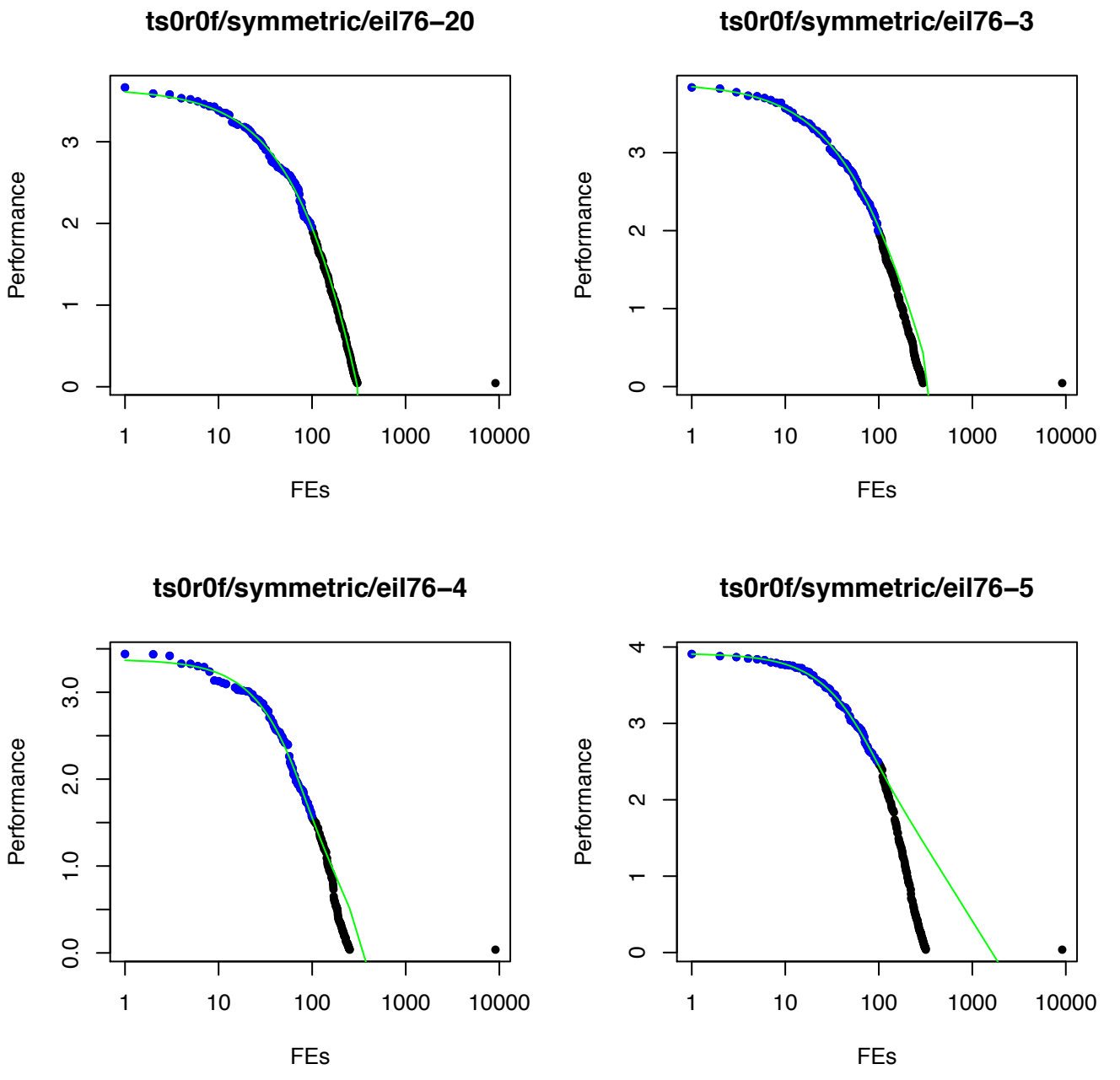
2.0
3.0
1
10
100
1000
10000
FEs


ts0r0f/symmetric/eil76−20
ts0r0f/symmetric/eil76−3
ts0r0f/symmetric/eil76−4
ts0r0f/symmetric/eil76−5
Performance
FEs
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2
3
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1.0
2.0
3.0
4
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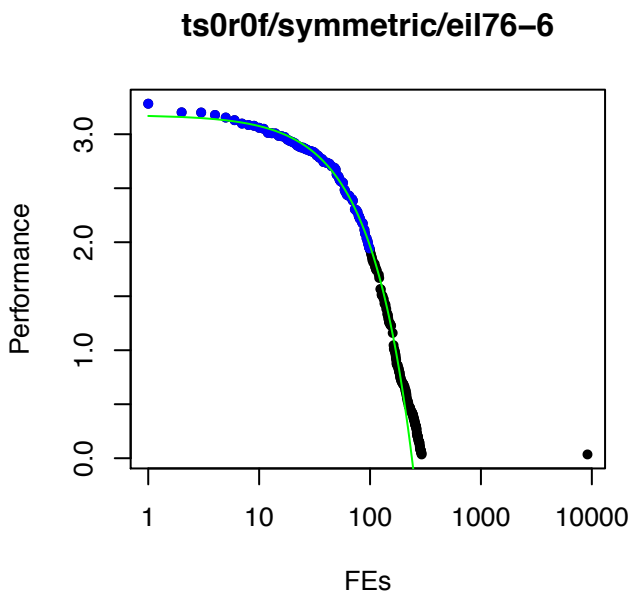
10
100
1000
10000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Performance
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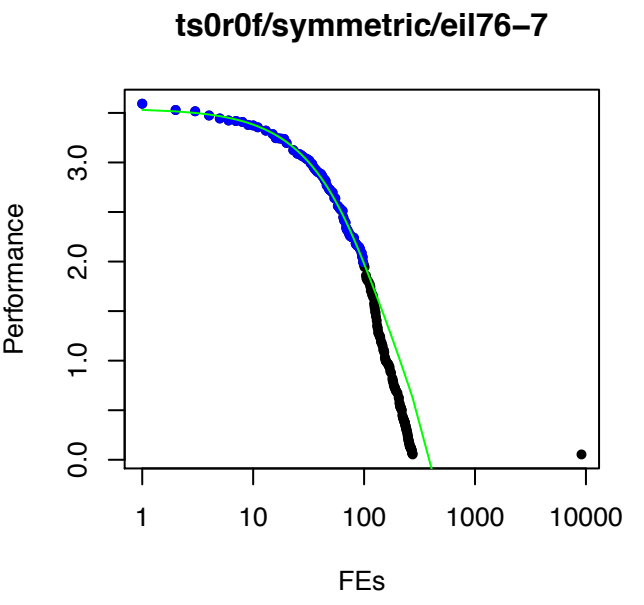
2.0
3.0
1
10
100
1000
10000
FEs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Performance
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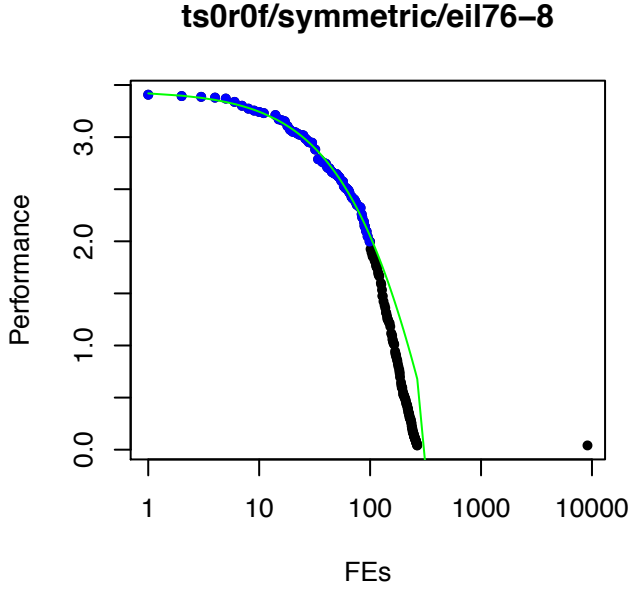
2.0
3.0
1
10
100
1000
10000
FEs


ts0r0f/symmetric/eil76−8
Performance
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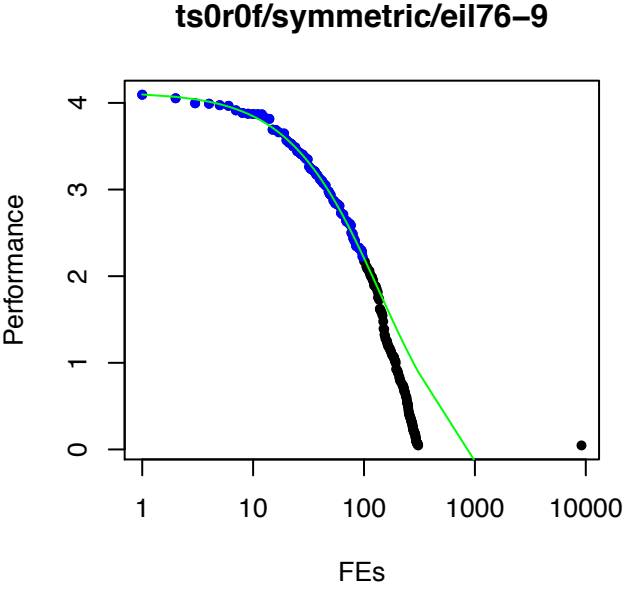
1.0
2.0
3.0
1
10
100
1000
10000
FEs


ts0r0f/symmetric/eil76−9
Performance
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1
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3
4
1
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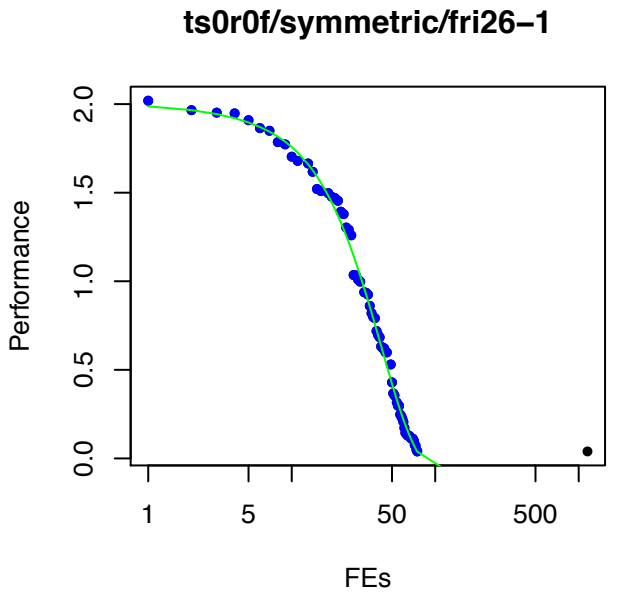
100
1000
10000
FEs


ts0r0f/symmetric/fri26−1
Performance
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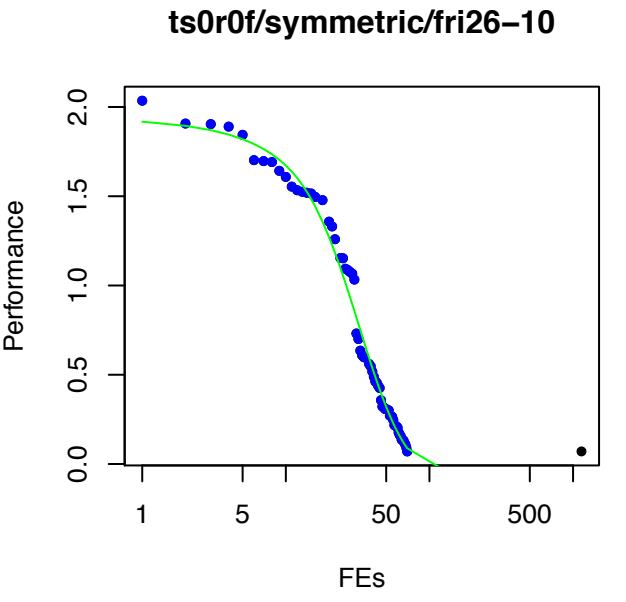
0.5
1.0
1.5
2.0
1
5
50
500
FEs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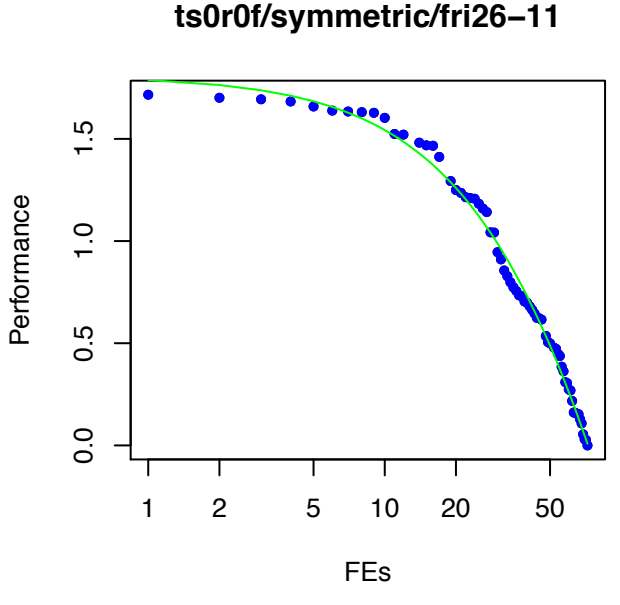
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/fri26−11
Performance
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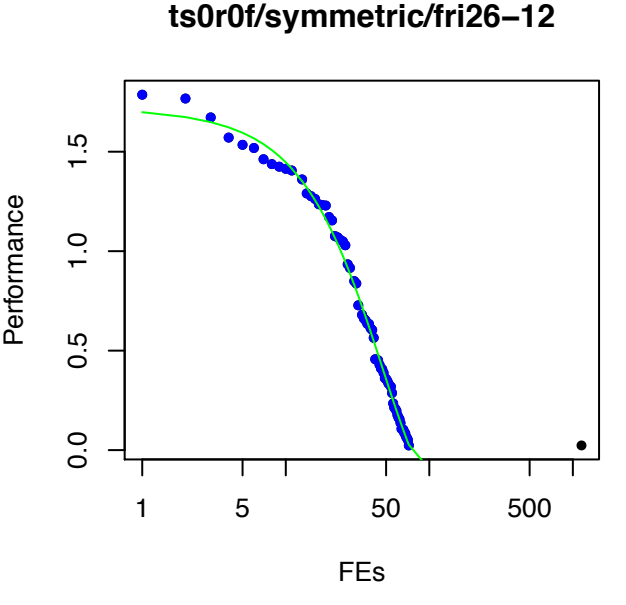
0.5
1.0
1.5
1
2
5
10
20
50
FEs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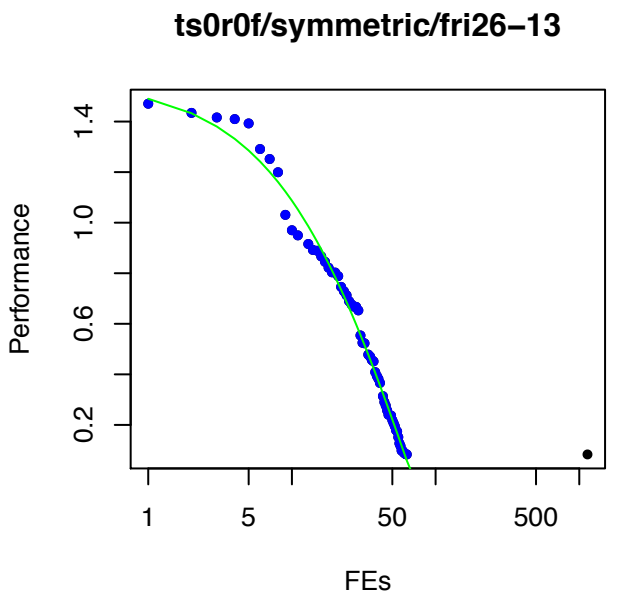
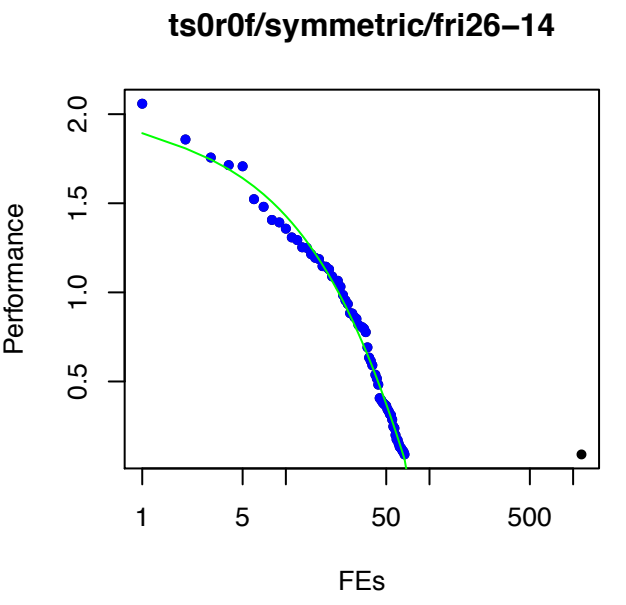
1.0
1.5
1
5
50
500
FEs


ts0r0f/symmetric/fri26−13
Performance
0.2
0.6
1.0
1.4
1
5
50
500
FEs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Performance
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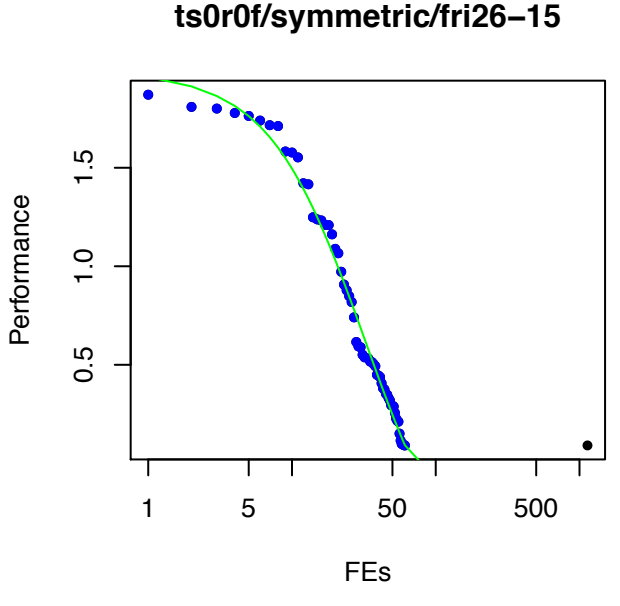
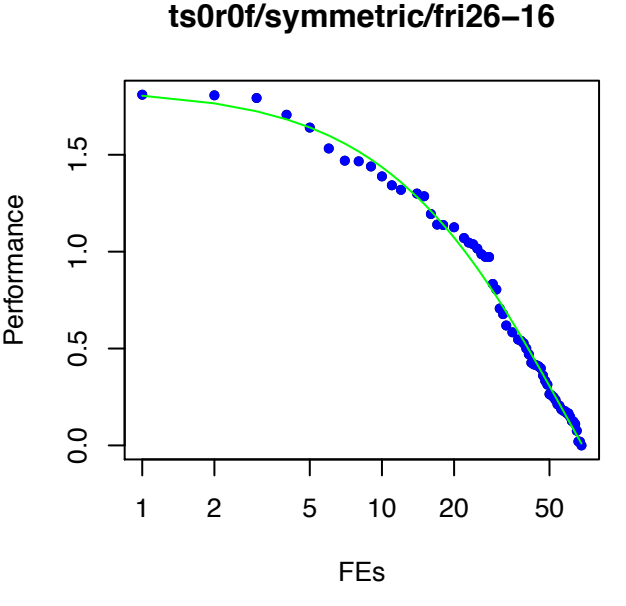
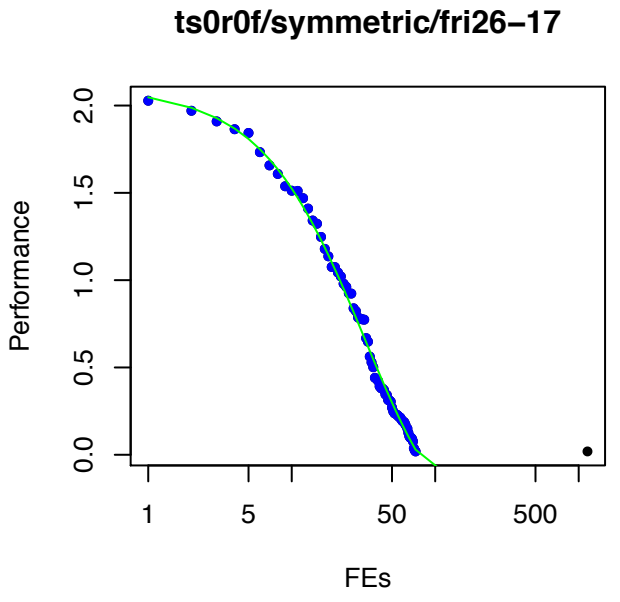
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/fri26−15
Performance
0.5
1.0
1.5
1
5
50
500
FEs


ts0r0f/symmetric/fri26−16
Performance
0.0
0.5
1.0
1.5
1
2
5
10
20
50
FEs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Performance
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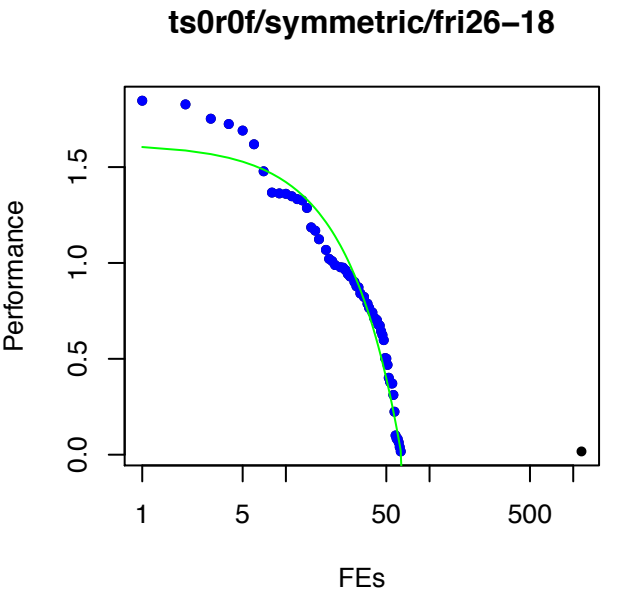
0.5
1.0
1.5
2.0
1
5
50
500
FEs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Performance
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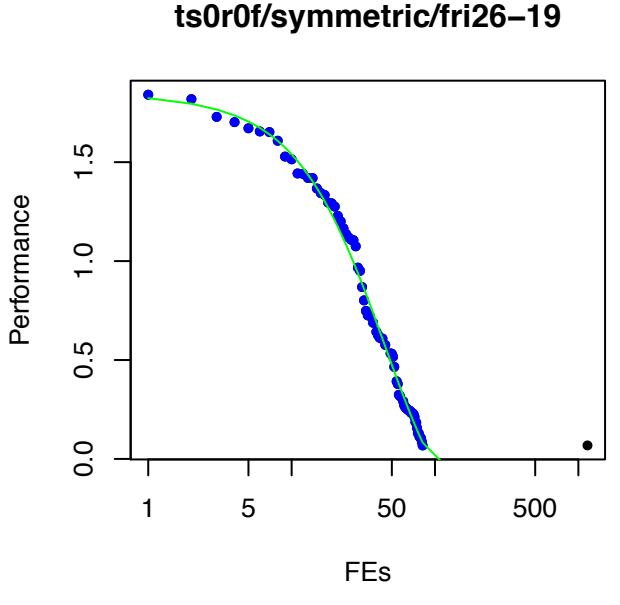
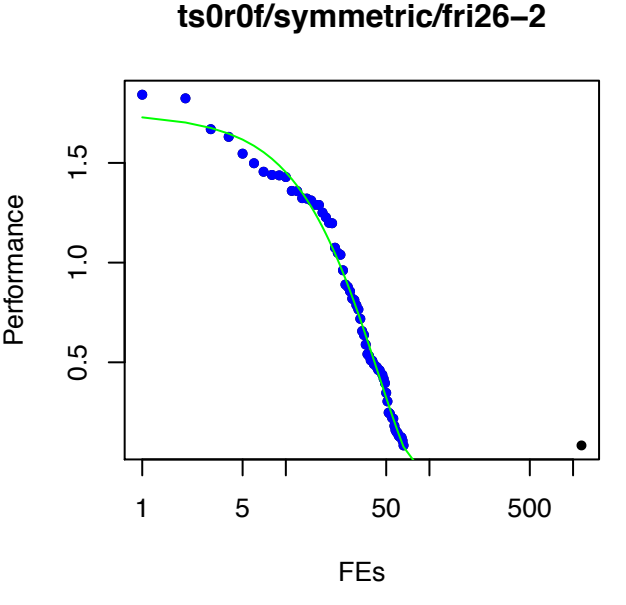
0.5
1.0
1.5
1
5
50
500
FEs


ts0r0f/symmetric/fri26−19
Performance
0.0
0.5
1.0
1.5
1
5
50
500
FEs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Performance
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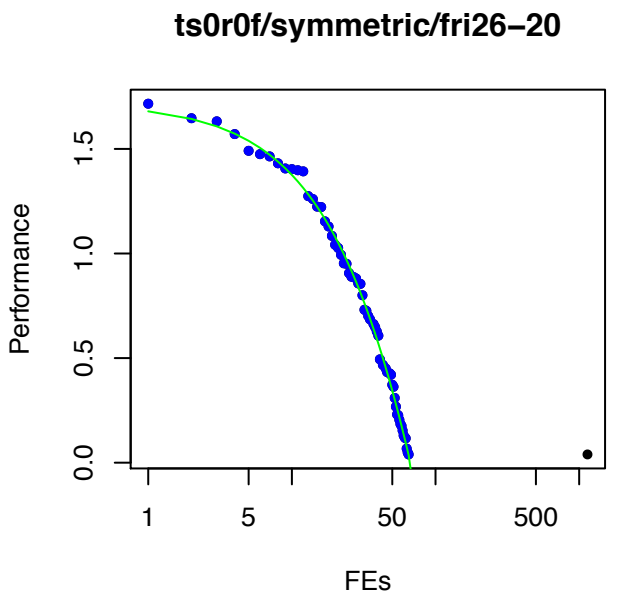
1.0
1.5
1
5
50
500
FEs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Performance
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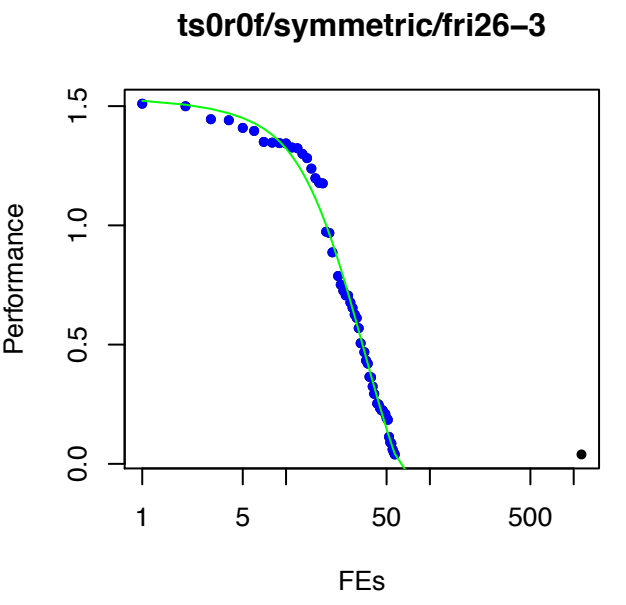
0.5
1.0
1.5
1
5
50
500
FEs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Performance
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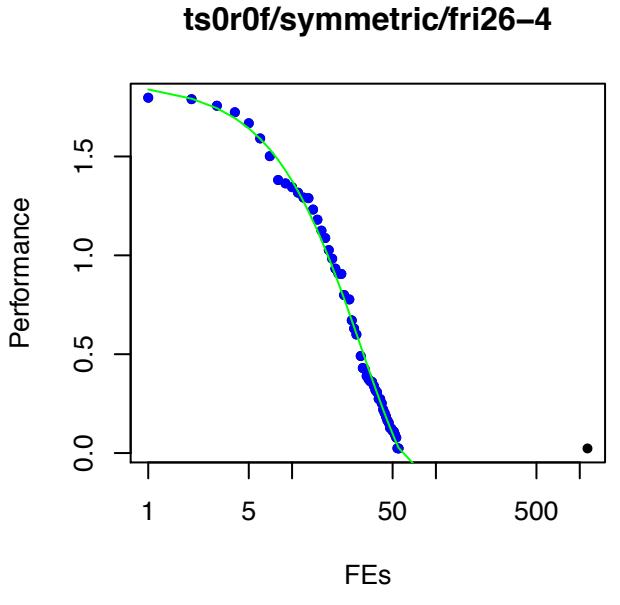
0.5
1.0
1.5
1
5
50
500
FEs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Performance
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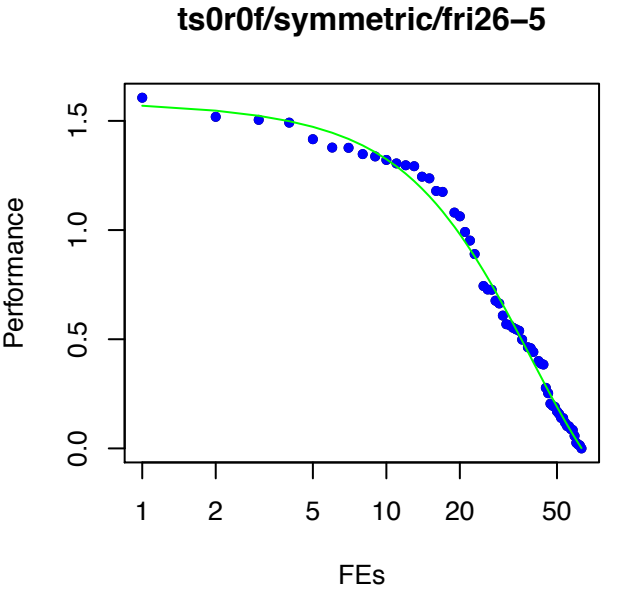
1
5
50
500
FEs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Performance
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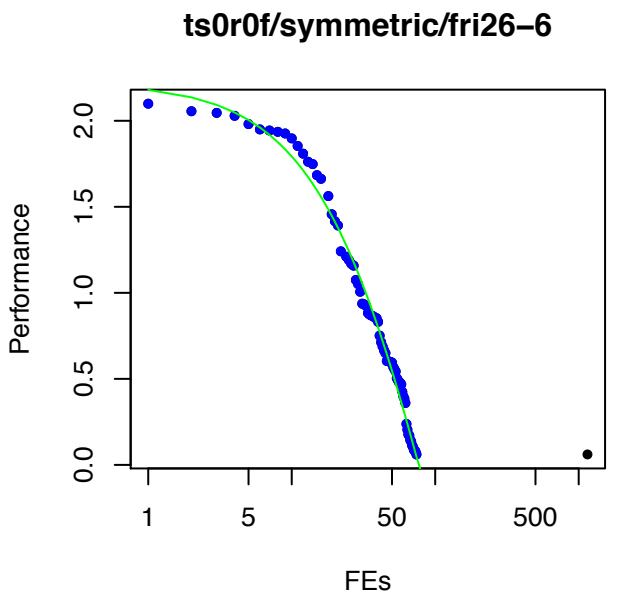
1.0
1.5
1
2
5
10
20
50
FEs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Performance
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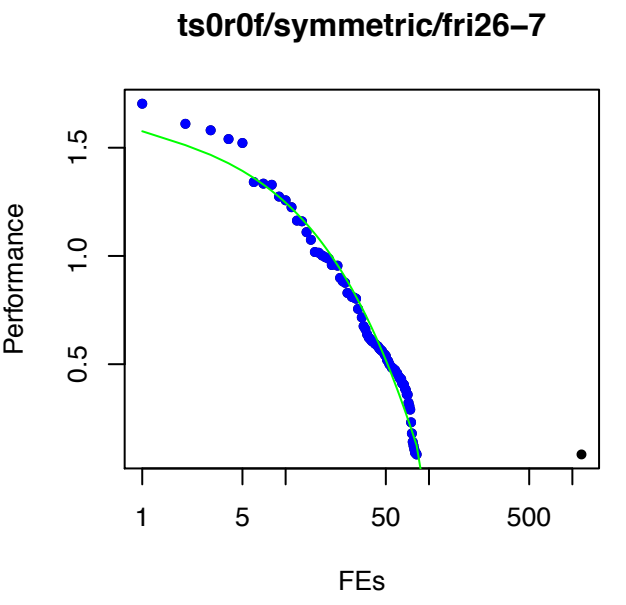
1.0
1.5
2.0
1
5
50
500
FEs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Performance
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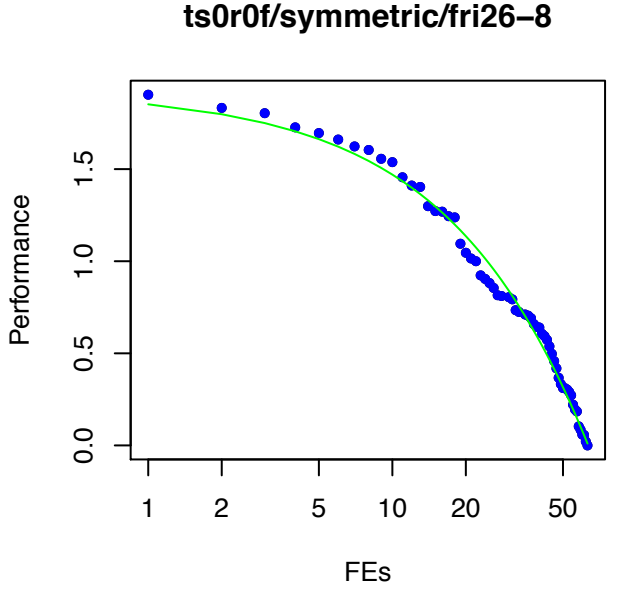
1
5
50
500
FEs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Performance
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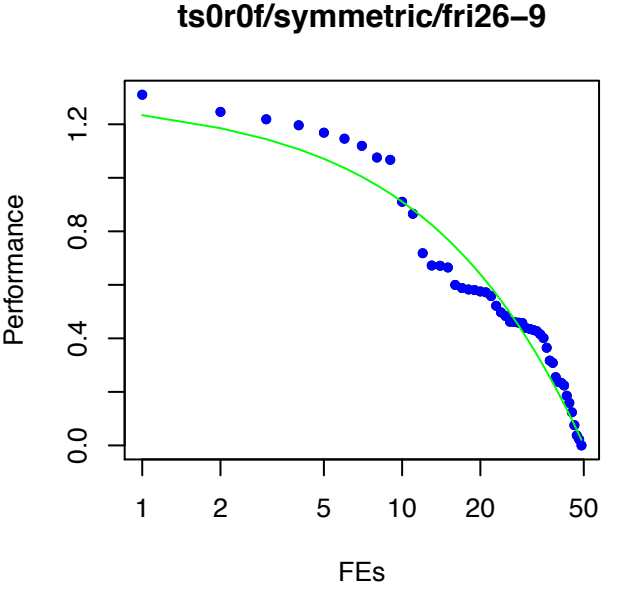
1.0
1.5
1
2
5
10
20
50
FEs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Performance
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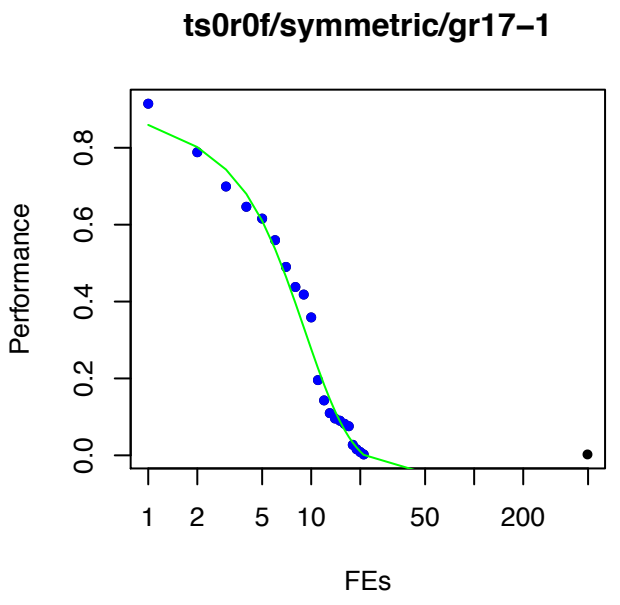
1
2
5
10
20
50
FEs


ts0r0f/symmetric/gr17−1
Performance
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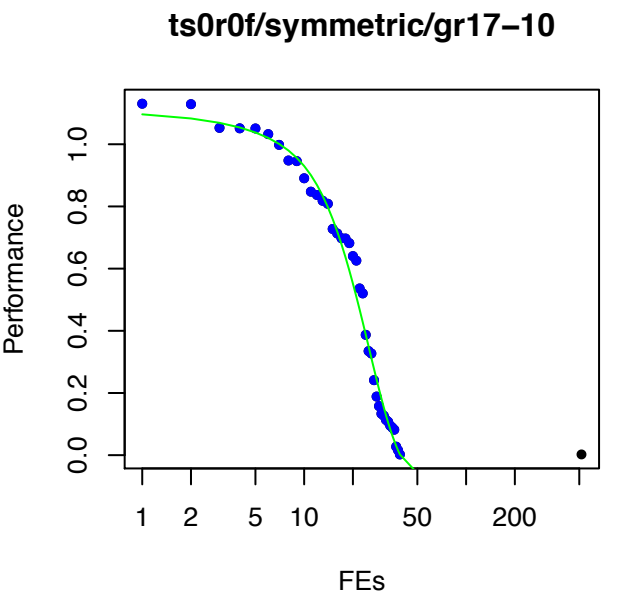
0.6
0.8
1
2
5
10
50
200
FEs


ts0r0f/symmetric/gr17−10
Performance
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0.8
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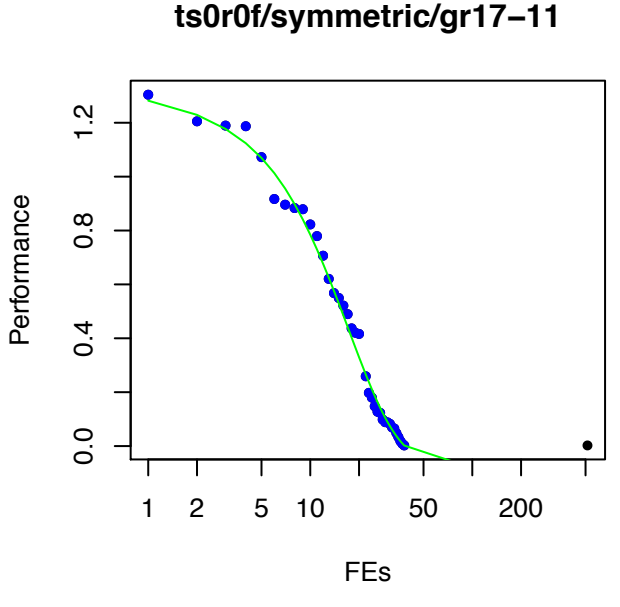
2
5
10
50
200
FEs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Performance
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0.8
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1
2
5
10
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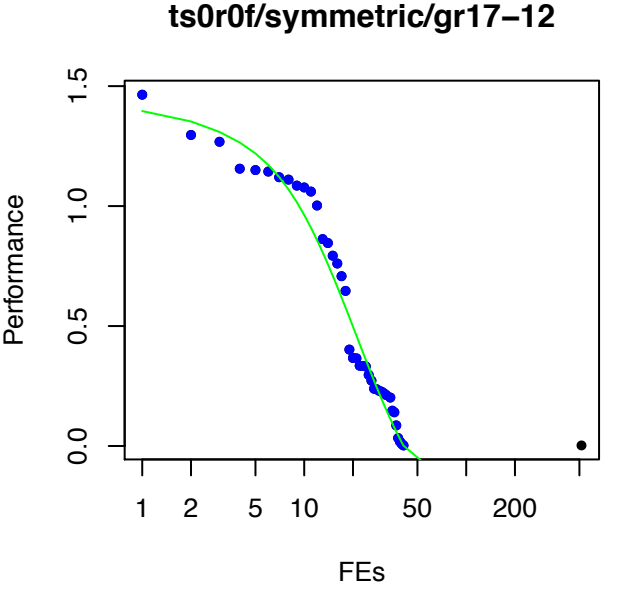
200
FEs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Performance
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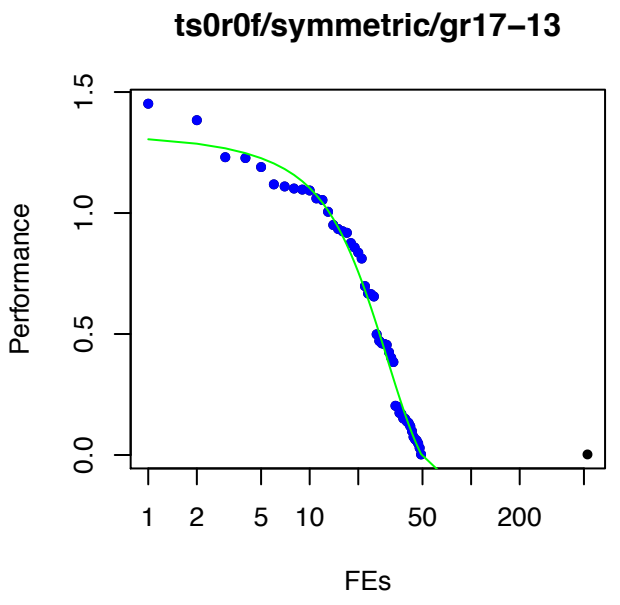
FEs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Performance
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1
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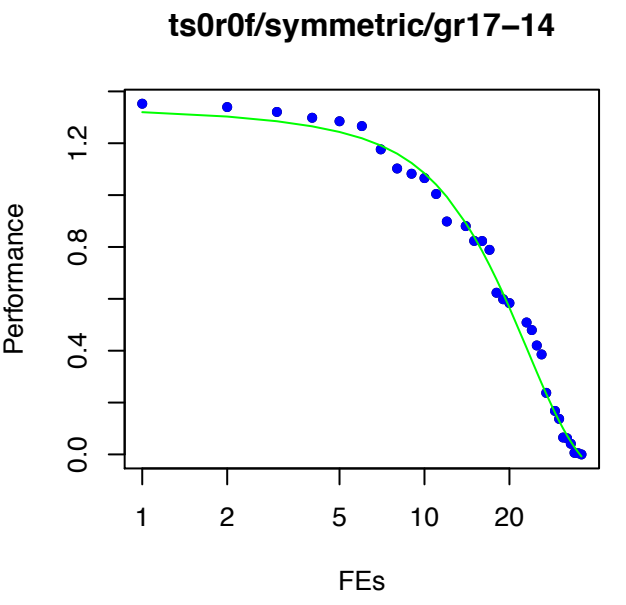
FEs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Performance
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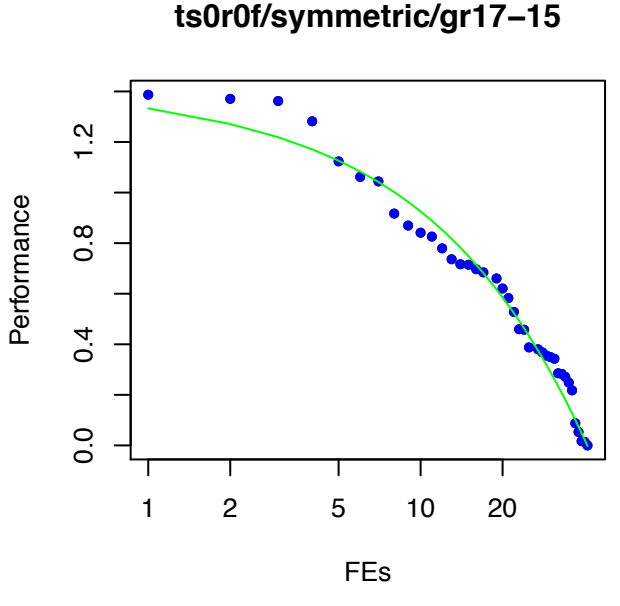
20
FEs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Performance
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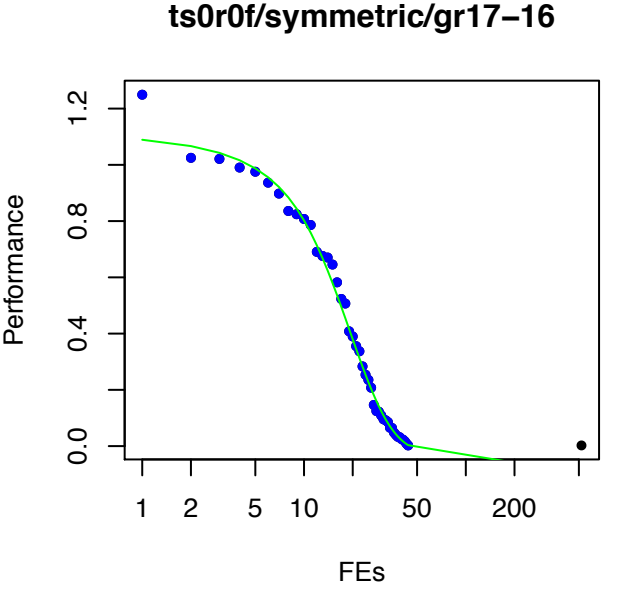
FEs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Performance
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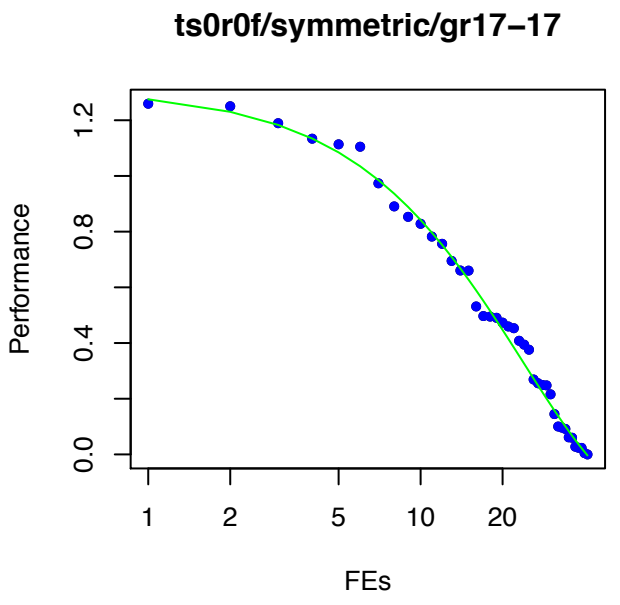
200
FEs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Performance
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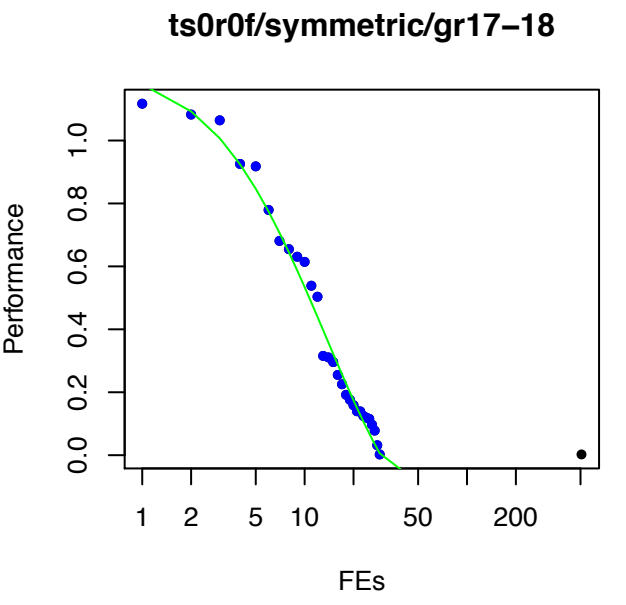
2
5
10
20
FEs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Performance
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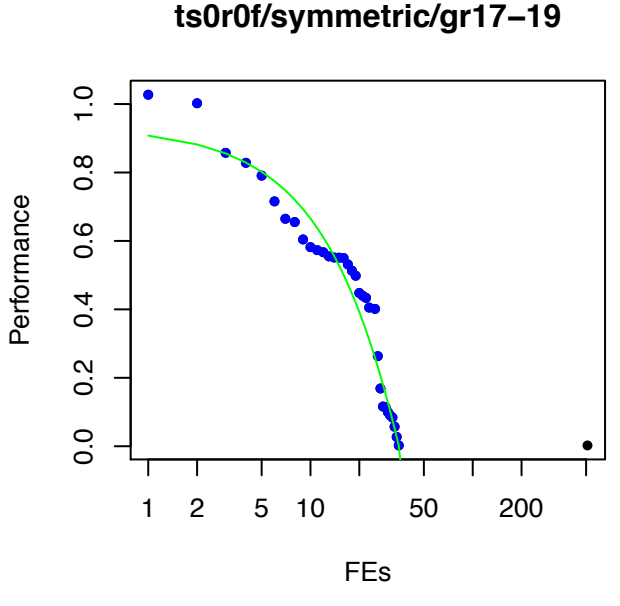
10
50
200
FEs


ts0r0f/symmetric/gr17−19
Performance
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0.8
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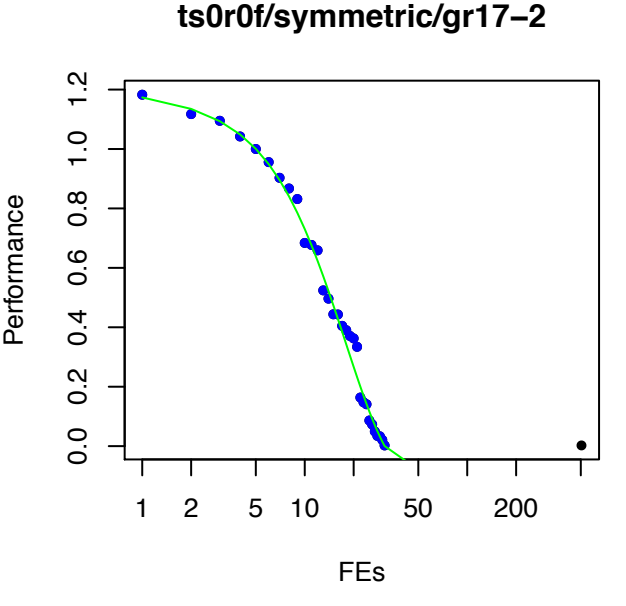
1
2
5
10
50
200
FEs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Performance
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0.6
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1
2
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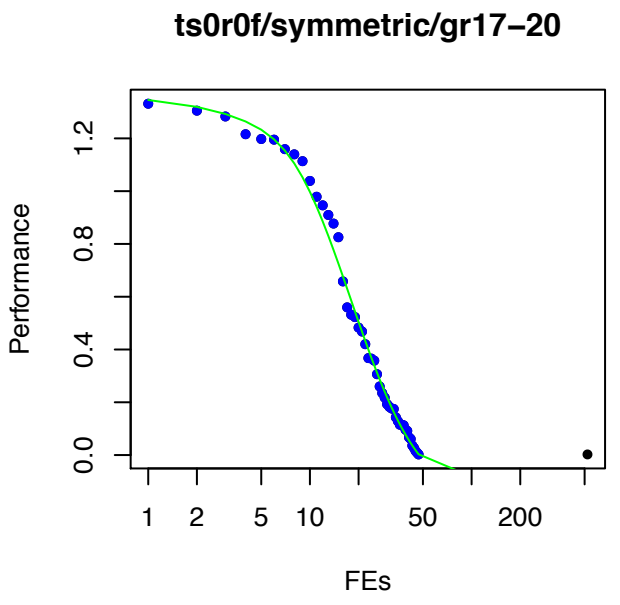
10
50
200
FEs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Performance
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0.8
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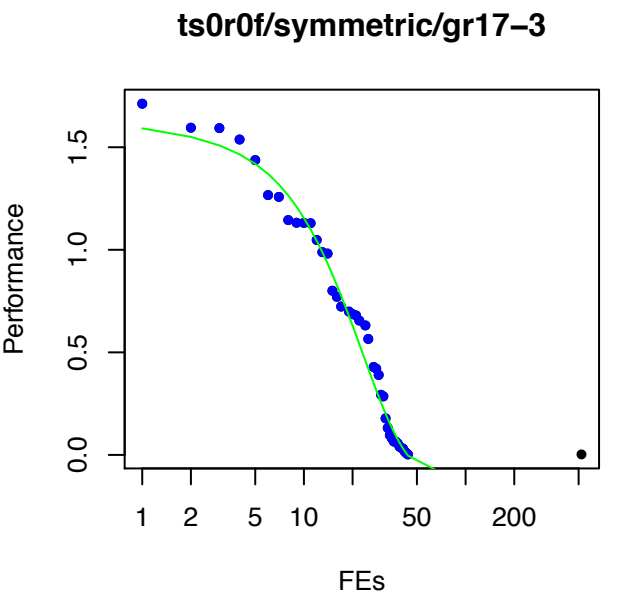
1
2
5
10
50
200
FEs


ts0r0f/symmetric/gr17−3
Performance
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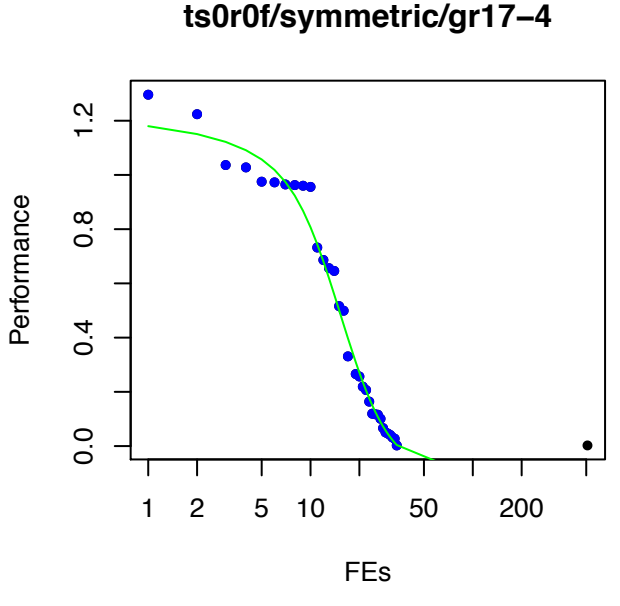
1.0
1.5
1
2
5
10
50
200
FEs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Performance
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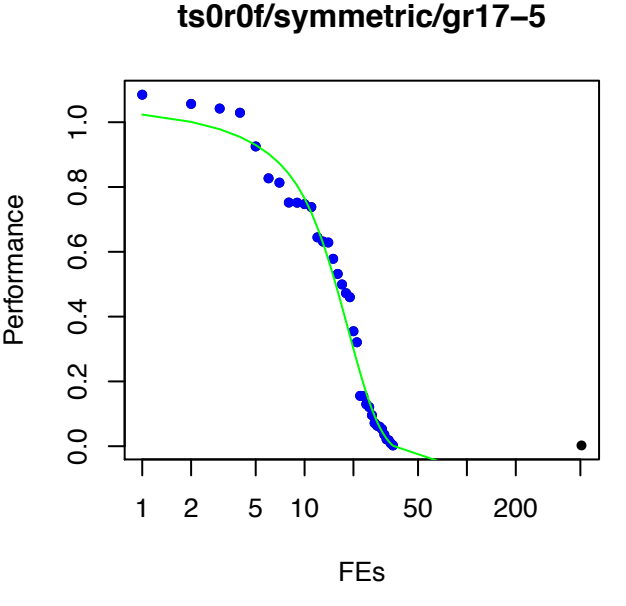
0.8
1.2
1
2
5
10
50
200
FEs


ts0r0f/symmetric/gr17−5
Performance
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0.4
0.6
0.8
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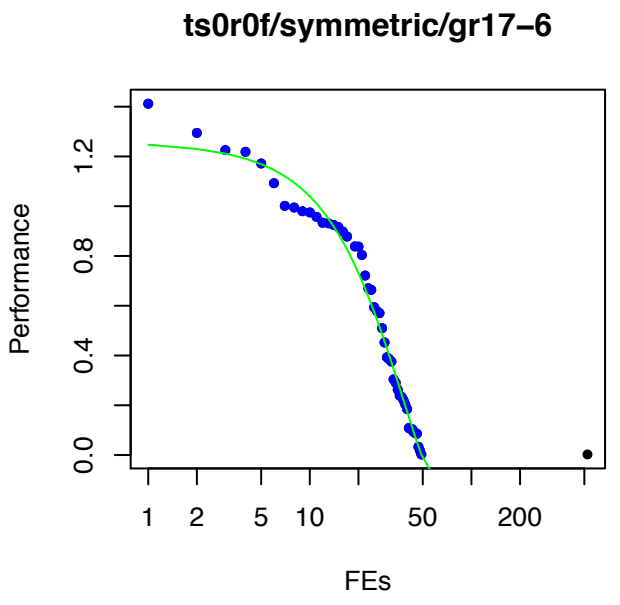
1
2
5
10
50
200
FEs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Performance
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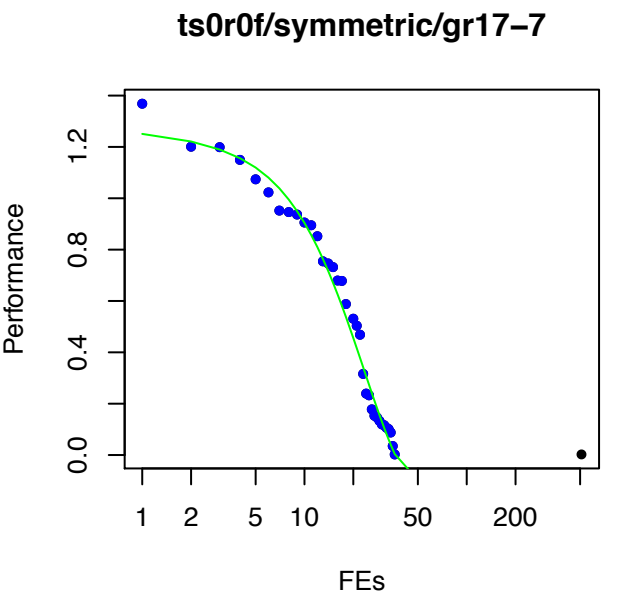
0.8
1.2
1
2
5
10
50
200
FEs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Performance
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0.8
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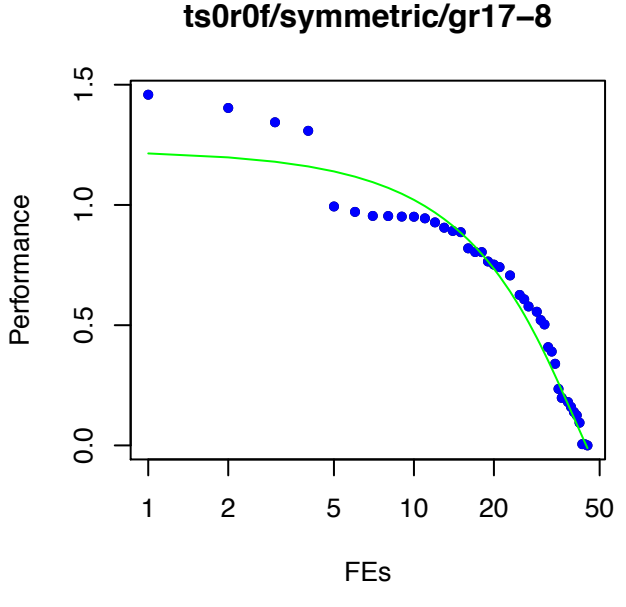
1
2
5
10
50
200
FEs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Performance
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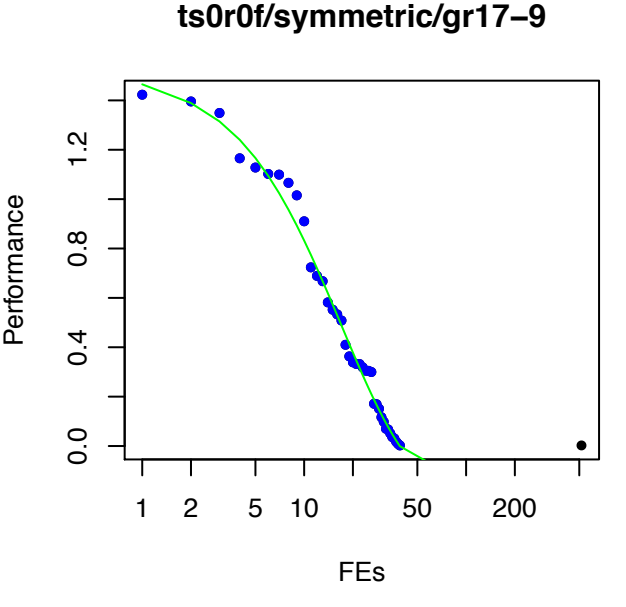
1.0
1.5
1
2
5
10
20
50
FEs


ts0r0f/symmetric/gr17−9
Performance
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0.4
0.8
1.2
1
2
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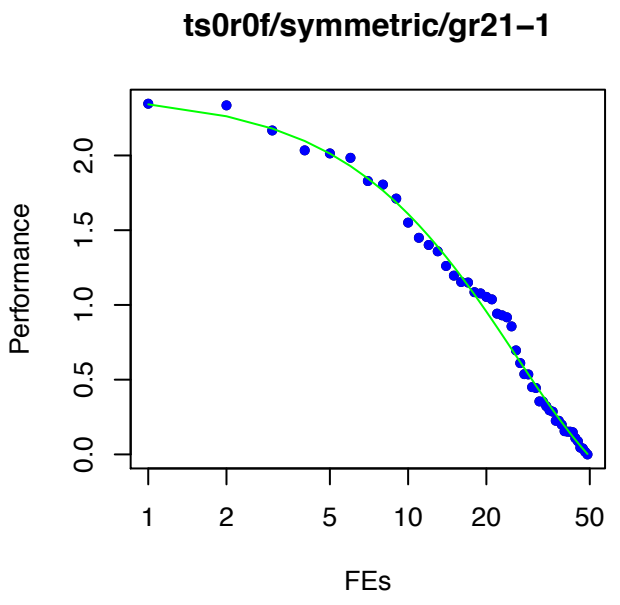
200
FEs


ts0r0f/symmetric/gr21−1
Performance
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1.5
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1
2
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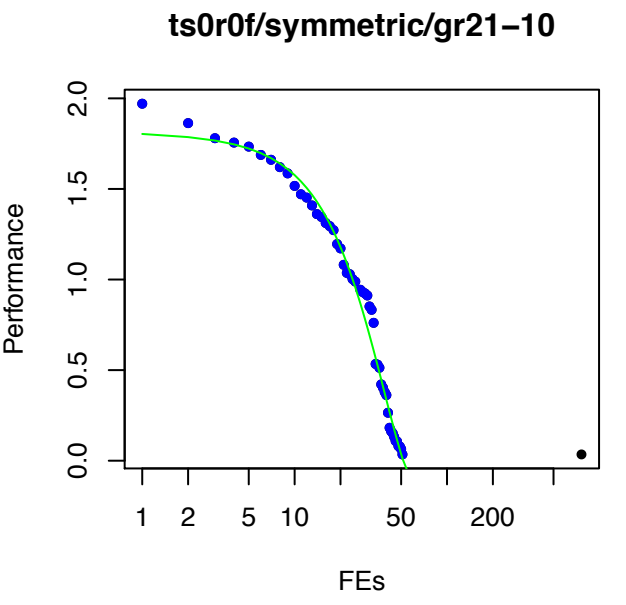
10
20
50
FEs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2.0
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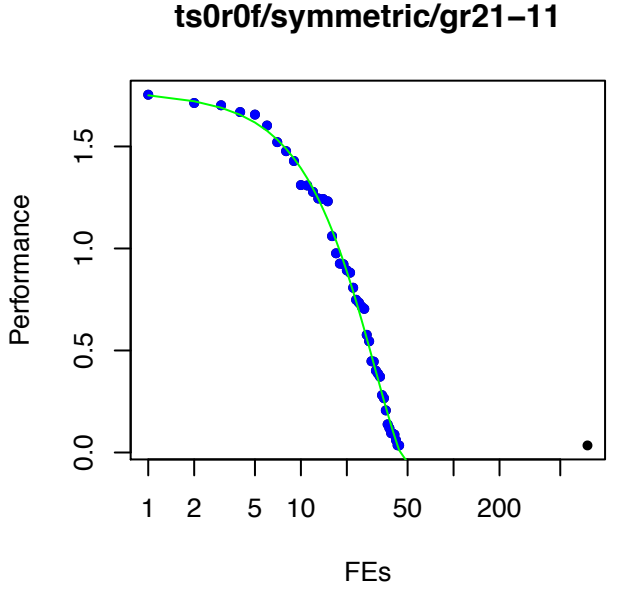
FEs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Performance
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1
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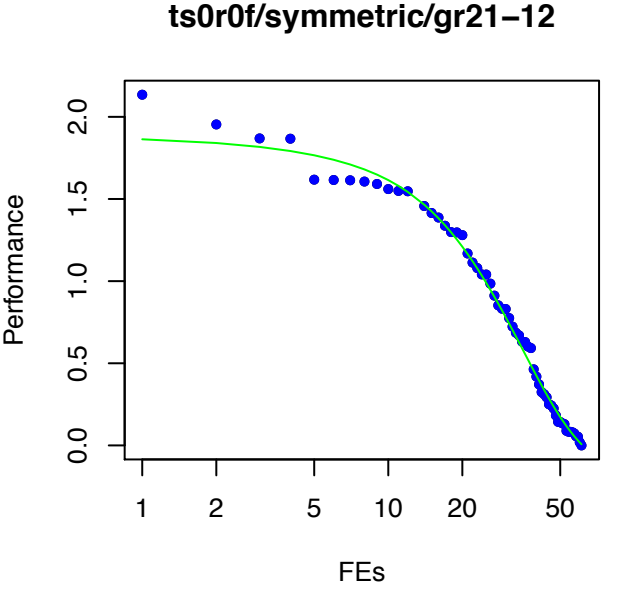
200
FEs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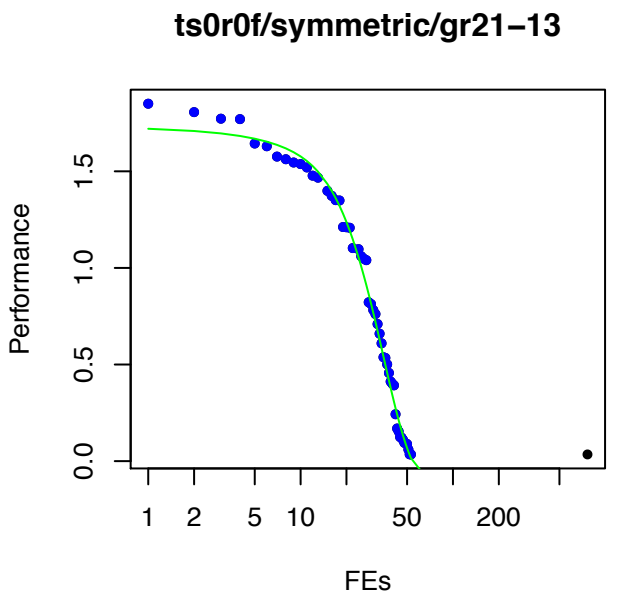
FEs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1
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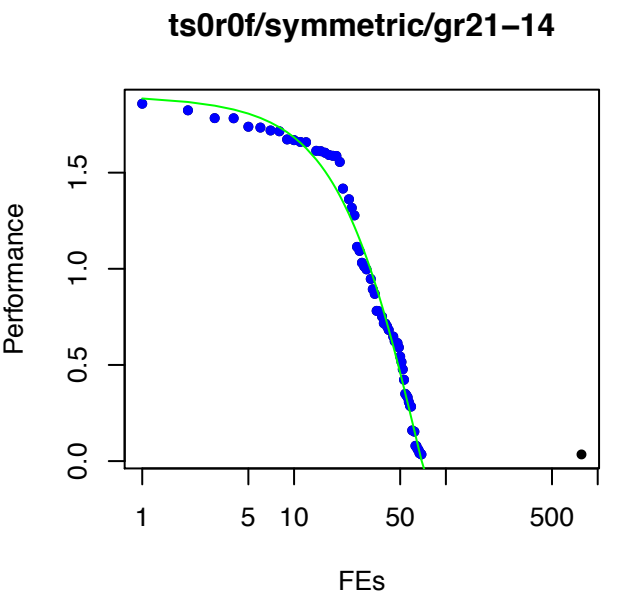
200
FEs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Performance
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1
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10
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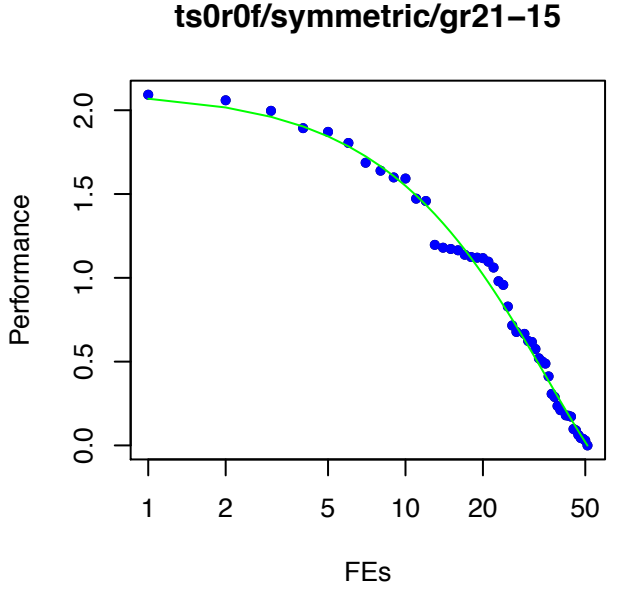
500
FEs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Performance
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1
2
5
10
20
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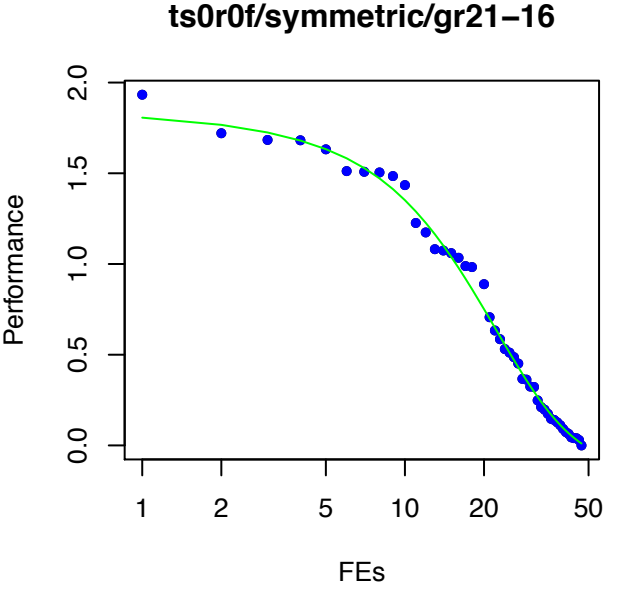
FEs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Performance
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1.5
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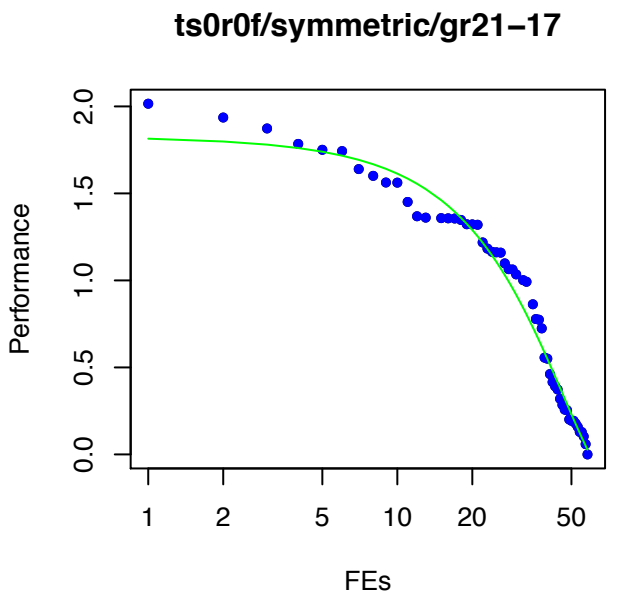
1
2
5
10
20
50
FEs


ts0r0f/symmetric/gr21−17
Performance
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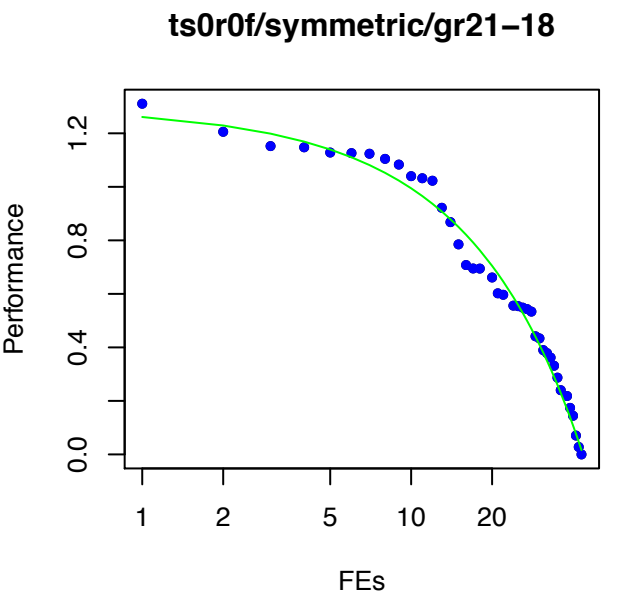
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts0r0f/symmetric/gr21−18
Performance
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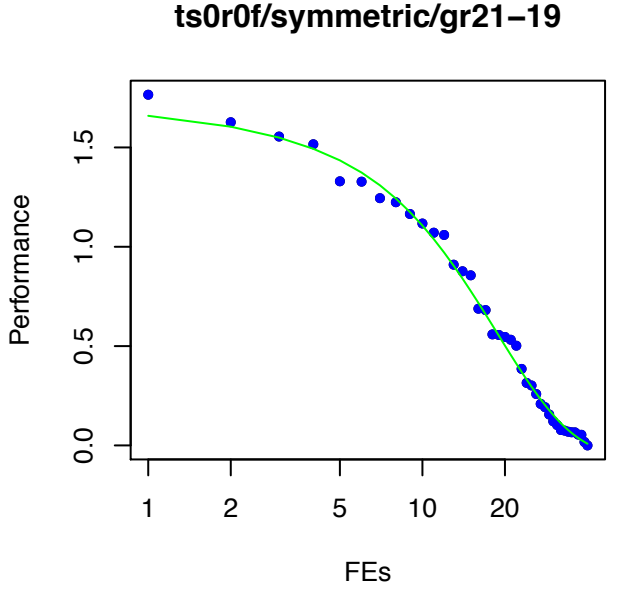
1.2
1
2
5
10
20
FEs


ts0r0f/symmetric/gr21−19
Performance
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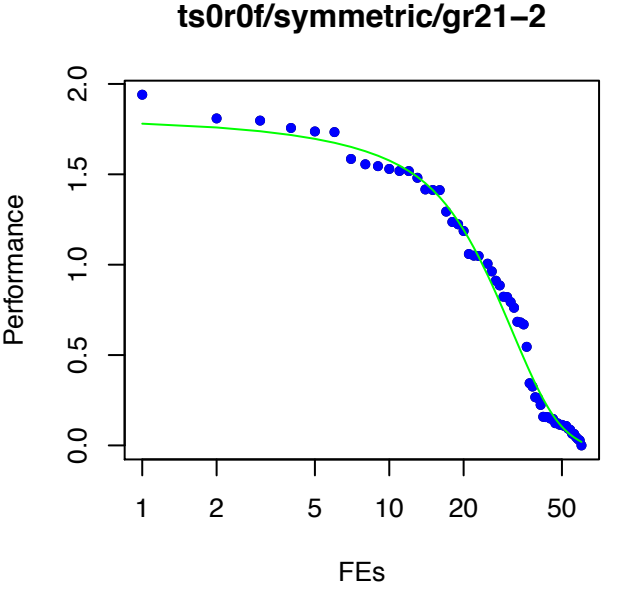
1.0
1.5
1
2
5
10
20
FEs


ts0r0f/symmetric/gr21−2
Performance
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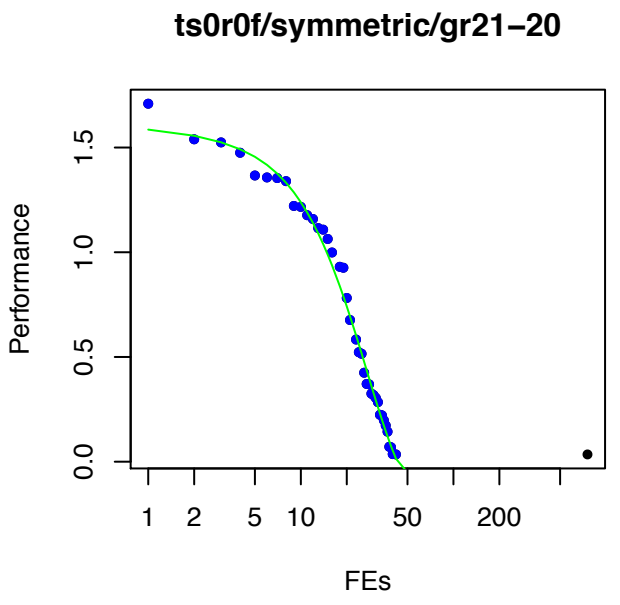
1.0
1.5
2.0
1
2
5
10
20
50
FEs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Performance
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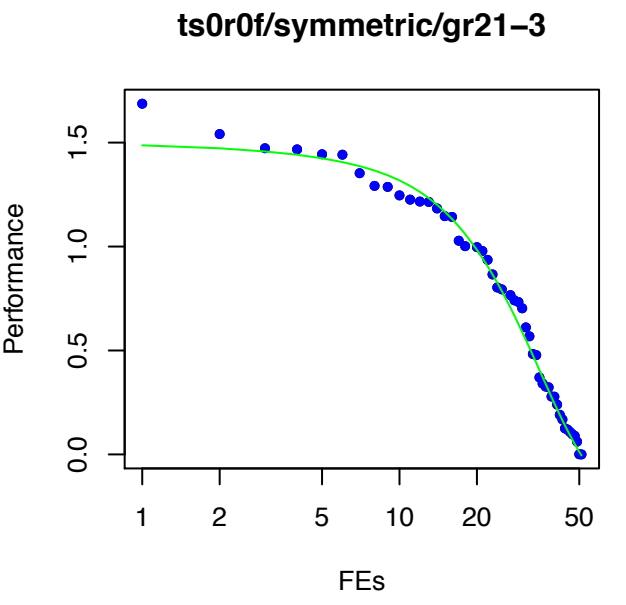
0.5
1.0
1.5
1
2
5
10
50
200
FEs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Performance
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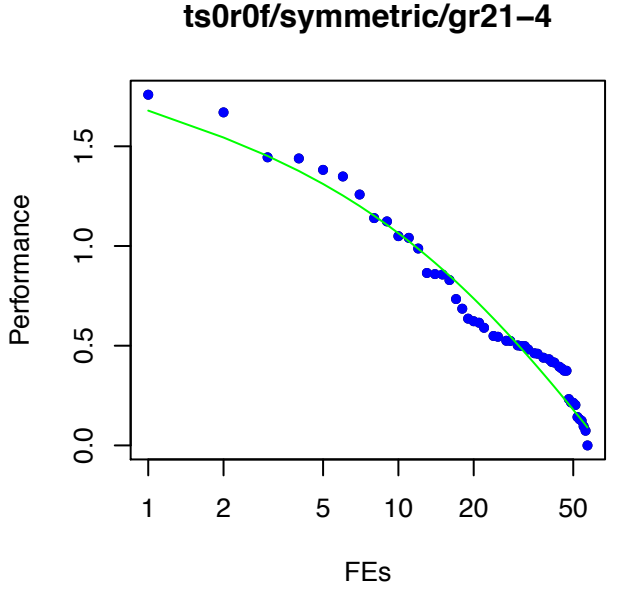
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts0r0f/symmetric/gr21−4
Performance
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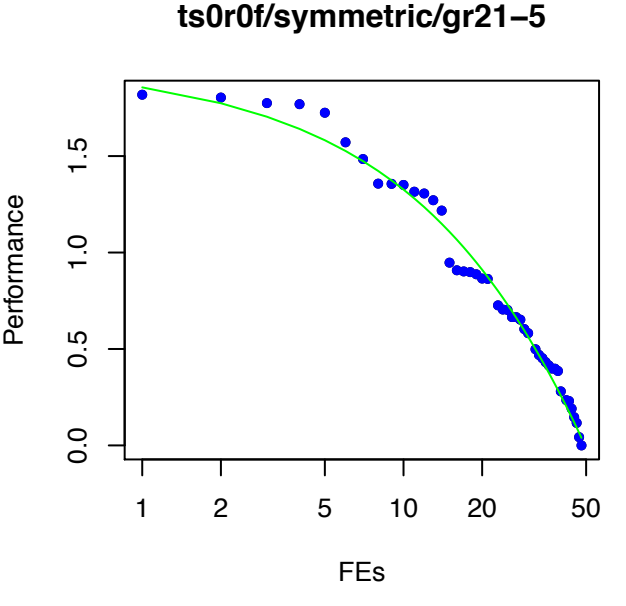
1.0
1.5
1
2
5
10
20
50
FEs


ts0r0f/symmetric/gr21−5
Performance
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1.0
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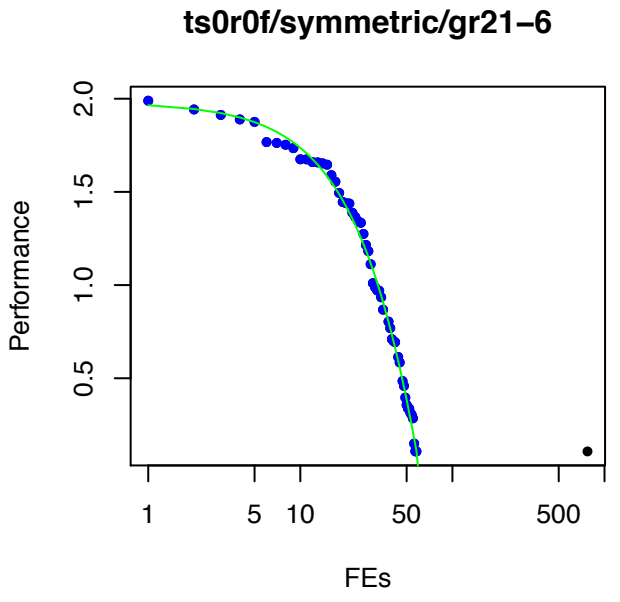
1
2
5
10
20
50
FEs


ts0r0f/symmetric/gr21−6
Performance
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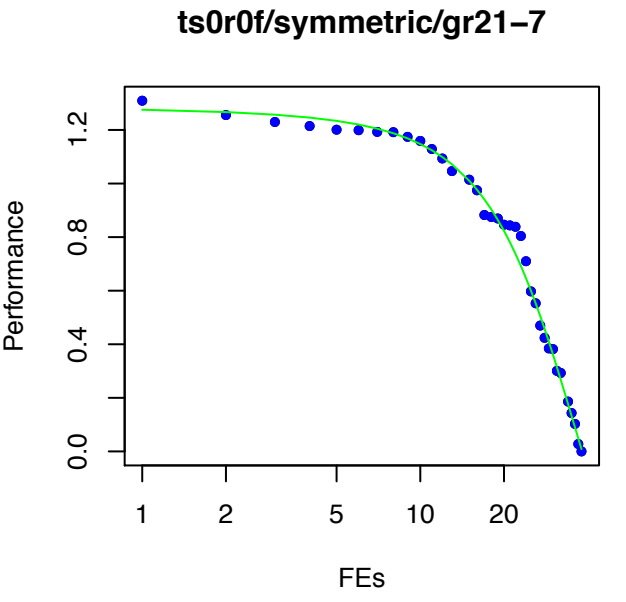
1.5
2.0
1
5
10
50
500
FEs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Performance
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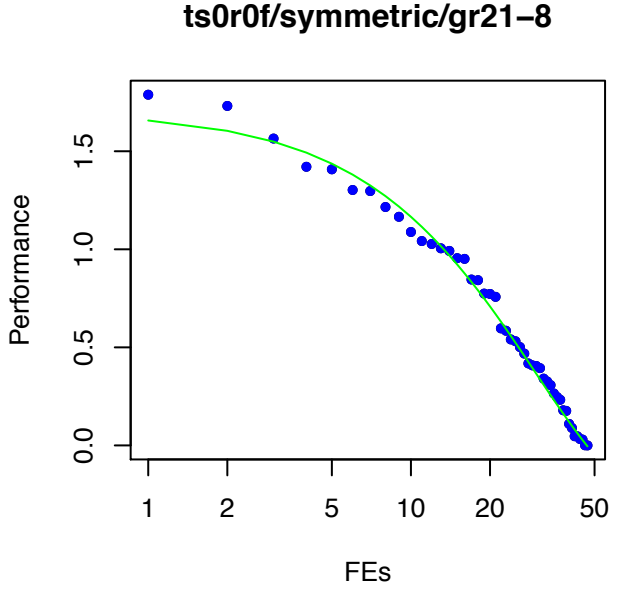
0.8
1.2
1
2
5
10
20
FEs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Performance
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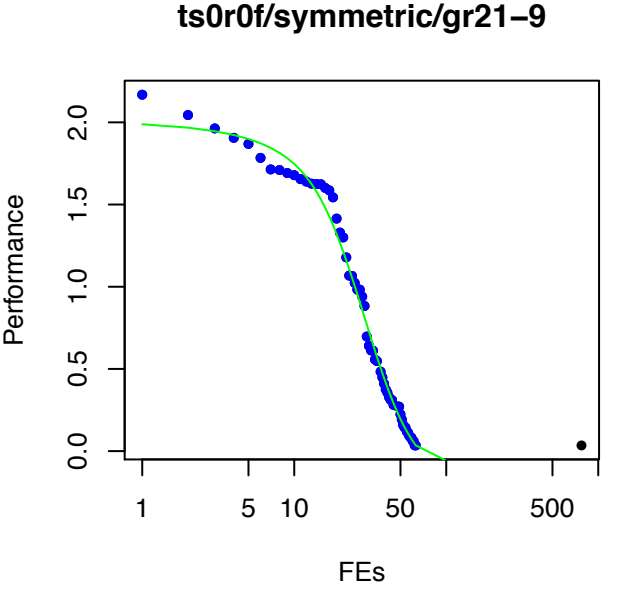
1.0
1.5
1
2
5
10
20
50
FEs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Performance
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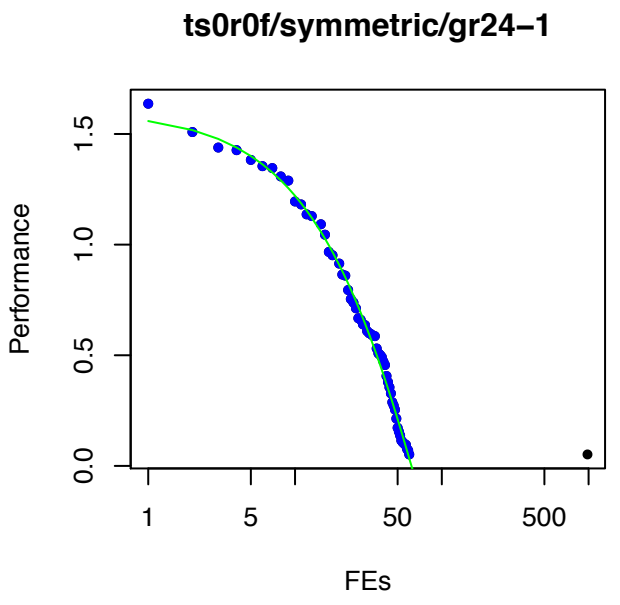
1.0
1.5
2.0
1
5
10
50
500
FEs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Performance
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1.0
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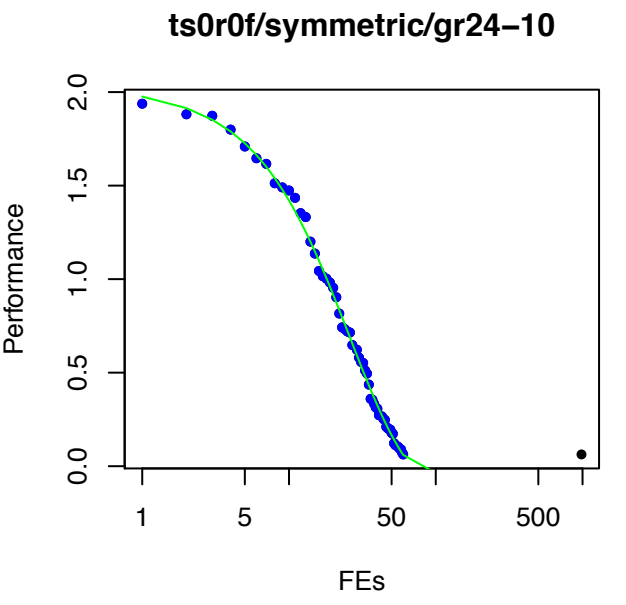
1
5
50
500
FEs


ts0r0f/symmetric/gr24−10
Performance
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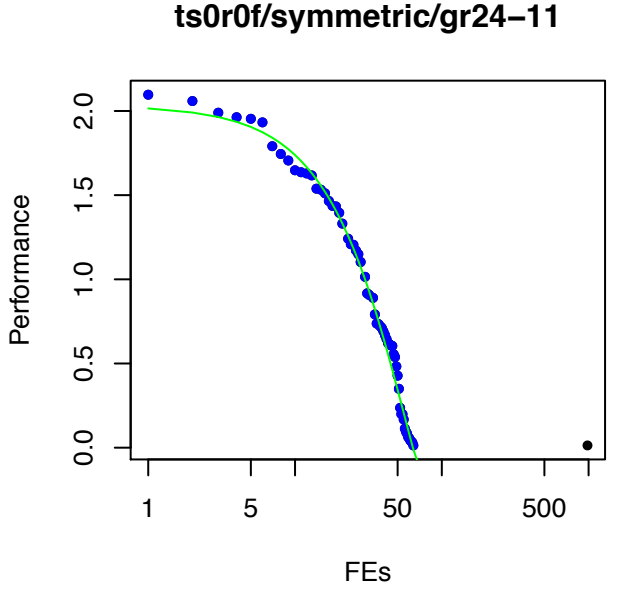
1.0
1.5
2.0
1
5
50
500
FEs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Performance
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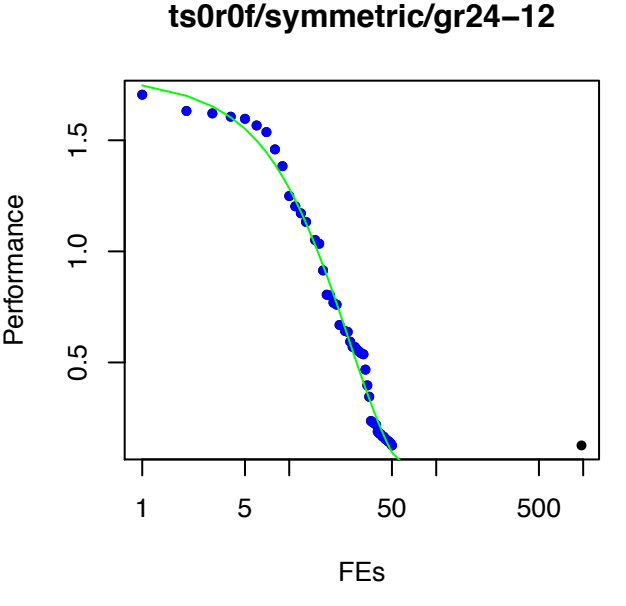
1.5
2.0
1
5
50
500
FEs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Performance
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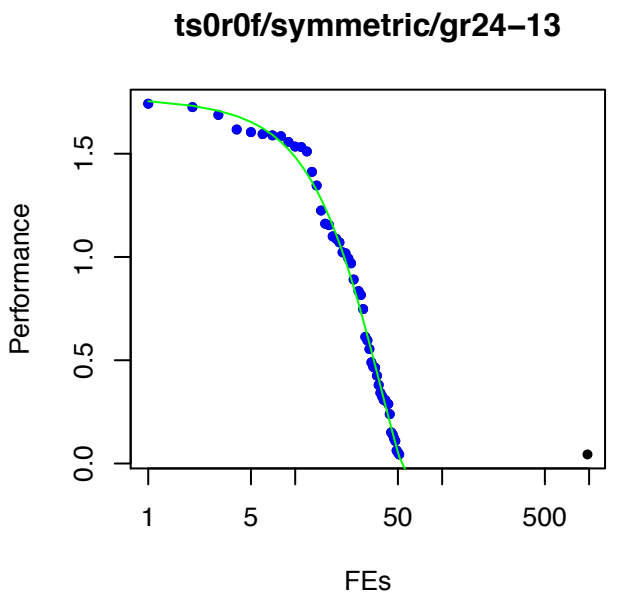
FEs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Performance
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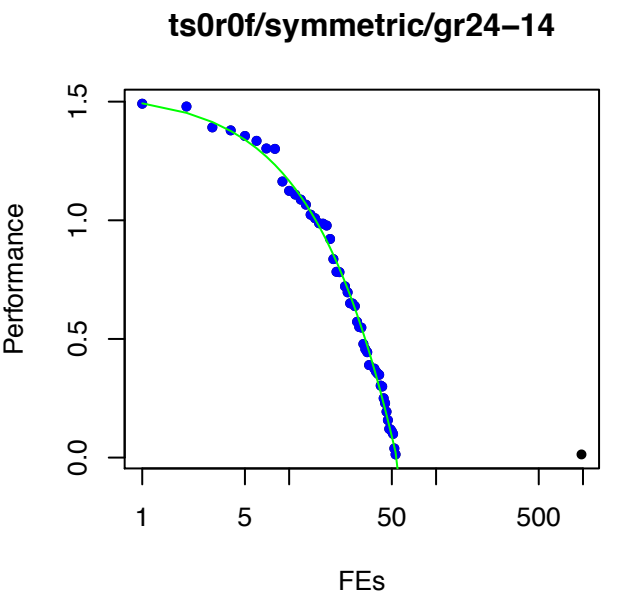
FEs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Performance
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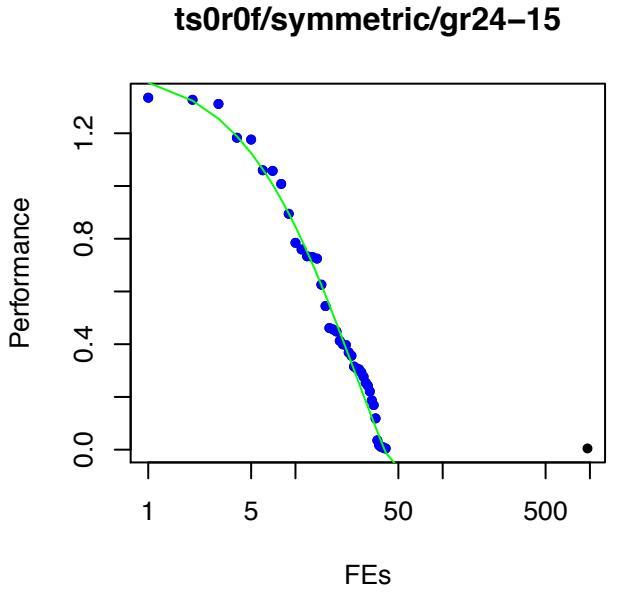
500
FEs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Performance
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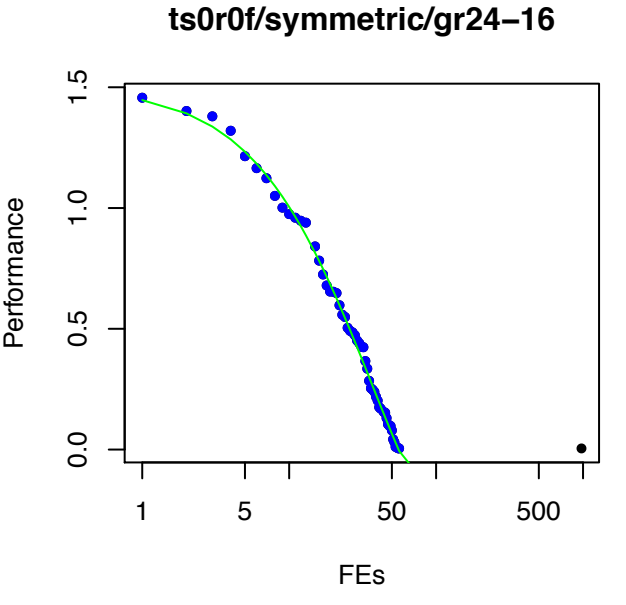
500
FEs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Performance
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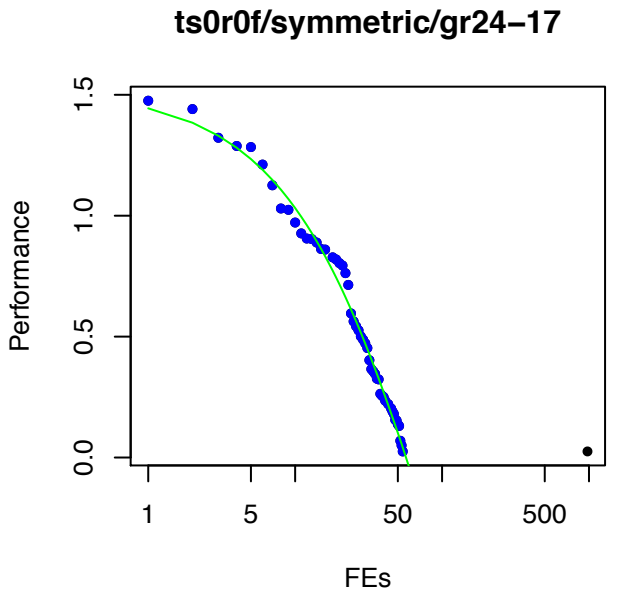
FEs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Performance
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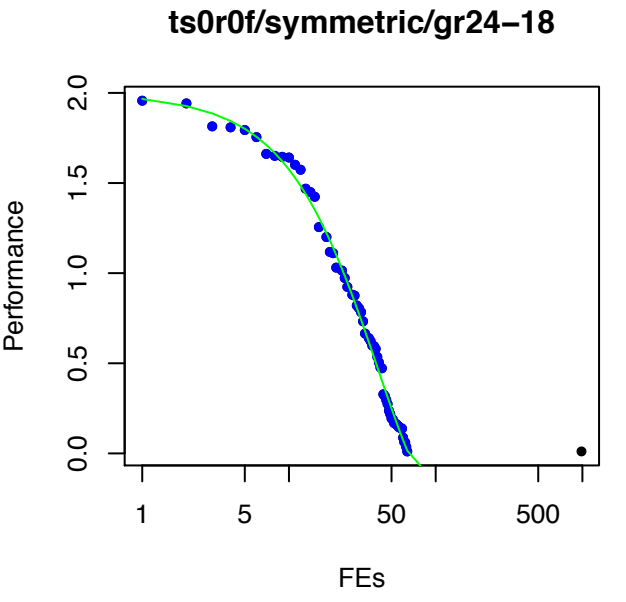
500
FEs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Performance
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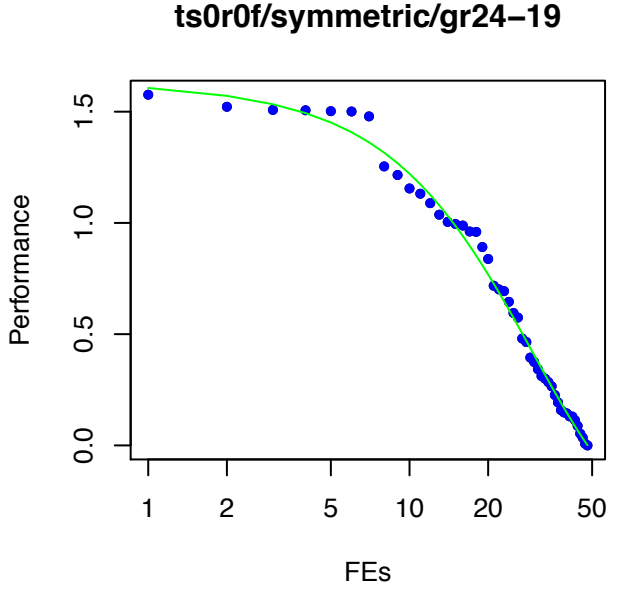
5
50
500
FEs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Performance
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1.0
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1
2
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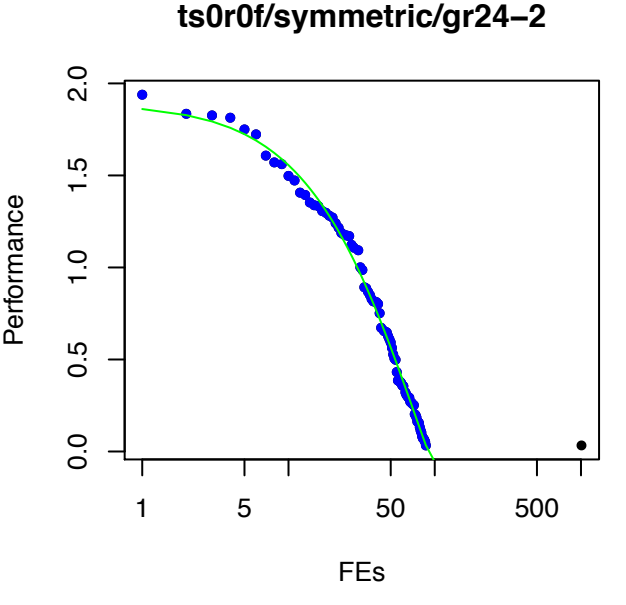
10
20
50
FEs


ts0r0f/symmetric/gr24−2
Performance
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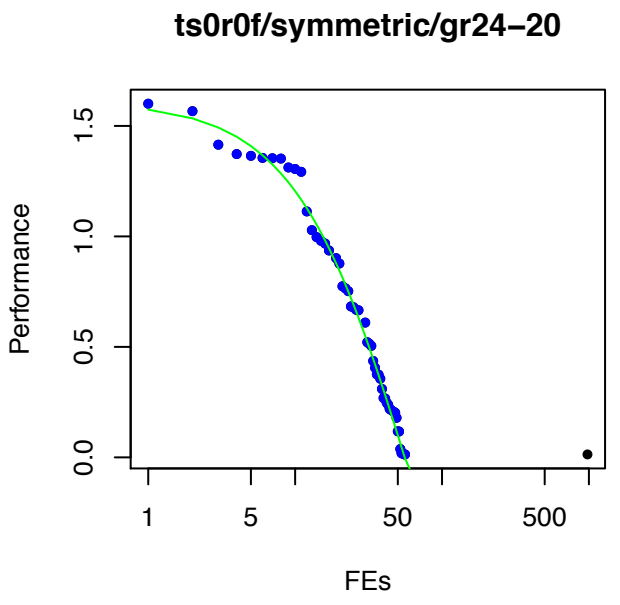
1.5
2.0
1
5
50
500
FEs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Performance
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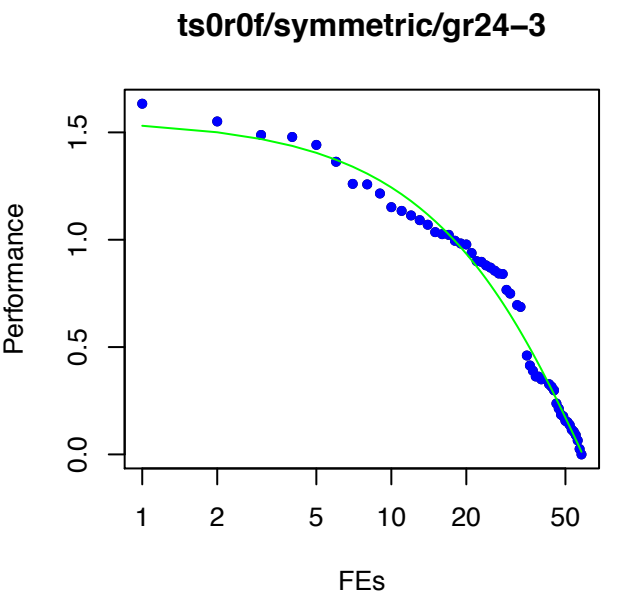
500
FEs


ts0r0f/symmetric/gr24−3
Performance
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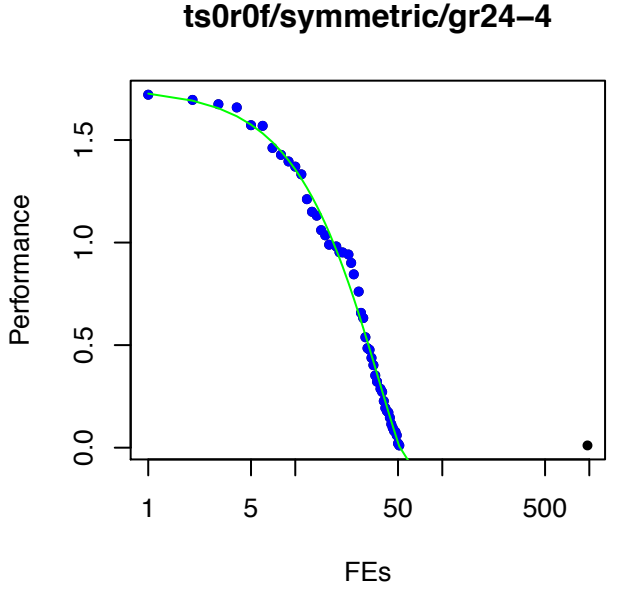
1.0
1.5
1
2
5
10
20
50
FEs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Performance
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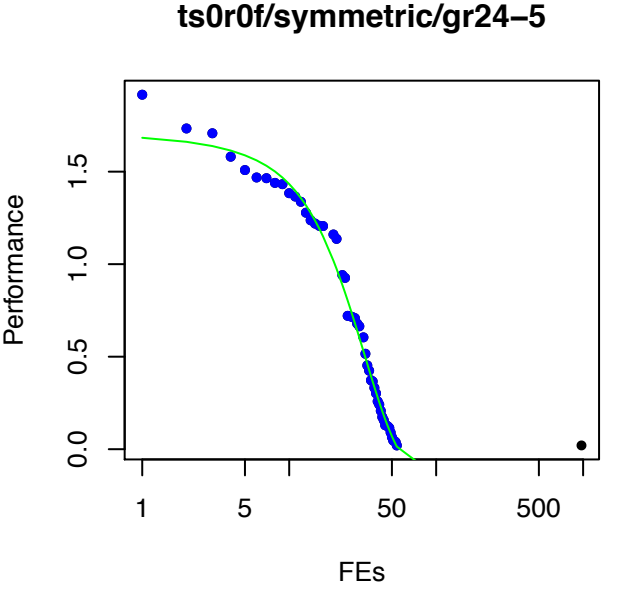
1.5
1
5
50
500
FEs


ts0r0f/symmetric/gr24−5
Performance
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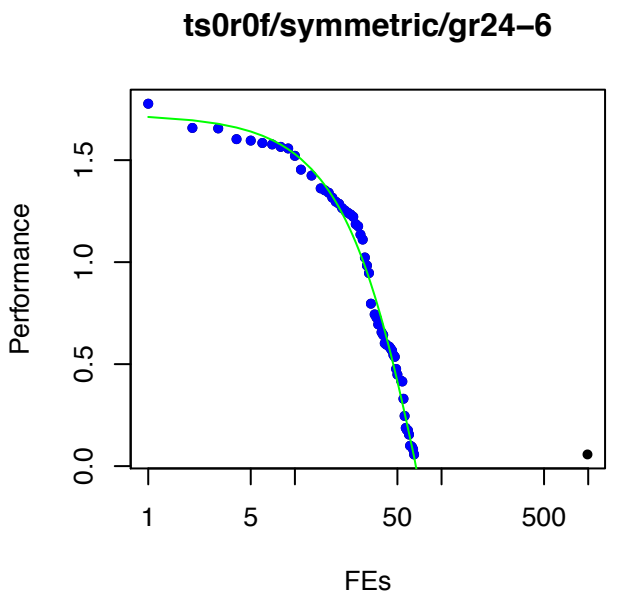
0.5
1.0
1.5
1
5
50
500
FEs


ts0r0f/symmetric/gr24−6
Performance
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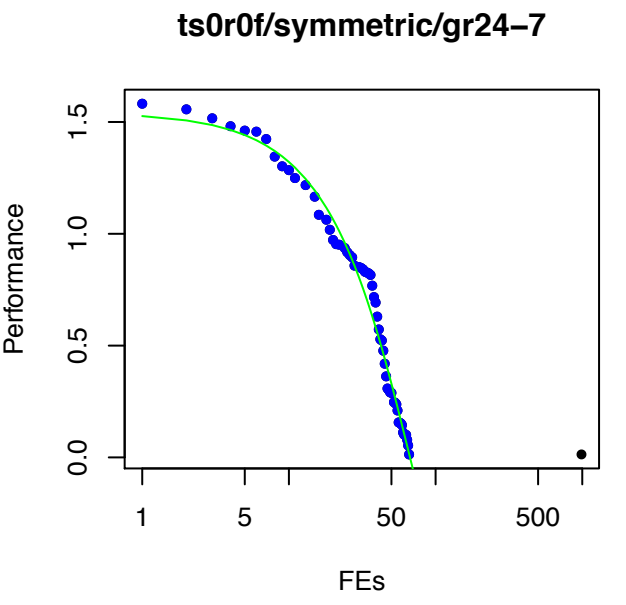
0.5
1.0
1.5
1
5
50
500
FEs


ts0r0f/symmetric/gr24−7
Performance
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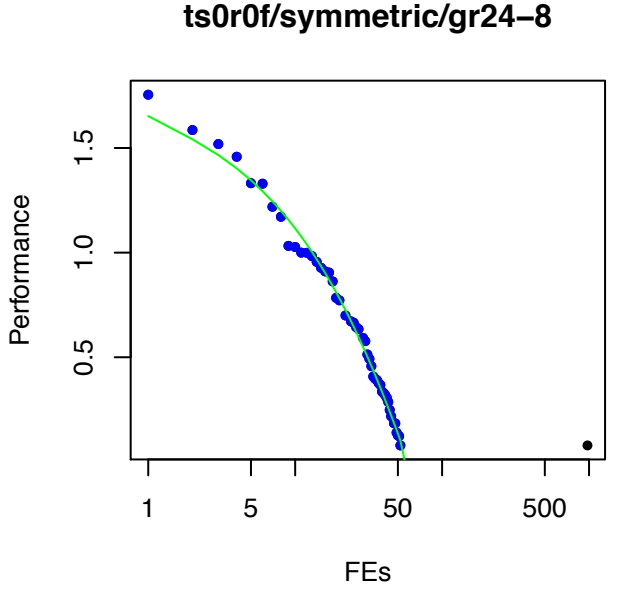
0.5
1.0
1.5
1
5
50
500
FEs


ts0r0f/symmetric/gr24−8
Performance
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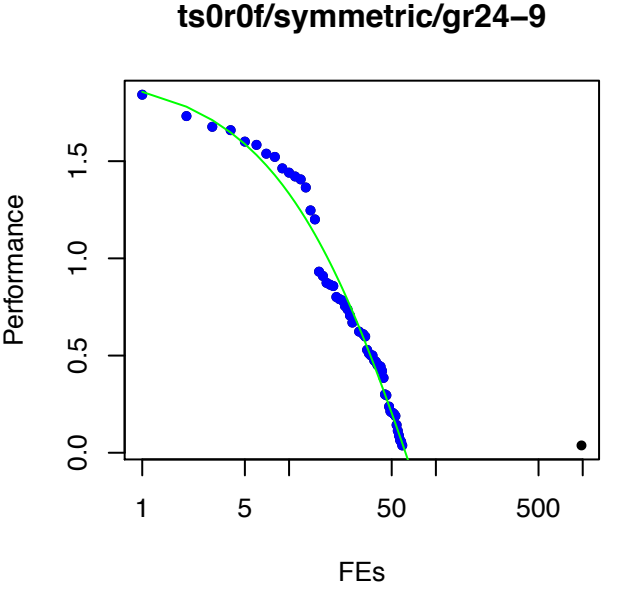
1.0
1.5
1
5
50
500
FEs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Performance
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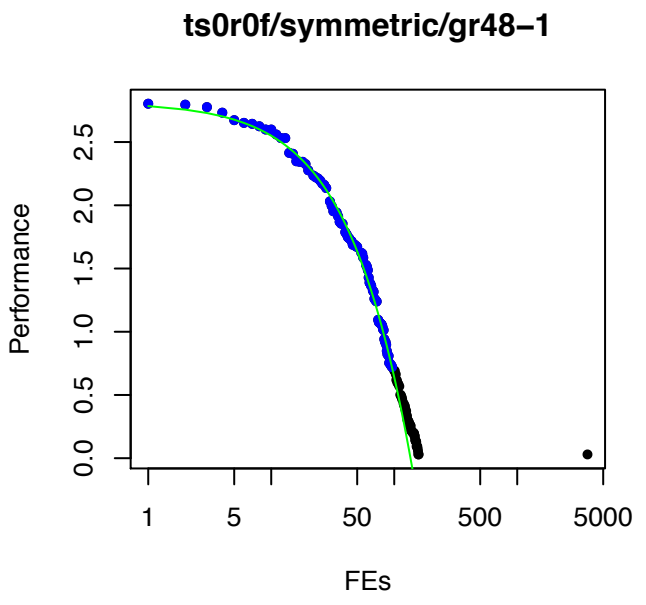
500
FEs


ts0r0f/symmetric/gr48−1
Performance
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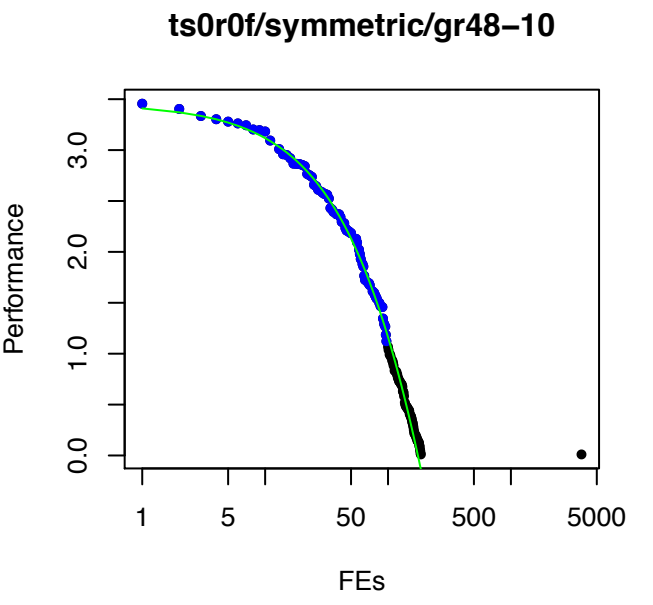
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0f/symmetric/gr48−10
Performance
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3.0
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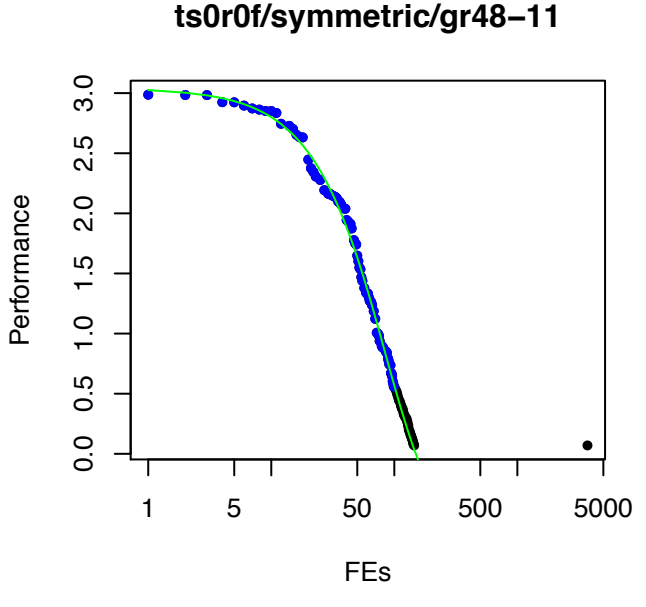
5000
FEs


ts0r0f/symmetric/gr48−11
Performance
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2.0
2.5
3.0
1
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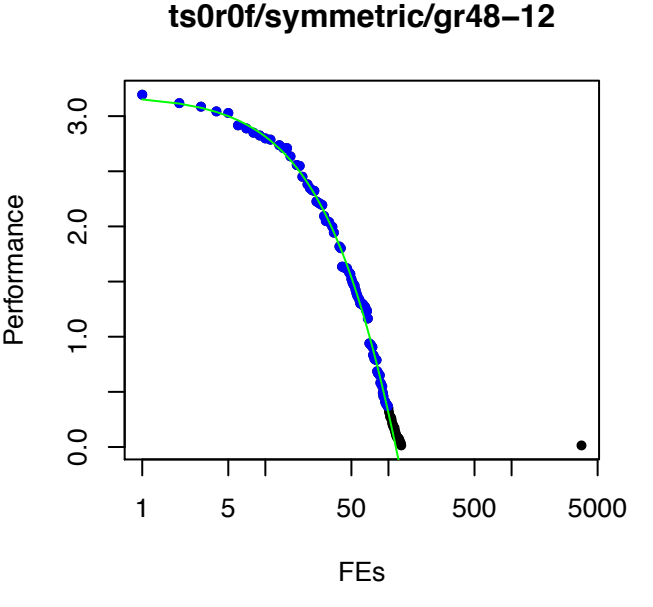
500
5000
FEs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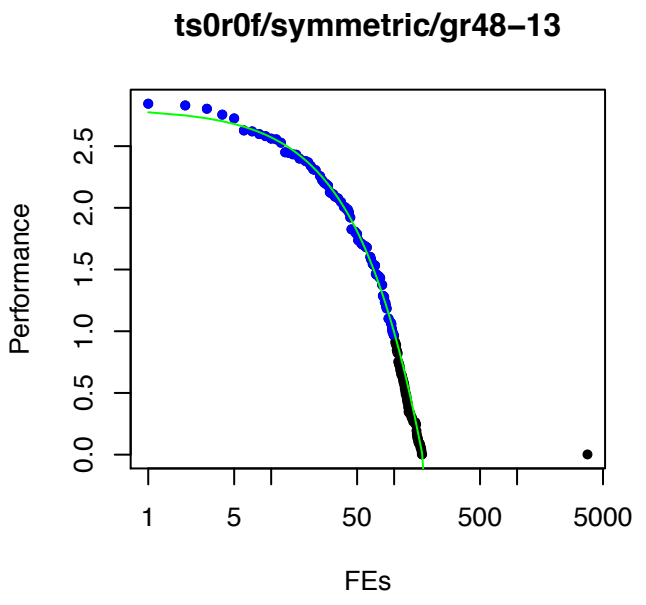
5000
FEs


ts0r0f/symmetric/gr48−13
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2.0
2.5
1
5
50
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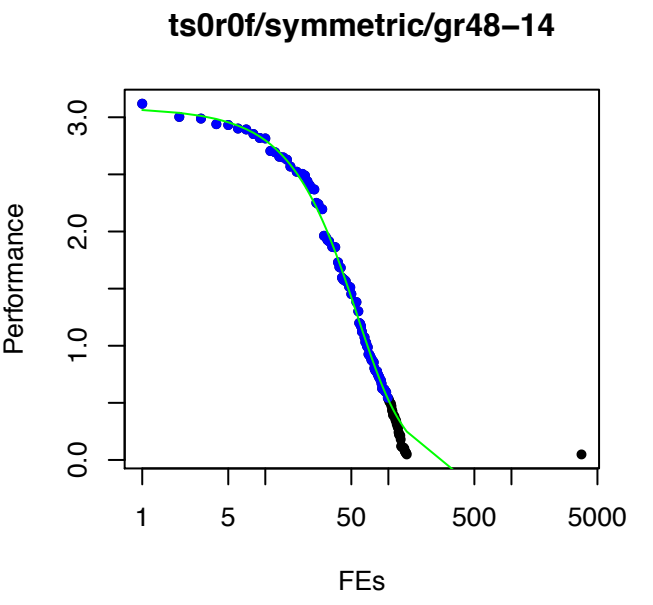
5000
FEs


ts0r0f/symmetric/gr48−14
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5
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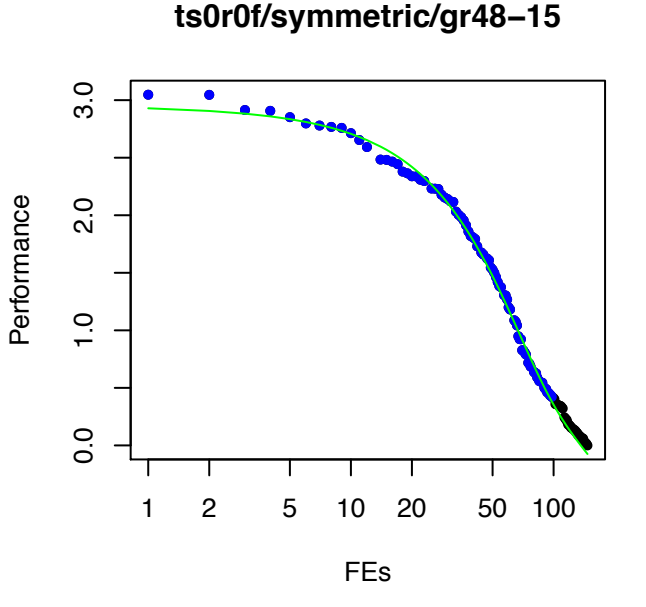
5000
FEs


ts0r0f/symmetric/gr48−15
Performance
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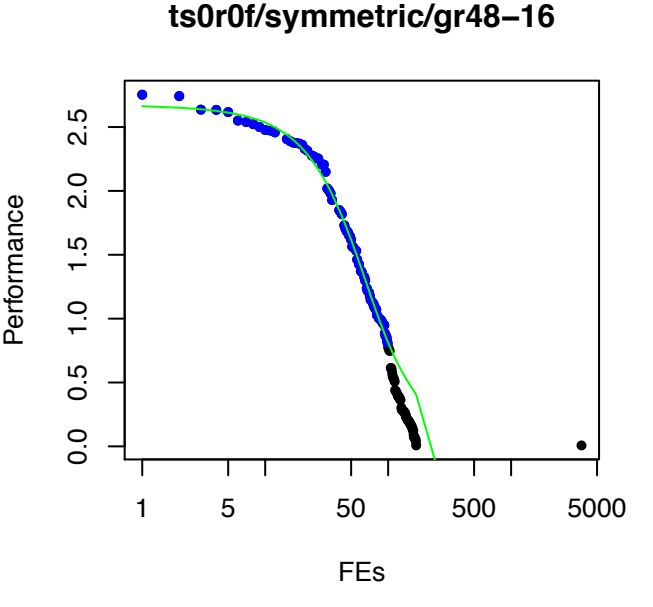
3.0
1
2
5
10
20
50
100
FEs


ts0r0f/symmetric/gr48−16
Performance
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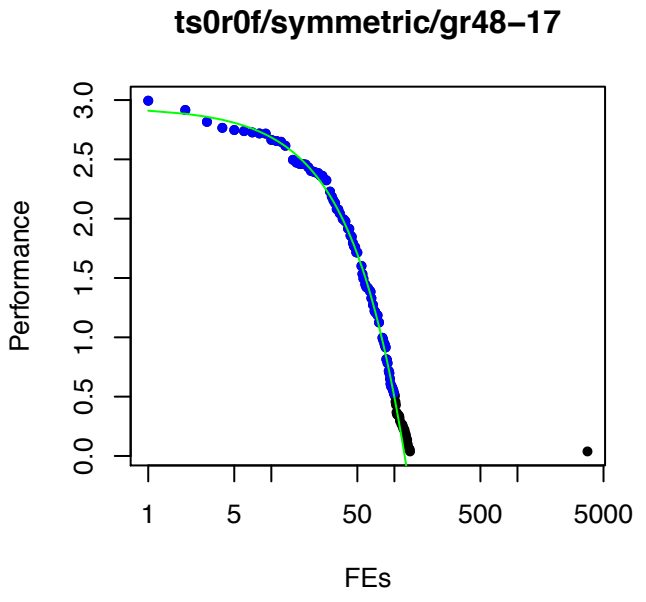
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0f/symmetric/gr48−17
Performance
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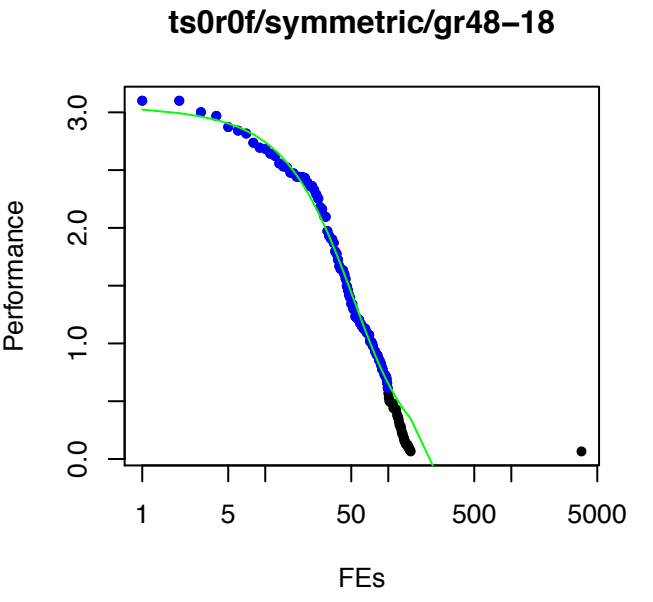
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/gr48−18
Performance
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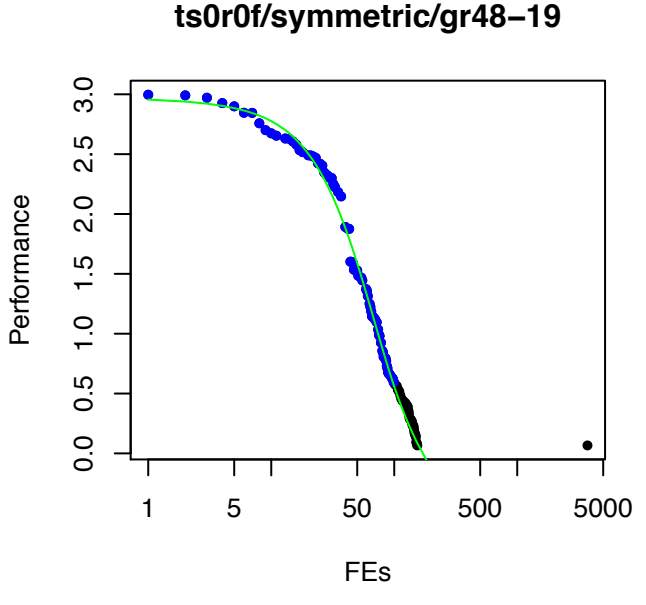
2.0
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/gr48−19
Performance
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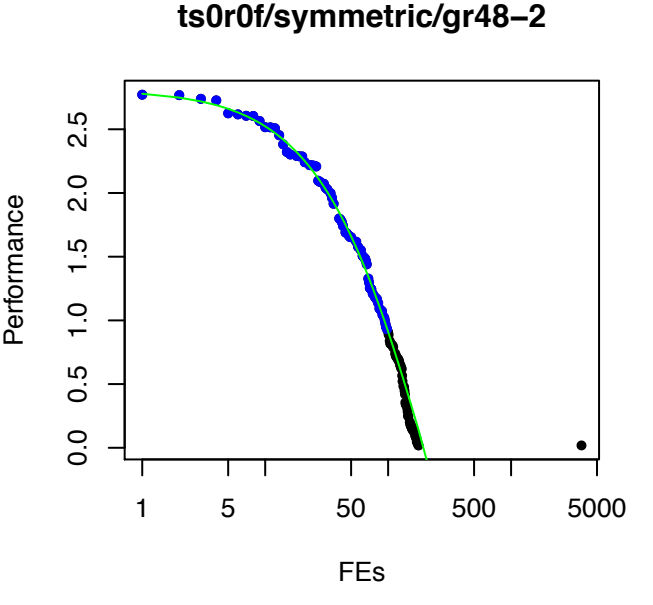
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs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Performance
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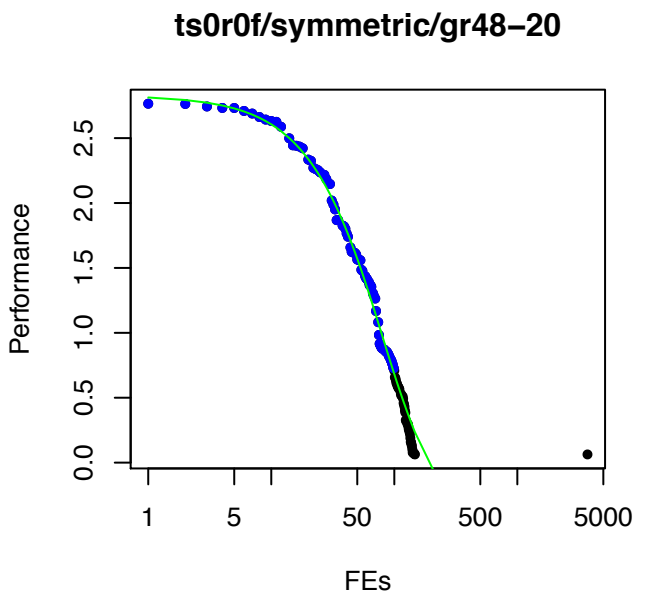
0.5
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0f/symmetric/gr48−20
Performance
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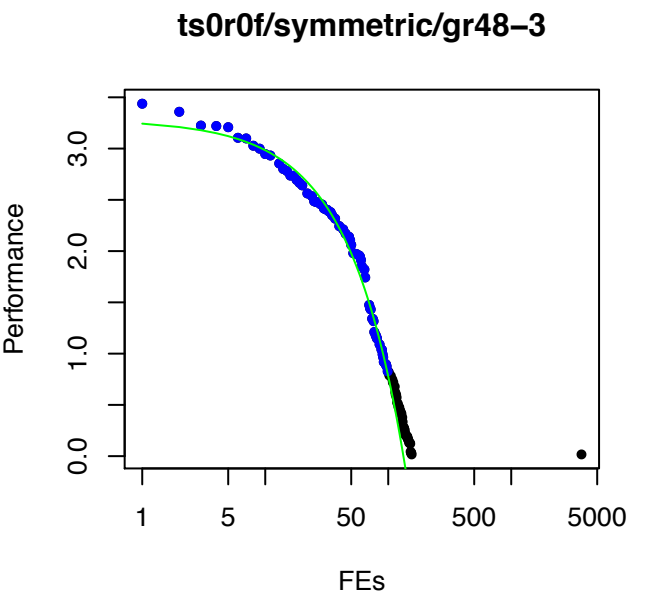
0.5
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0f/symmetric/gr48−3
Performance
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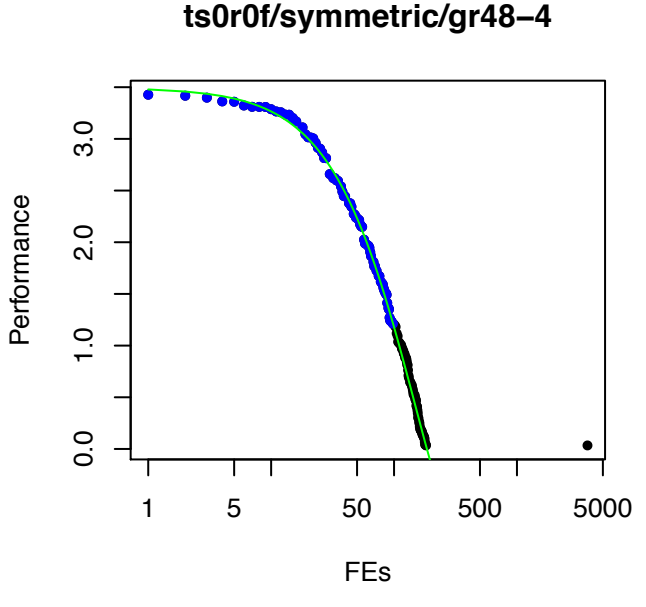
2.0
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/gr48−4
Performance
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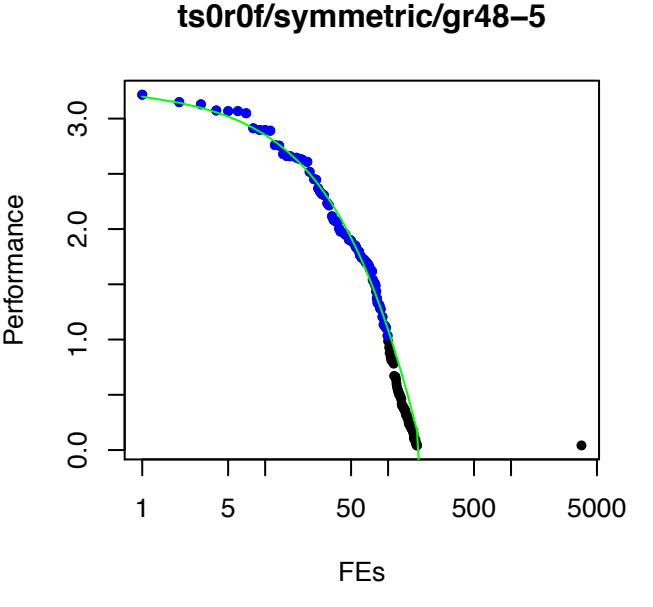
1.0
2.0
3.0
1
5
50
500
5000
FEs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Performance
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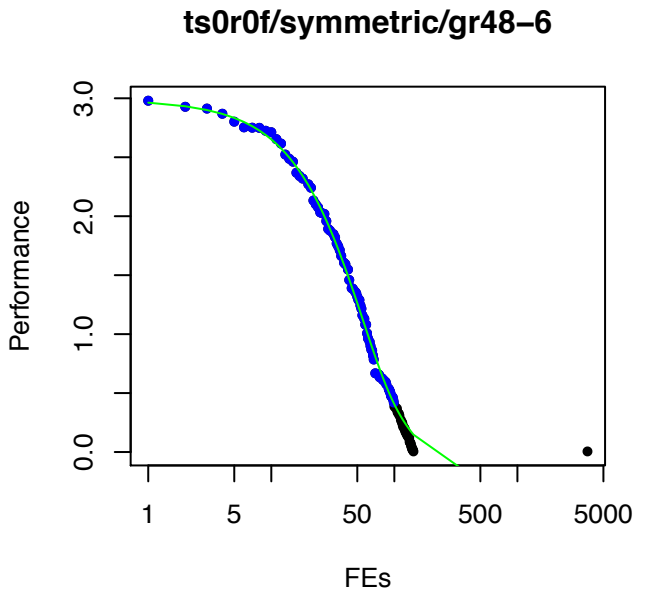
2.0
3.0
1
5
50
500
5000
FEs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Performance
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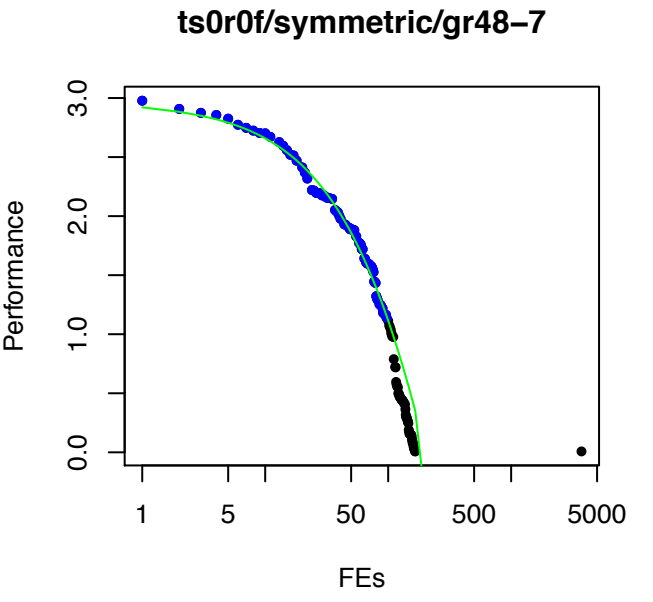
3.0
1
5
50
500
5000
FEs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Performance
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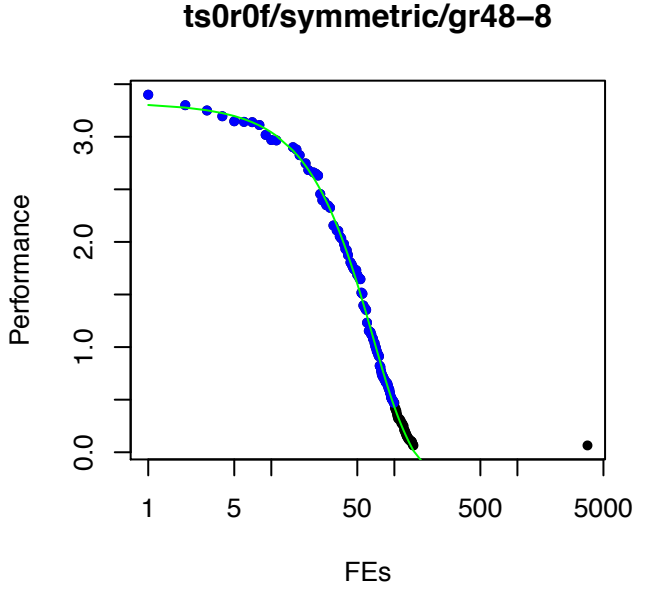
2.0
3.0
1
5
50
500
5000
FEs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Performance
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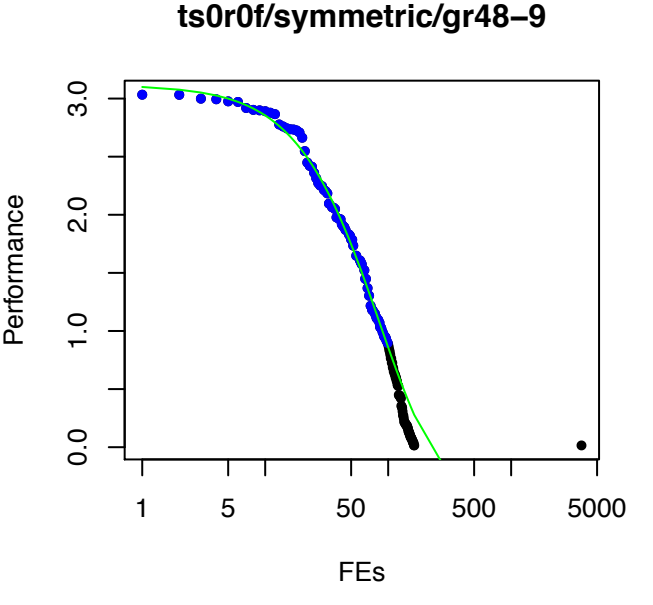
2.0
3.0
1
5
50
500
5000
FEs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Performance
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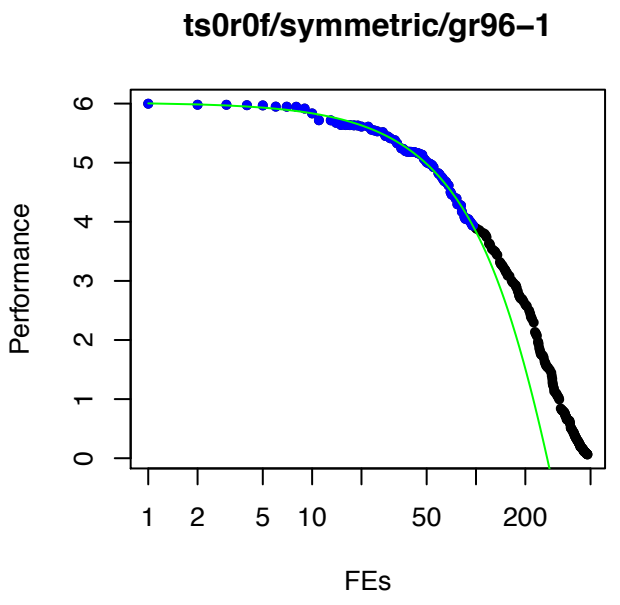
3.0
1
5
50
500
5000
FEs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Performance
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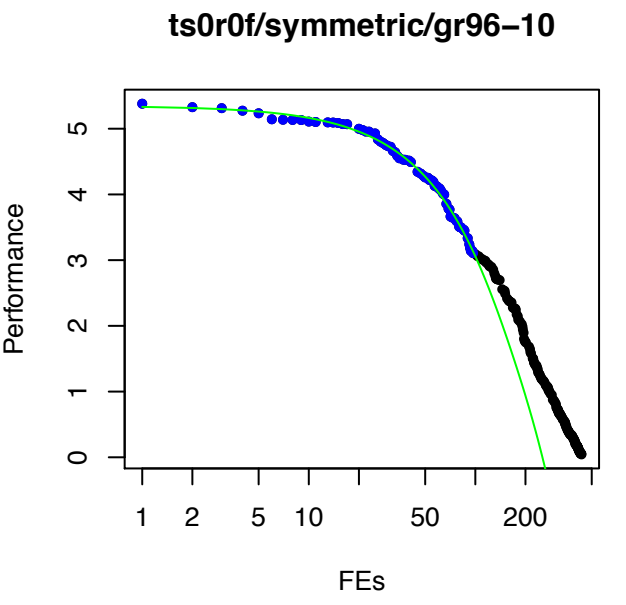
2
5
10
50
200
FEs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Performance
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5
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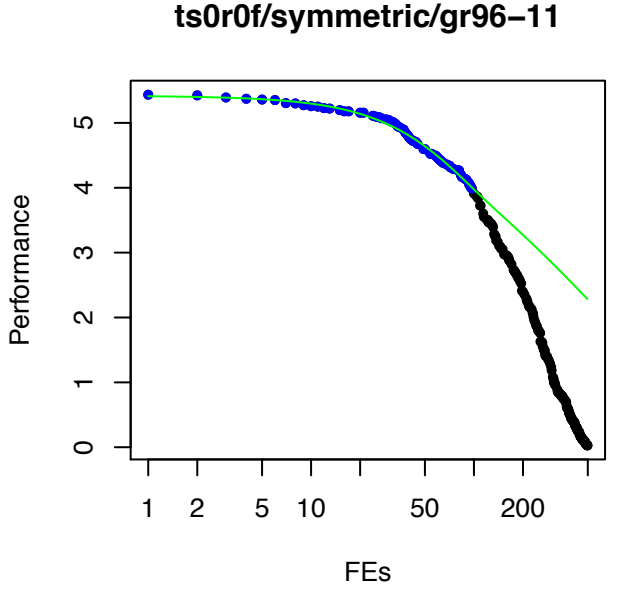
2
5
10
50
200
FEs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Performance
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2
5
10
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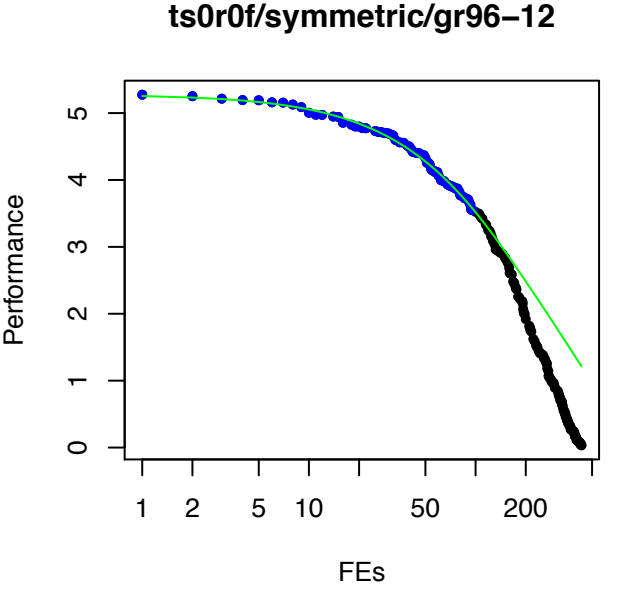
200
FEs


ts0r0f/symmetric/gr96−12
Performance
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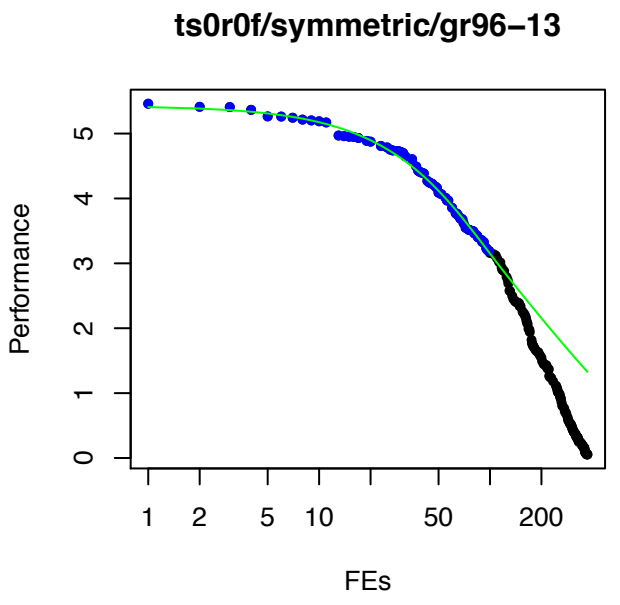
200
FEs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Performance
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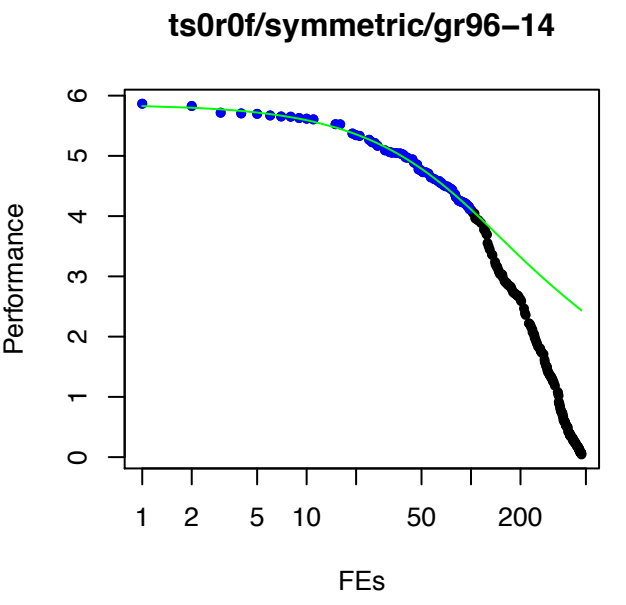
FEs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Performance
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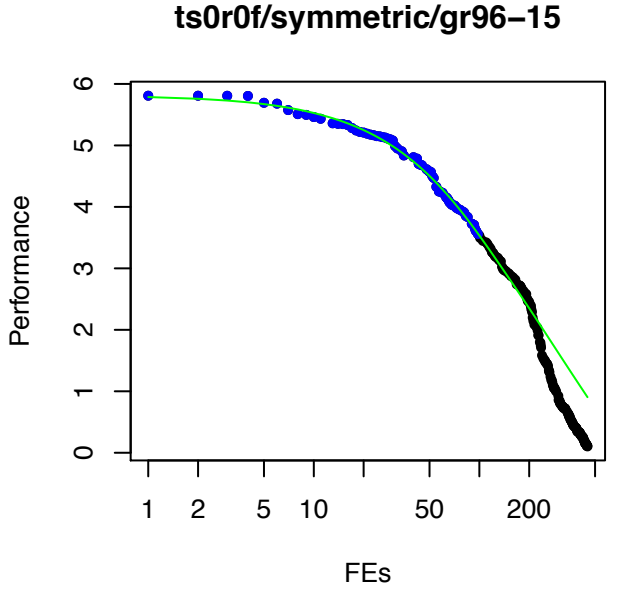
FEs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Performance
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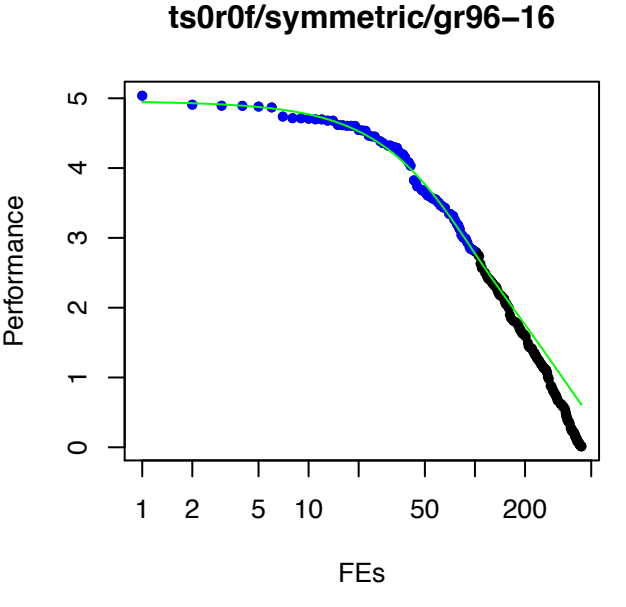
200
FEs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Performance
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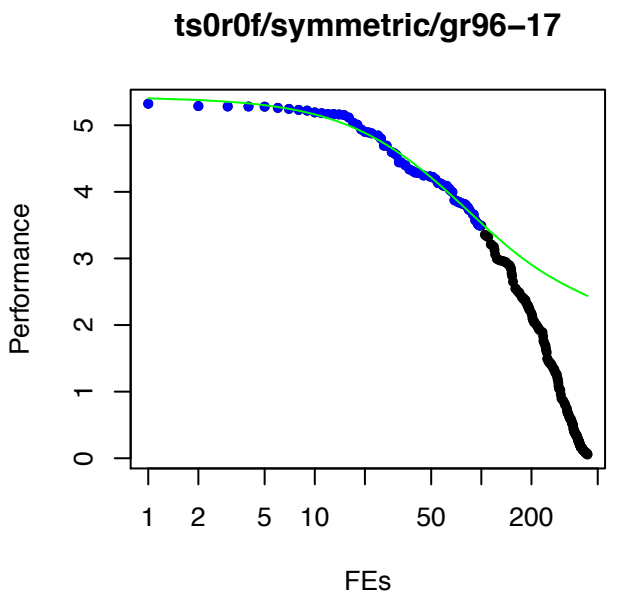
200
FEs


ts0r0f/symmetric/gr96−17
Performance
FEs
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5
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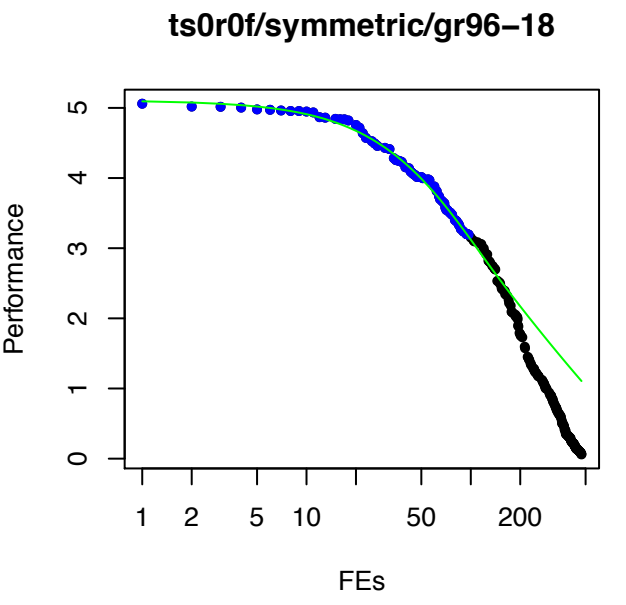
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Performance
FEs
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5
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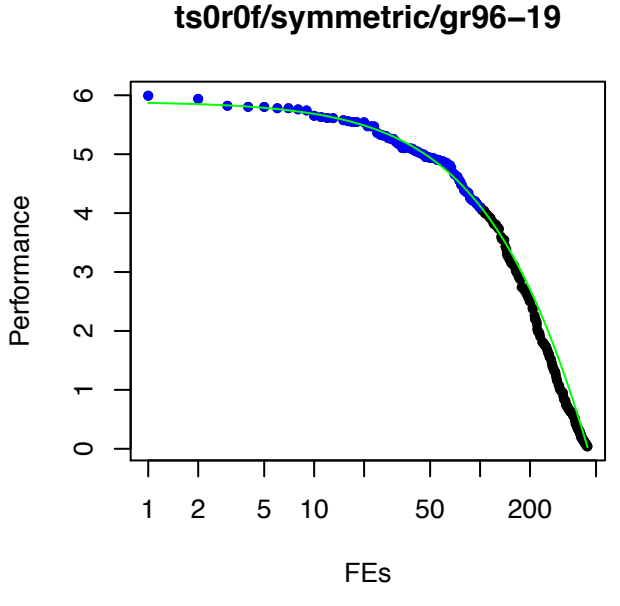
200


ts0r0f/symmetric/gr96−19
Performance
FEs
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6
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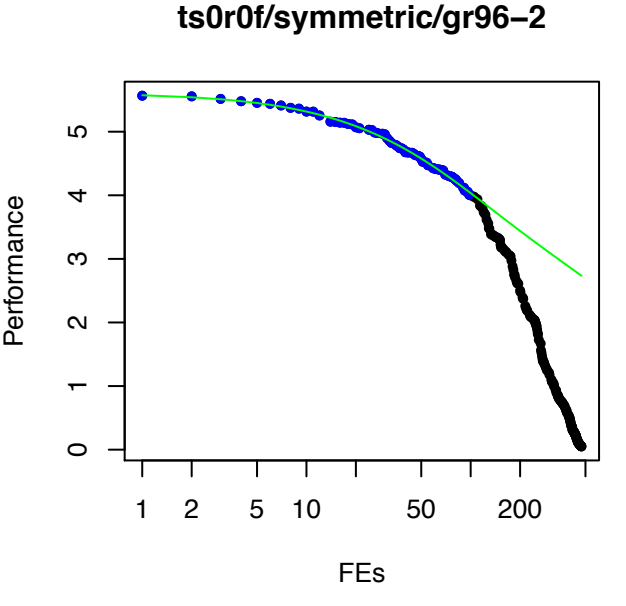
2
5
10
50
200


ts0r0f/symmetric/gr96−2
Performance
FEs
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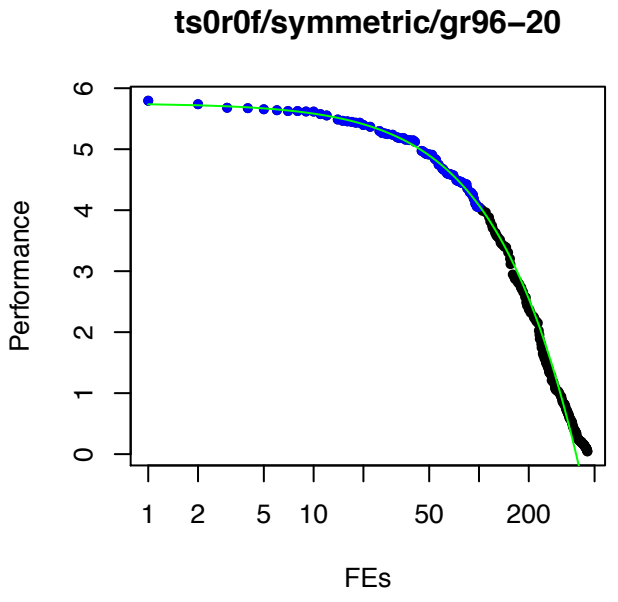
1
2
5
10
50
200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Performance
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2
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10
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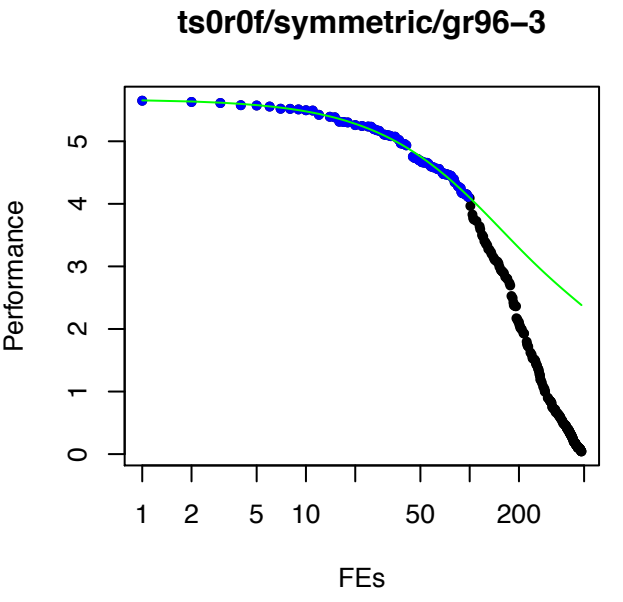
200
FEs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Performance
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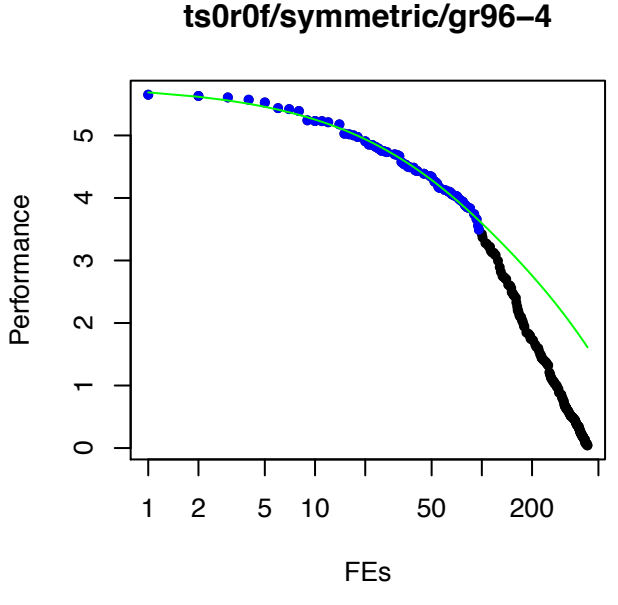
2
5
10
50
200
FEs


ts0r0f/symmetric/gr96−4
Performance
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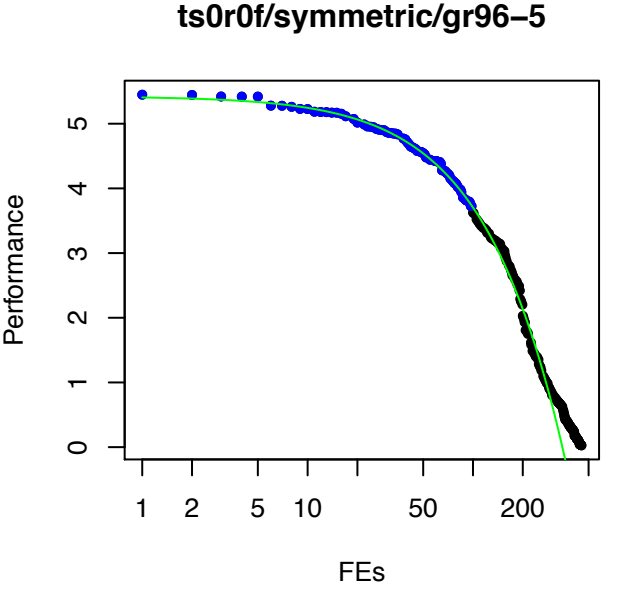
2
3
4
5
1
2
5
10
50
200
FEs


ts0r0f/symmetric/gr96−5
Performance
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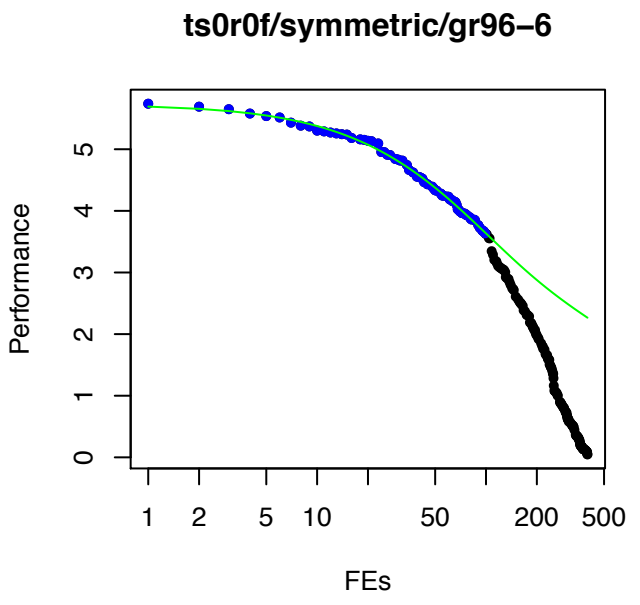
2
3
4
5
1
2
5
10
50
200
FEs


ts0r0f/symmetric/gr96−6
Performance
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2
3
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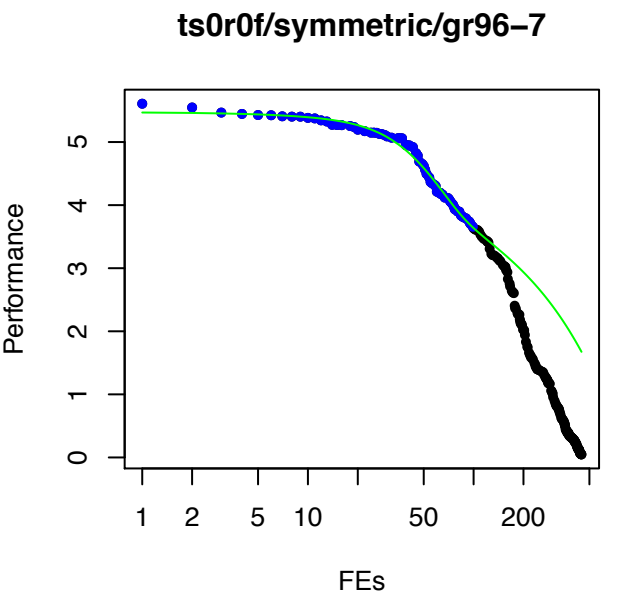
5
1
2
5
10
50
200
500
FEs


ts0r0f/symmetric/gr96−7
Performance
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2
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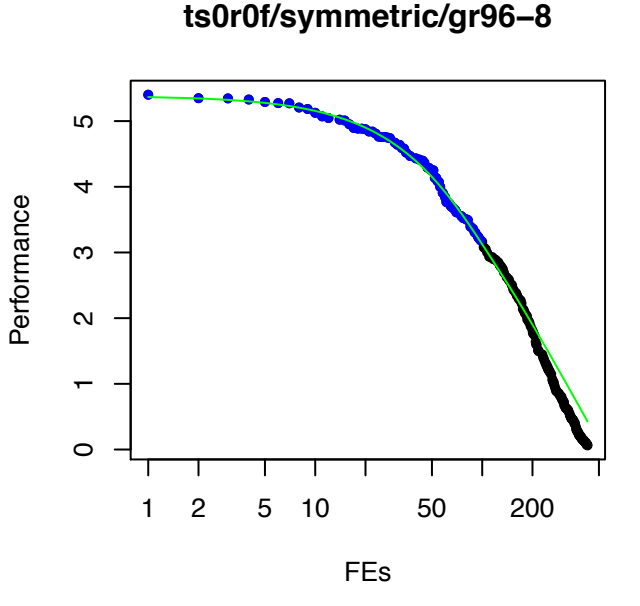
1
2
5
10
50
200
FEs


ts0r0f/symmetric/gr96−8
Performance
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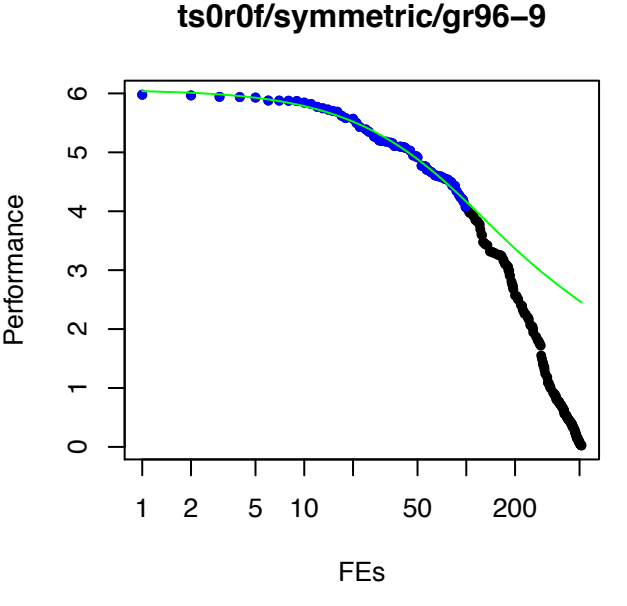
1
2
5
10
50
200
FEs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Performance
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6
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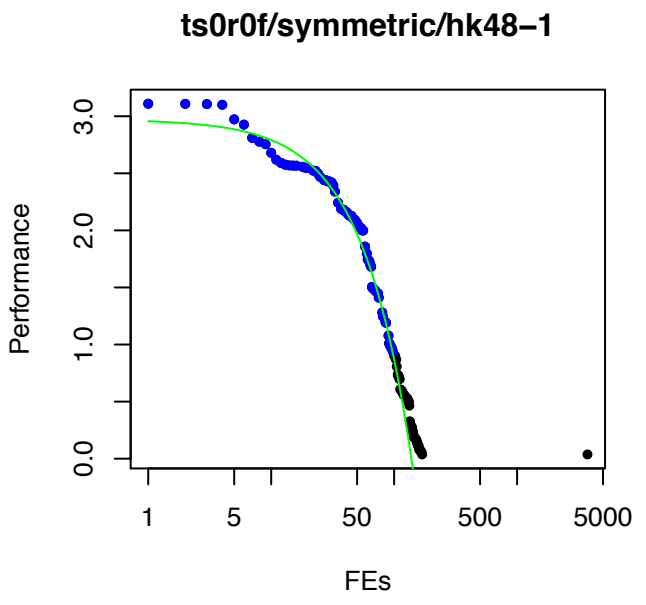
2
5
10
50
200
FEs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Performance
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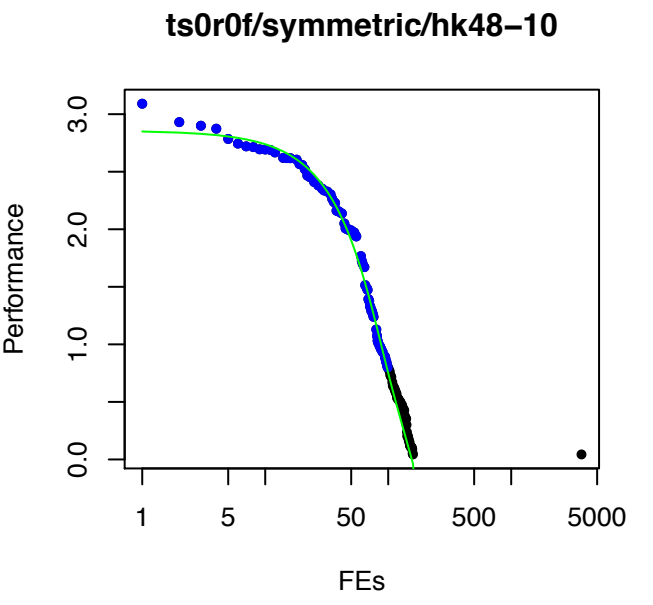
2.0
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/hk48−10
Performance
0.0
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2.0
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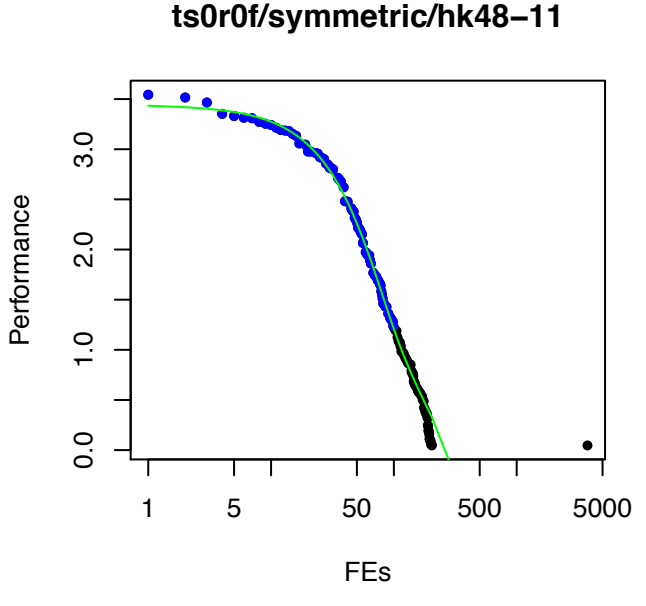
FEs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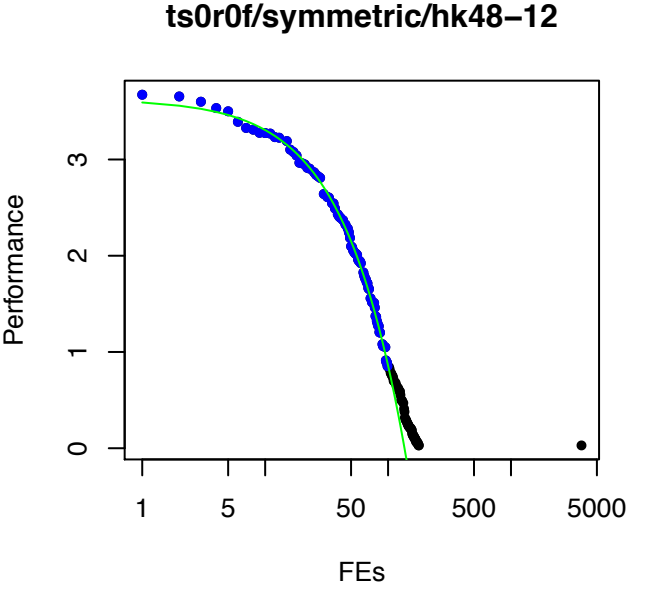
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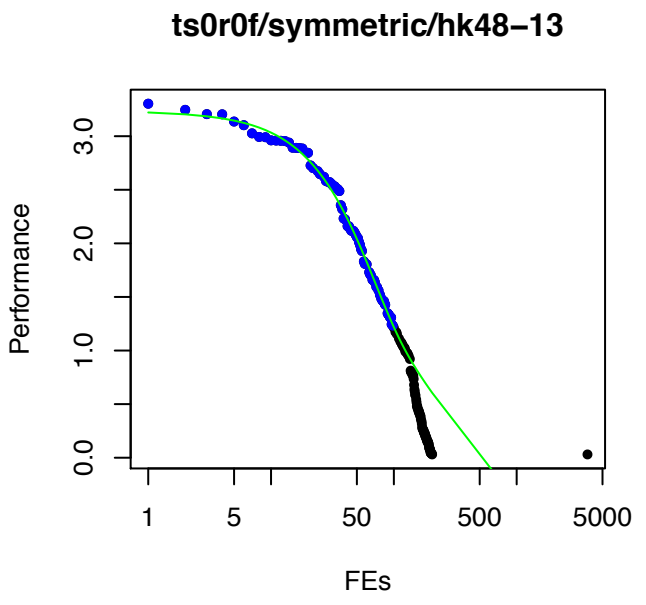
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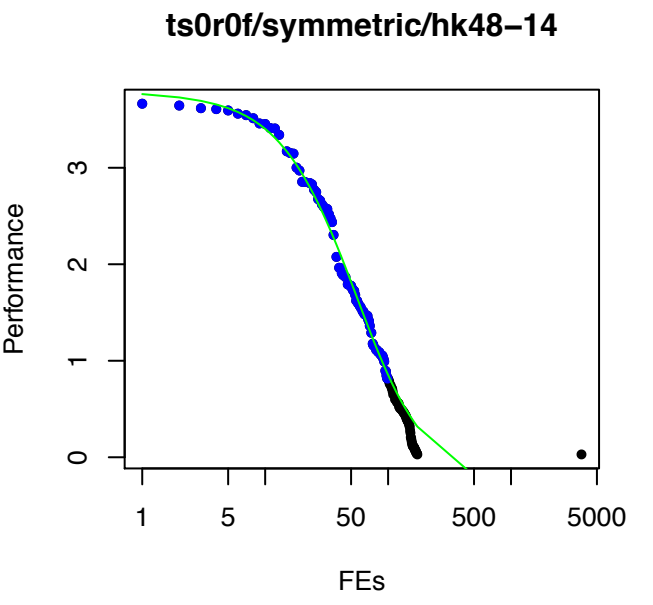
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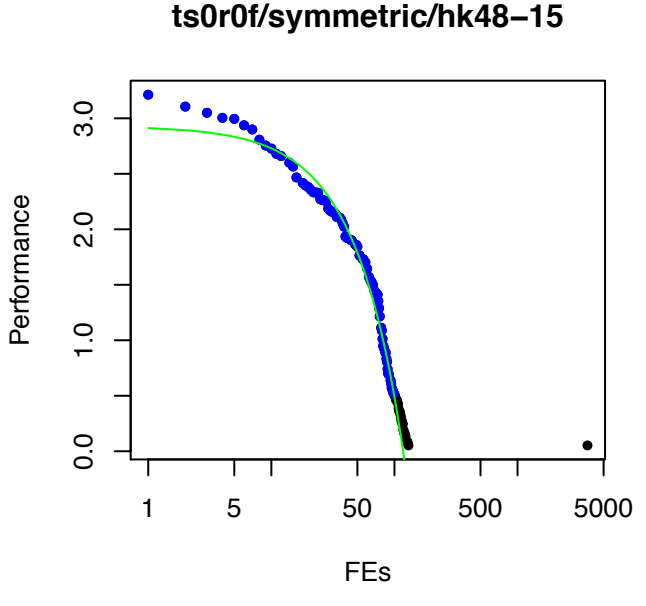
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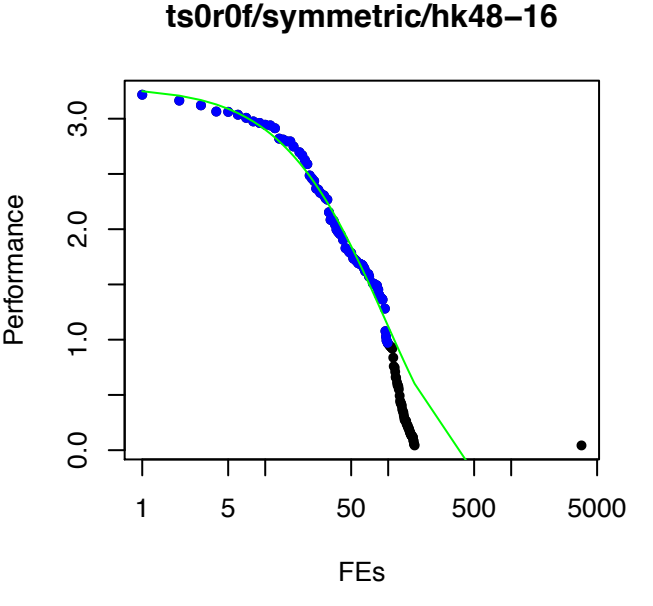
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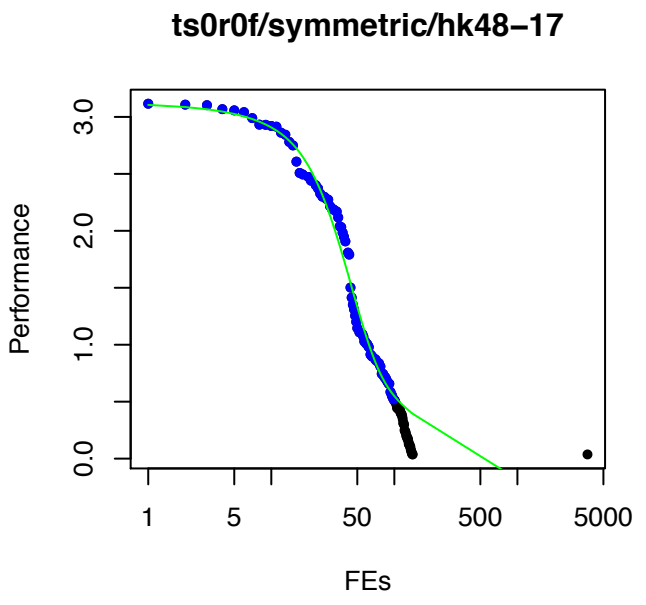
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Performance
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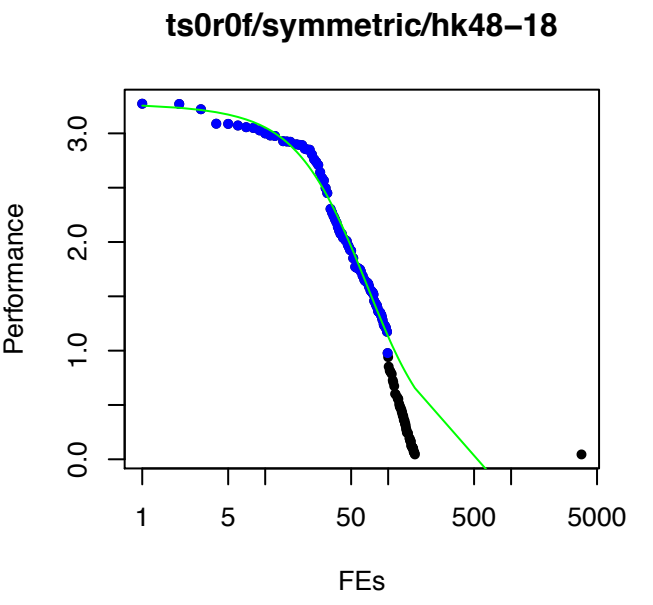
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Performance
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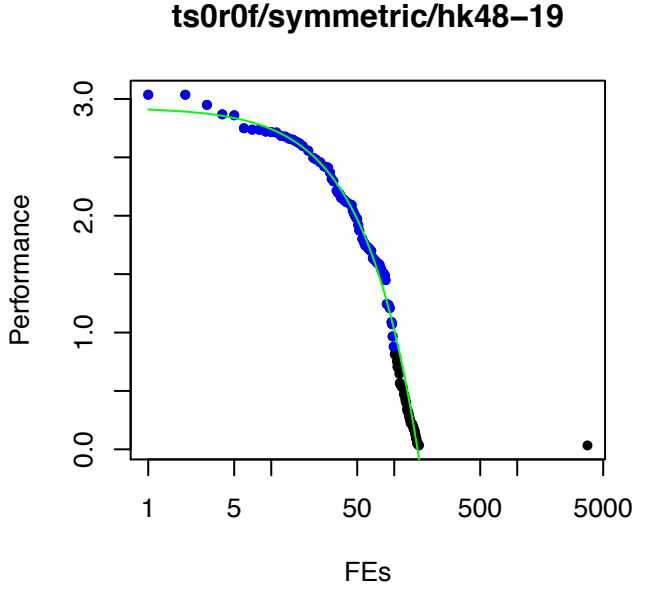
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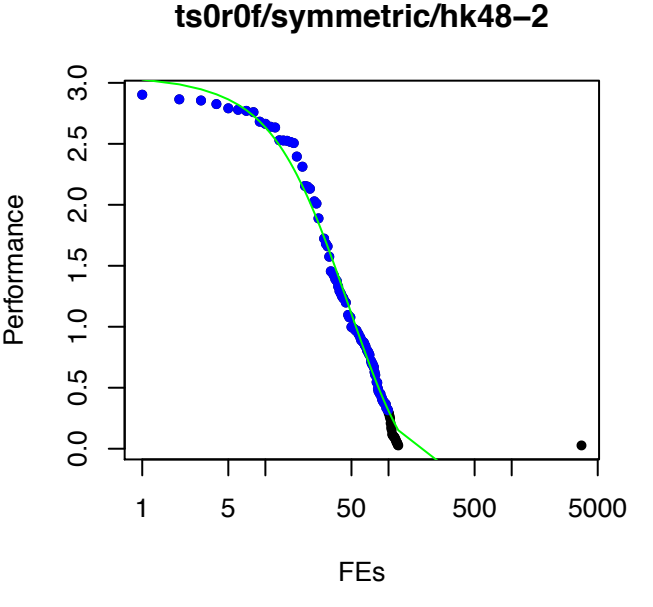
FEs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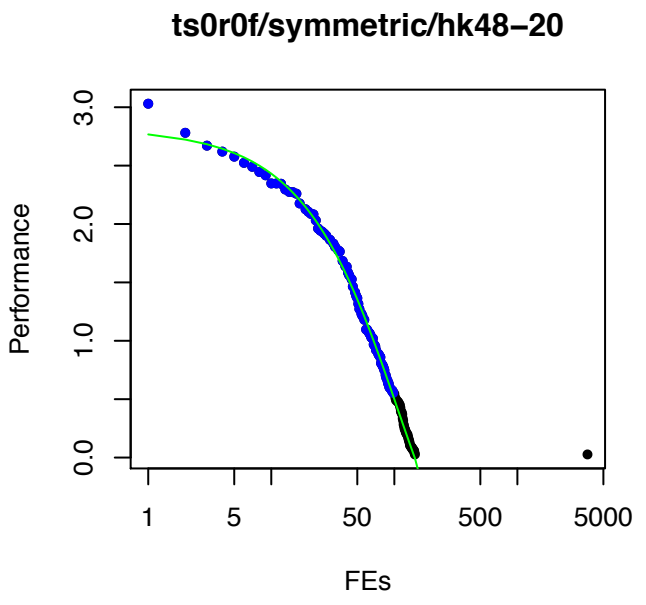
5000
FEs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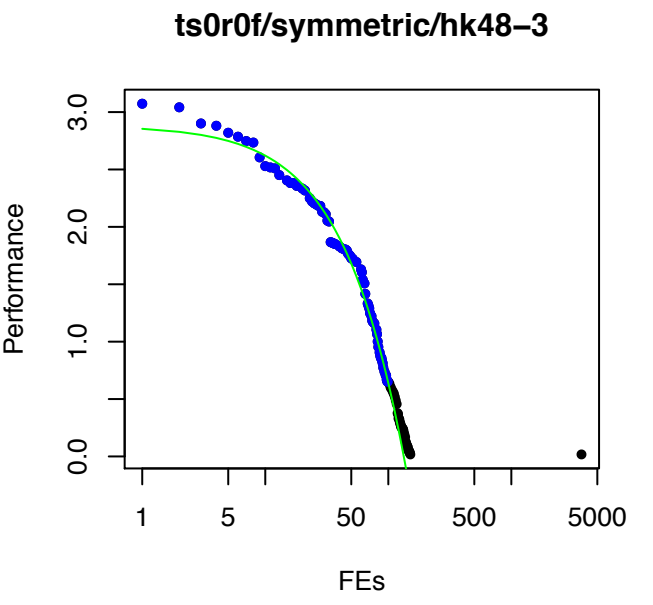
5000
FEs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Performance
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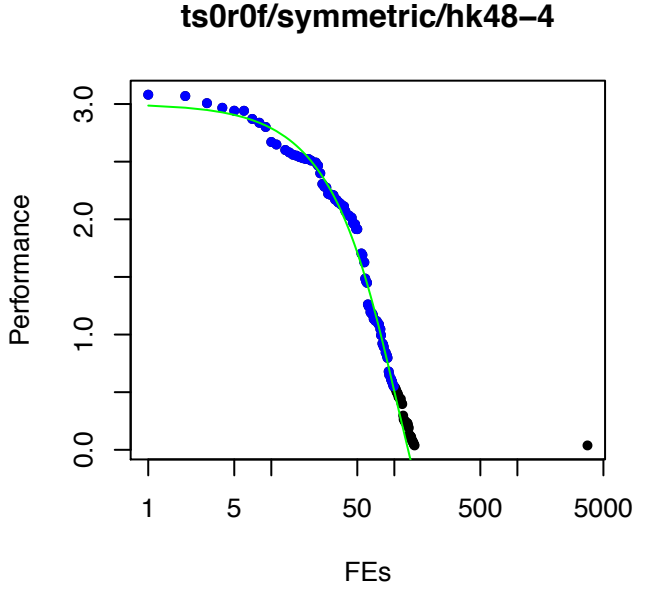
3.0
1
5
50
500
5000
FEs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Performance
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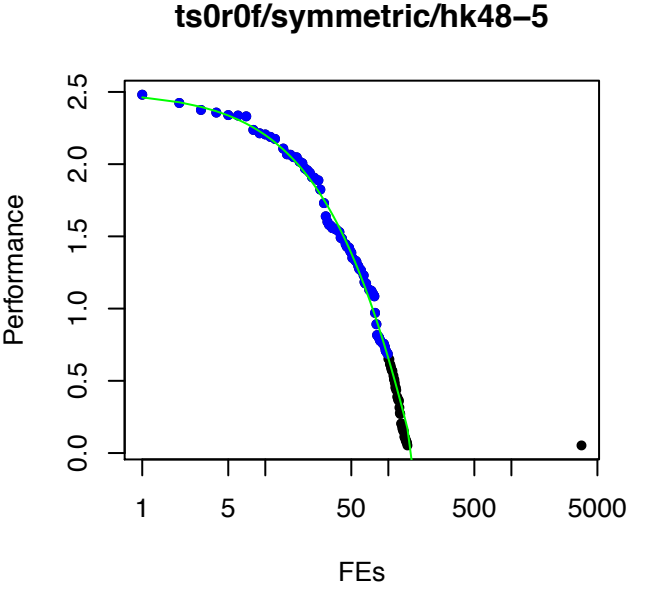
50
500
5000
FEs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Performance
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1.5
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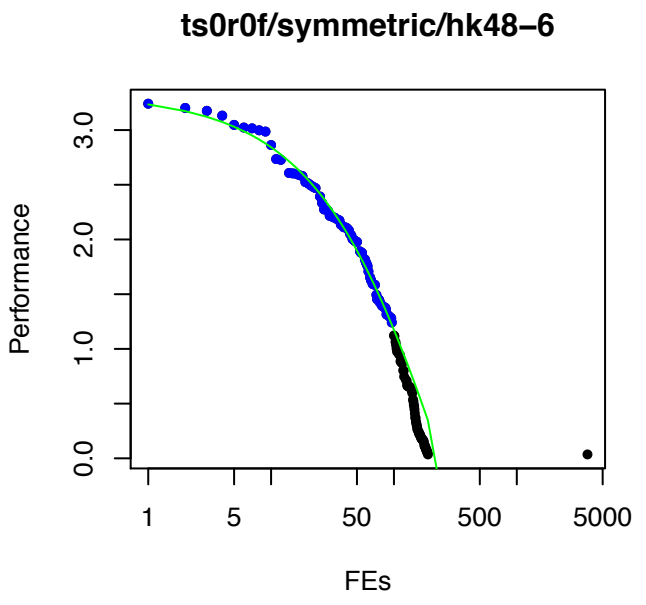
2.5
1
5
50
500
5000
FEs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Performance
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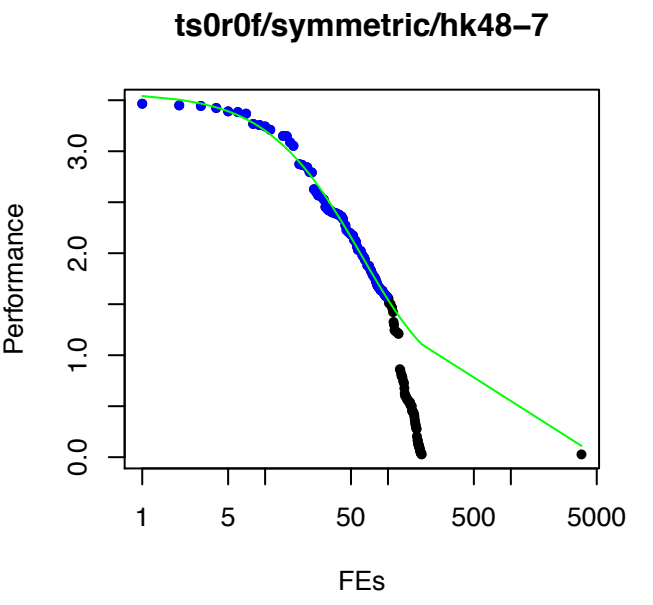
FEs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Performance
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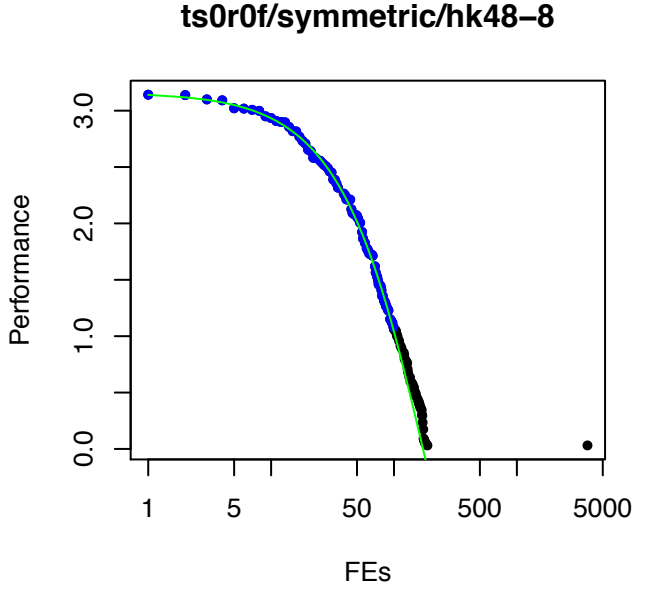
5000
FEs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Performance
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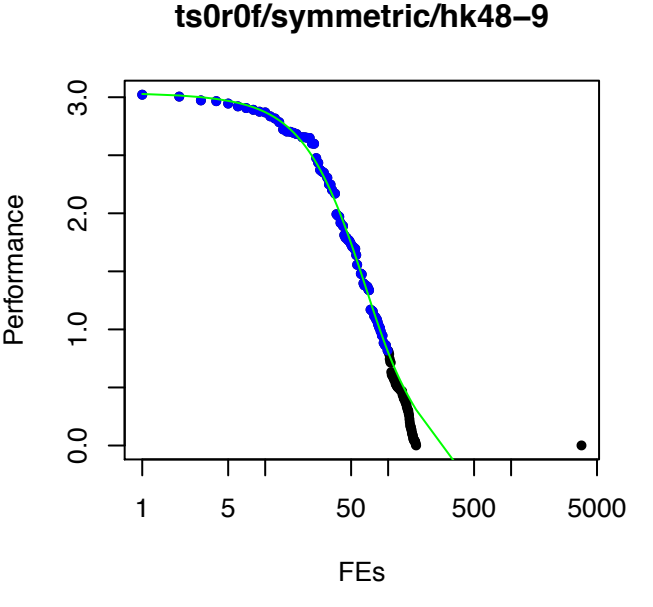
FEs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Performance
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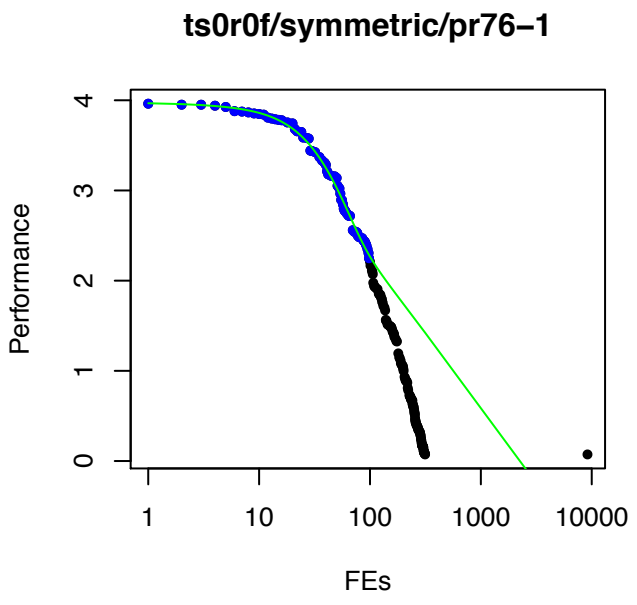
FEs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Performance
FEs
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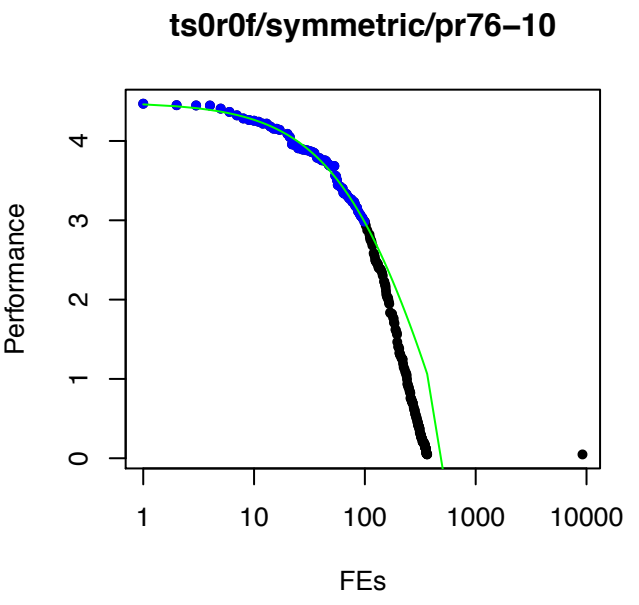
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Performance
FEs
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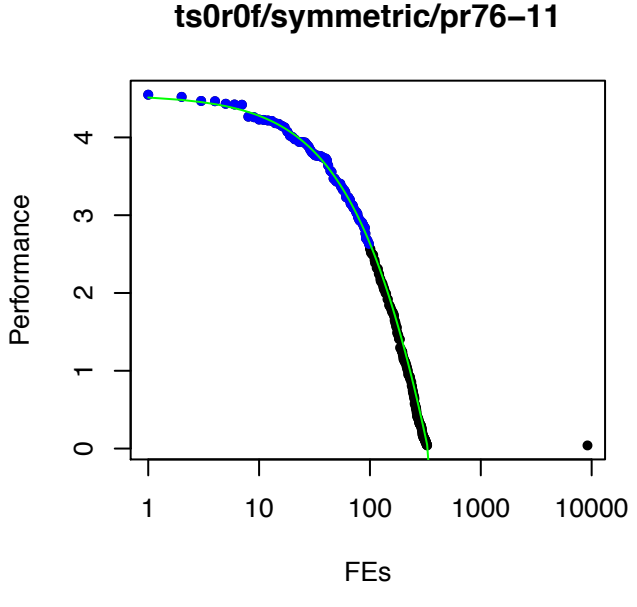
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Performance
FEs
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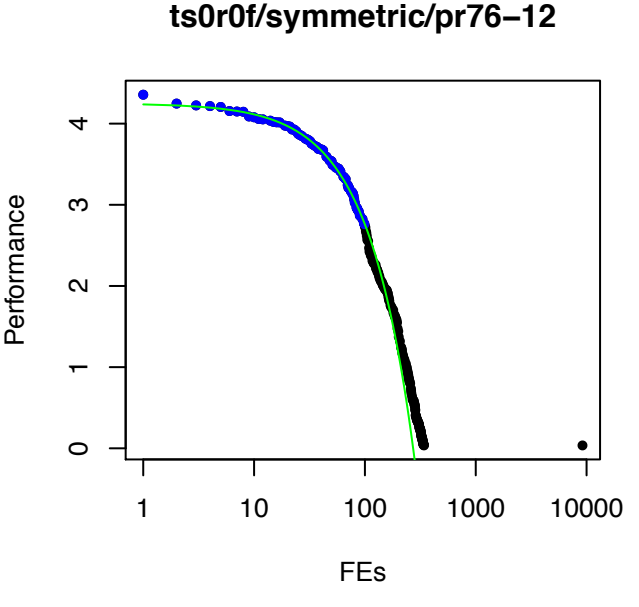
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Performance
FEs
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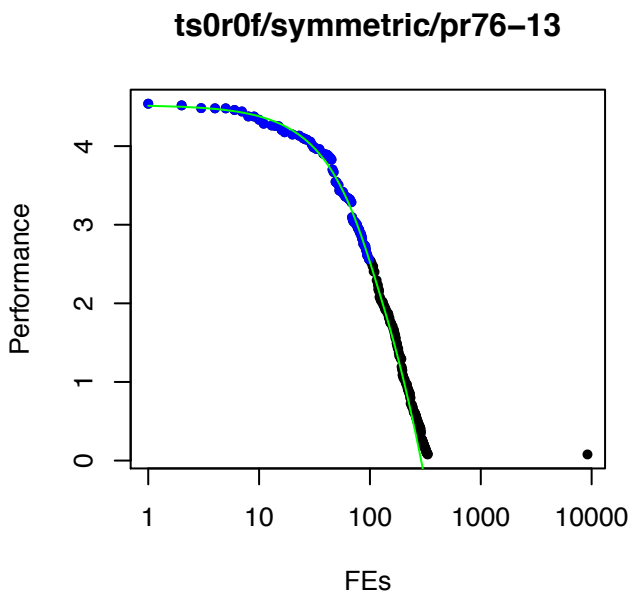
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Performance
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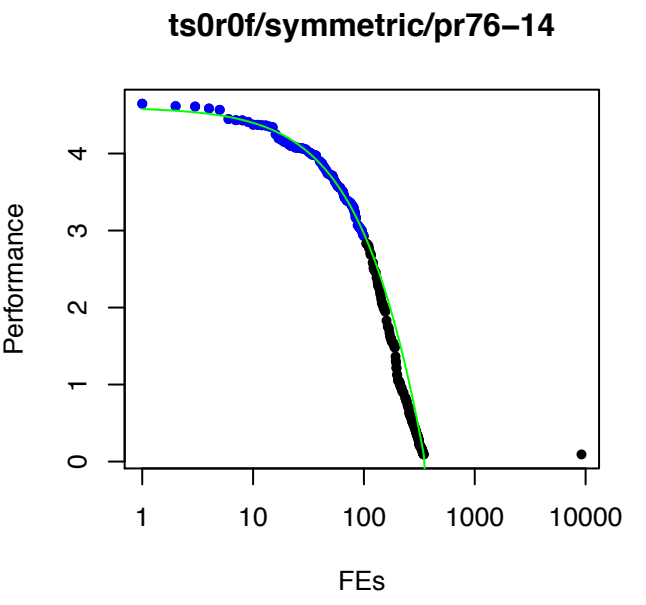
FEs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Performance
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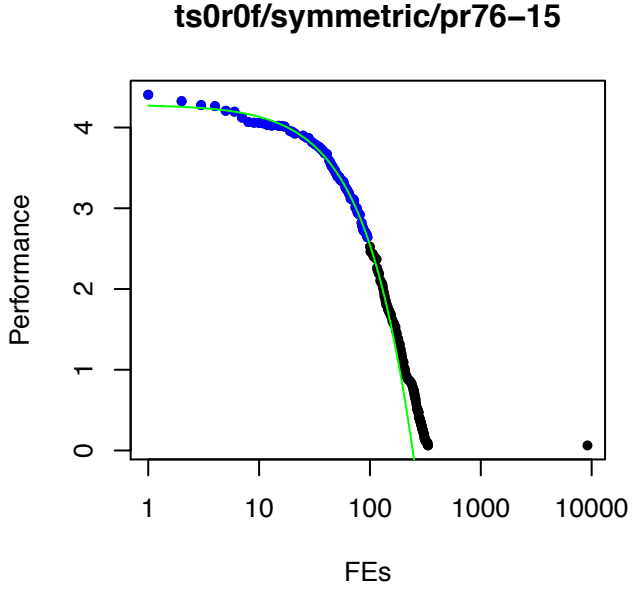
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Performance
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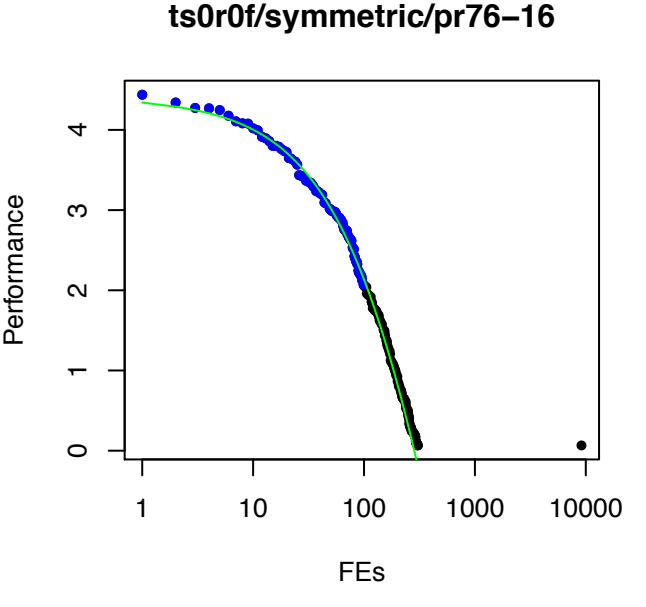
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Performance
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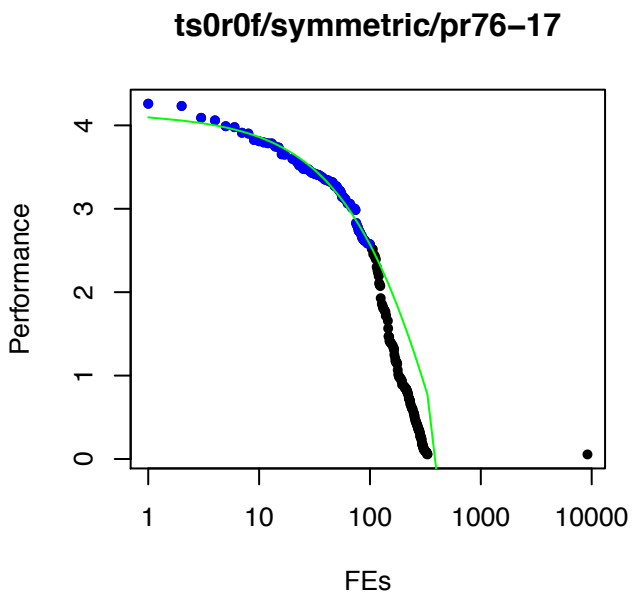
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Performance
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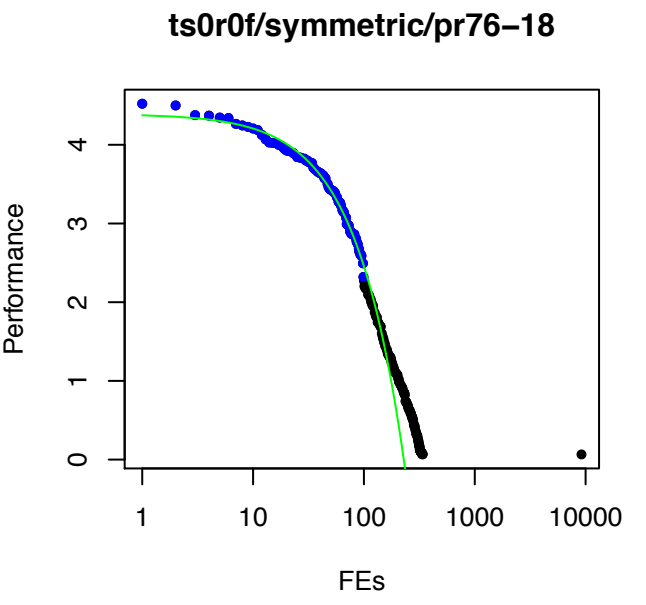
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Performance
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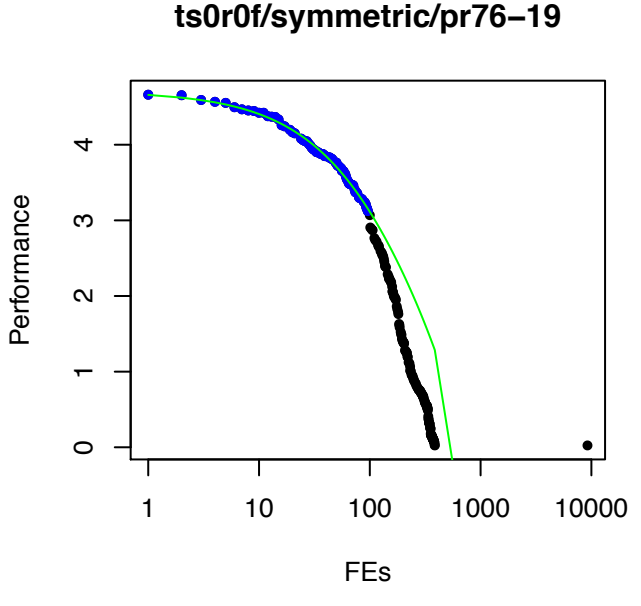
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Performance
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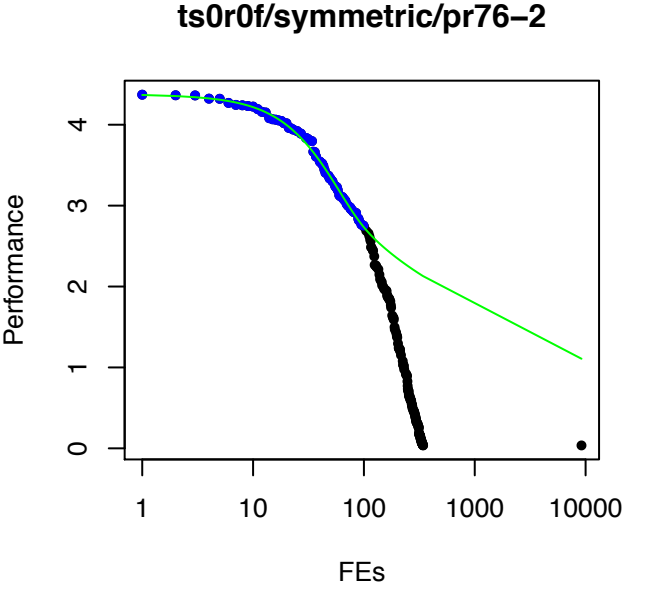
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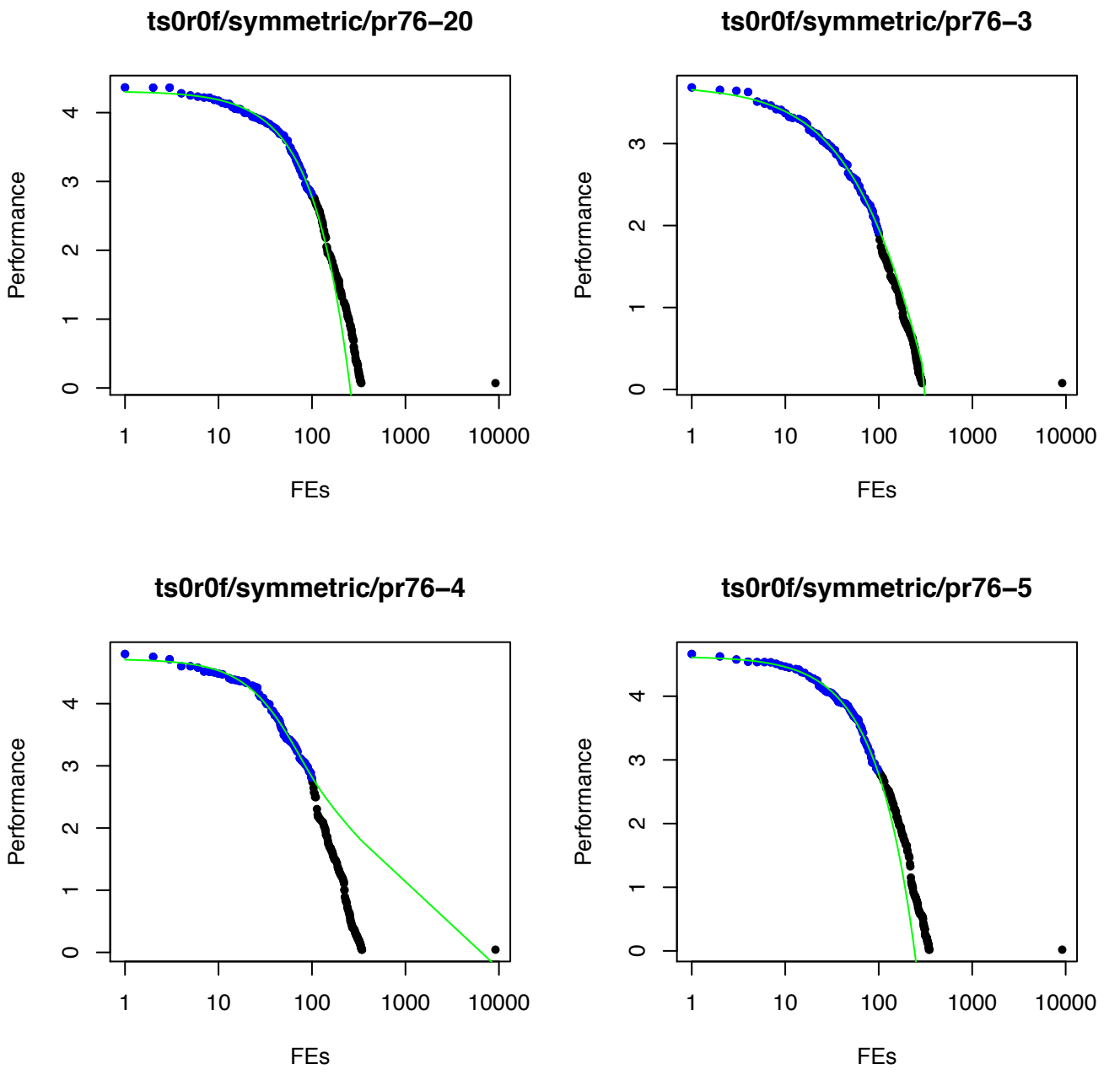
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ts0r0f/symmetric/pr76−3
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ts0r0f/symmetric/pr76−5
Performance
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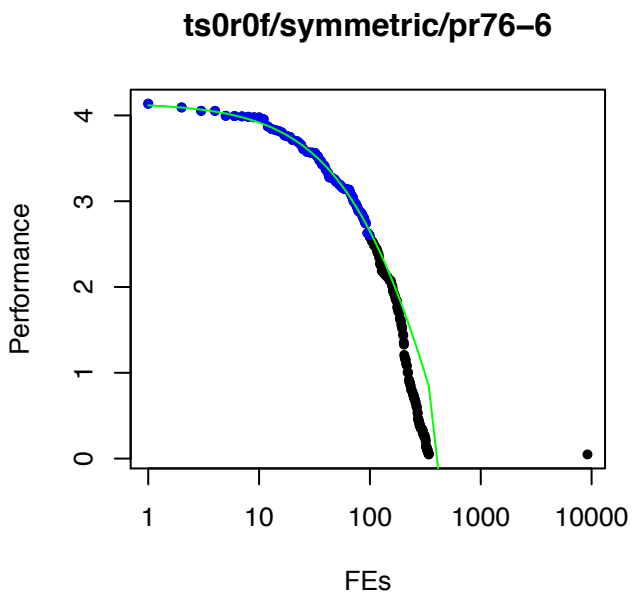
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Performance
FEs
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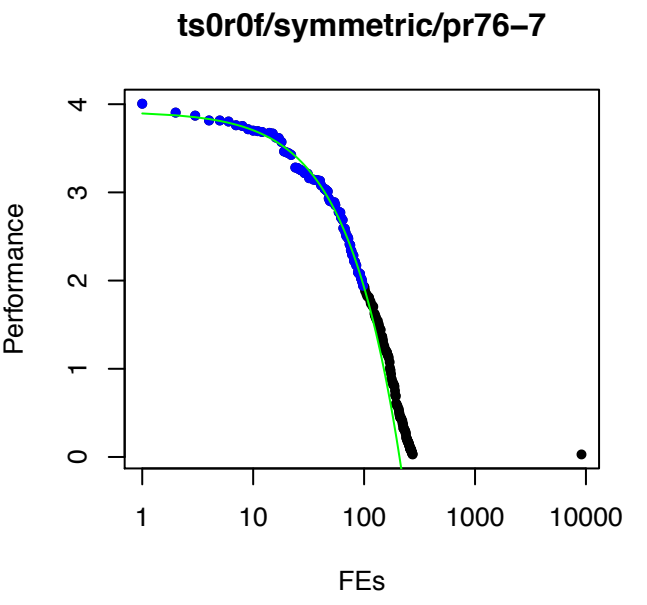
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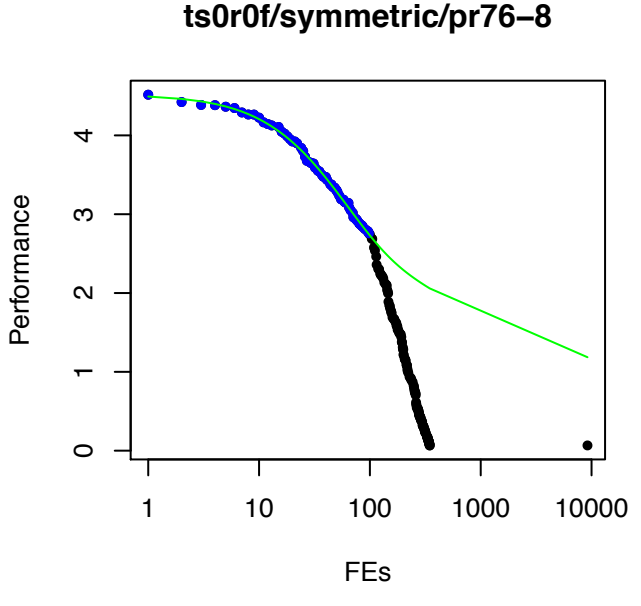
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Performance
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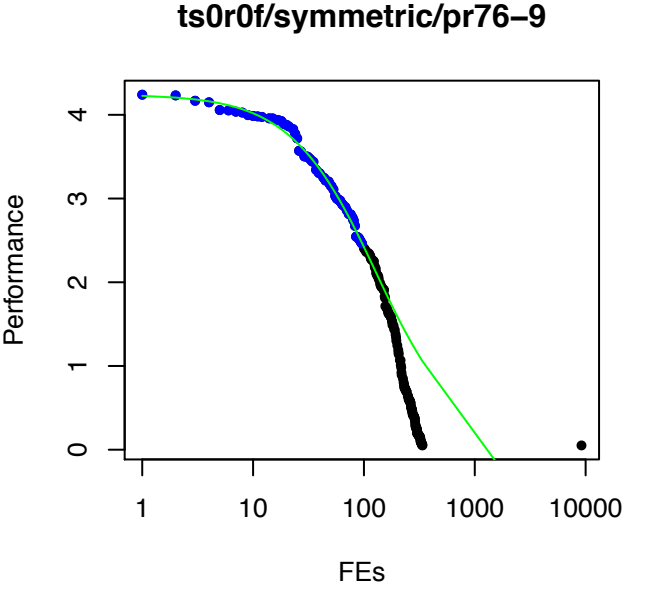
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Performance
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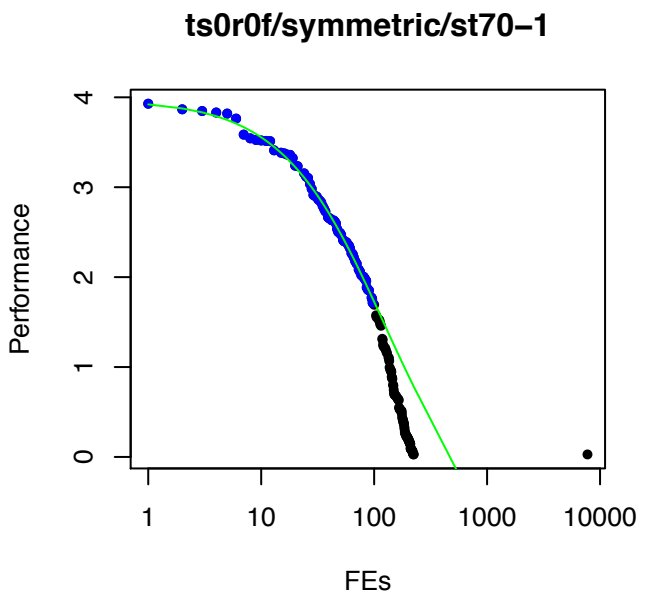
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Performance
FEs
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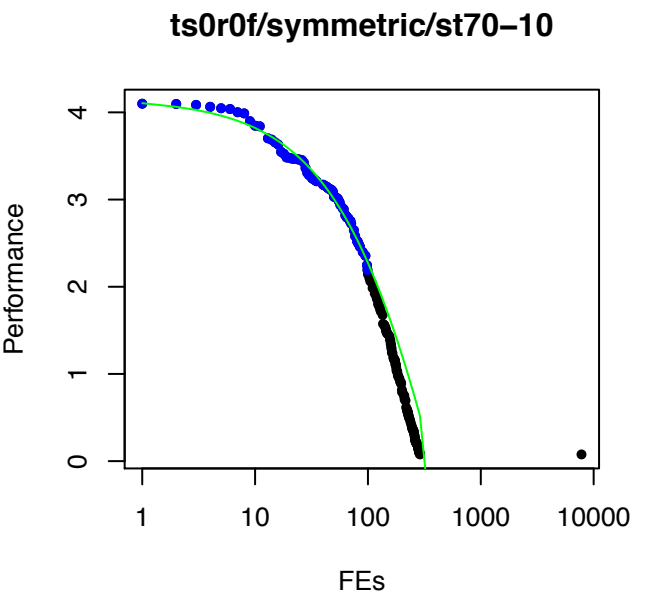
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Performance
FEs
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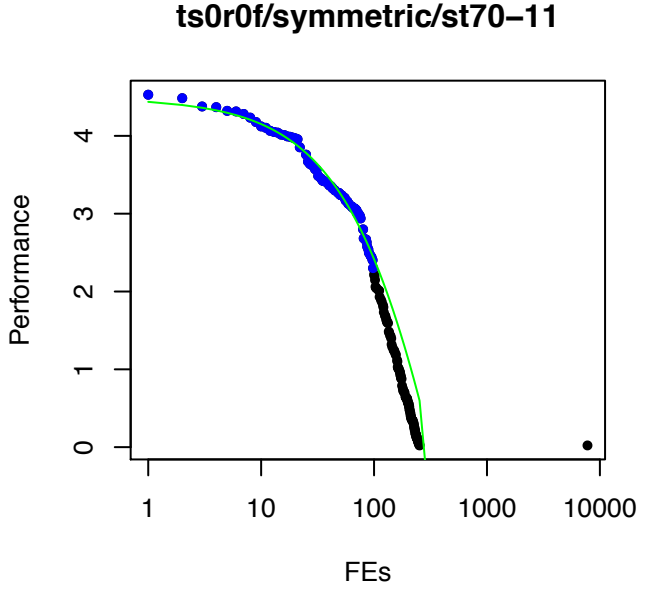
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Performance
FEs
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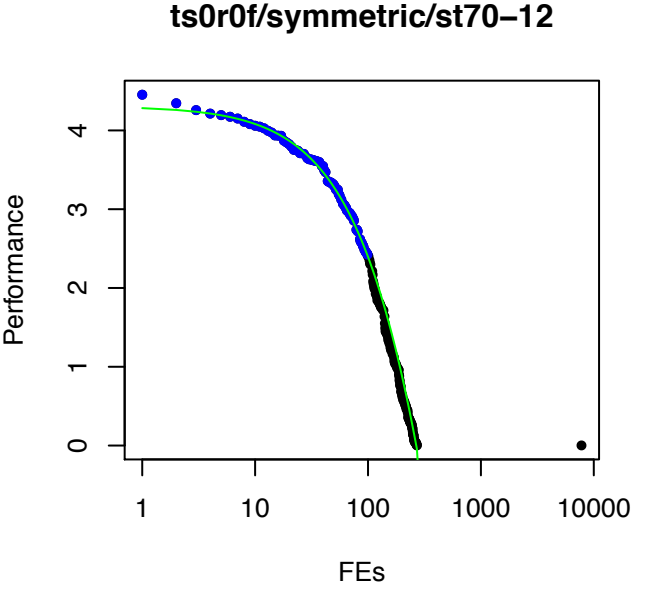
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Performance
FEs
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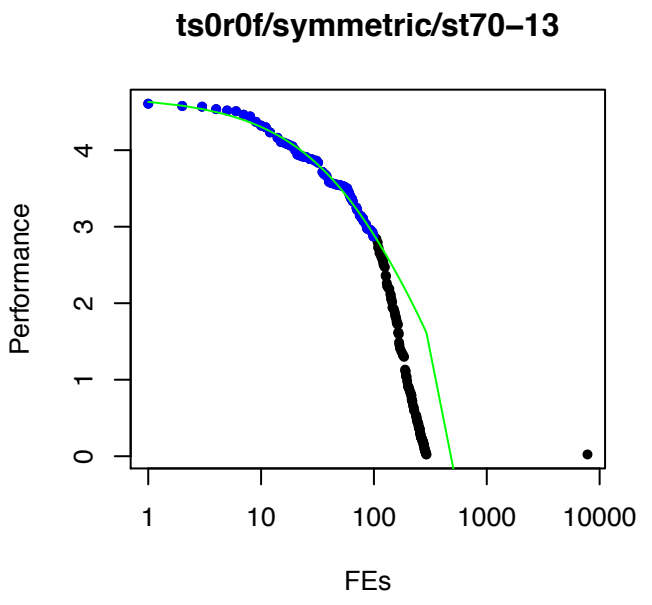
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Performance
FEs
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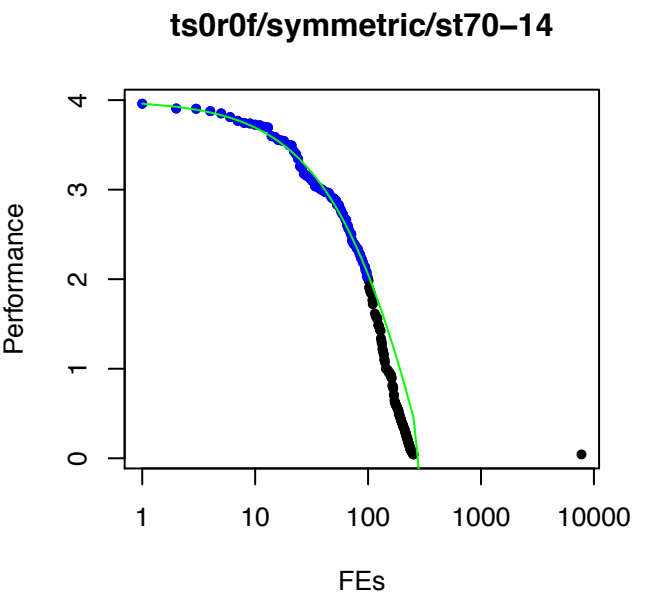
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Performance
FEs
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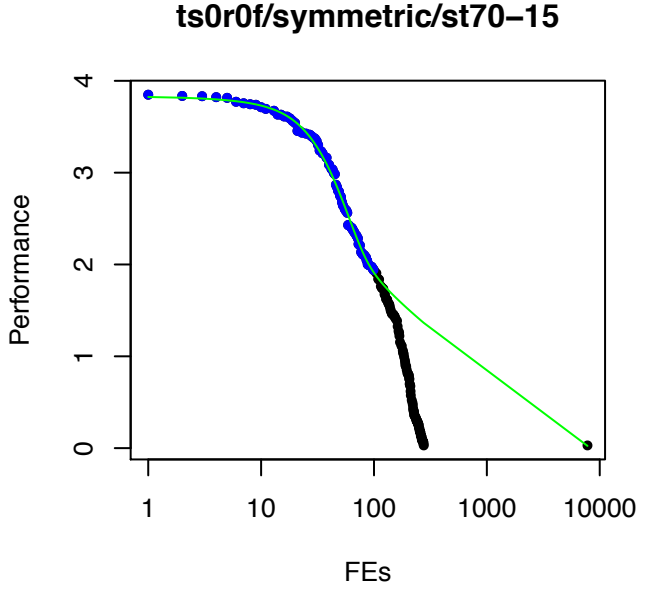
ts0r0f/symmetric/st70−15
Performance
FEs
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3
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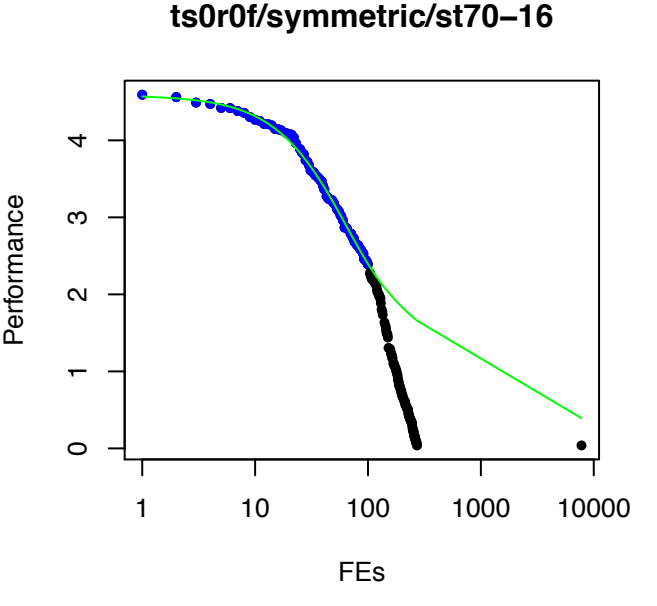
1000
10000


ts0r0f/symmetric/st70−16
Performance
FEs
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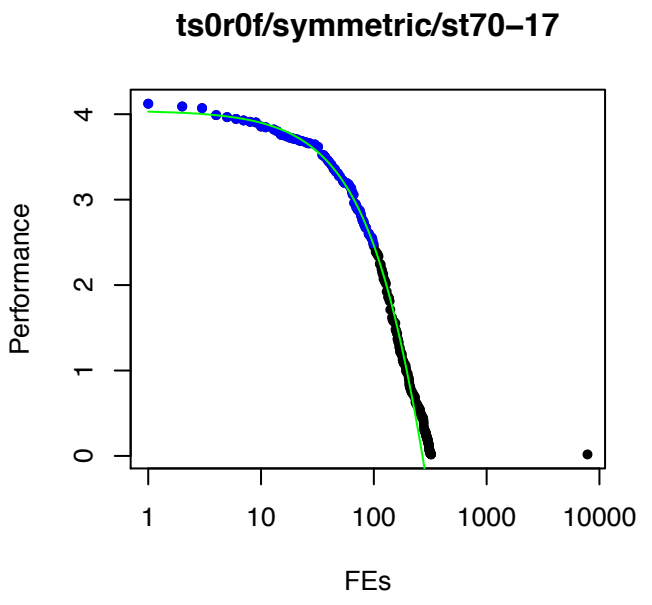
ts0r0f/symmetric/st70−17
Performance
FEs
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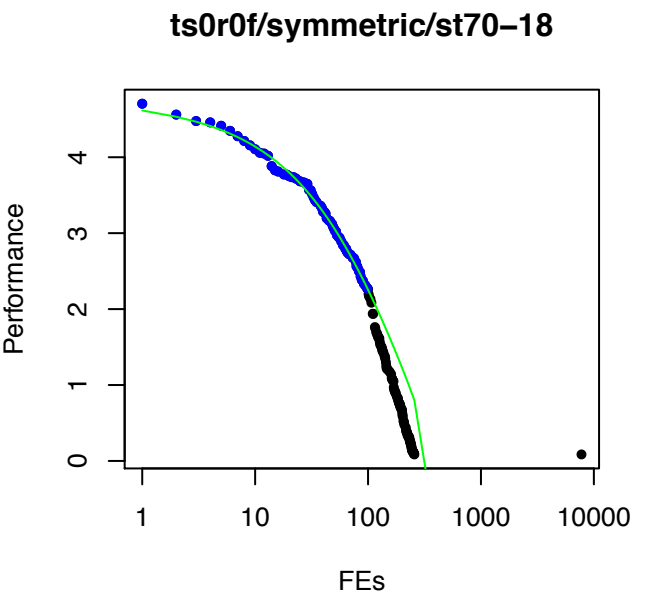
ts0r0f/symmetric/st70−18
Performance
FEs
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4
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1000
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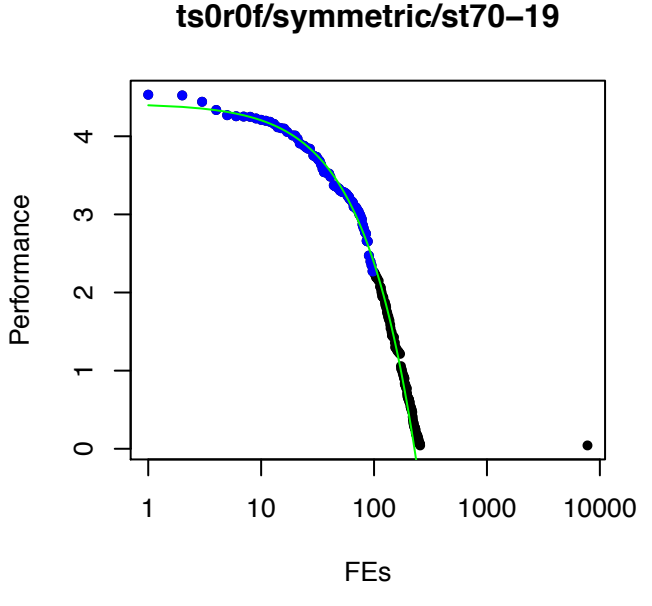
ts0r0f/symmetric/st70−19
Performance
FEs
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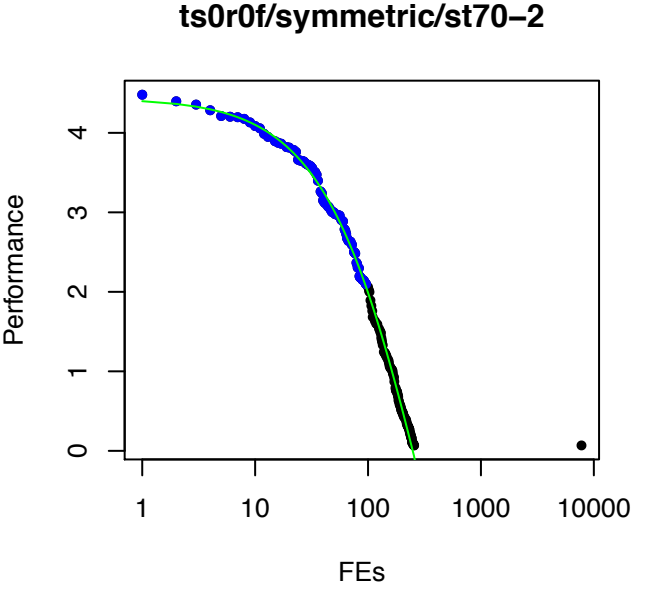
1000
10000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Performance
FEs
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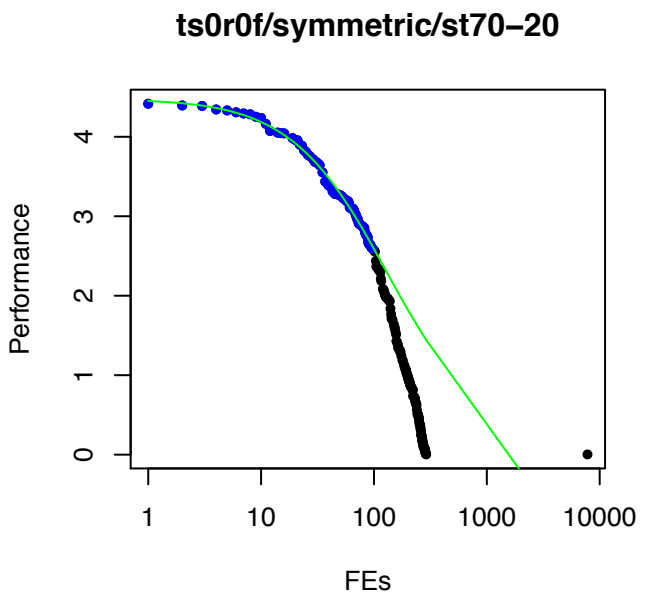
1000
10000


ts0r0f/symmetric/st70−20
Performance
FEs
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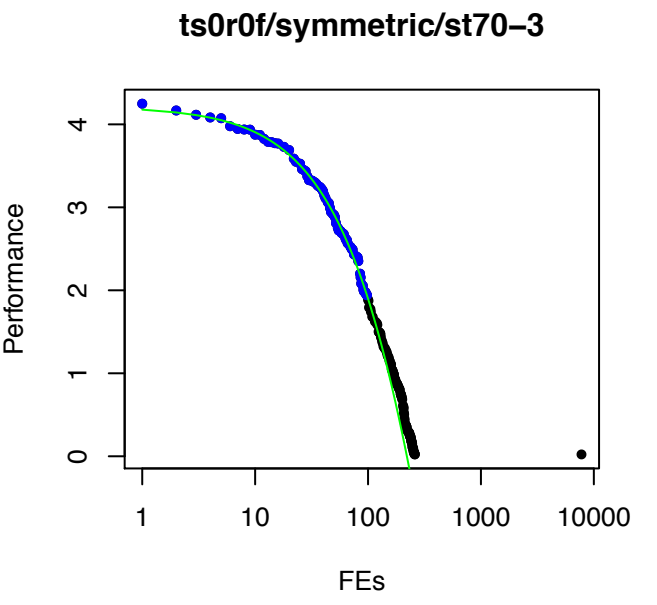
1000
10000


ts0r0f/symmetric/st70−3
Performance
FEs
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2
3
4
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10
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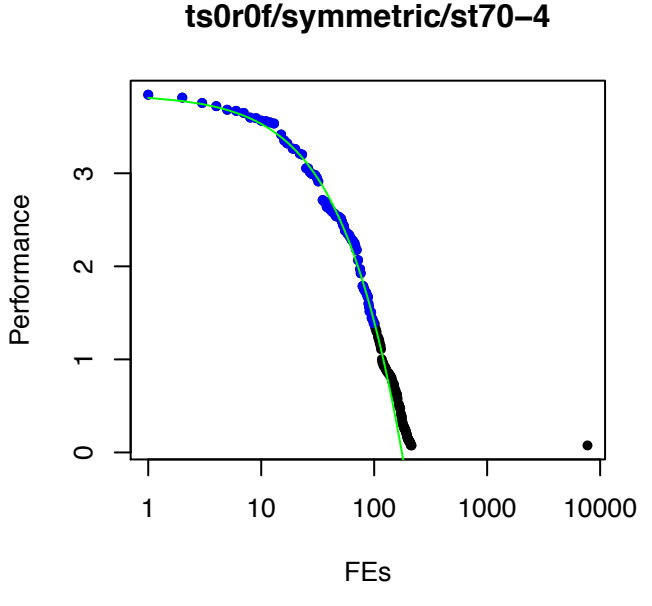
1000
10000


ts0r0f/symmetric/st70−4
Performance
FEs
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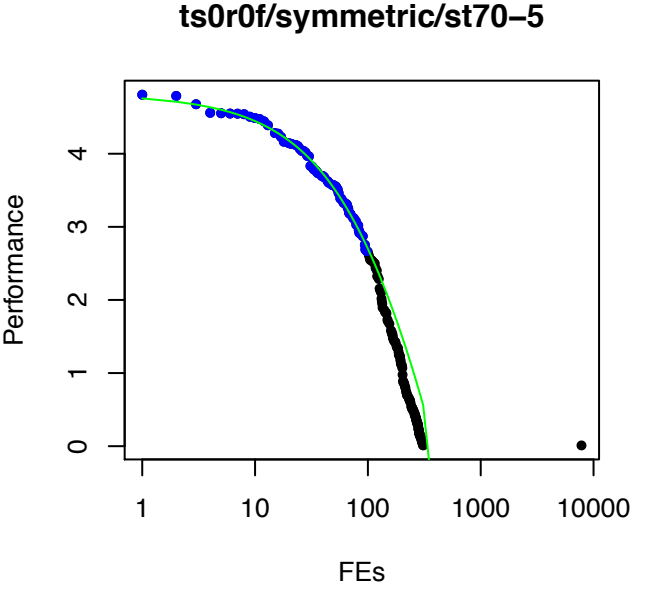
1
2
3
1
10
100
1000
10000


ts0r0f/symmetric/st70−5
Performance
FEs
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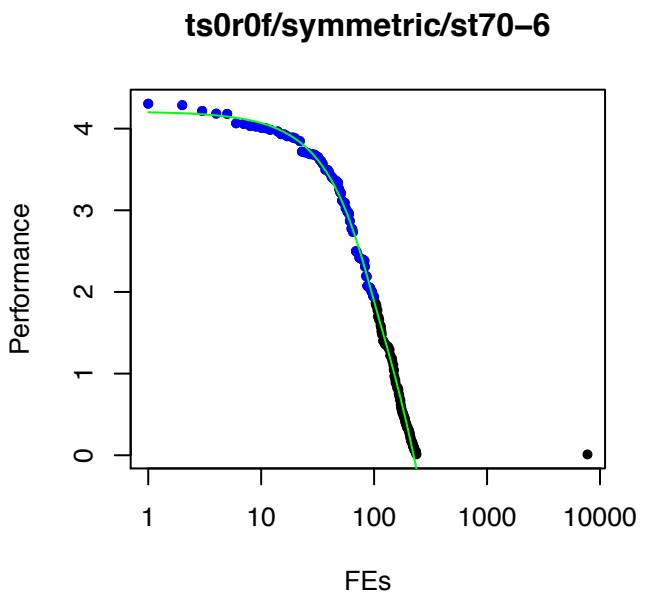
2
3
4
1
10
100
1000
10000


ts0r0f/symmetric/st70−6
Performance
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2
3
4
1
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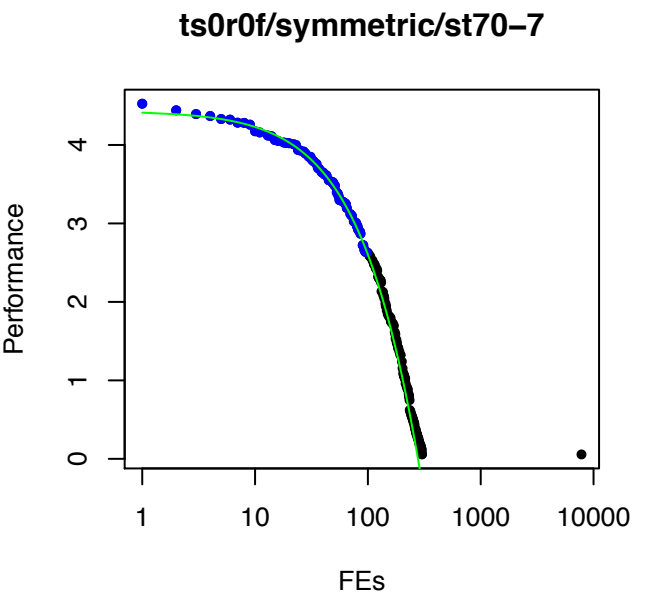
100
1000
10000
FEs


ts0r0f/symmetric/st70−7
Performance
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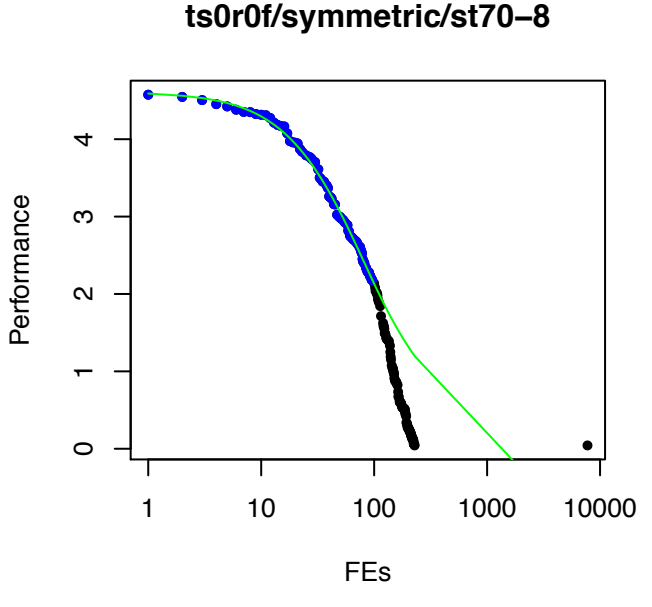
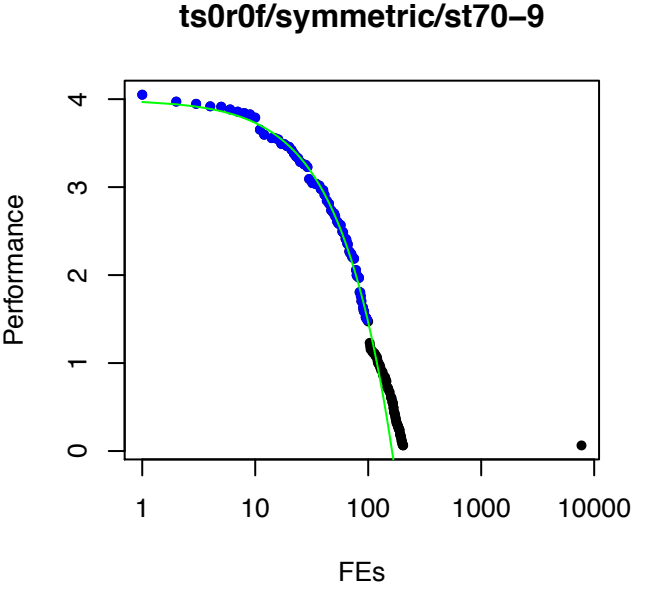
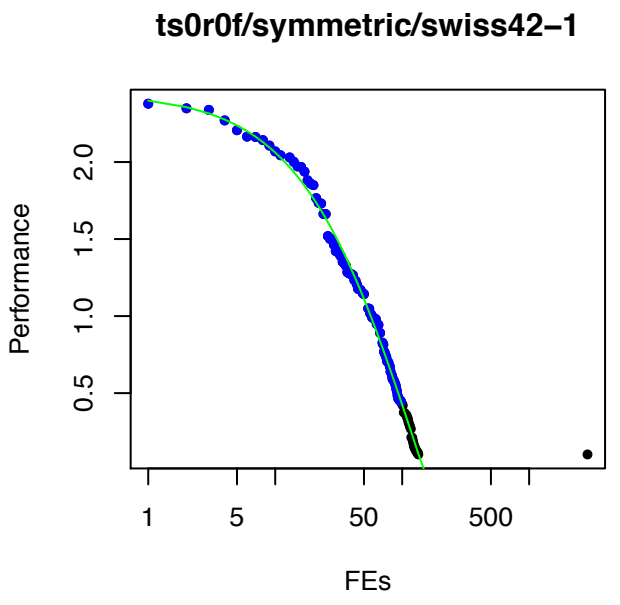
1
2
3
4
1
10
100
1000
10000
FEs


ts0r0f/symmetric/st70−8
Performance
0
1
2
3
4
1
10
100
1000
10000
FEs


ts0r0f/symmetric/st70−9
Performance
0
1
2
3
4
1
10
100
1000
10000
FEs


ts0r0f/symmetric/swiss42−1
Performance
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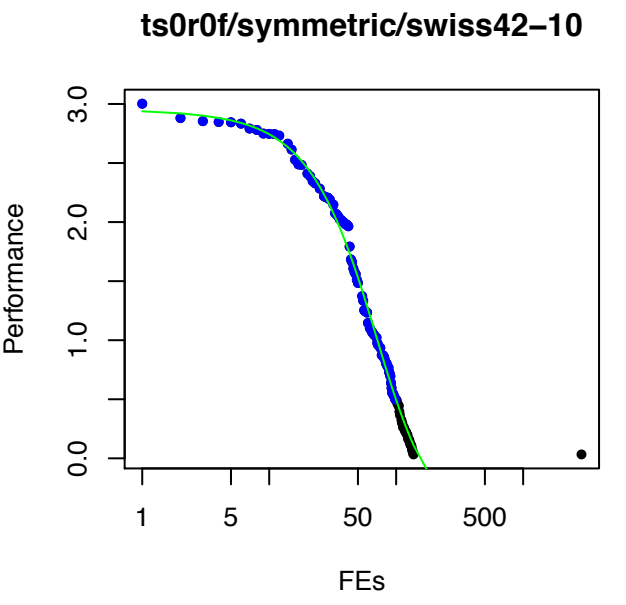
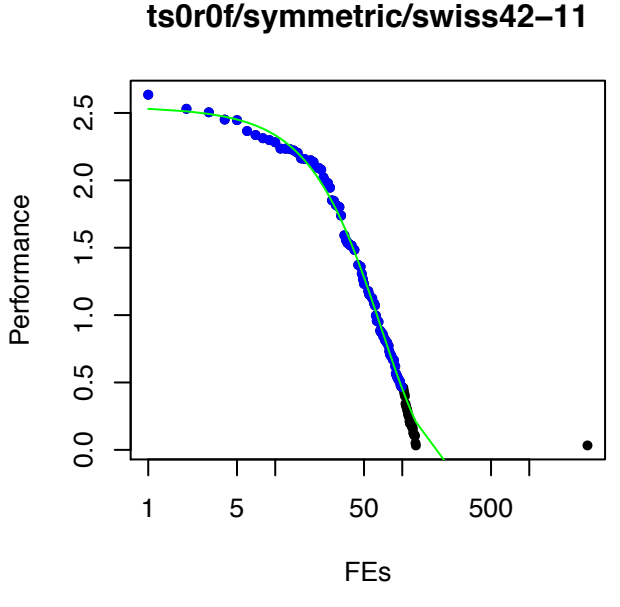
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/swiss42−10
Performance
0.0
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0f/symmetric/swiss42−11
Performance
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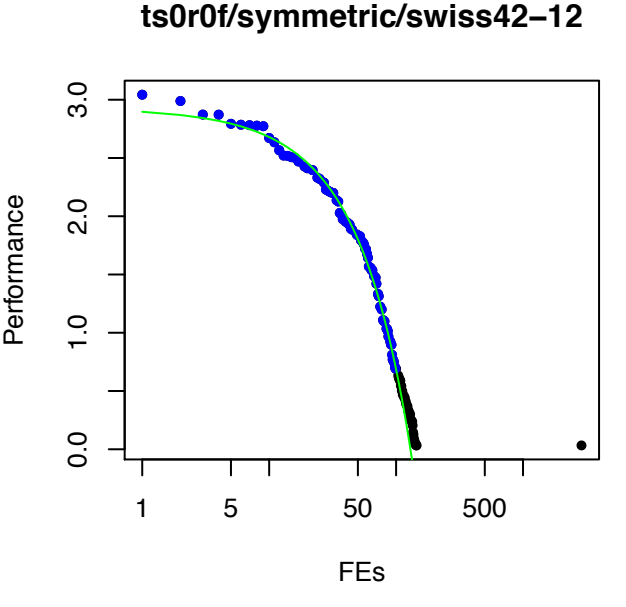
0.5
1.0
1.5
2.0
2.5
1
5
50
500
FEs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Performance
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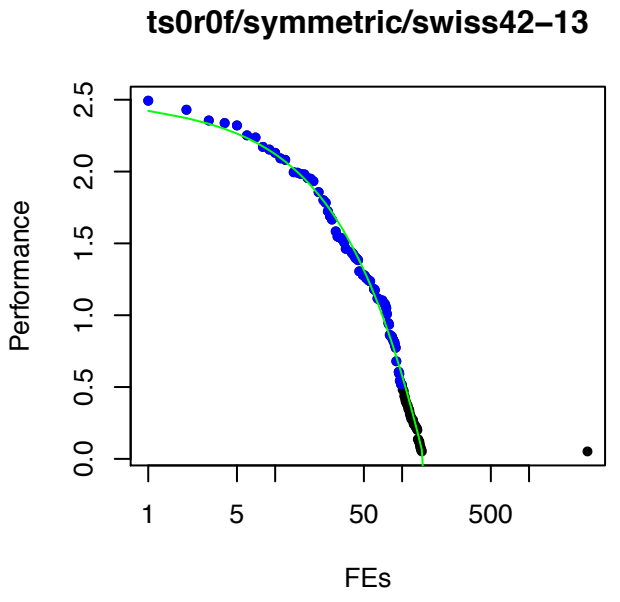
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0f/symmetric/swiss42−13
Performance
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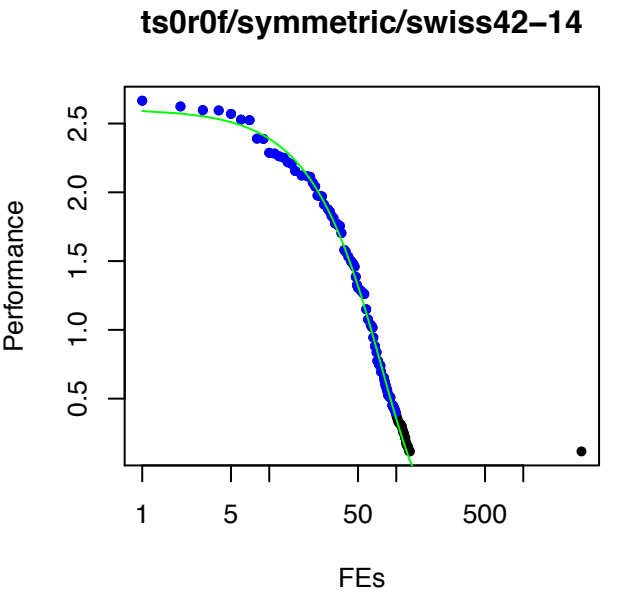
0.5
1.0
1.5
2.0
2.5
1
5
50
500
FEs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Performance
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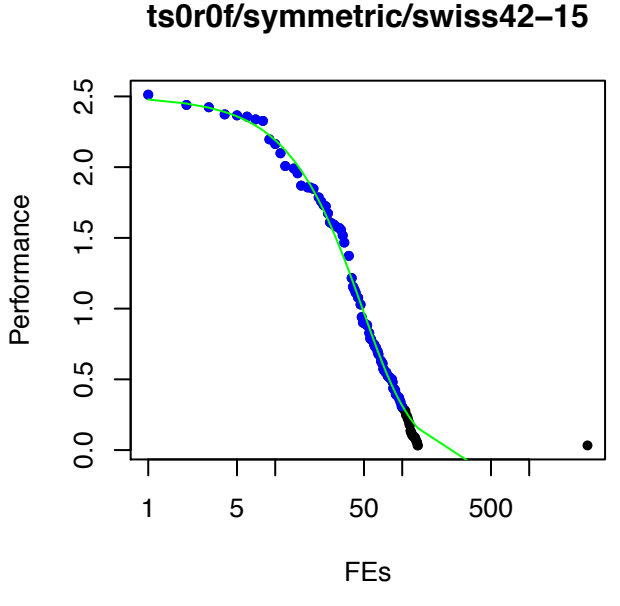
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts0r0f/symmetric/swiss42−15
Performance
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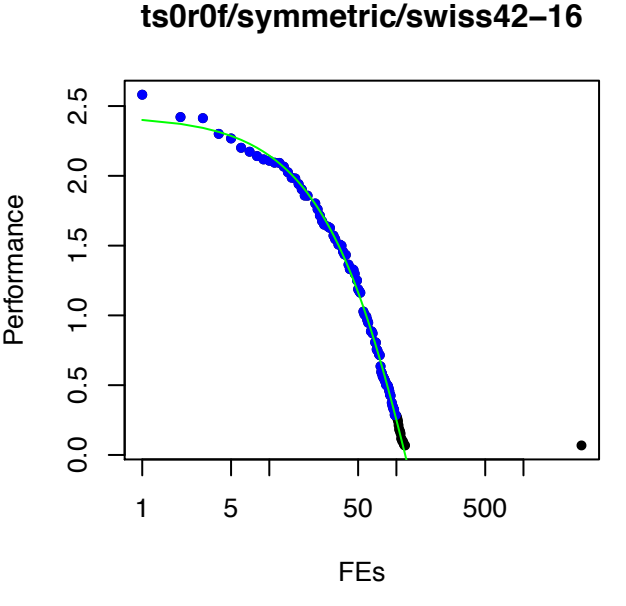
0.5
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts0r0f/symmetric/swiss42−16
Performance
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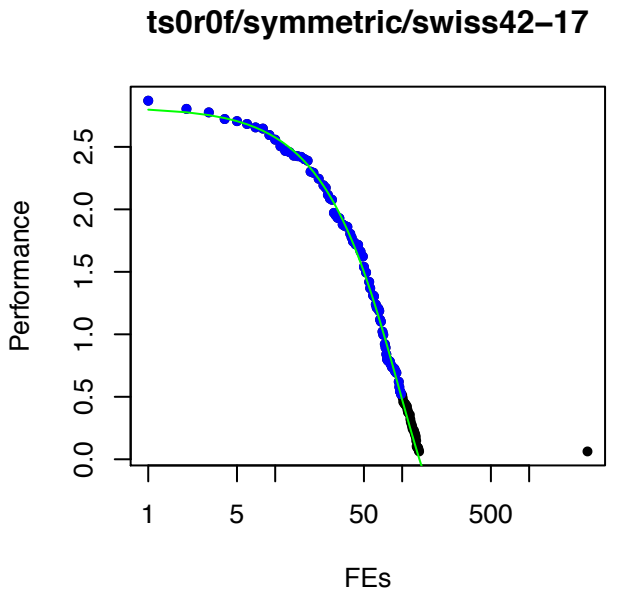
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts0r0f/symmetric/swiss42−17
Performance
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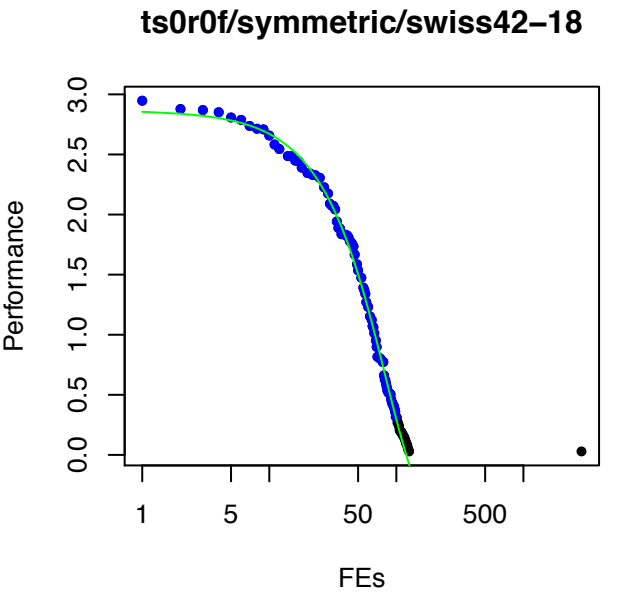
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts0r0f/symmetric/swiss42−18
Performance
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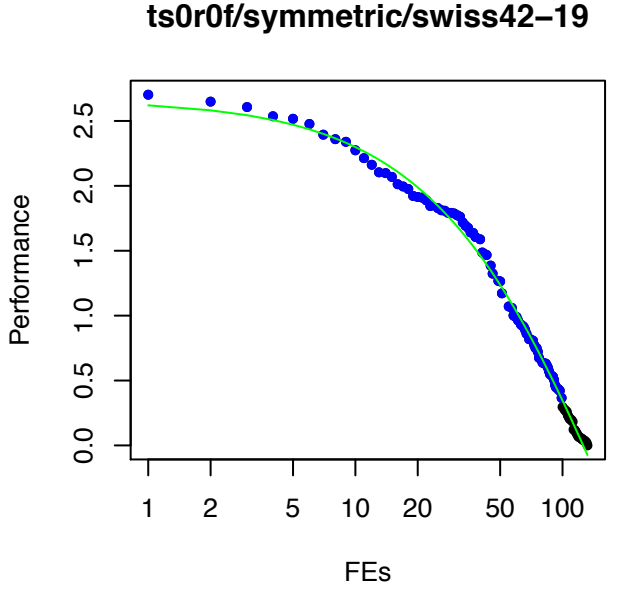
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
500
FEs


ts0r0f/symmetric/swiss42−19
Performance
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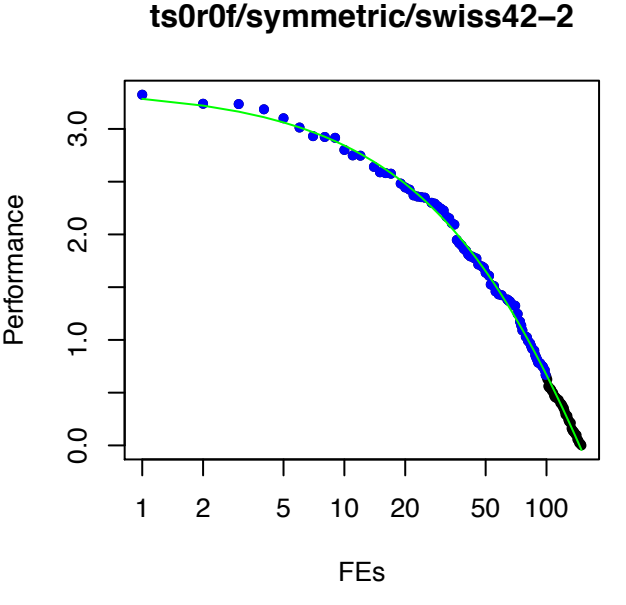
1.5
2.0
2.5
1
2
5
10
20
50
100
FEs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Performance
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1
2
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10
20
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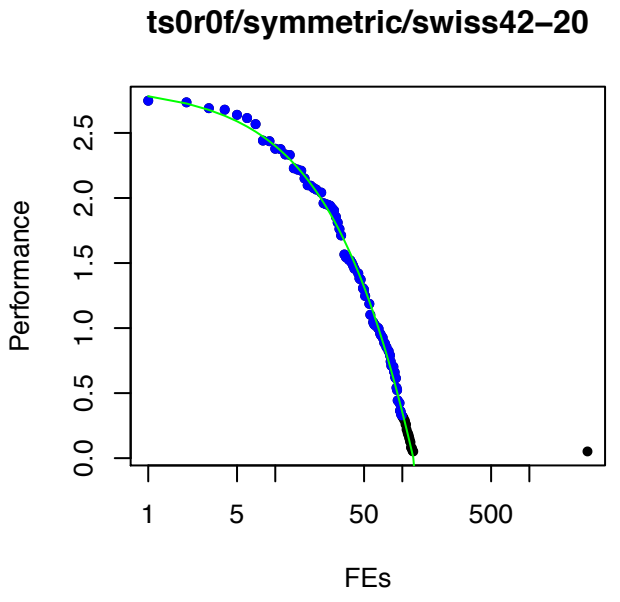
100
FEs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Performance
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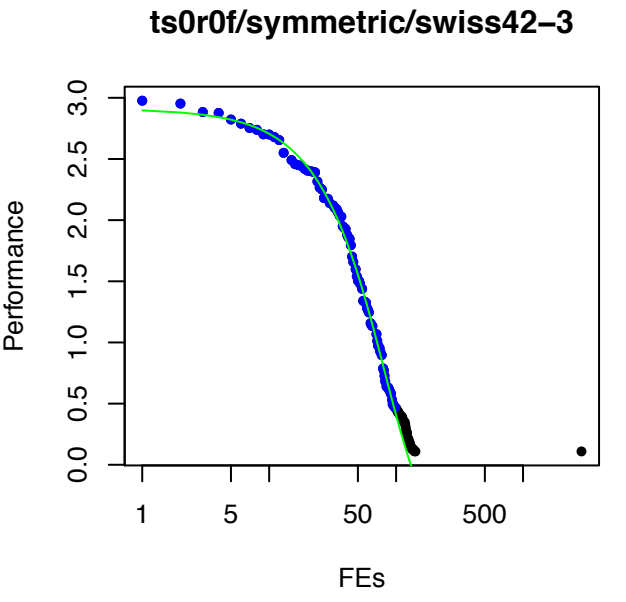
1.5
2.0
2.5
1
5
50
500
FEs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Performance
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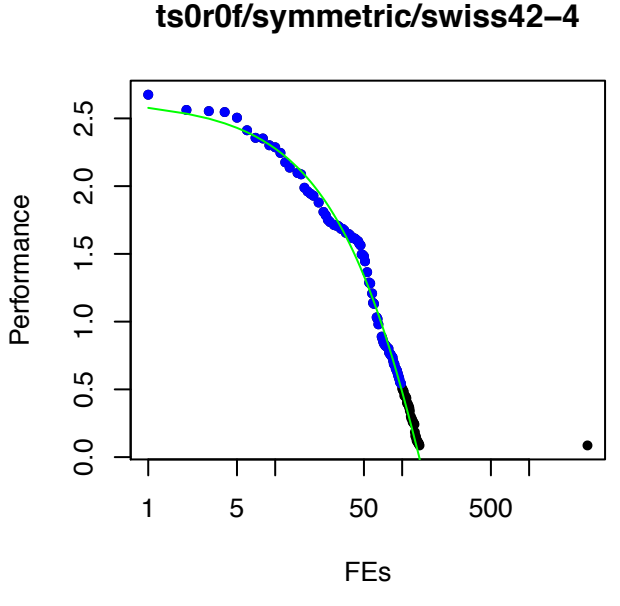
1.0
1.5
2.0
2.5
3.0
1
5
50
500
FEs


ts0r0f/symmetric/swiss42−4
Performance
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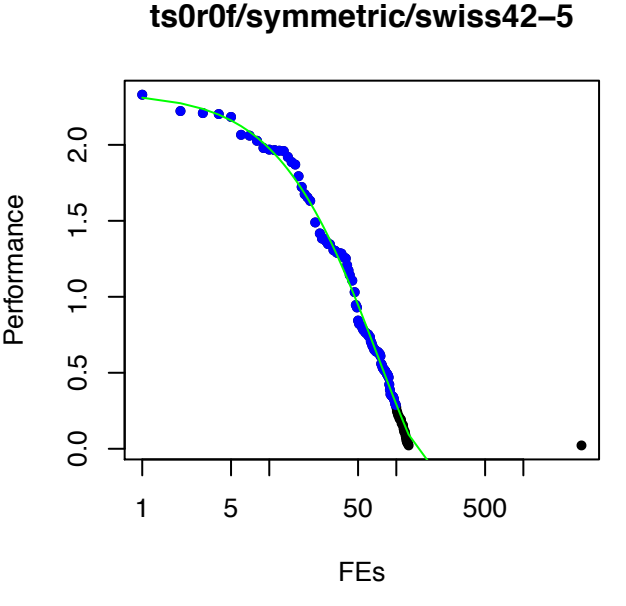
1.5
2.0
2.5
1
5
50
500
FEs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Performance
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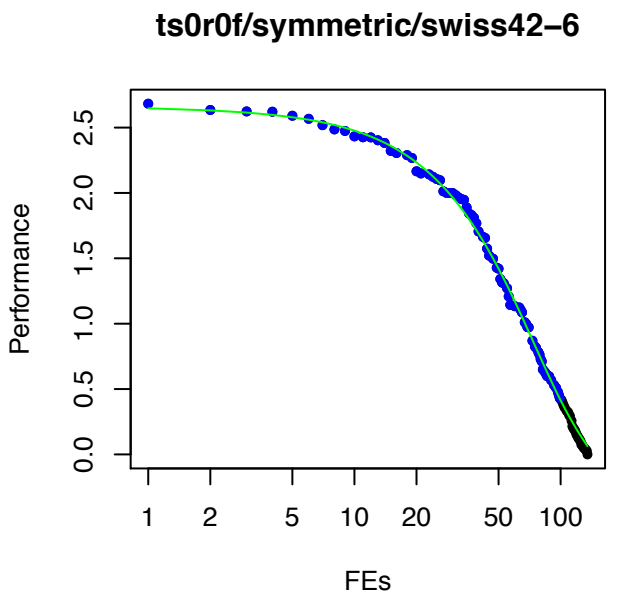
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/swiss42−6
Performance
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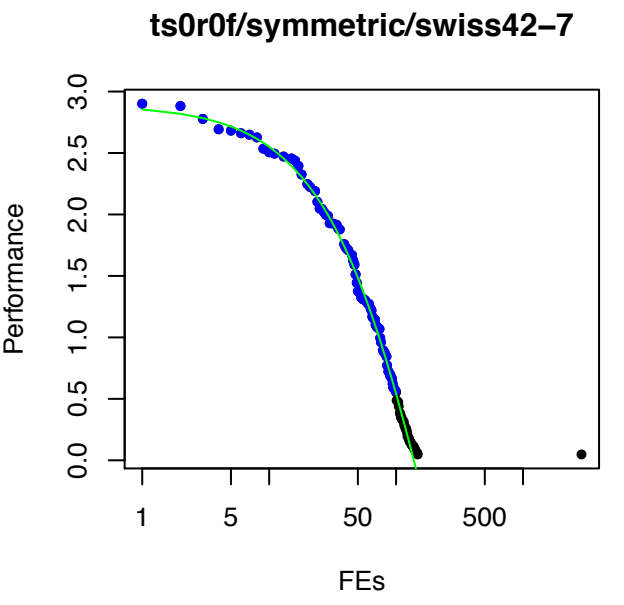
0.5
1.0
1.5
2.0
2.5
1
2
5
10
20
50
100
FEs


ts0r0f/symmetric/swiss42−7
Performance
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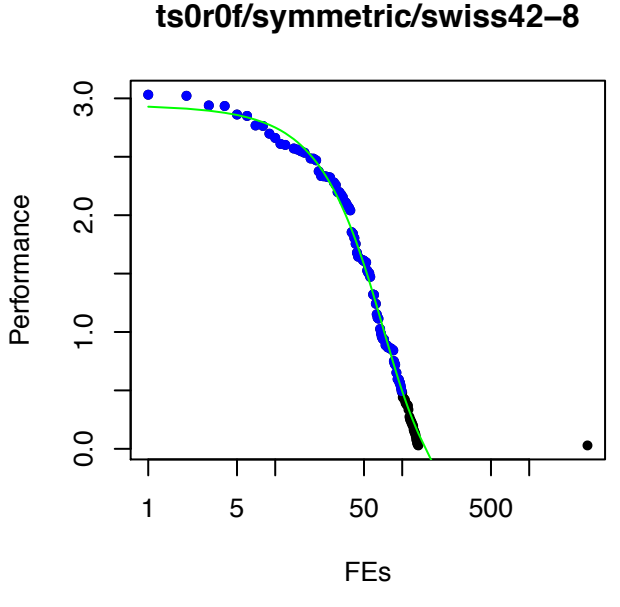
1.0
1.5
2.0
2.5
3.0
1
5
50
500
FEs


ts0r0f/symmetric/swiss42−8
Performance
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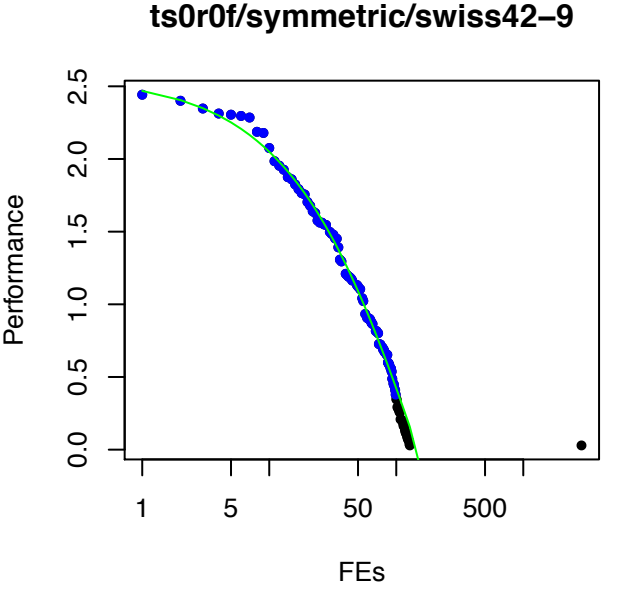
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0f/symmetric/swiss42−9
Performance
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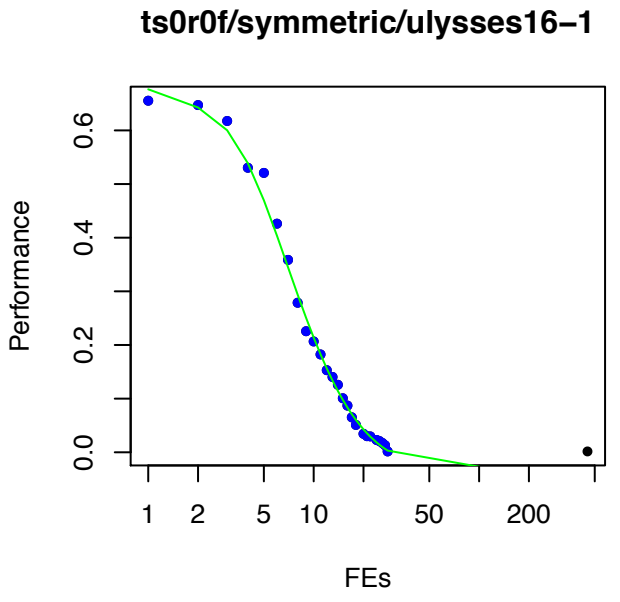
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts0r0f/symmetric/ulysses16−1
Performance
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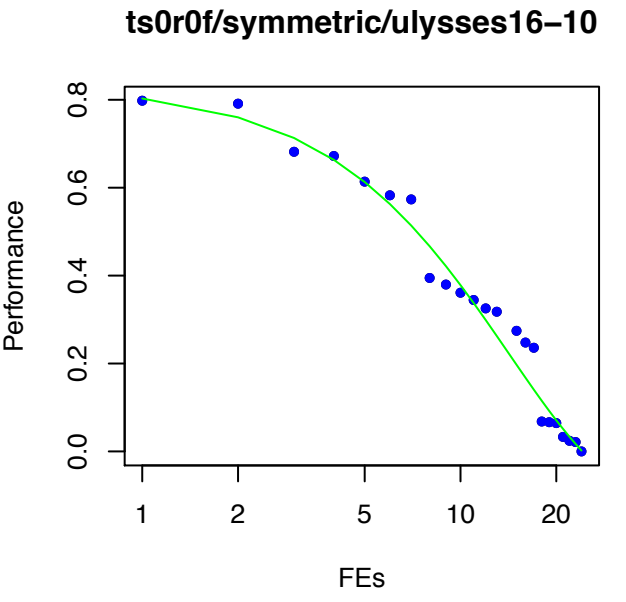
0.2
0.4
0.6
1
2
5
10
50
200
FEs


ts0r0f/symmetric/ulysses16−10
Performance
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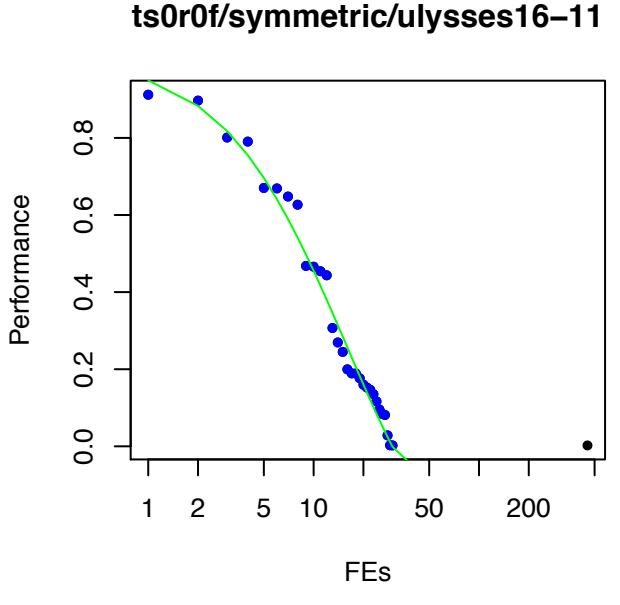
0.2
0.4
0.6
0.8
1
2
5
10
20
FEs


ts0r0f/symmetric/ulysses16−11
Performance
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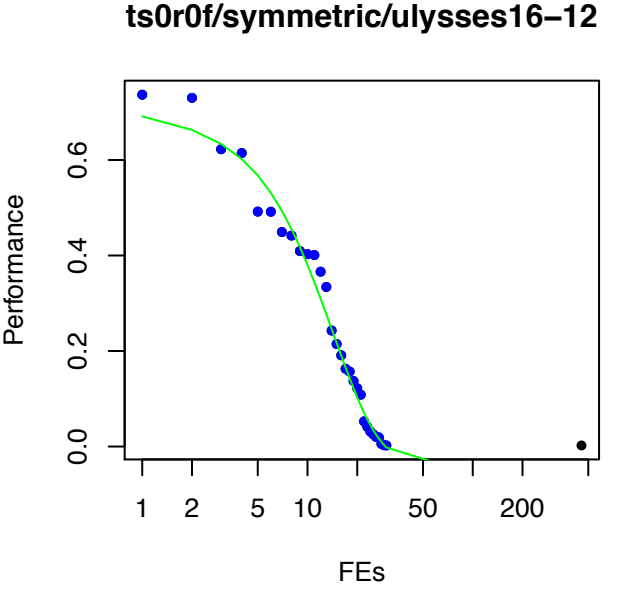
0.2
0.4
0.6
0.8
1
2
5
10
50
200
FEs


ts0r0f/symmetric/ulysses16−12
Performance
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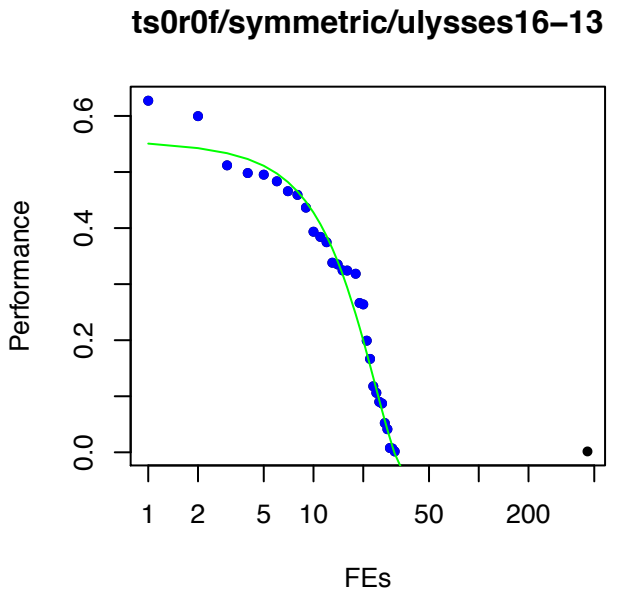
0.2
0.4
0.6
1
2
5
10
50
200
FEs


ts0r0f/symmetric/ulysses16−13
Performance
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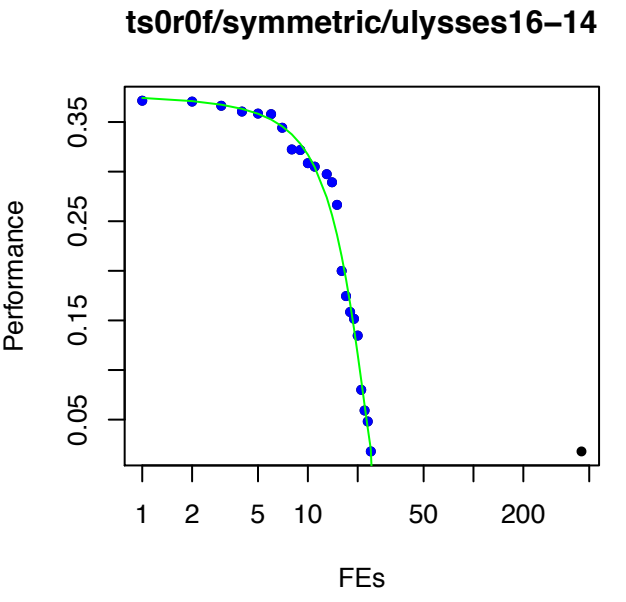
0.2
0.4
0.6
1
2
5
10
50
200
FEs


ts0r0f/symmetric/ulysses16−14
Performance
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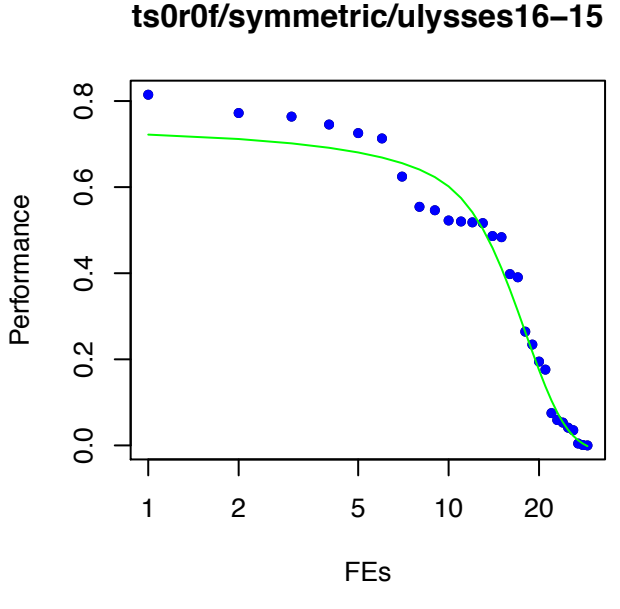
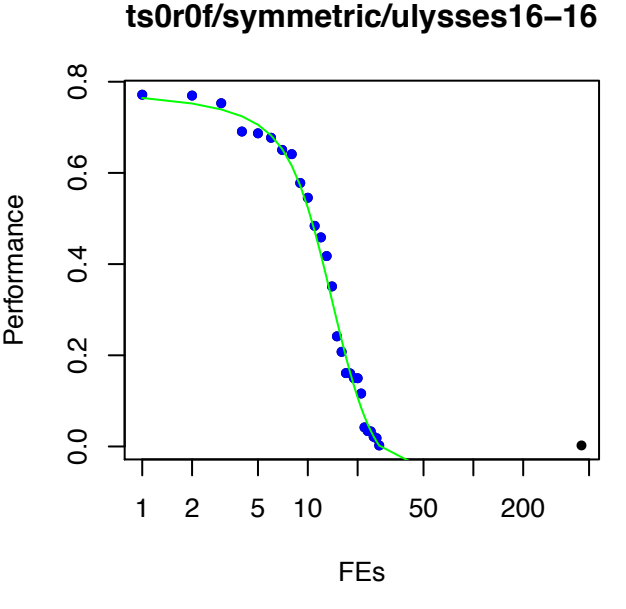
0.15
0.25
0.35
1
2
5
10
50
200
FEs


ts0r0f/symmetric/ulysses16−15
Performance
0.0
0.2
0.4
0.6
0.8
1
2
5
10
20
FEs


ts0r0f/symmetric/ulysses16−16
Performance
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0.2
0.4
0.6
0.8
1
2
5
10
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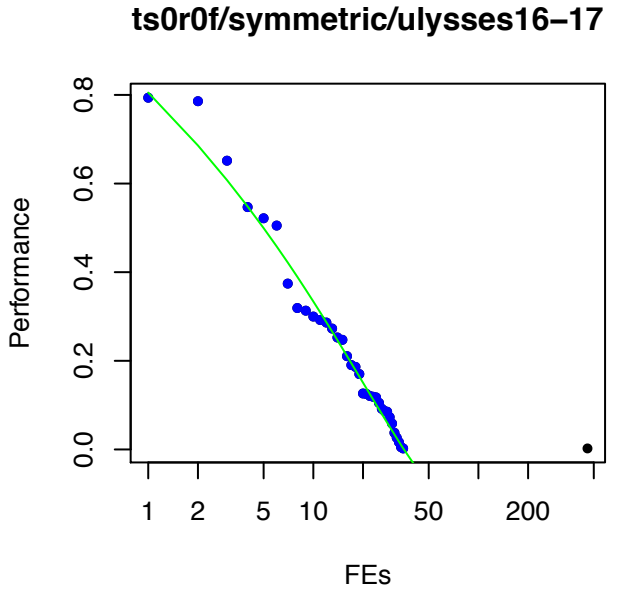
200
FEs


ts0r0f/symmetric/ulysses16−17
Performance
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0.4
0.6
0.8
1
2
5
10
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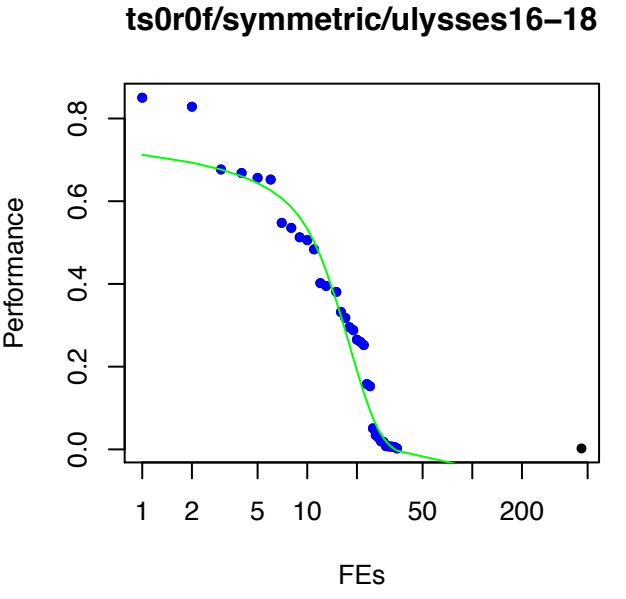
200
FEs


ts0r0f/symmetric/ulysses16−18
Performance
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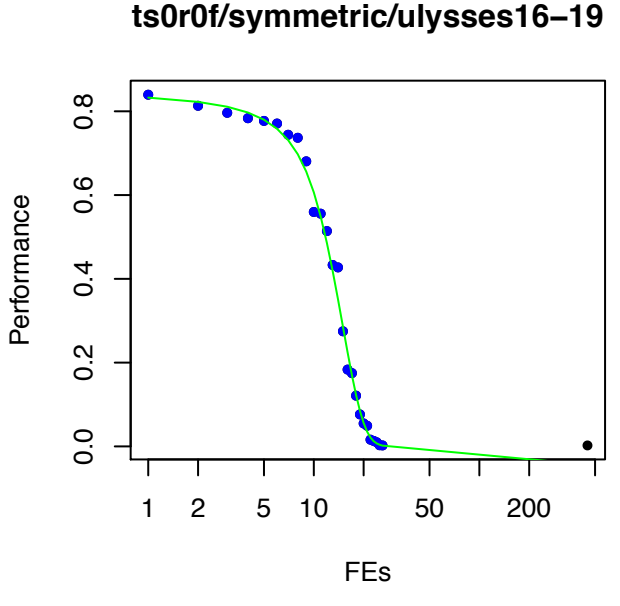
0.4
0.6
0.8
1
2
5
10
50
200
FEs


ts0r0f/symmetric/ulysses16−19
Performance
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0.4
0.6
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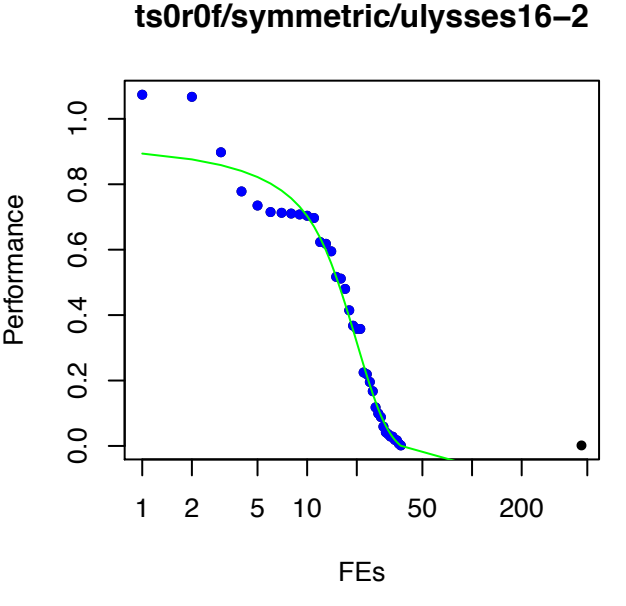
1
2
5
10
50
200
FEs


ts0r0f/symmetric/ulysses16−2
Performance
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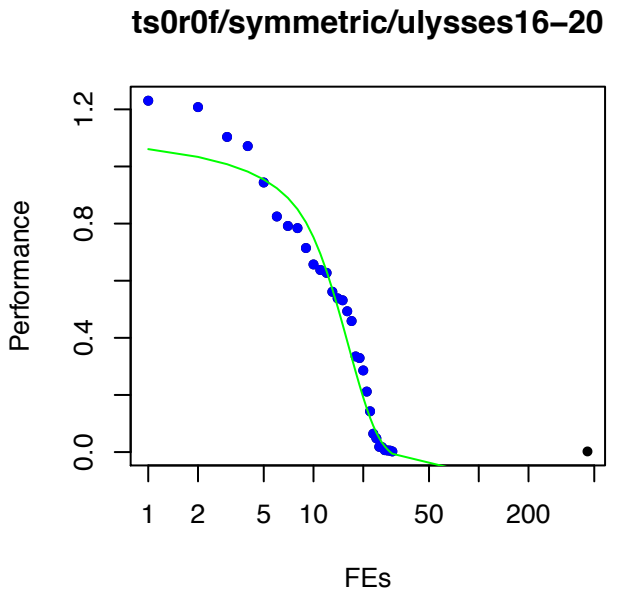
0.2
0.4
0.6
0.8
1.0
1
2
5
10
50
200
FEs


ts0r0f/symmetric/ulysses16−20
Performance
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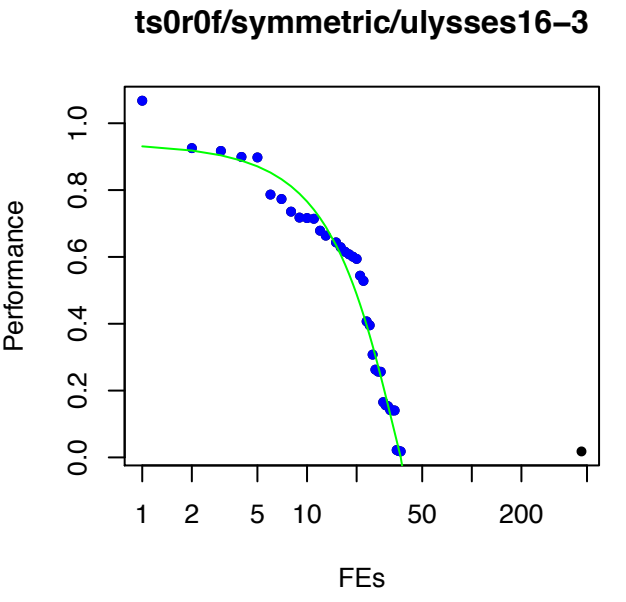
0.4
0.8
1.2
1
2
5
10
50
200
FEs


ts0r0f/symmetric/ulysses16−3
Performance
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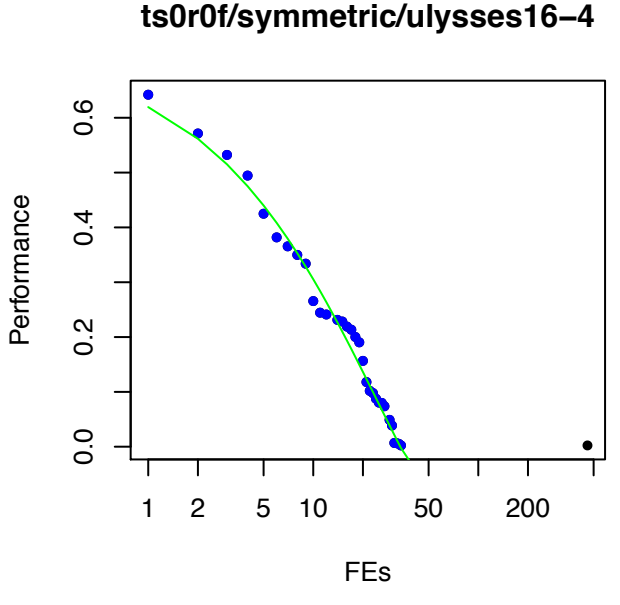
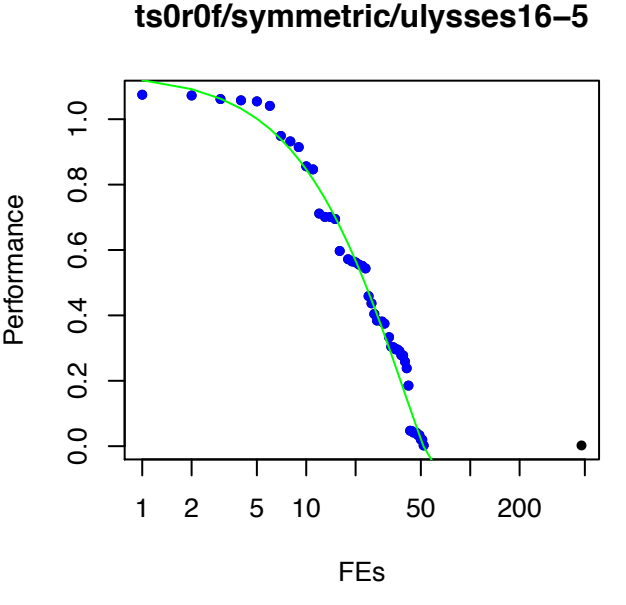
0.2
0.4
0.6
0.8
1.0
1
2
5
10
50
200
FEs


ts0r0f/symmetric/ulysses16−4
Performance
0.0
0.2
0.4
0.6
1
2
5
10
50
200
FEs


ts0r0f/symmetric/ulysses16−5
Performance
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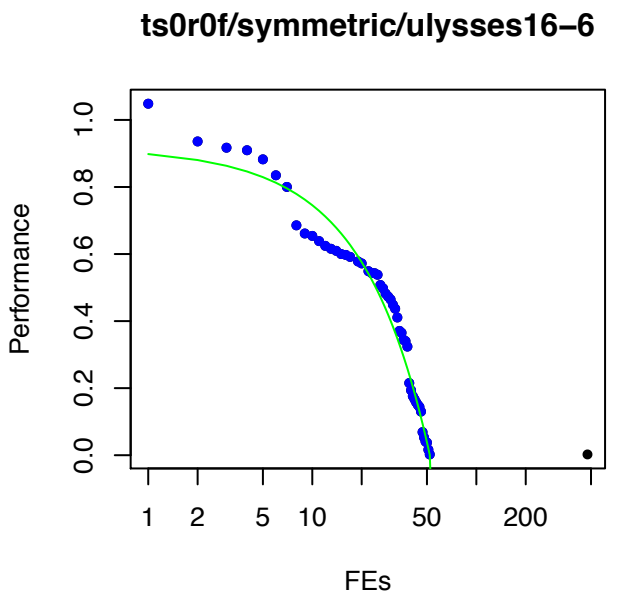
0.2
0.4
0.6
0.8
1.0
1
2
5
10
50
200
FEs


ts0r0f/symmetric/ulysses16−6
Performance
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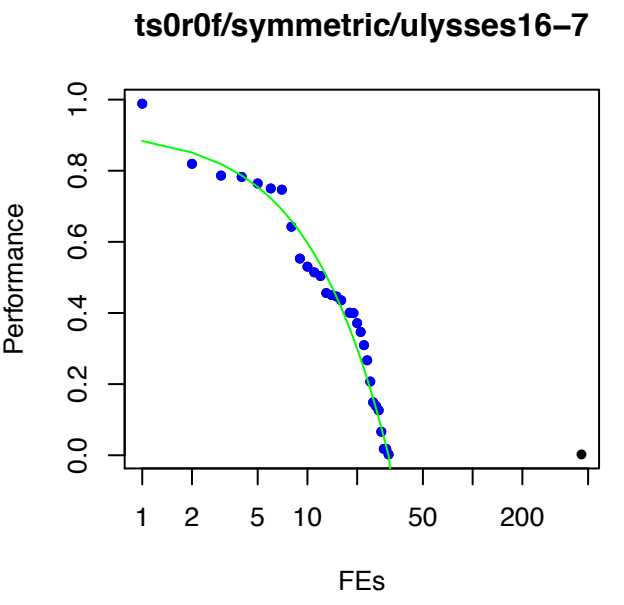
0.2
0.4
0.6
0.8
1.0
1
2
5
10
50
200
FEs


ts0r0f/symmetric/ulysses16−7
Performance
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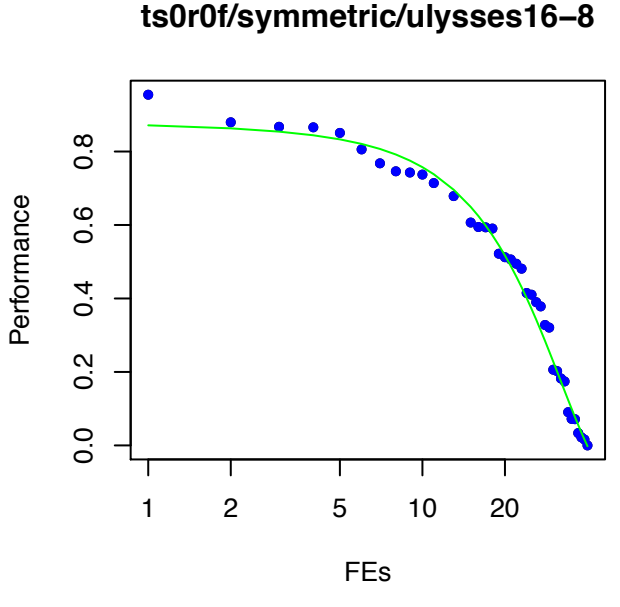
0.2
0.4
0.6
0.8
1.0
1
2
5
10
50
200
FEs


ts0r0f/symmetric/ulysses16−8
Performance
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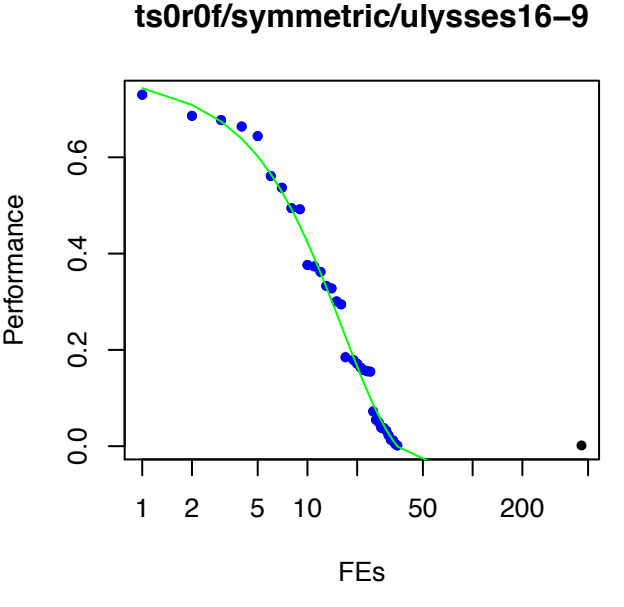
0.2
0.4
0.6
0.8
1
2
5
10
20
FEs


ts0r0f/symmetric/ulysses16−9
Performance
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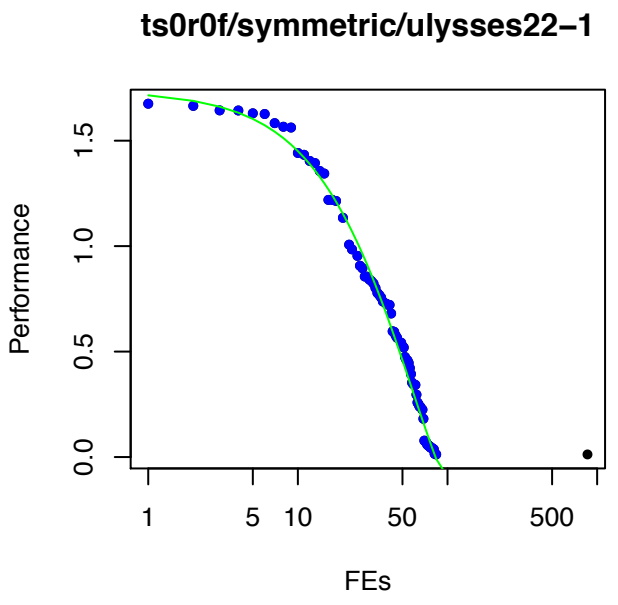
0.2
0.4
0.6
1
2
5
10
50
200
FEs


ts0r0f/symmetric/ulysses22−1
Performance
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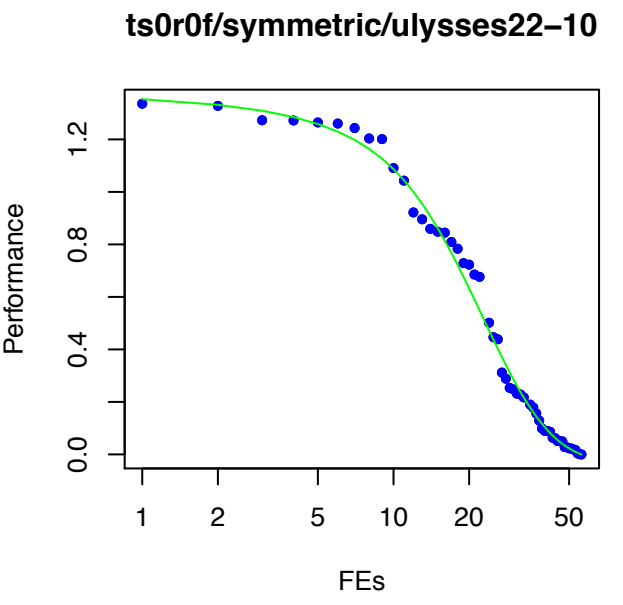
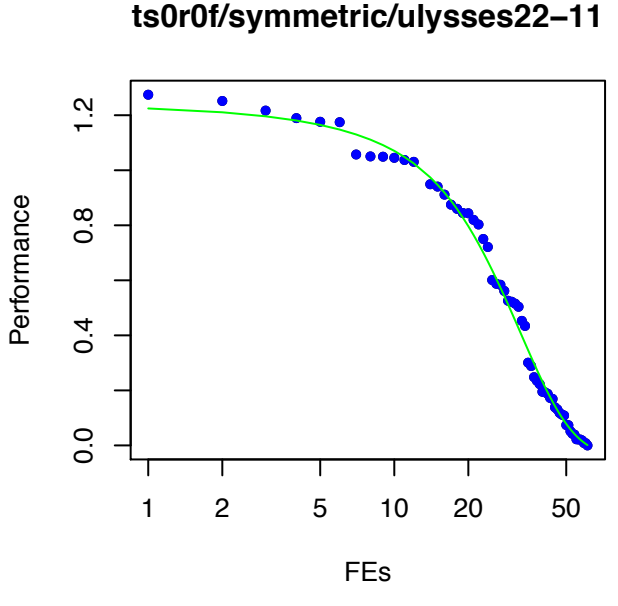
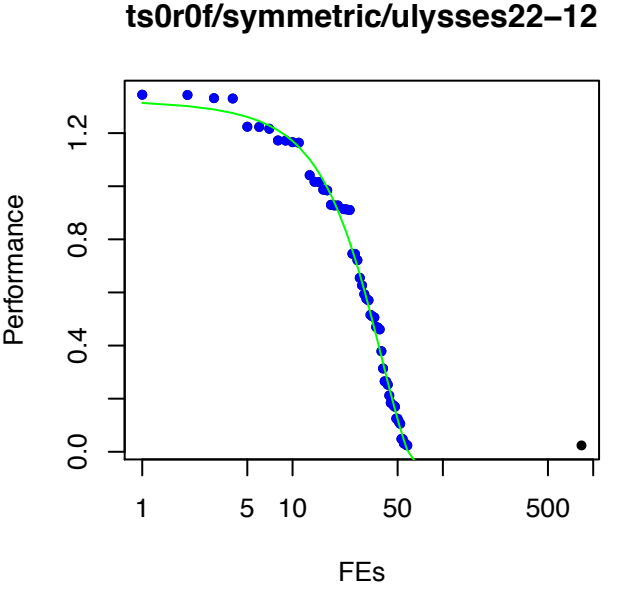
0.5
1.0
1.5
1
5
10
50
500
FEs


ts0r0f/symmetric/ulysses22−10
Performance
0.0
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts0r0f/symmetric/ulysses22−11
Performance
0.0
0.4
0.8
1.2
1
2
5
10
20
50
FEs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Performance
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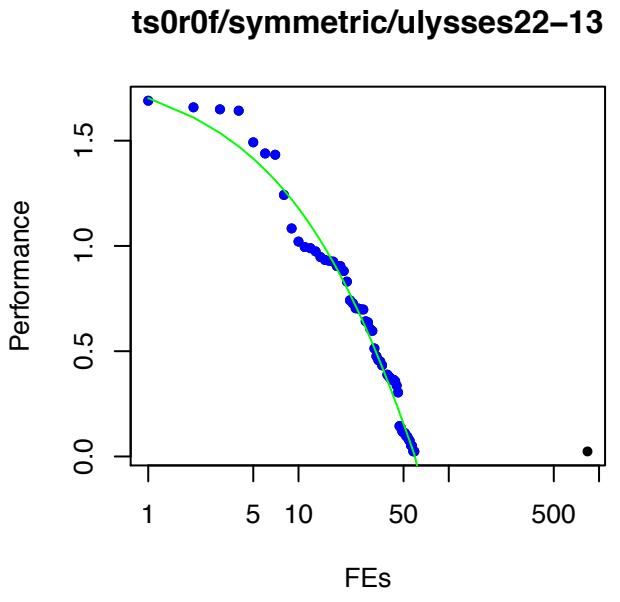
0.8
1.2
1
5
10
50
500
FEs


ts0r0f/symmetric/ulysses22−13
Performance
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0.5
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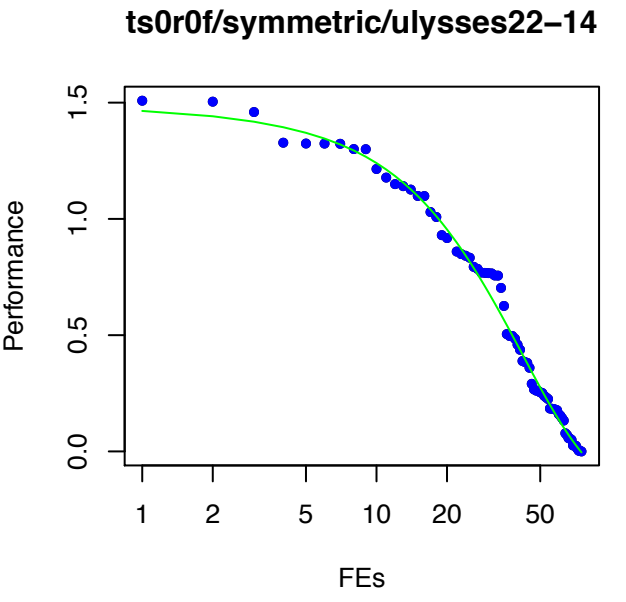
1
5
10
50
500
FEs


ts0r0f/symmetric/ulysses22−14
Performance
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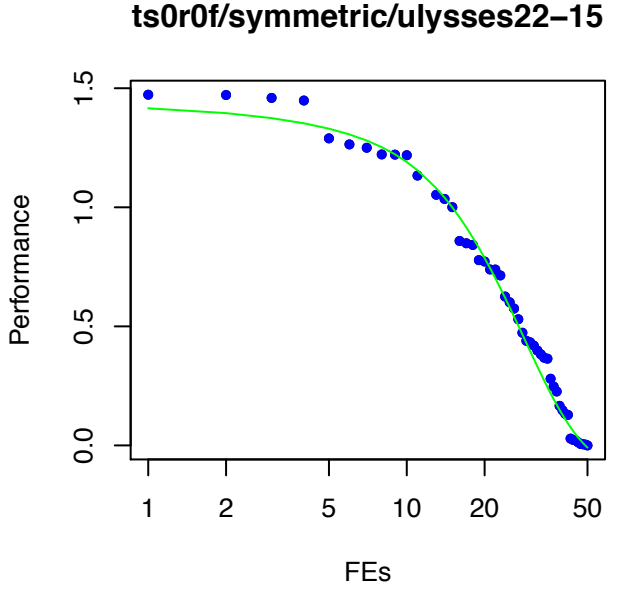
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts0r0f/symmetric/ulysses22−15
Performance
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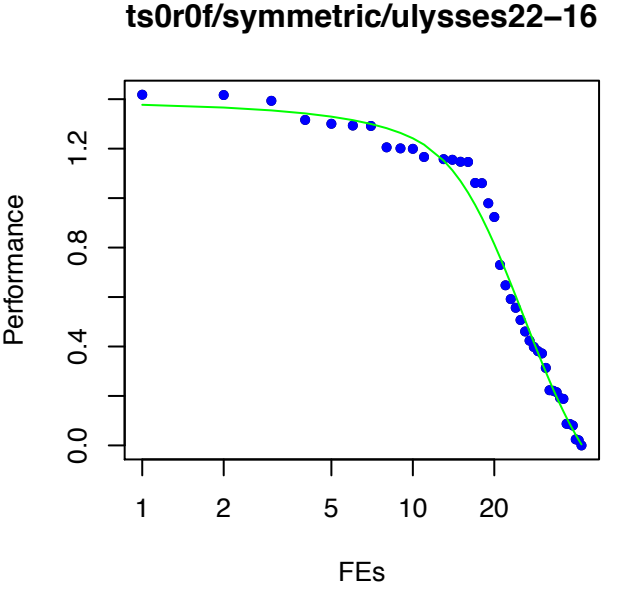
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts0r0f/symmetric/ulysses22−16
Performance
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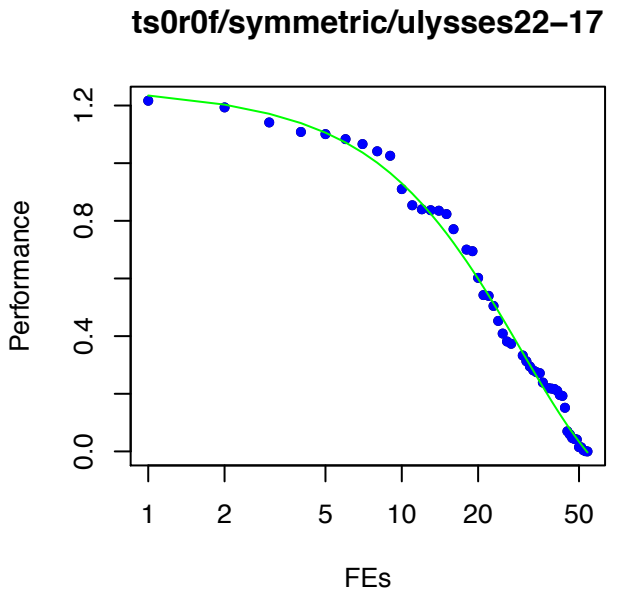
0.8
1.2
1
2
5
10
20
FEs


ts0r0f/symmetric/ulysses22−17
Performance
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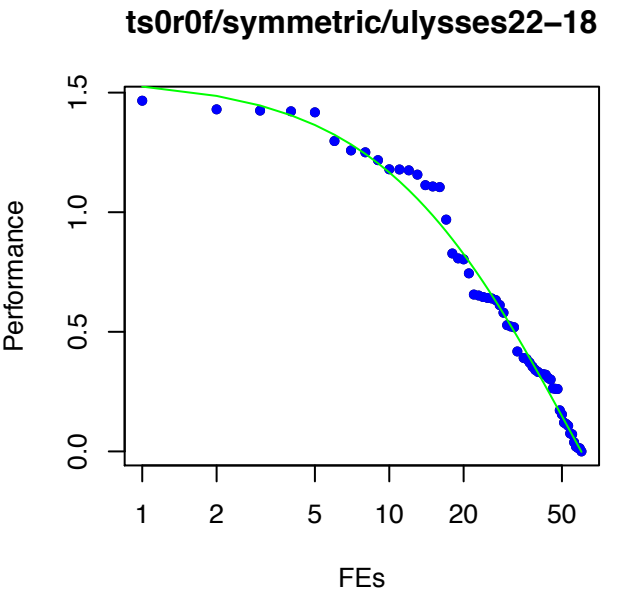
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts0r0f/symmetric/ulysses22−18
Performance
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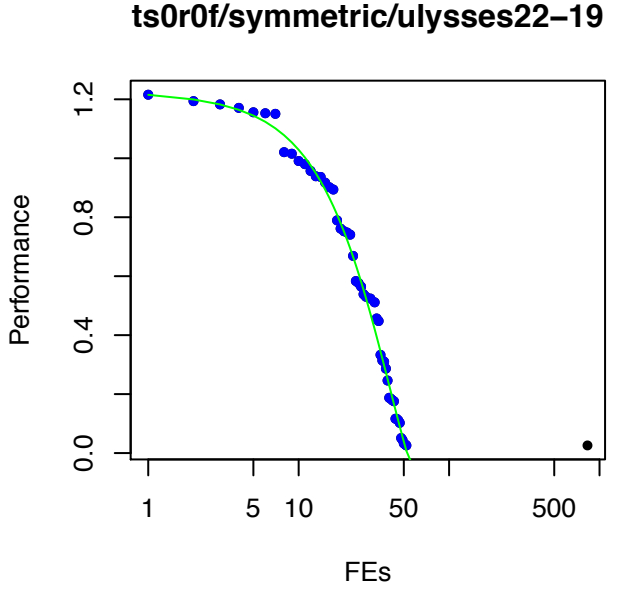
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts0r0f/symmetric/ulysses22−19
Performance
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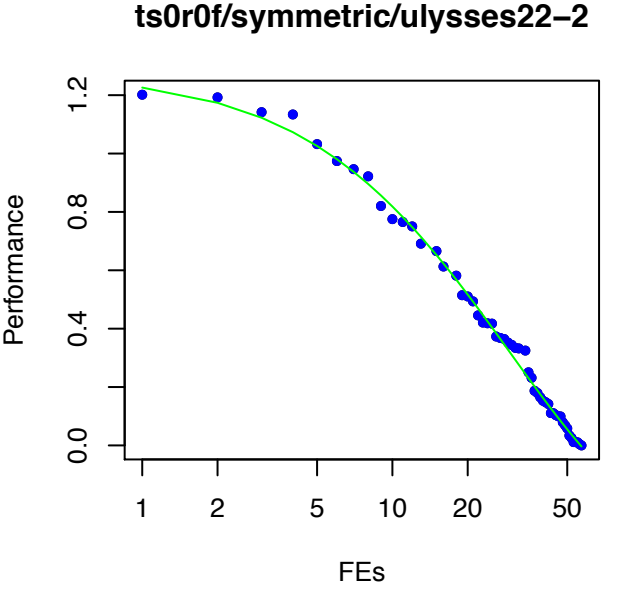
0.8
1.2
1
5
10
50
500
FEs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Performance
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1
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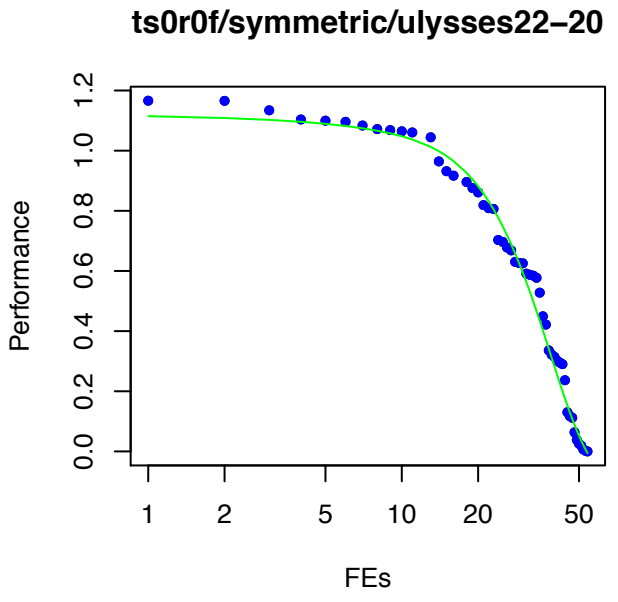
10
20
50
FEs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Performance
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0.8
1.0
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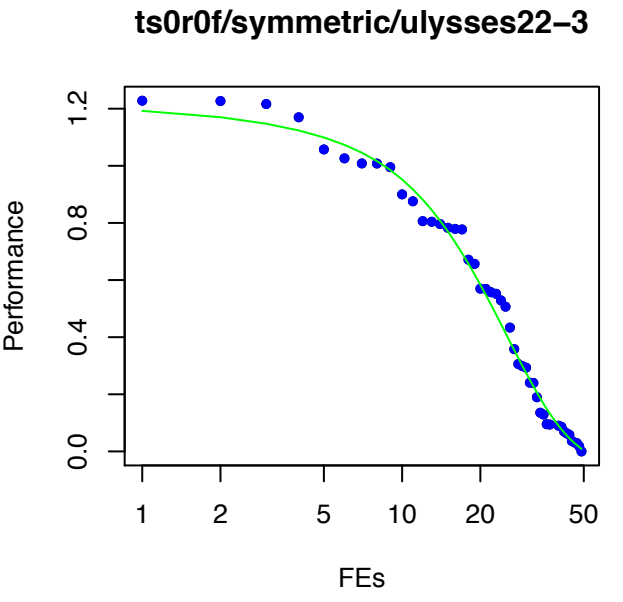
1
2
5
10
20
50
FEs


ts0r0f/symmetric/ulysses22−3
Performance
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0.8
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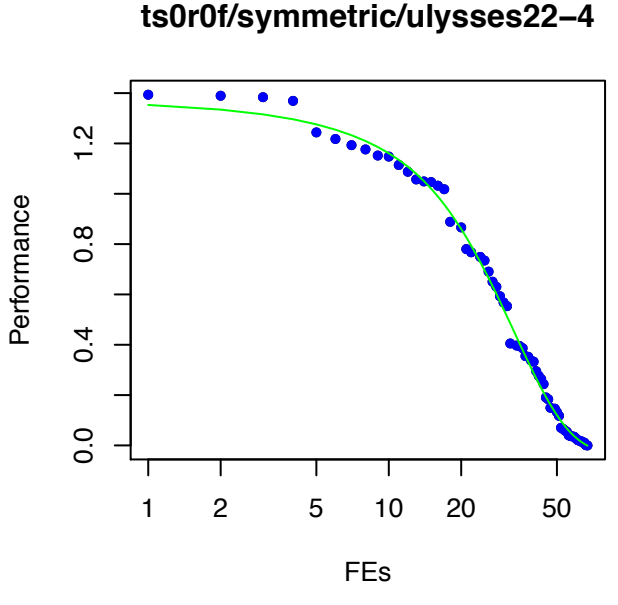
1
2
5
10
20
50
FEs


ts0r0f/symmetric/ulysses22−4
Performance
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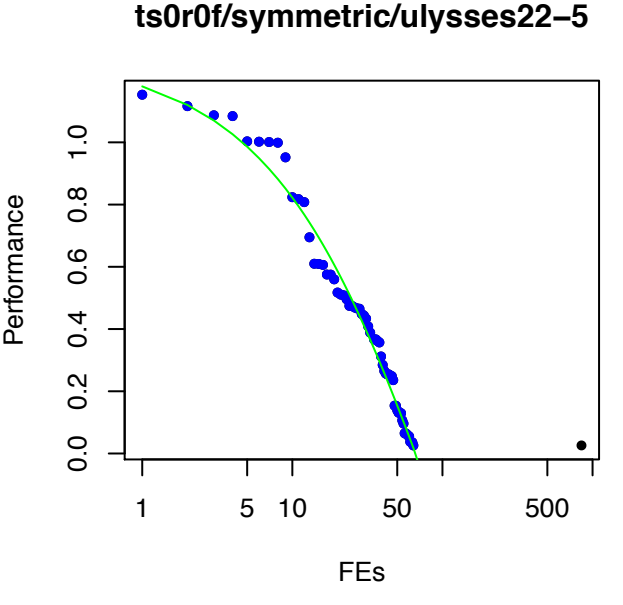
0.8
1.2
1
2
5
10
20
50
FEs


ts0r0f/symmetric/ulysses22−5
Performance
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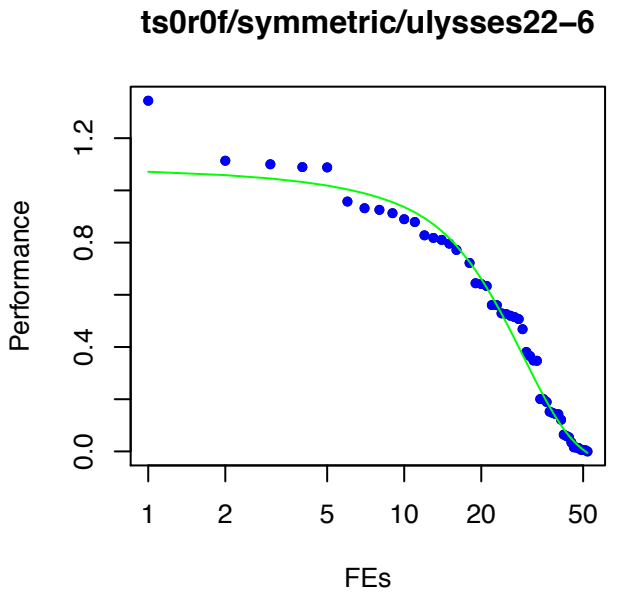
0.4
0.6
0.8
1.0
1
5
10
50
500
FEs


ts0r0f/symmetric/ulysses22−6
Performance
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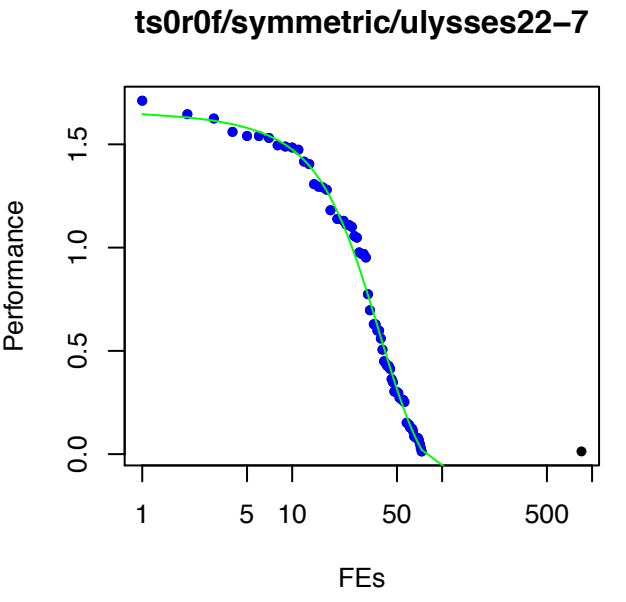
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts0r0f/symmetric/ulysses22−7
Performance
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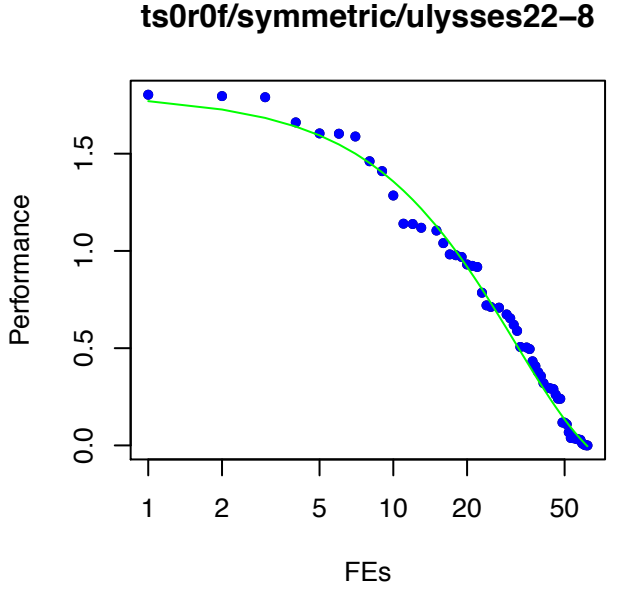
0.5
1.0
1.5
1
5
10
50
500
FEs


ts0r0f/symmetric/ulysses22−8
Performance
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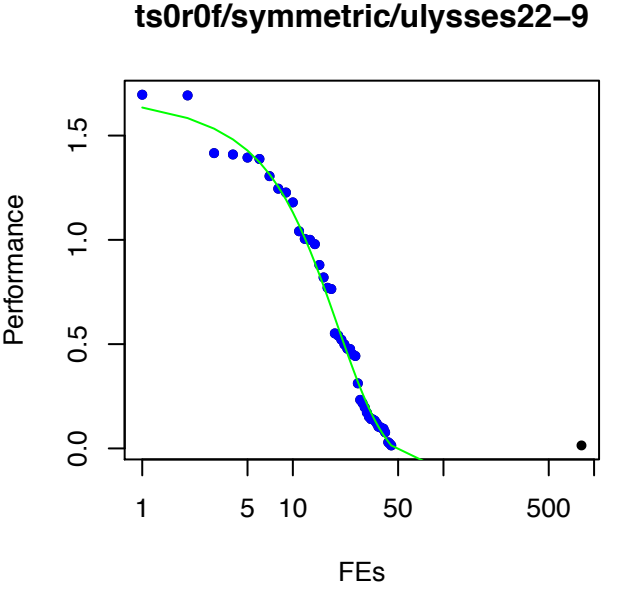
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts0r0f/symmetric/ulysses22−9
Performance
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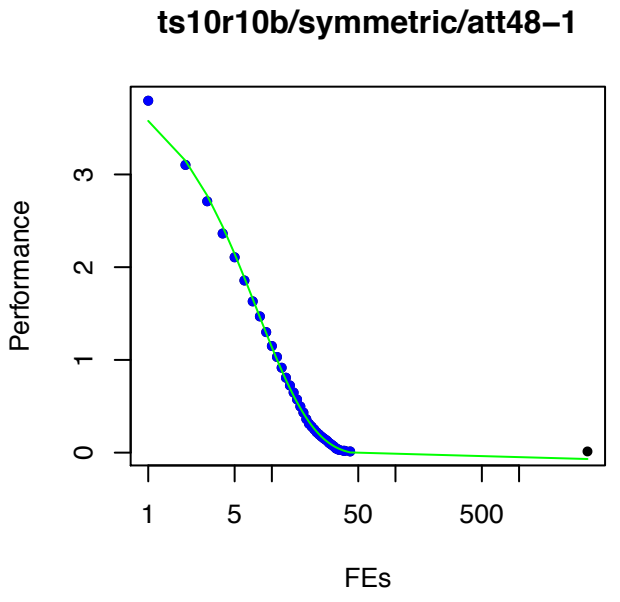
0.5
1.0
1.5
1
5
10
50
500
FEs


ts10r10b/symmetric/att48−1
Performance
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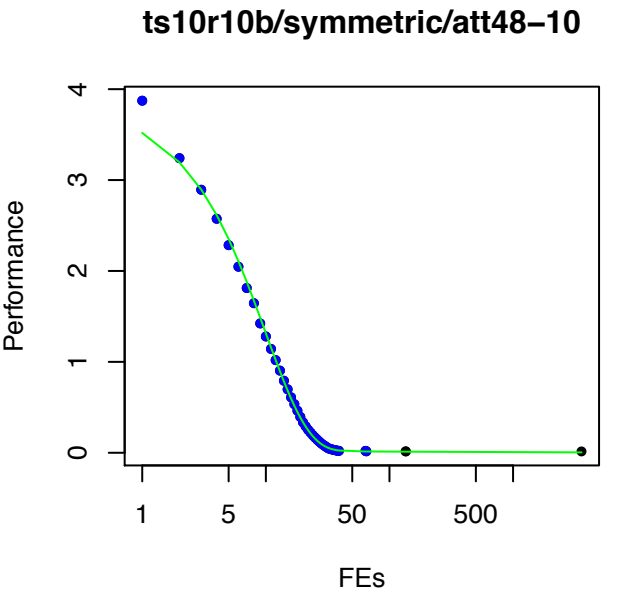
1
2
3
1
5
50
500
FEs


ts10r10b/symmetric/att48−10
Performance
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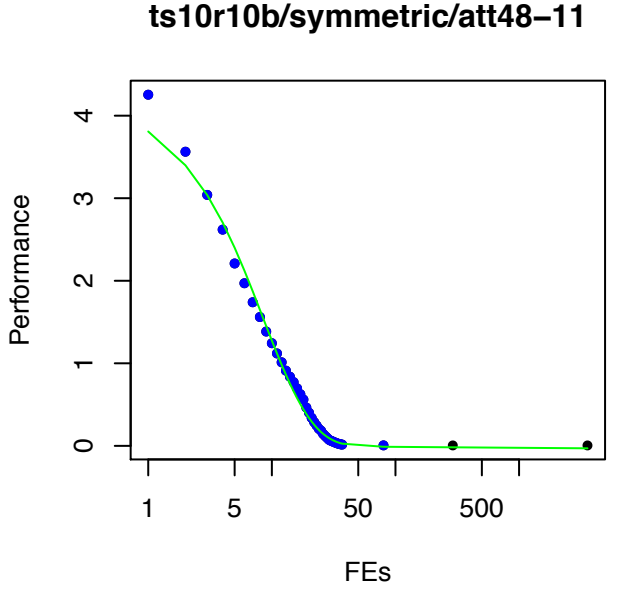
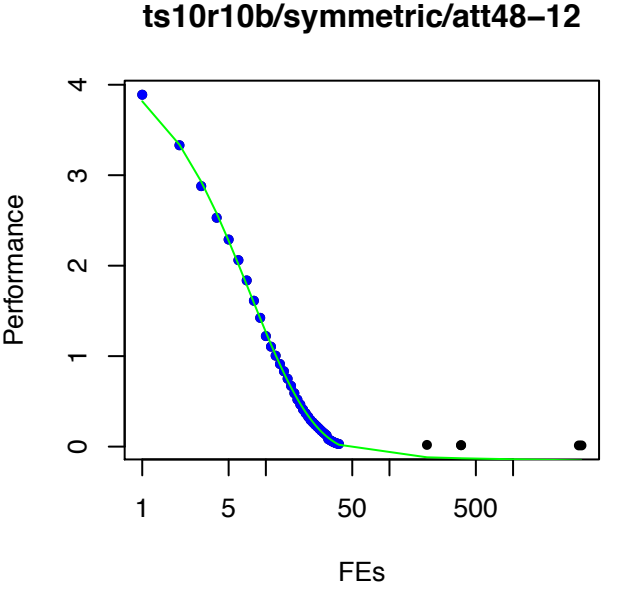
1
2
3
4
1
5
50
500
FEs


ts10r10b/symmetric/att48−11
Performance
0
1
2
3
4
1
5
50
500
FEs


ts10r10b/symmetric/att48−12
Performance
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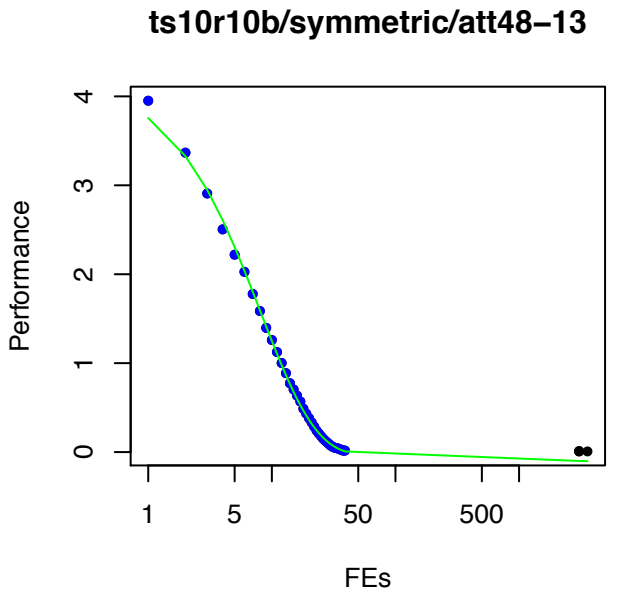
2
3
4
1
5
50
500
FEs


ts10r10b/symmetric/att48−13
Performance
0
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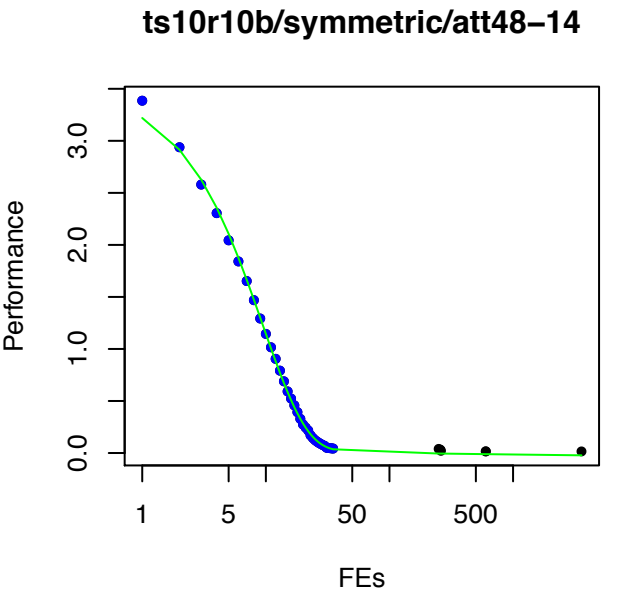
2
3
4
1
5
50
500
FEs


ts10r10b/symmetric/att48−14
Performance
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2.0
3.0
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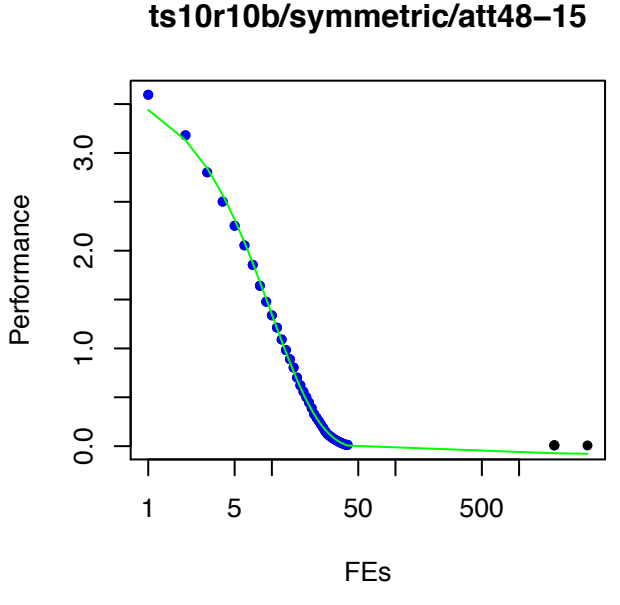
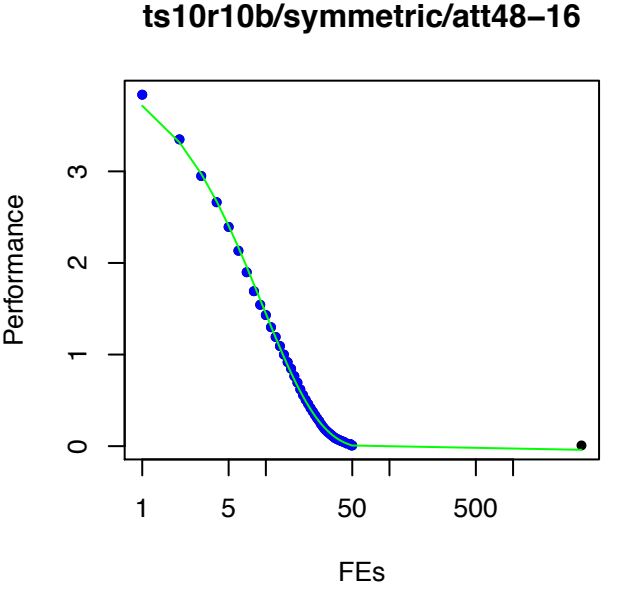
500
FEs


ts10r10b/symmetric/att48−15
Performance
0.0
1.0
2.0
3.0
1
5
50
500
FEs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Performance
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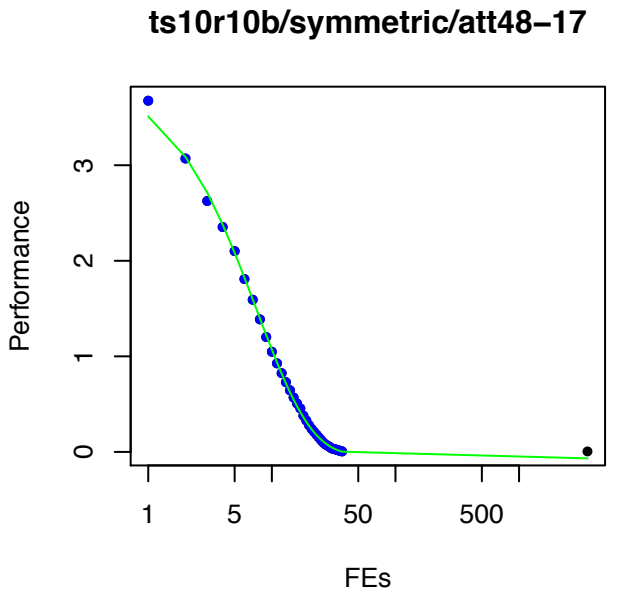
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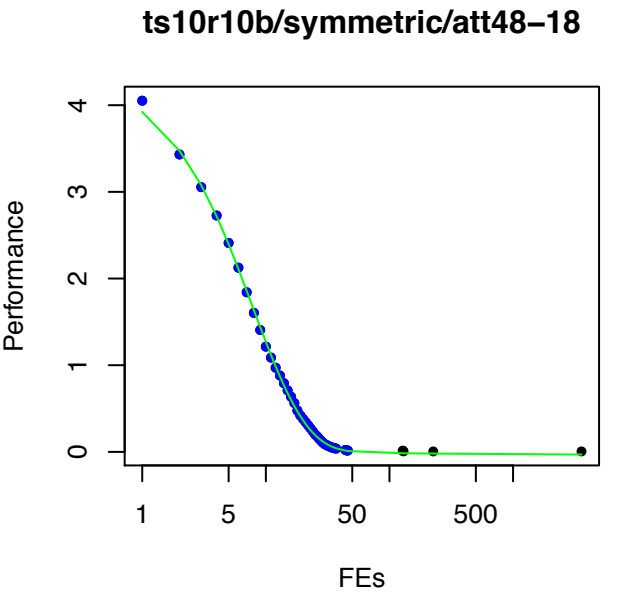
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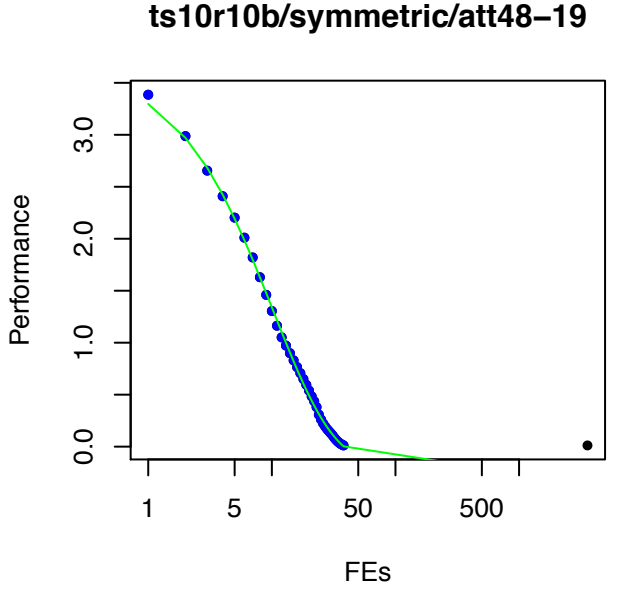
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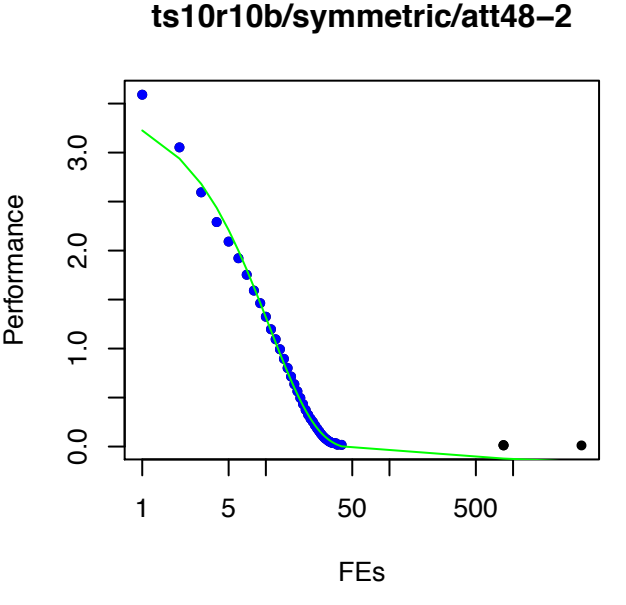
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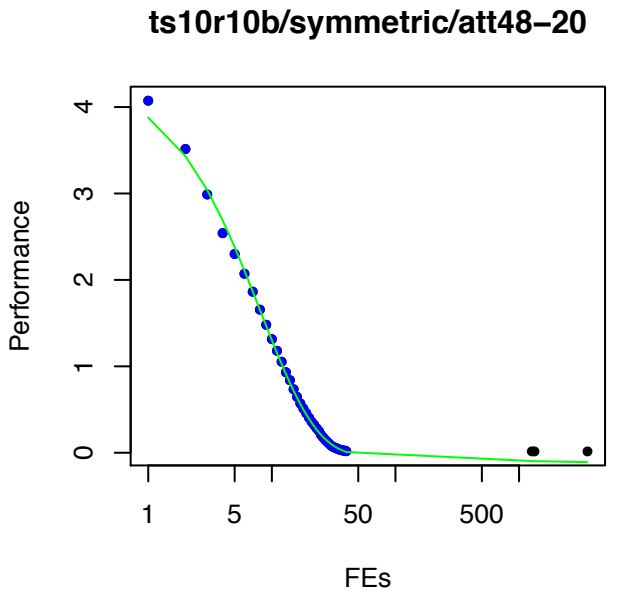
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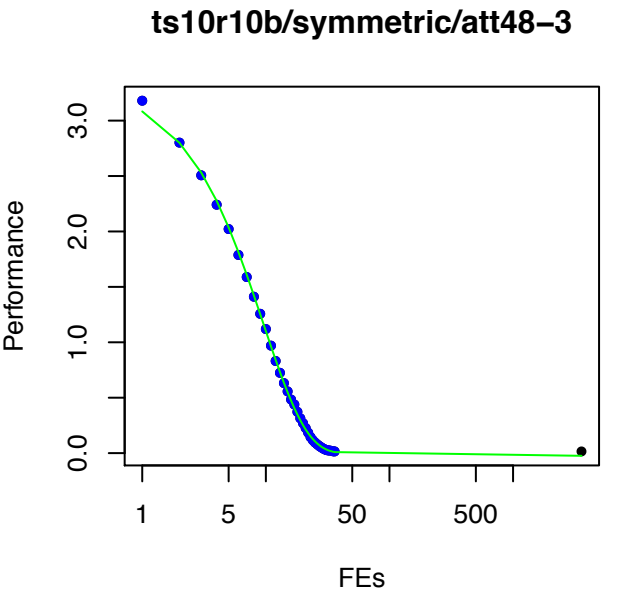
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Performance
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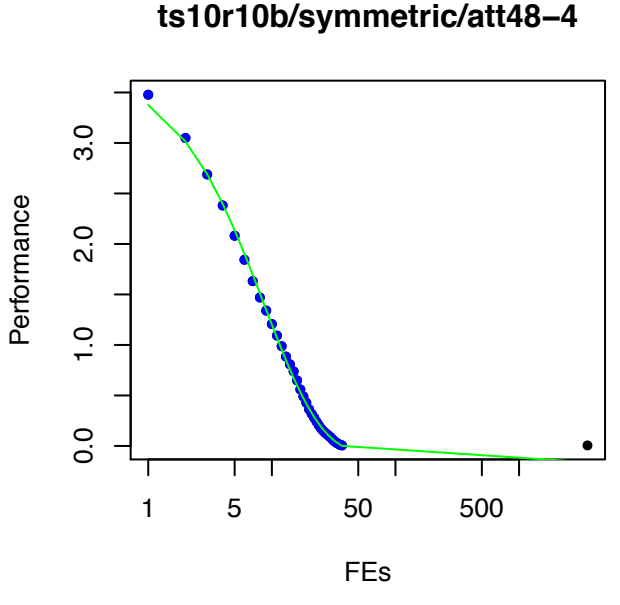
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Performance
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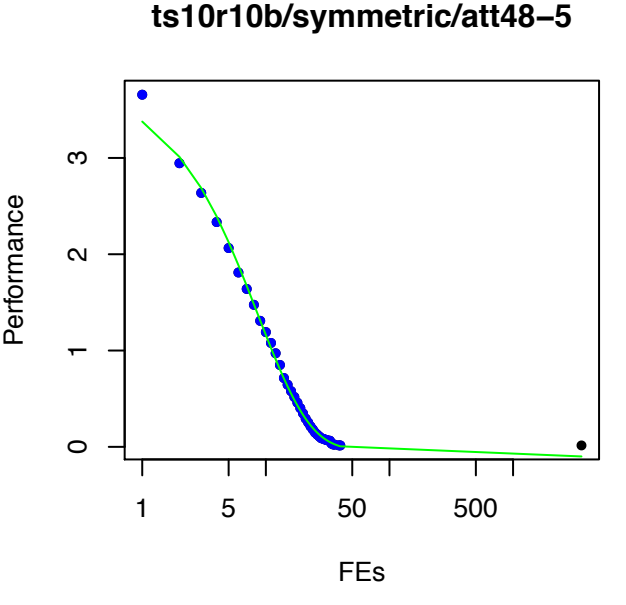
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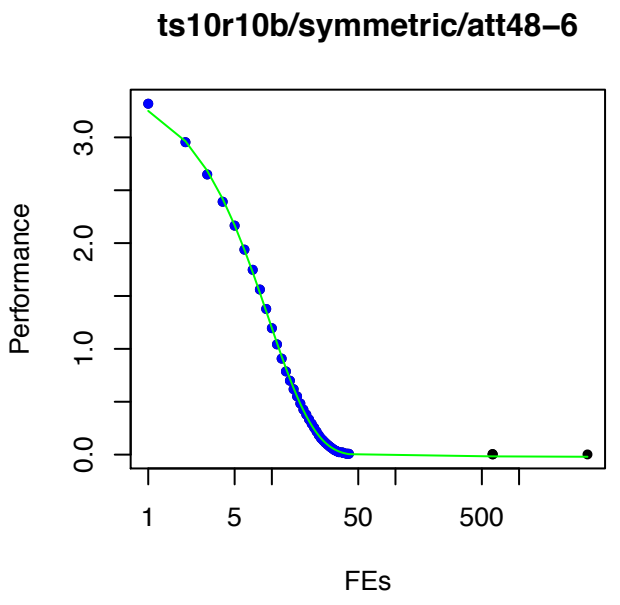
FEs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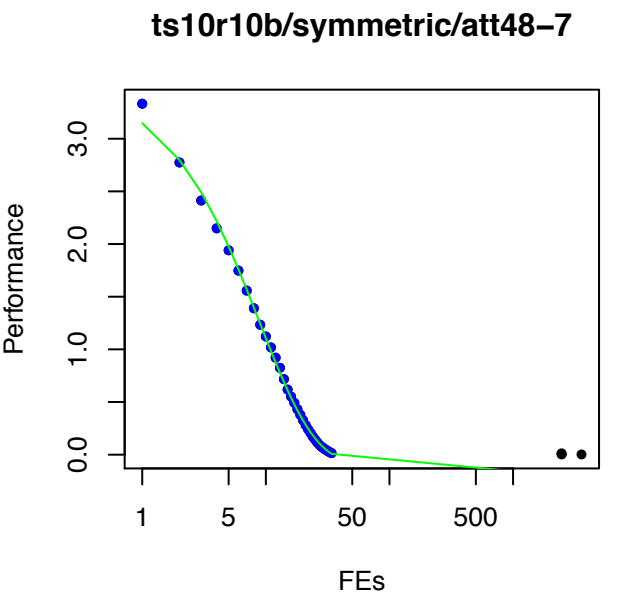
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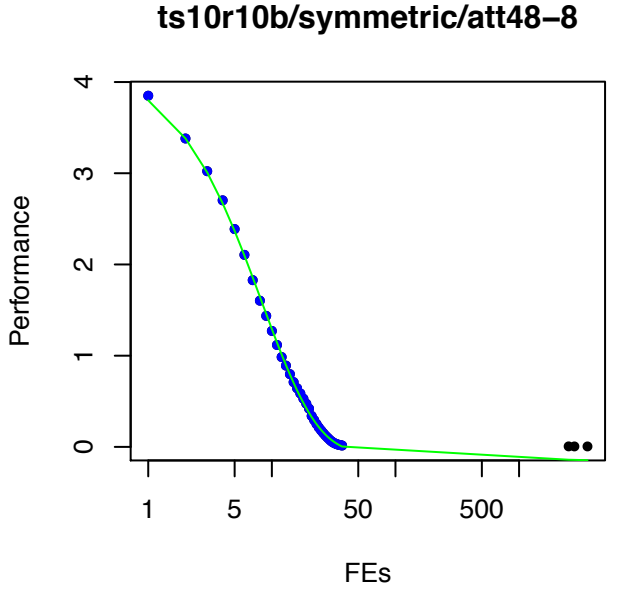
FEs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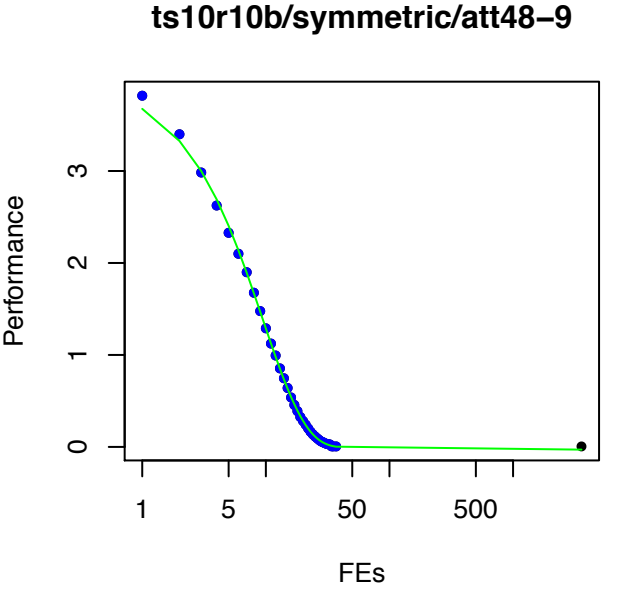
FEs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Performance
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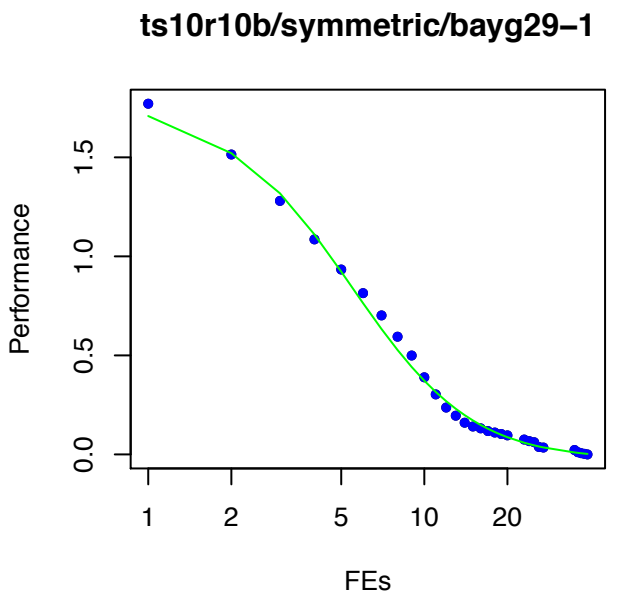
FEs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2
5
10
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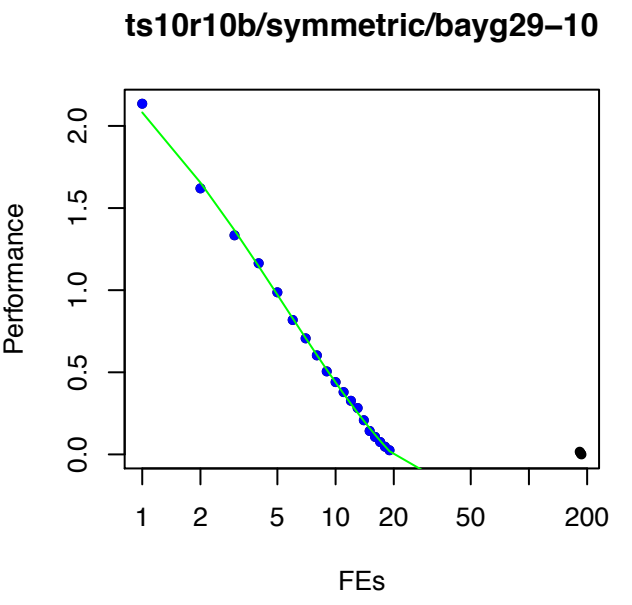
FEs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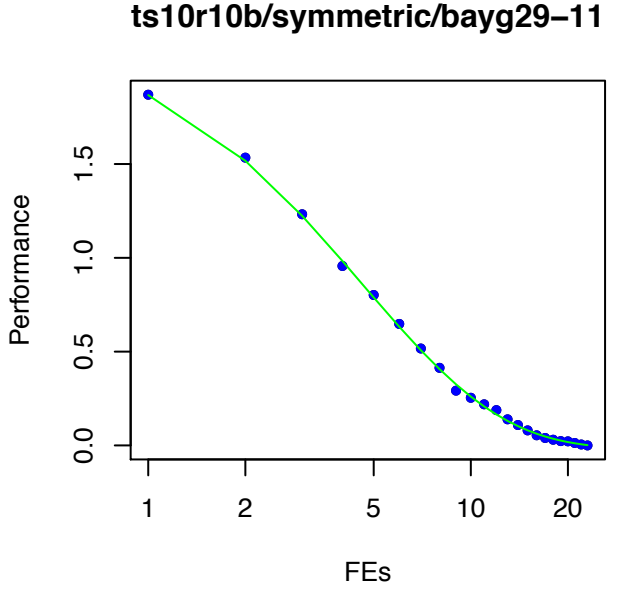
FEs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10
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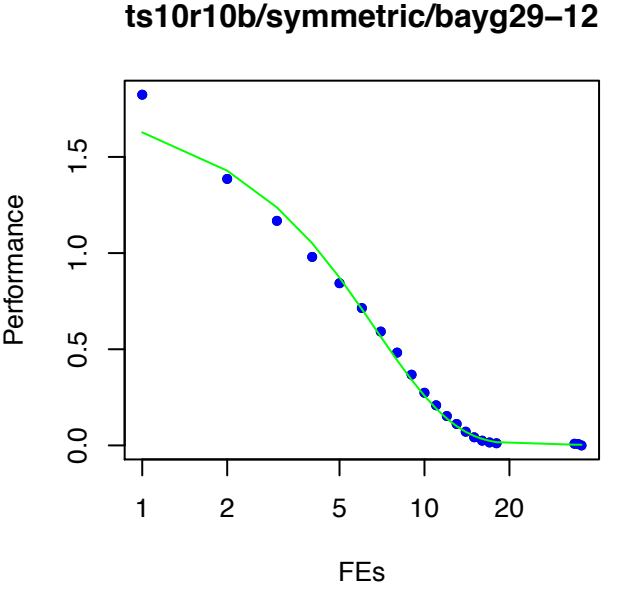
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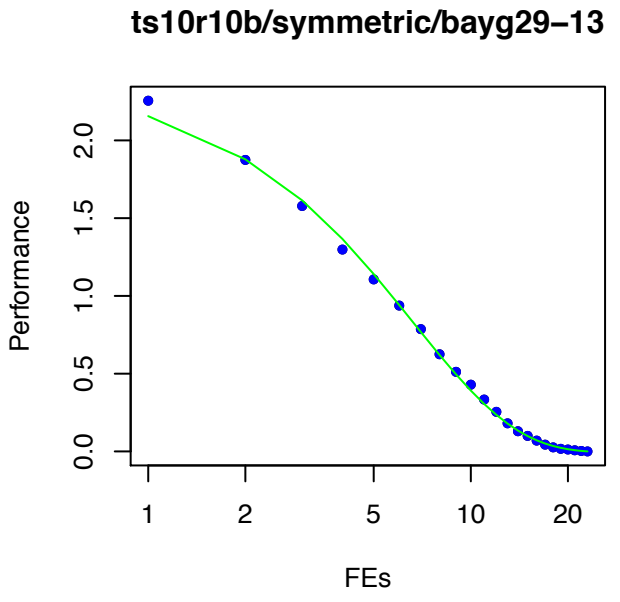
FEs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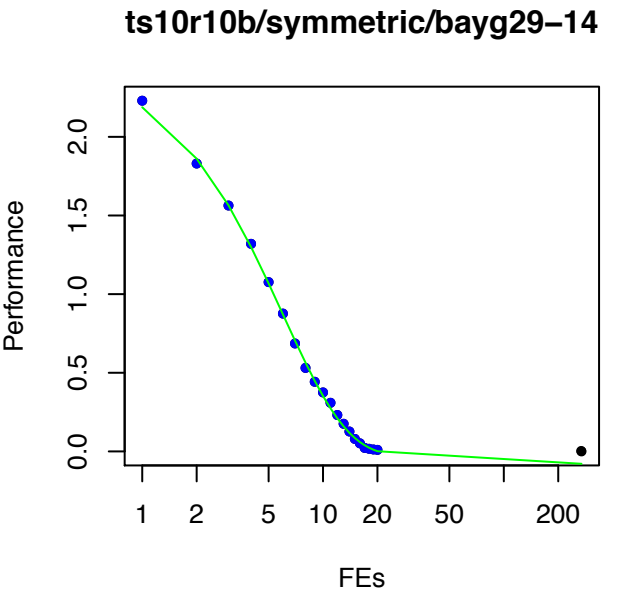
FEs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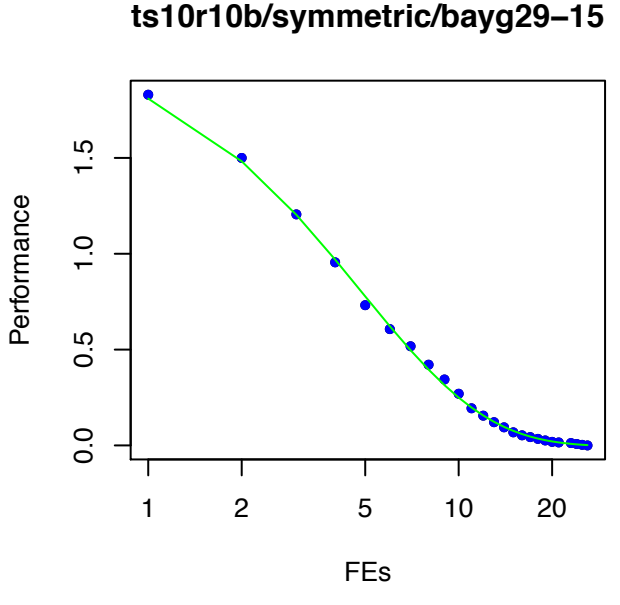
FEs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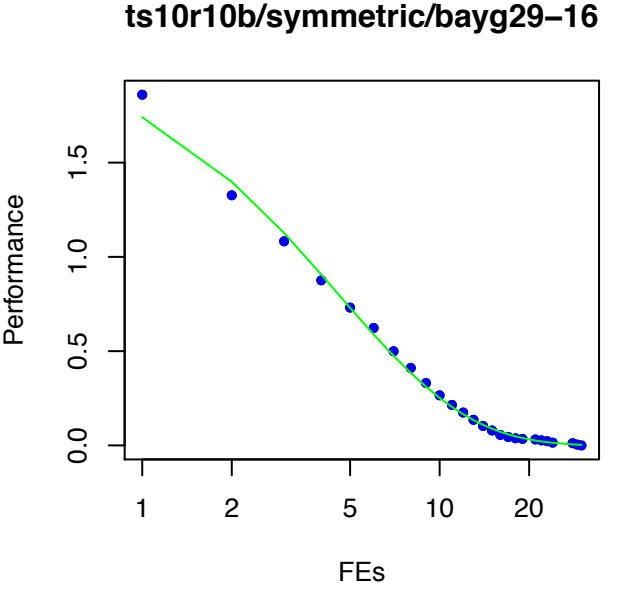
FEs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Performance
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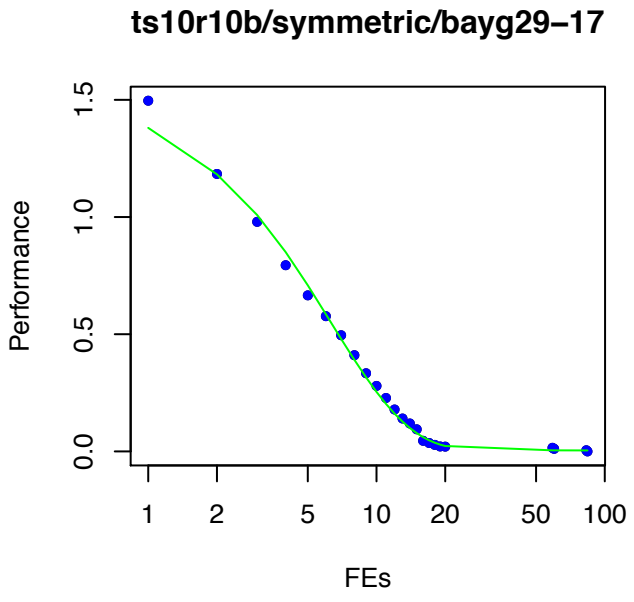
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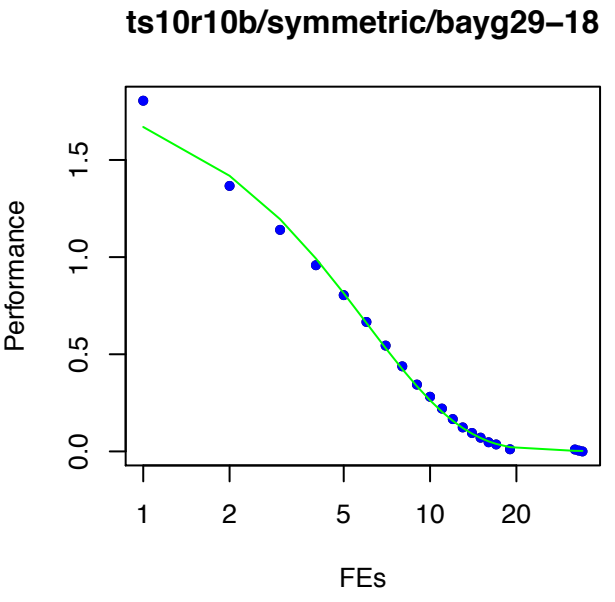
FEs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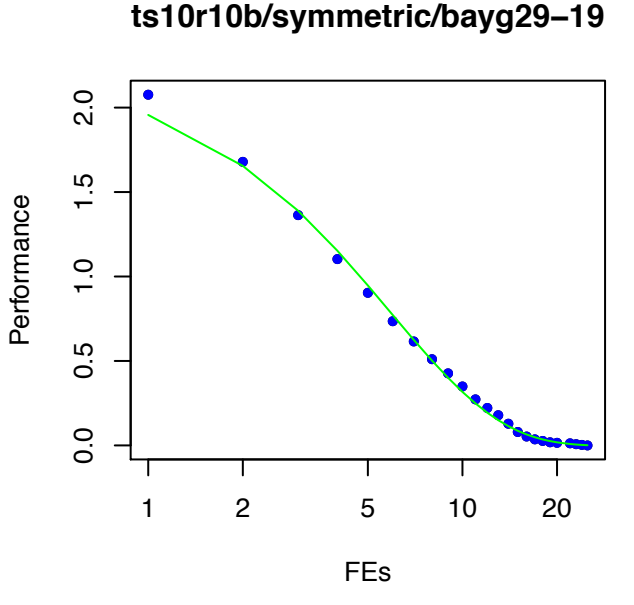
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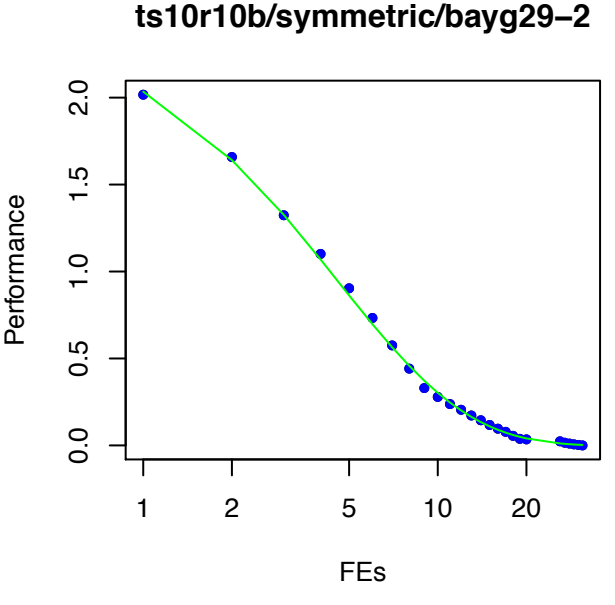
FEs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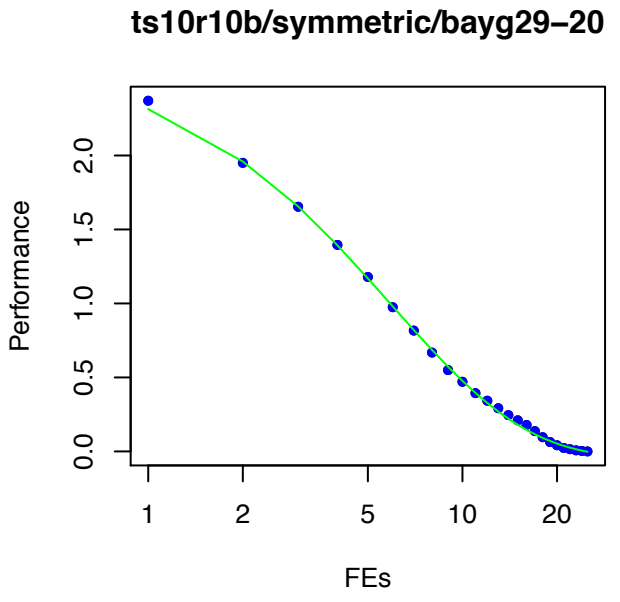
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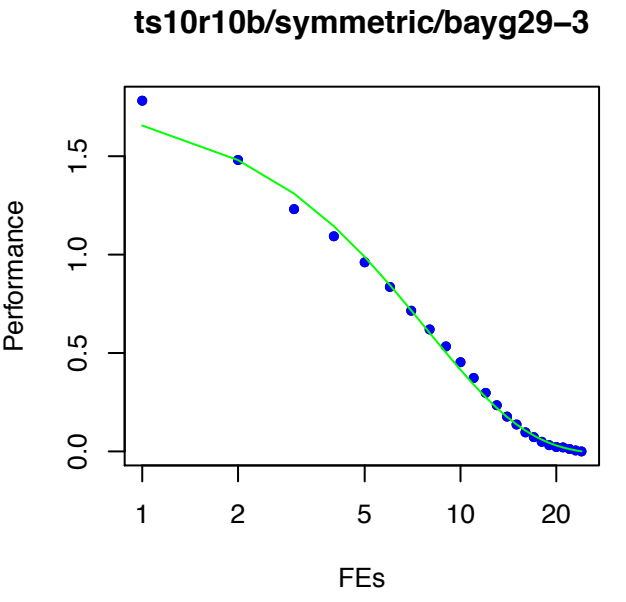
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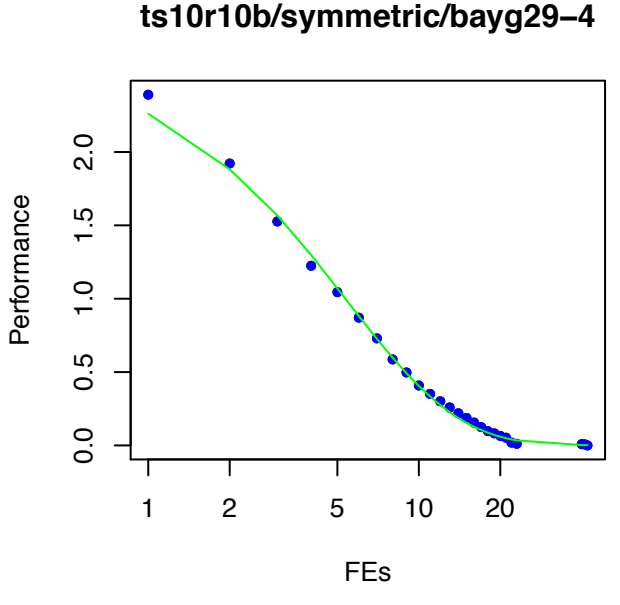
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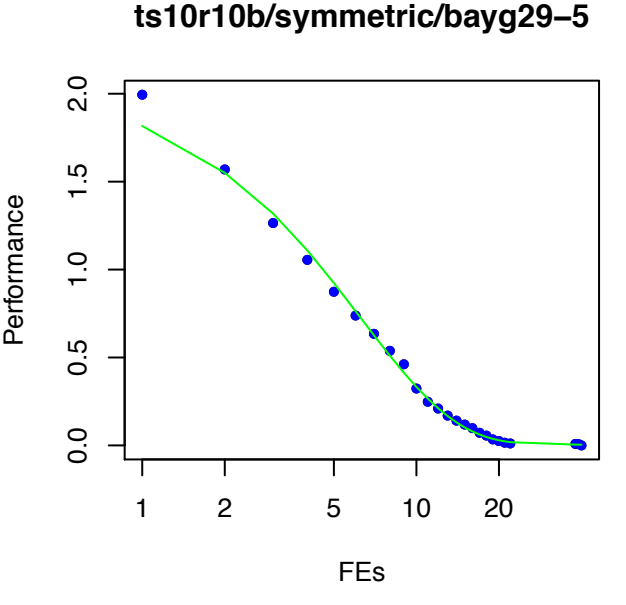
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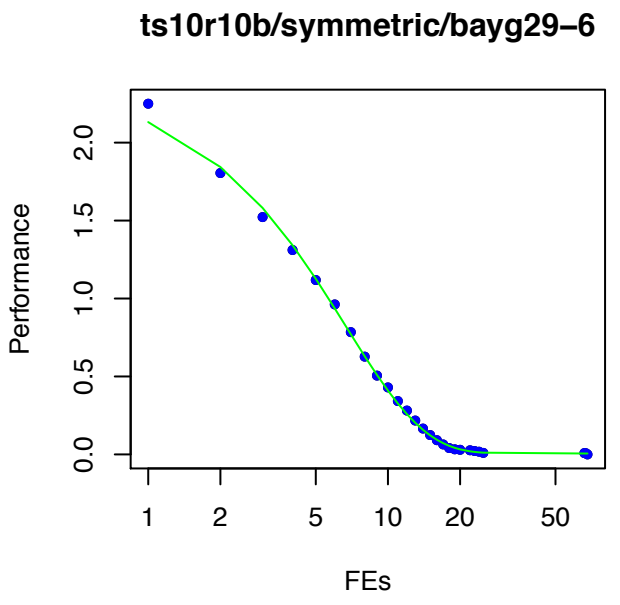
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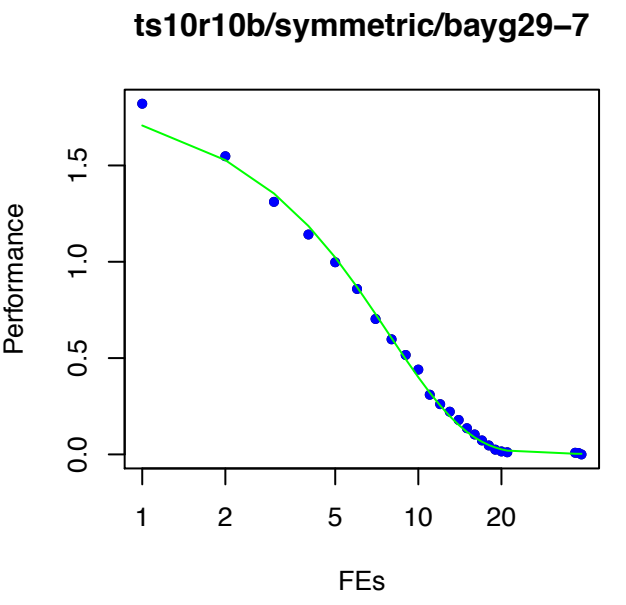
FEs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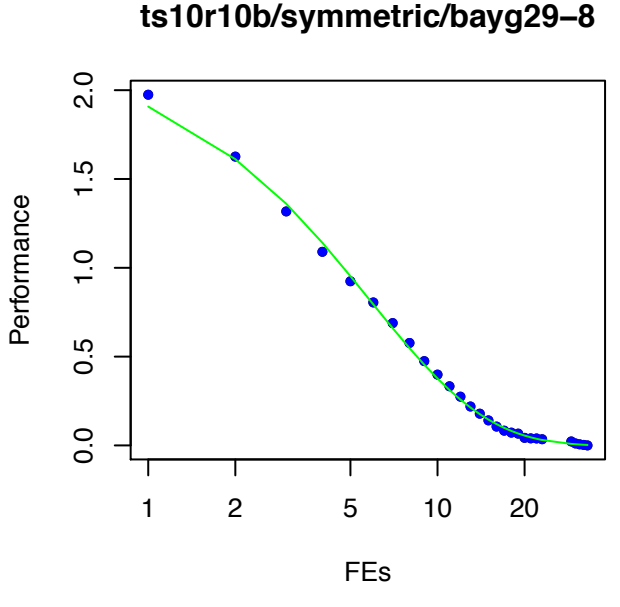
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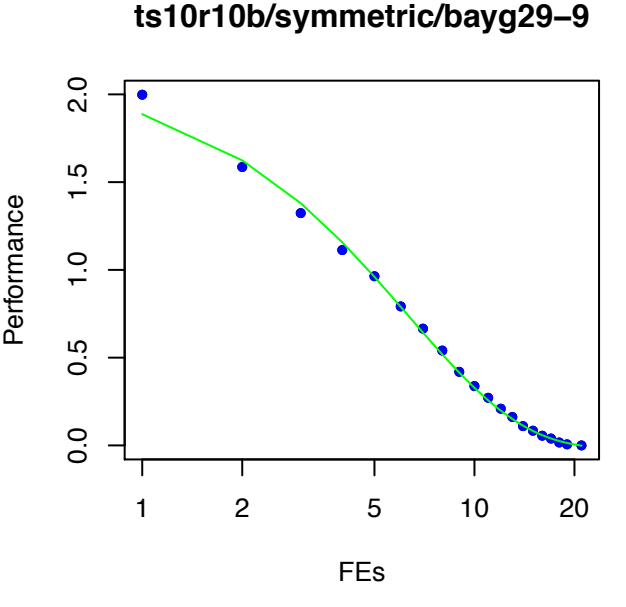
FEs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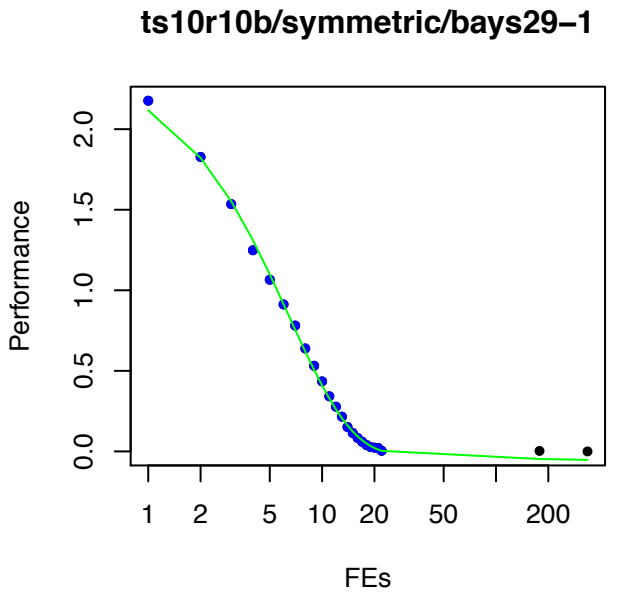
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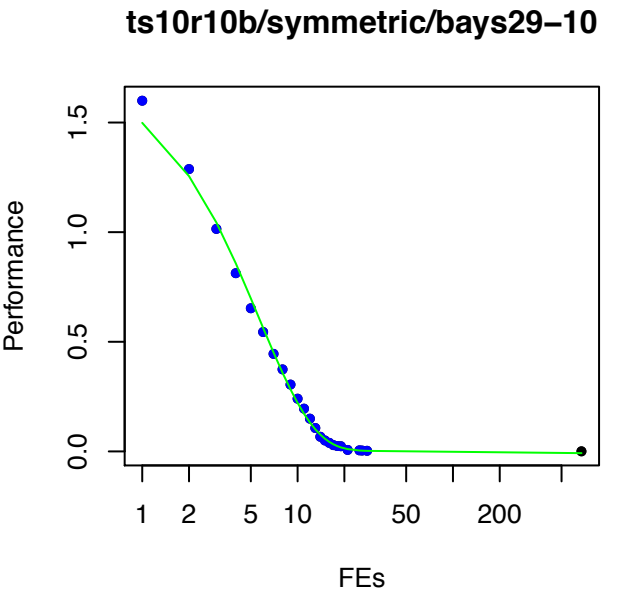
FEs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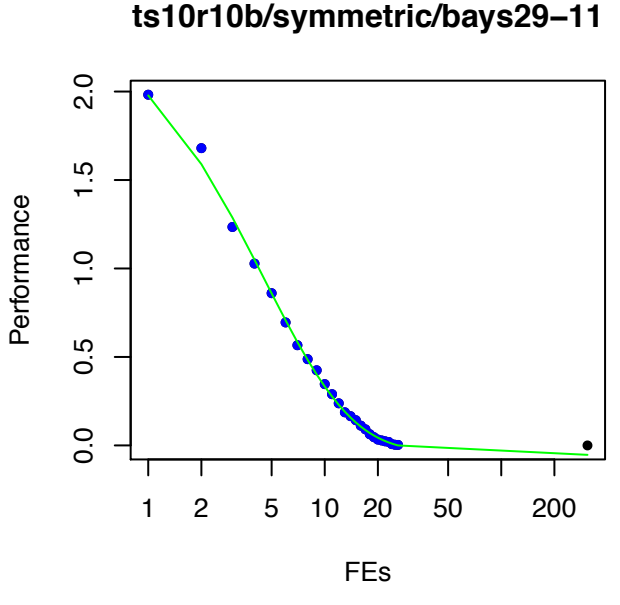
FEs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Performance
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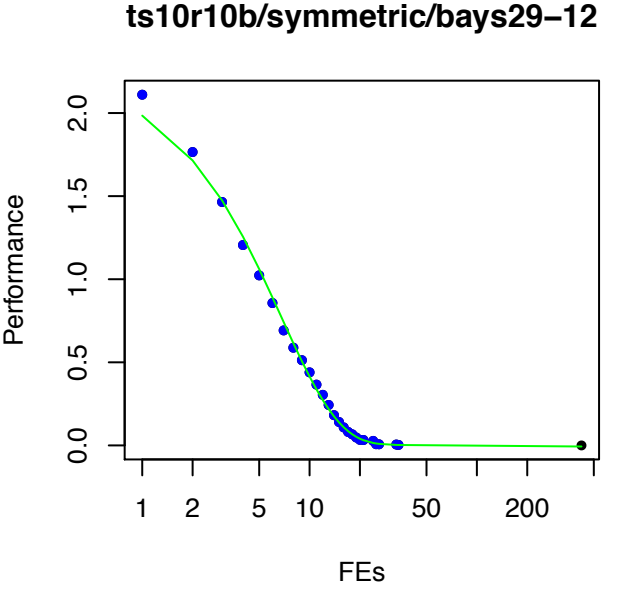
FEs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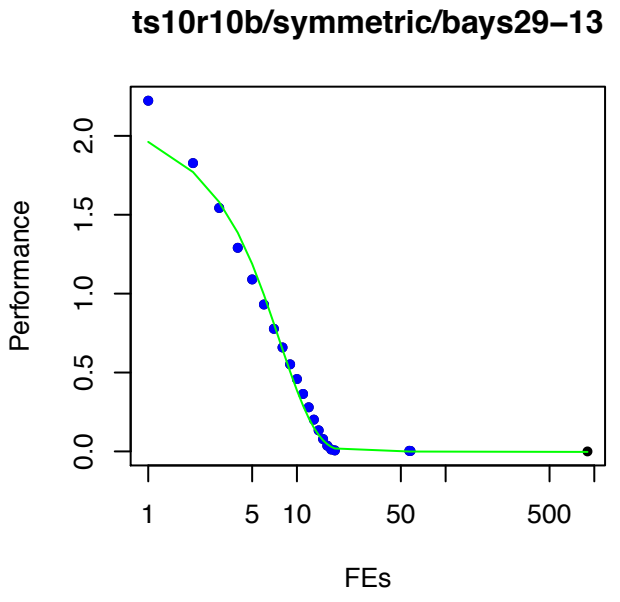
FEs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Performance
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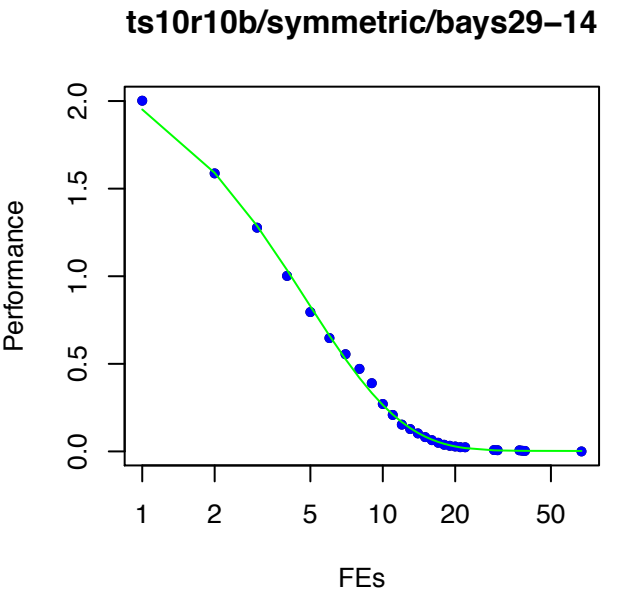
FEs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Performance
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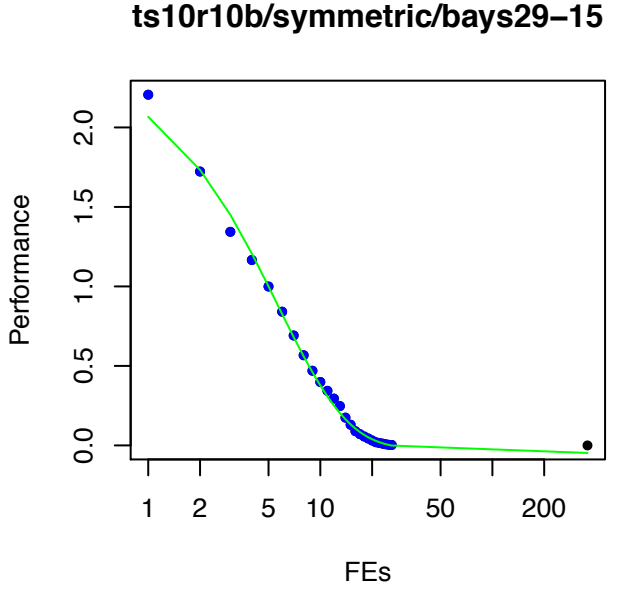
FEs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Performance
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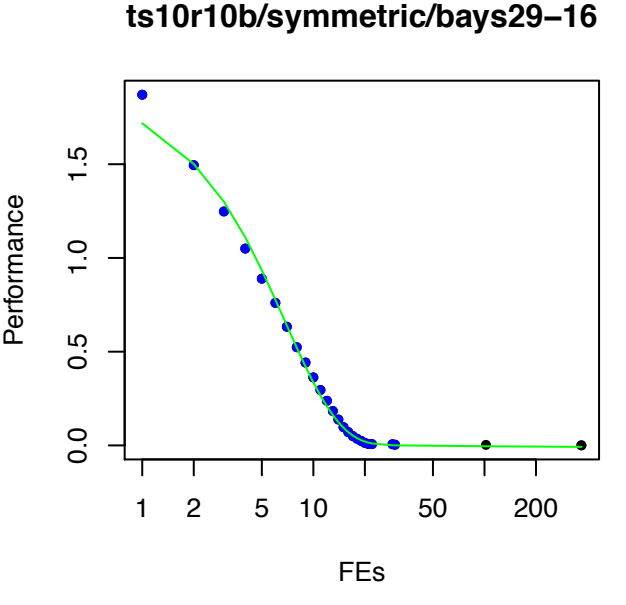
FEs


ts10r10b/symmetric/bays29−16
Performance
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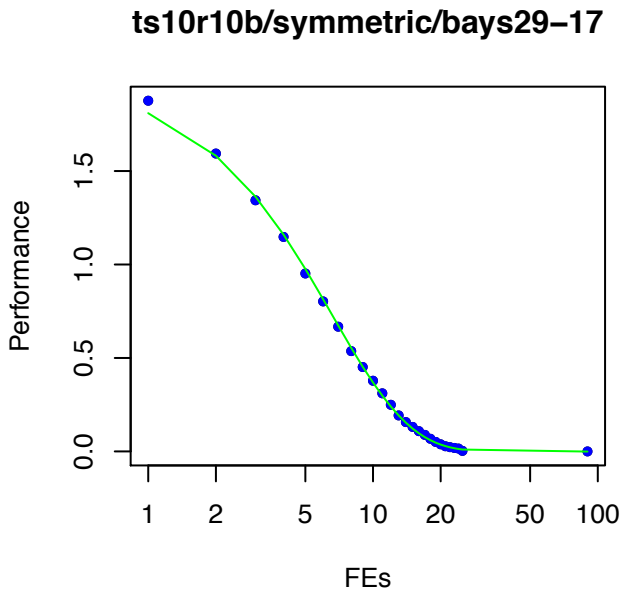
200
FEs


ts10r10b/symmetric/bays29−17
Performance
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50
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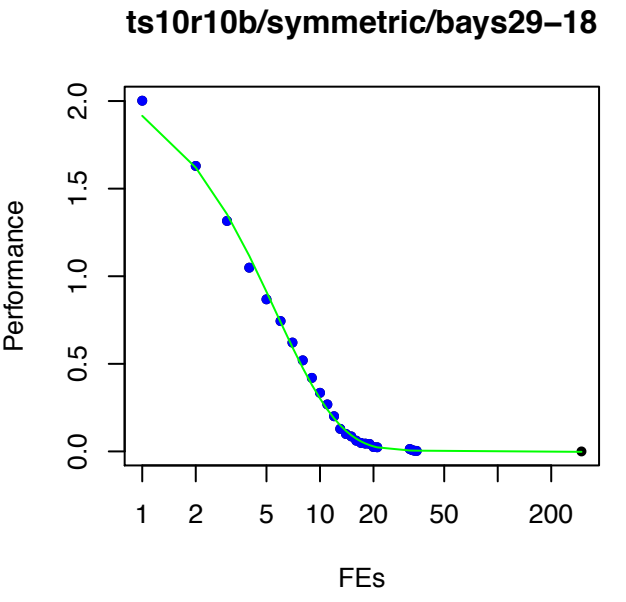
FEs


ts10r10b/symmetric/bays29−18
Performance
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2
5
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20
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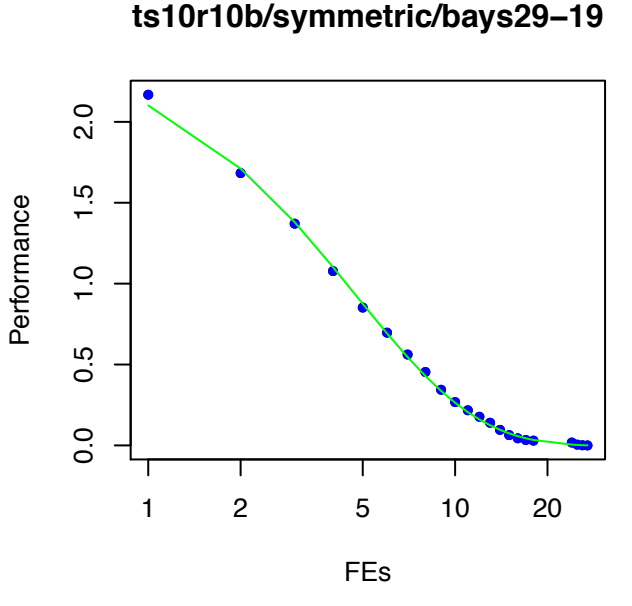
200
FEs


ts10r10b/symmetric/bays29−19
Performance
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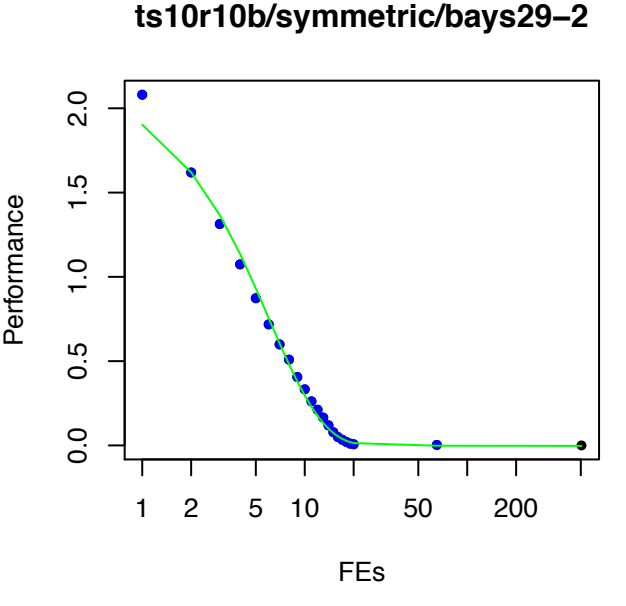
2.0
1
2
5
10
20
FEs


ts10r10b/symmetric/bays29−2
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2.0
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2
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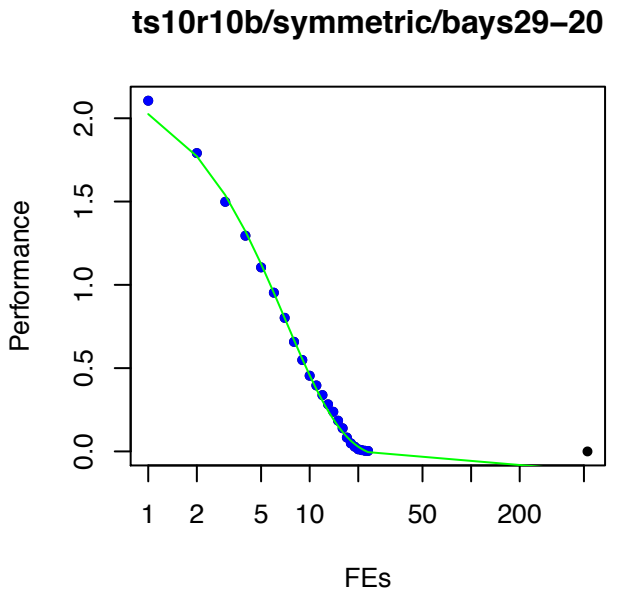
FEs


ts10r10b/symmetric/bays29−20
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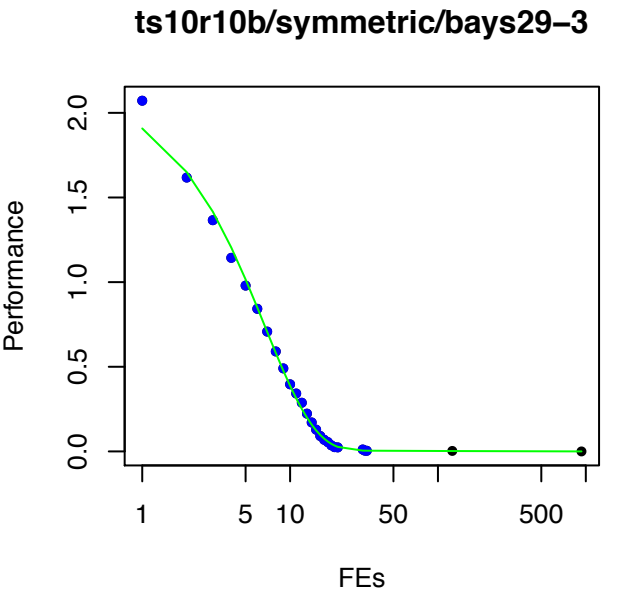
1
2
5
10
50
200
FEs


ts10r10b/symmetric/bays29−3
Performance
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1.5
2.0
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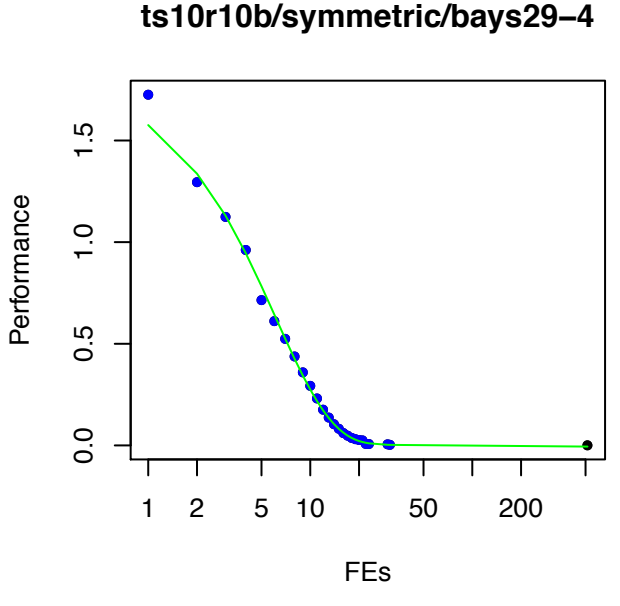
5
10
50
500
FEs


ts10r10b/symmetric/bays29−4
Performance
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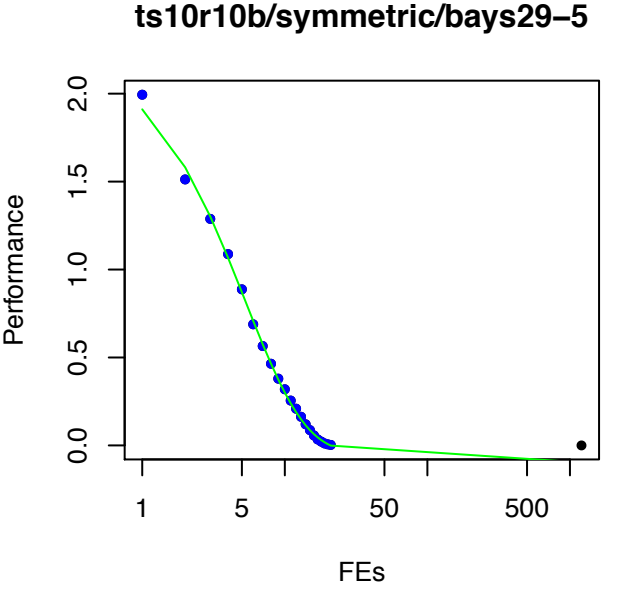
1.0
1.5
1
2
5
10
50
200
FEs


ts10r10b/symmetric/bays29−5
Performance
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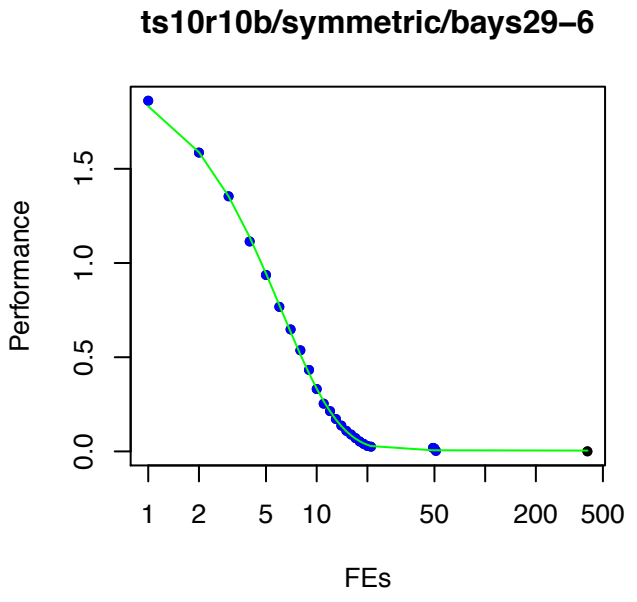
2.0
1
5
50
500
FEs


ts10r10b/symmetric/bays29−6
Performance
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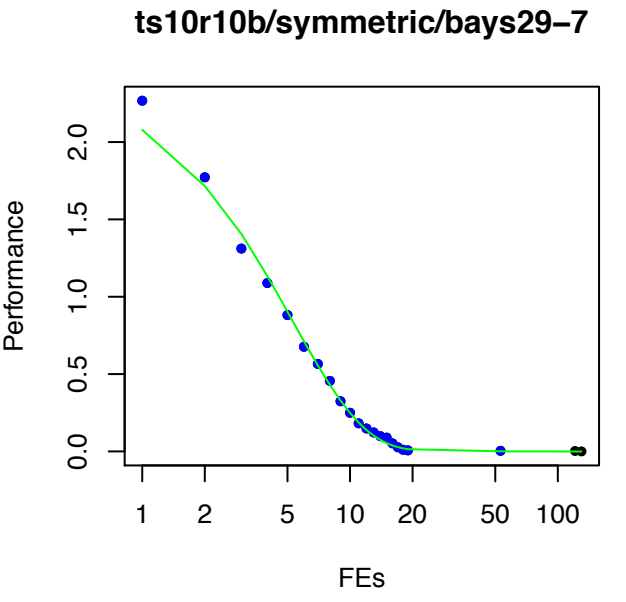
1.5
1
2
5
10
50
200
500
FEs


ts10r10b/symmetric/bays29−7
Performance
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1.5
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2
5
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20
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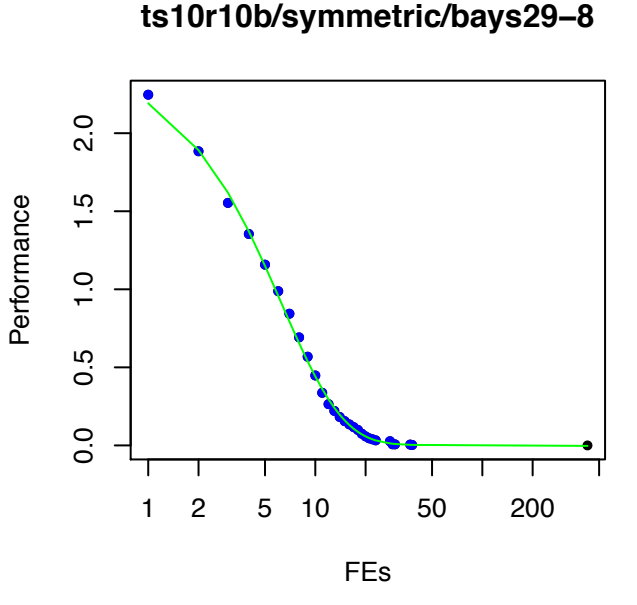
100
FEs


ts10r10b/symmetric/bays29−8
Performance
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1.0
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2.0
1
2
5
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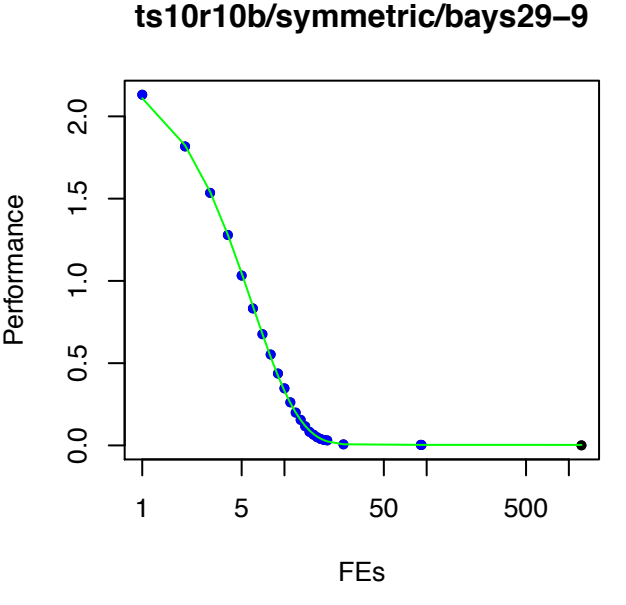
50
200
FEs


ts10r10b/symmetric/bays29−9
Performance
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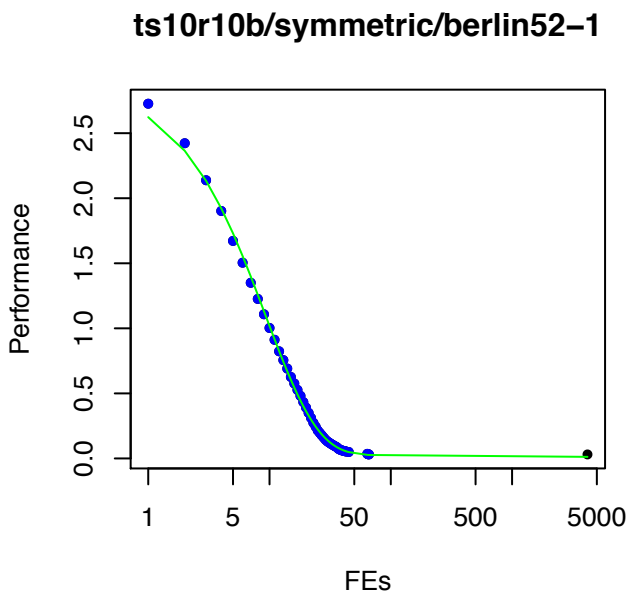
1.5
2.0
1
5
50
500
FEs


ts10r10b/symmetric/berlin52−1
Performance
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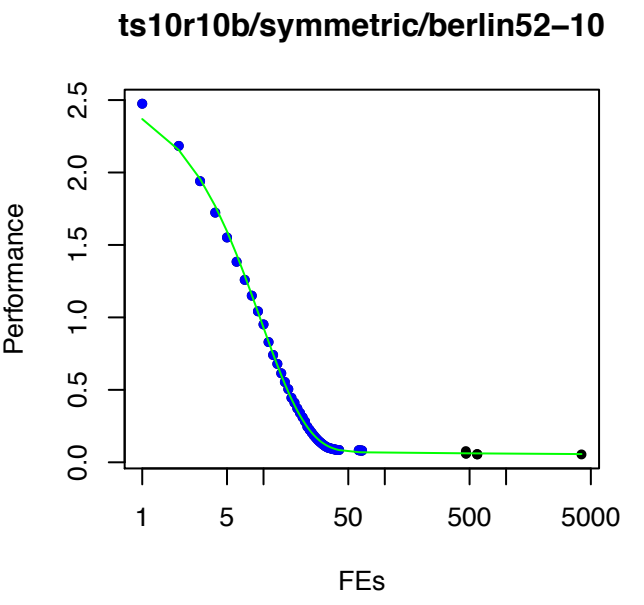
2.0
2.5
1
5
50
500
5000
FEs


ts10r10b/symmetric/berlin52−10
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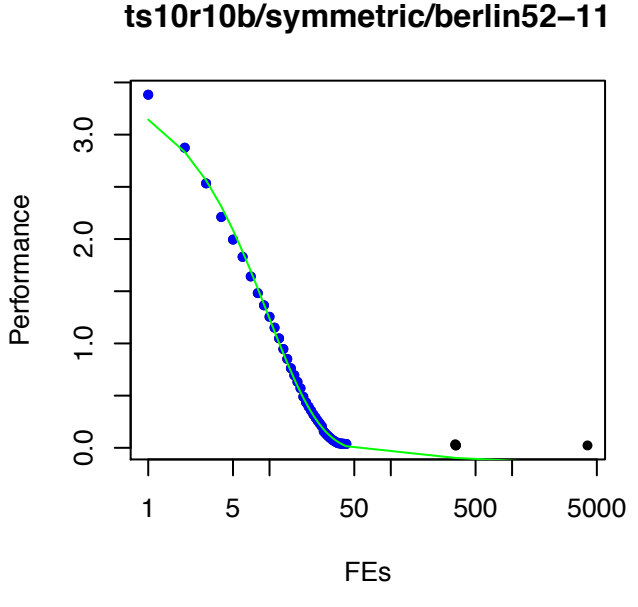
2.0
2.5
1
5
50
500
5000
FEs


ts10r10b/symmetric/berlin52−11
Performance
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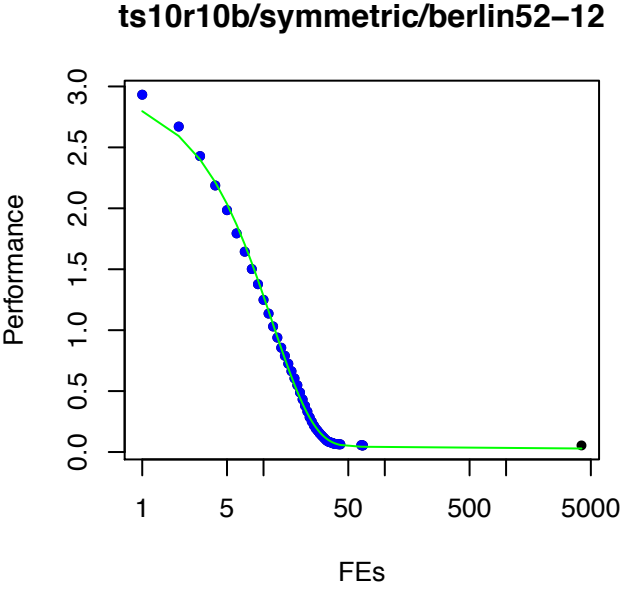
2.0
3.0
1
5
50
500
5000
FEs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1.5
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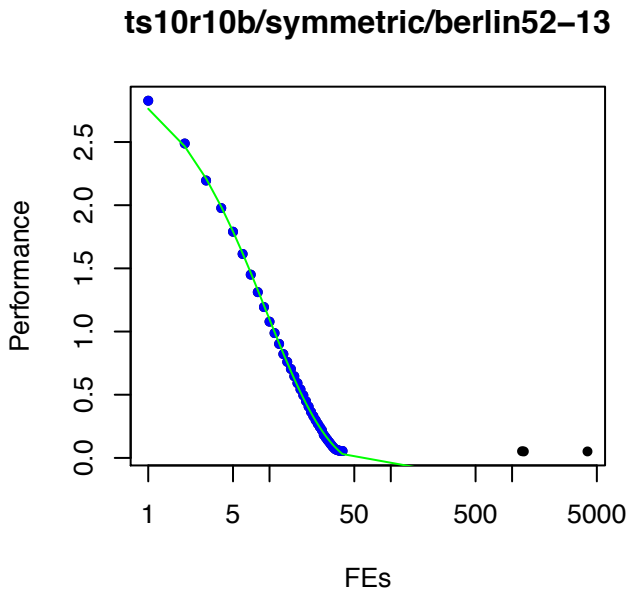
2.5
3.0
1
5
50
500
5000
FEs


ts10r10b/symmetric/berlin52−13
Performance
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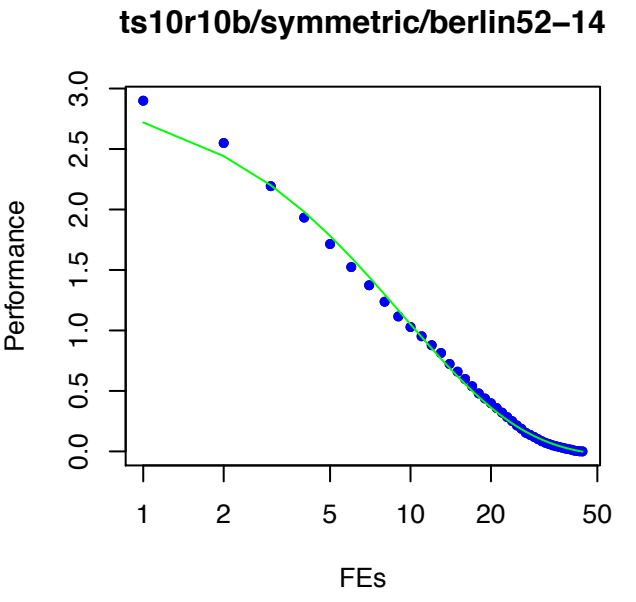
2.5
1
5
50
500
5000
FEs


ts10r10b/symmetric/berlin52−14
Performance
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2
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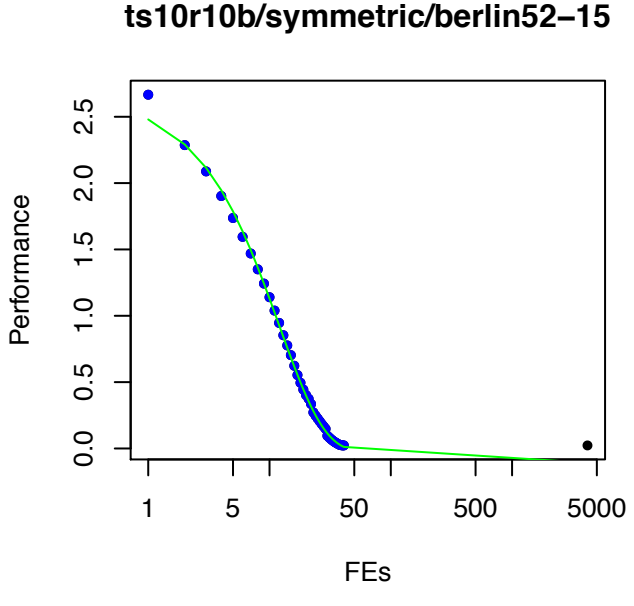
10
20
50
FEs


ts10r10b/symmetric/berlin52−15
Performance
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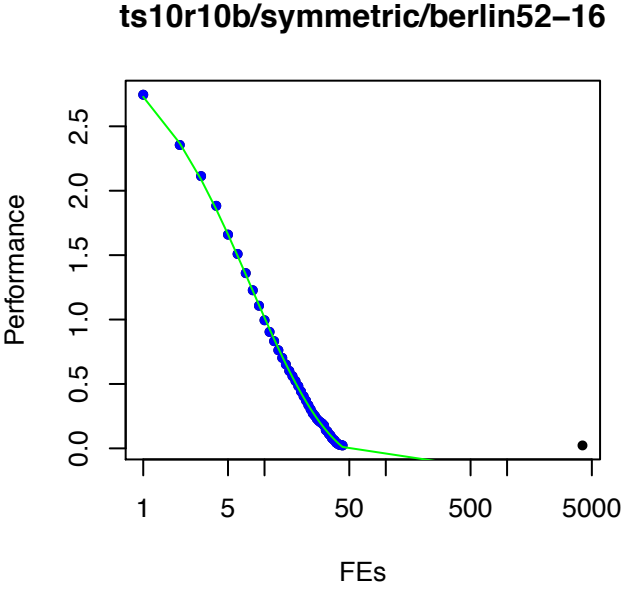
2.0
2.5
1
5
50
500
5000
FEs


ts10r10b/symmetric/berlin52−16
Performance
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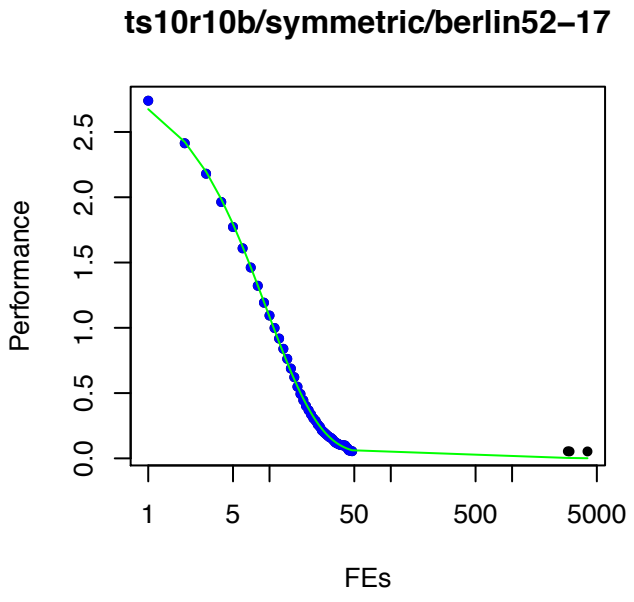
2.5
1
5
50
500
5000
FEs


ts10r10b/symmetric/berlin52−17
Performance
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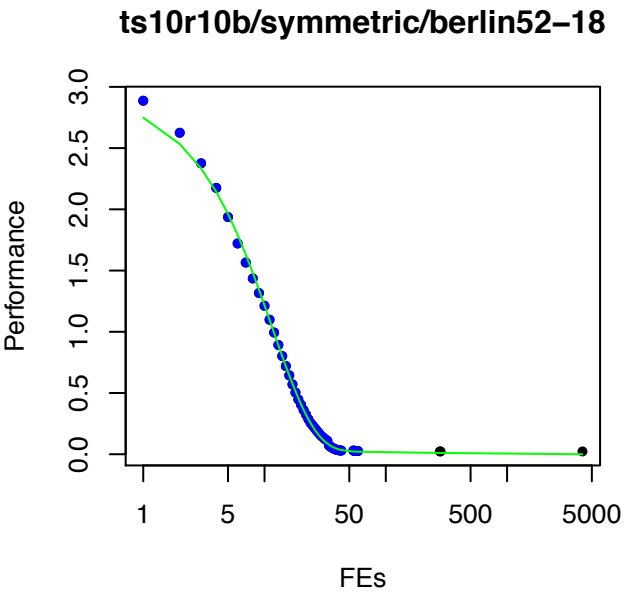
2.0
2.5
1
5
50
500
5000
FEs


ts10r10b/symmetric/berlin52−18
Performance
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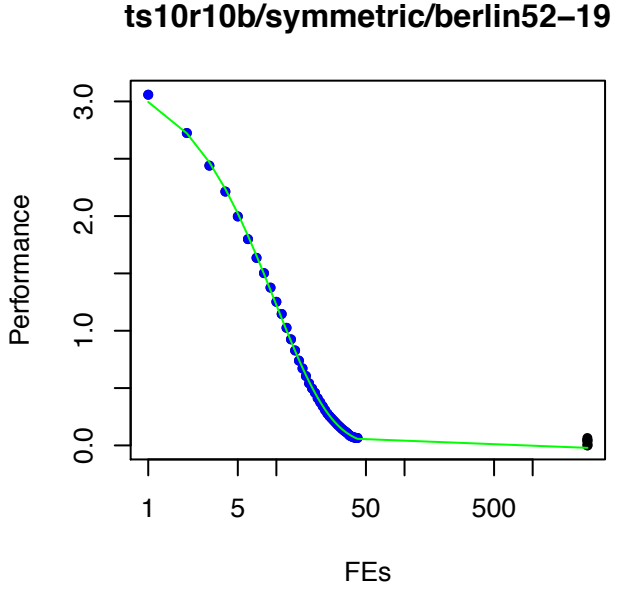
2.0
2.5
3.0
1
5
50
500
5000
FEs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Performance
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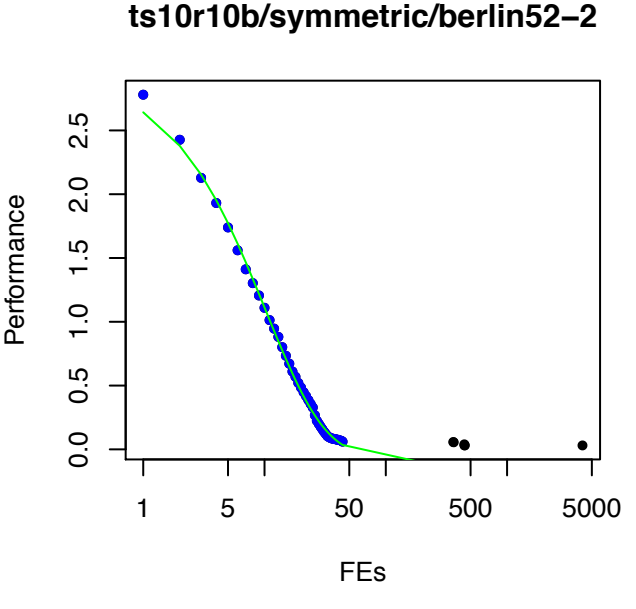
3.0
1
5
50
500
FEs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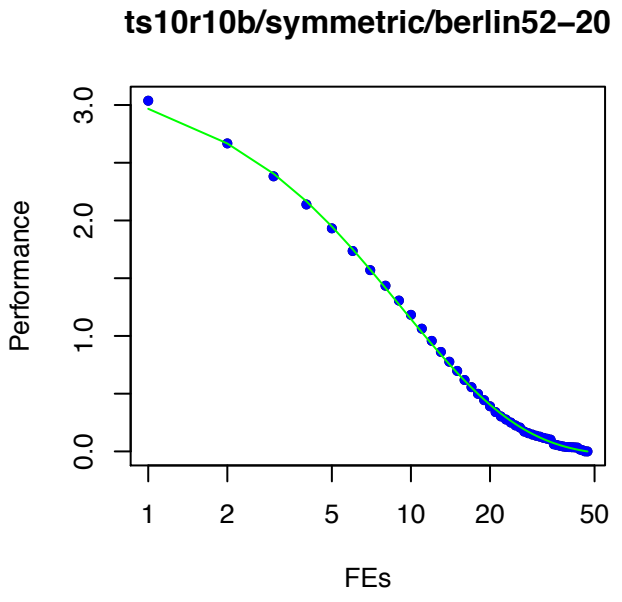
5000
FEs


ts10r10b/symmetric/berlin52−20
Performance
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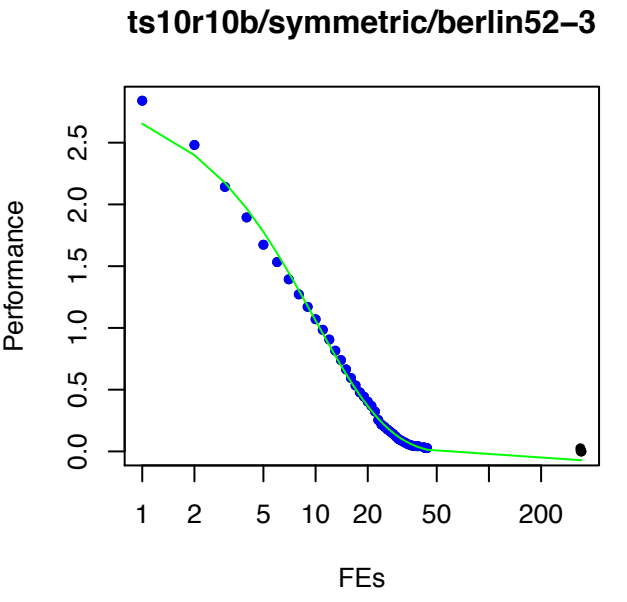
10
20
50
FEs


ts10r10b/symmetric/berlin52−3
Performance
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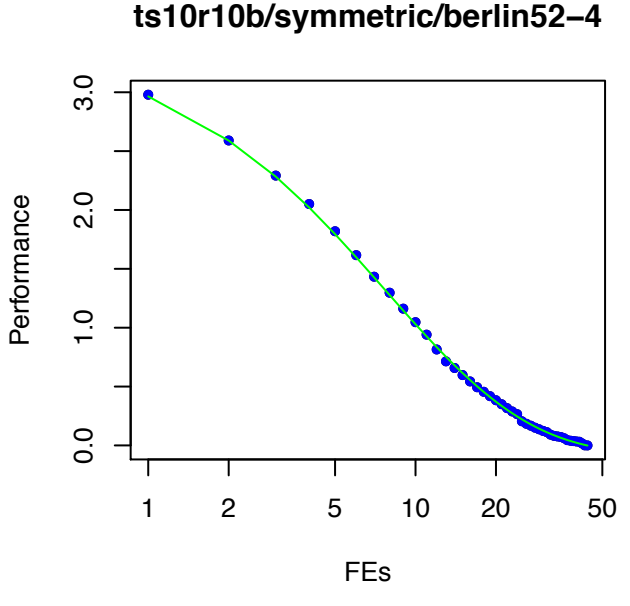
2.0
2.5
1
2
5
10
20
50
200
FEs


ts10r10b/symmetric/berlin52−4
Performance
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10
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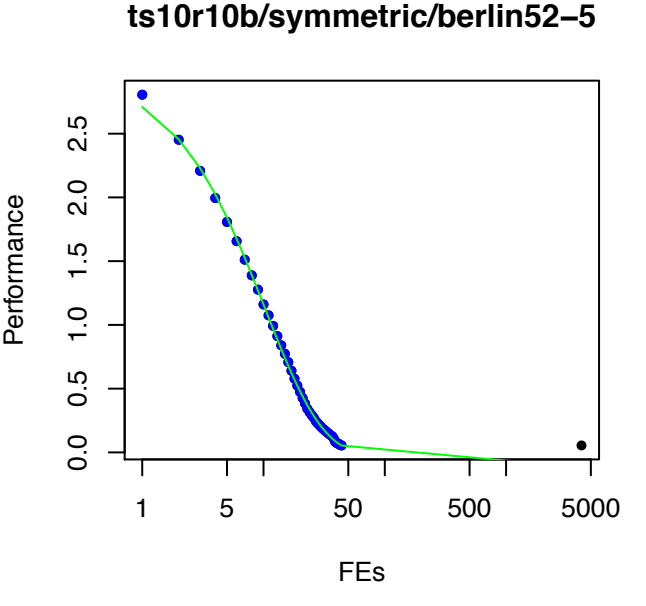
50
FEs


ts10r10b/symmetric/berlin52−5
Performance
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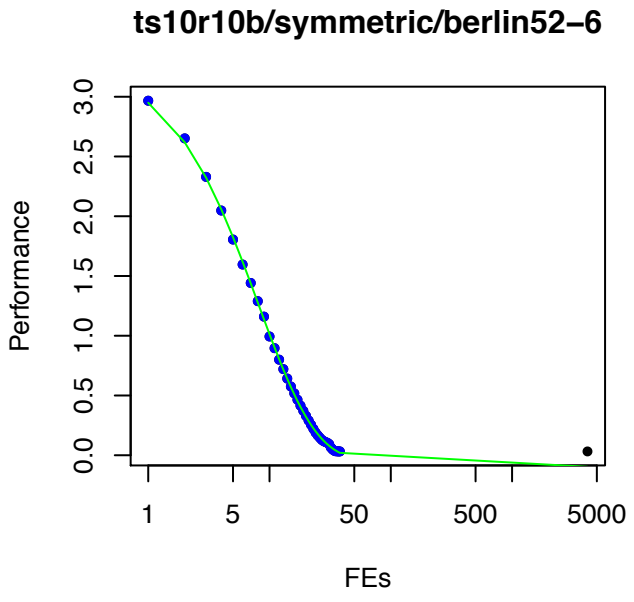
2.5
1
5
50
500
5000
FEs


ts10r10b/symmetric/berlin52−6
Performance
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2.5
3.0
1
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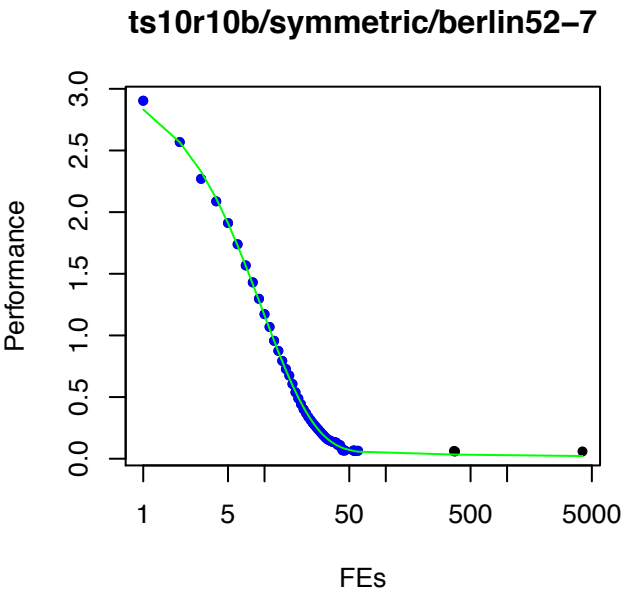
50
500
5000
FEs


ts10r10b/symmetric/berlin52−7
Performance
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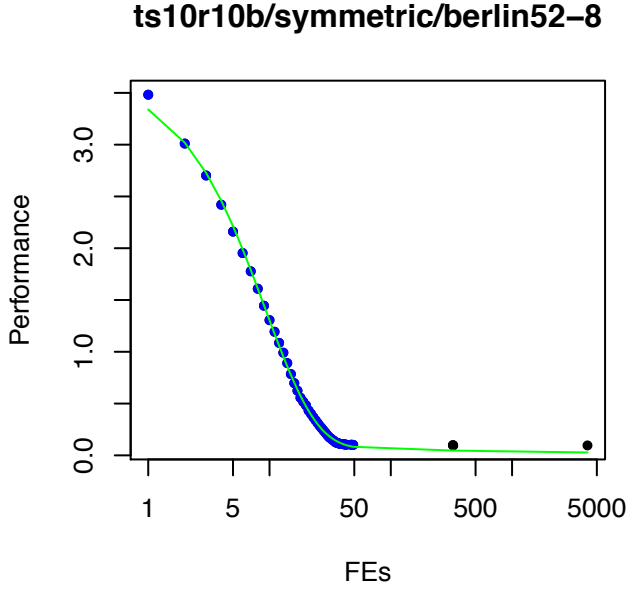
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts10r10b/symmetric/berlin52−8
Performance
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3.0
1
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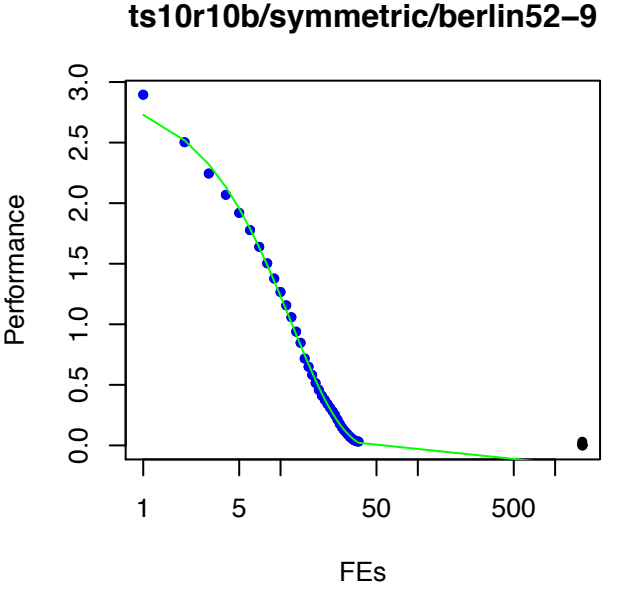
50
500
5000
FEs


ts10r10b/symmetric/berlin52−9
Performance
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1.5
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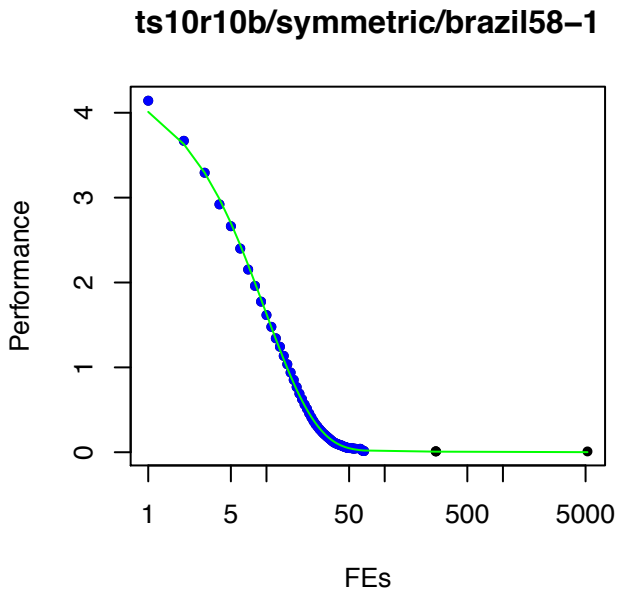
2.5
3.0
1
5
50
500
FEs


ts10r10b/symmetric/brazil58−1
Performance
FEs
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2
3
4
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5
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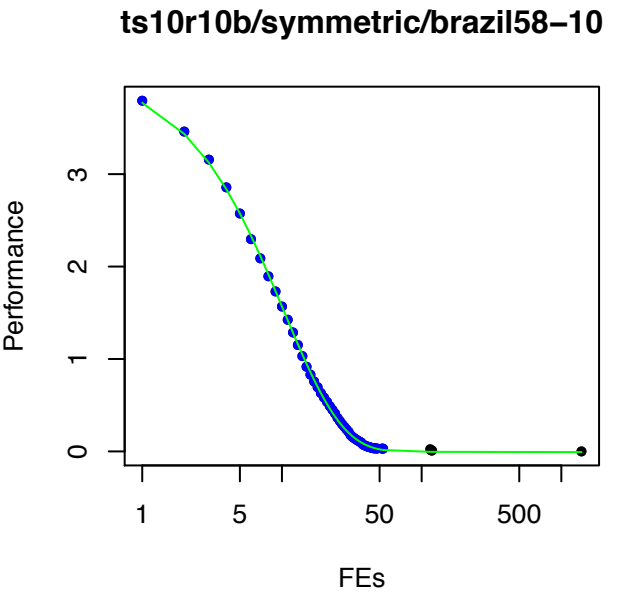
500
5000


ts10r10b/symmetric/brazil58−10
Performance
FEs
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2
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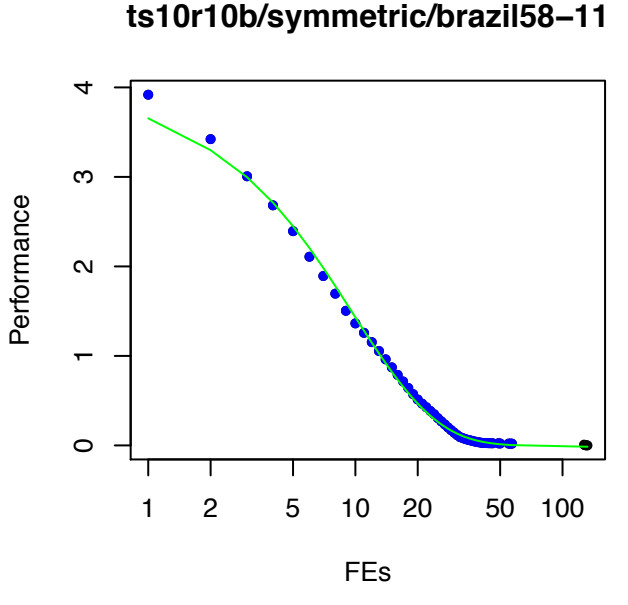
1
5
50
500


ts10r10b/symmetric/brazil58−11
Performance
FEs
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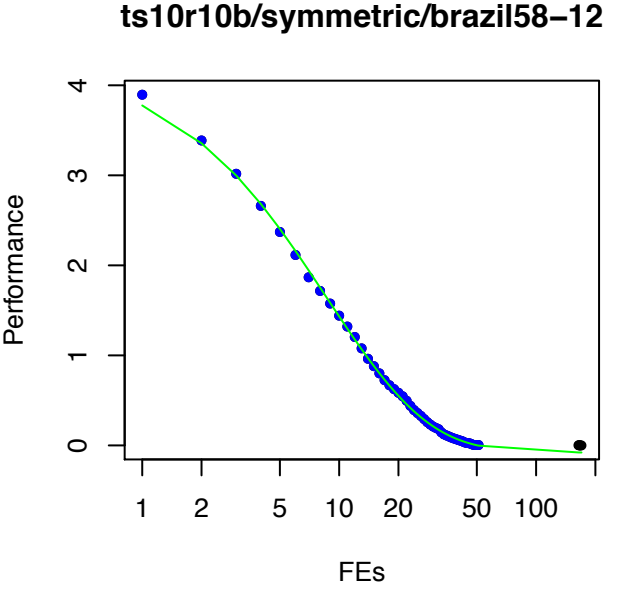
1
2
3
4
1
2
5
10
20
50
100


ts10r10b/symmetric/brazil58−12
Performance
FEs
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3
4
1
2
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10
20
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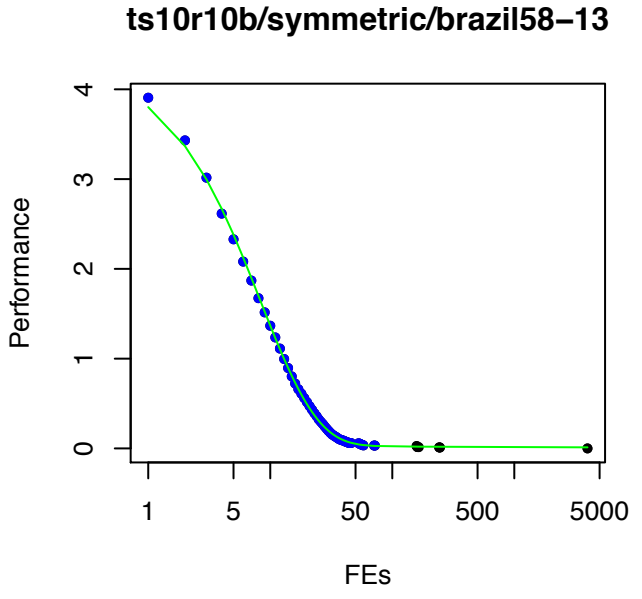
100


ts10r10b/symmetric/brazil58−13
Performance
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4
1
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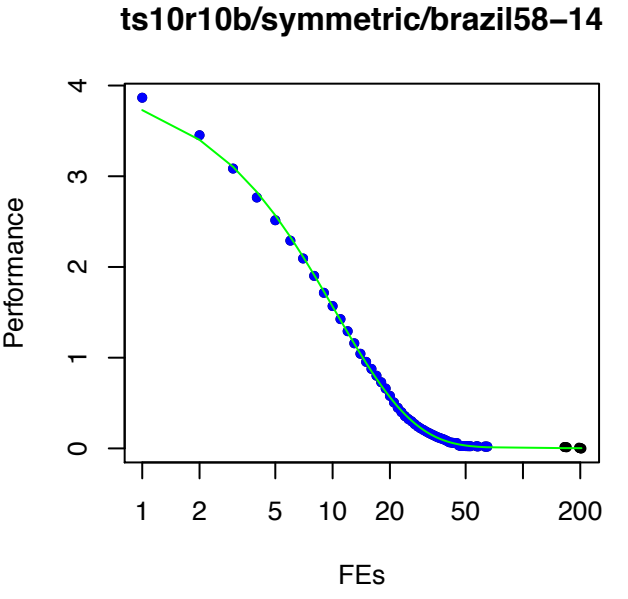
500
5000
FEs


ts10r10b/symmetric/brazil58−14
Performance
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1
2
5
10
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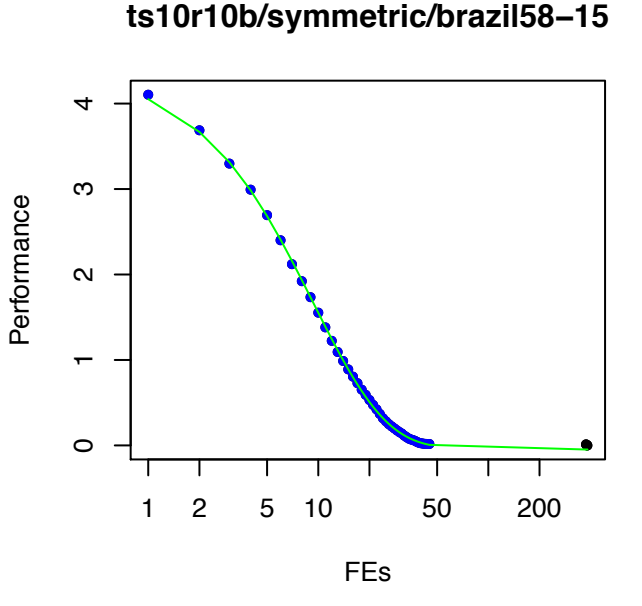
50
200
FEs


ts10r10b/symmetric/brazil58−15
Performance
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4
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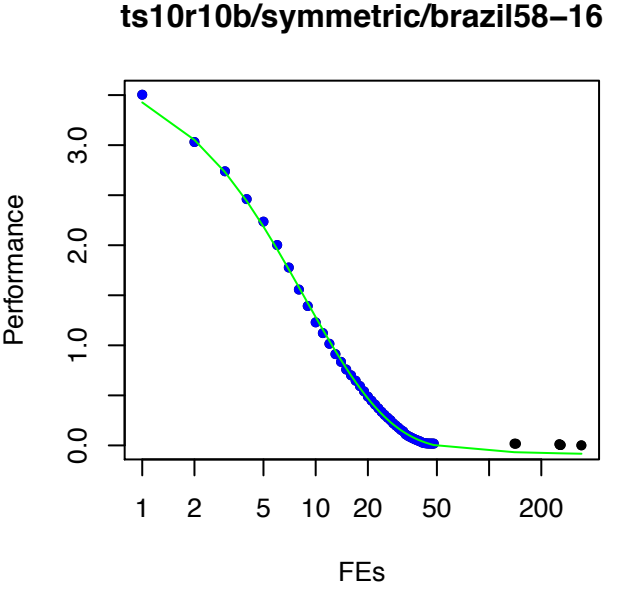
2
5
10
50
200
FEs


ts10r10b/symmetric/brazil58−16
Performance
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3.0
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2
5
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20
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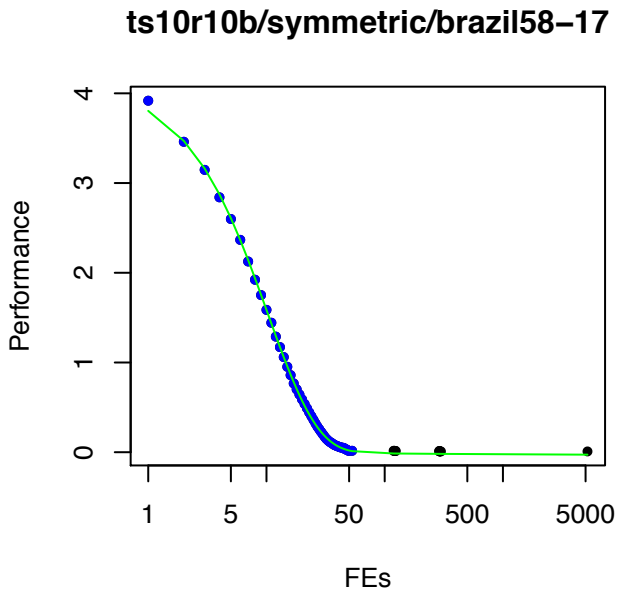
FEs


ts10r10b/symmetric/brazil58−17
Performance
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3
4
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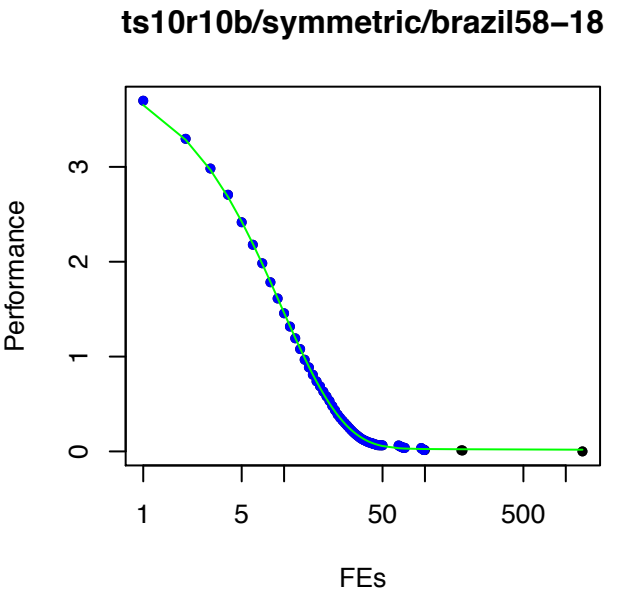
5000
FEs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Performance
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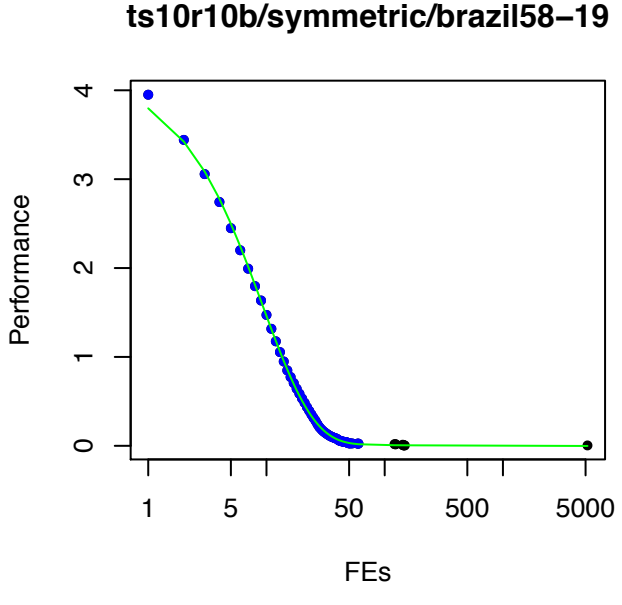
FEs


ts10r10b/symmetric/brazil58−19
Performance
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3
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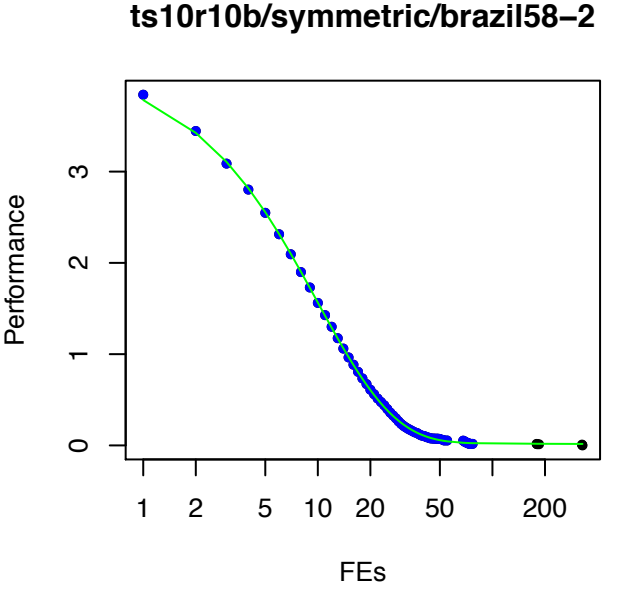
FEs


ts10r10b/symmetric/brazil58−2
Performance
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2
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2
5
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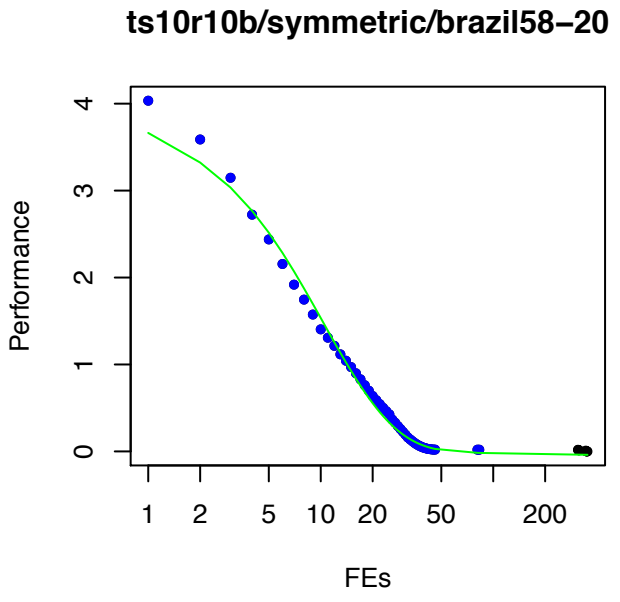
20
50
200
FEs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Performance
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3
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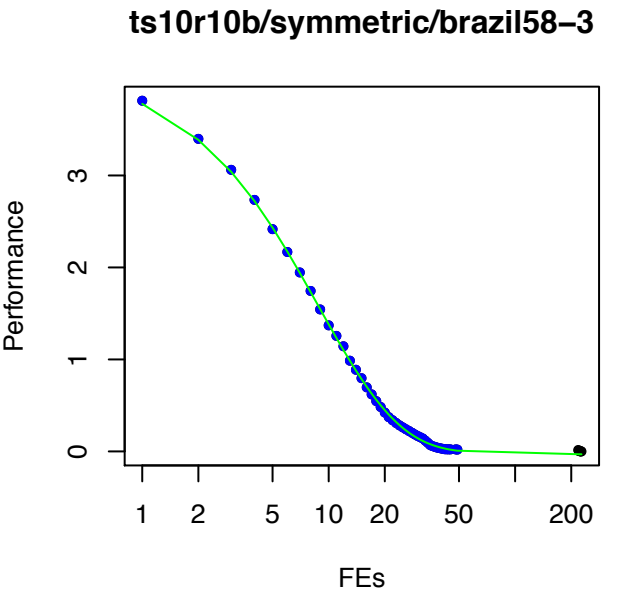
1
2
5
10
20
50
200
FEs


ts10r10b/symmetric/brazil58−3
Performance
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1
2
5
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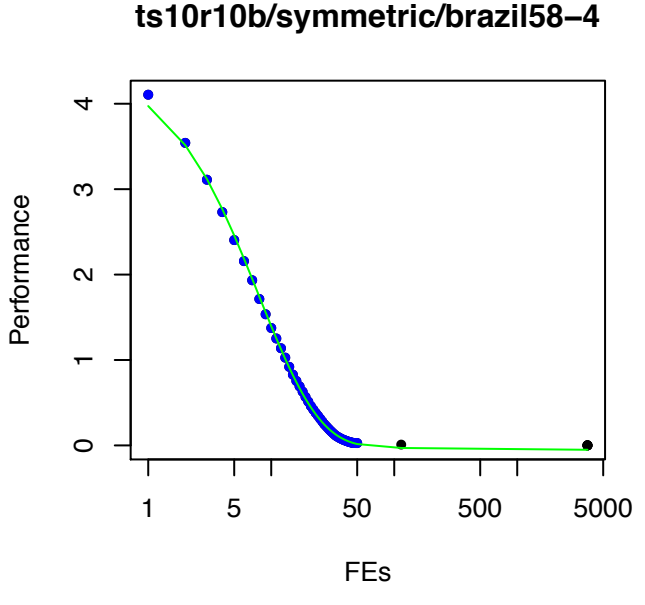
200
FEs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Performance
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3
4
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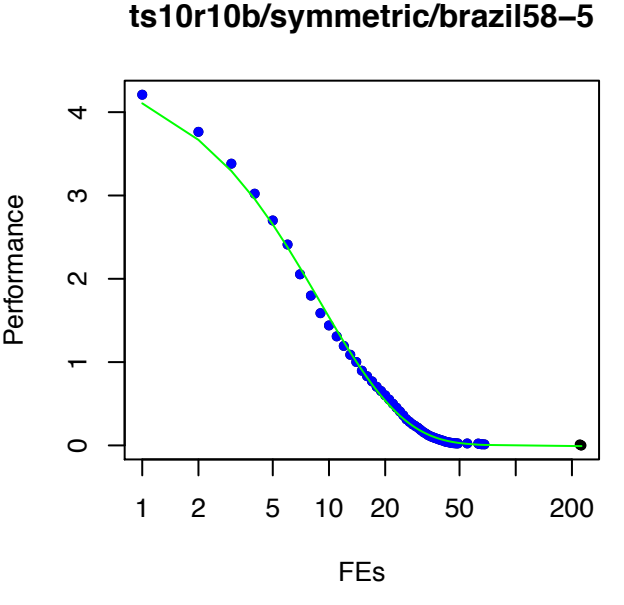
5000
FEs


ts10r10b/symmetric/brazil58−5
Performance
0
1
2
3
4
1
2
5
10
20
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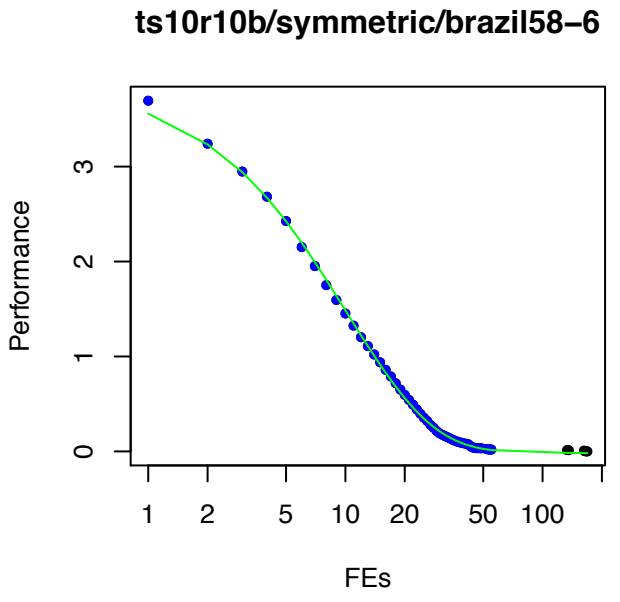
200
FEs


ts10r10b/symmetric/brazil58−6
Performance
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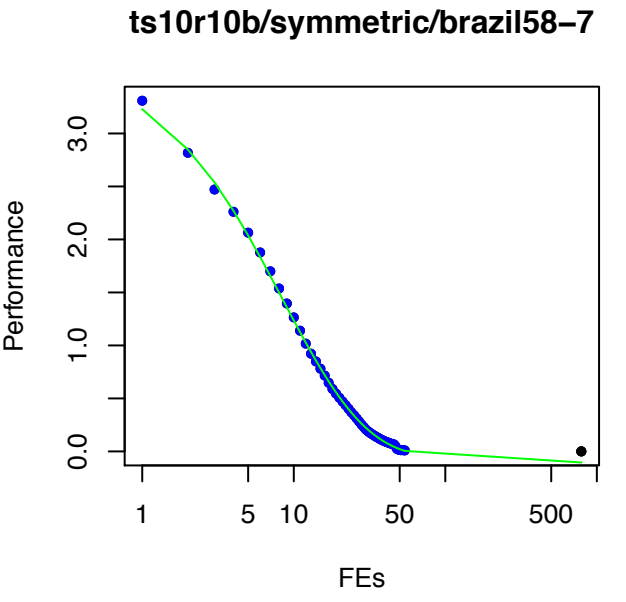
2
3
1
2
5
10
20
50
100
FEs


ts10r10b/symmetric/brazil58−7
Performance
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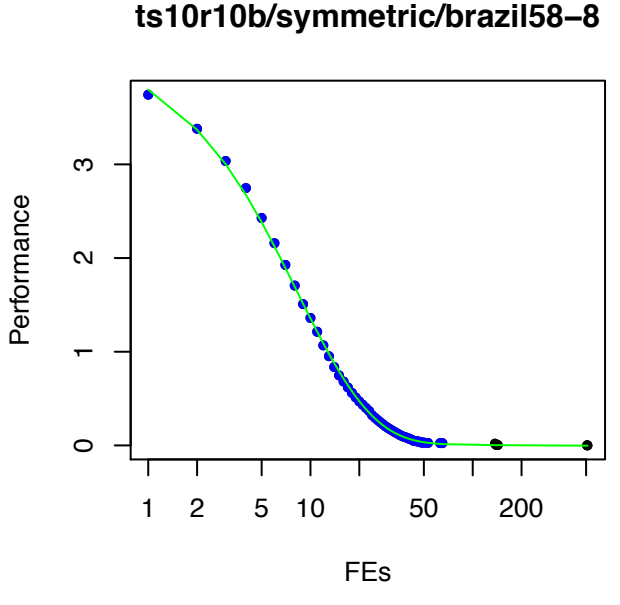
3.0
1
5
10
50
500
FEs


ts10r10b/symmetric/brazil58−8
Performance
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3
1
2
5
10
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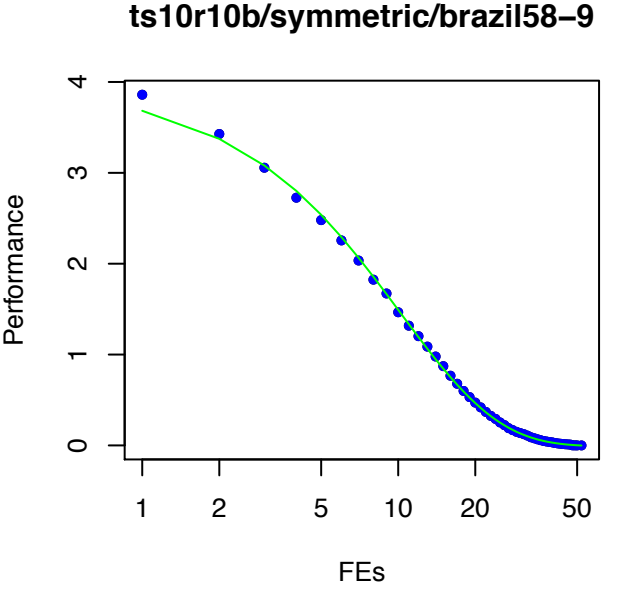
200
FEs


ts10r10b/symmetric/brazil58−9
Performance
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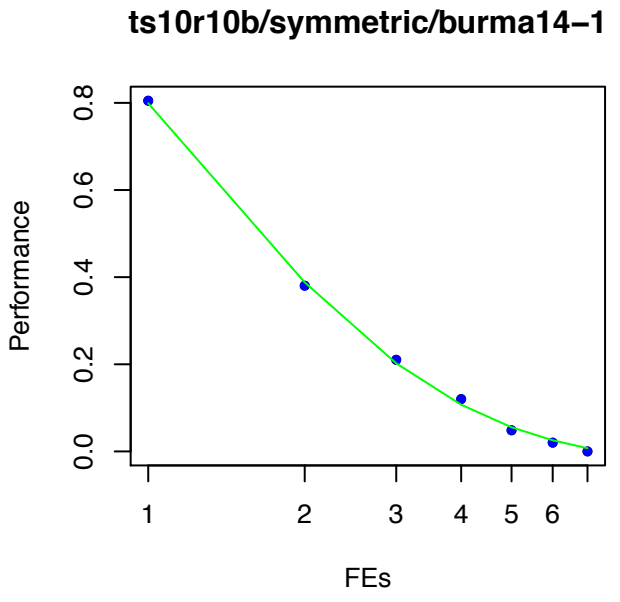
2
3
4
1
2
5
10
20
50
FEs


ts10r10b/symmetric/burma14−1
Performance
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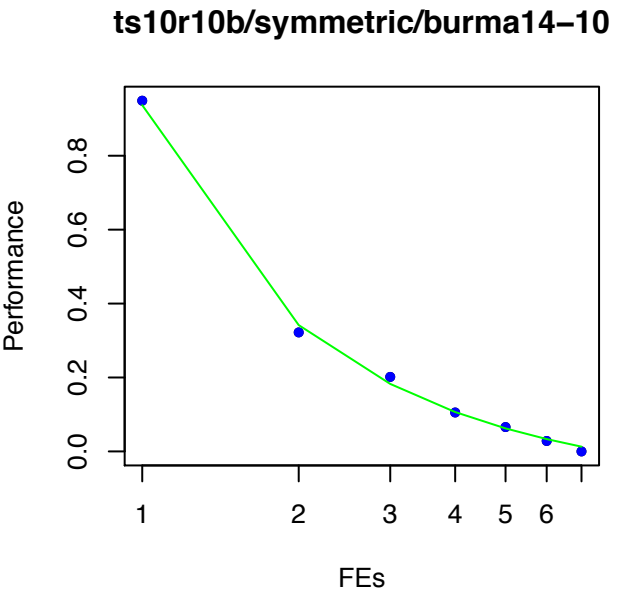
0.6
0.8
1
2
3
4
5
6
FEs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0.4
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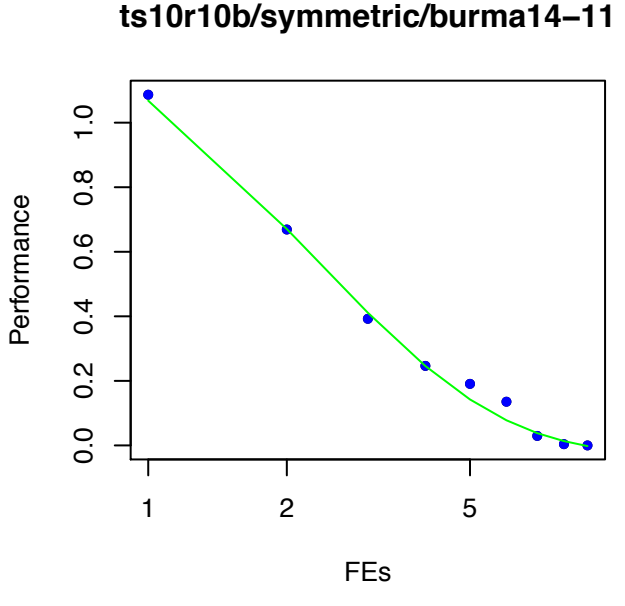
0.8
1
2
3
4
5
6
FEs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Performance
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0.4
0.6
0.8
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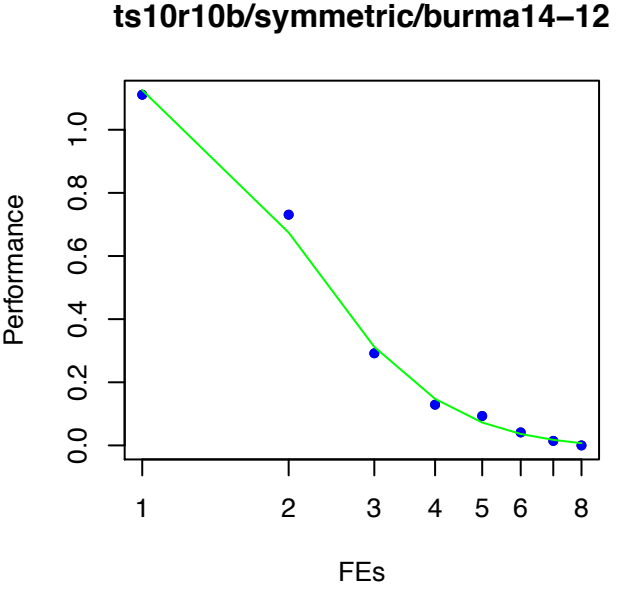
1
2
5
FEs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Performance
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1
2
3
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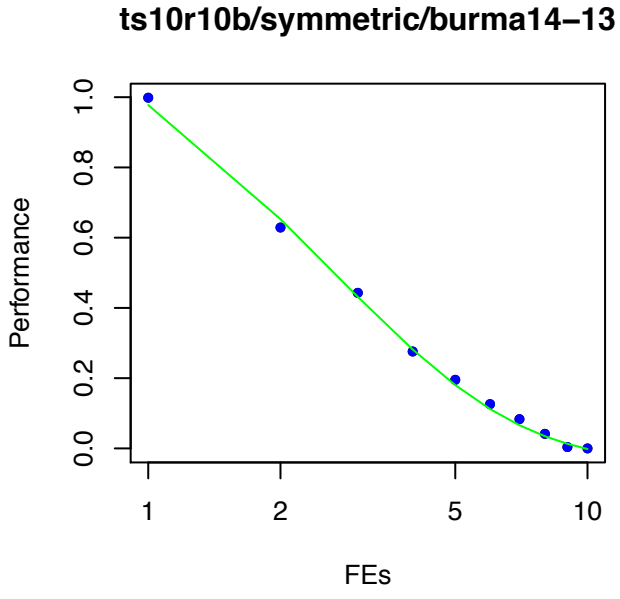
5
6
8
FEs


ts10r10b/symmetric/burma14−13
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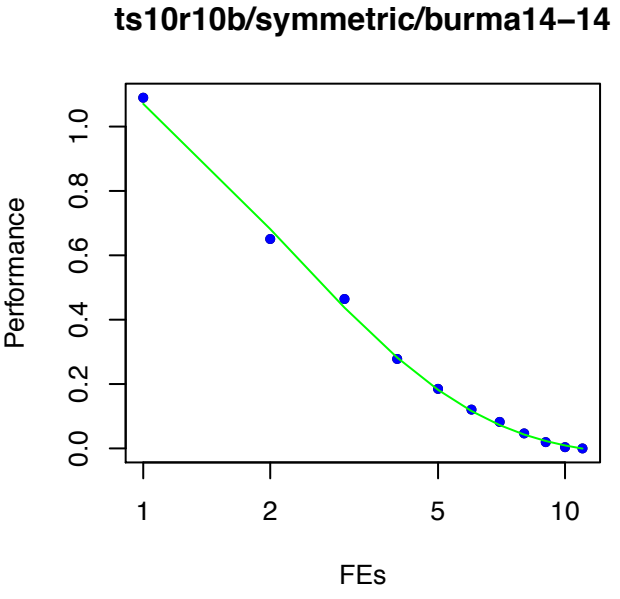
1
2
5
10
FEs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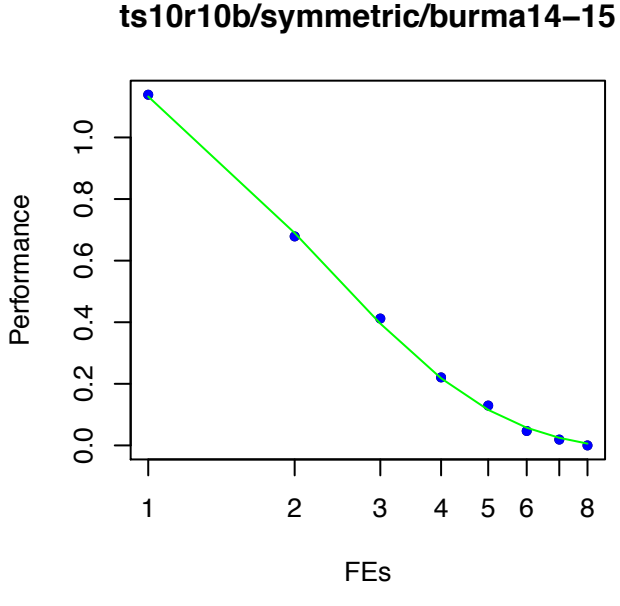
2
5
10
FEs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Performance
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0.8
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2
3
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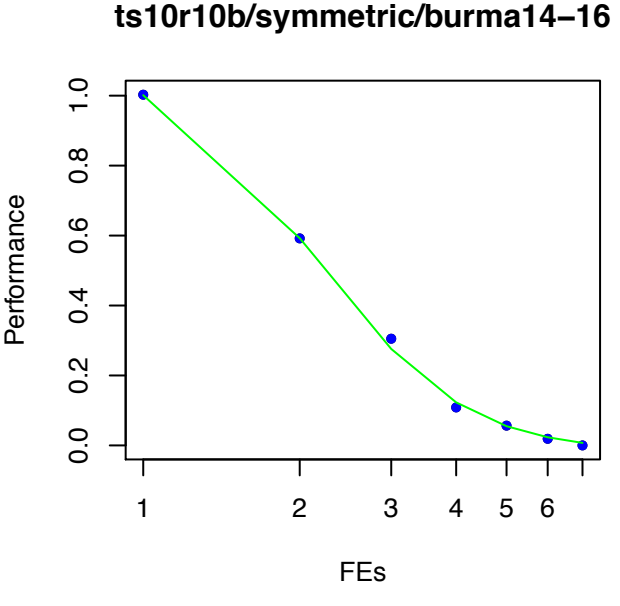
5
6
8
FEs


ts10r10b/symmetric/burma14−16
Performance
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0.8
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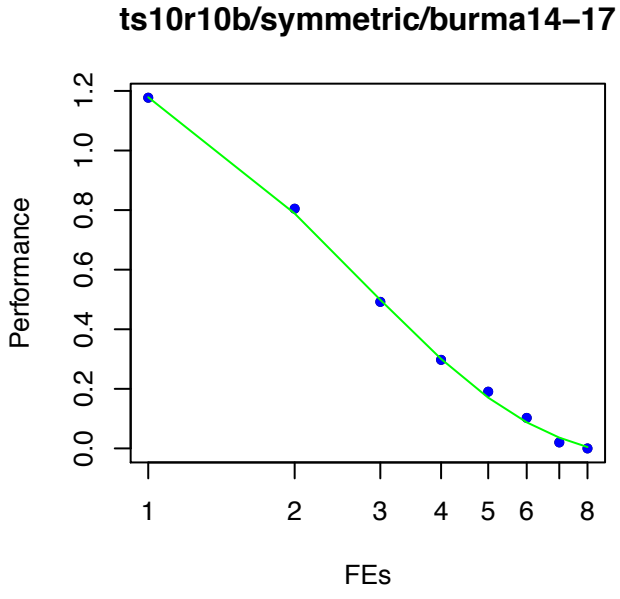
1
2
3
4
5
6
FEs


ts10r10b/symmetric/burma14−17
Performance
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0.4
0.6
0.8
1.0
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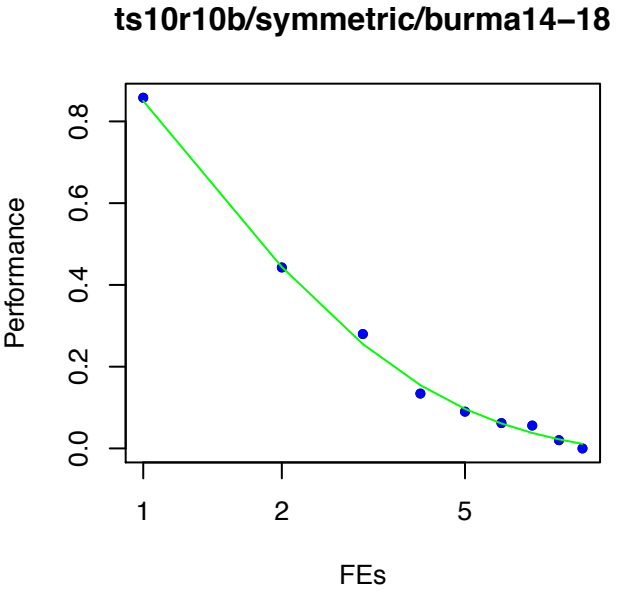
1
2
3
4
5
6
8
FEs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Performance
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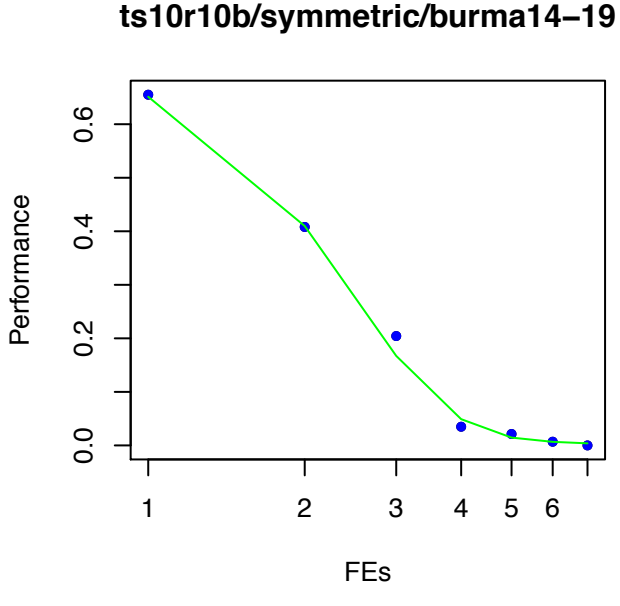
2
5
FEs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Performance
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2
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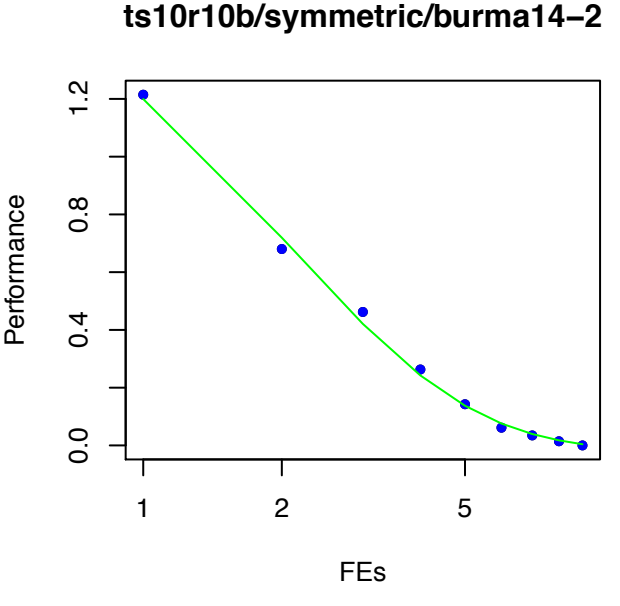
4
5
6
FEs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Performance
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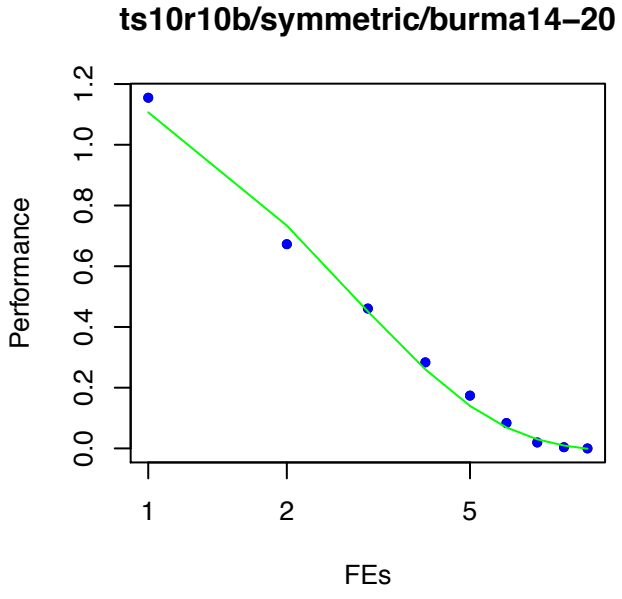
2
5
FEs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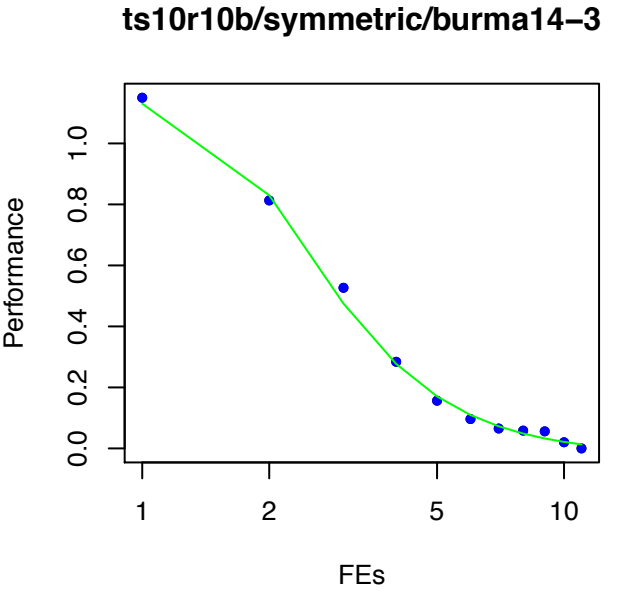
5
FEs


ts10r10b/symmetric/burma14−3
Performance
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2
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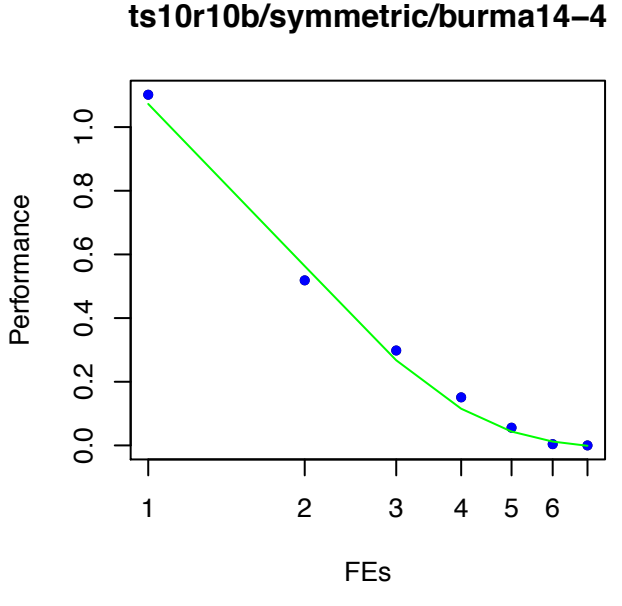
10
FEs


ts10r10b/symmetric/burma14−4
Performance
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4
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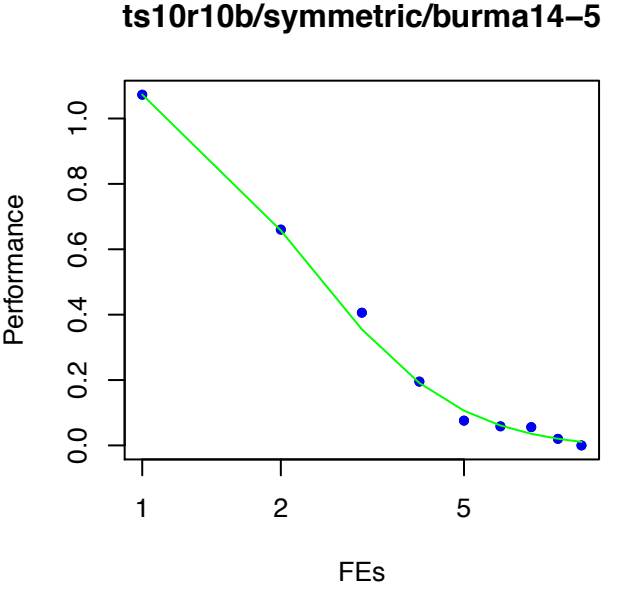
6
FEs


ts10r10b/symmetric/burma14−5
Performance
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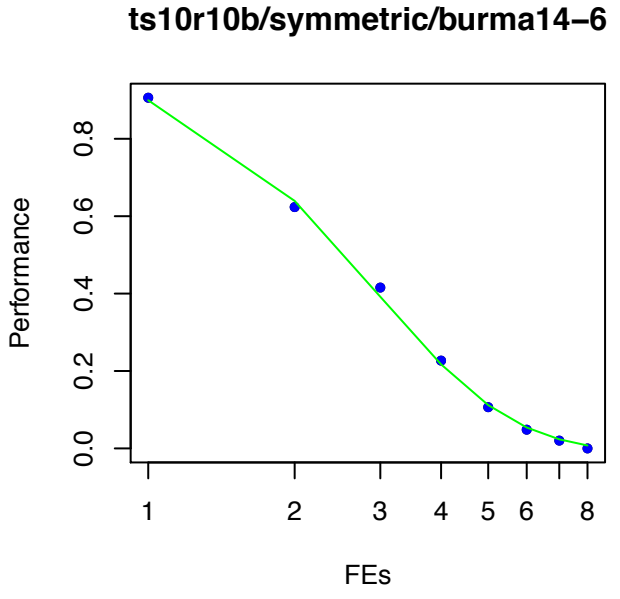
2
5
FEs


ts10r10b/symmetric/burma14−6
Performance
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0.6
0.8
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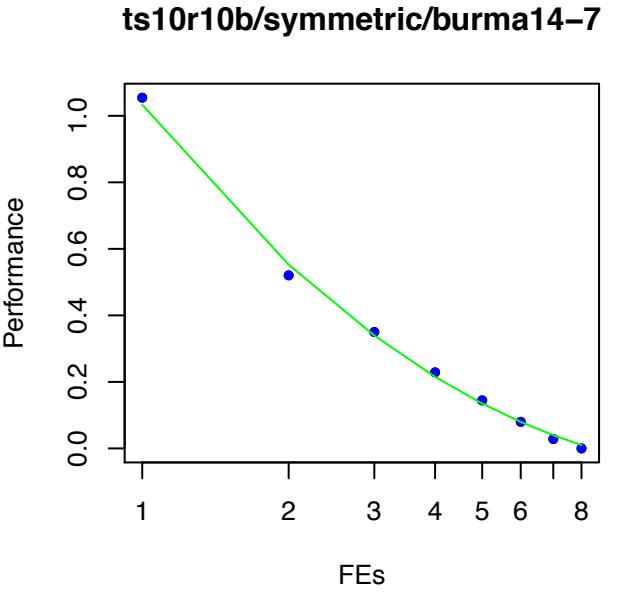
2
3
4
5
6
8
FEs


ts10r10b/symmetric/burma14−7
Performance
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0.4
0.6
0.8
1.0
1
2
3
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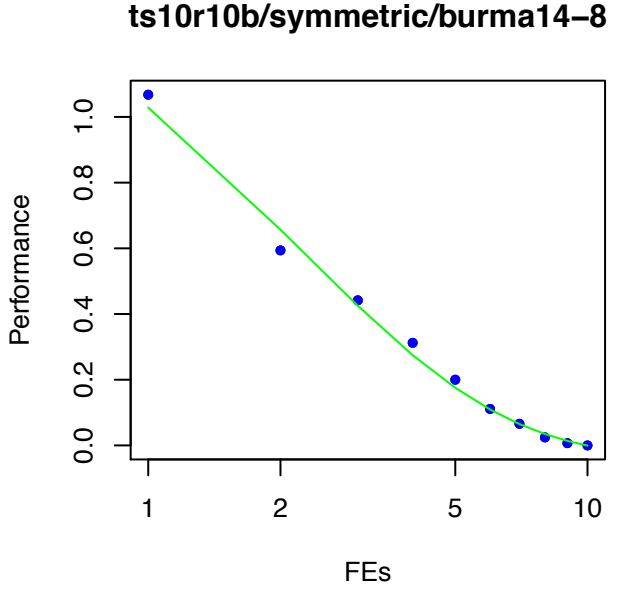
5
6
8
FEs


ts10r10b/symmetric/burma14−8
Performance
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0.6
0.8
1.0
1
2
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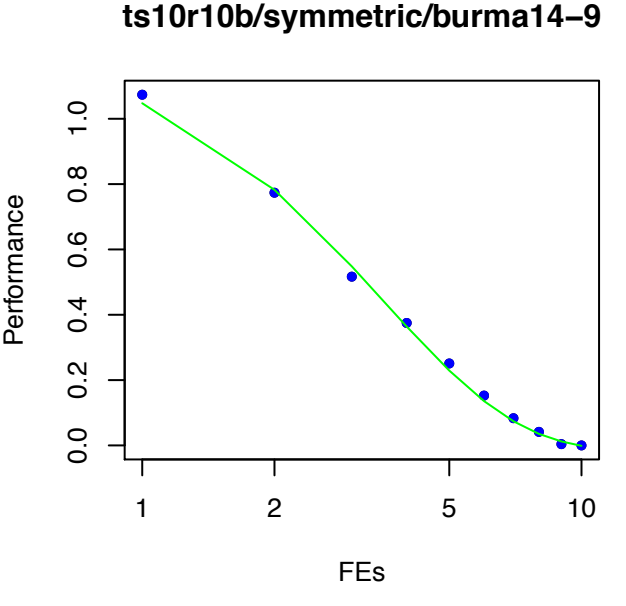
10
FEs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Performance
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2
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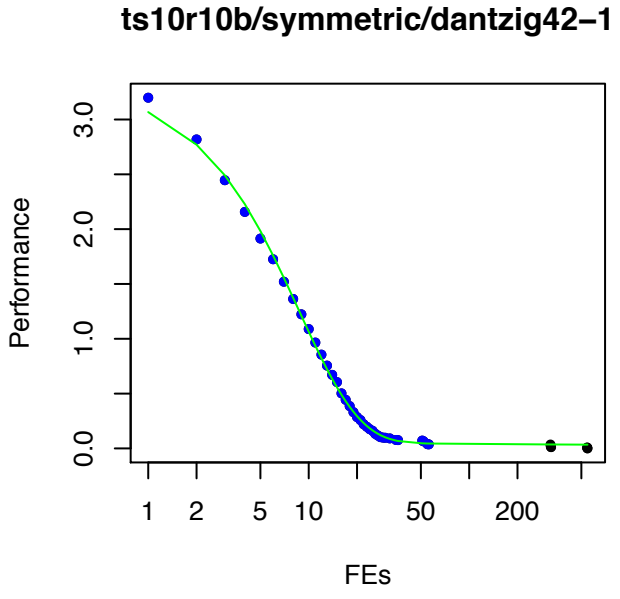
FEs


ts10r10b/symmetric/dantzig42−1
Performance
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1
2
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10
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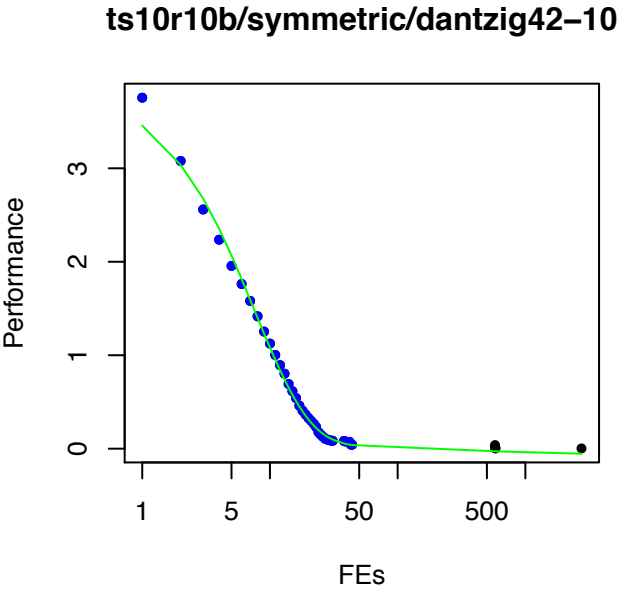
200
FEs


ts10r10b/symmetric/dantzig42−10
Performance
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2
3
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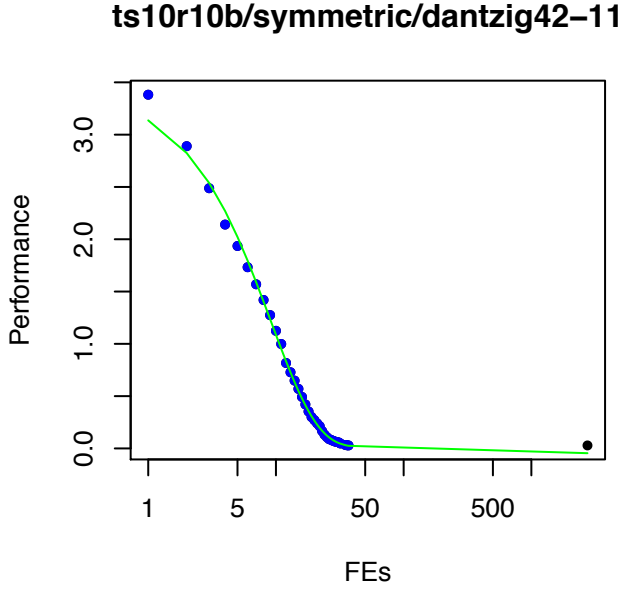
500
FEs


ts10r10b/symmetric/dantzig42−11
Performance
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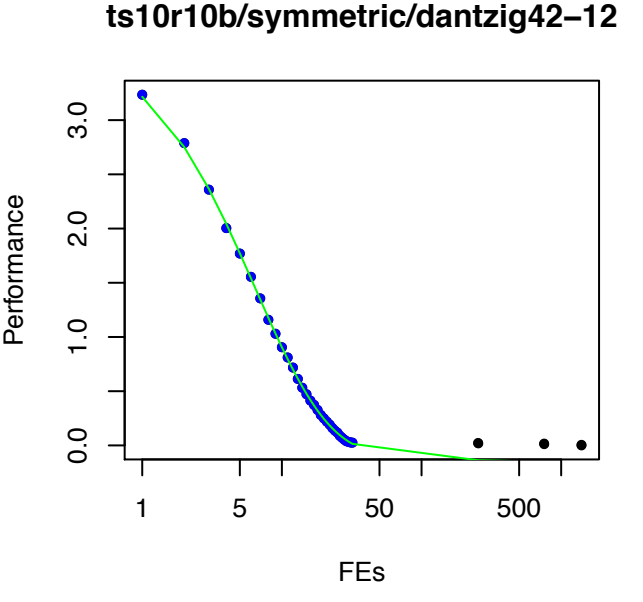
2.0
3.0
1
5
50
500
FEs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Performance
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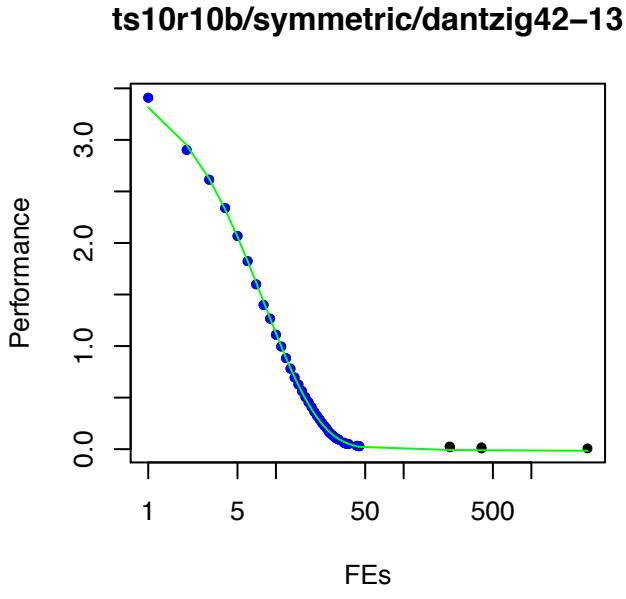
FEs


ts10r10b/symmetric/dantzig42−13
Performance
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2.0
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1
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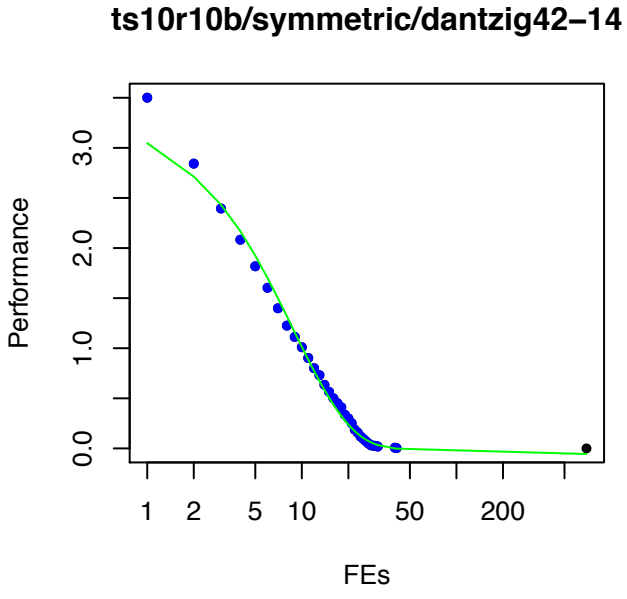
500
FEs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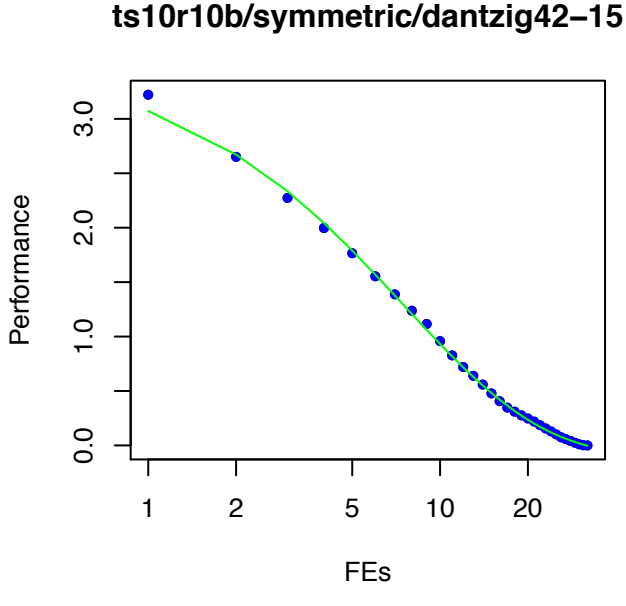
FEs


ts10r10b/symmetric/dantzig42−15
Performance
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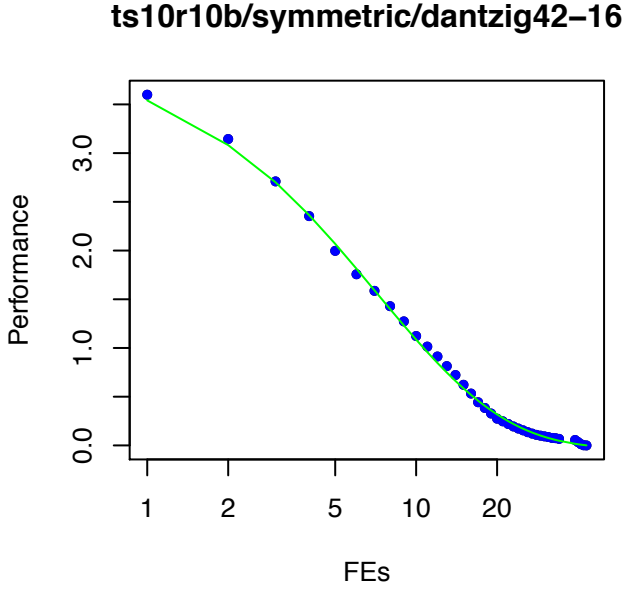
FEs


ts10r10b/symmetric/dantzig42−16
Performance
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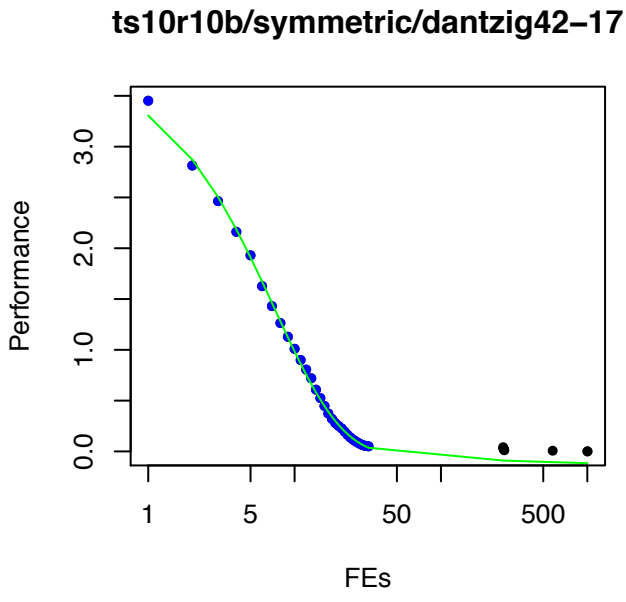
20
FEs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Performance
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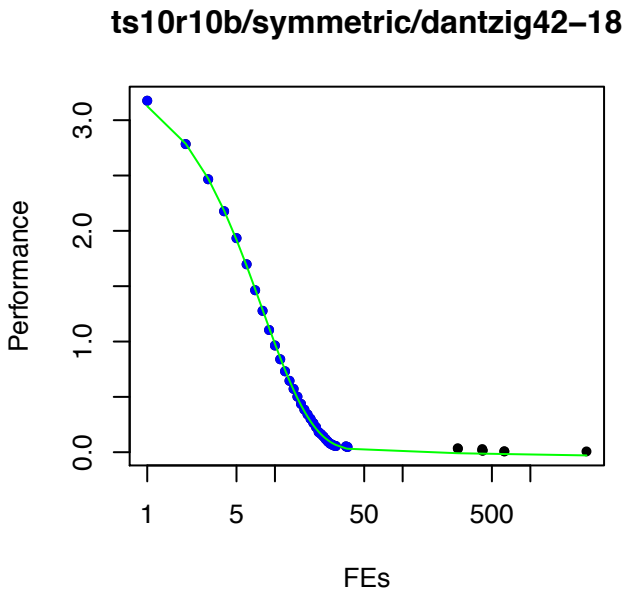
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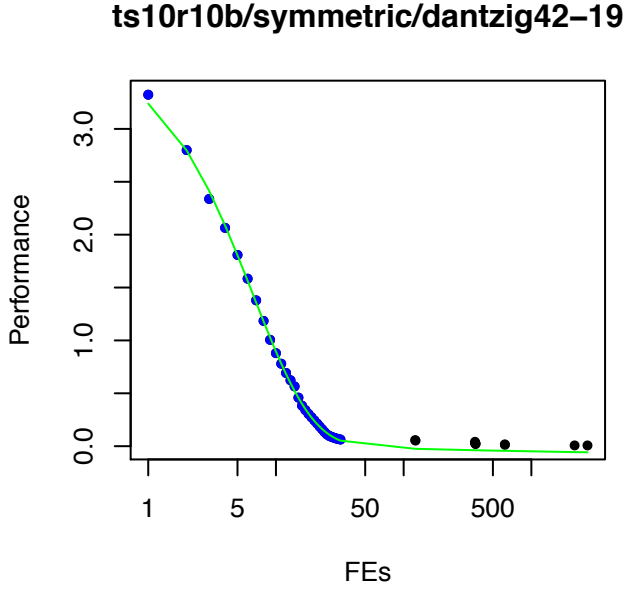
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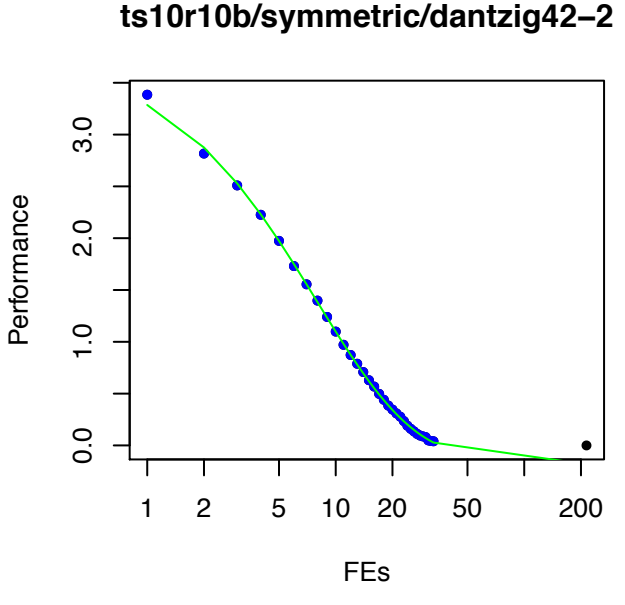
FEs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20
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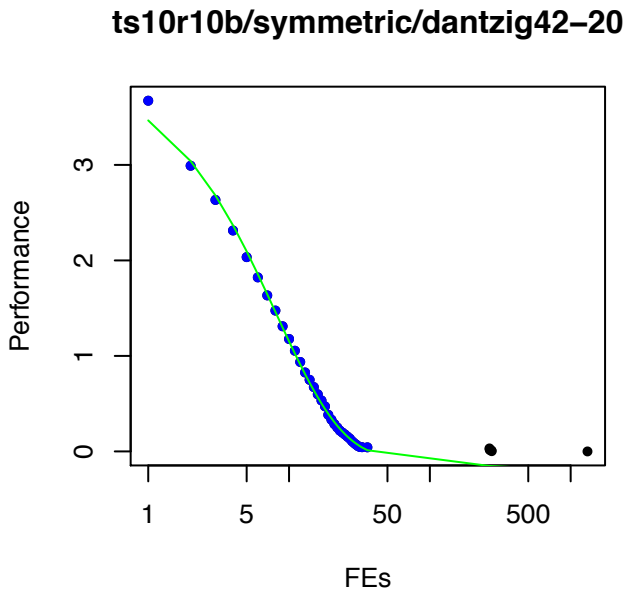
FEs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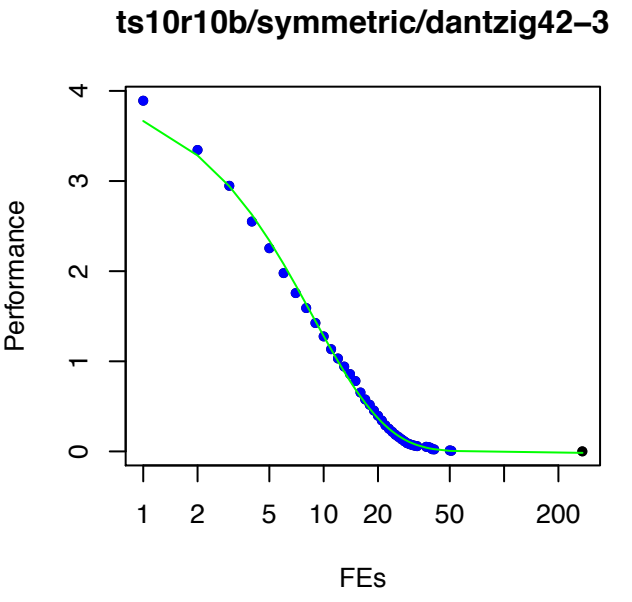
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Performance
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1
2
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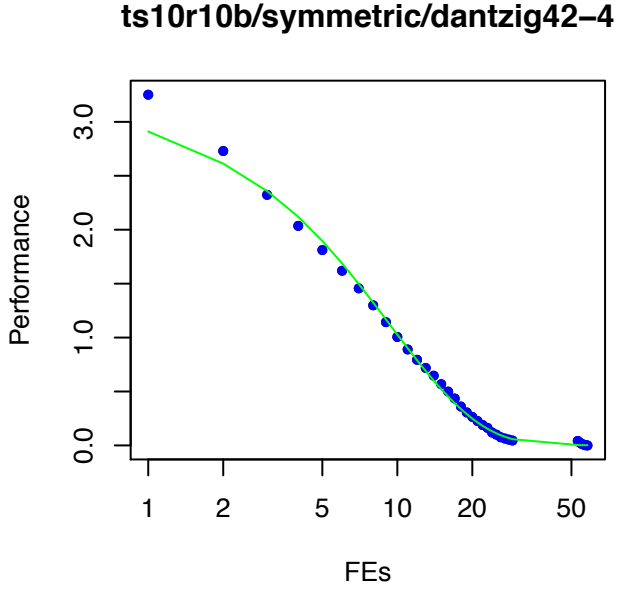
200
FEs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10
20
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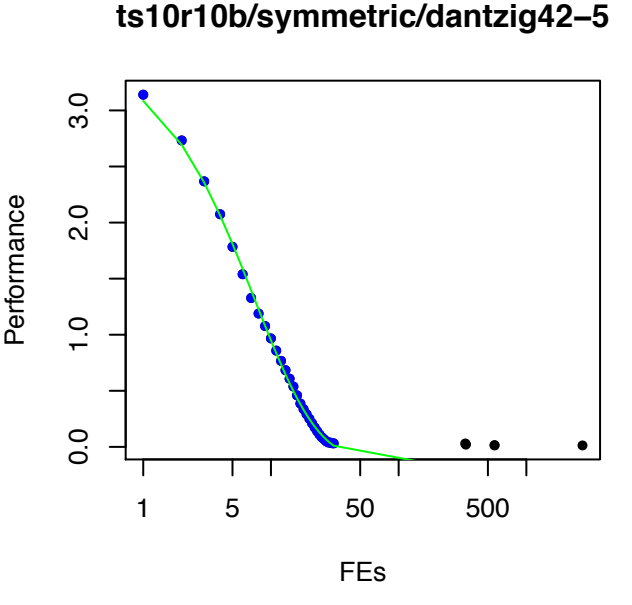
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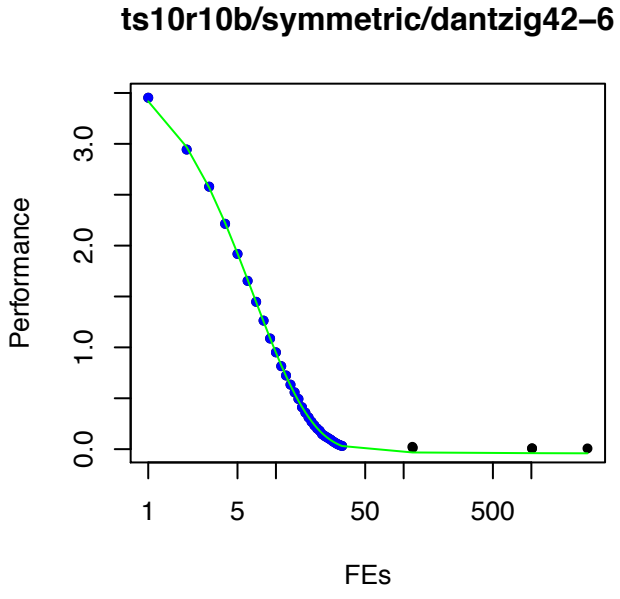
FEs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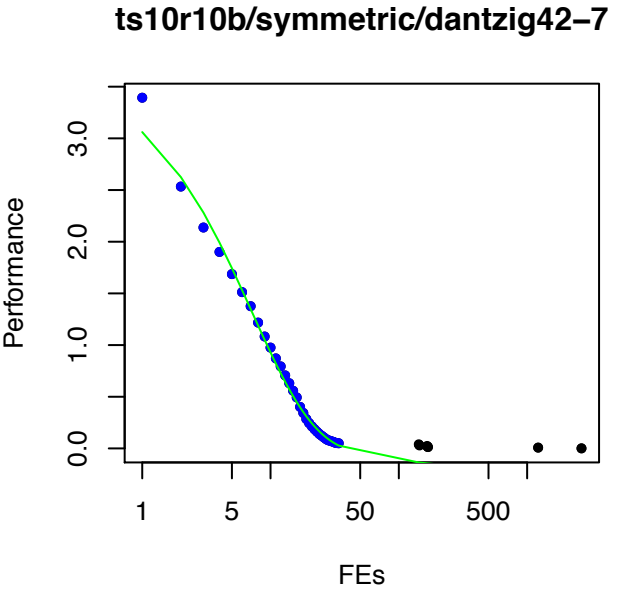
FEs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Performance
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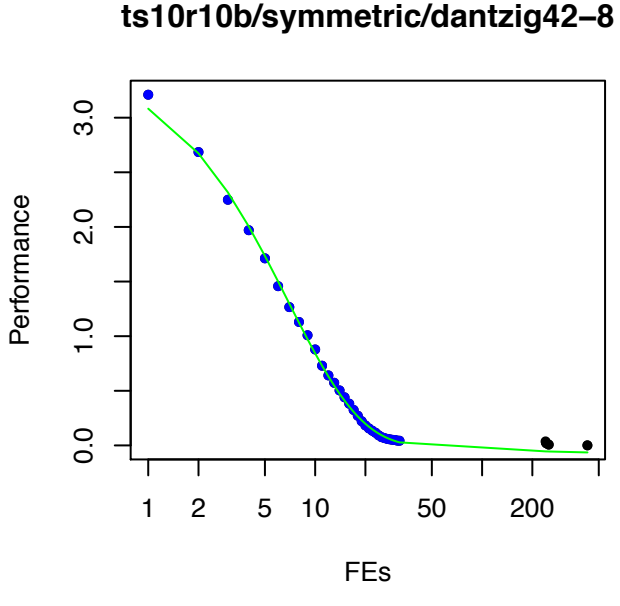
FEs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Performance
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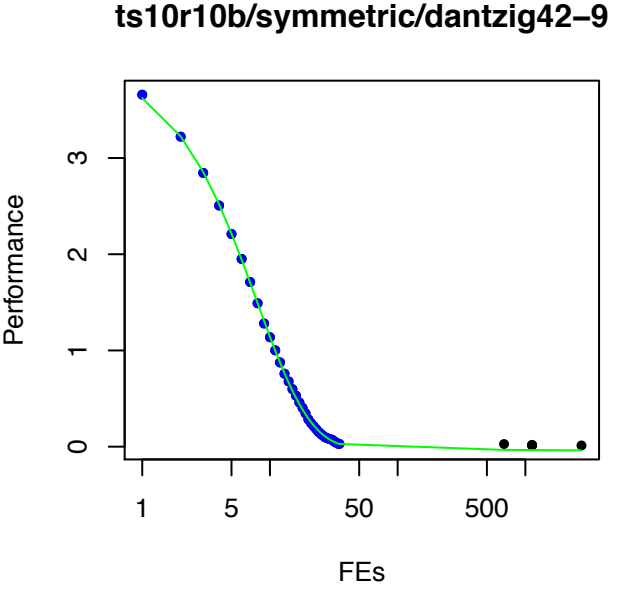
200
FEs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Performance
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2
3
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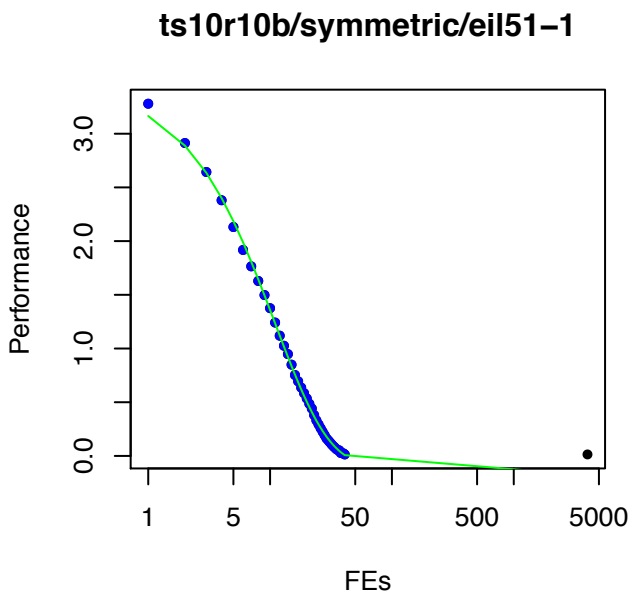
FEs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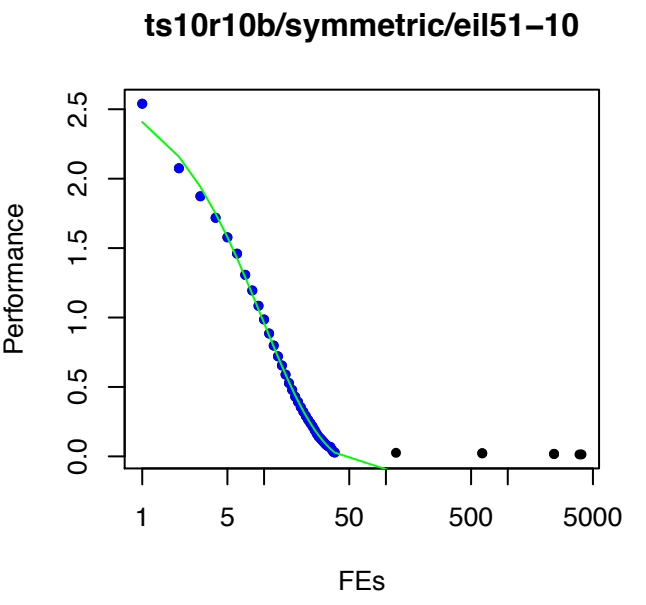
FEs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1
5
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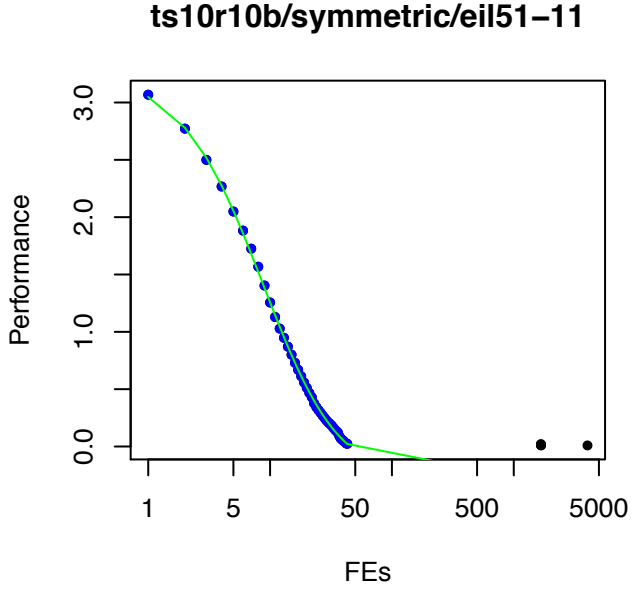
FEs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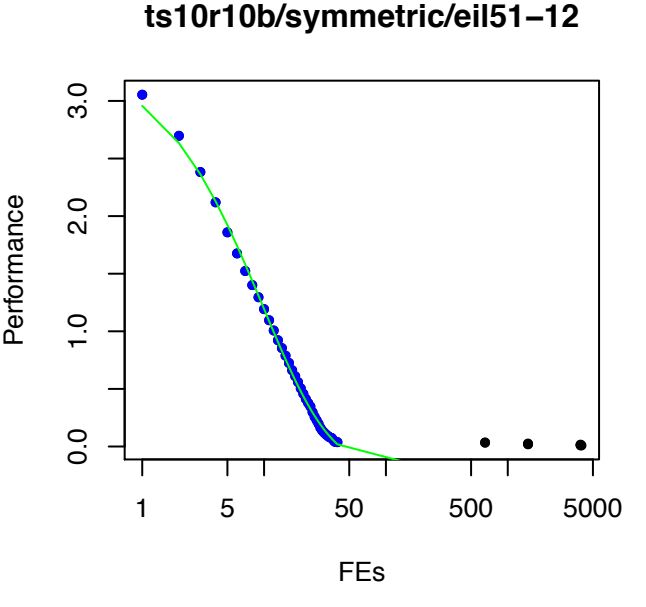
500
5000
FEs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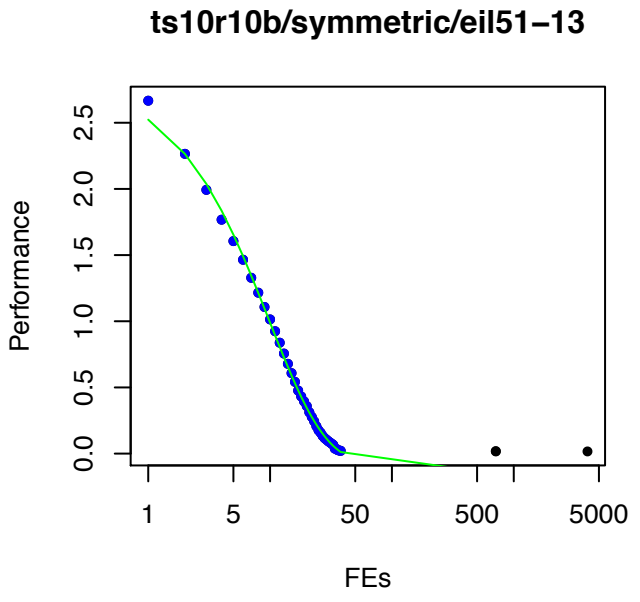
500
5000
FEs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1
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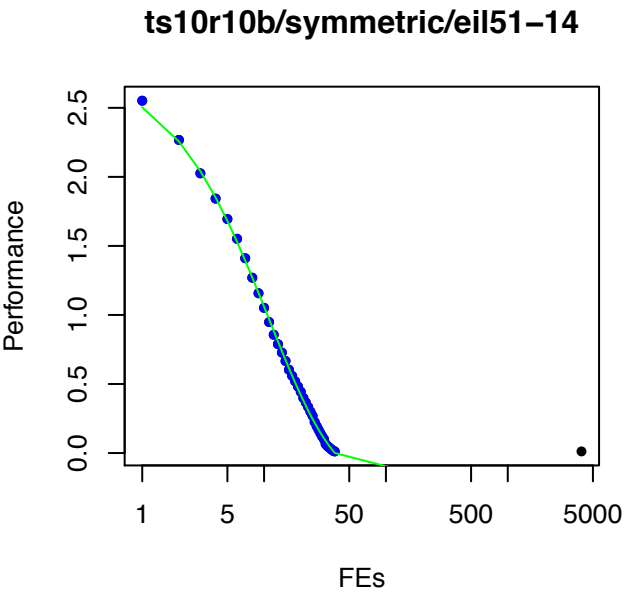
5000
FEs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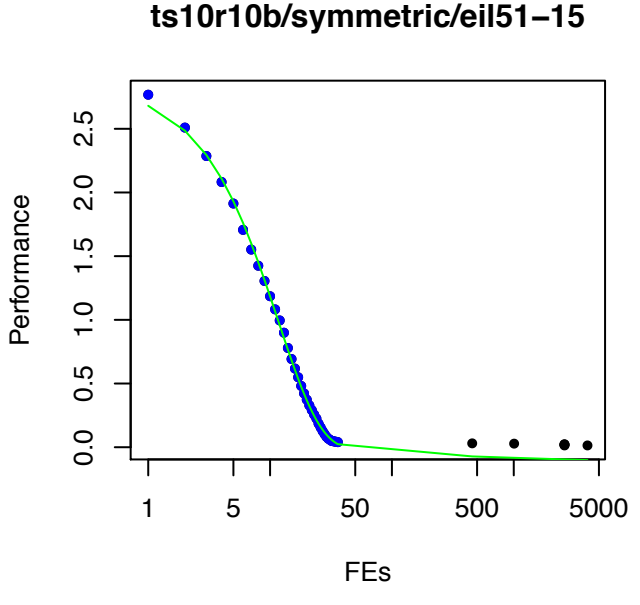
FEs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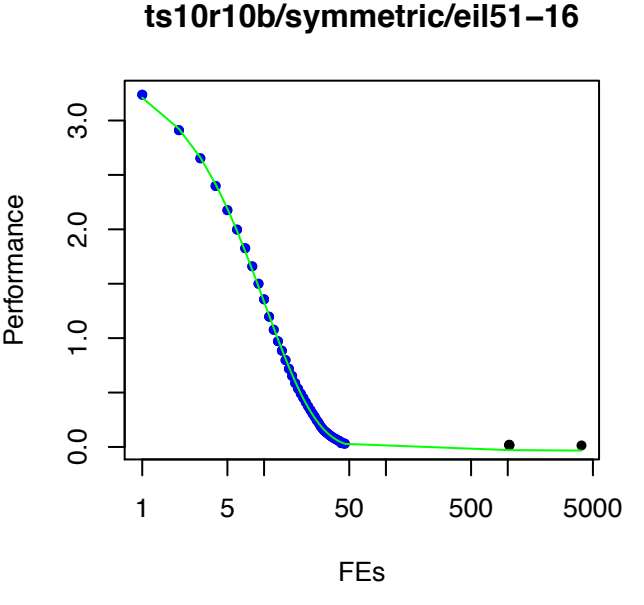
FEs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Performance
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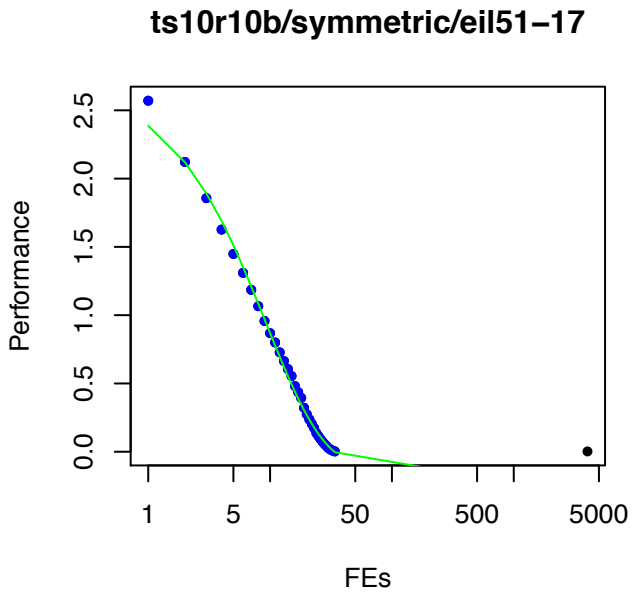
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Performance
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1
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50
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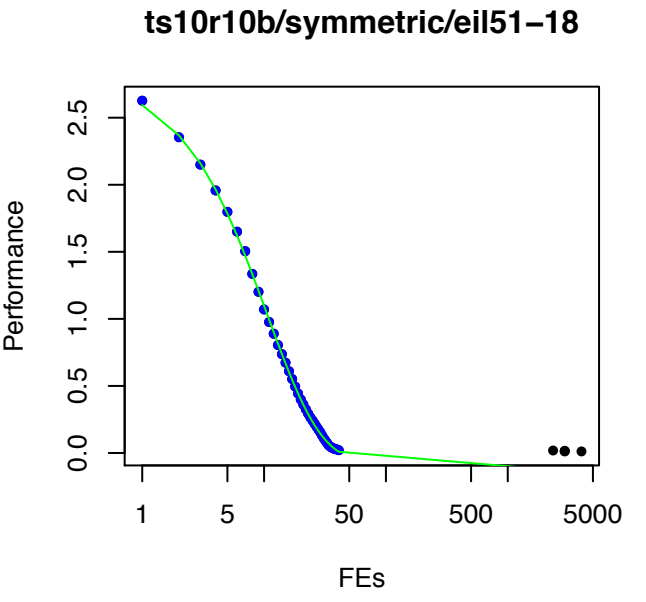
5000
FEs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Performance
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2.5
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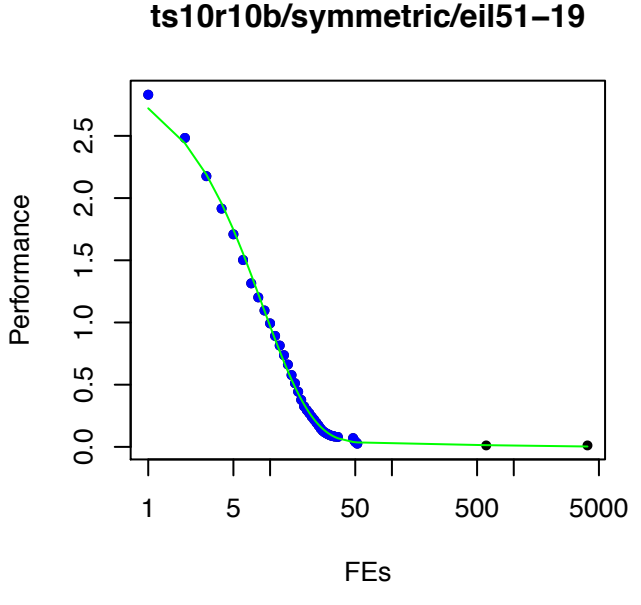
FEs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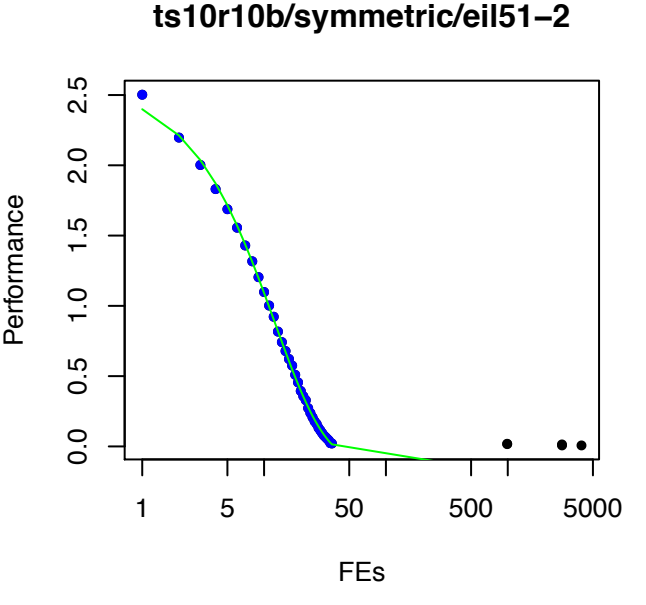
2.5
1
5
50
500
5000
FEs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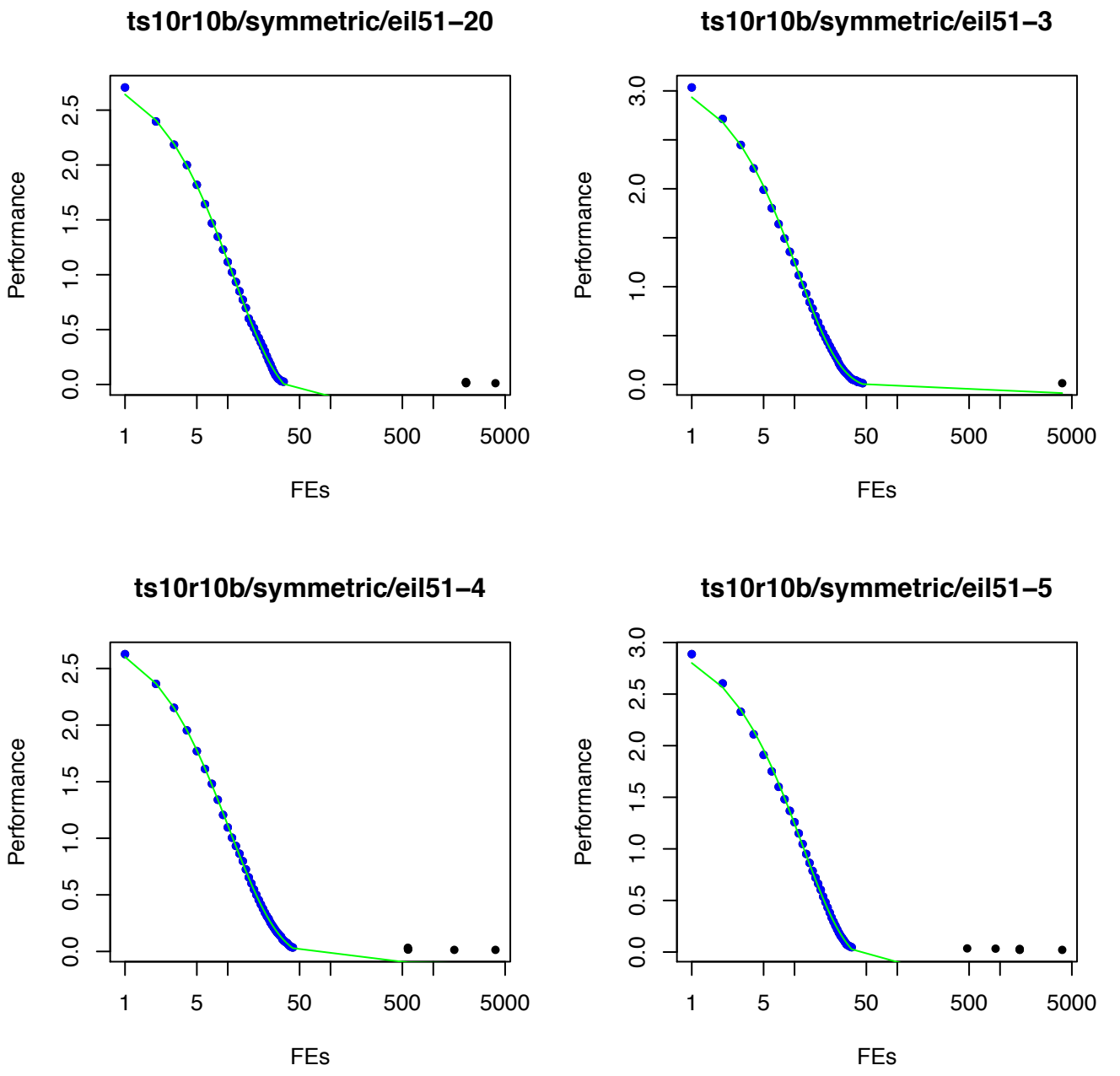
FEs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ts10r10b/symmetric/eil51−3
ts10r10b/symmetric/eil51−4
ts10r10b/symmetric/eil51−5
Performance
FEs
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2.5
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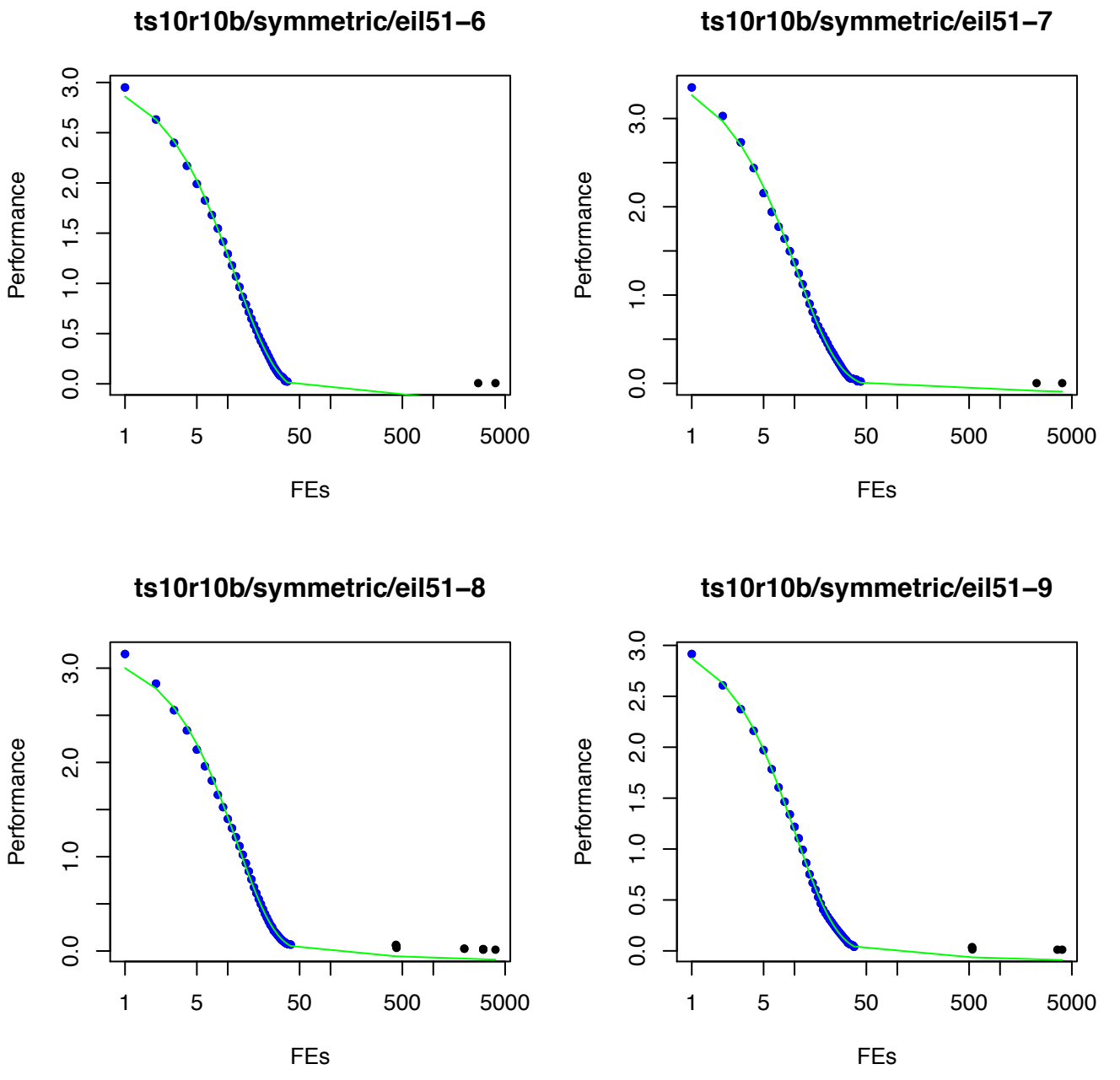
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ts10r10b/symmetric/eil51−8
ts10r10b/symmetric/eil51−9
Performance
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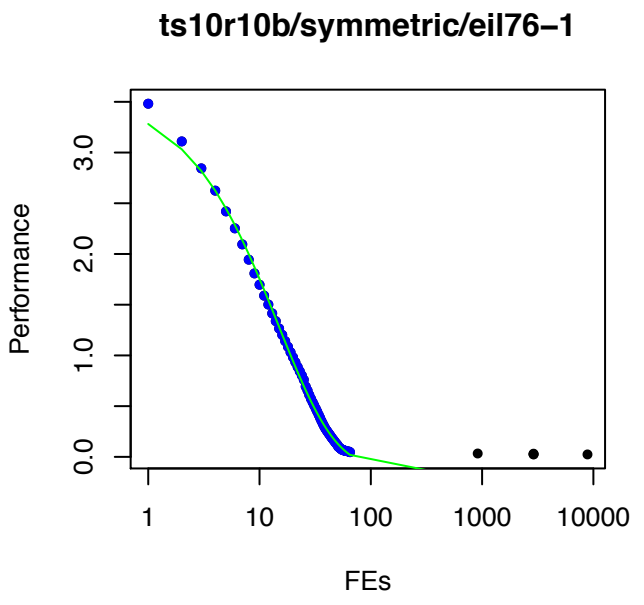
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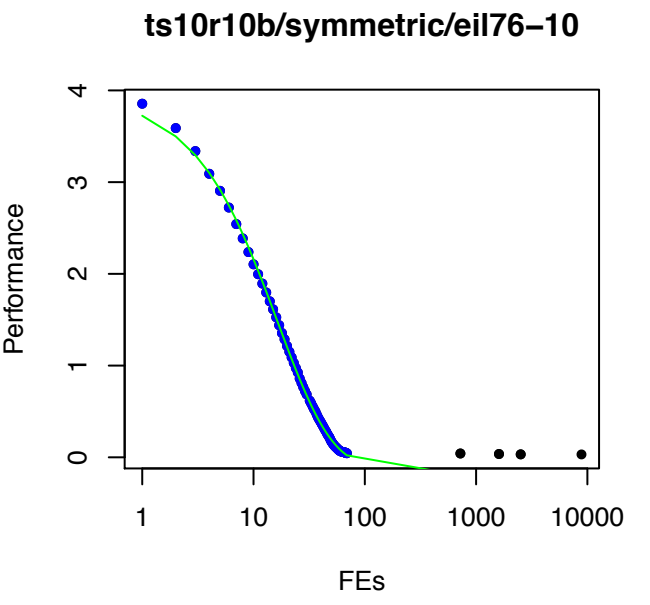
FEs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Performance
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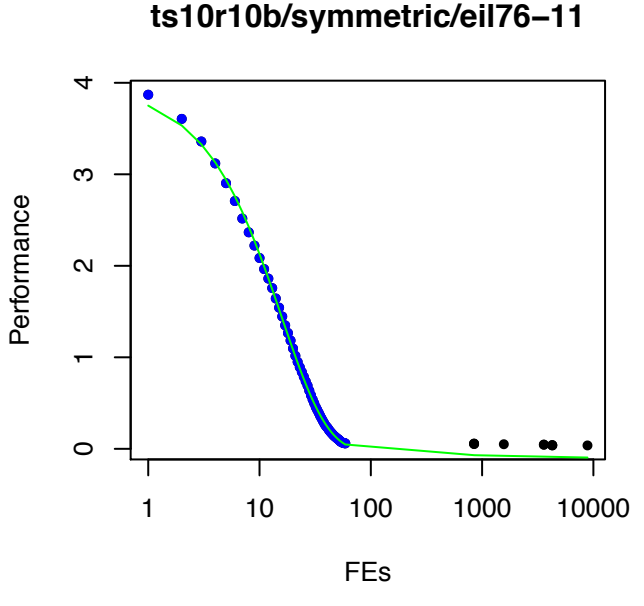
10000
FEs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Performance
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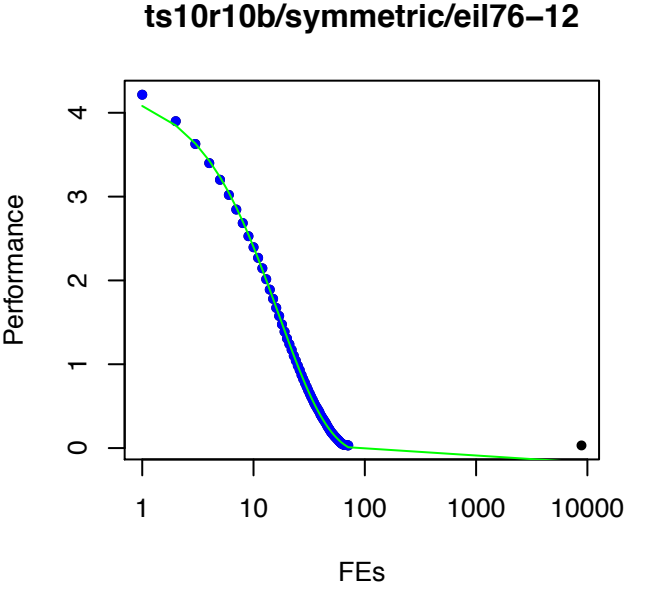
FEs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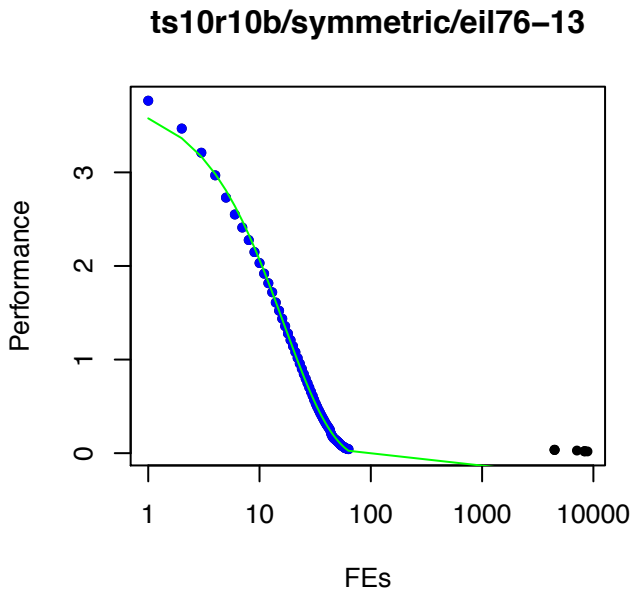
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Performance
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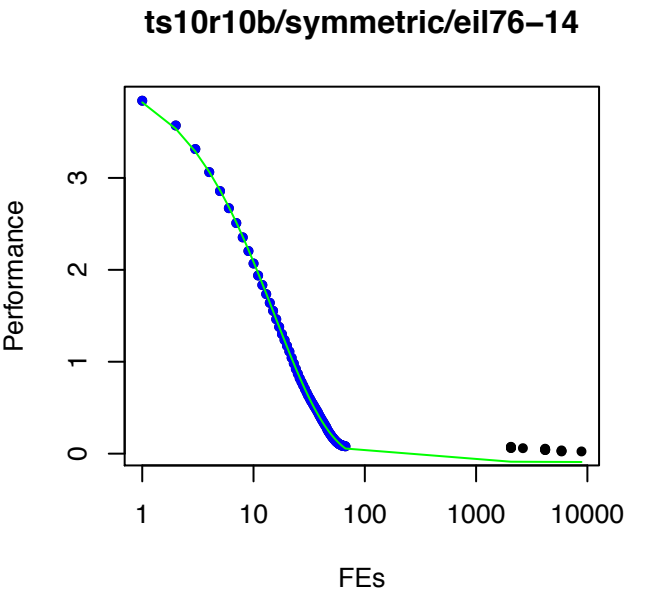
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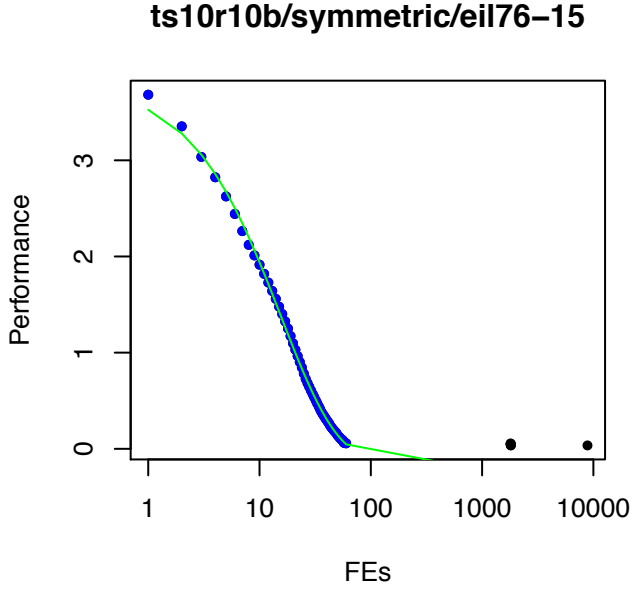
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Performance
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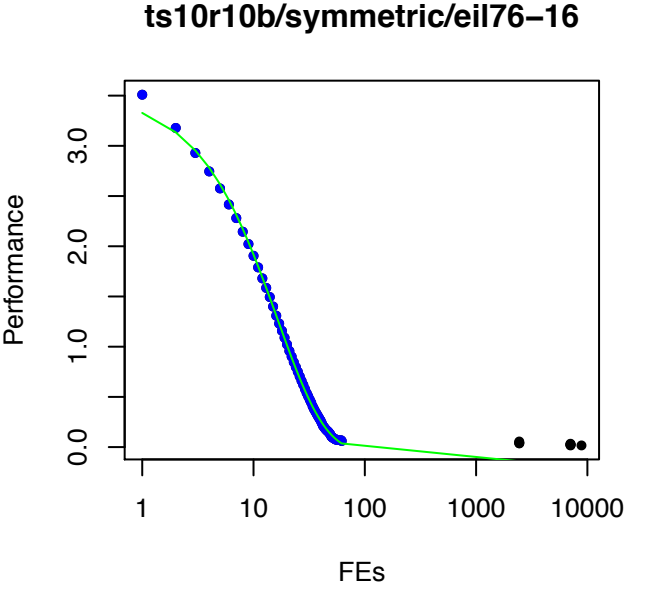
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Performance
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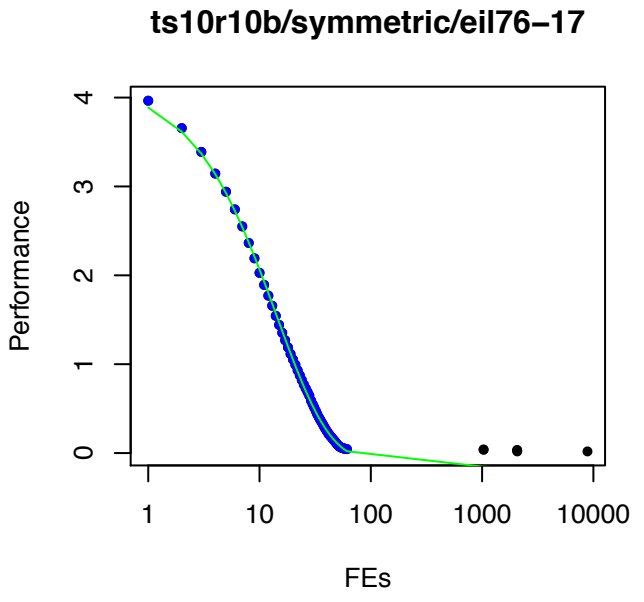
FEs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Performance
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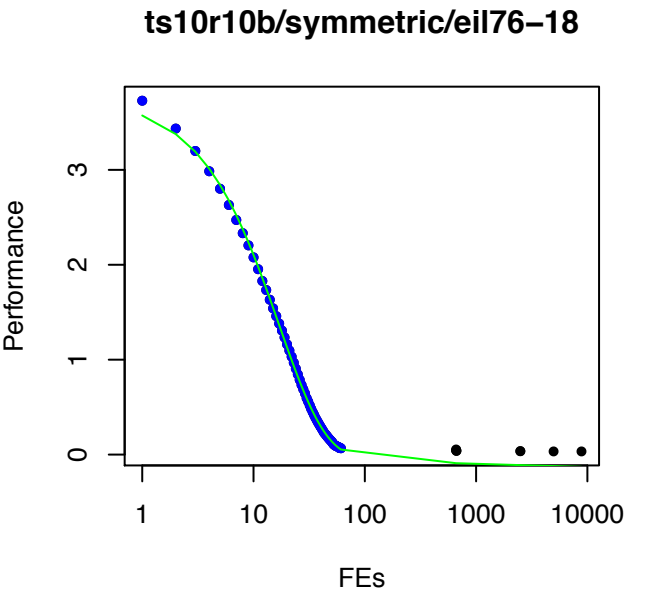
FEs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Performance
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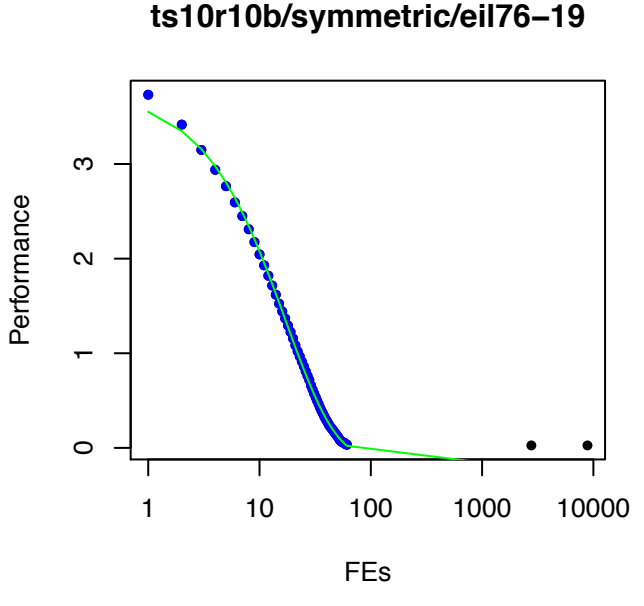
FEs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Performance
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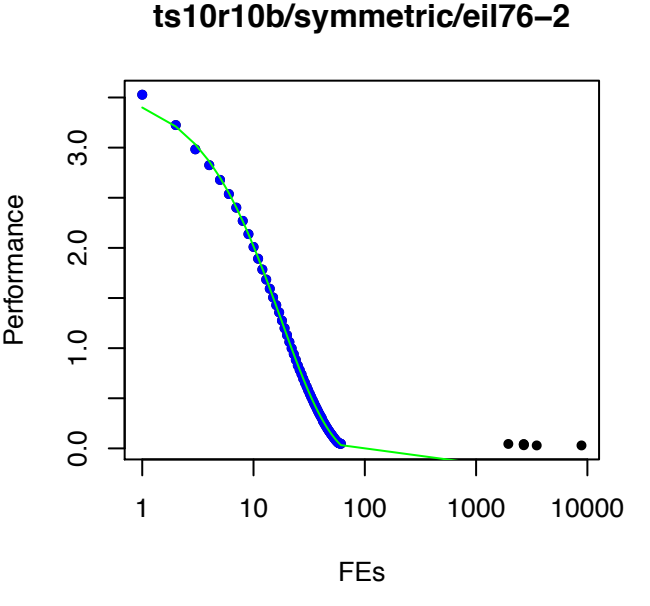
FEs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Performance
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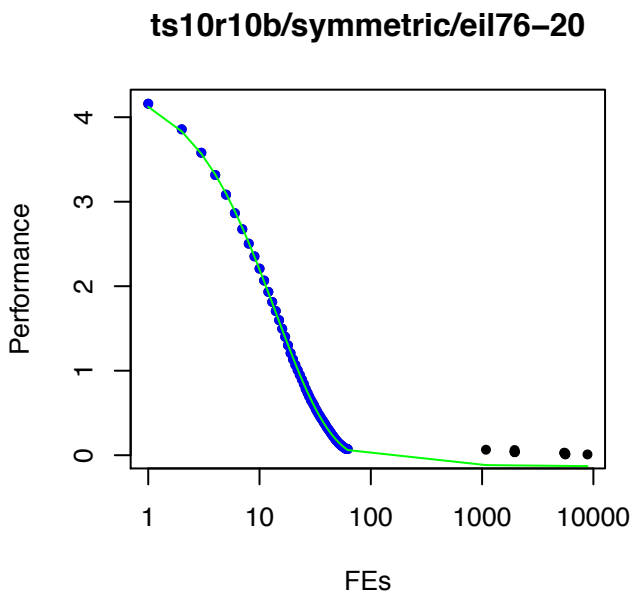
FEs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Performance
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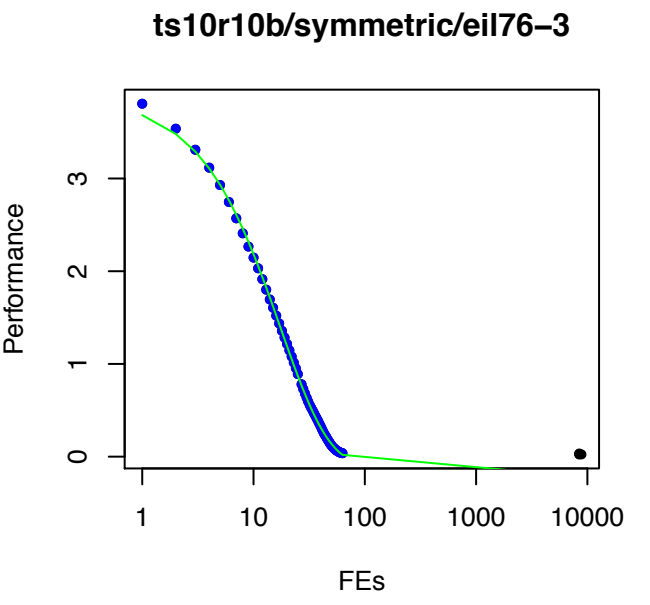
FEs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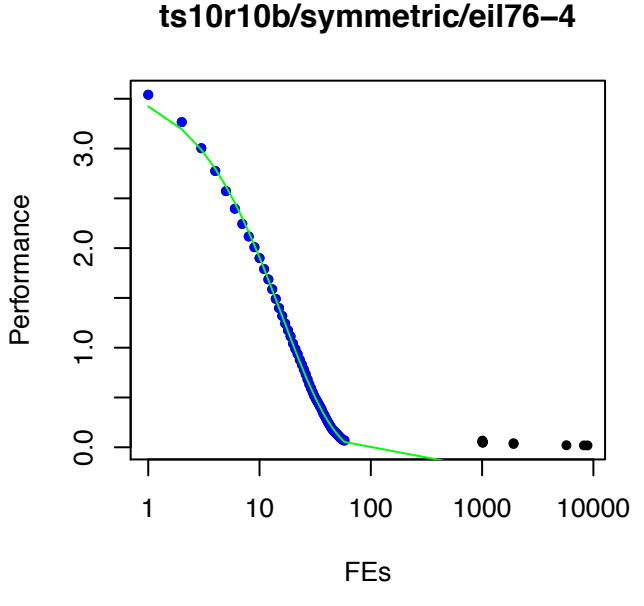
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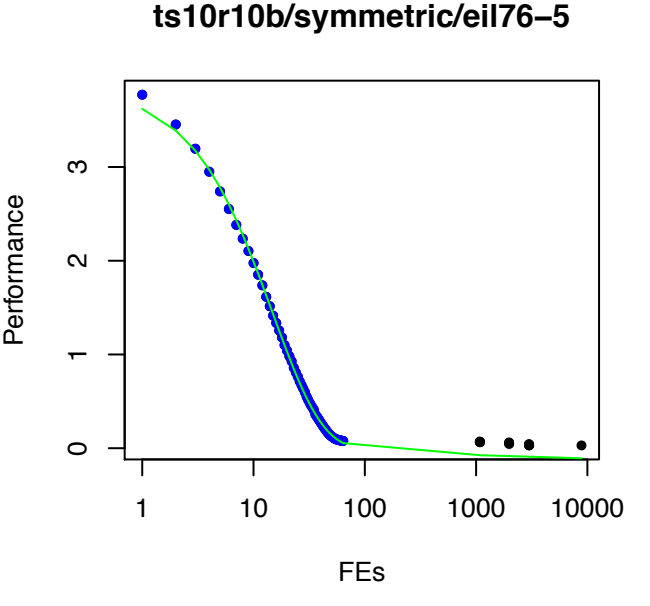
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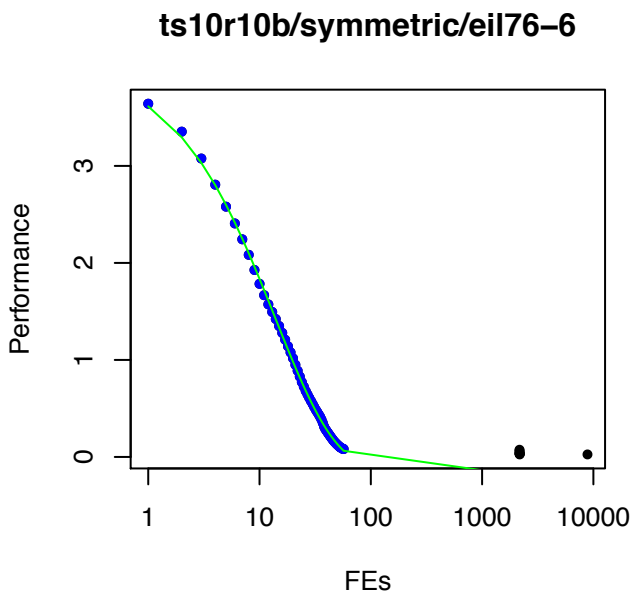
ts10r10b/symmetric/eil76−6
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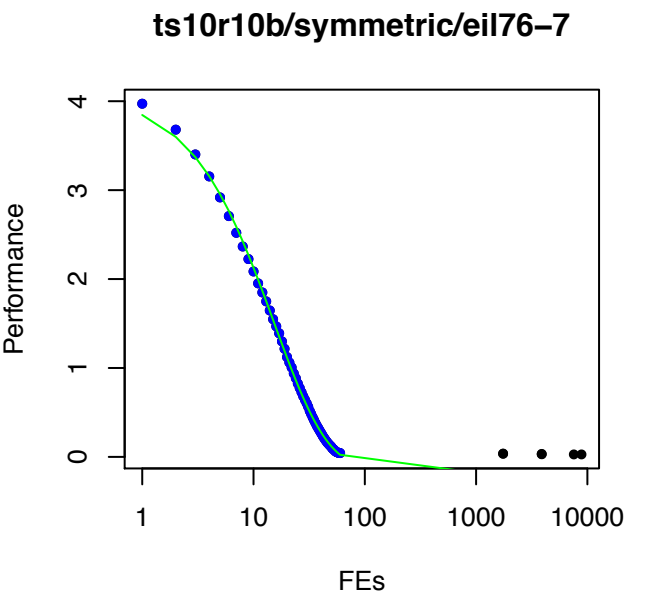
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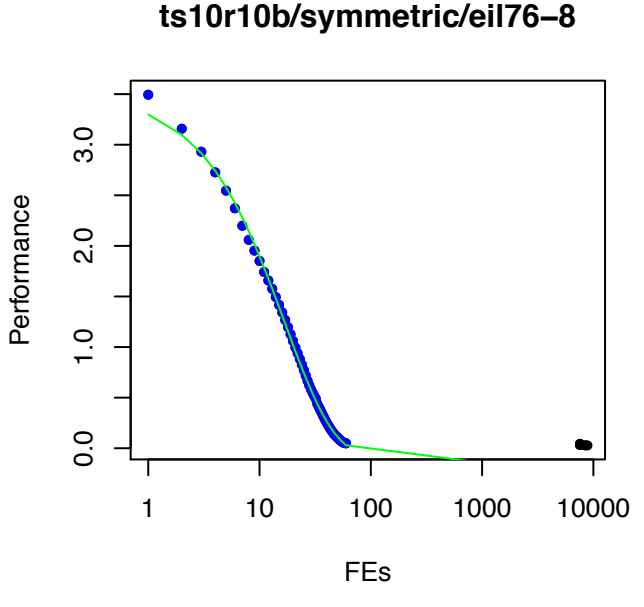
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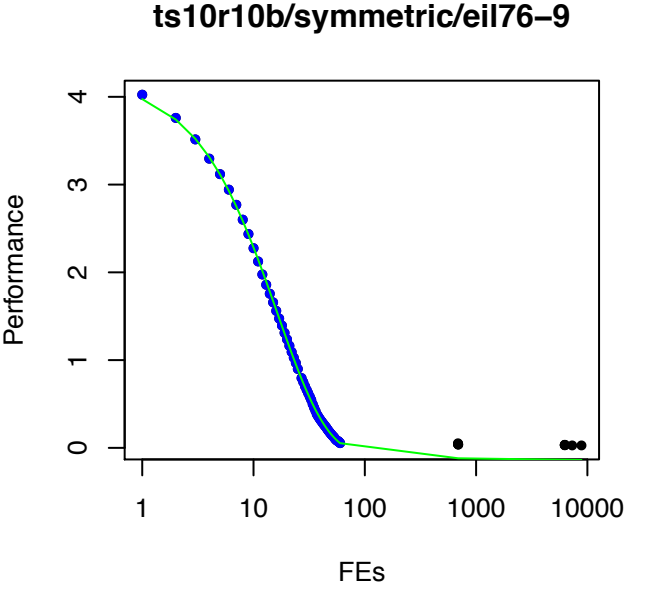
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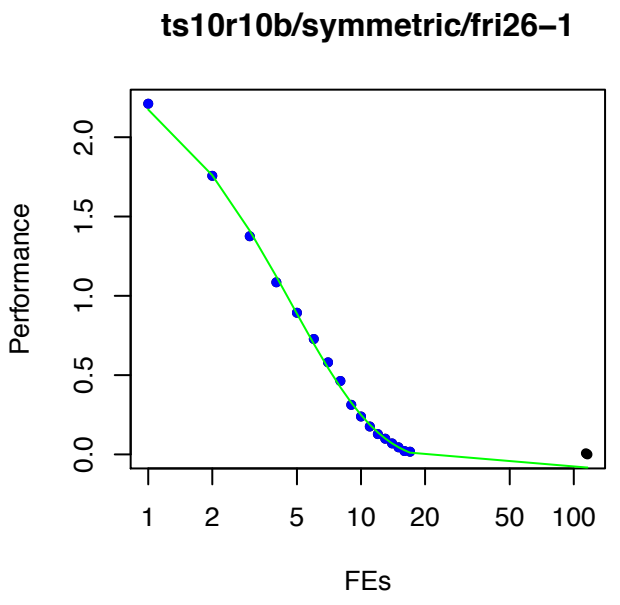
ts10r10b/symmetric/fri26−1
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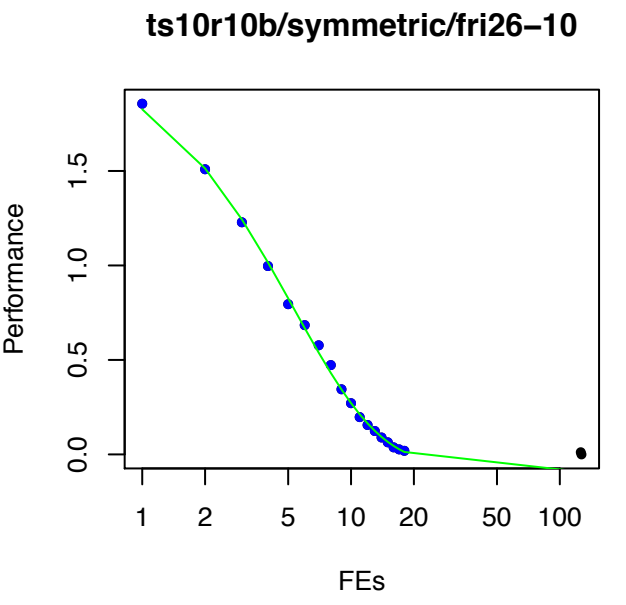
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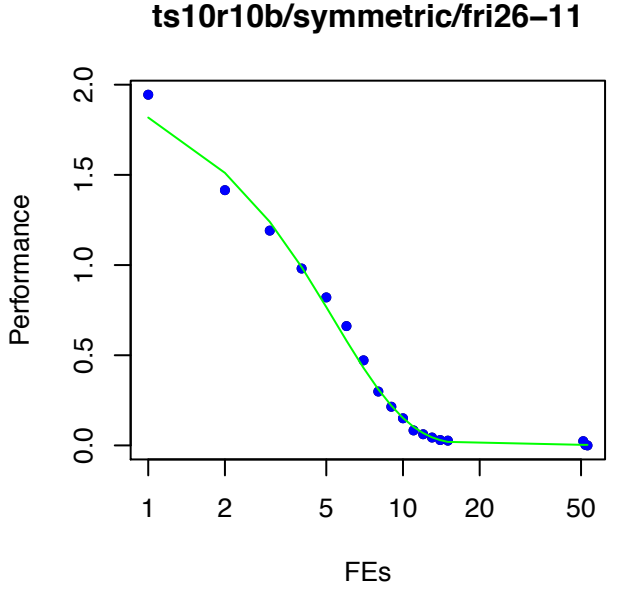
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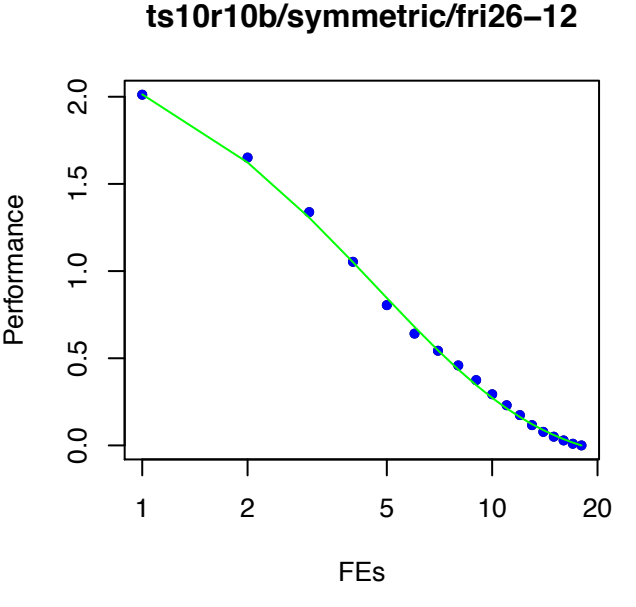
FEs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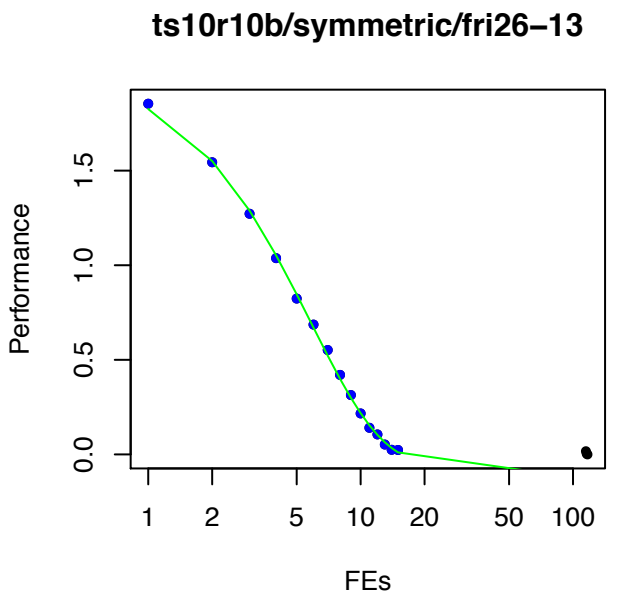
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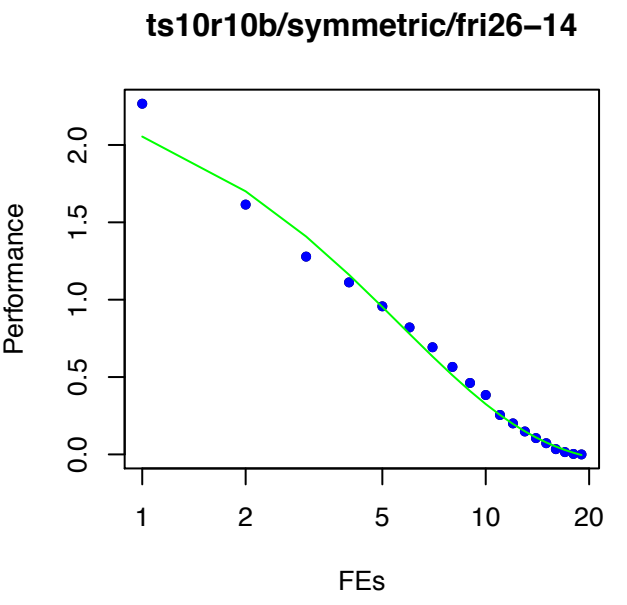
FEs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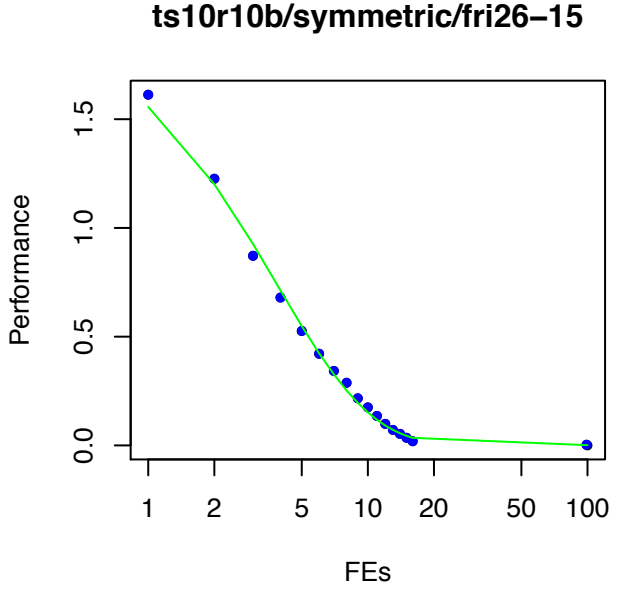
FEs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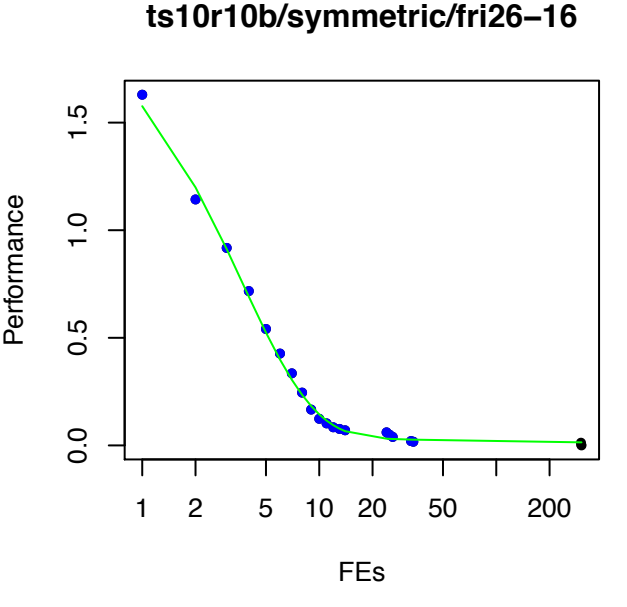
FEs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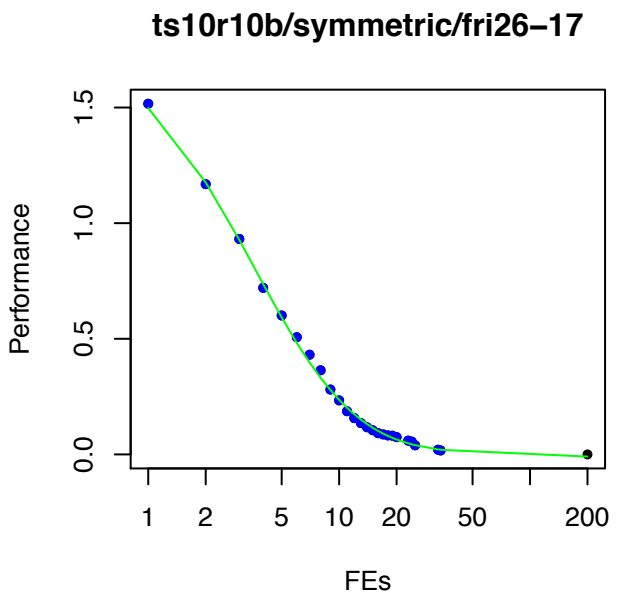
FEs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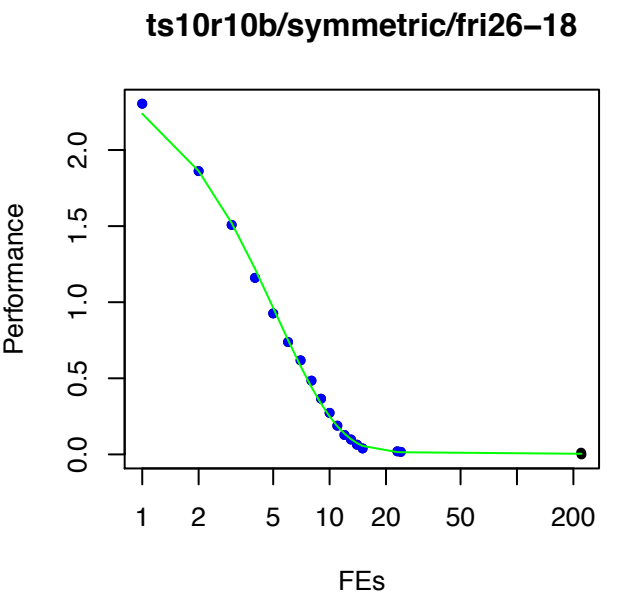
FEs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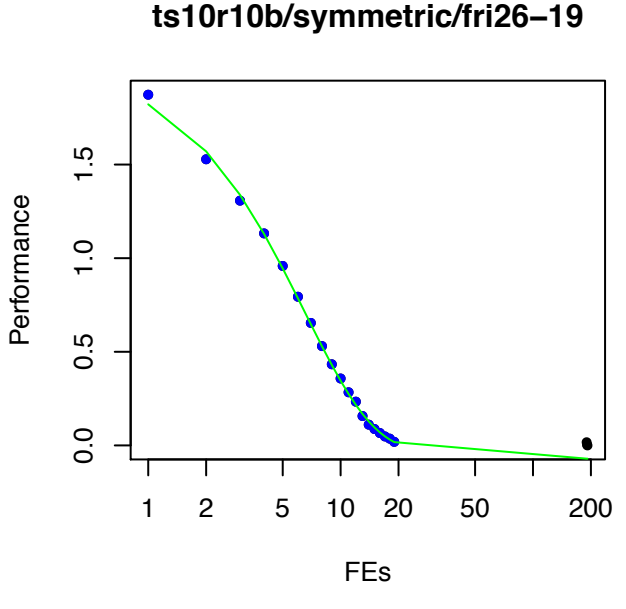
FEs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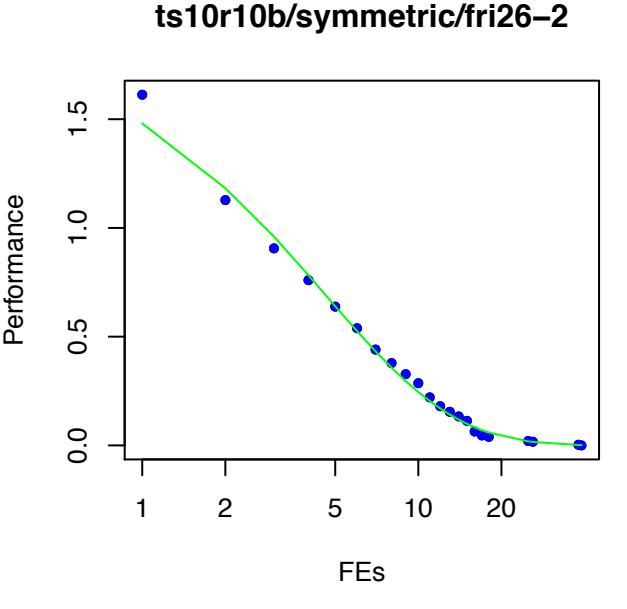
FEs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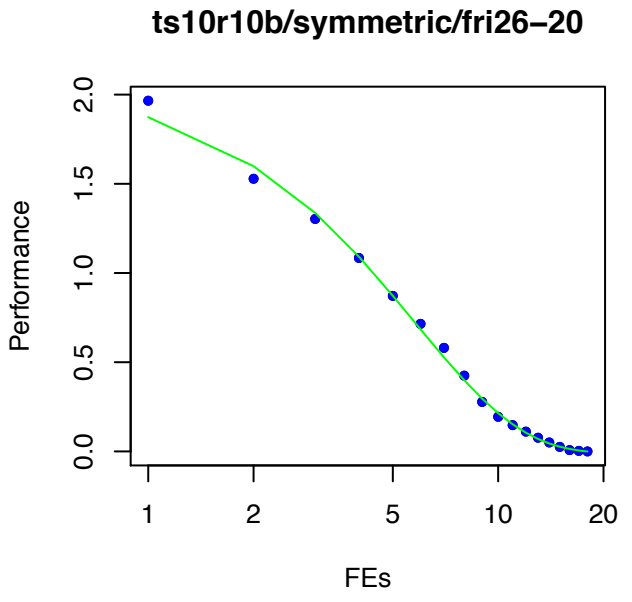
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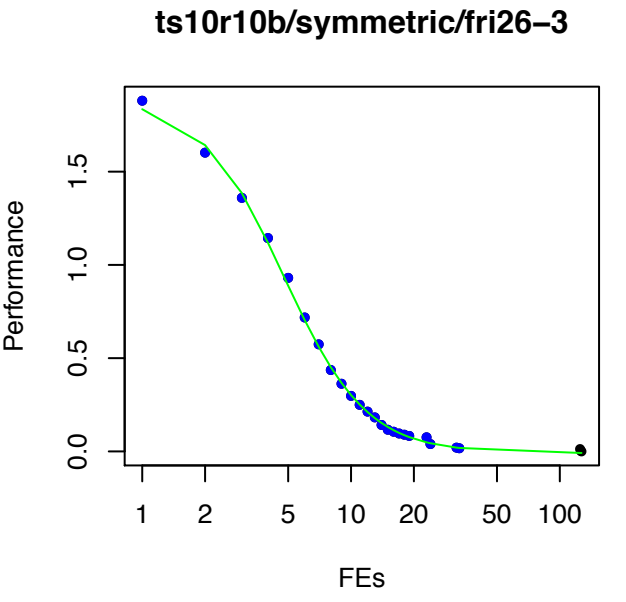
FEs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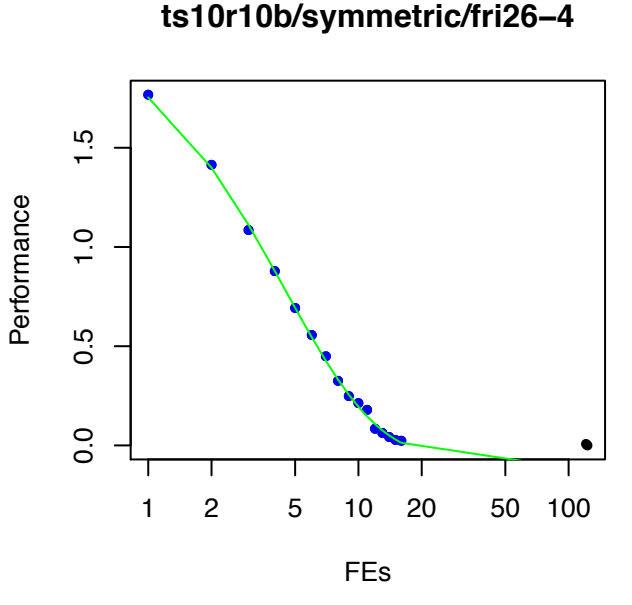
FEs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Performance
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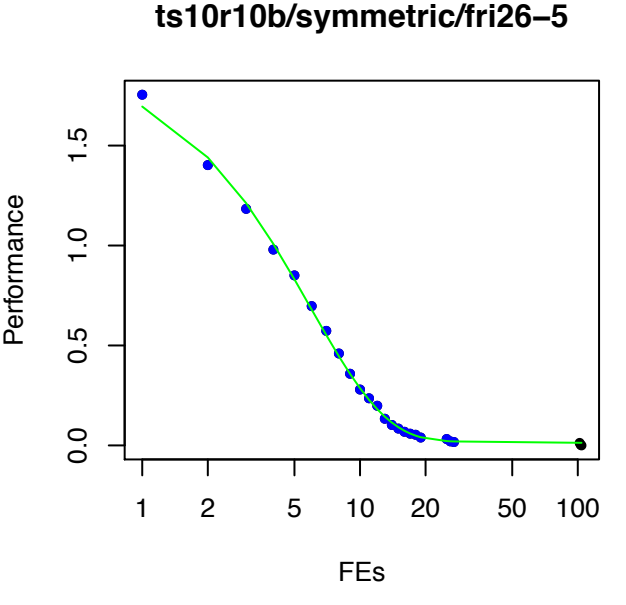
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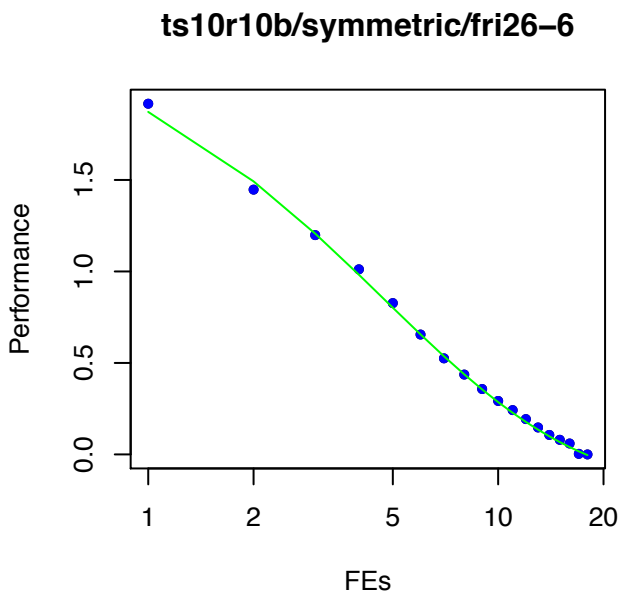
FEs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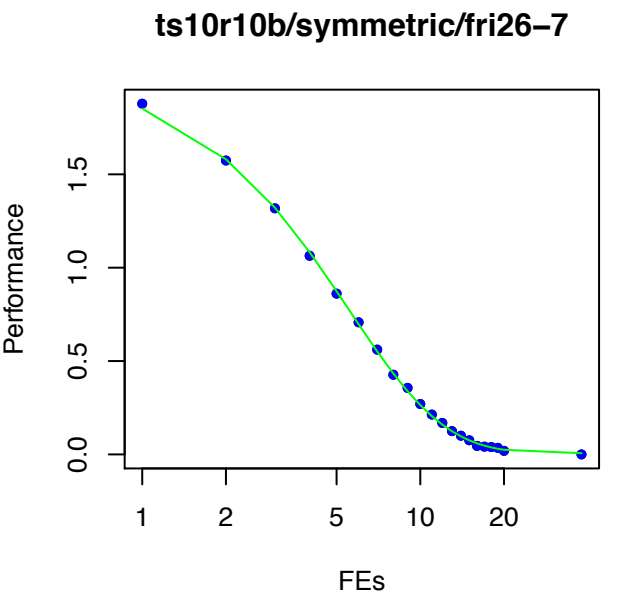
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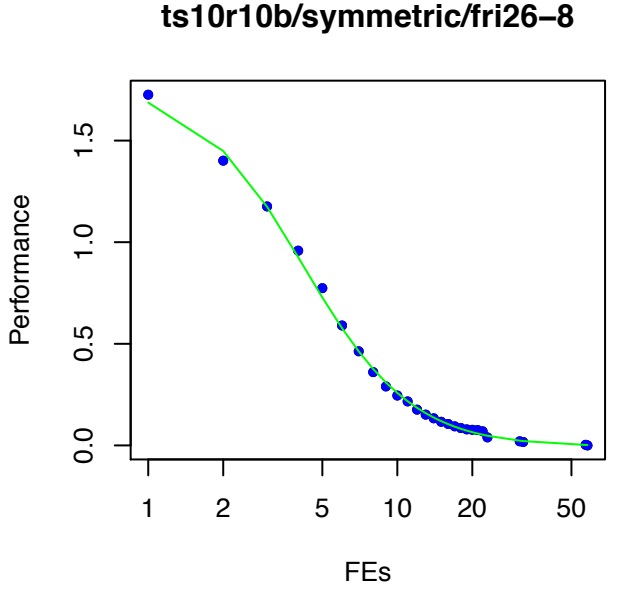
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Performance
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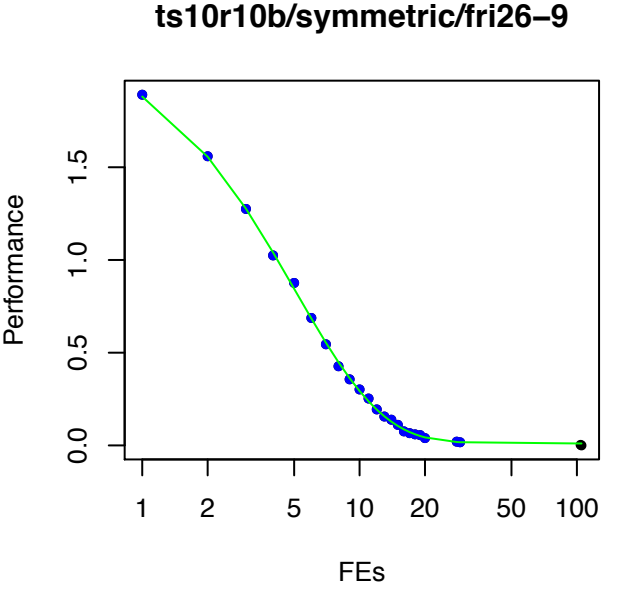
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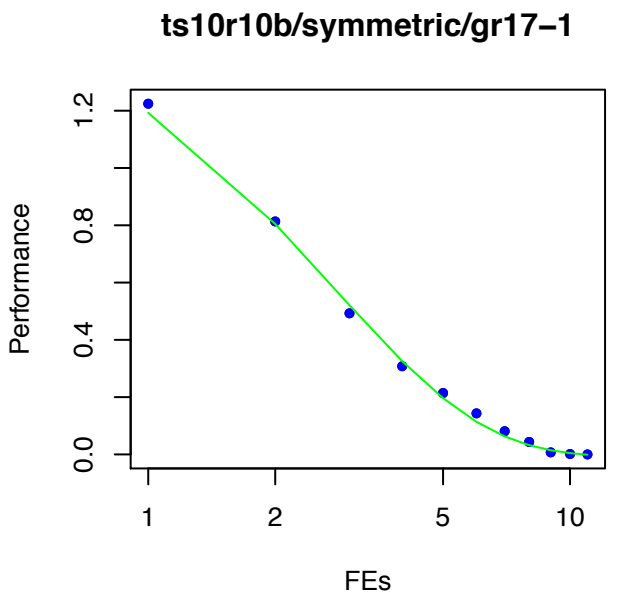
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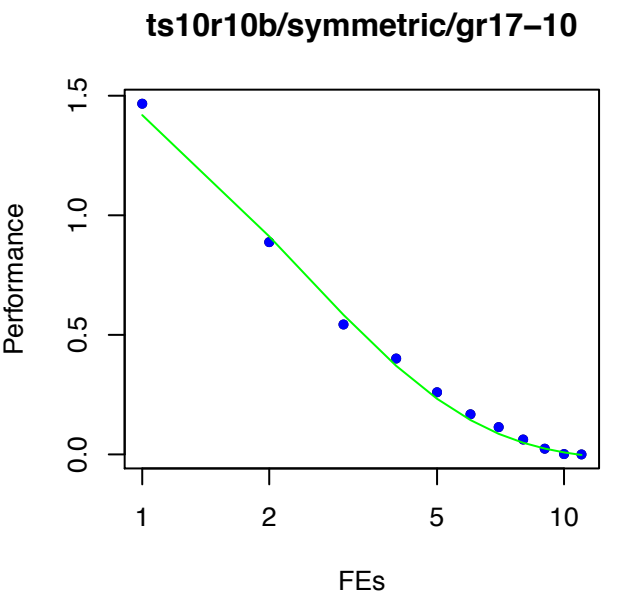
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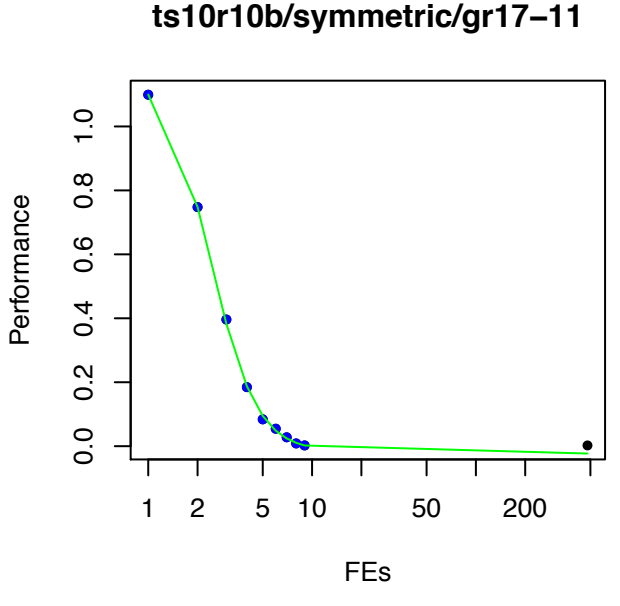
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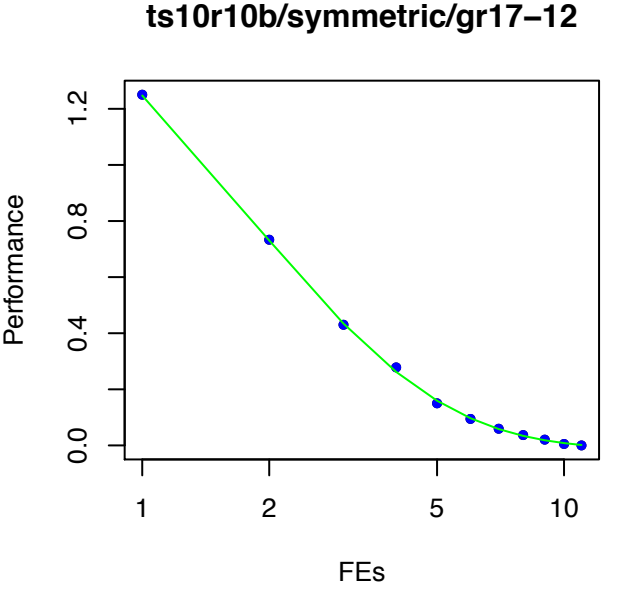
FEs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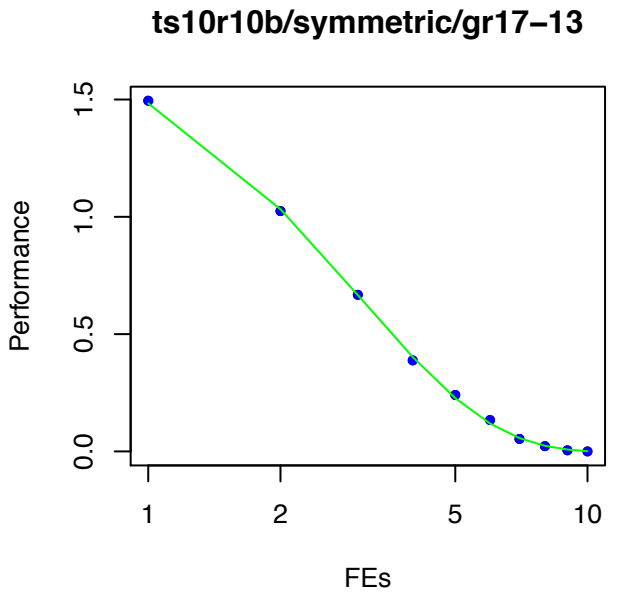
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Performance
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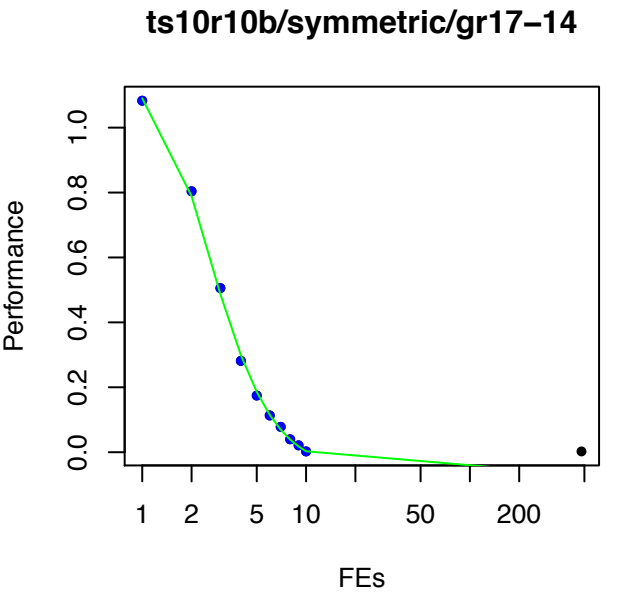
FEs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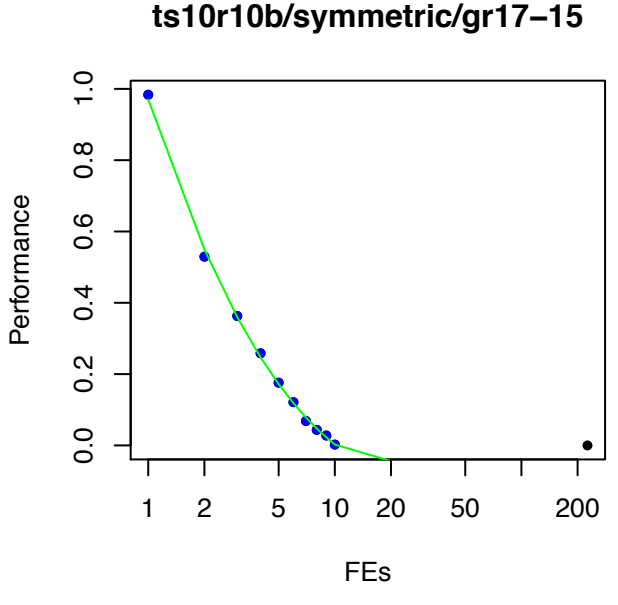
FEs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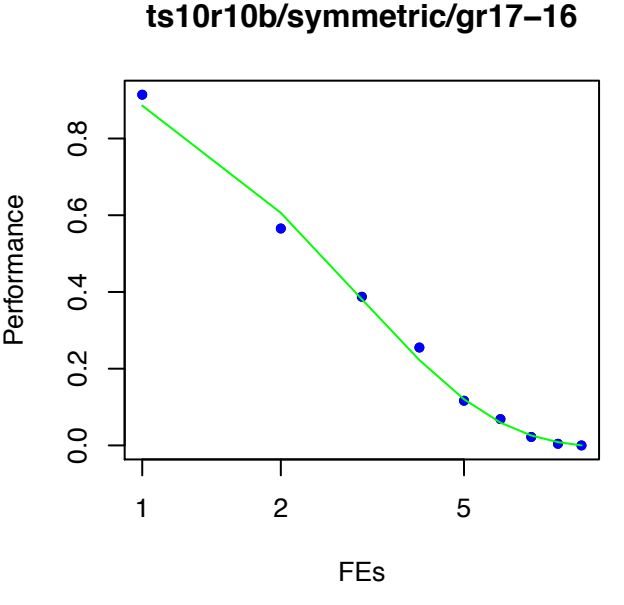
FEs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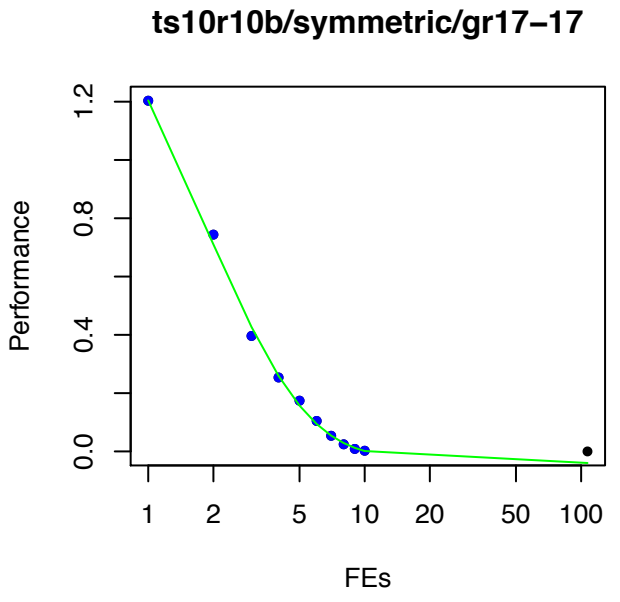
FEs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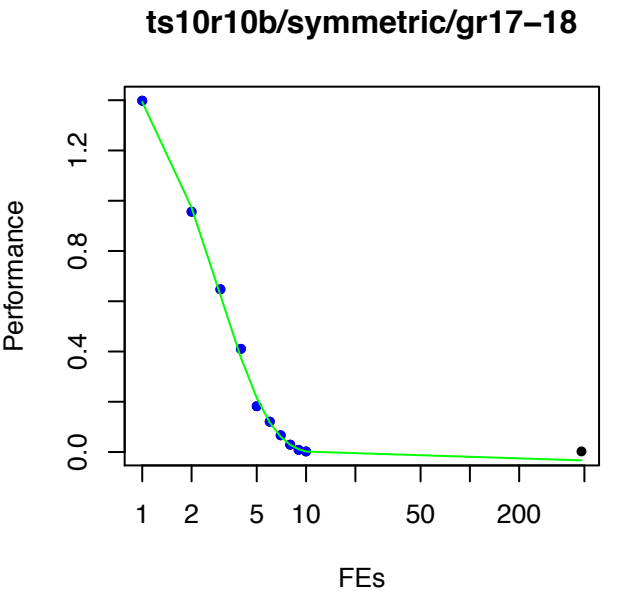
FEs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Performance
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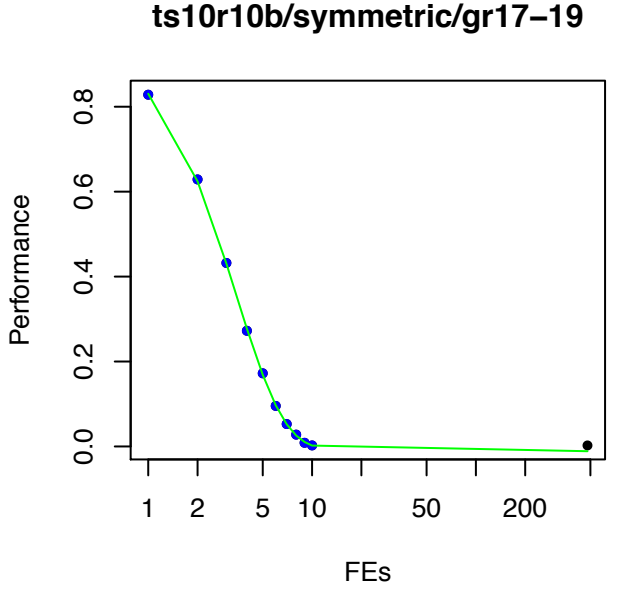
FEs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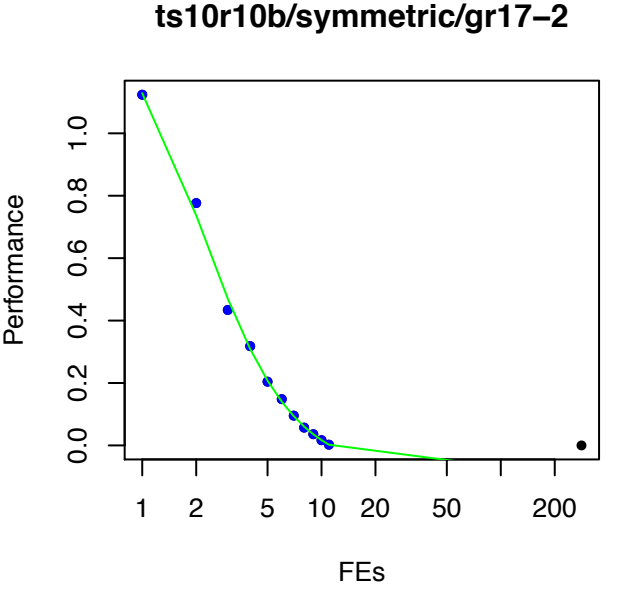
FEs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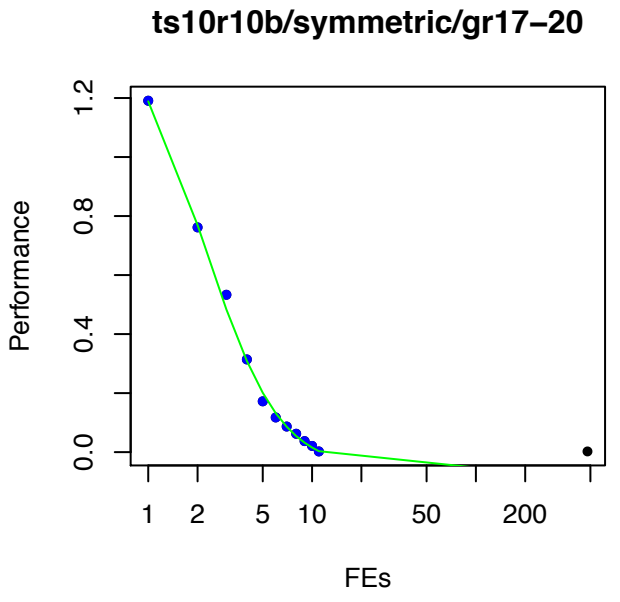
FEs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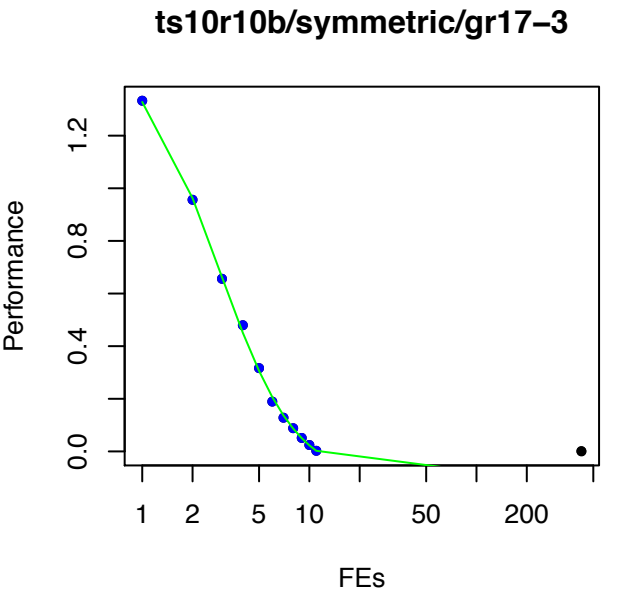
FEs


ts10r10b/symmetric/gr17−3
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0.8
1.2
1
2
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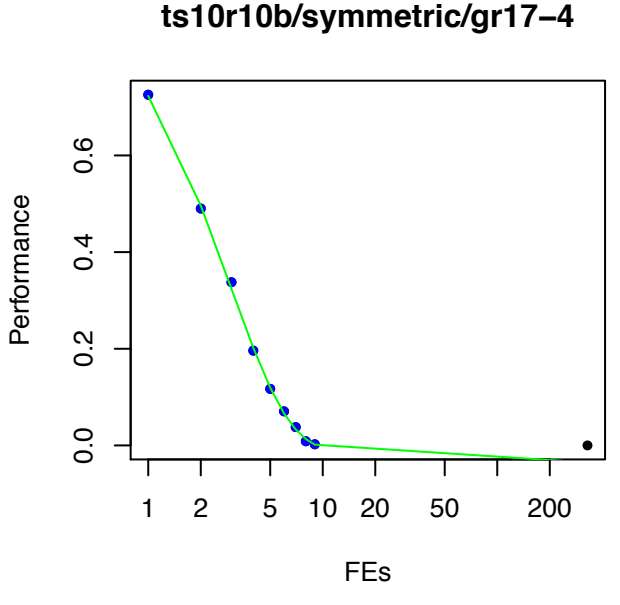
200
FEs


ts10r10b/symmetric/gr17−4
Performance
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0.6
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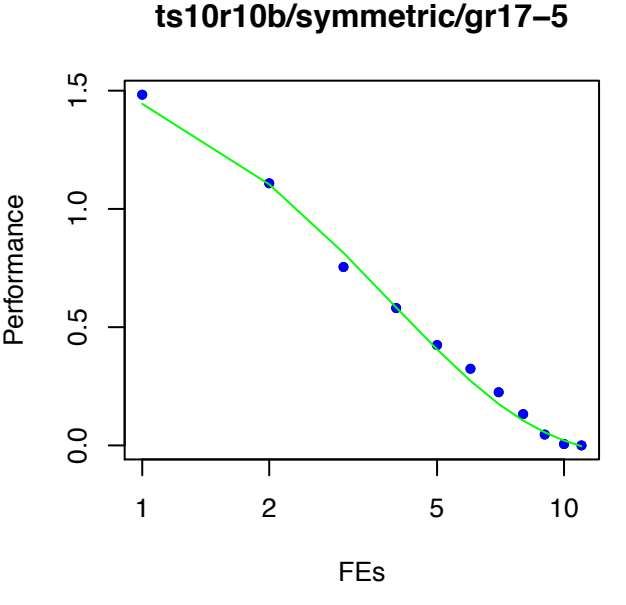
FEs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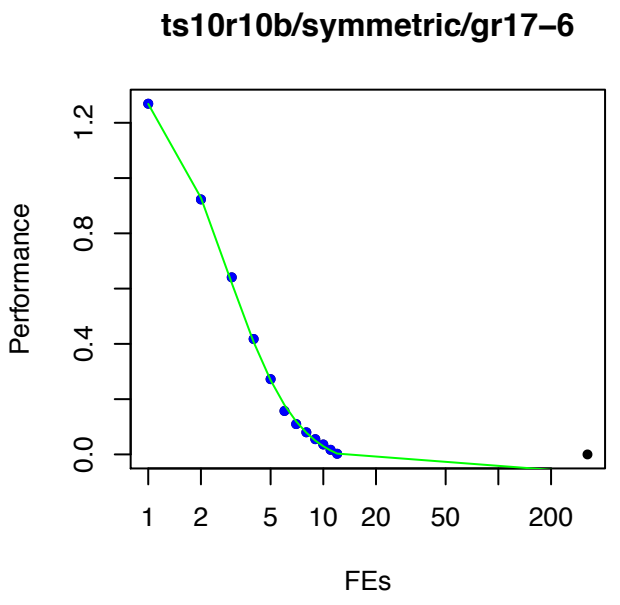
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Performance
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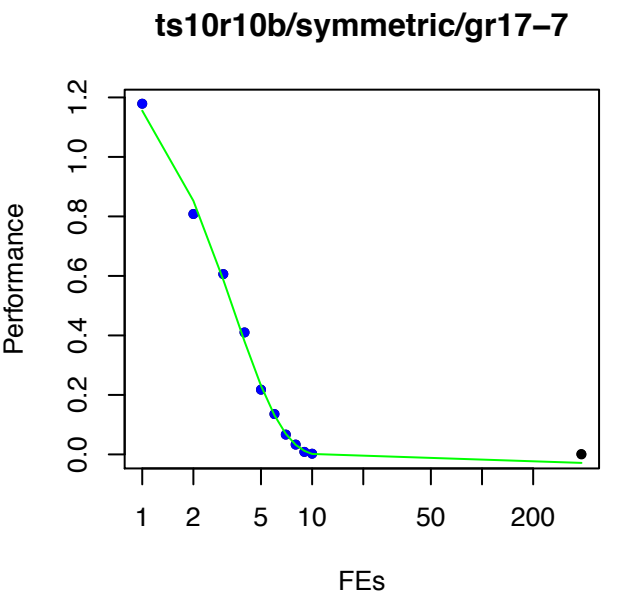
200
FEs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Performance
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1
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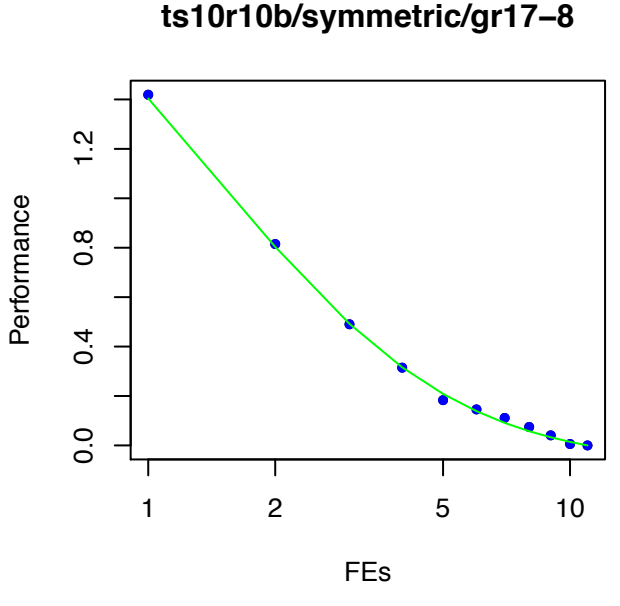
200
FEs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Performance
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2
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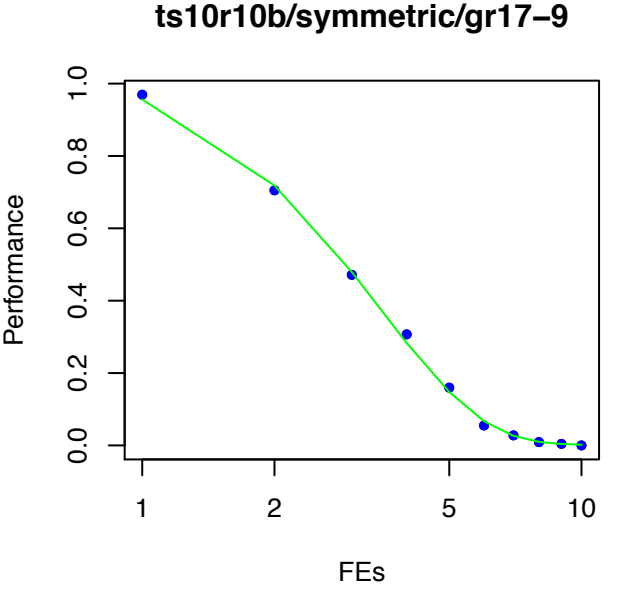
10
FEs


ts10r10b/symmetric/gr17−9
Performance
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0.8
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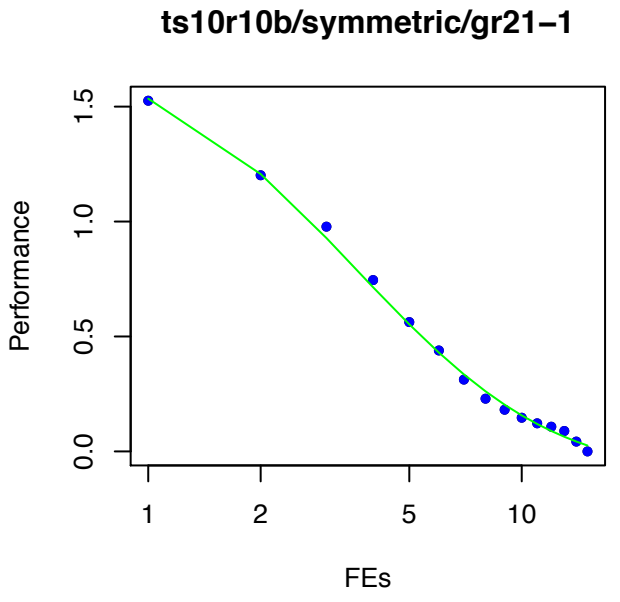
2
5
10
FEs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Performance
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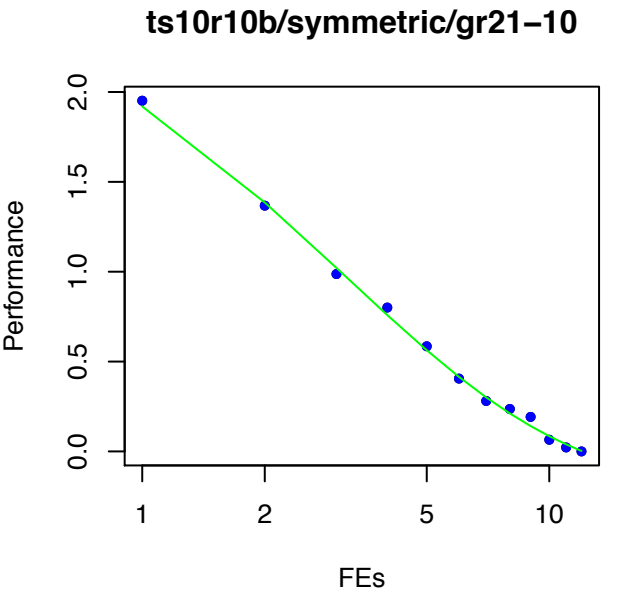
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Performance
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2
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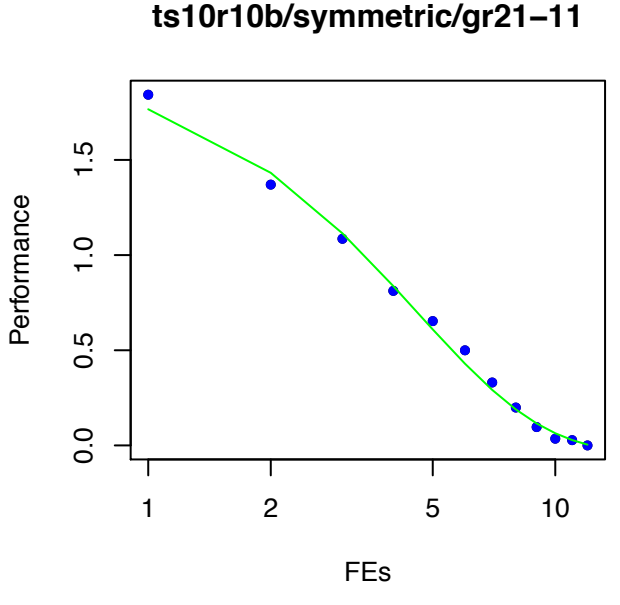
10
FEs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Performance
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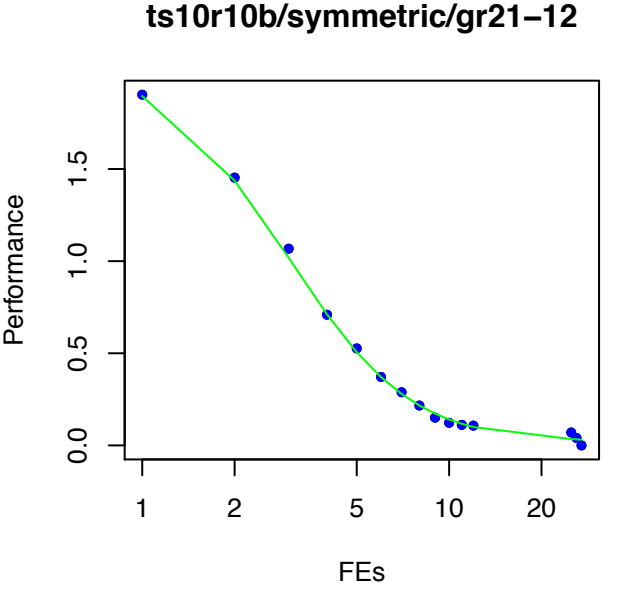
10
FEs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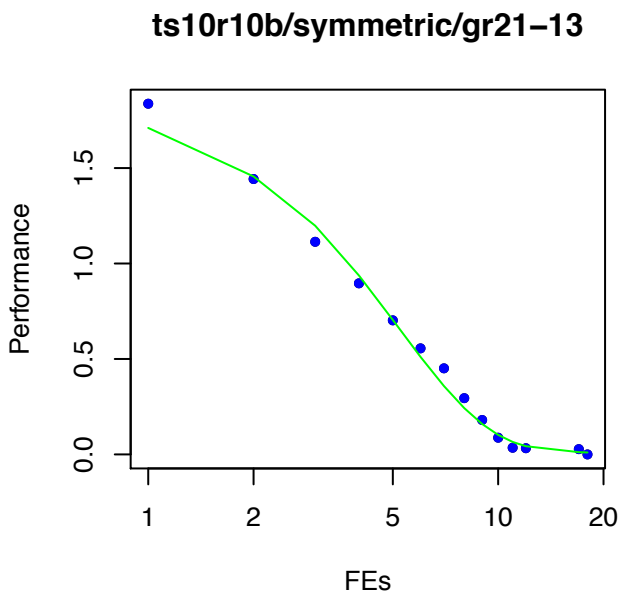
FEs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Performance
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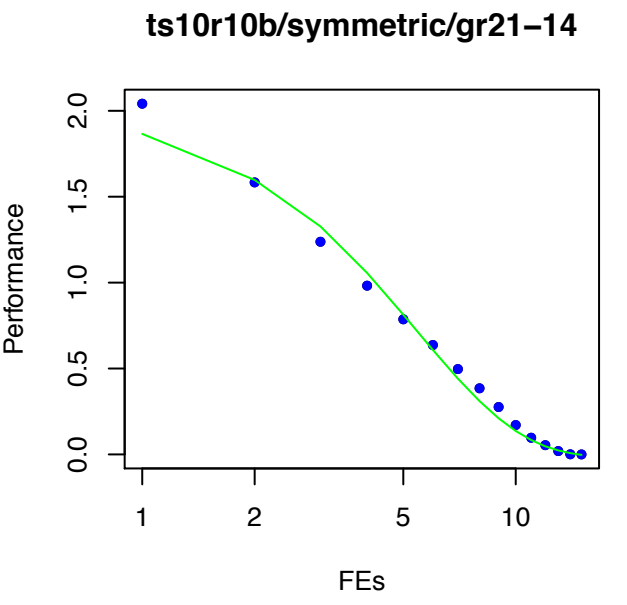
20
FEs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Performance
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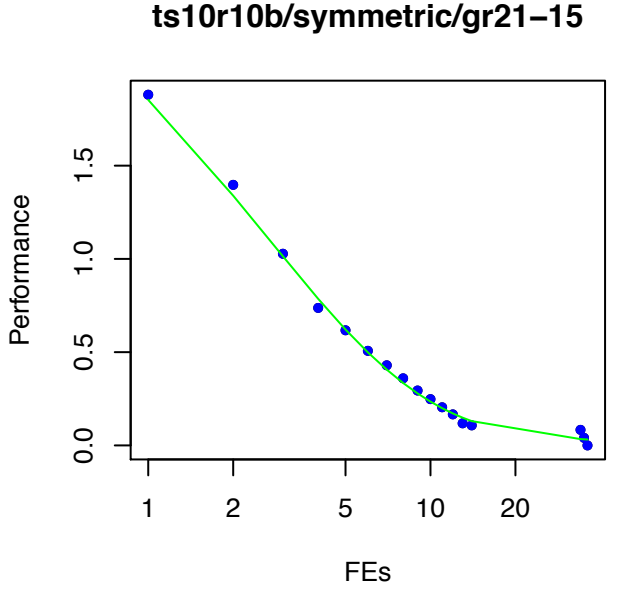
2
5
10
FEs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Performance
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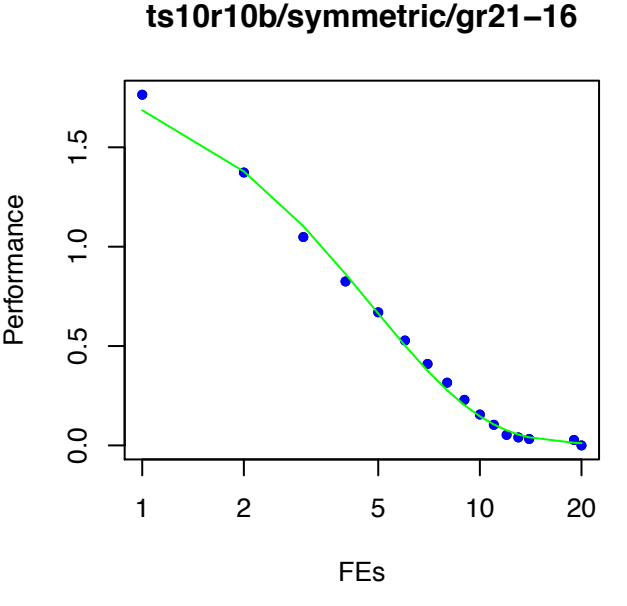
1.5
1
2
5
10
20
FEs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Performance
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1.5
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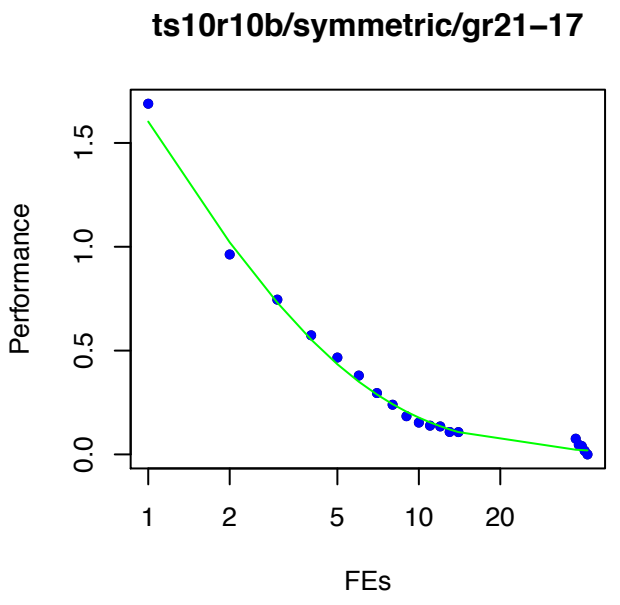
2
5
10
20
FEs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Performance
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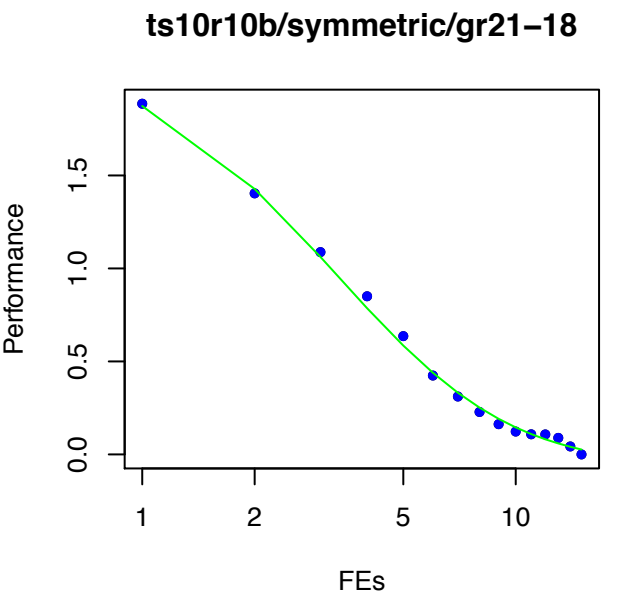
10
20
FEs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Performance
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1
2
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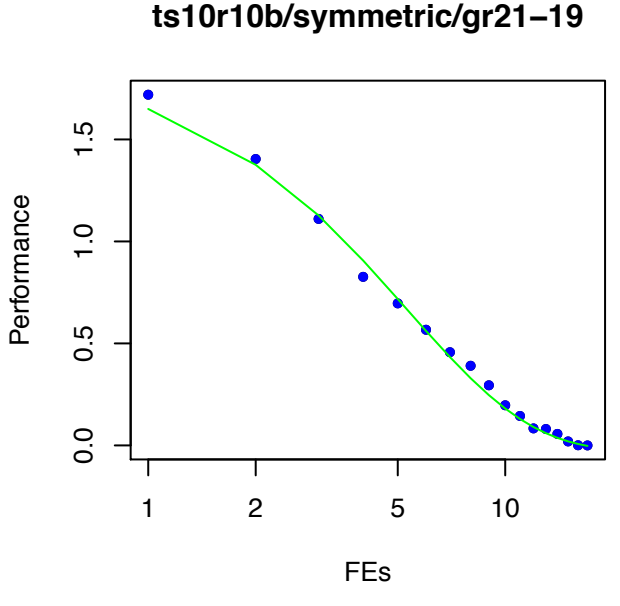
10
FEs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Performance
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1.0
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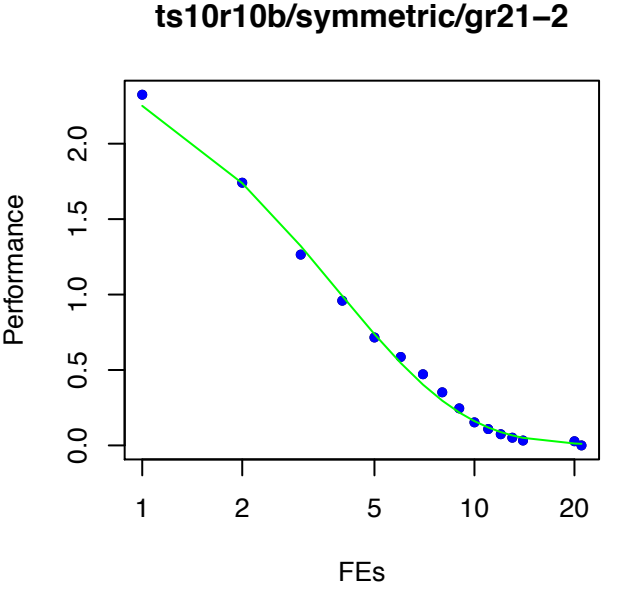
1
2
5
10
FEs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Performance
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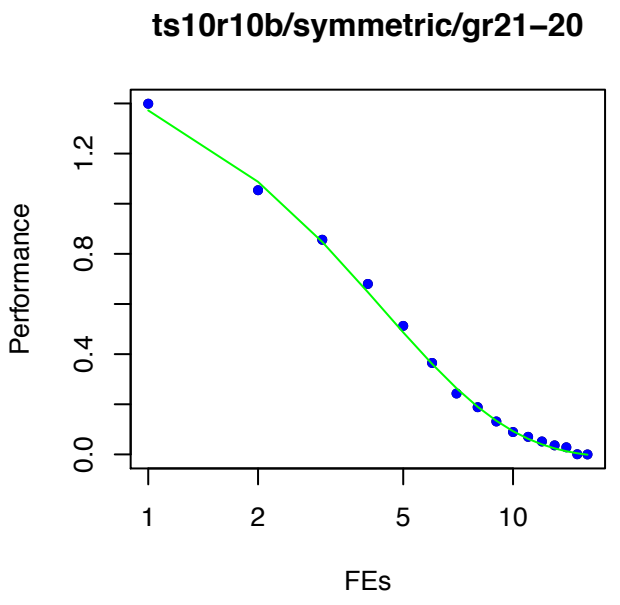
2.0
1
2
5
10
20
FEs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Performance
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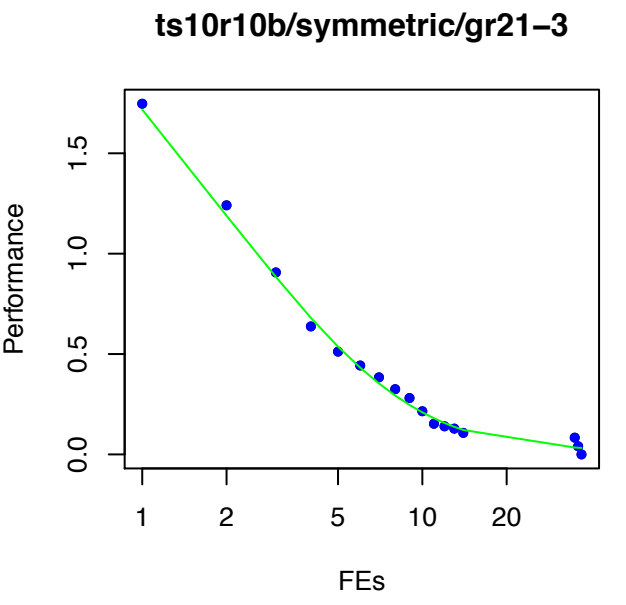
10
FEs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Performance
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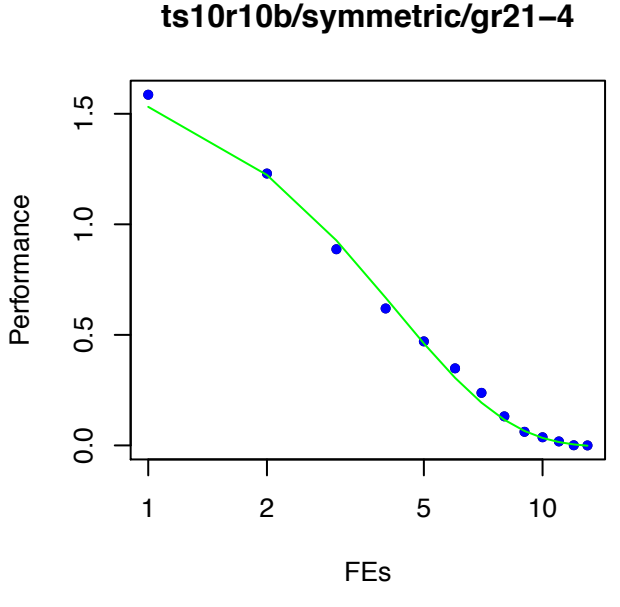
1.5
1
2
5
10
20
FEs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Performance
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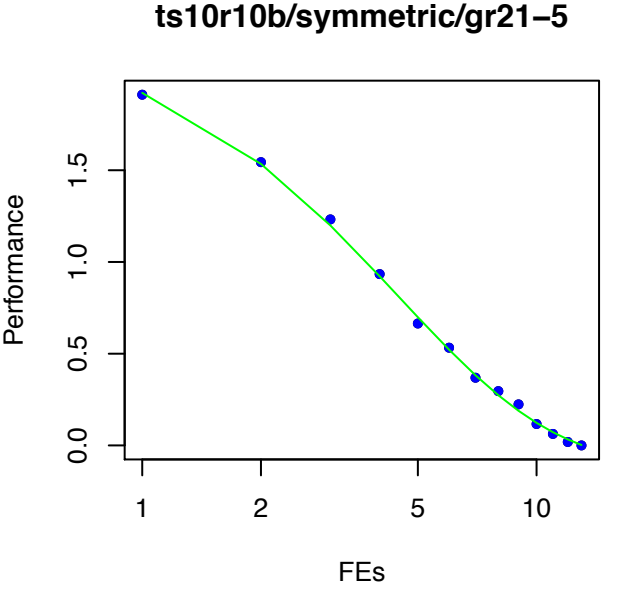
FEs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Performance
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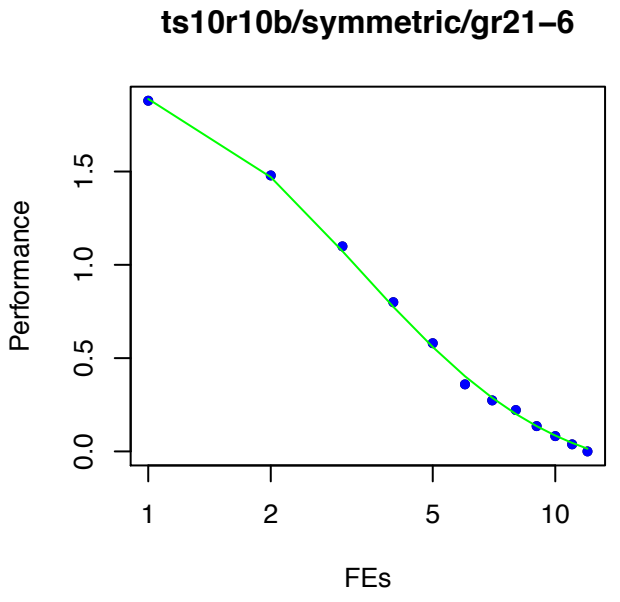
1.5
1
2
5
10
FEs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Performance
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2
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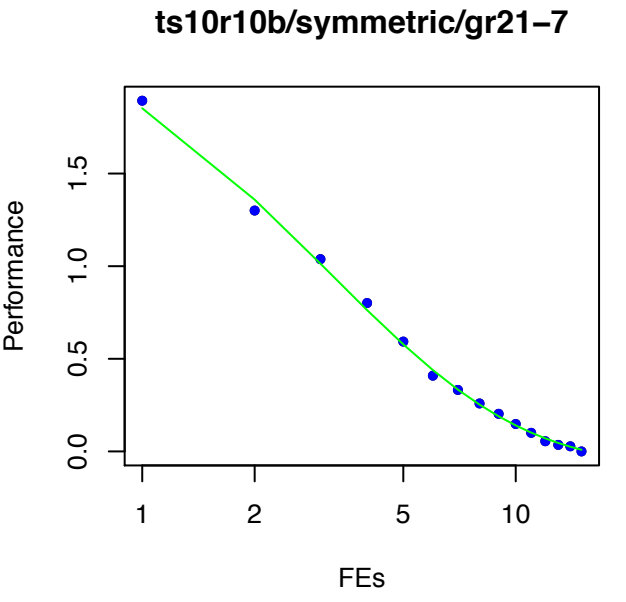
10
FEs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Performance
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10
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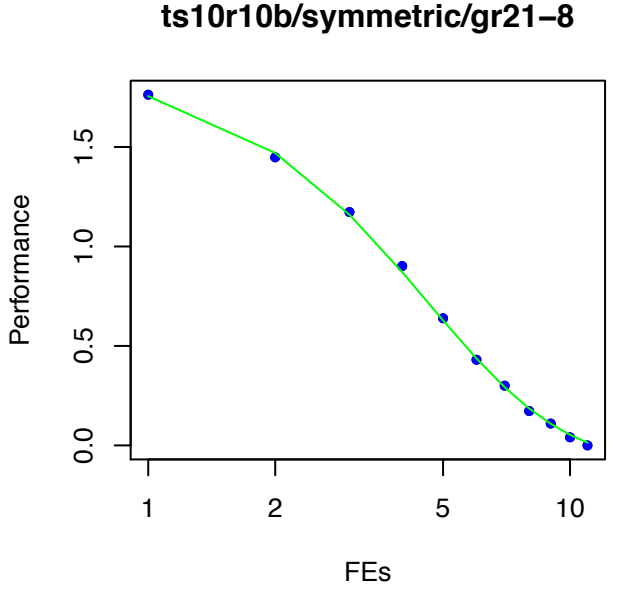
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Performance
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2
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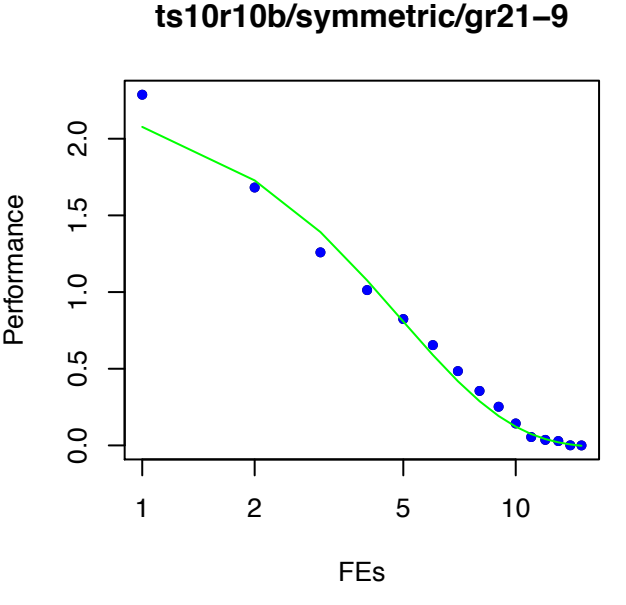
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Performance
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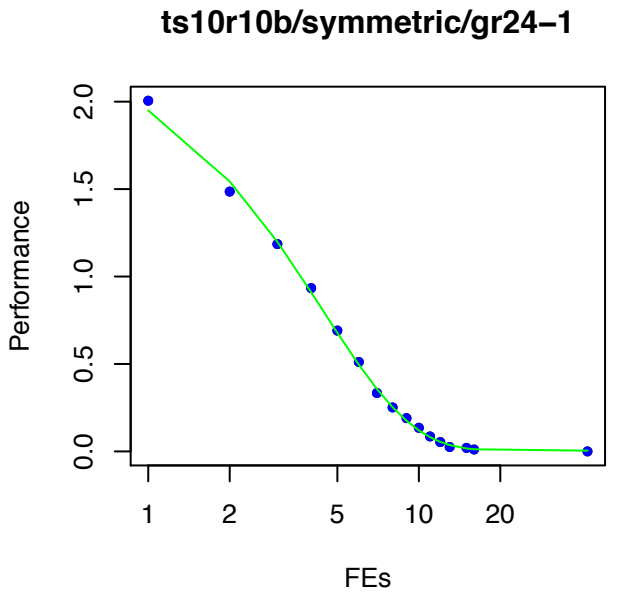
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Performance
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2
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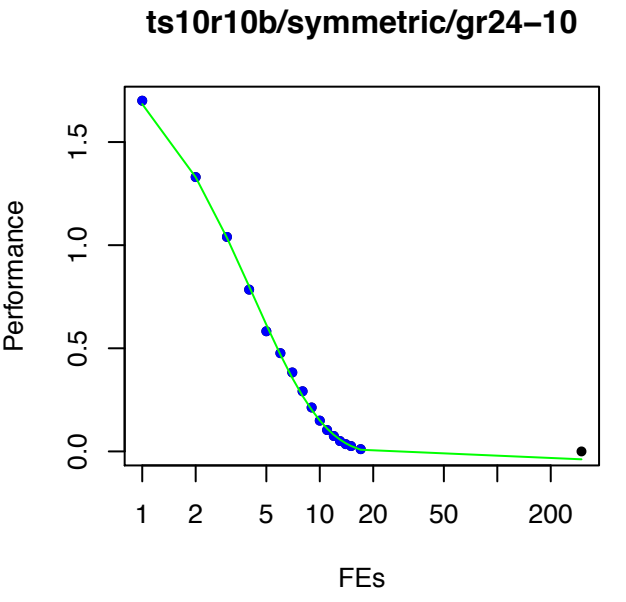
10
20
FEs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Performance
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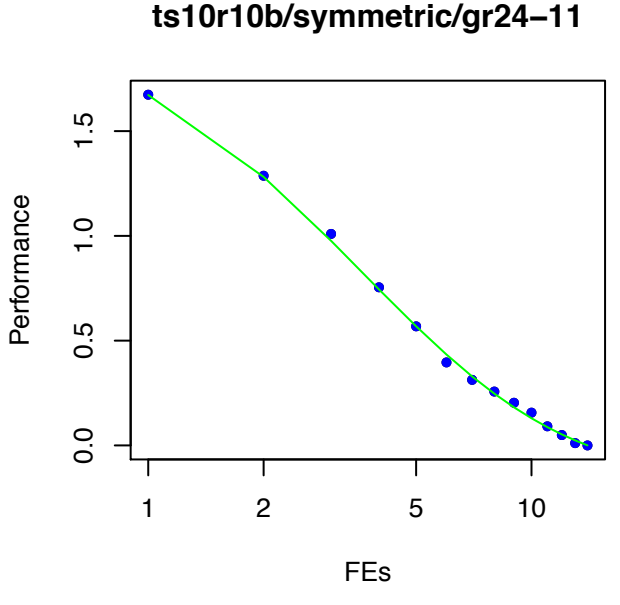
10
20
50
200
FEs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Performance
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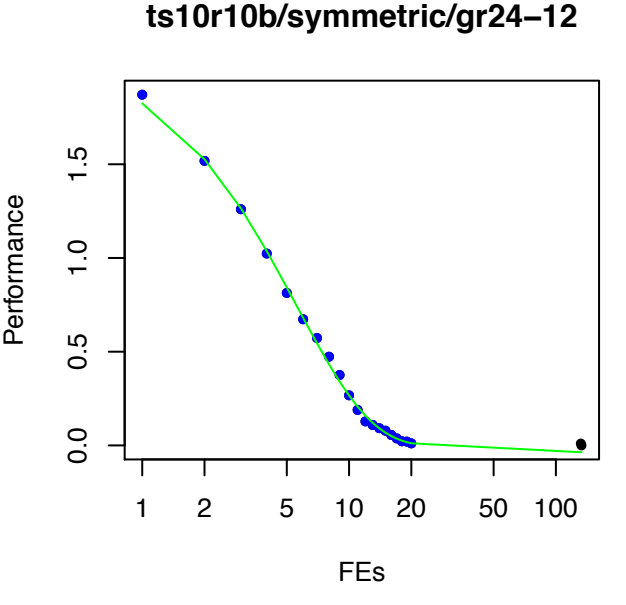
2
5
10
FEs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Performance
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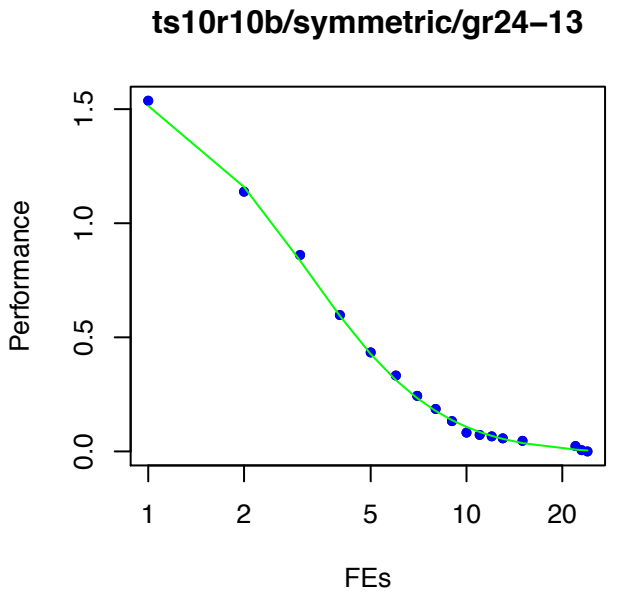
50
100
FEs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Performance
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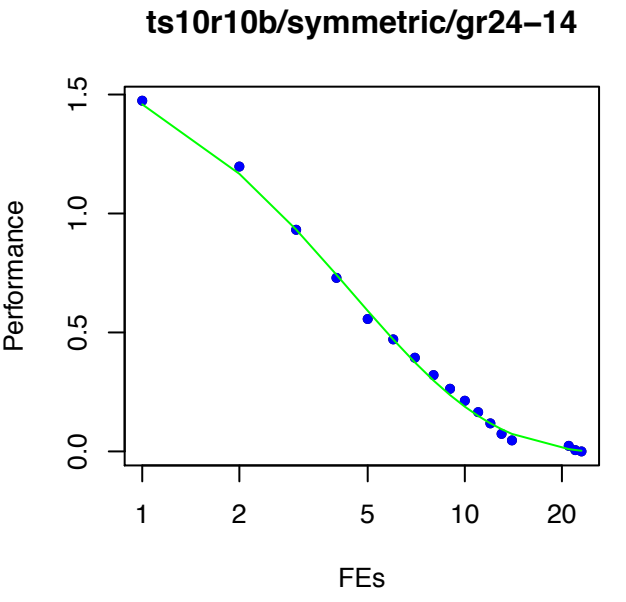
2
5
10
20
FEs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Performance
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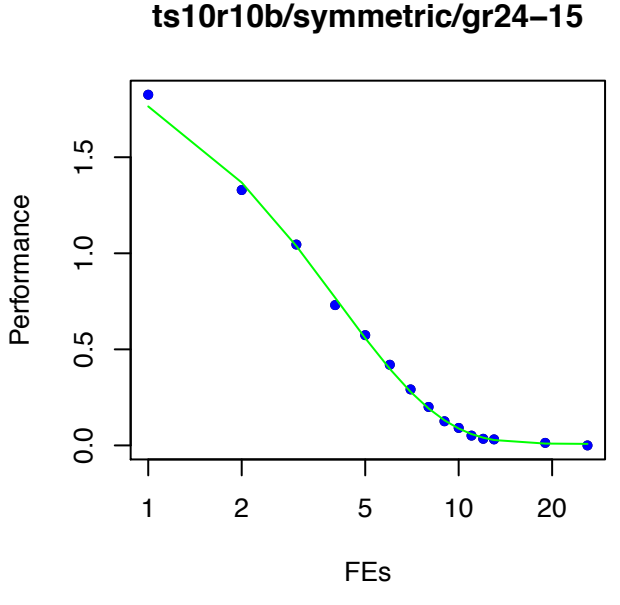
10
20
FEs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Performance
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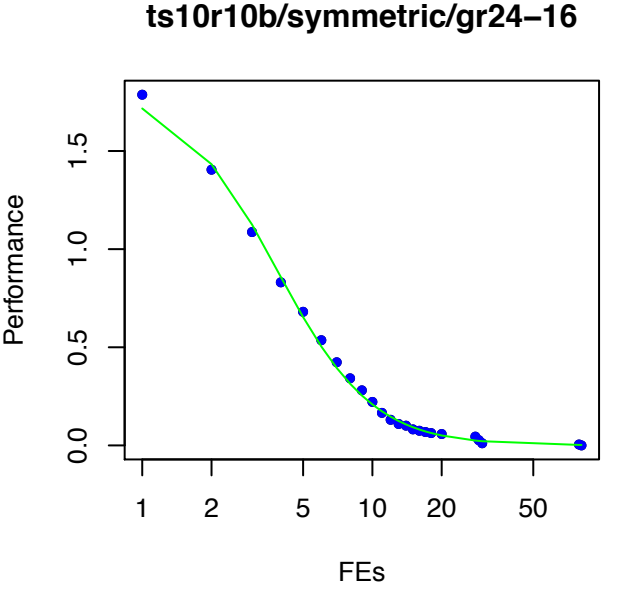
10
20
FEs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Performance
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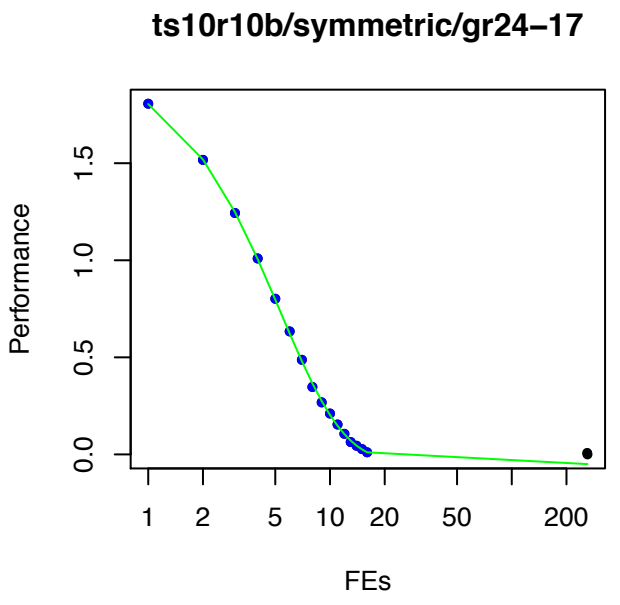
10
20
50
FEs


ts10r10b/symmetric/gr24−17
Performance
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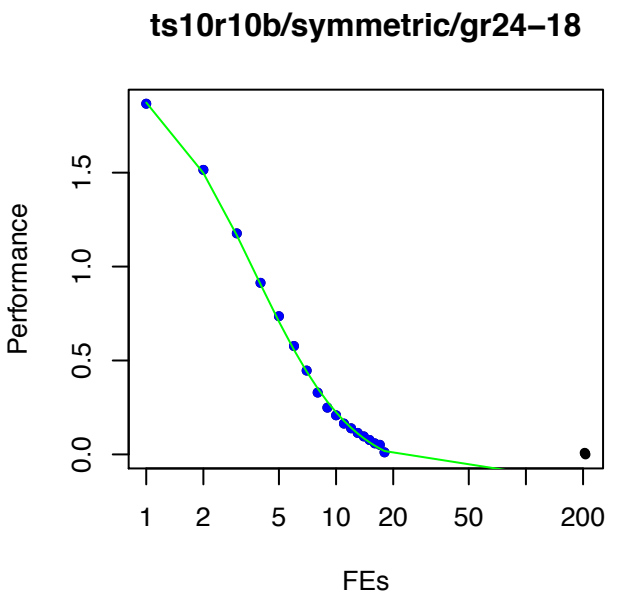
2
5
10
20
50
200
FEs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Performance
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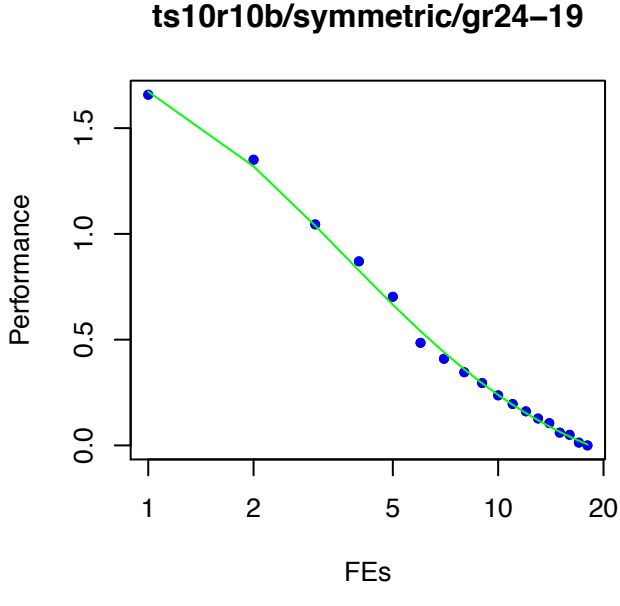
1
2
5
10
20
50
200
FEs


ts10r10b/symmetric/gr24−19
Performance
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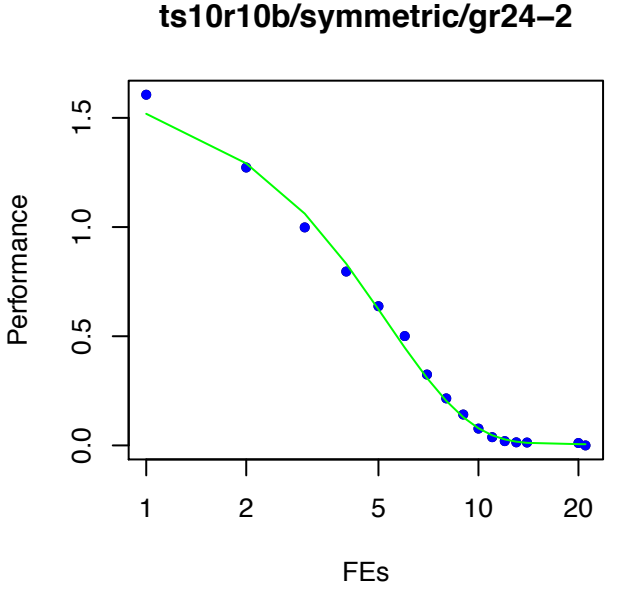
1.5
1
2
5
10
20
FEs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Performance
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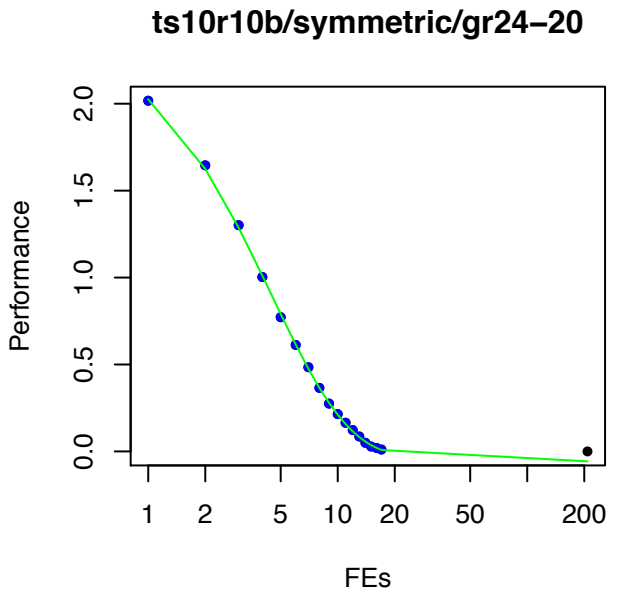
1.5
1
2
5
10
20
FEs


ts10r10b/symmetric/gr24−20
Performance
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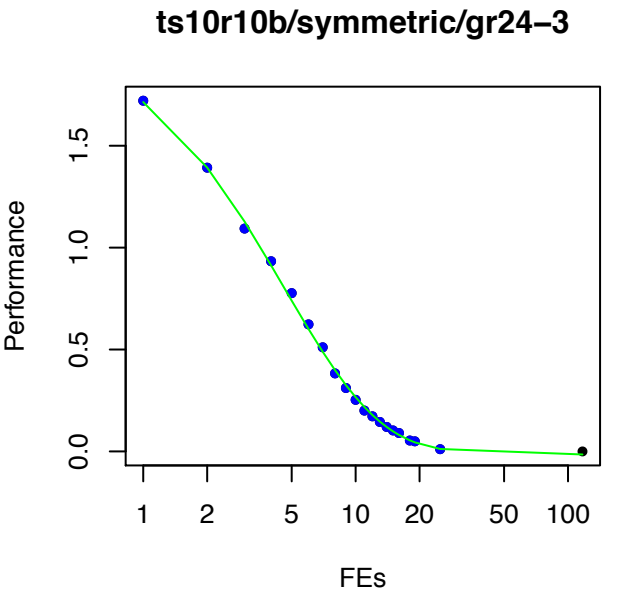
2
5
10
20
50
200
FEs


ts10r10b/symmetric/gr24−3
Performance
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2
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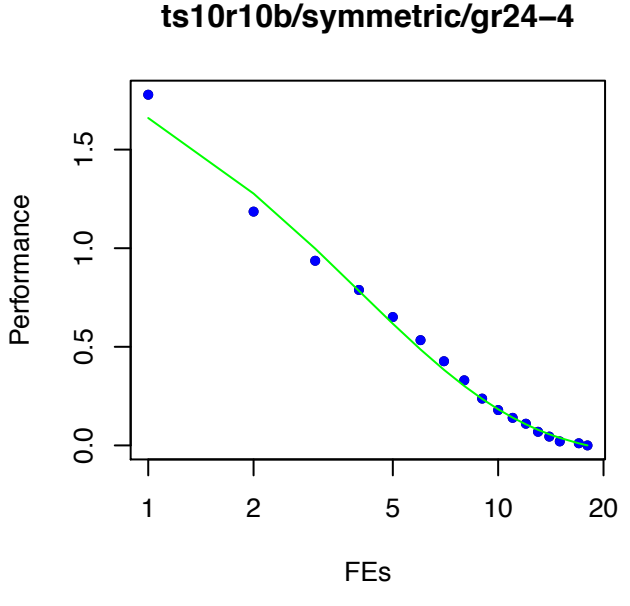
10
20
50
100
FEs


ts10r10b/symmetric/gr24−4
Performance
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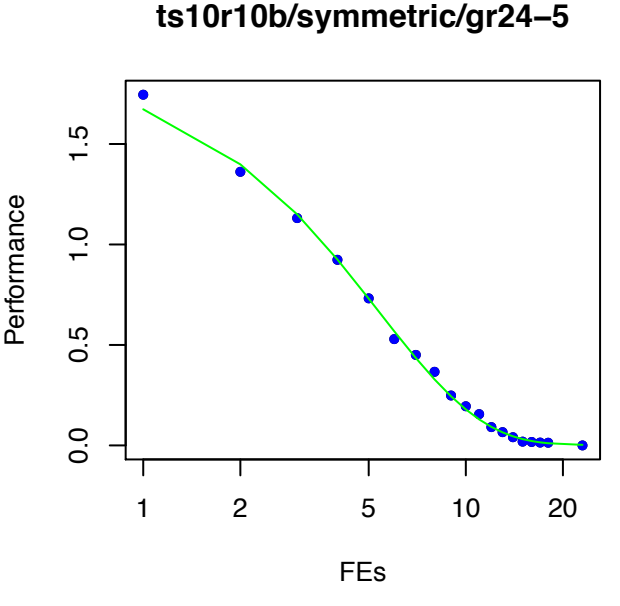
1.0
1.5
1
2
5
10
20
FEs


ts10r10b/symmetric/gr24−5
Performance
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1.5
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20
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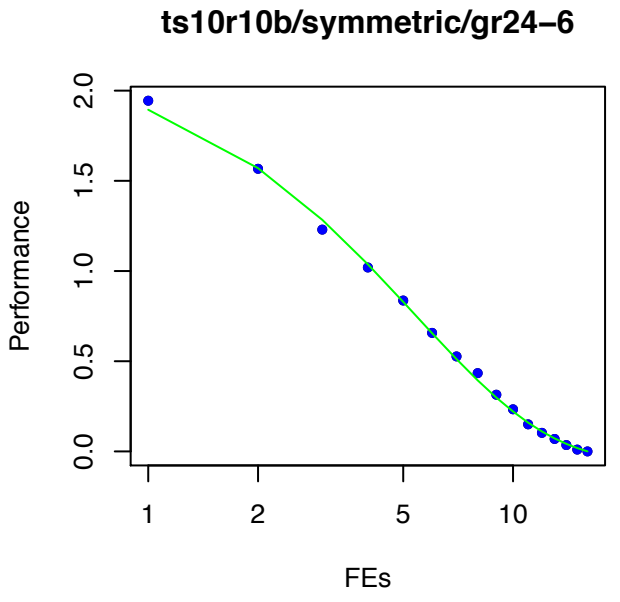
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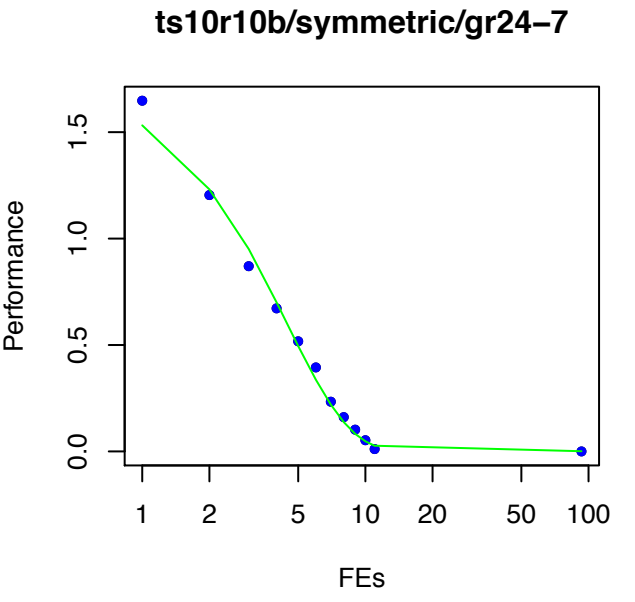
2
5
10
FEs


ts10r10b/symmetric/gr24−7
Performance
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1
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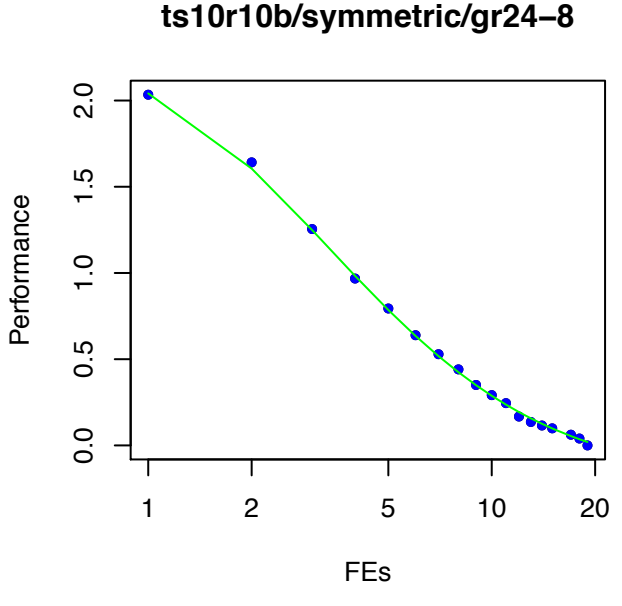
10
20
50
100
FEs


ts10r10b/symmetric/gr24−8
Performance
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1.0
1.5
2.0
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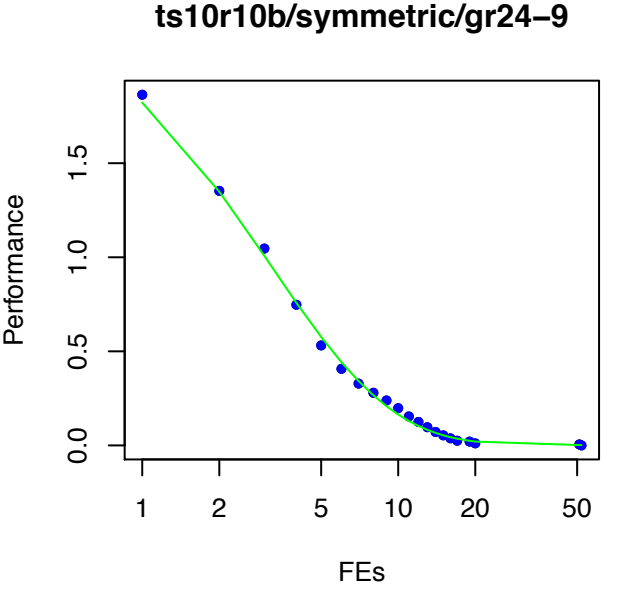
2
5
10
20
FEs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Performance
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1
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10
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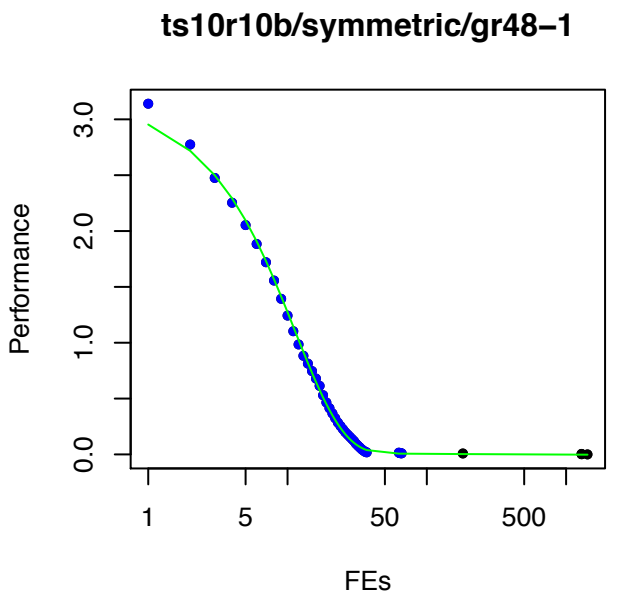
50
FEs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Performance
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5
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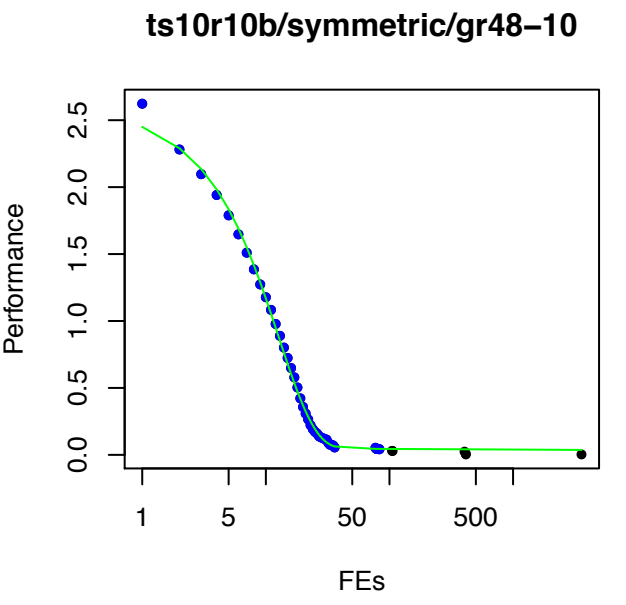
500
FEs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Performance
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5
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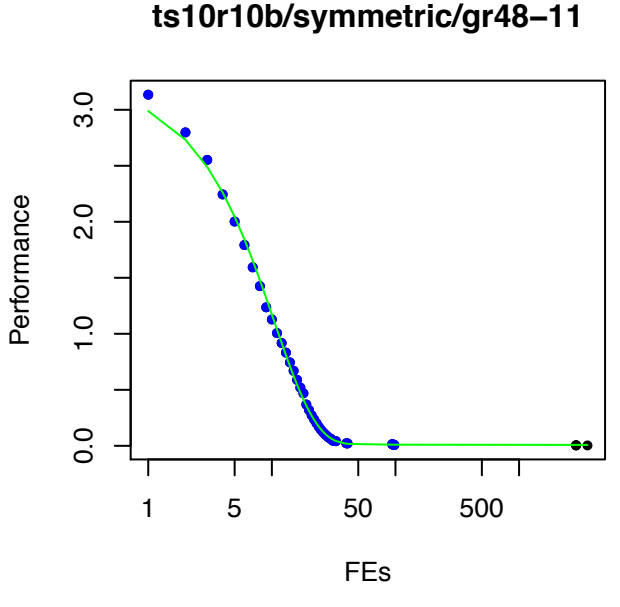
FEs


ts10r10b/symmetric/gr48−11
Performance
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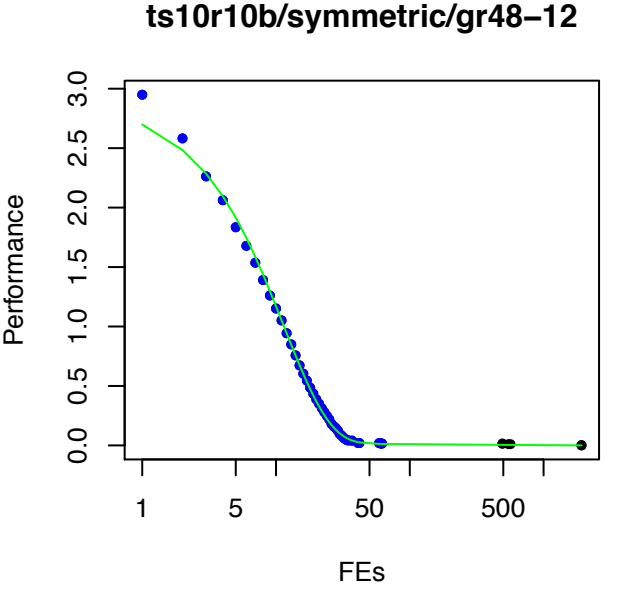
500
FEs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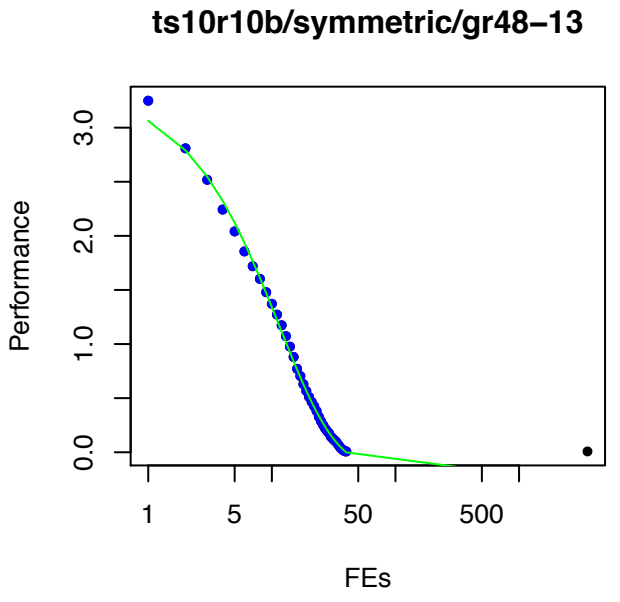
500
FEs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Performance
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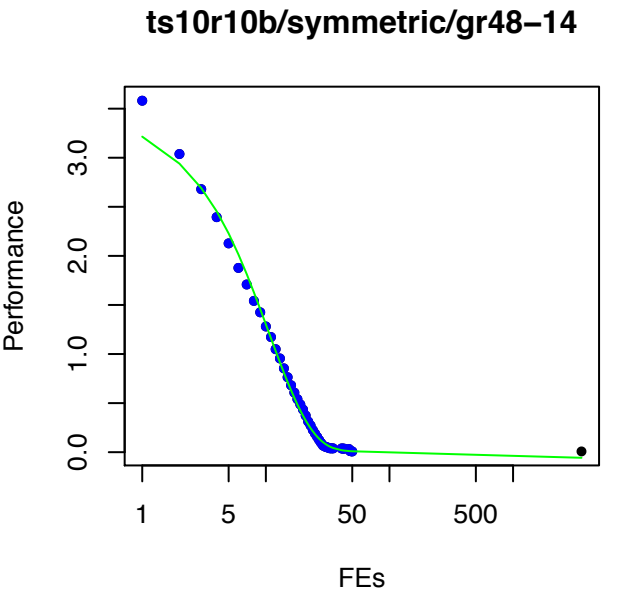
500
FEs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Performance
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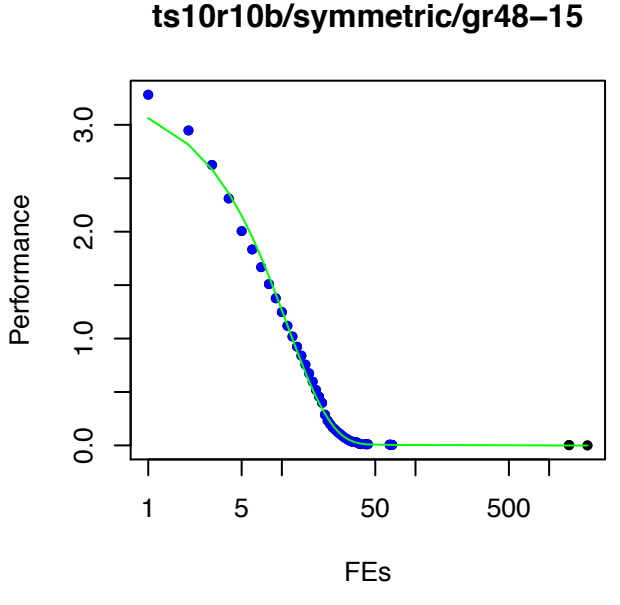
500
FEs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Performance
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2.0
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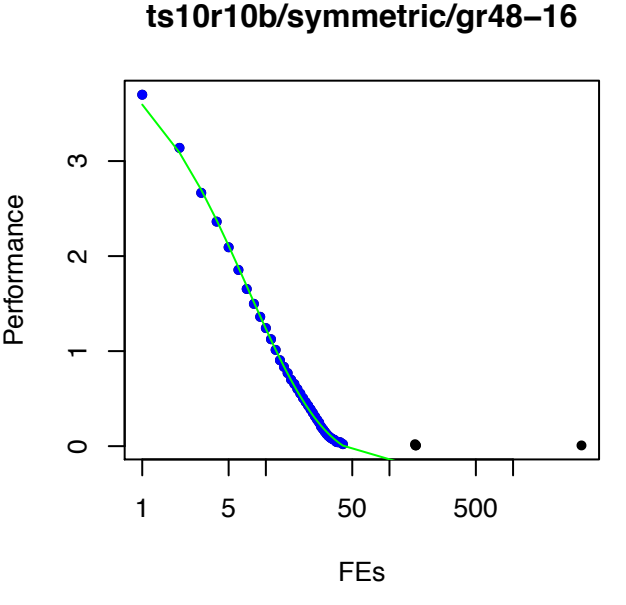
1
5
50
500
FEs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Performance
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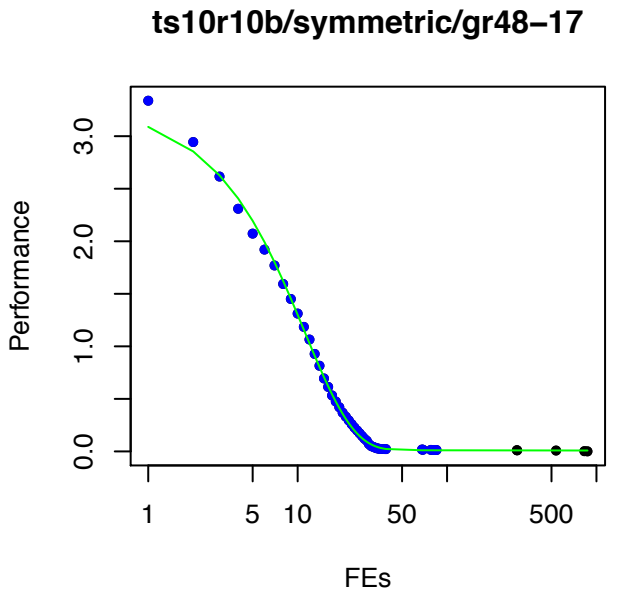
2
3
1
5
50
500
FEs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Performance
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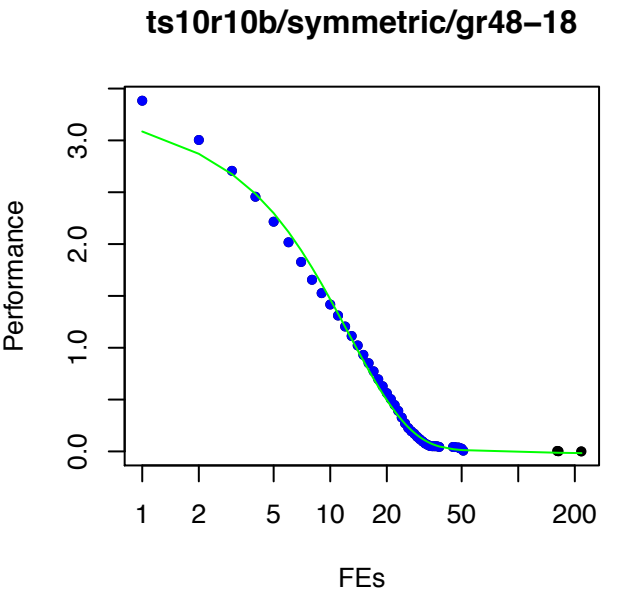
1.0
2.0
3.0
1
5
10
50
500
FEs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Performance
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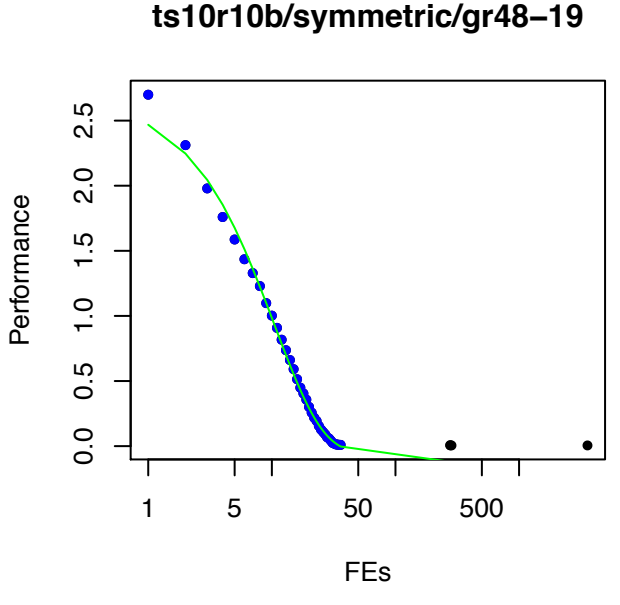
5
10
20
50
200
FEs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Performance
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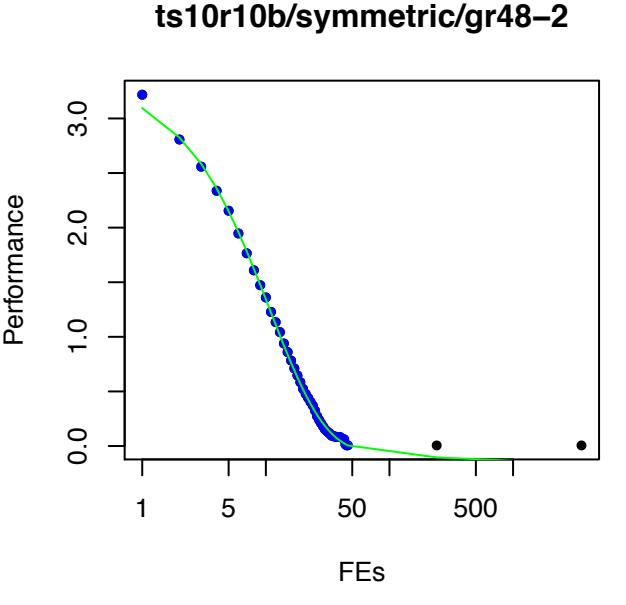
1.0
1.5
2.0
2.5
1
5
50
500
FEs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Performance
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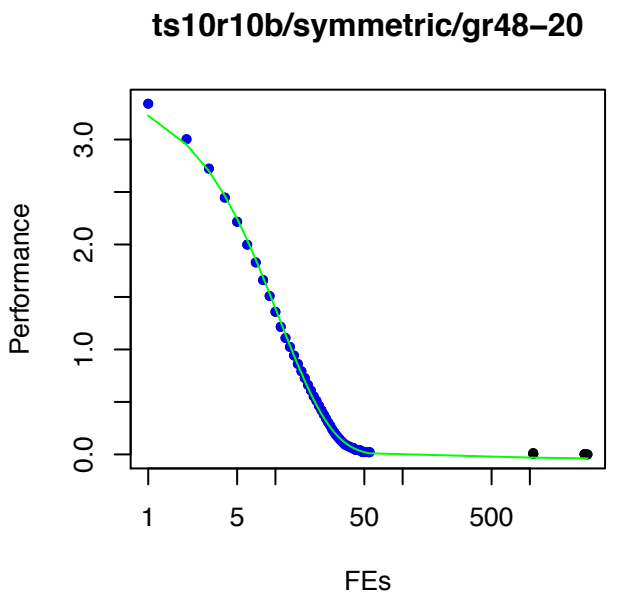
2.0
3.0
1
5
50
500
FEs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Performance
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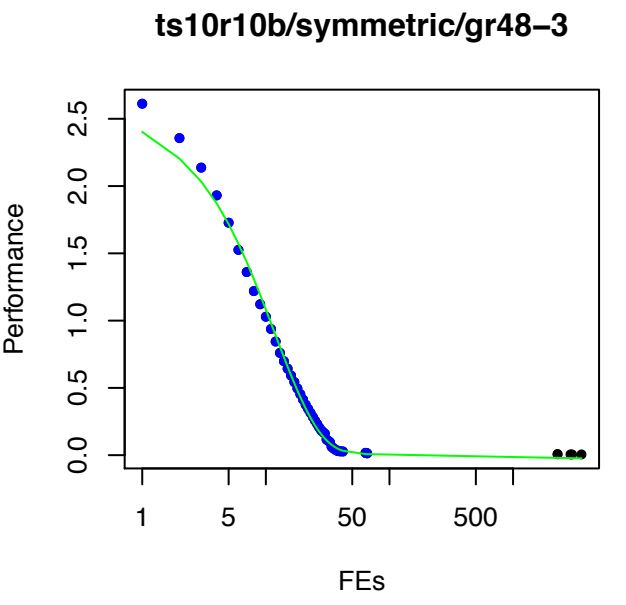
2.0
3.0
1
5
50
500
FEs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Performance
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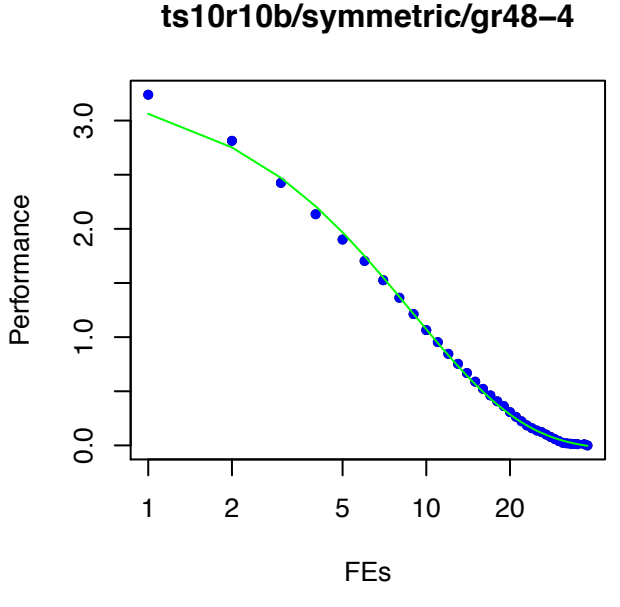
1.5
2.0
2.5
1
5
50
500
FEs


ts10r10b/symmetric/gr48−4
Performance
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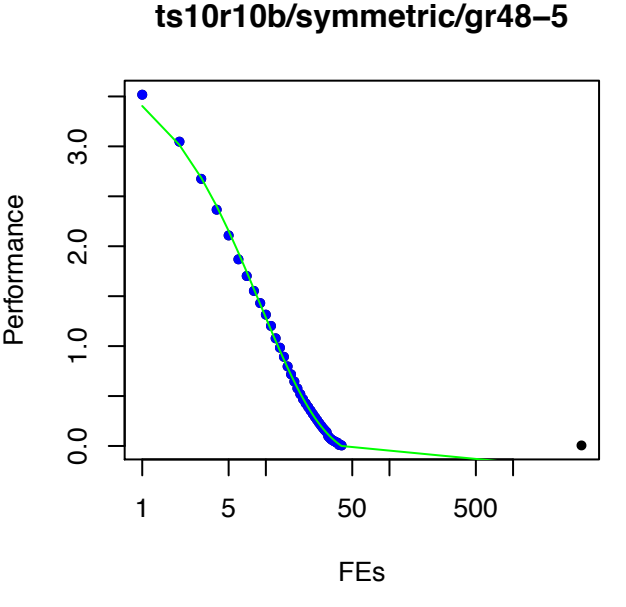
3.0
1
2
5
10
20
FEs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Performance
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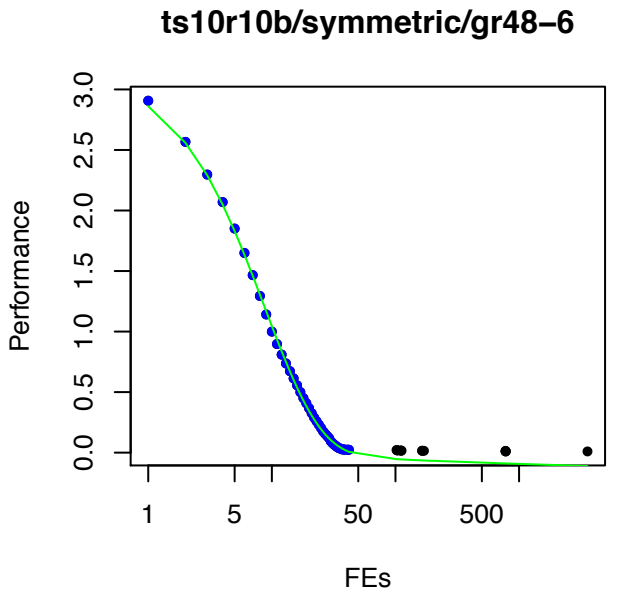
2.0
3.0
1
5
50
500
FEs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Performance
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1.5
2.0
2.5
3.0
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5
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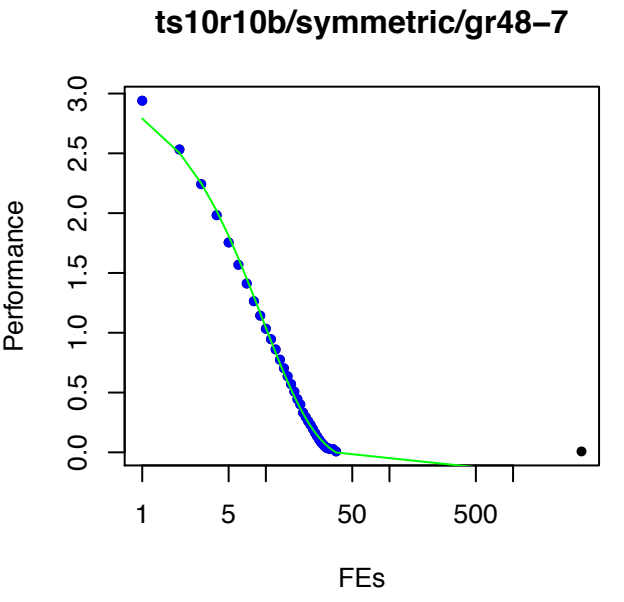
500
FEs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Performance
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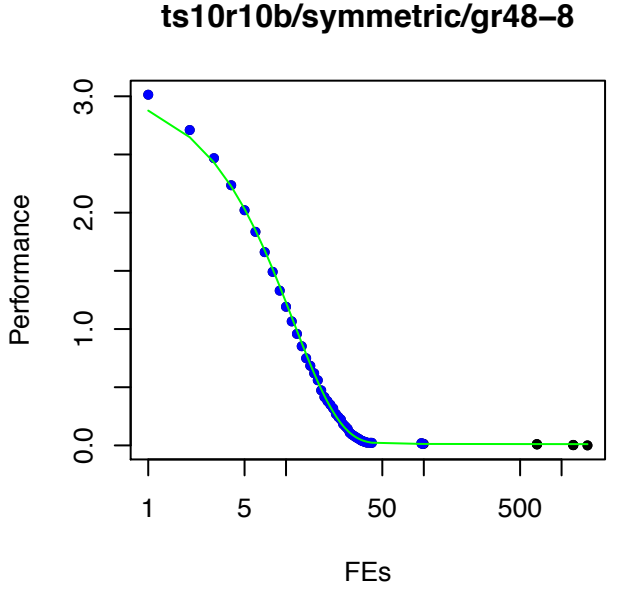
1.5
2.0
2.5
3.0
1
5
50
500
FEs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Performance
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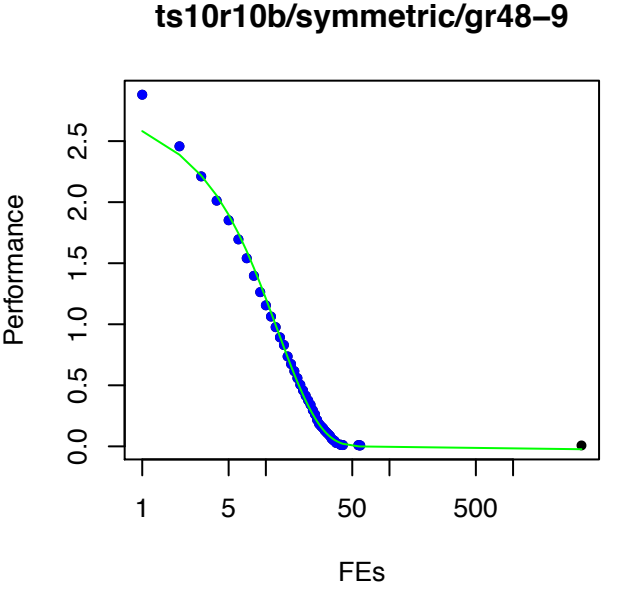
500
FEs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Performance
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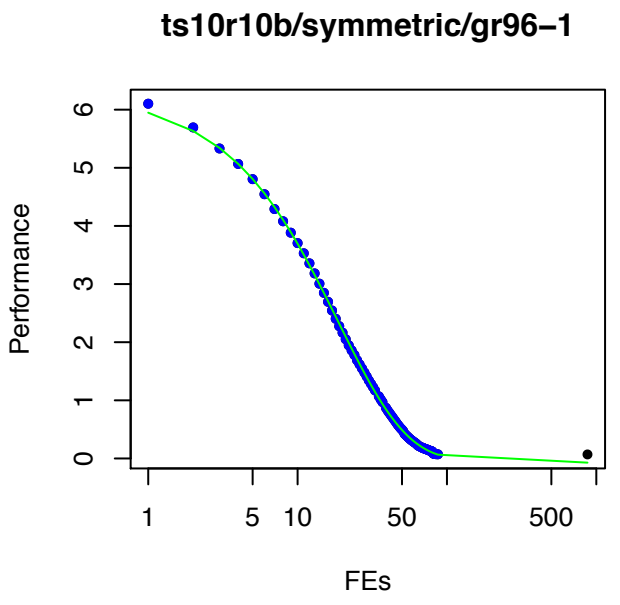
FEs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Performance
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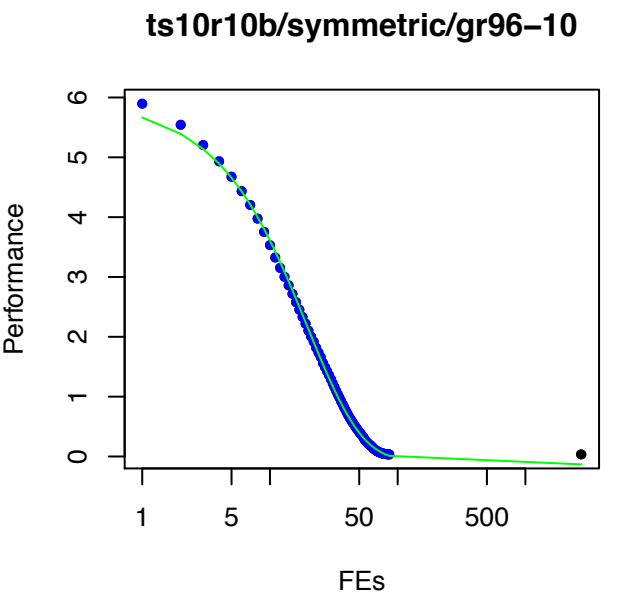
500
FEs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Performance
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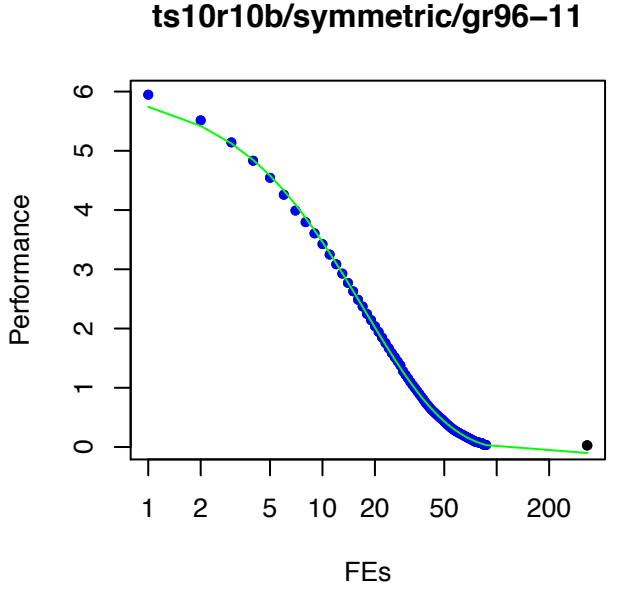
FEs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Performance
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2
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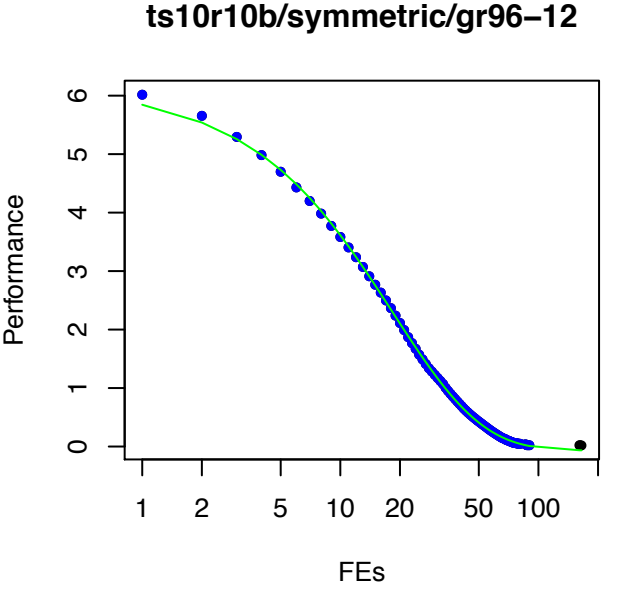
FEs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Performance
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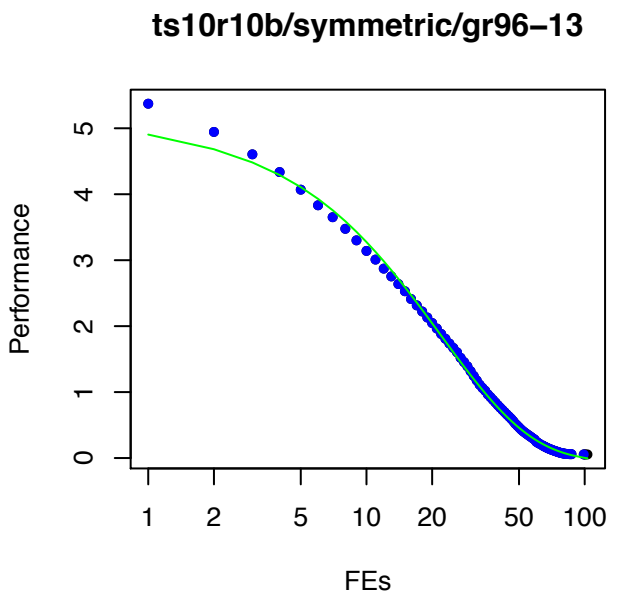
FEs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Performance
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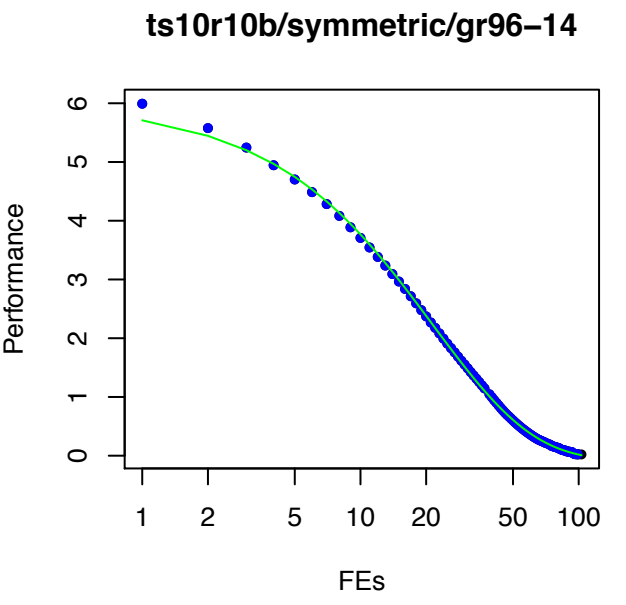
100
FEs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Performance
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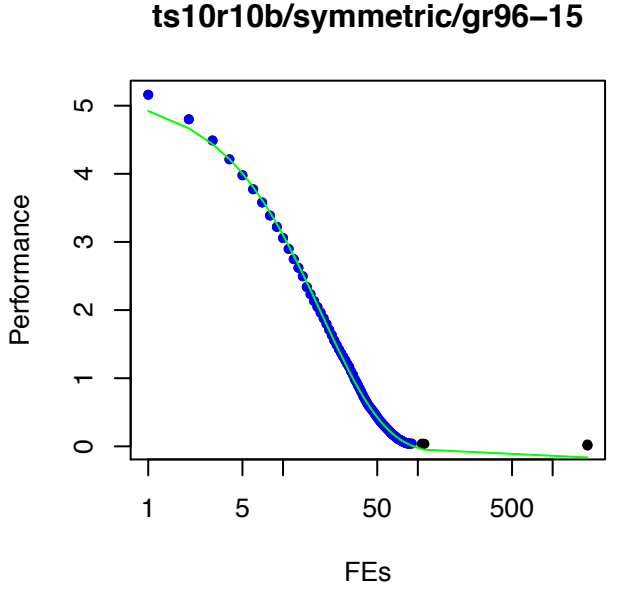
100
FEs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Performance
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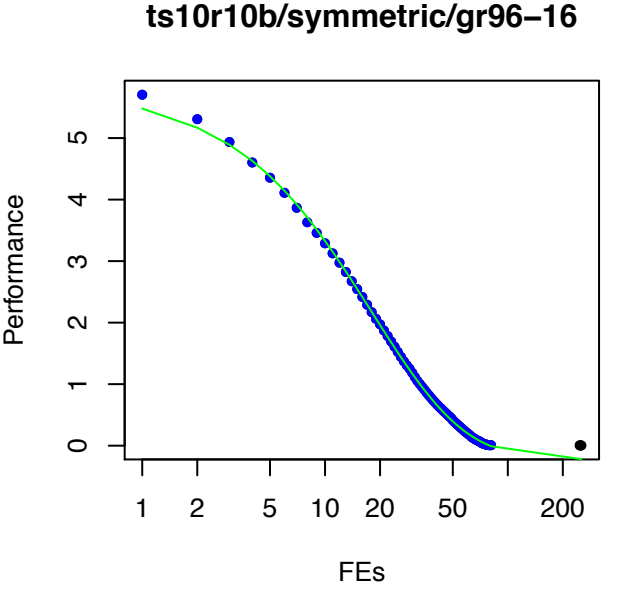
500
FEs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Performance
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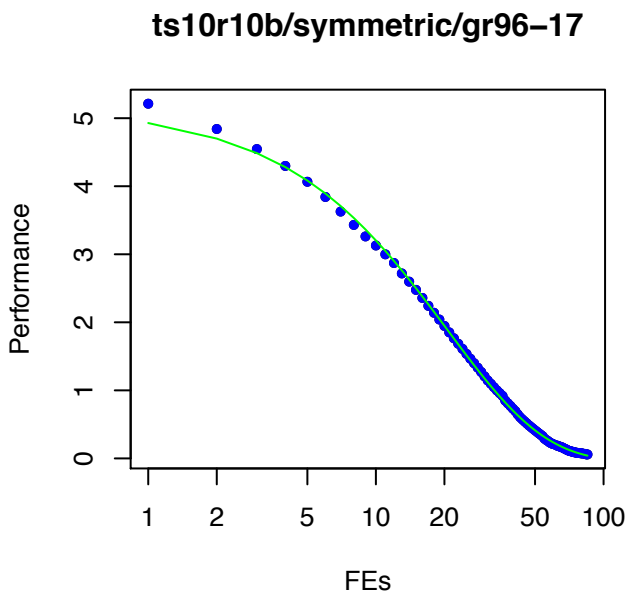
200
FEs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Performance
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2
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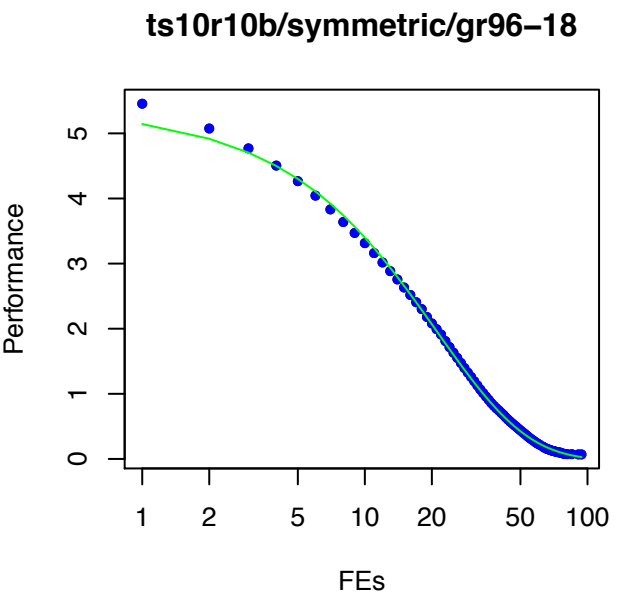
50
100
FEs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Performance
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2
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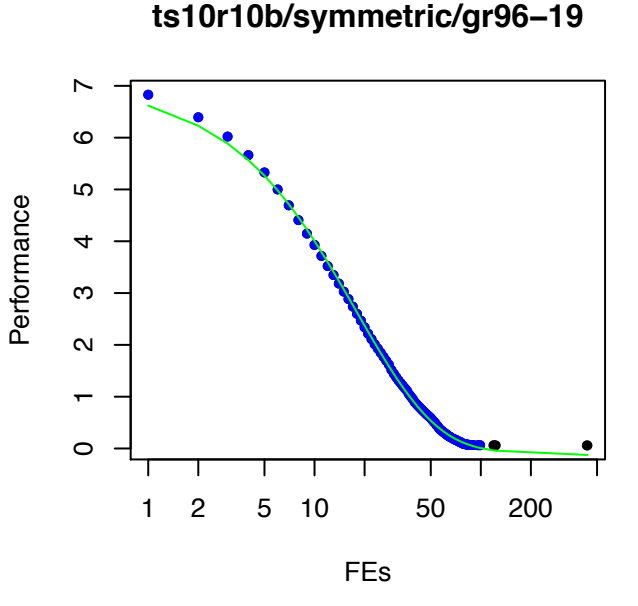
100
FEs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Performance
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2
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10
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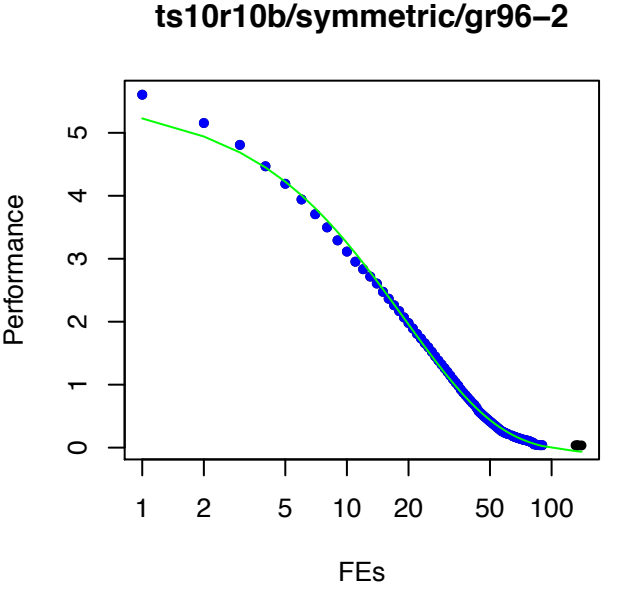
200
FEs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Performance
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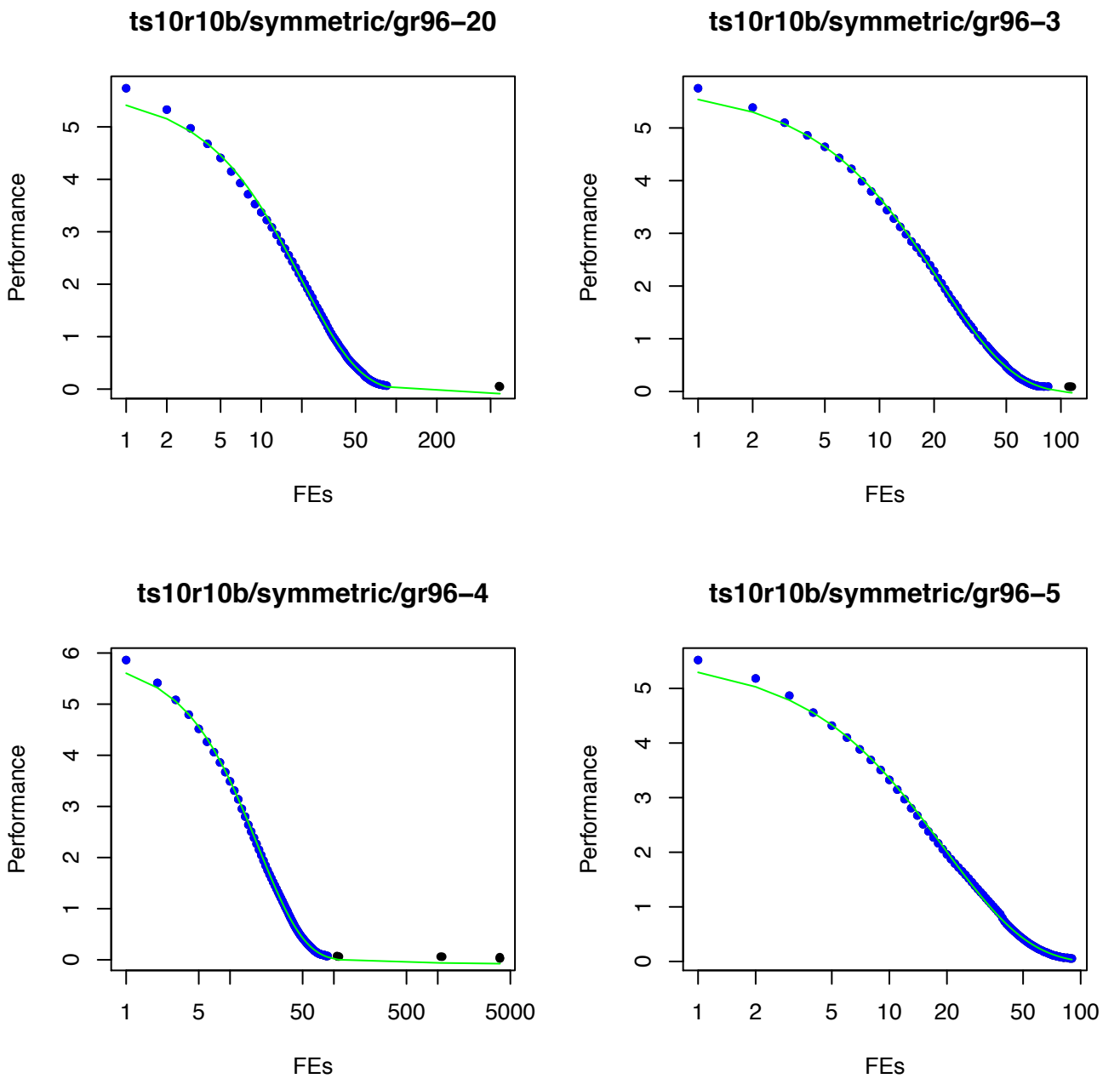
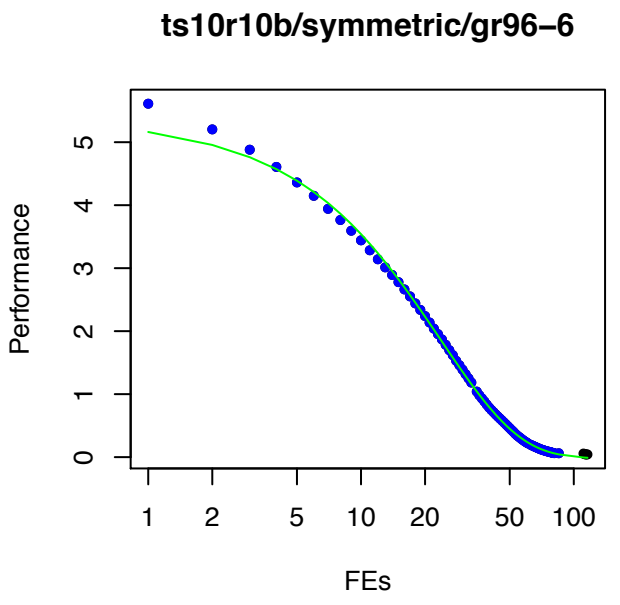
100
FEs


ts10r10b/symmetric/gr96−20
Performance
FEs
ts10r10b/symmetric/gr96−3
Performance
FEs
ts10r10b/symmetric/gr96−4
Performance
FEs
ts10r10b/symmetric/gr96−5
Performance
FEs


ts10r10b/symmetric/gr96−6
Performance
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2
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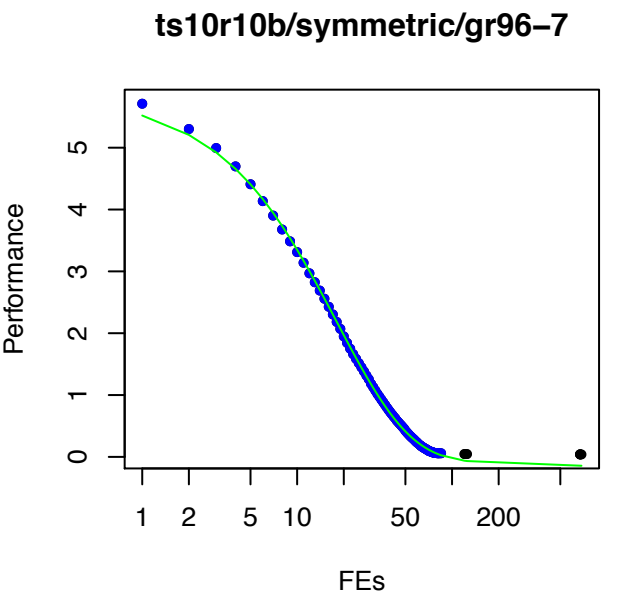
100
FEs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Performance
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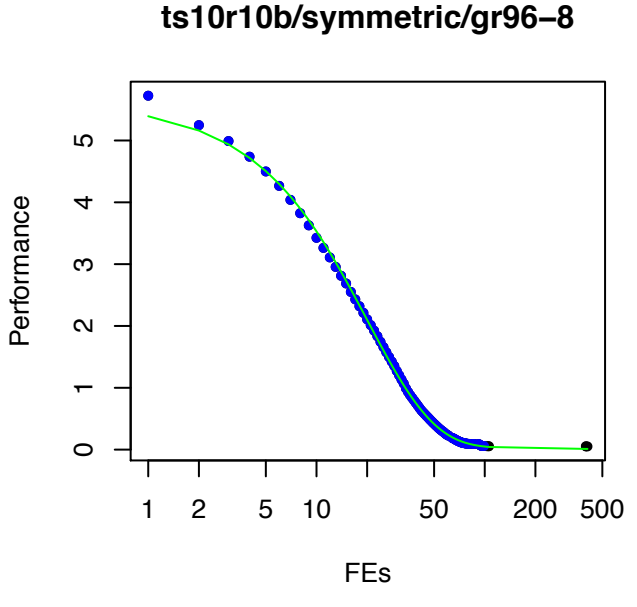
10
50
200
FEs


ts10r10b/symmetric/gr96−8
Performance
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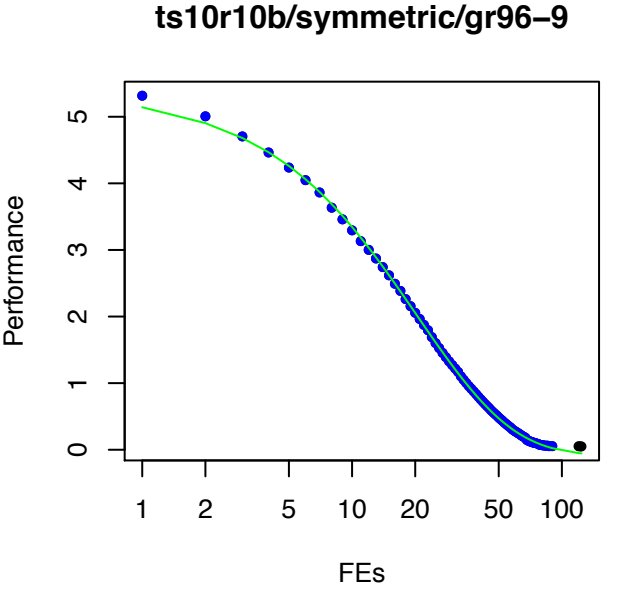
FEs


ts10r10b/symmetric/gr96−9
Performance
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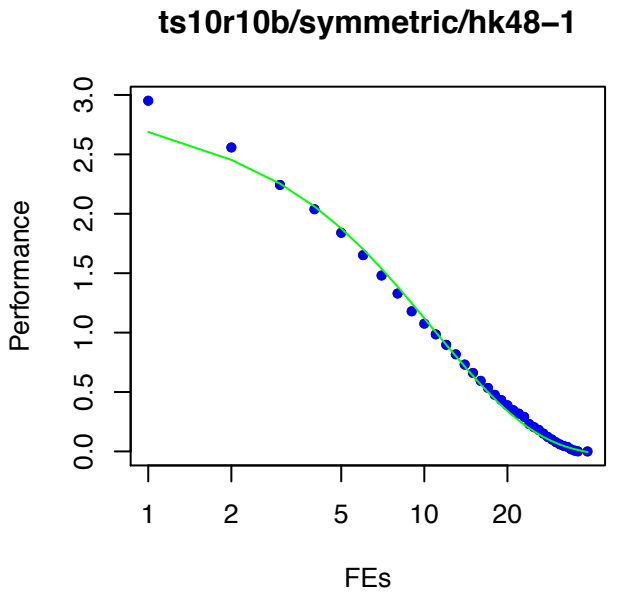
ts10r10b/symmetric/hk48−1
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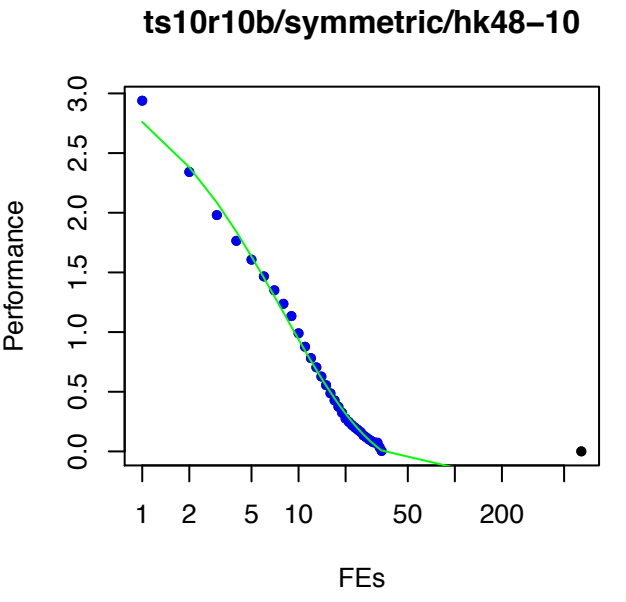
10
20
FEs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2.0
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1
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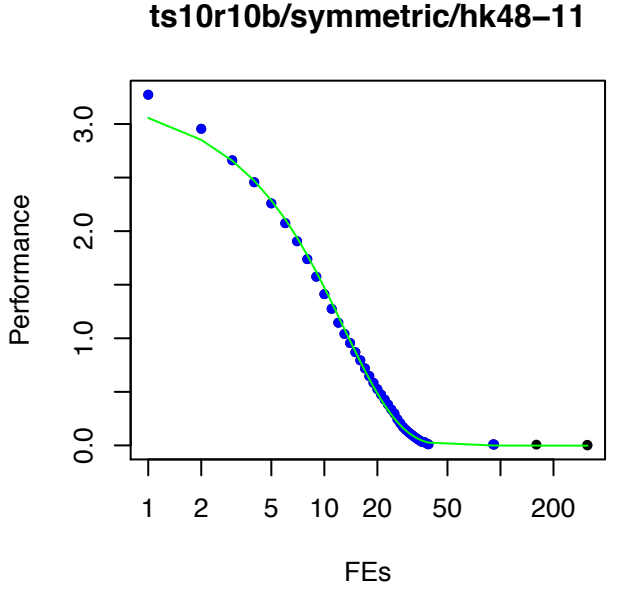
200
FEs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Performance
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20
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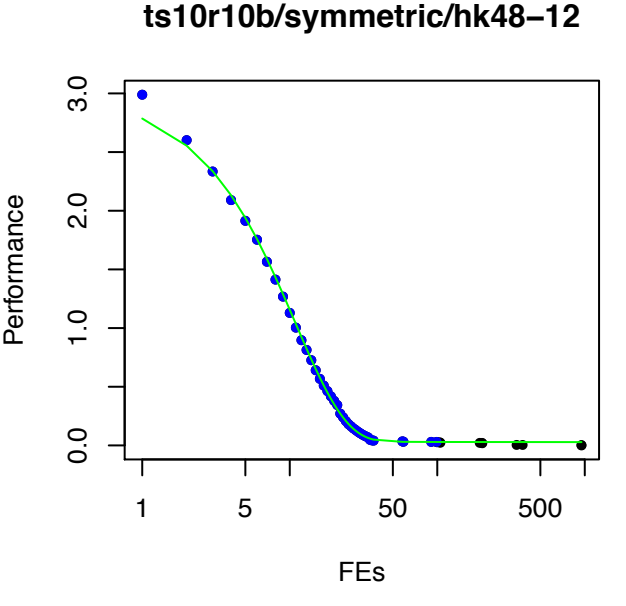
200
FEs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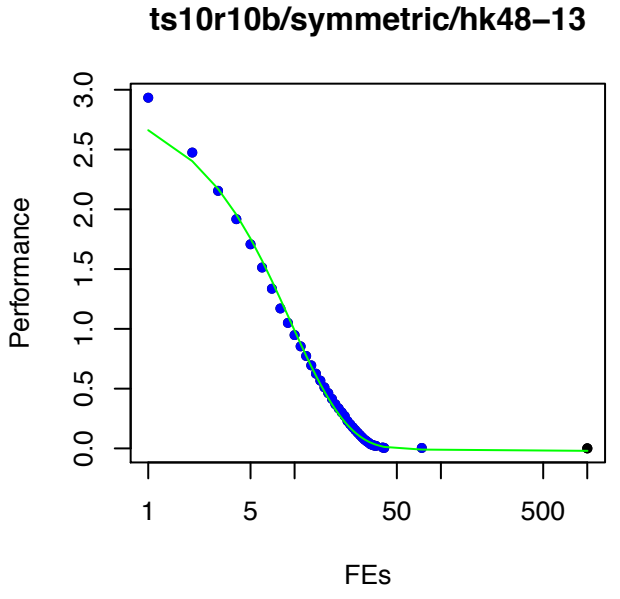
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2.0
2.5
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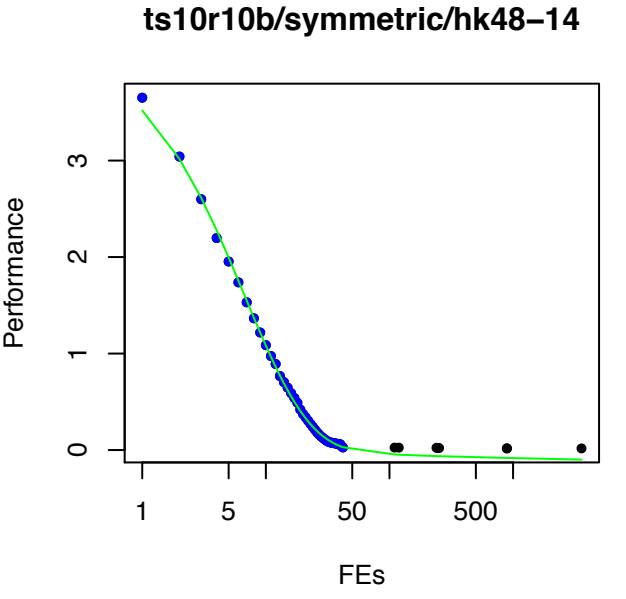
500
FEs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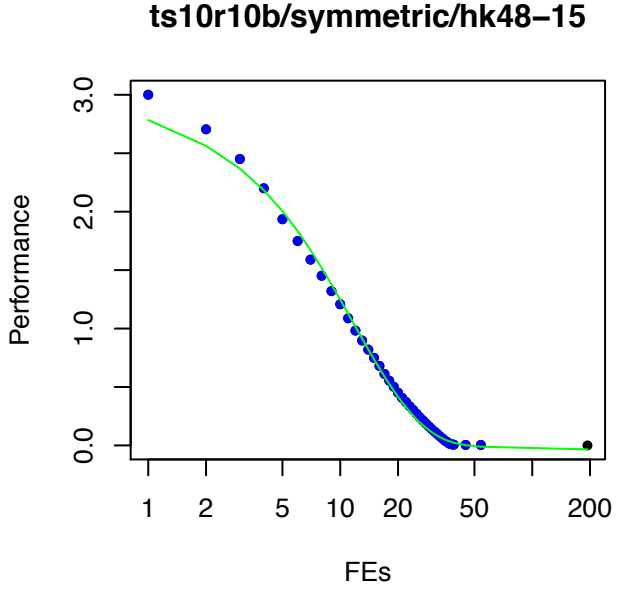
FEs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Performance
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1.0
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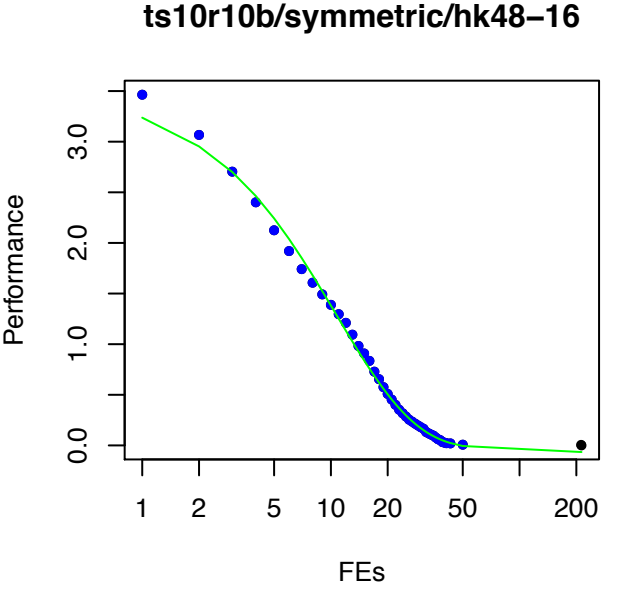
200
FEs


ts10r10b/symmetric/hk48−16
Performance
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1
2
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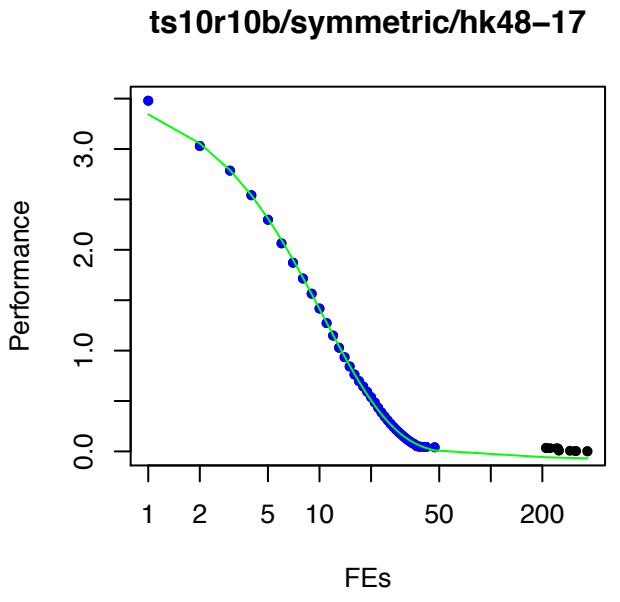
10
20
50
200
FEs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Performance
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1
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10
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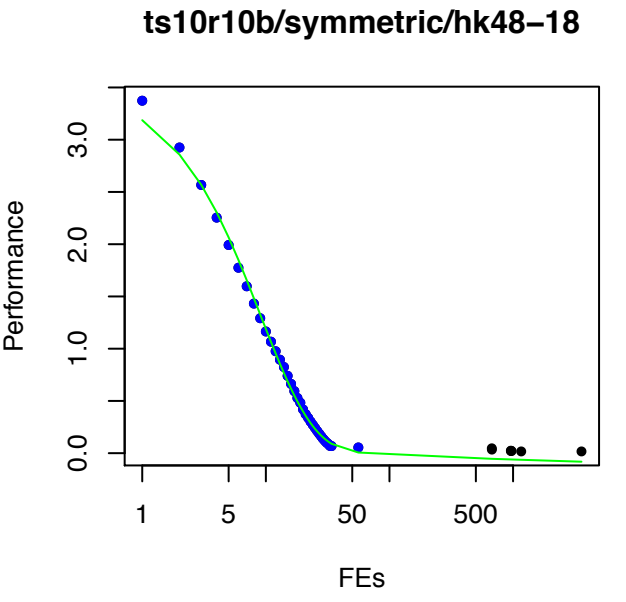
200
FEs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Performance
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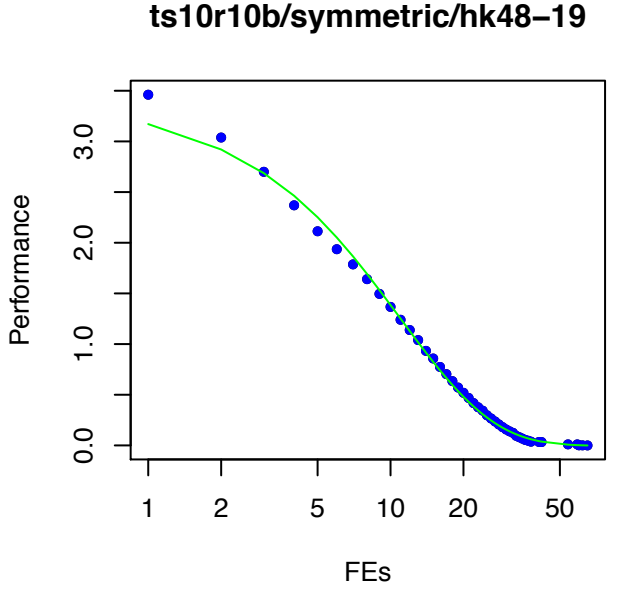
500
FEs


ts10r10b/symmetric/hk48−19
Performance
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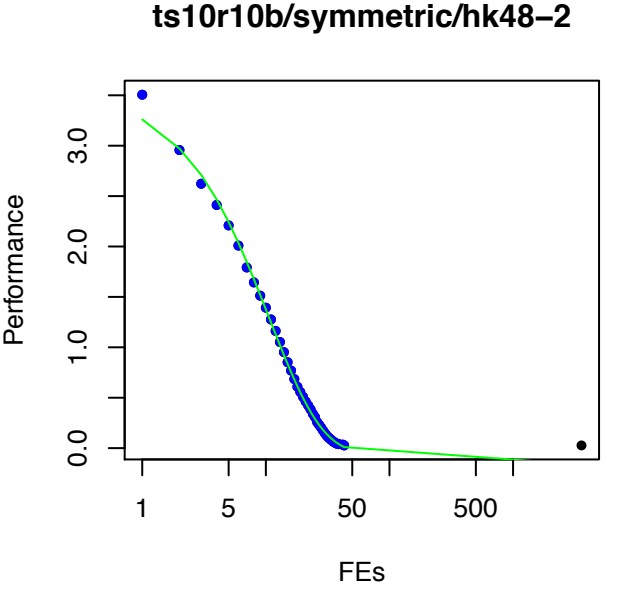
1.0
2.0
3.0
1
2
5
10
20
50
FEs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Performance
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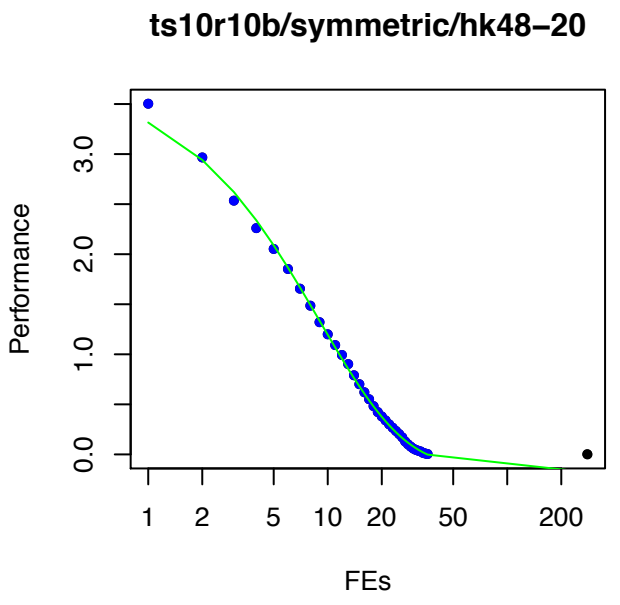
2.0
3.0
1
5
50
500
FEs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Performance
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2.0
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2
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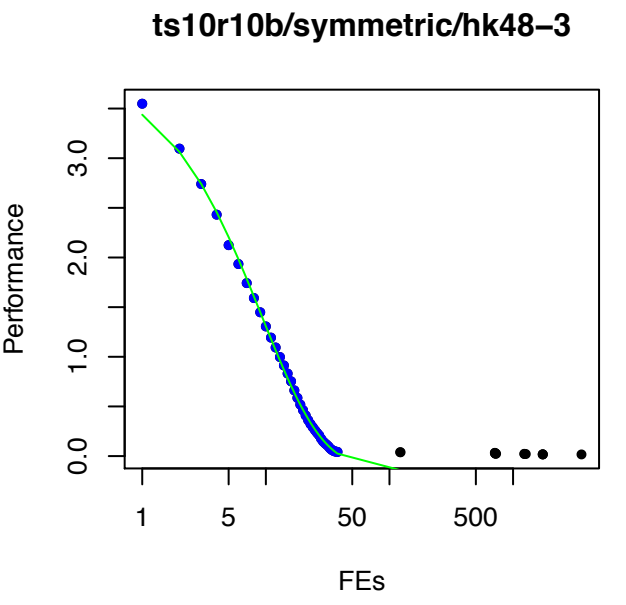
10
20
50
200
FEs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Performance
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2.0
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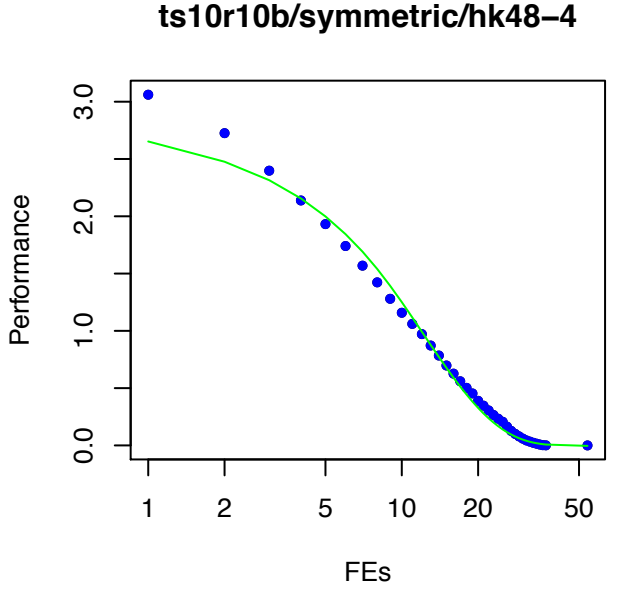
1
5
50
500
FEs


ts10r10b/symmetric/hk48−4
Performance
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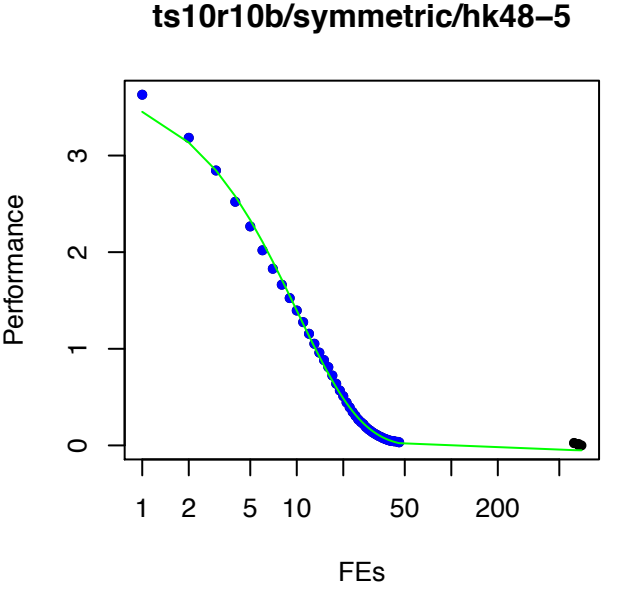
2.0
3.0
1
2
5
10
20
50
FEs


ts10r10b/symmetric/hk48−5
Performance
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3
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2
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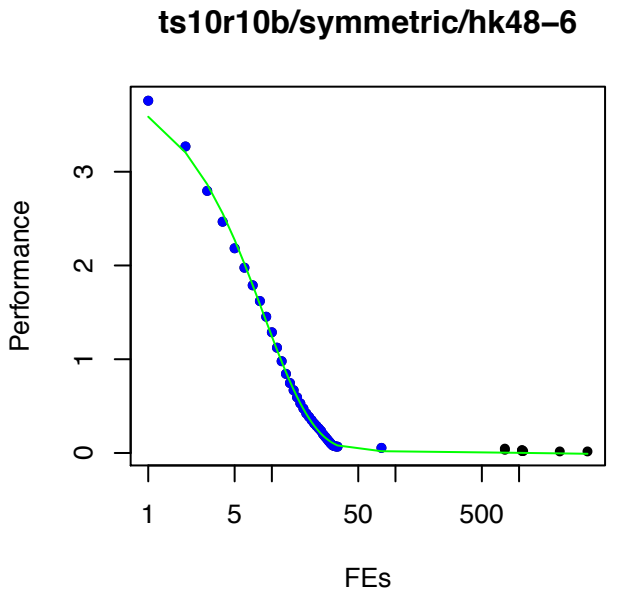
10
50
200
FEs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Performance
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5
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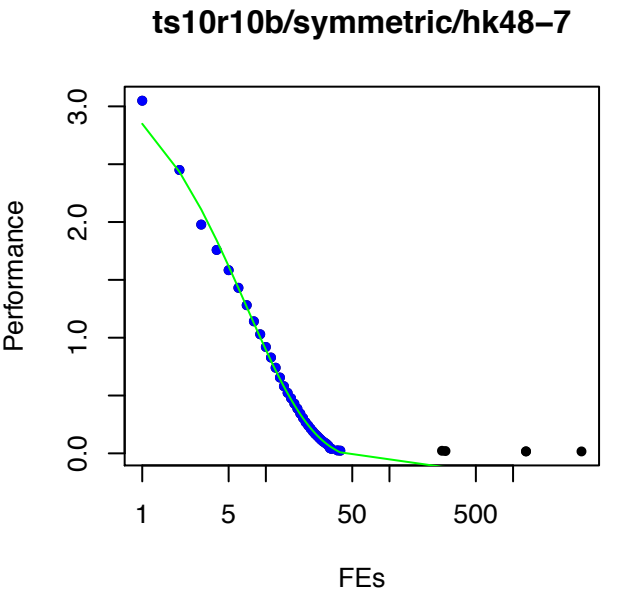
500
FEs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Performance
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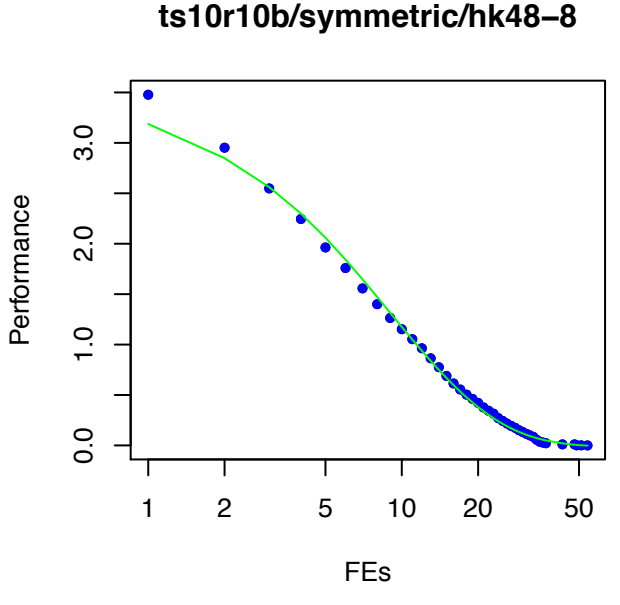
500
FEs


ts10r10b/symmetric/hk48−8
Performance
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10
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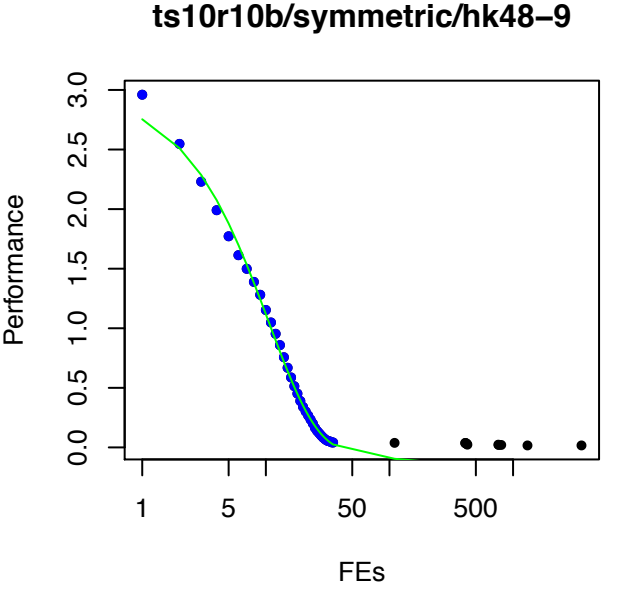
50
FEs


ts10r10b/symmetric/hk48−9
Performance
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2.5
3.0
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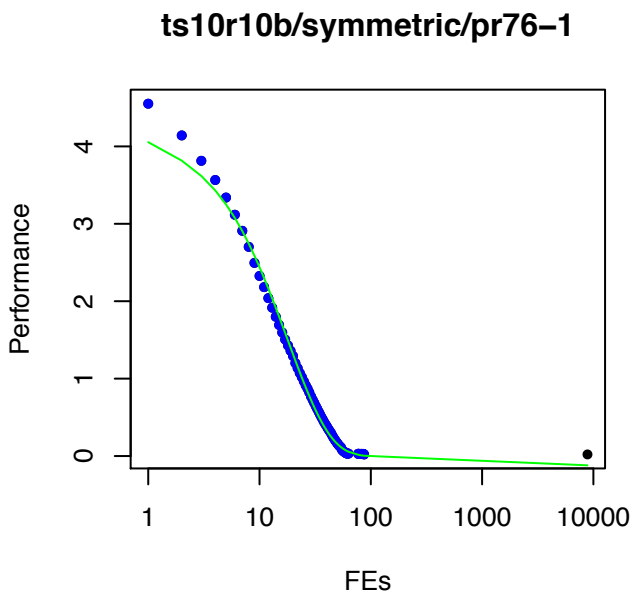
500
FEs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Performance
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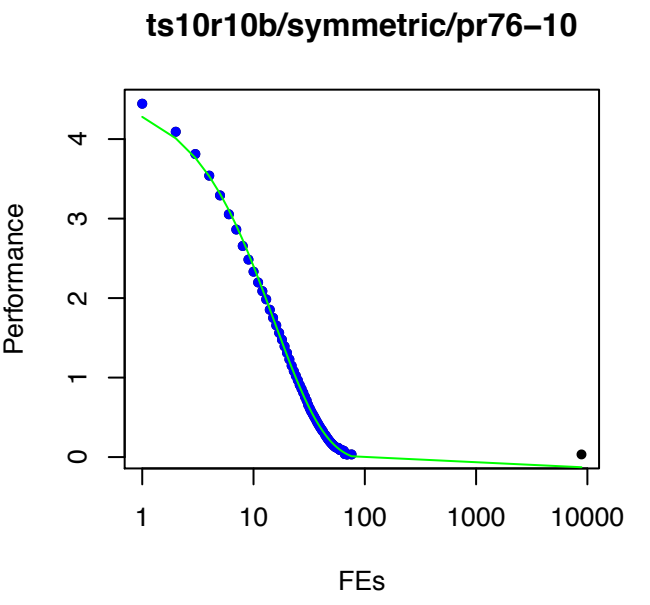
10000
FEs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Performance
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4
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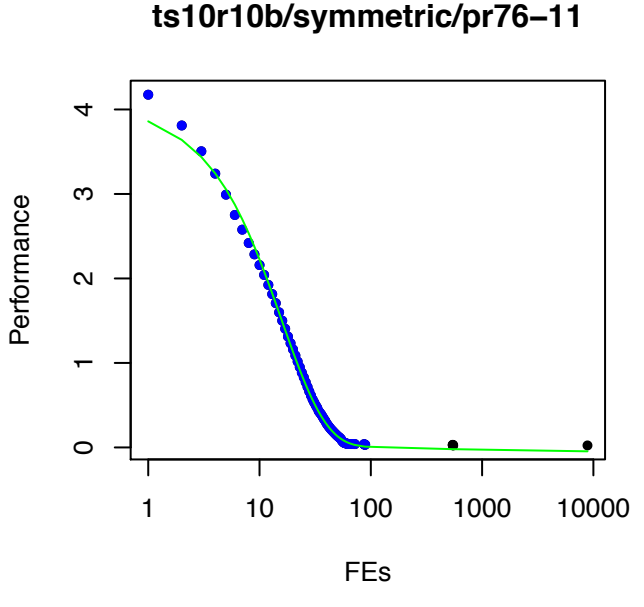
1000
10000
FEs


ts10r10b/symmetric/pr76−11
Performance
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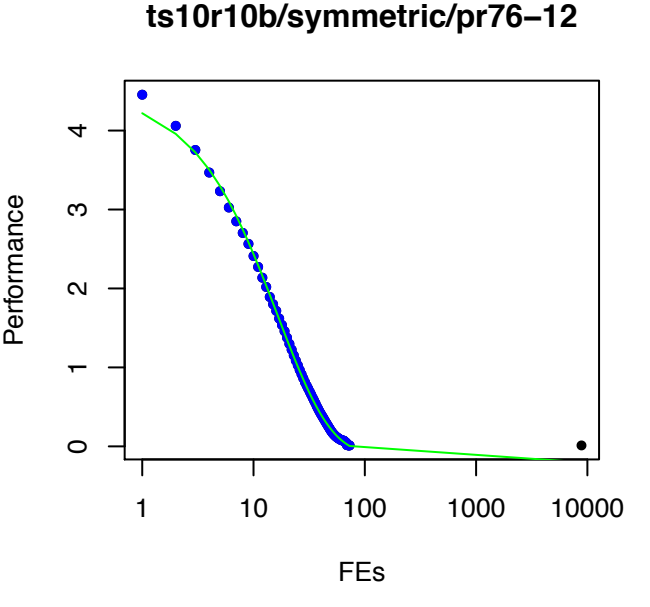
FEs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Performance
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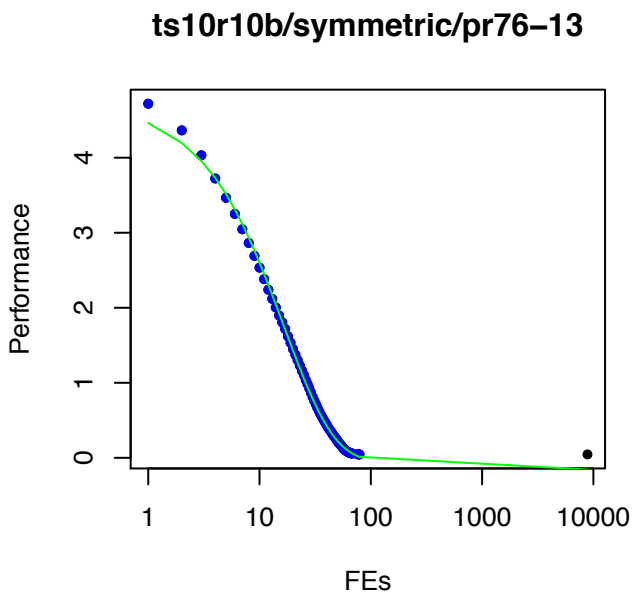
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Performance
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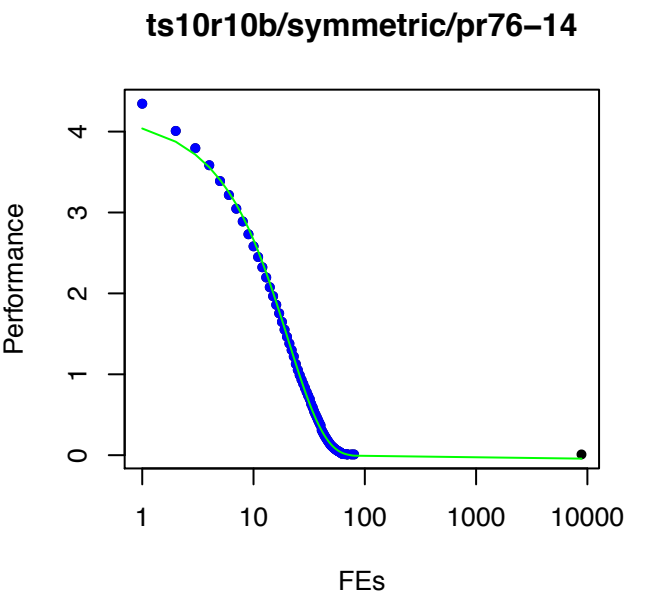
FEs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Performance
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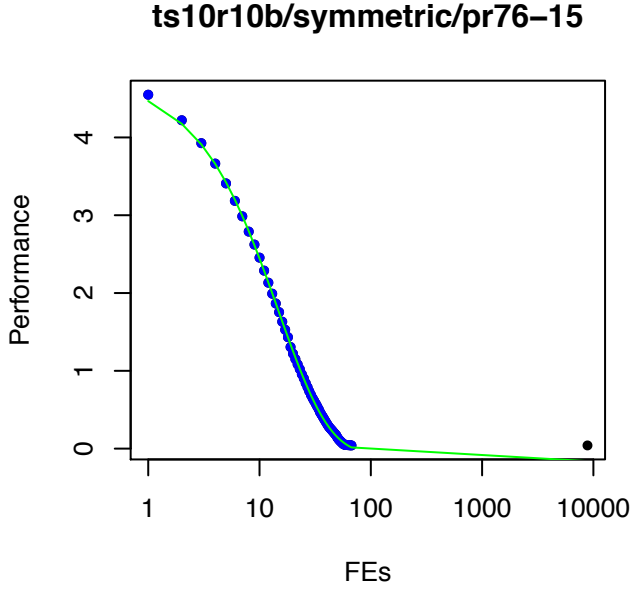
FEs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Performance
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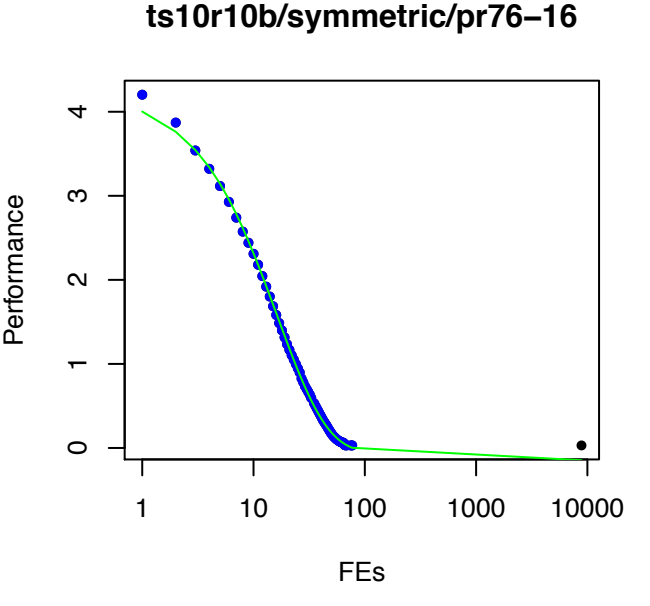
FEs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Performance
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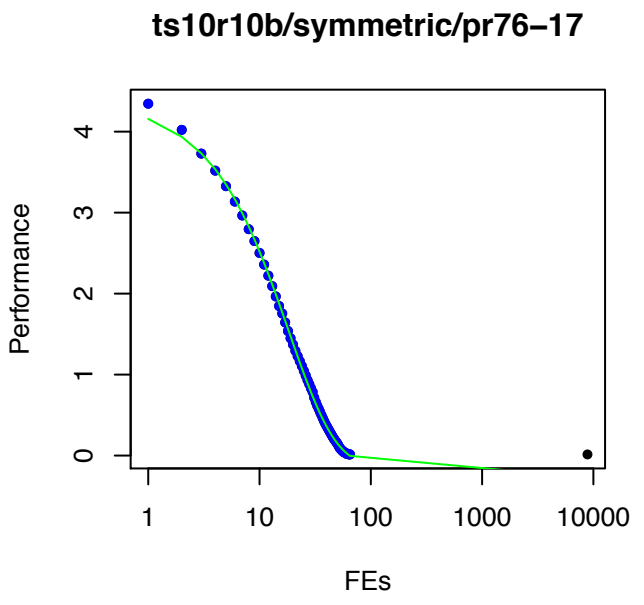
10000
FEs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Performance
FEs
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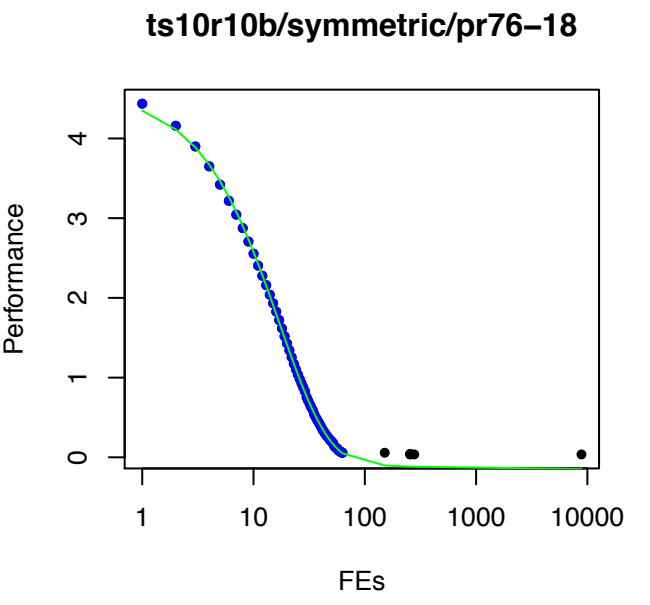
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Performance
FEs
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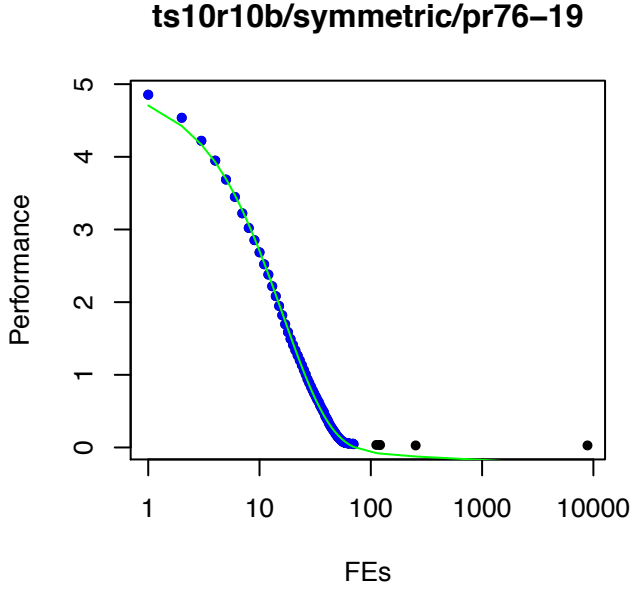
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Performance
FEs
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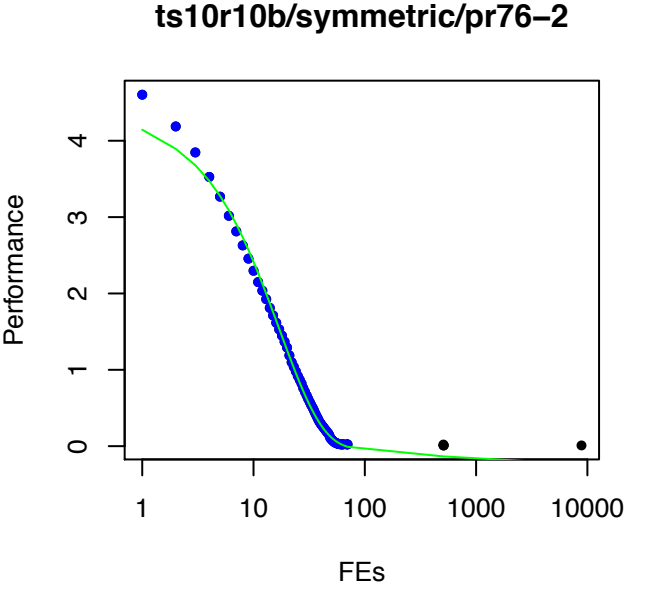
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Performance
FEs
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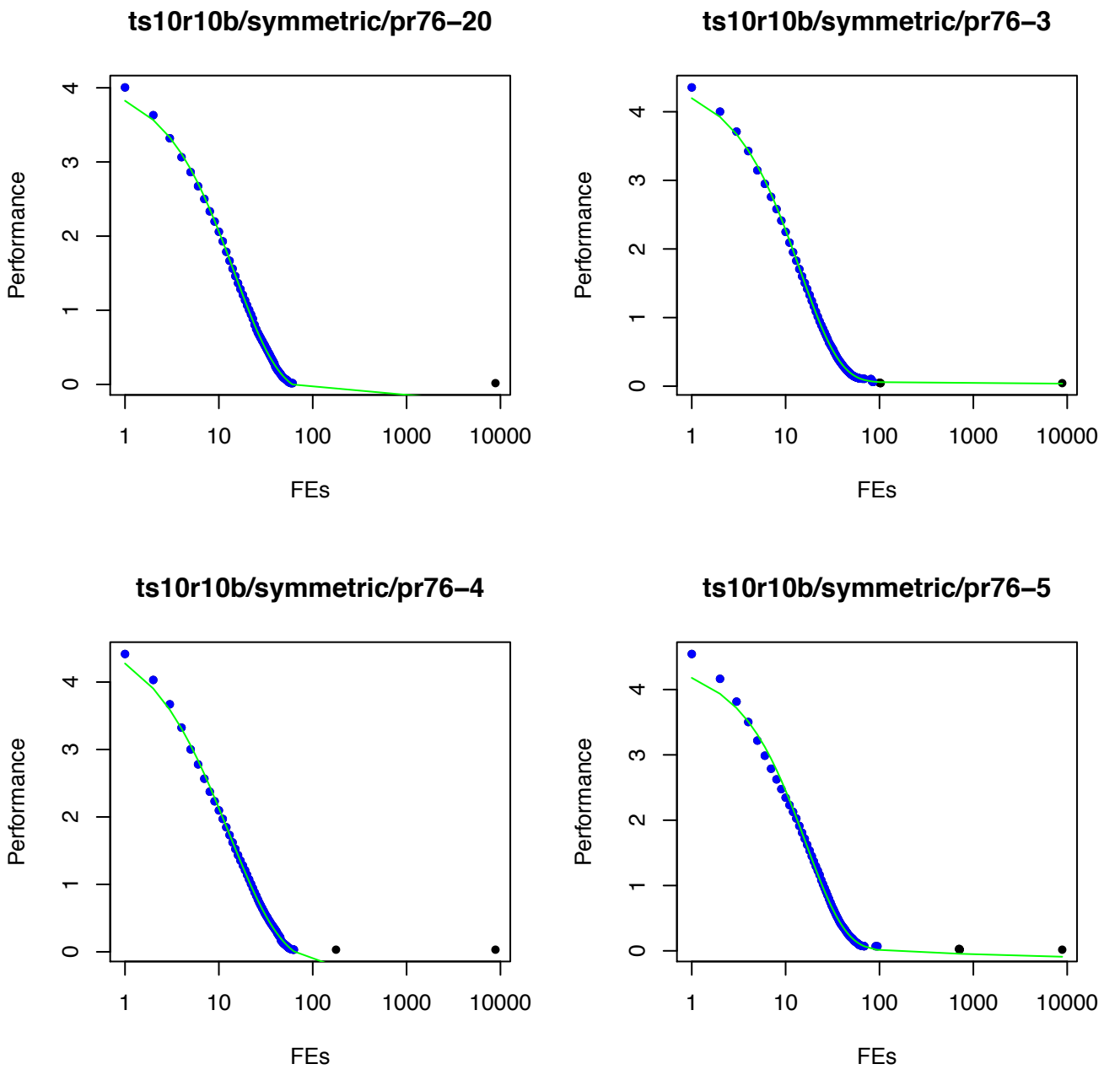
ts10r10b/symmetric/pr76−20
ts10r10b/symmetric/pr76−3
ts10r10b/symmetric/pr76−4
ts10r10b/symmetric/pr76−5
Performance
FEs
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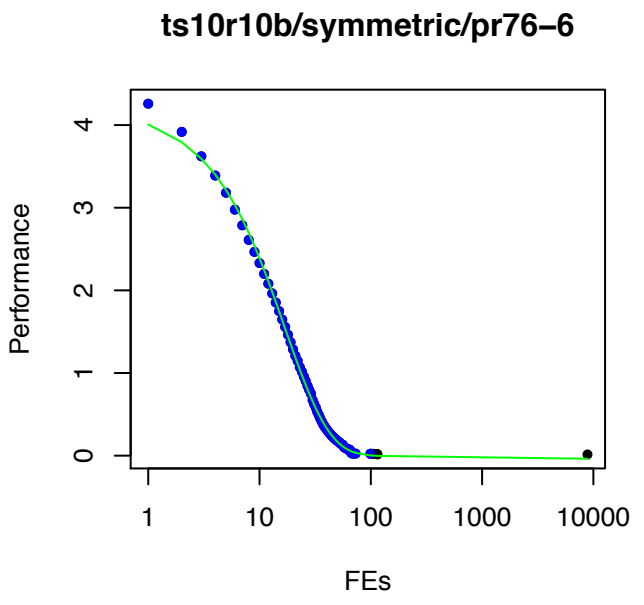
10
100
1000
10000


ts10r10b/symmetric/pr76−6
Performance
FEs
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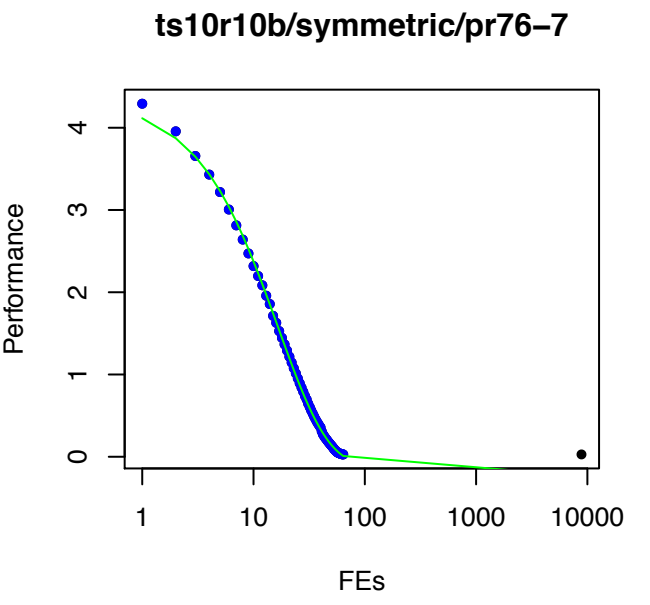
1000
10000


ts10r10b/symmetric/pr76−7
Performance
FEs
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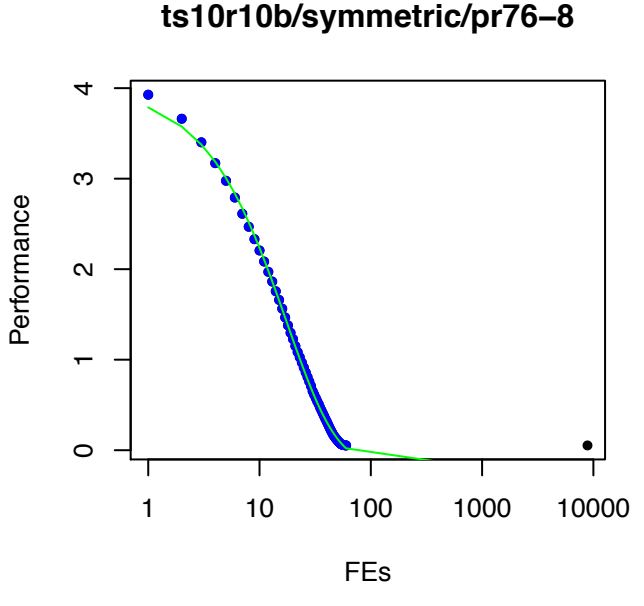
1000
10000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Performance
FEs
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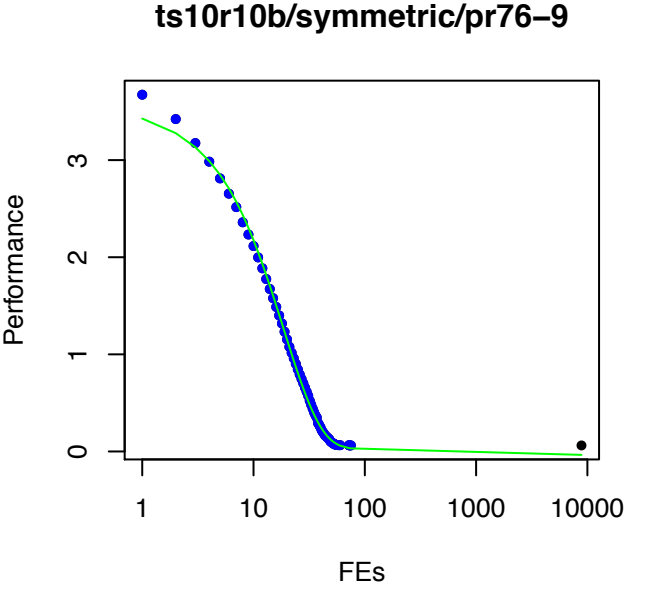
1000
10000


ts10r10b/symmetric/pr76−9
Performance
FEs
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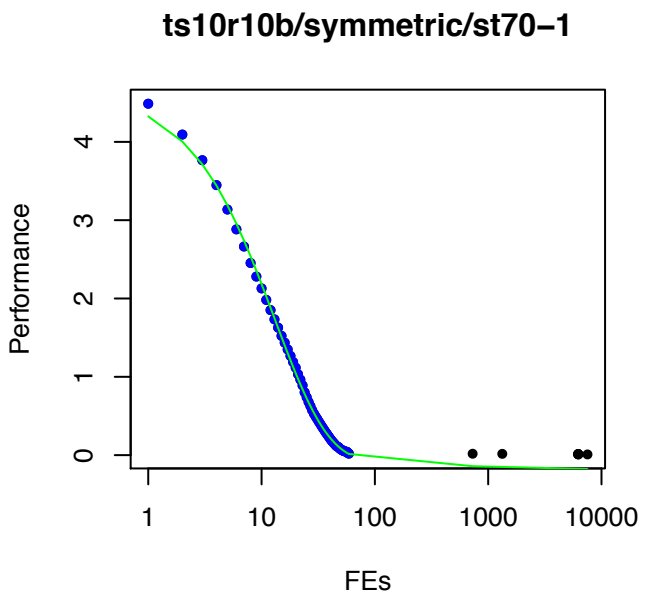
1000
10000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Performance
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3
4
1
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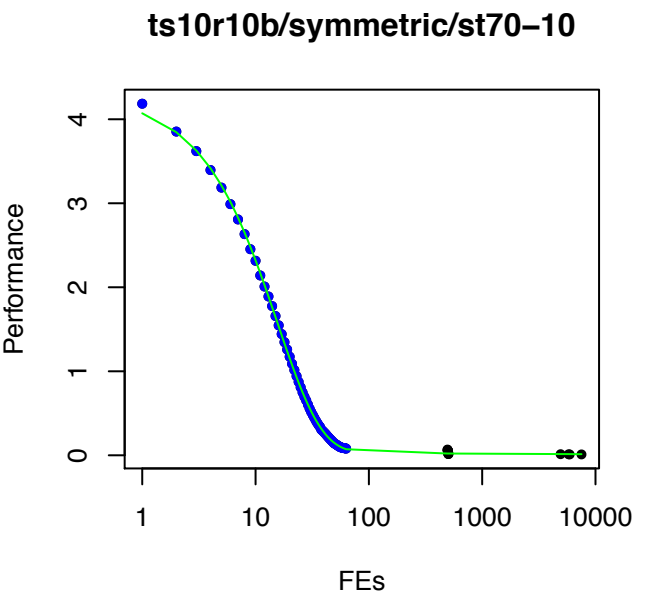
100
1000
10000
FEs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Performance
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3
4
1
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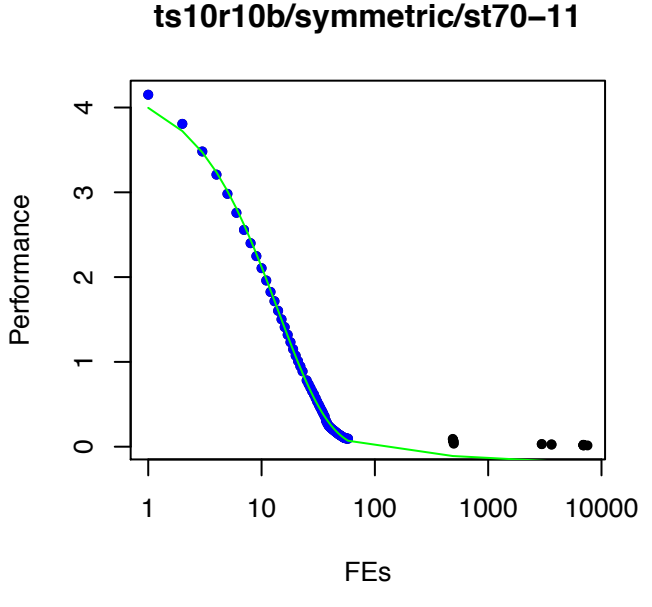
100
1000
10000
FEs


ts10r10b/symmetric/st70−11
Performance
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1
2
3
4
1
10
100
1000
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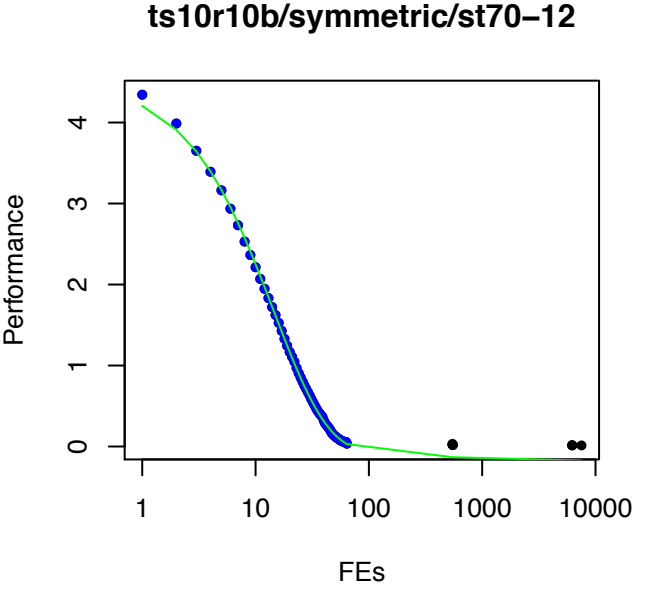
FEs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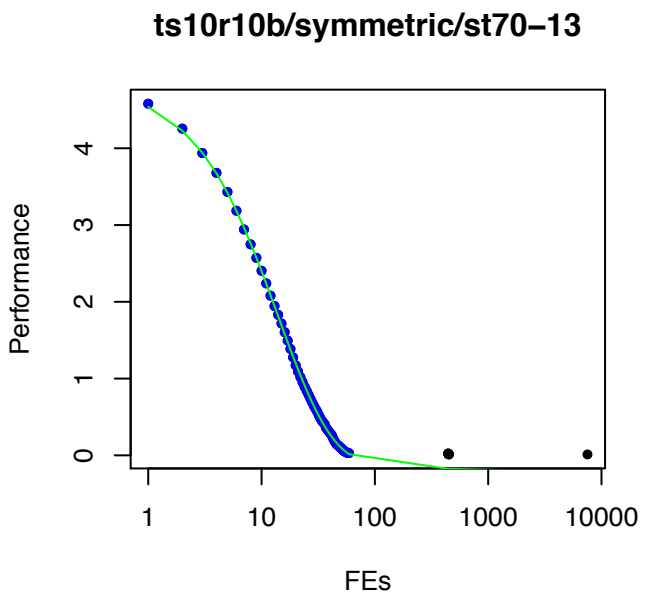
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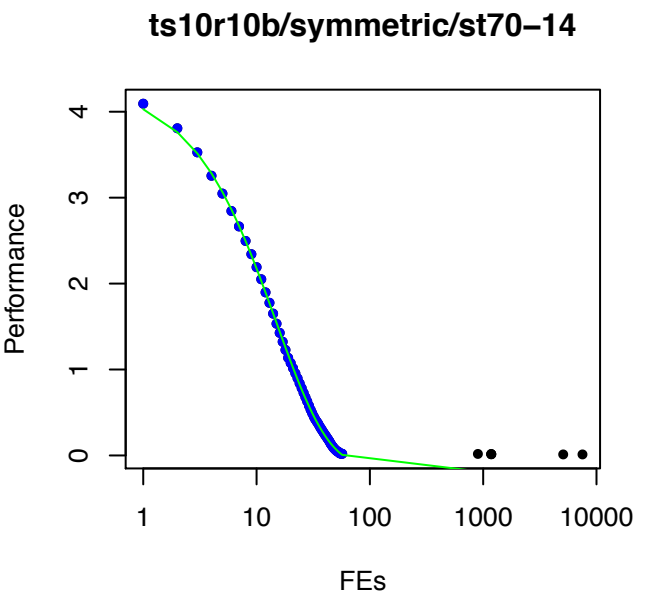
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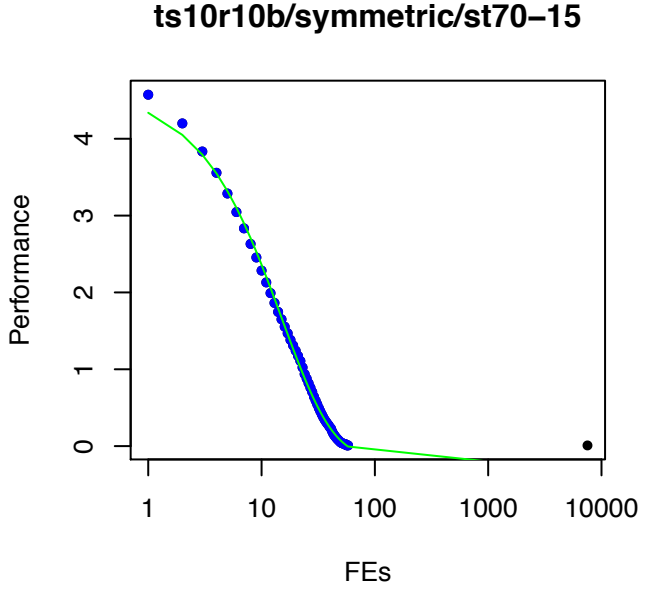
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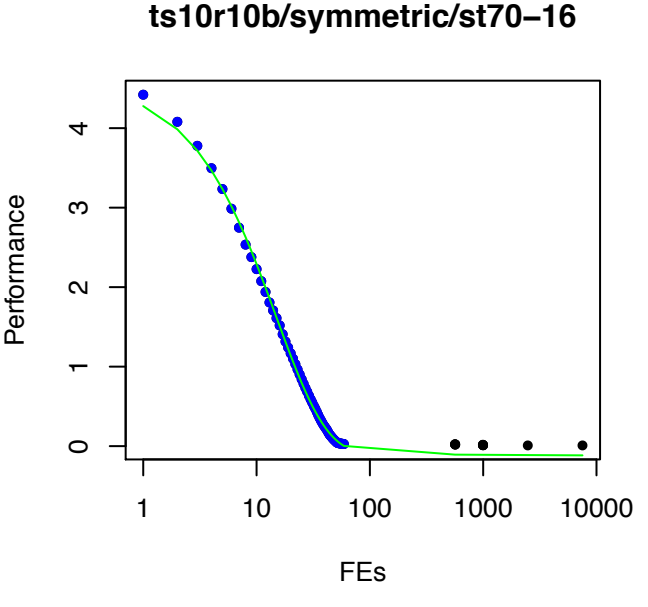
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Performance
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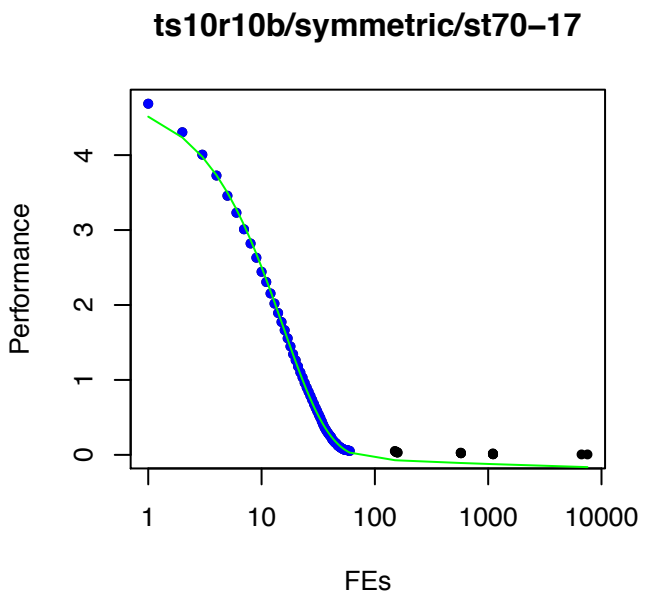
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Performance
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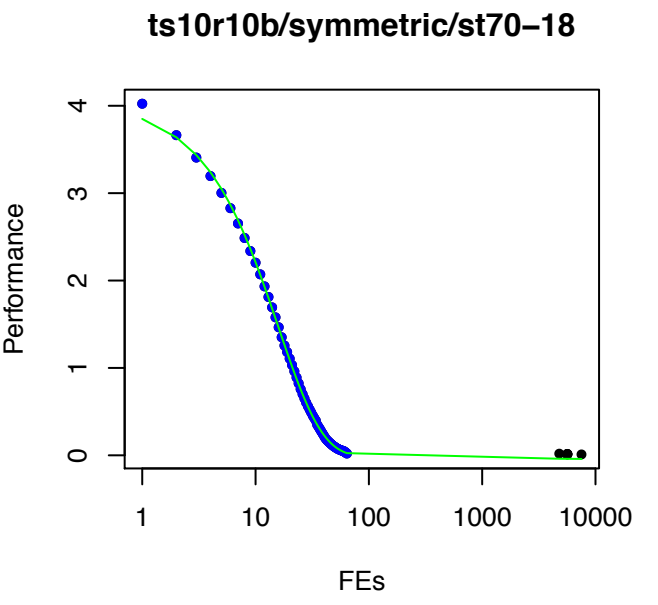
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Performance
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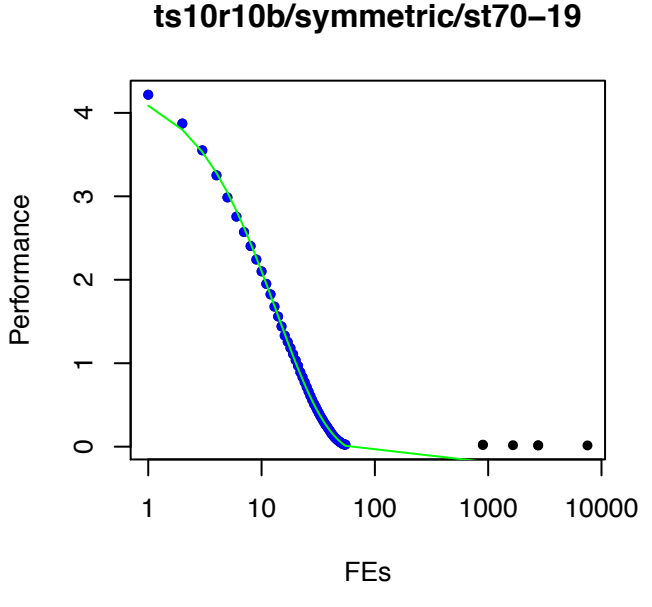
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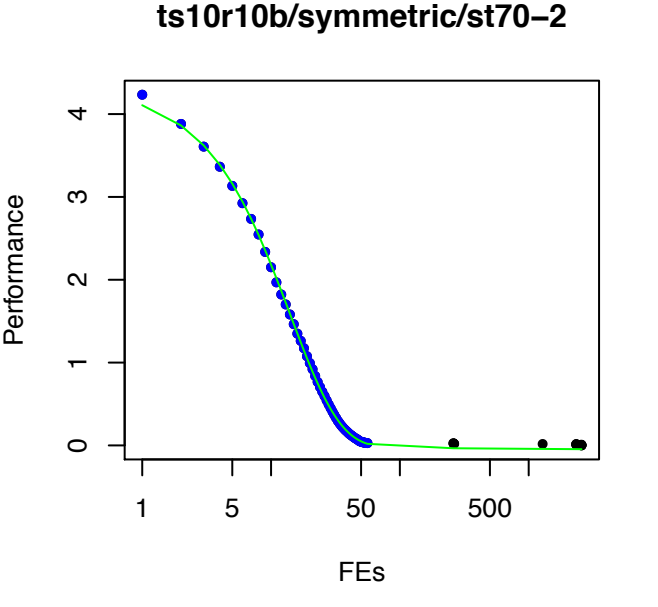
FEs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Performance
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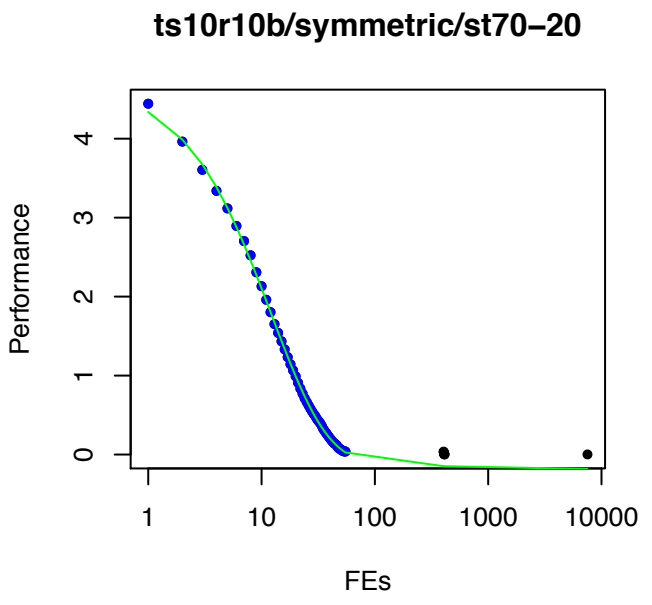
FEs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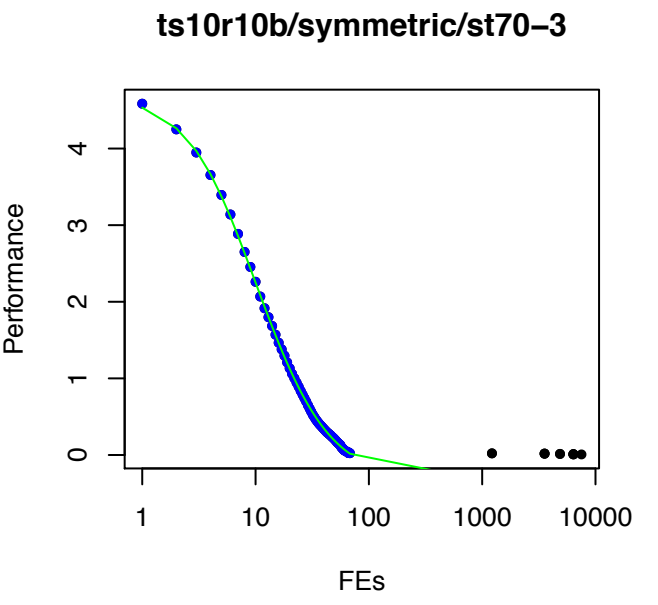
FEs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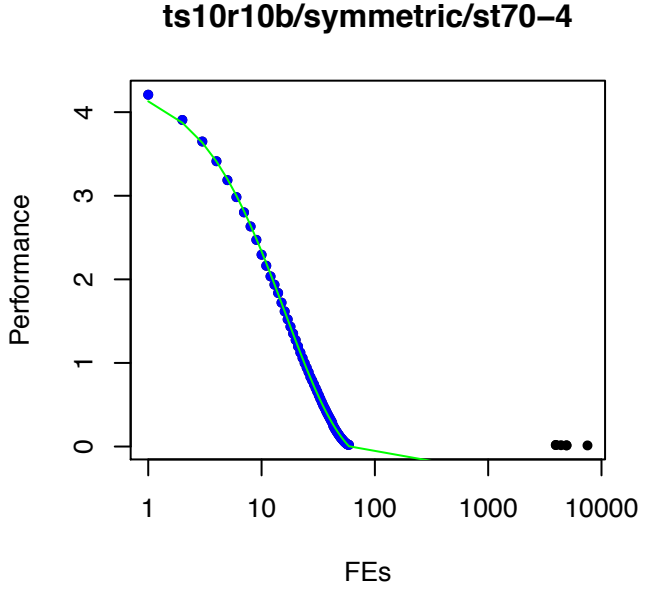
FEs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Performance
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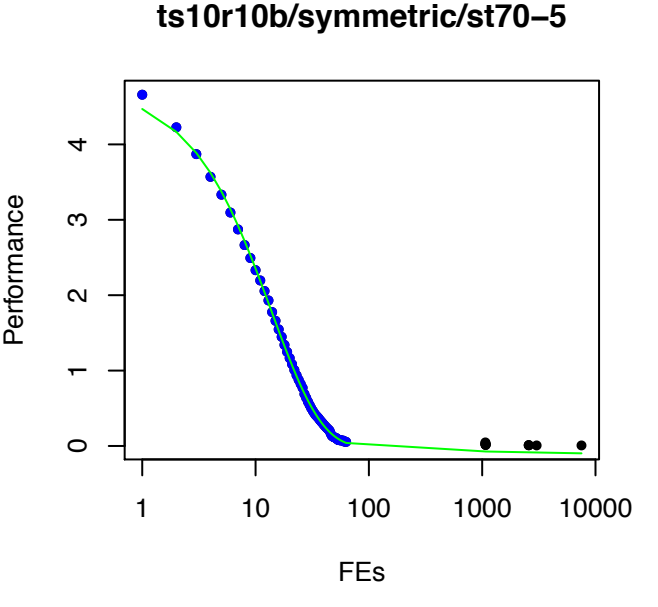
FEs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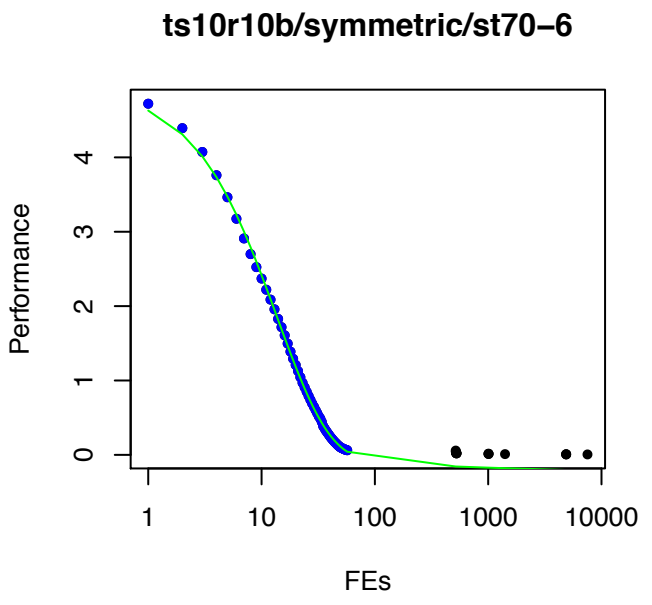
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Performance
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4
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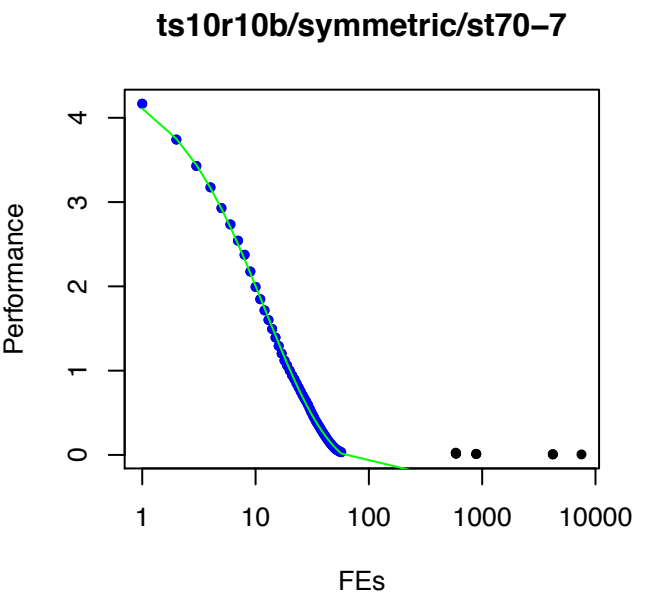
10000
FEs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Performance
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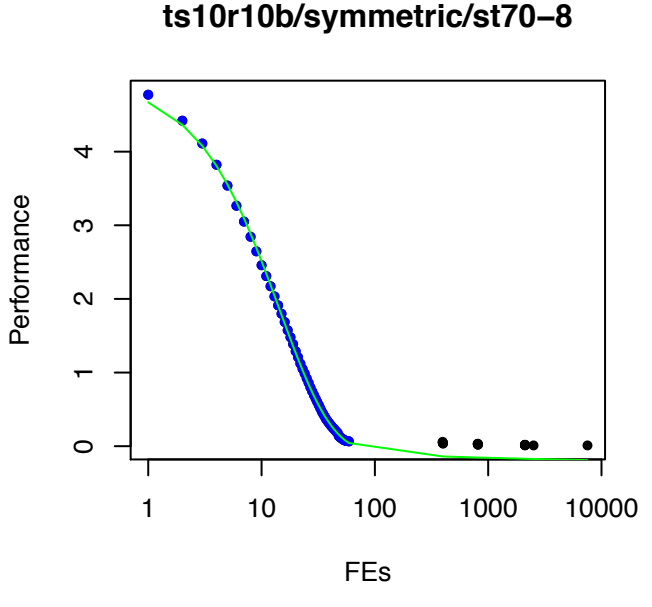
FEs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Performance
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4
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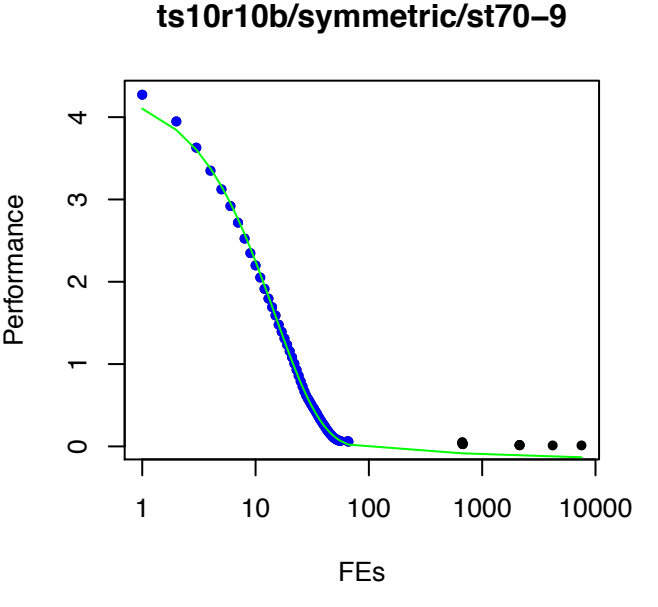
10000
FEs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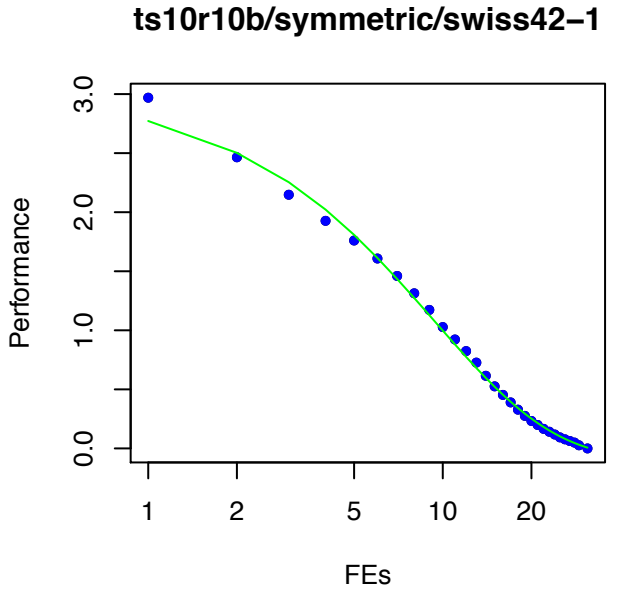
10000
FEs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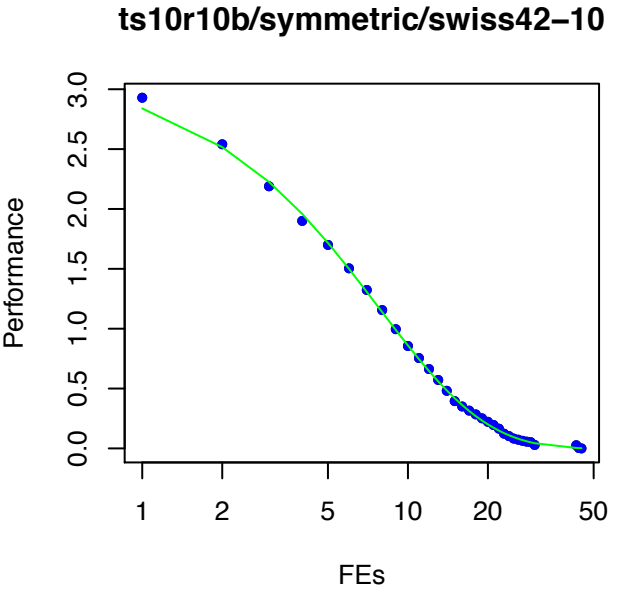
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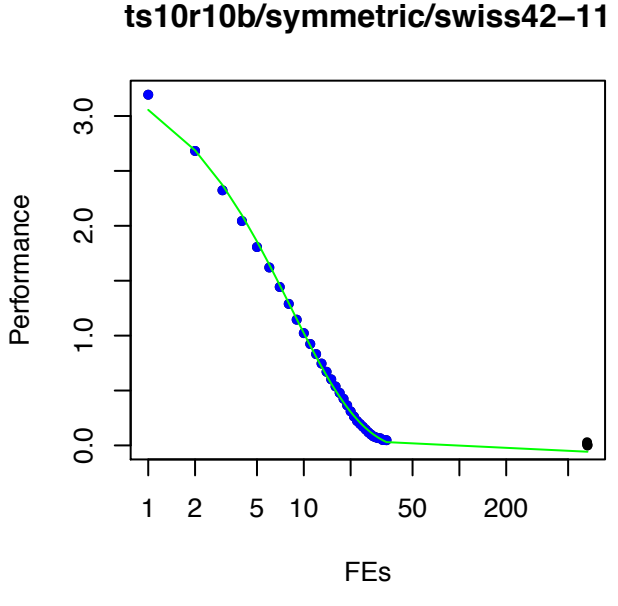
FEs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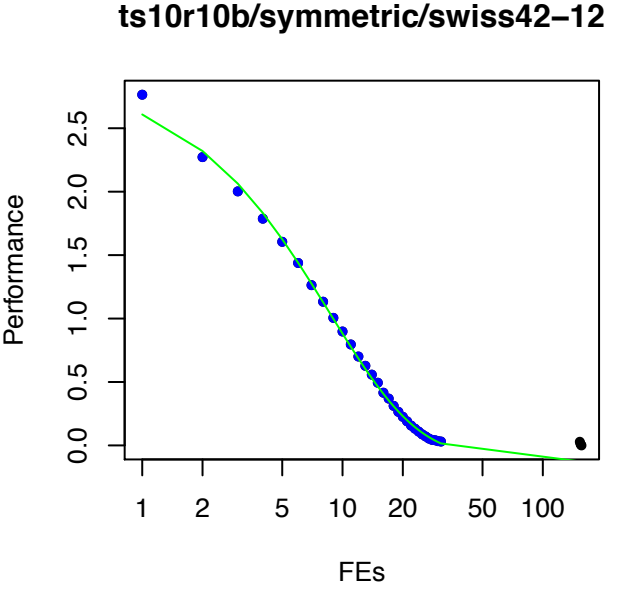
FEs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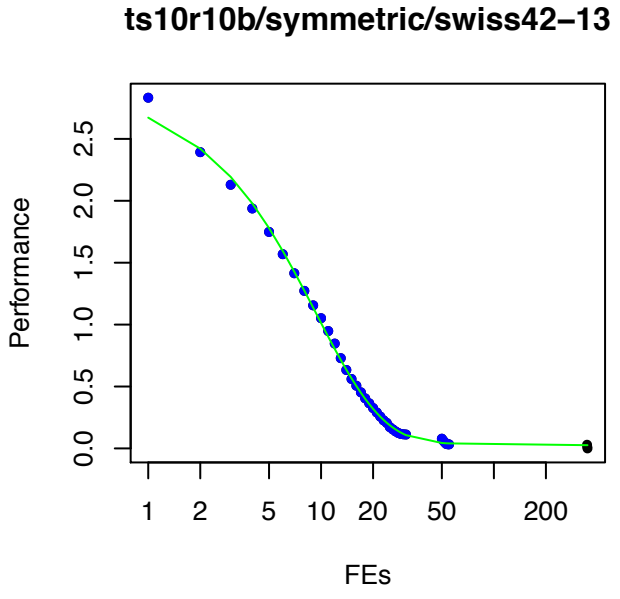
FEs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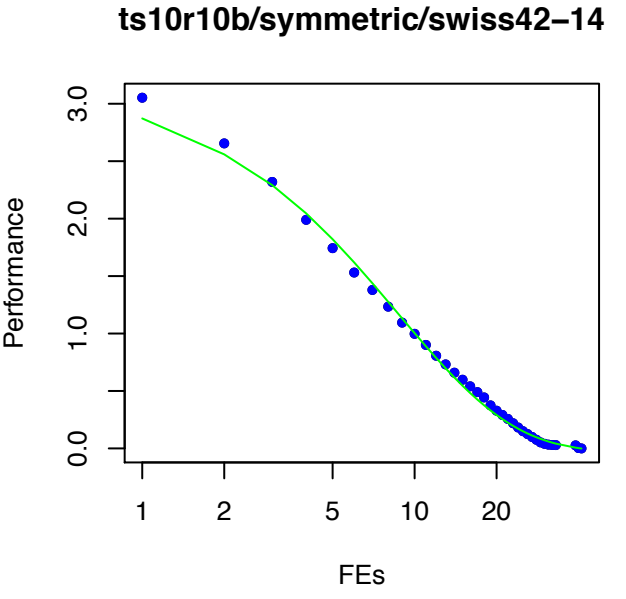
FEs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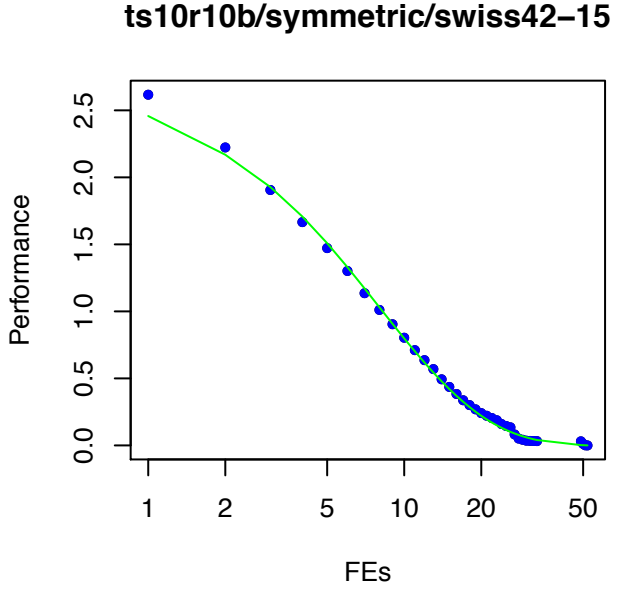
FEs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Performance
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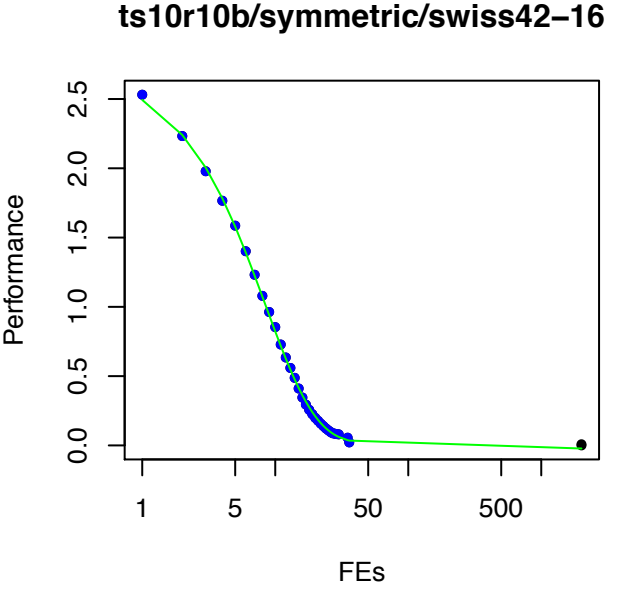
FEs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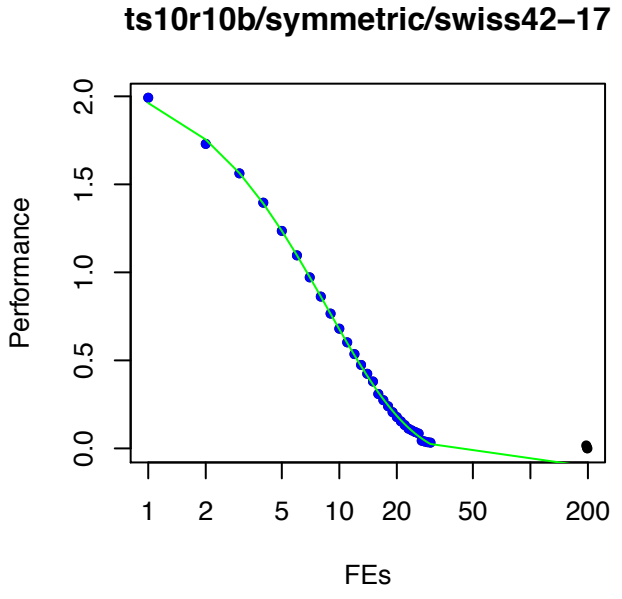
FEs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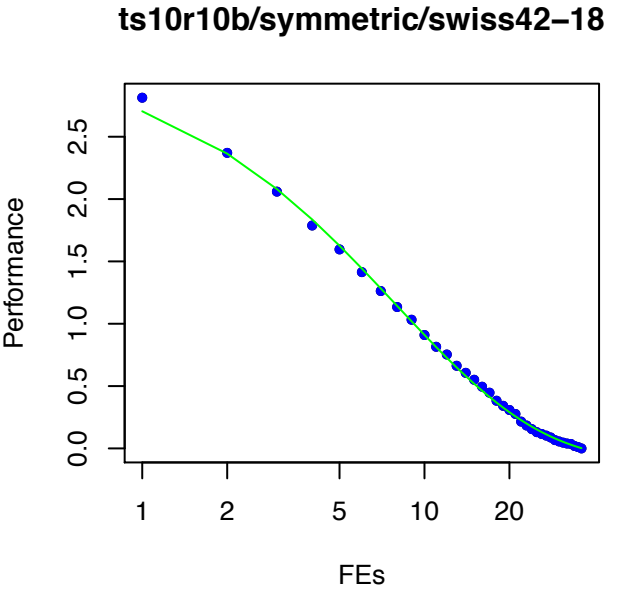
FEs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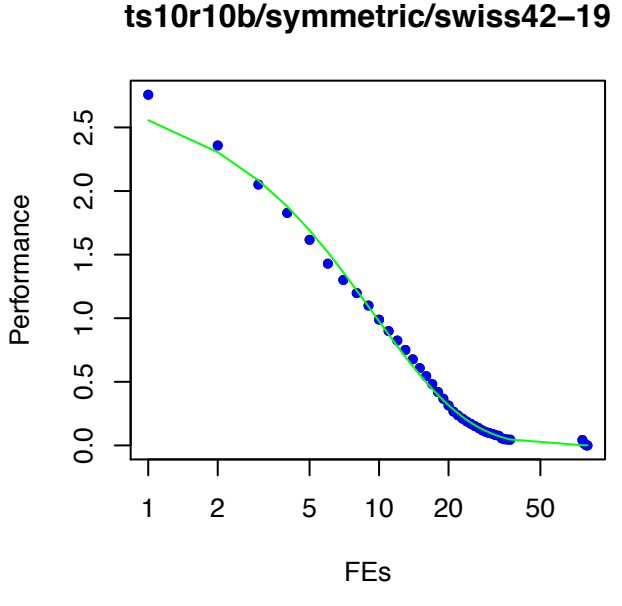
FEs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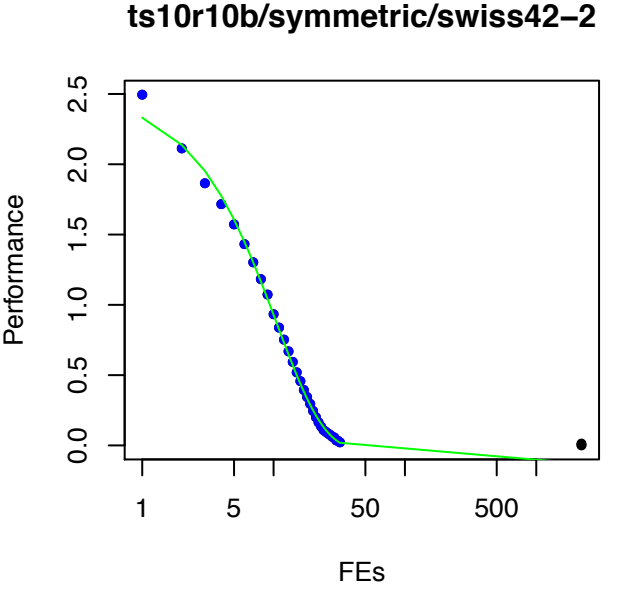
FEs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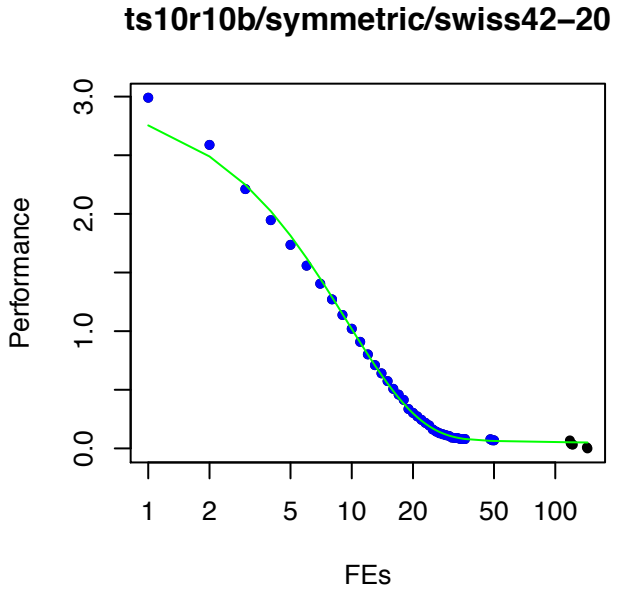
FEs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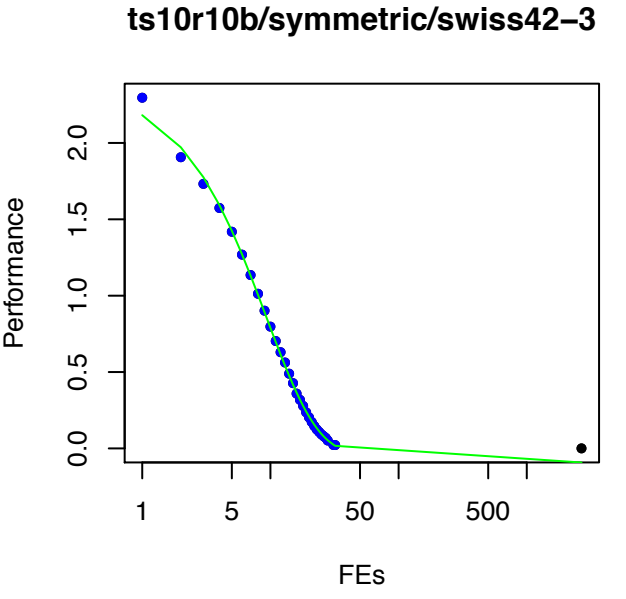
100
FEs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5
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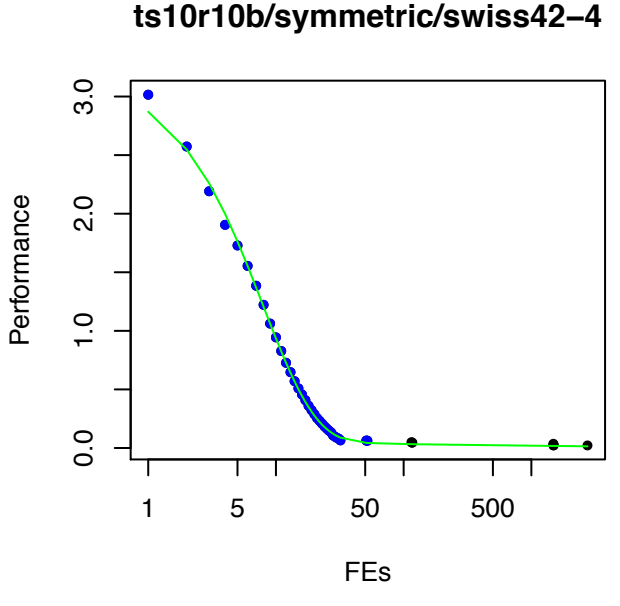
500
FEs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Performance
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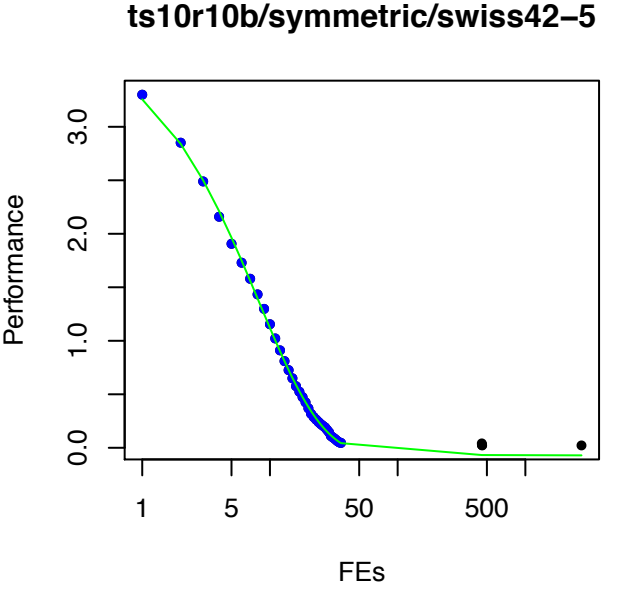
FEs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Performance
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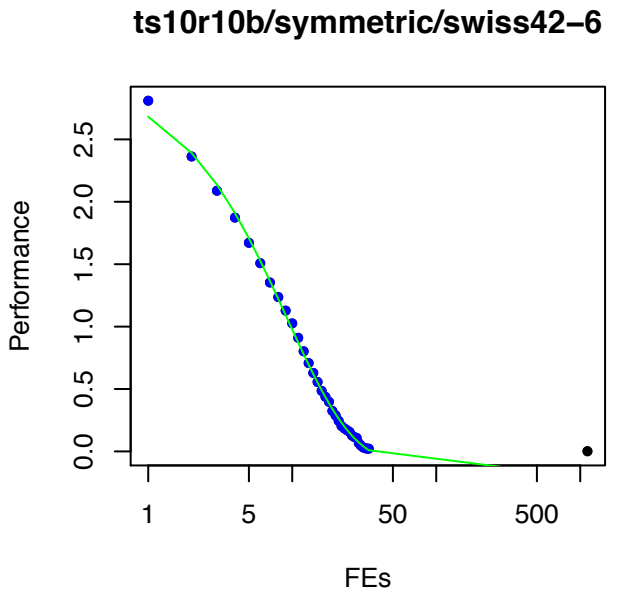
FEs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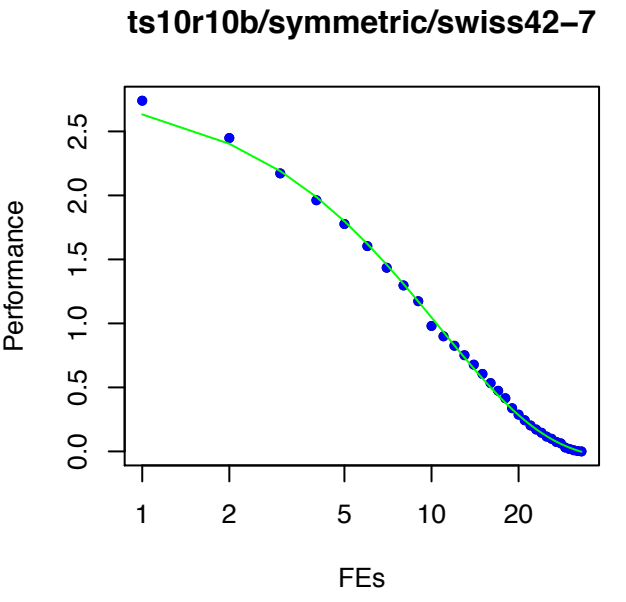
FEs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2
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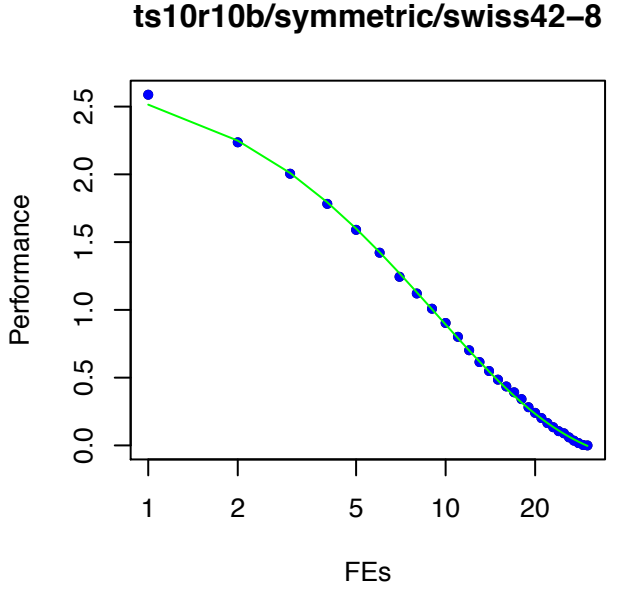
FEs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10
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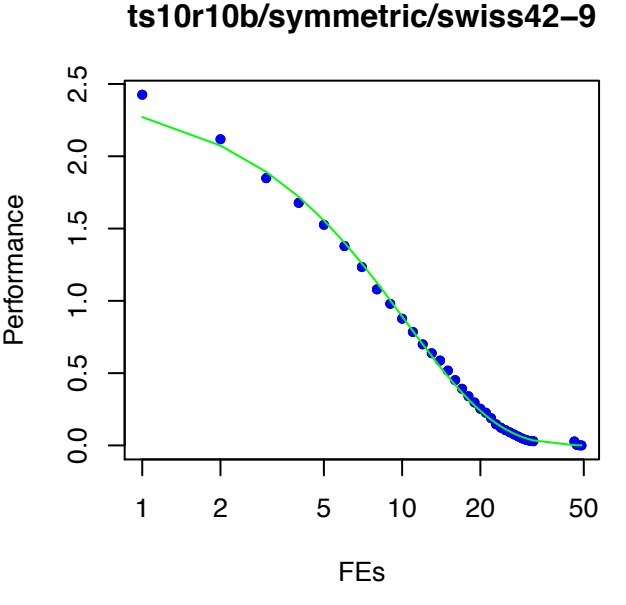
FEs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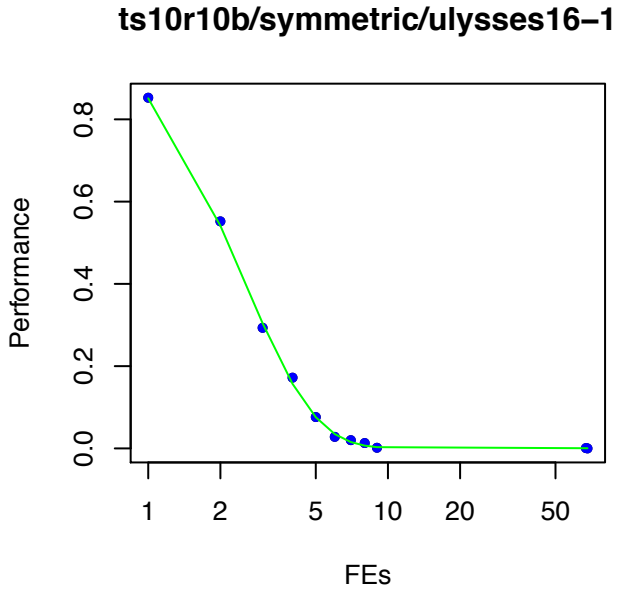
50
FEs


ts10r10b/symmetric/ulysses16−1
Performance
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20
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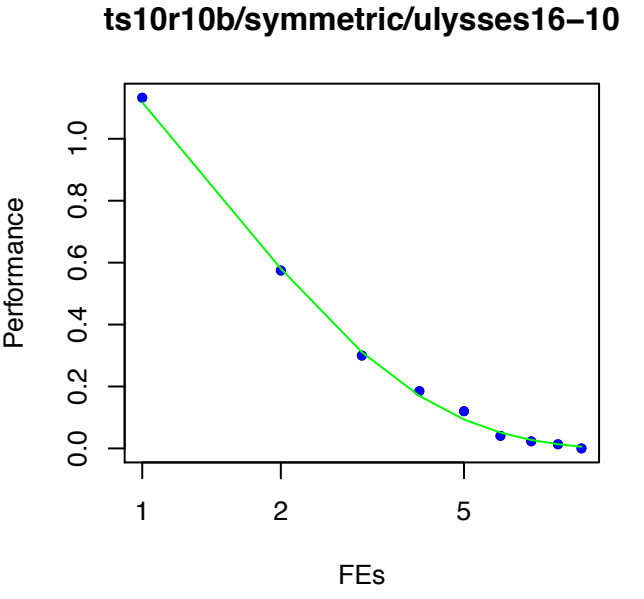
FEs


ts10r10b/symmetric/ulysses16−10
Performance
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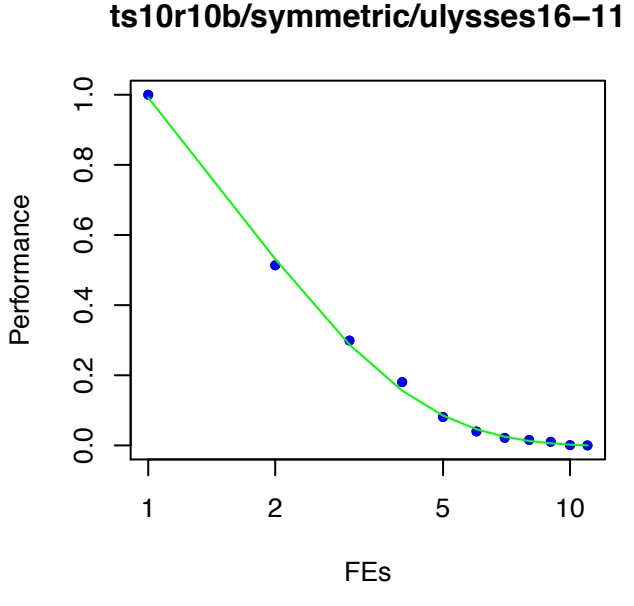
2
5
FEs


ts10r10b/symmetric/ulysses16−11
Performance
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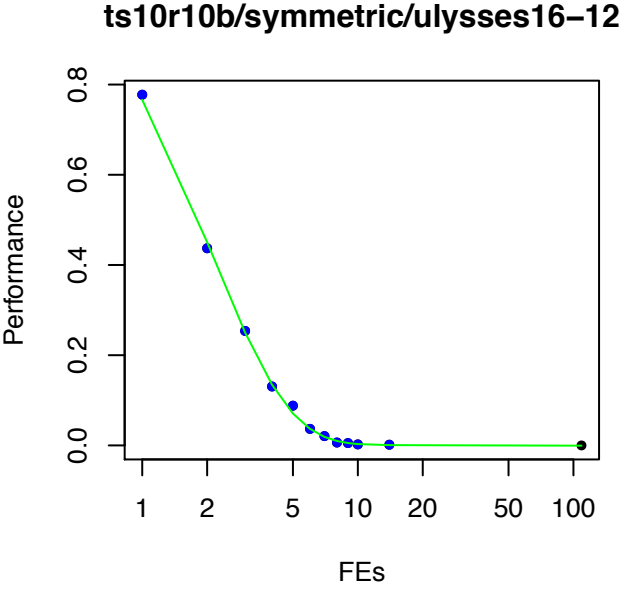
2
5
10
FEs


ts10r10b/symmetric/ulysses16−12
Performance
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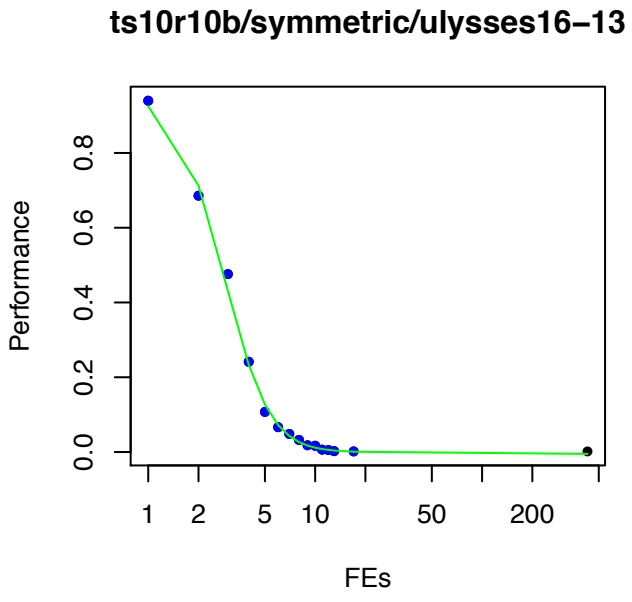
0.2
0.4
0.6
0.8
1
2
5
10
20
50
100
FEs


ts10r10b/symmetric/ulysses16−13
Performance
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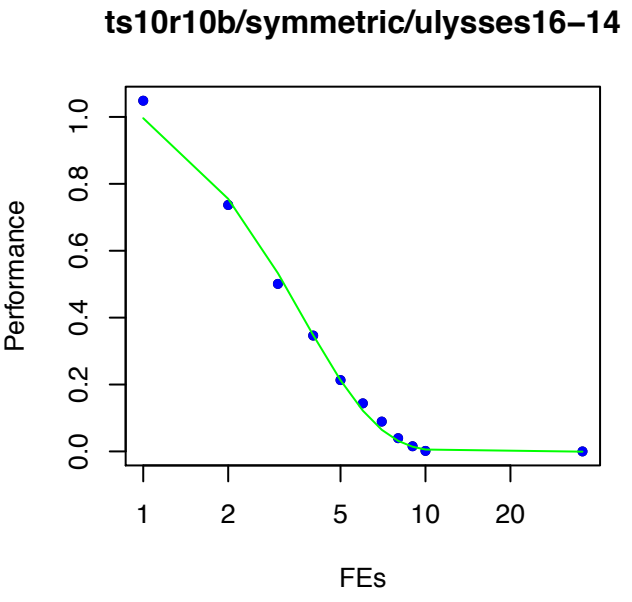
0.4
0.6
0.8
1
2
5
10
50
200
FEs


ts10r10b/symmetric/ulysses16−14
Performance
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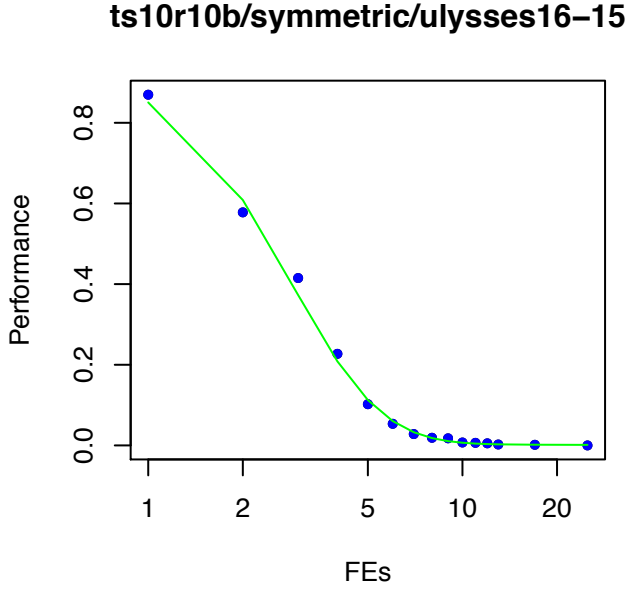
0.4
0.6
0.8
1.0
1
2
5
10
20
FEs


ts10r10b/symmetric/ulysses16−15
Performance
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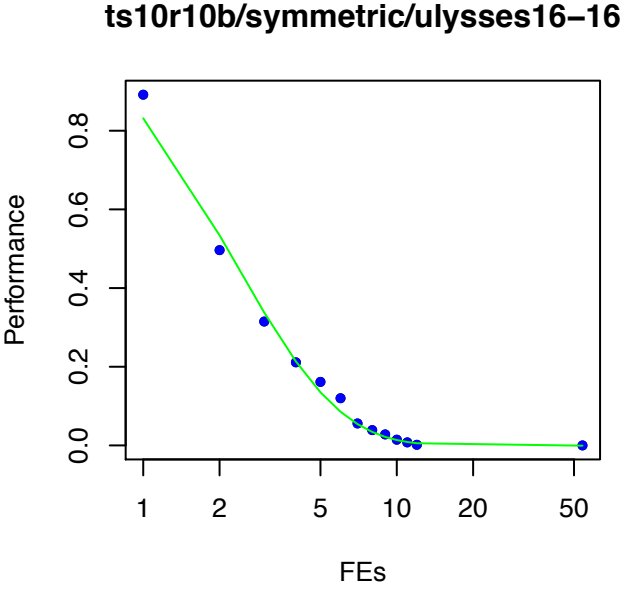
0.4
0.6
0.8
1
2
5
10
20
FEs


ts10r10b/symmetric/ulysses16−16
Performance
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0.4
0.6
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2
5
10
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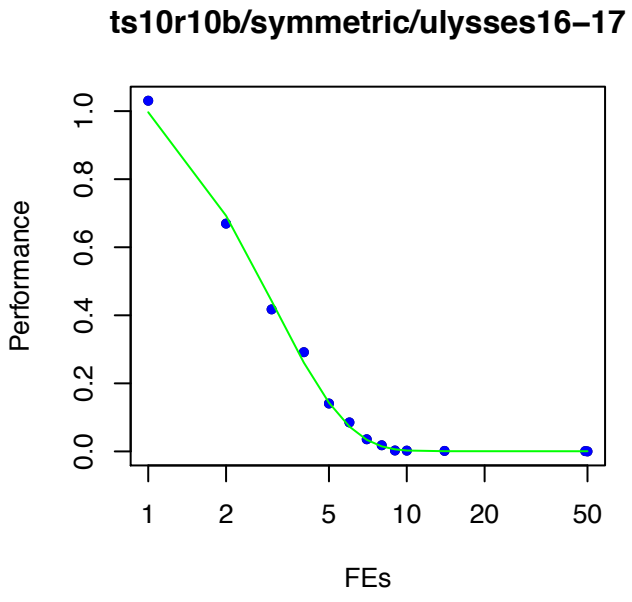
50
FEs


ts10r10b/symmetric/ulysses16−17
Performance
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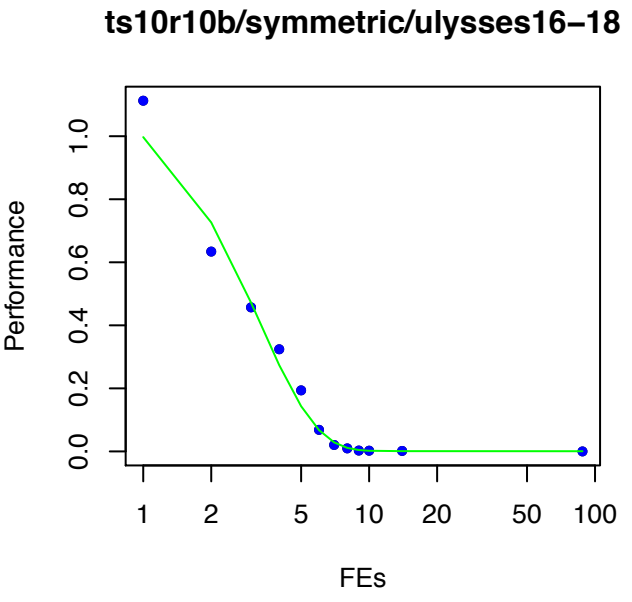
0.4
0.6
0.8
1.0
1
2
5
10
20
50
FEs


ts10r10b/symmetric/ulysses16−18
Performance
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0.4
0.6
0.8
1.0
1
2
5
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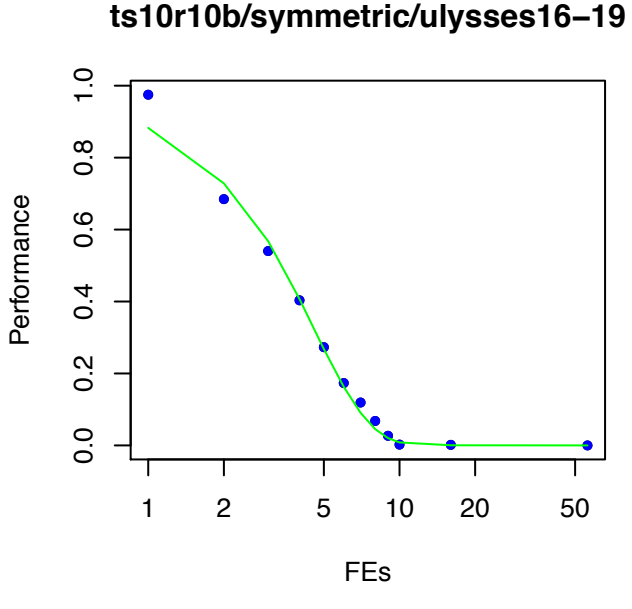
20
50
100
FEs


ts10r10b/symmetric/ulysses16−19
Performance
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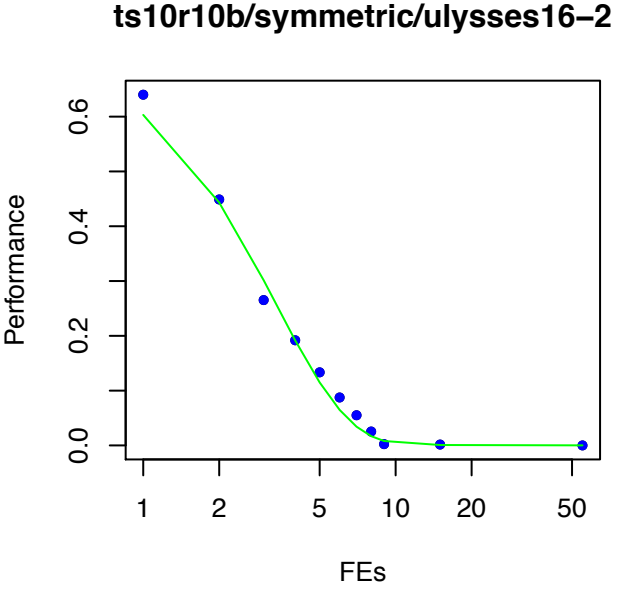
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
50
FEs


ts10r10b/symmetric/ulysses16−2
Performance
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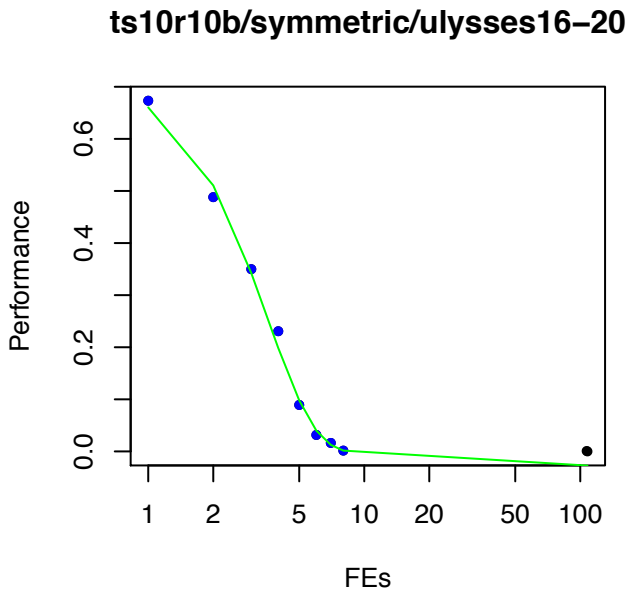
0.2
0.4
0.6
1
2
5
10
20
50
FEs


ts10r10b/symmetric/ulysses16−20
Performance
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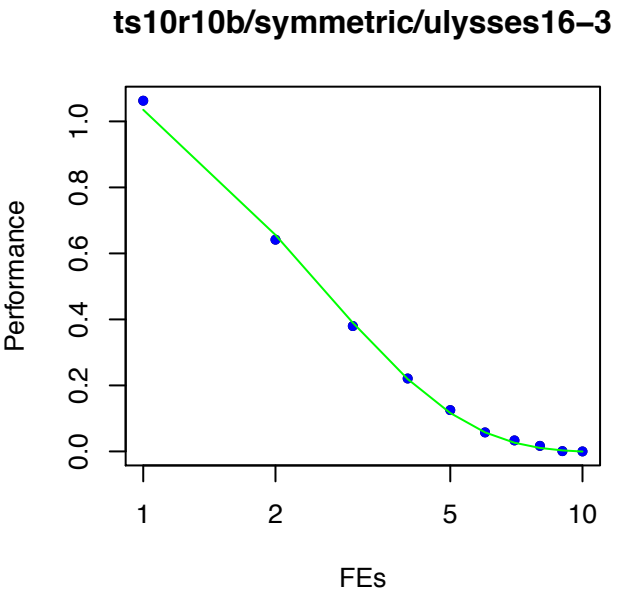
0.2
0.4
0.6
1
2
5
10
20
50
100
FEs


ts10r10b/symmetric/ulysses16−3
Performance
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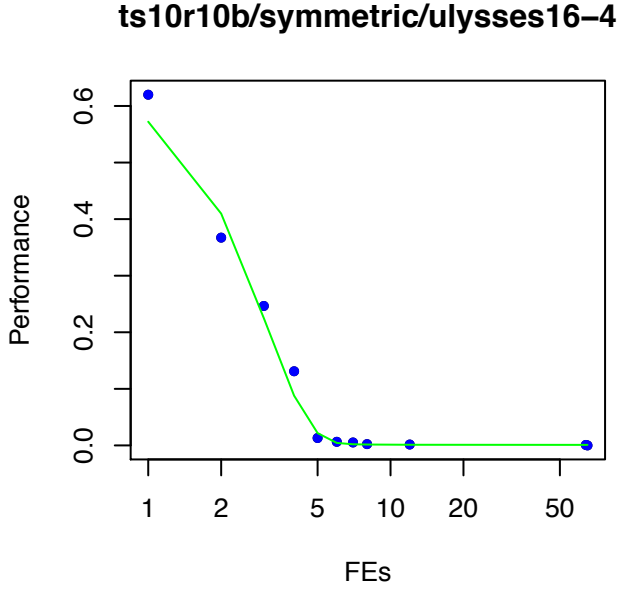
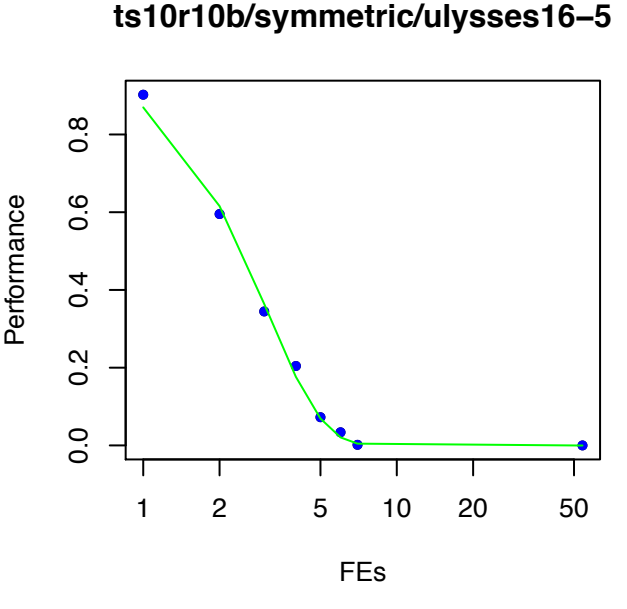
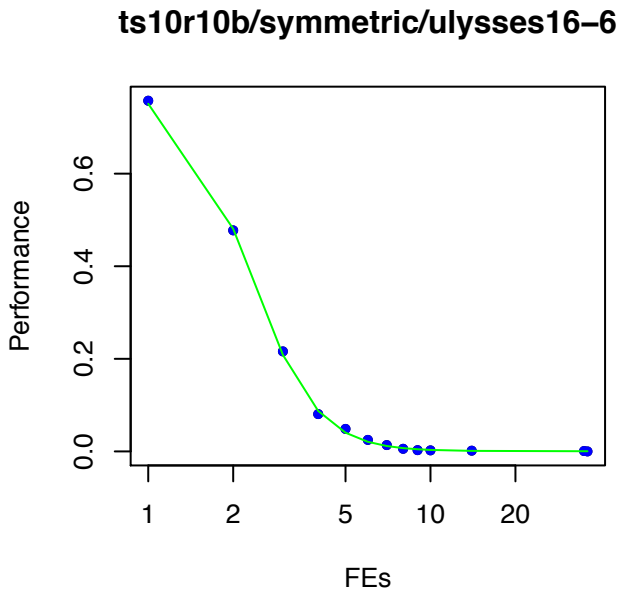
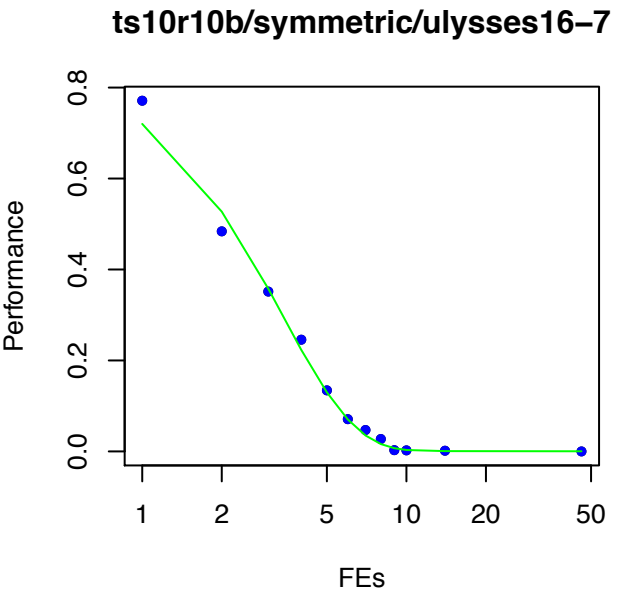
0.2
0.4
0.6
0.8
1.0
1
2
5
10
FEs


ts10r10b/symmetric/ulysses16−4
Performance
0.0
0.2
0.4
0.6
1
2
5
10
20
50
FEs


ts10r10b/symmetric/ulysses16−5
Performance
0.0
0.2
0.4
0.6
0.8
1
2
5
10
20
50
FEs


ts10r10b/symmetric/ulysses16−6
Performance
0.0
0.2
0.4
0.6
1
2
5
10
20
FEs


ts10r10b/symmetric/ulysses16−7
Performance
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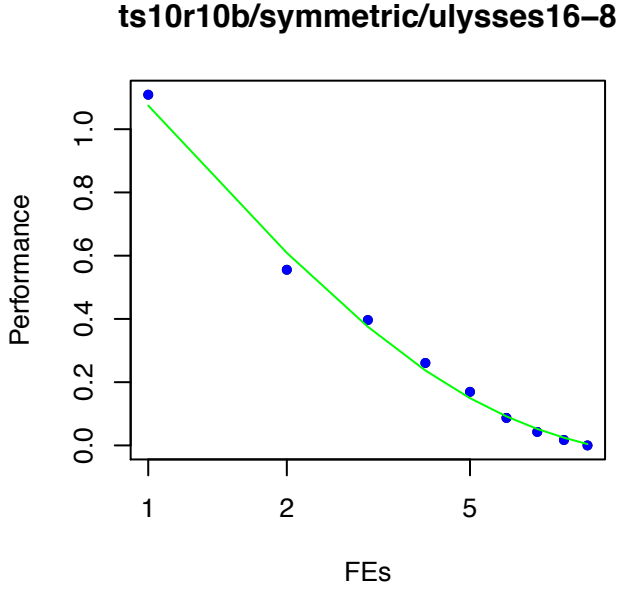
0.2
0.4
0.6
0.8
1
2
5
10
20
50
FEs


ts10r10b/symmetric/ulysses16−8
Performance
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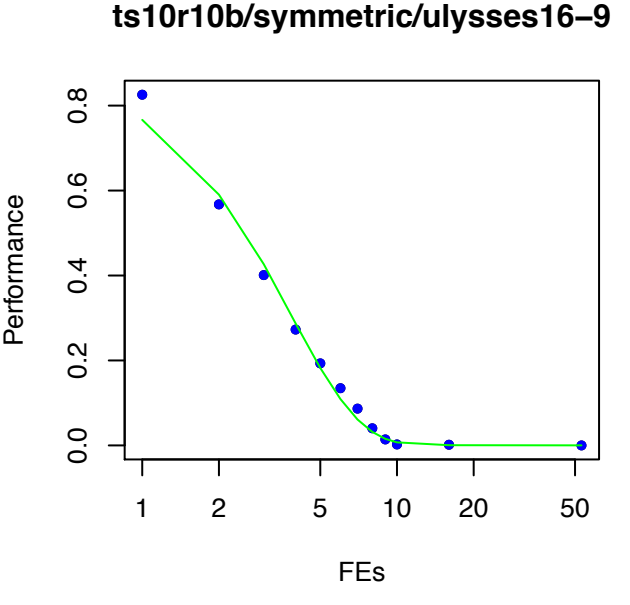
0.2
0.4
0.6
0.8
1.0
1
2
5
FEs


ts10r10b/symmetric/ulysses16−9
Performance
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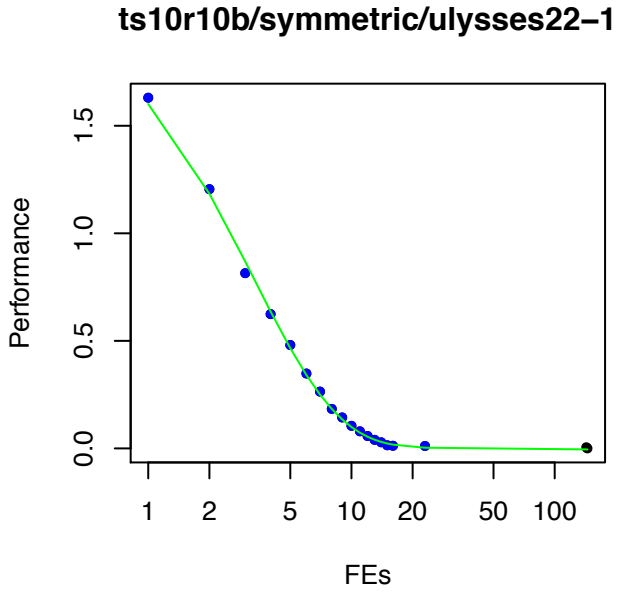
0.2
0.4
0.6
0.8
1
2
5
10
20
50
FEs


ts10r10b/symmetric/ulysses22−1
Performance
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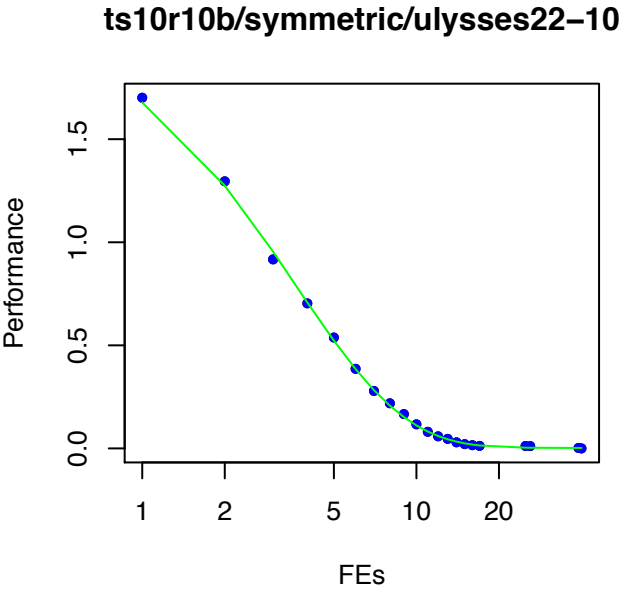
0.5
1.0
1.5
1
2
5
10
20
50
100
FEs


ts10r10b/symmetric/ulysses22−10
Performance
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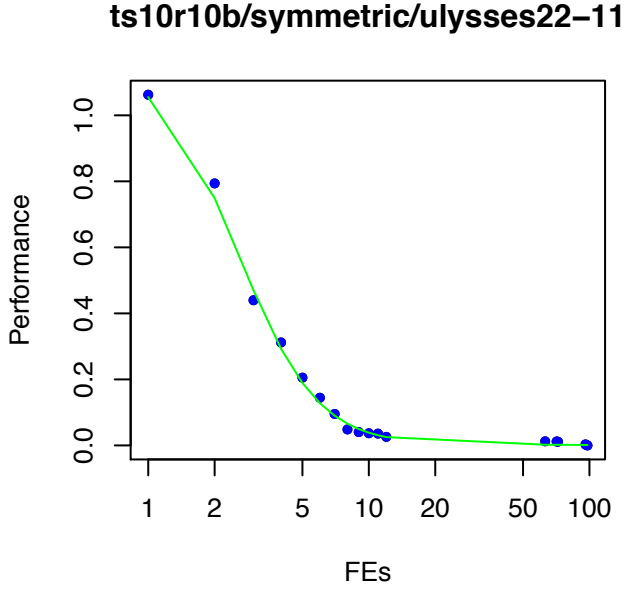
0.5
1.0
1.5
1
2
5
10
20
FEs


ts10r10b/symmetric/ulysses22−11
Performance
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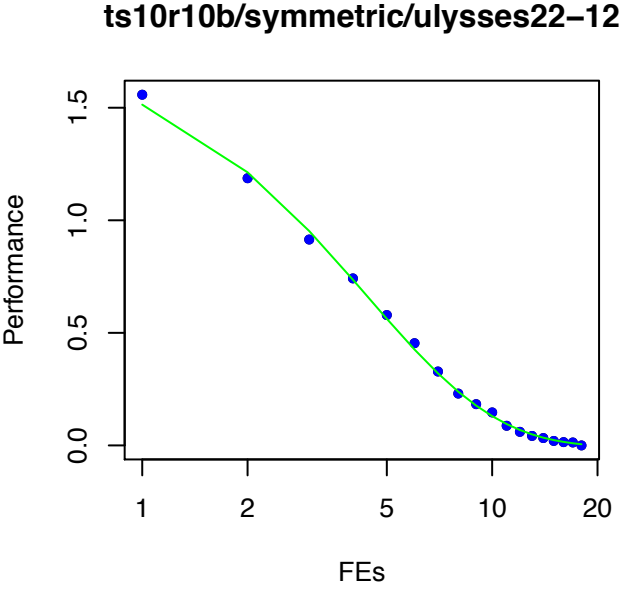
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
50
100
FEs


ts10r10b/symmetric/ulysses22−12
Performance
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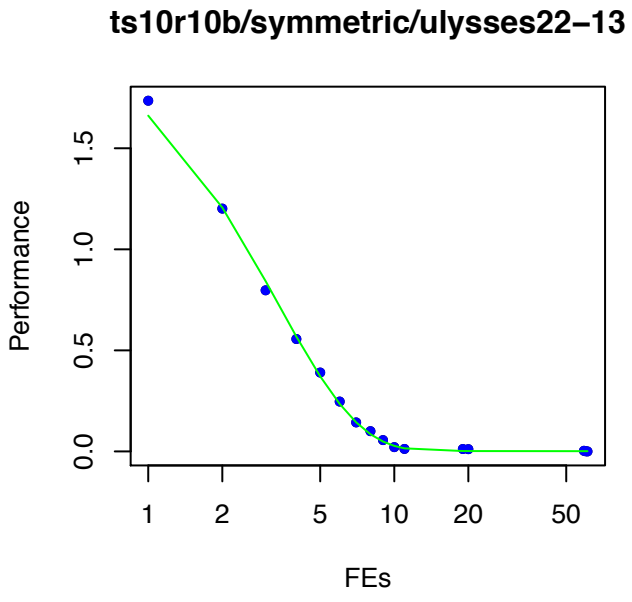
1.5
1
2
5
10
20
FEs


ts10r10b/symmetric/ulysses22−13
Performance
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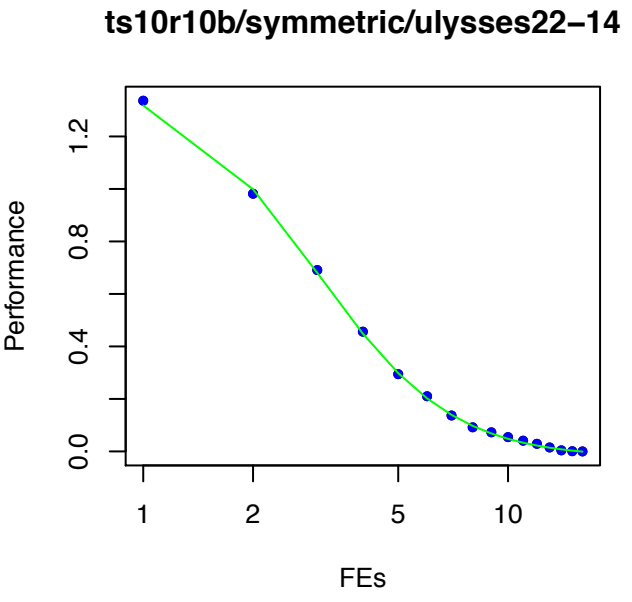
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts10r10b/symmetric/ulysses22−14
Performance
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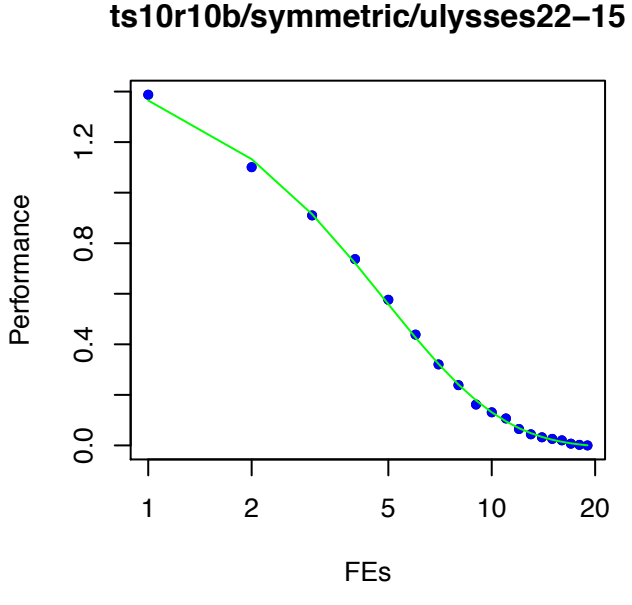
0.4
0.8
1.2
1
2
5
10
FEs


ts10r10b/symmetric/ulysses22−15
Performance
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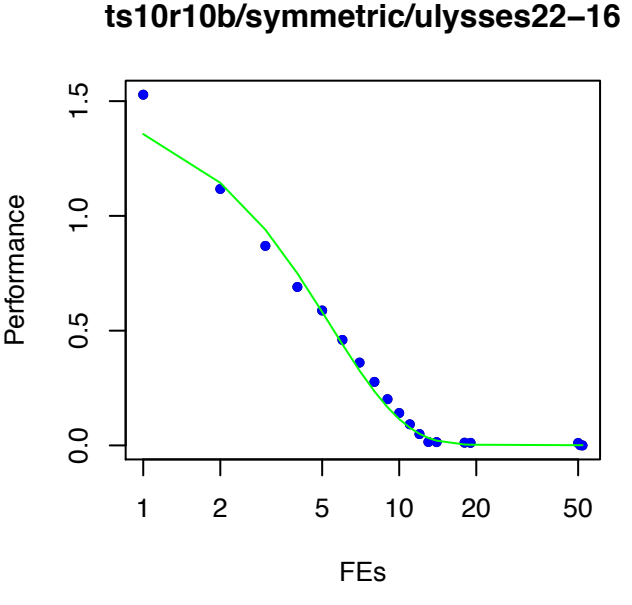
0.8
1.2
1
2
5
10
20
FEs


ts10r10b/symmetric/ulysses22−16
Performance
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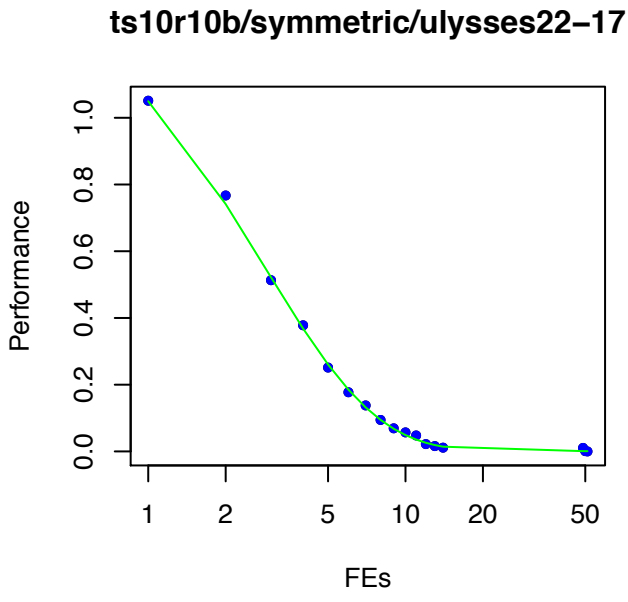
1
2
5
10
20
50
FEs


ts10r10b/symmetric/ulysses22−17
Performance
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0.6
0.8
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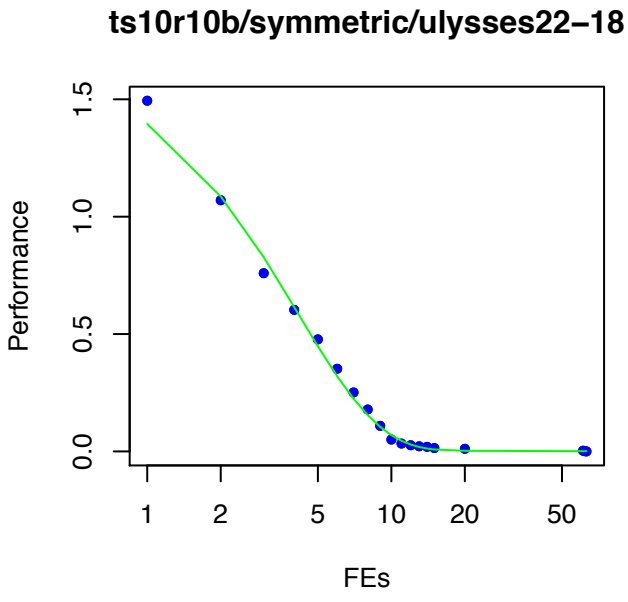
2
5
10
20
50
FEs


ts10r10b/symmetric/ulysses22−18
Performance
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2
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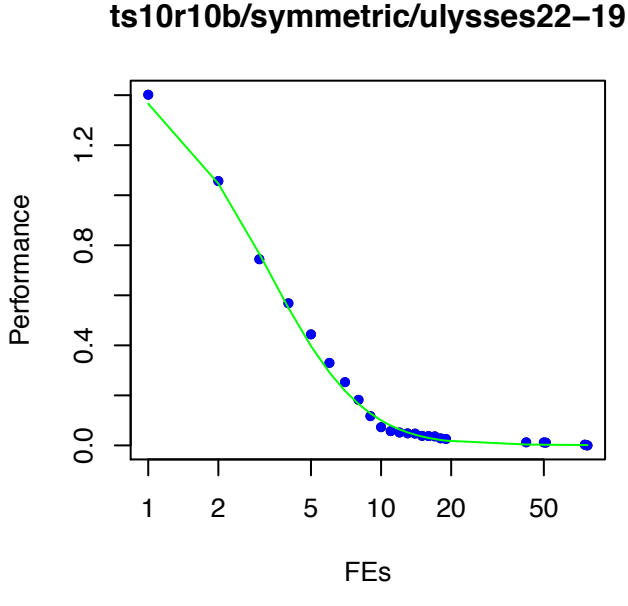
10
20
50
FEs


ts10r10b/symmetric/ulysses22−19
Performance
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2
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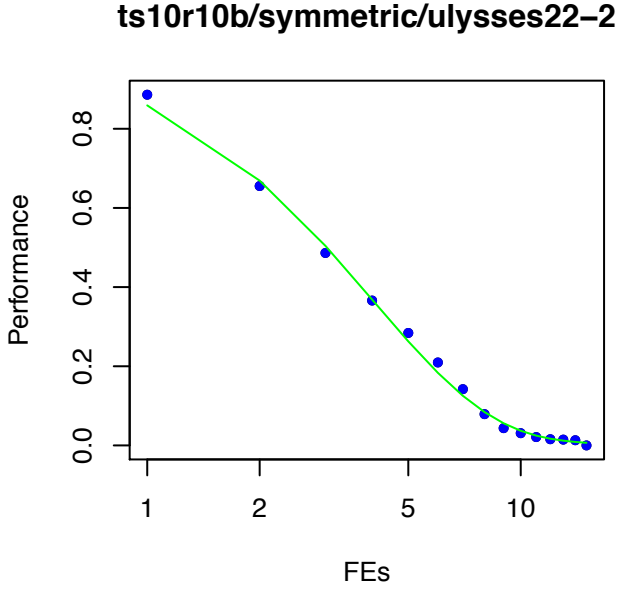
10
20
50
FEs


ts10r10b/symmetric/ulysses22−2
Performance
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0.8
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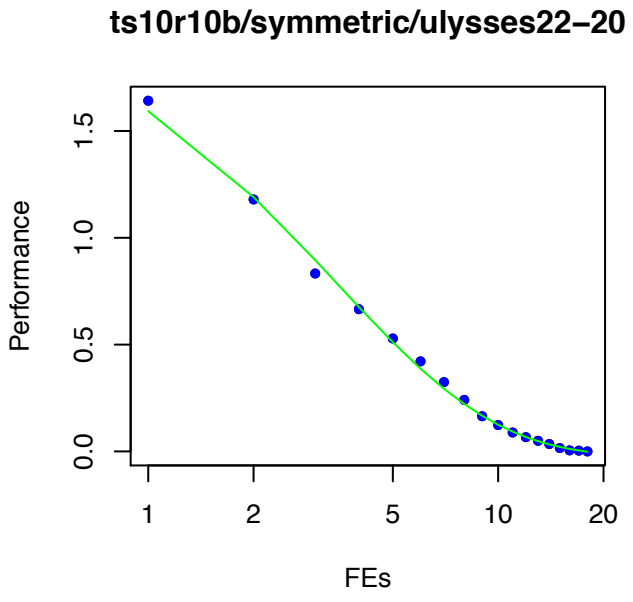
2
5
10
FEs


ts10r10b/symmetric/ulysses22−20
Performance
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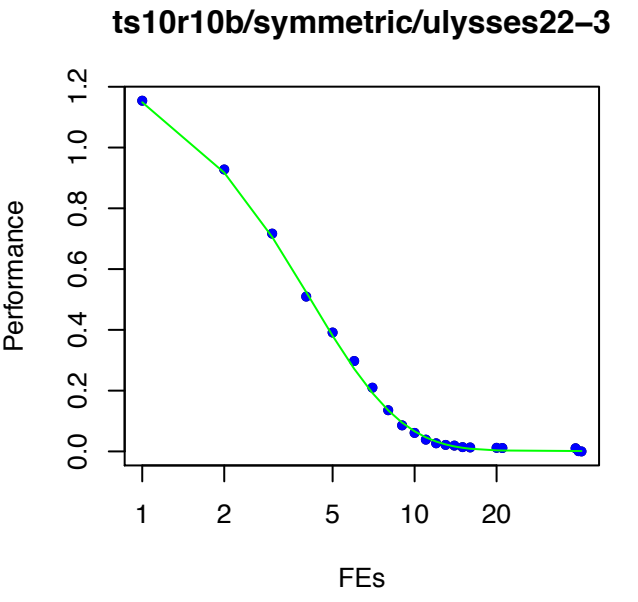
1.5
1
2
5
10
20
FEs


ts10r10b/symmetric/ulysses22−3
Performance
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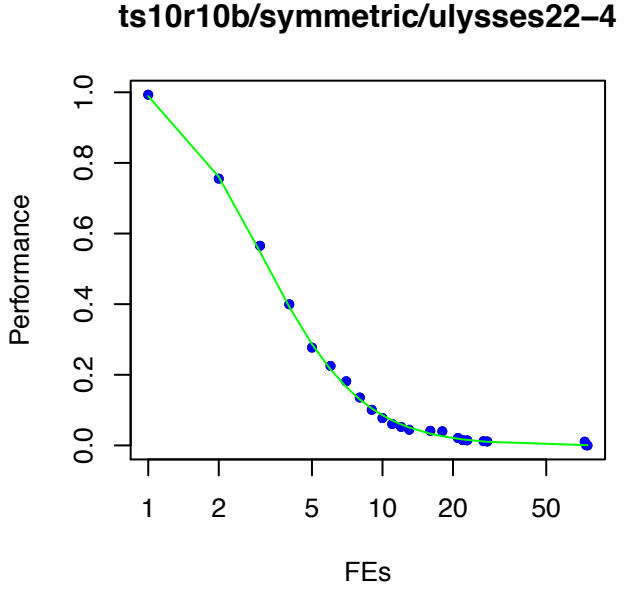
0.4
0.6
0.8
1.0
1.2
1
2
5
10
20
FEs


ts10r10b/symmetric/ulysses22−4
Performance
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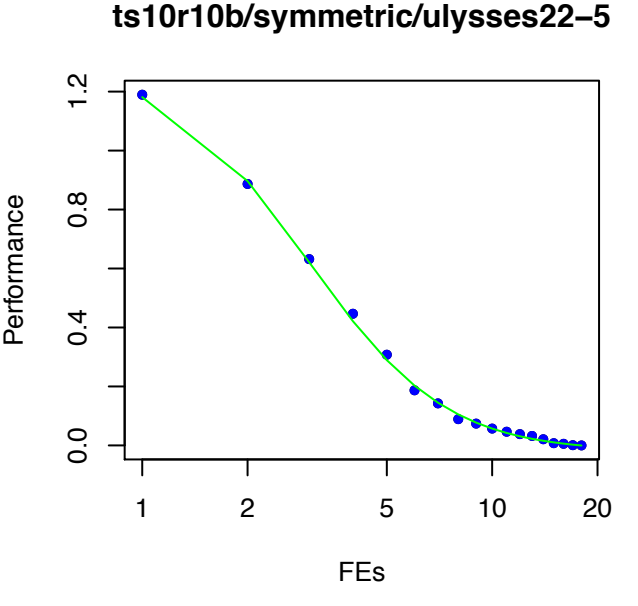
0.4
0.6
0.8
1.0
1
2
5
10
20
50
FEs


ts10r10b/symmetric/ulysses22−5
Performance
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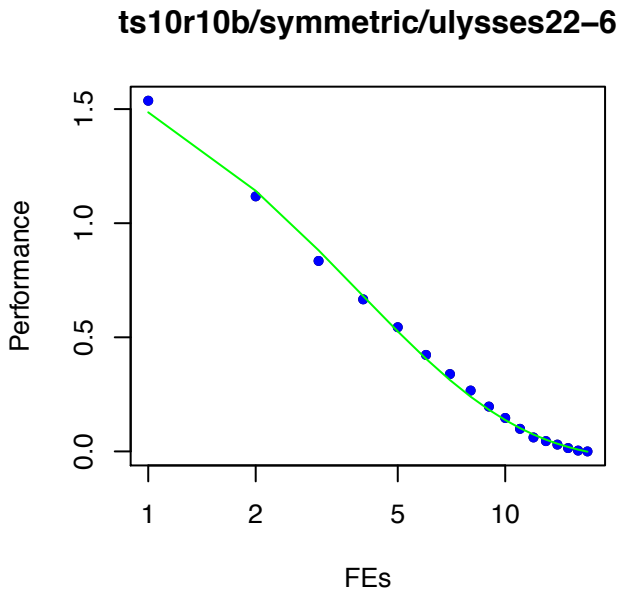
0.8
1.2
1
2
5
10
20
FEs


ts10r10b/symmetric/ulysses22−6
Performance
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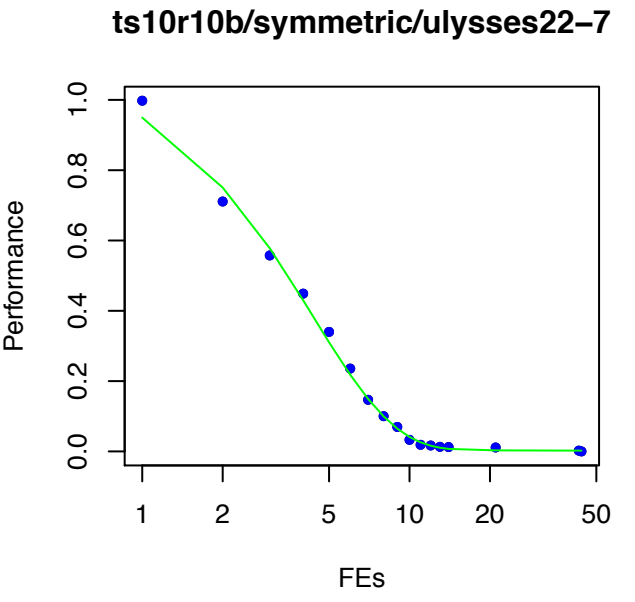
1.5
1
2
5
10
FEs


ts10r10b/symmetric/ulysses22−7
Performance
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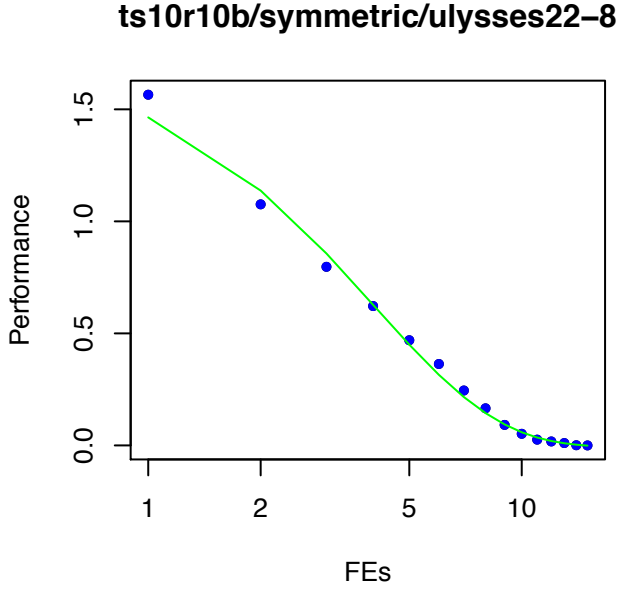
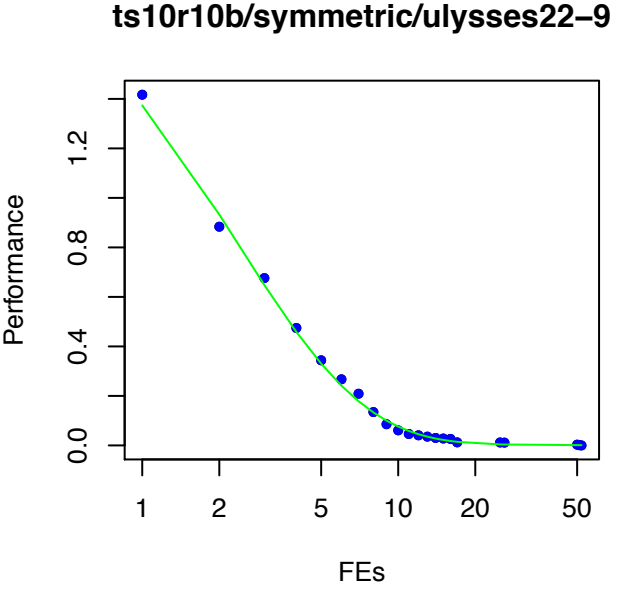
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
50
FEs


ts10r10b/symmetric/ulysses22−8
Performance
0.0
0.5
1.0
1.5
1
2
5
10
FEs


ts10r10b/symmetric/ulysses22−9
Performance
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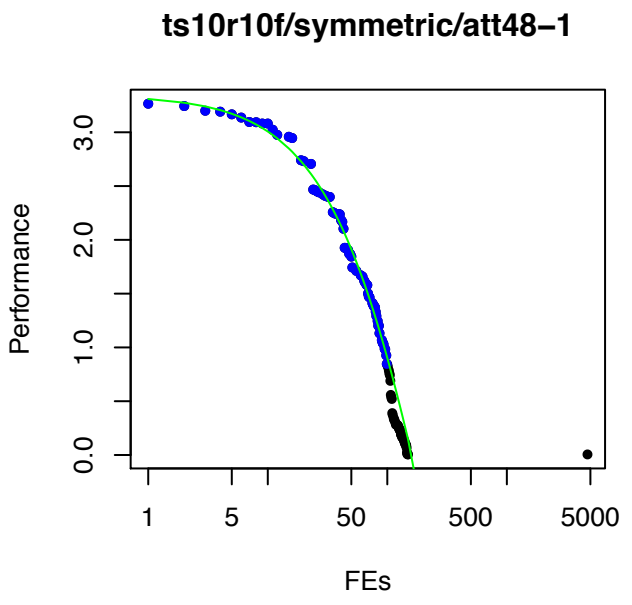
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts10r10f/symmetric/att48−1
Performance
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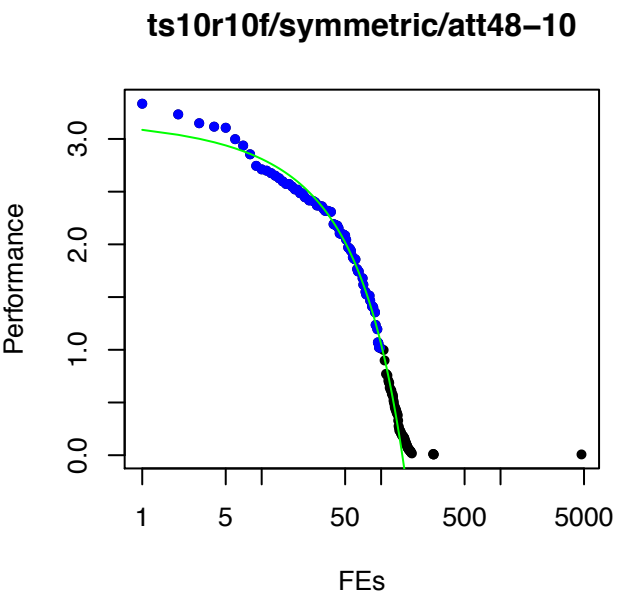
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts10r10f/symmetric/att48−10
Performance
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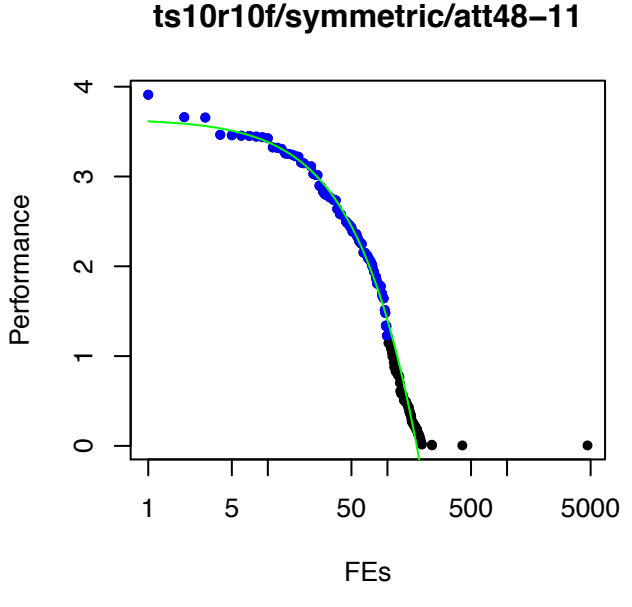
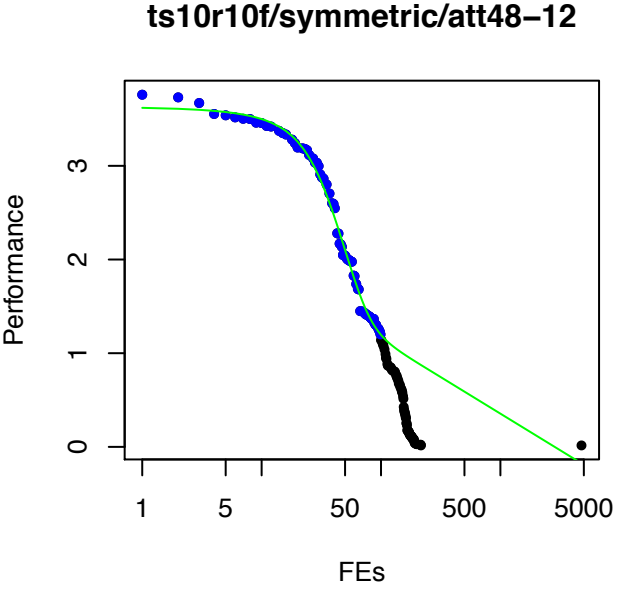
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts10r10f/symmetric/att48−11
Performance
0
1
2
3
4
1
5
50
500
5000
FEs


ts10r10f/symmetric/att48−12
Performance
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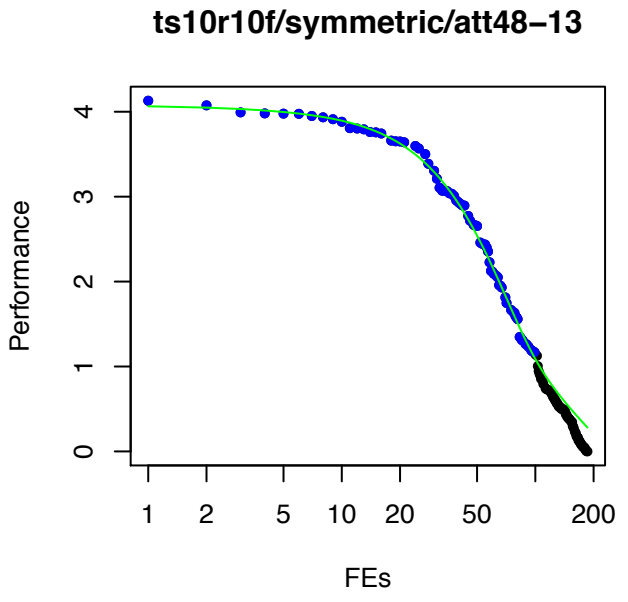
1
2
3
1
5
50
500
5000
FEs


ts10r10f/symmetric/att48−13
Performance
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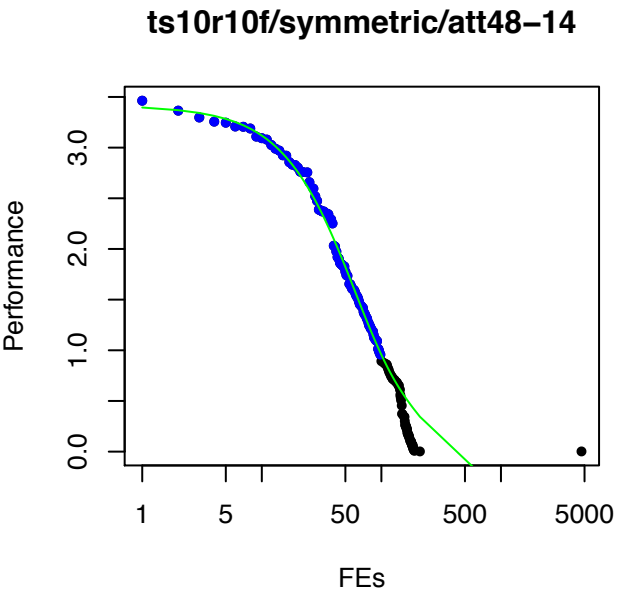
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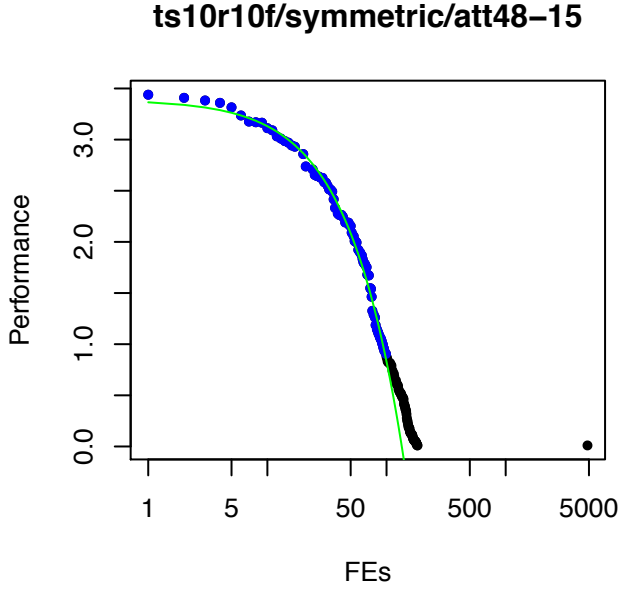
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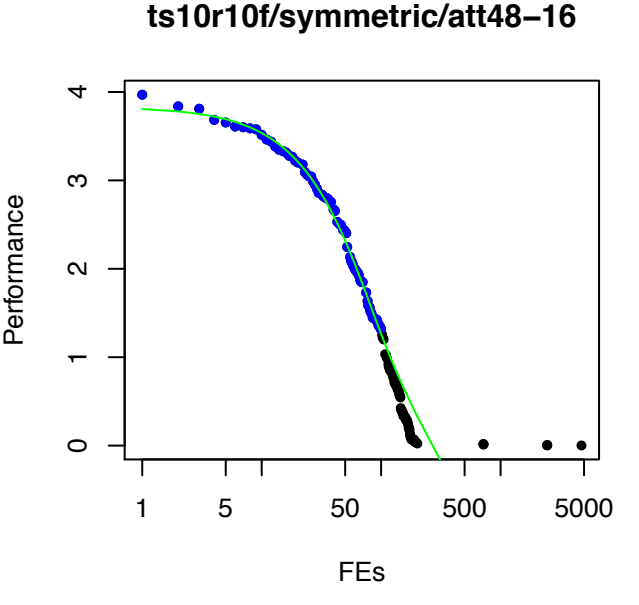
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Performance
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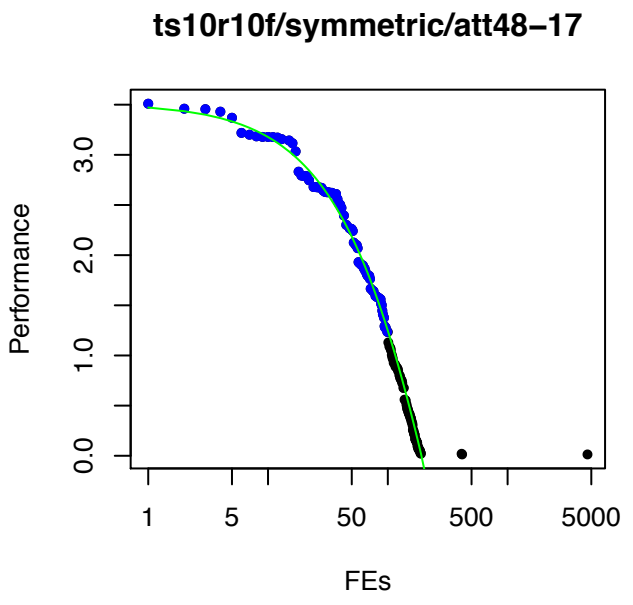
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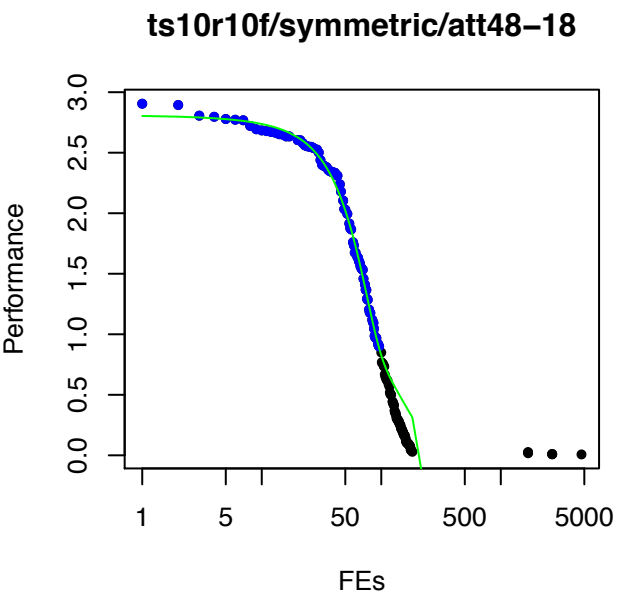
ts10r10f/symmetric/att48−18
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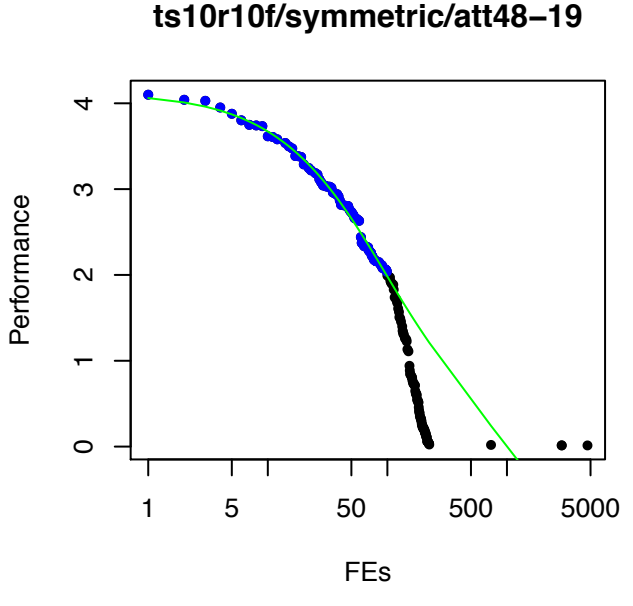
FEs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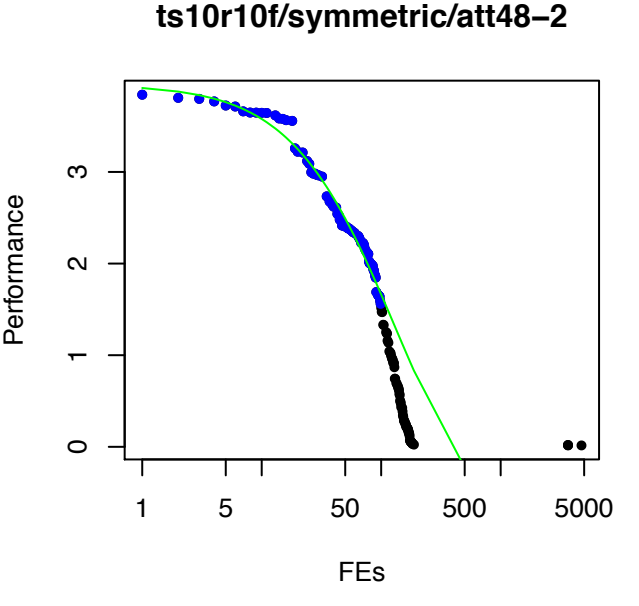
FEs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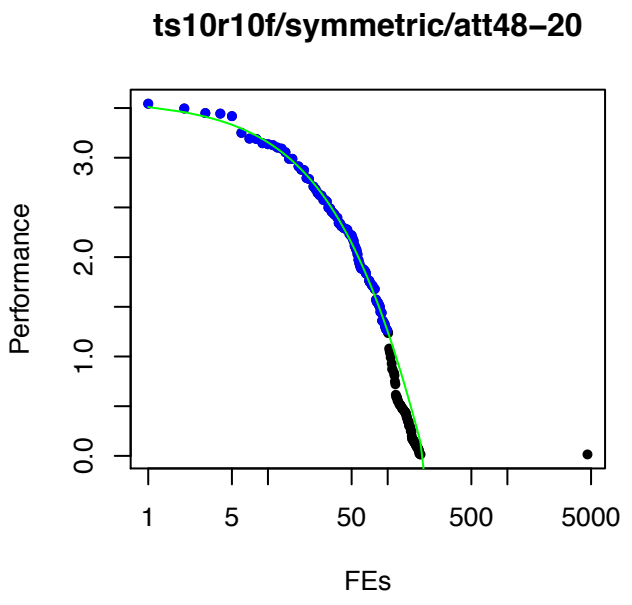
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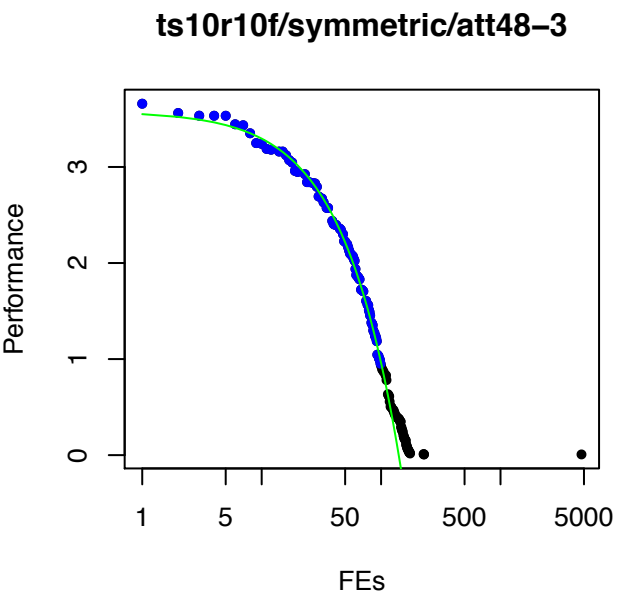
FEs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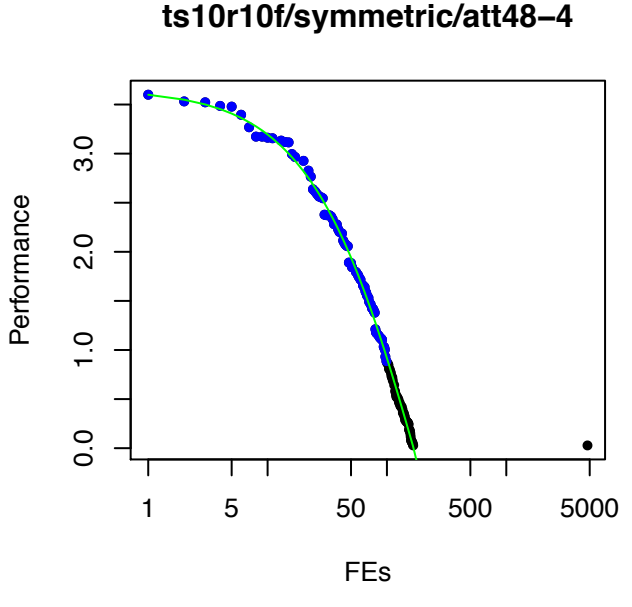
FEs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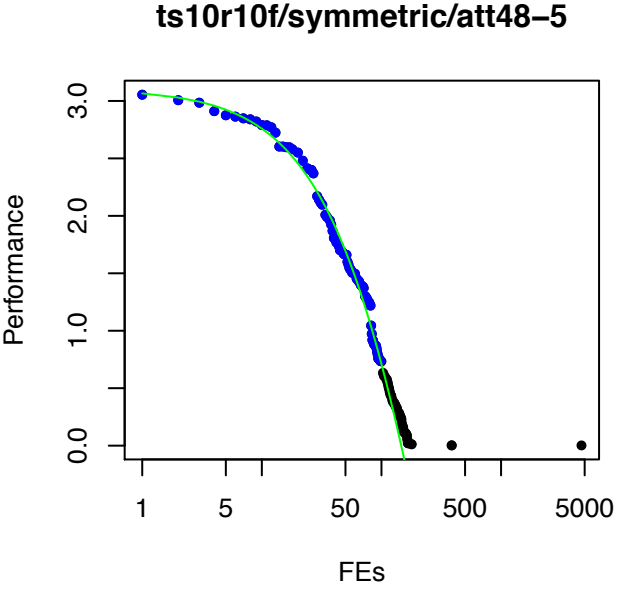
FEs


ts10r10f/symmetric/att48−5
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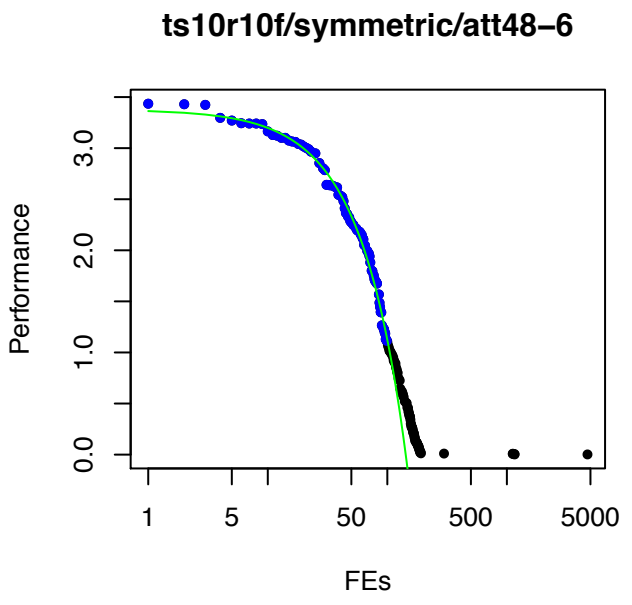
FEs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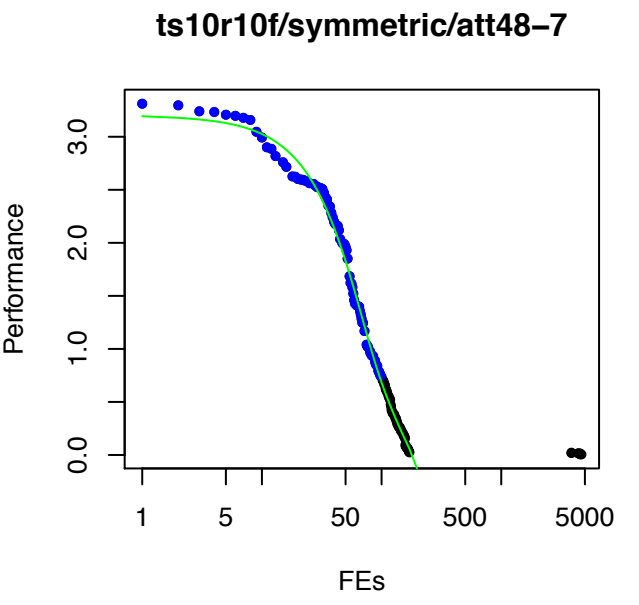
FEs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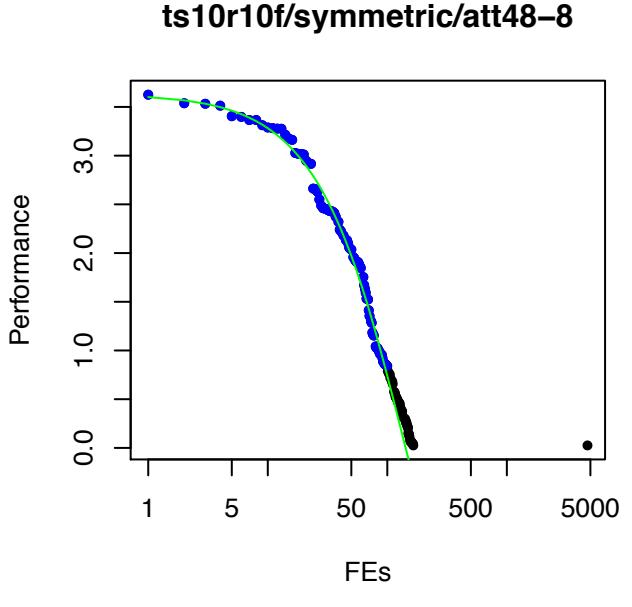
FEs


ts10r10f/symmetric/att48−8
Performance
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3.0
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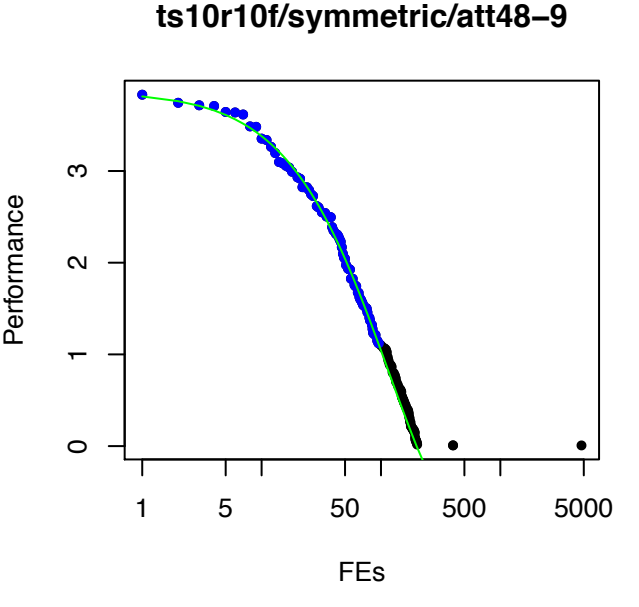
FEs


ts10r10f/symmetric/att48−9
Performance
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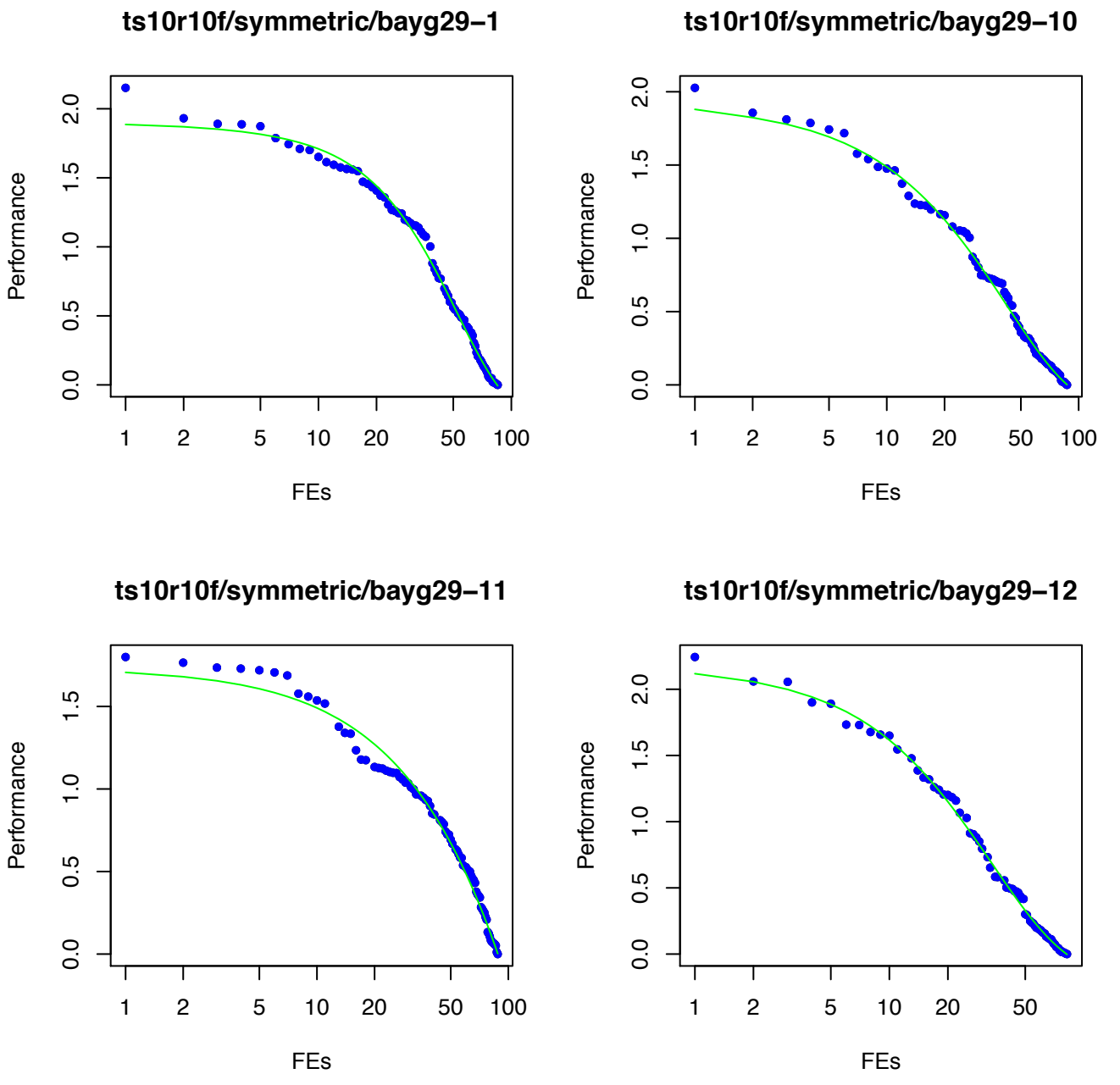
FEs


ts10r10f/symmetric/bayg29−1
ts10r10f/symmetric/bayg29−10
ts10r10f/symmetric/bayg29−11
ts10r10f/symmetric/bayg29−12
Performance
FEs
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2.0
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2
5
10
20
50
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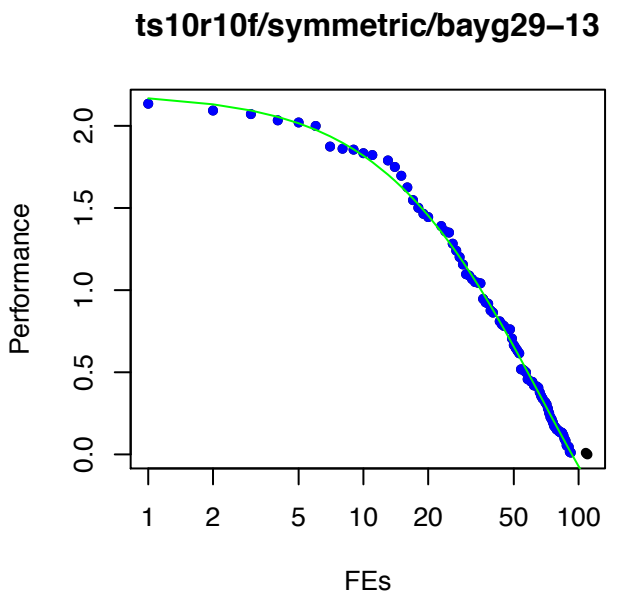
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2
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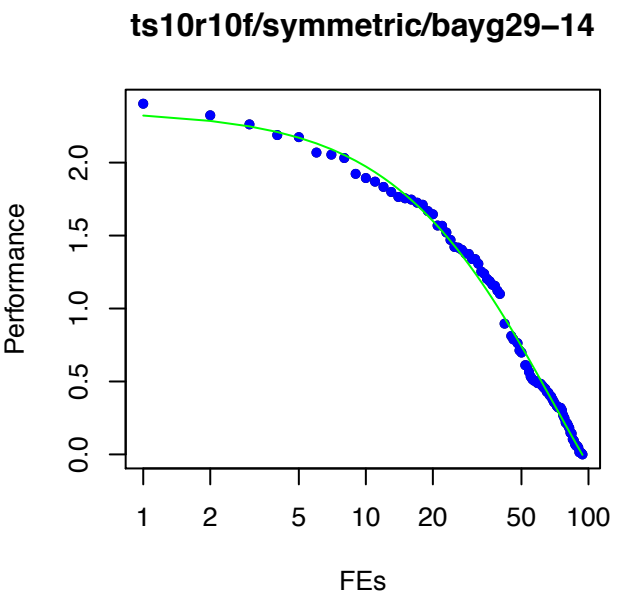
100
FEs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Performance
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2
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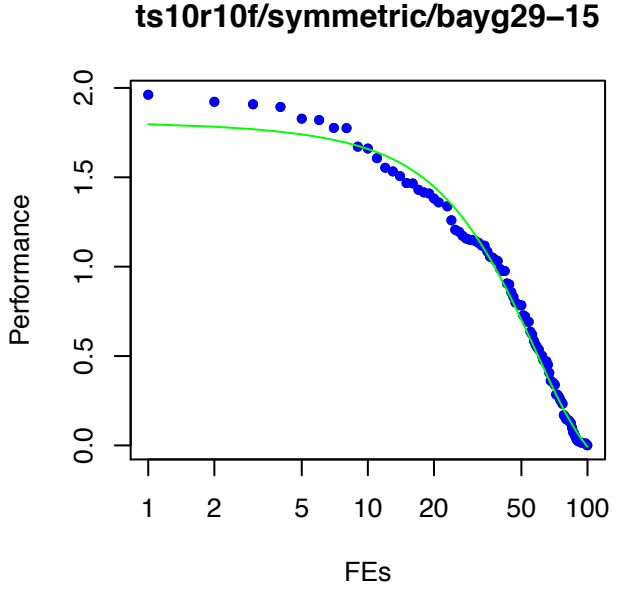
100
FEs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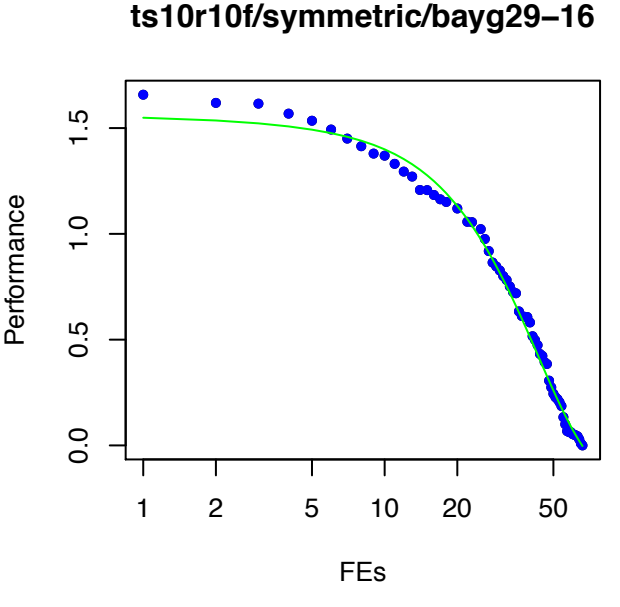
FEs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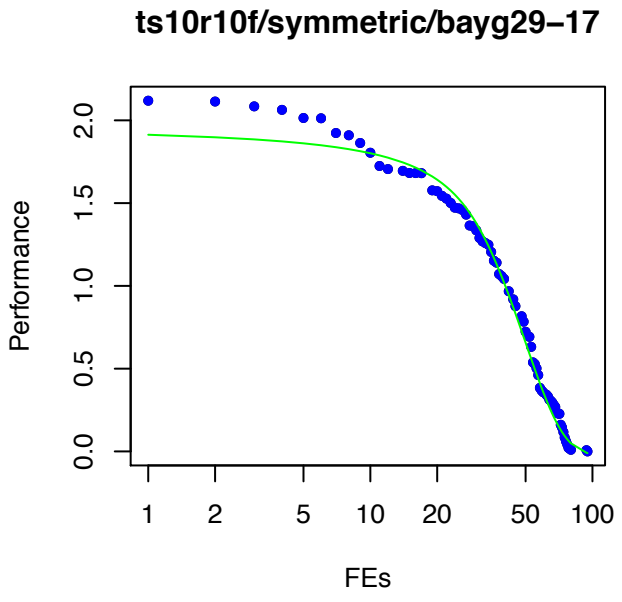
FEs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2
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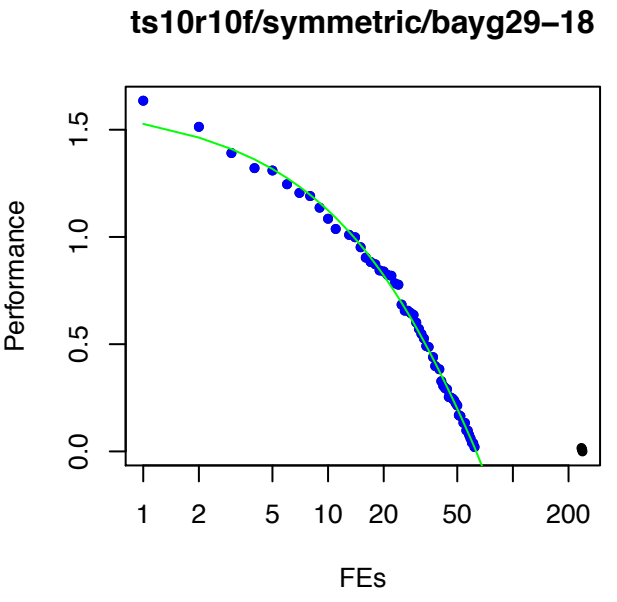
100
FEs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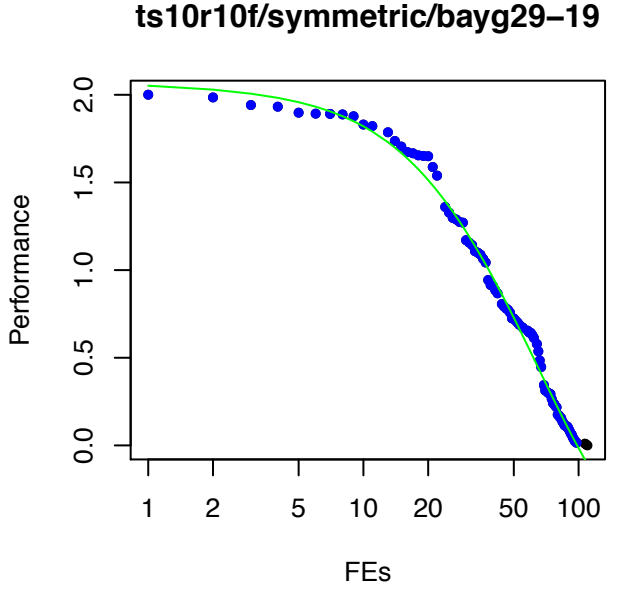
FEs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1
2
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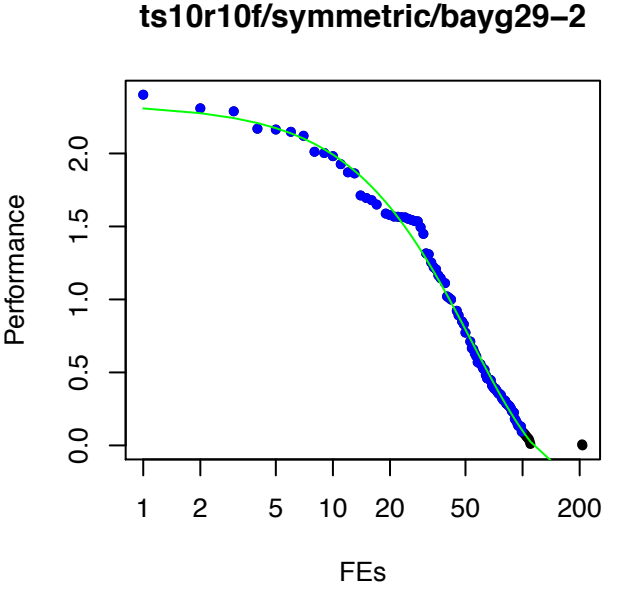
100
FEs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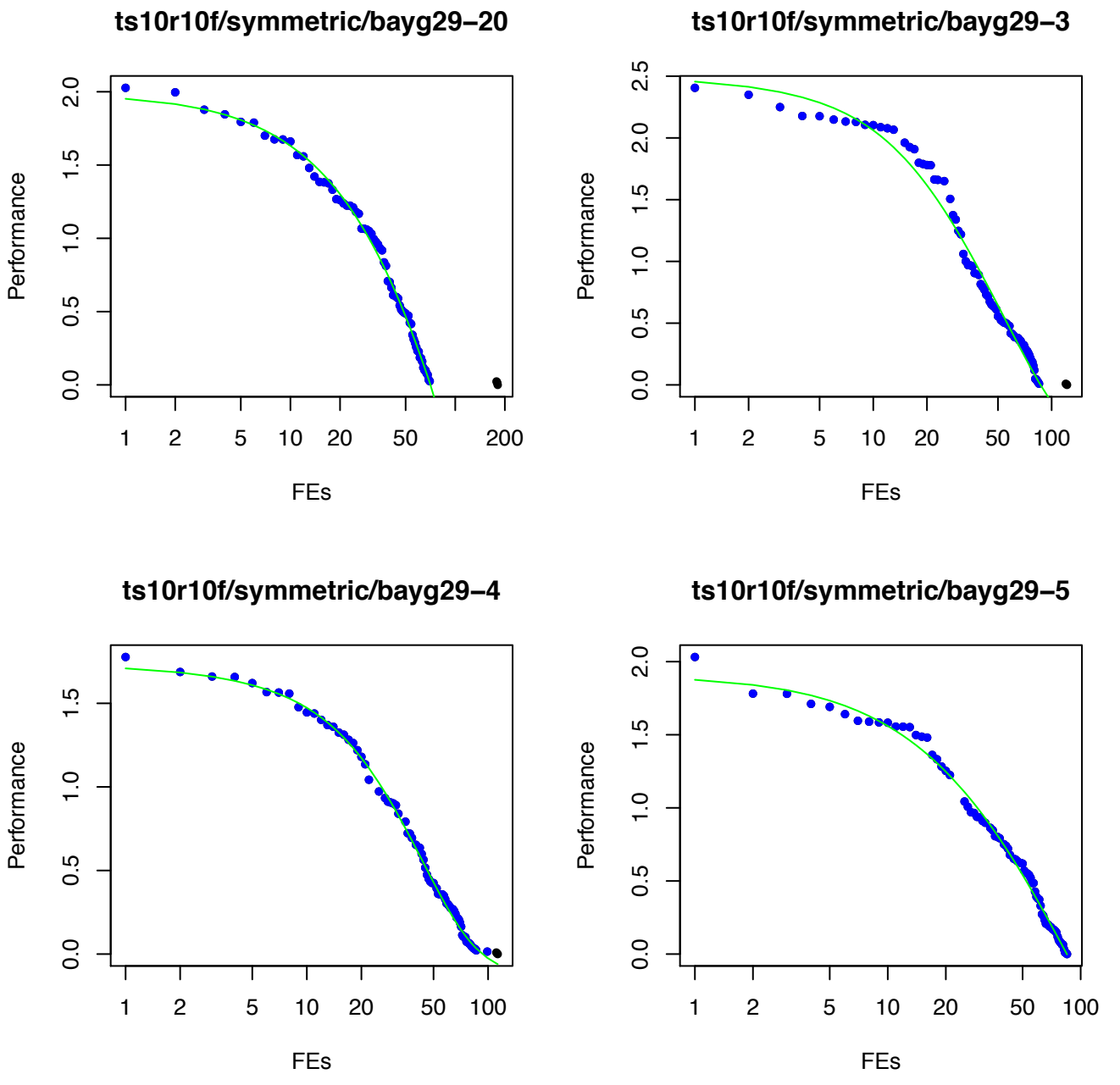
FEs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FEs
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Performance
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FEs
ts10r10f/symmetric/bayg29−4
Performance
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2
5
10
20
50
100
FEs
ts10r10f/symmetric/bayg29−5
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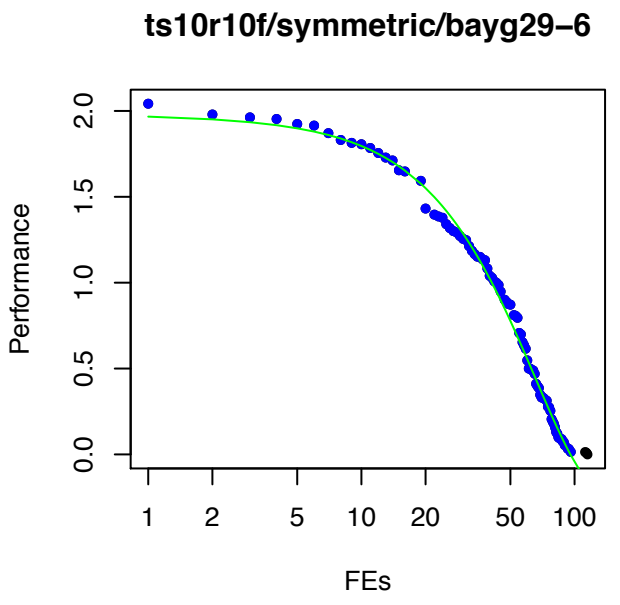
FEs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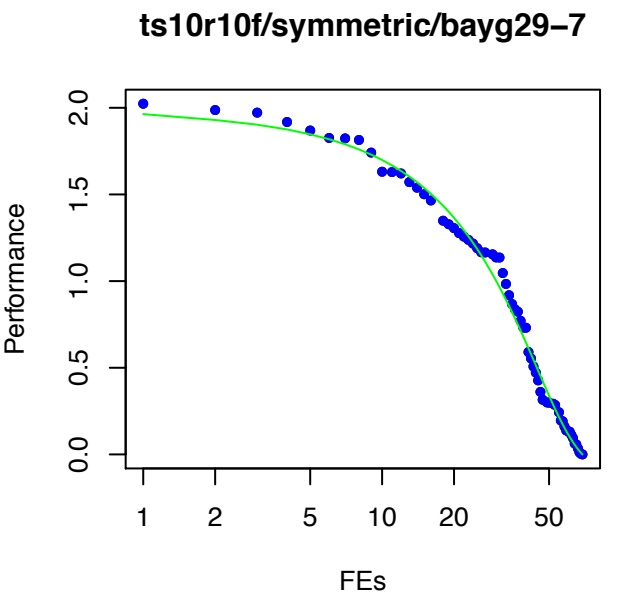
FEs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Performance
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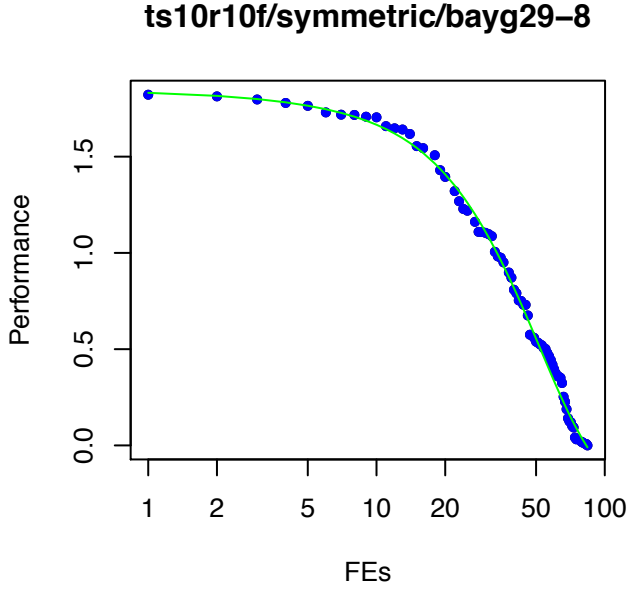
FEs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Performance
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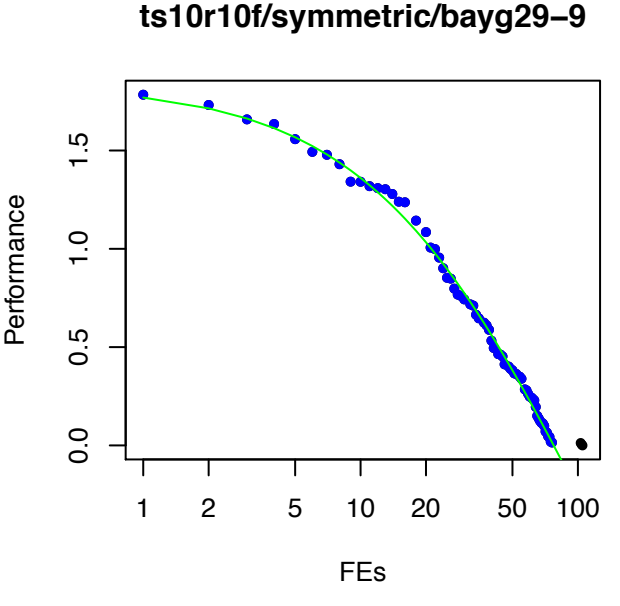
100
FEs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Performance
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2
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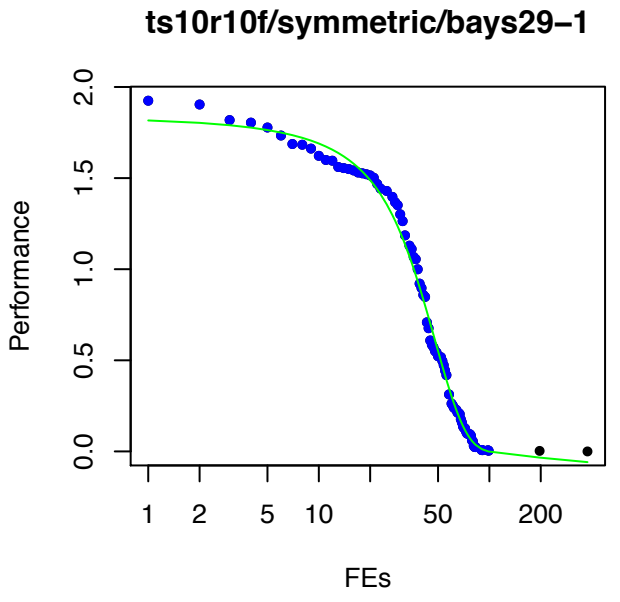
FEs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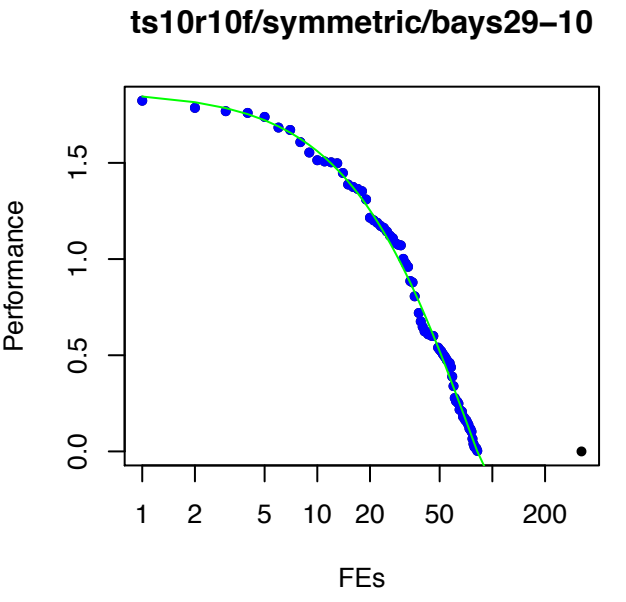
FEs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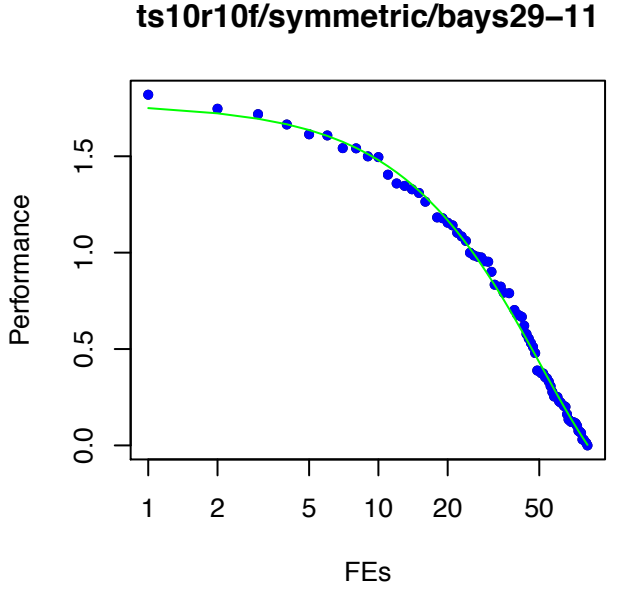
FEs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Performance
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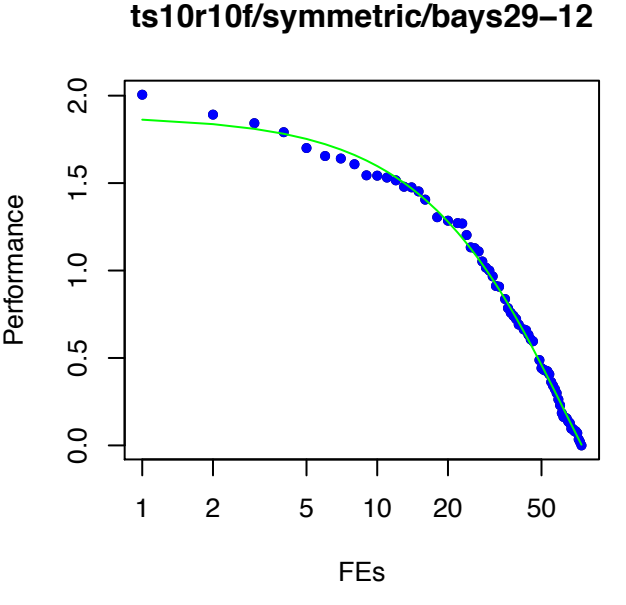
FEs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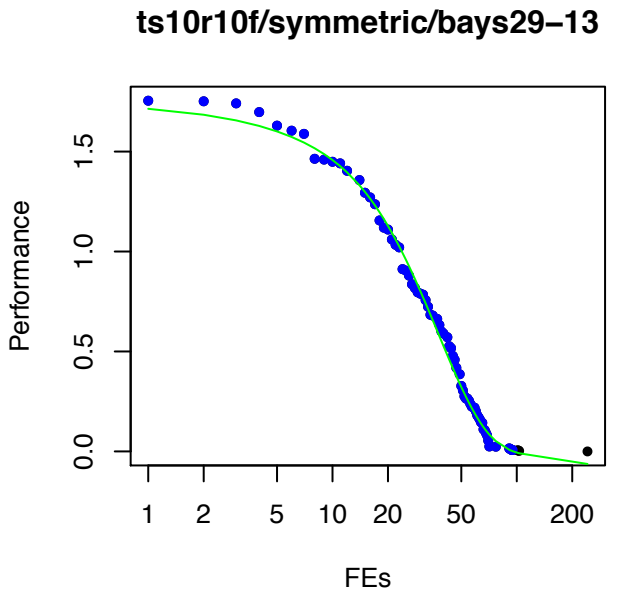
FEs


ts10r10f/symmetric/bays29−13
Performance
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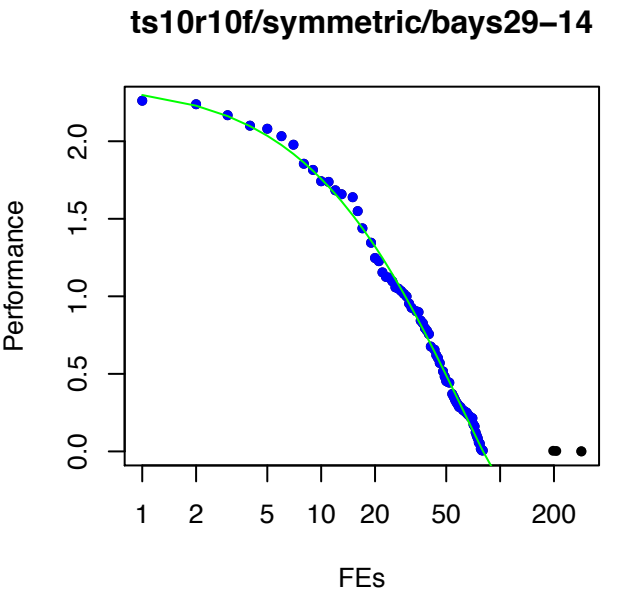
200
FEs


ts10r10f/symmetric/bays29−14
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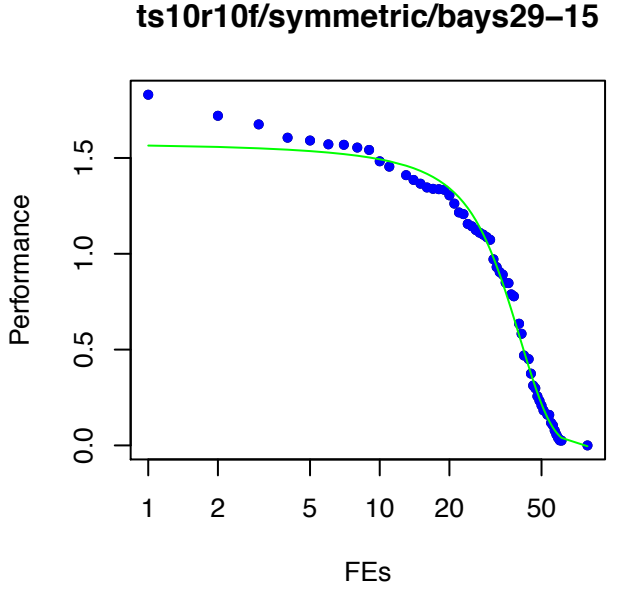
200
FEs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Performance
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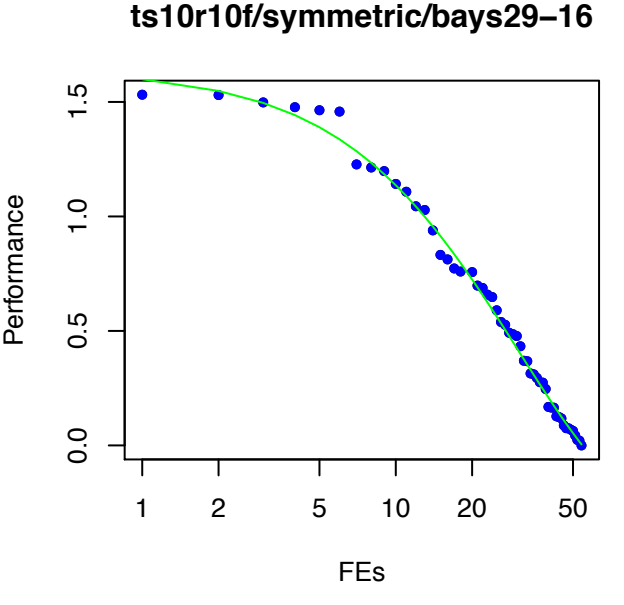
FEs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Performance
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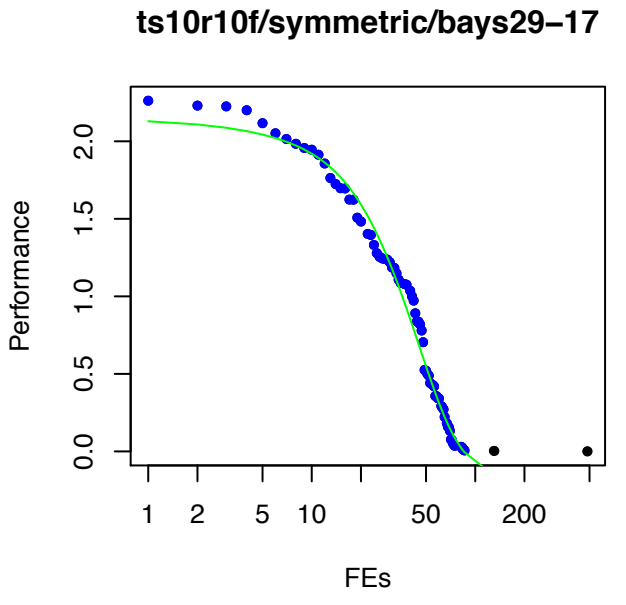
FEs


ts10r10f/symmetric/bays29−17
Performance
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1.5
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2
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10
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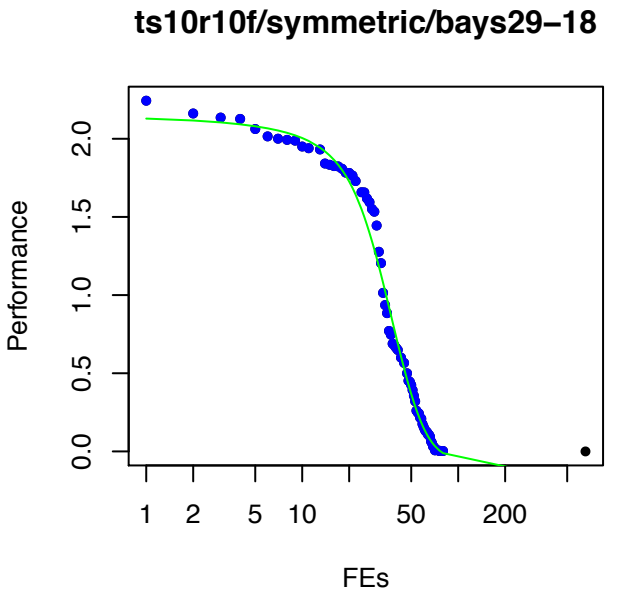
200
FEs


ts10r10f/symmetric/bays29−18
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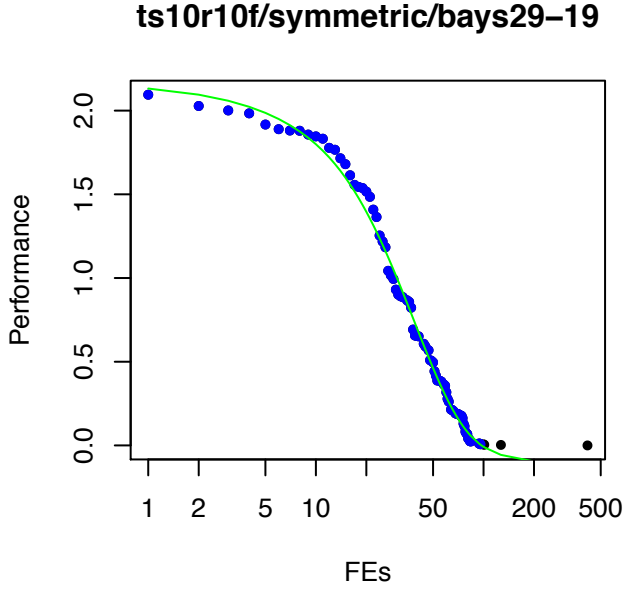
FEs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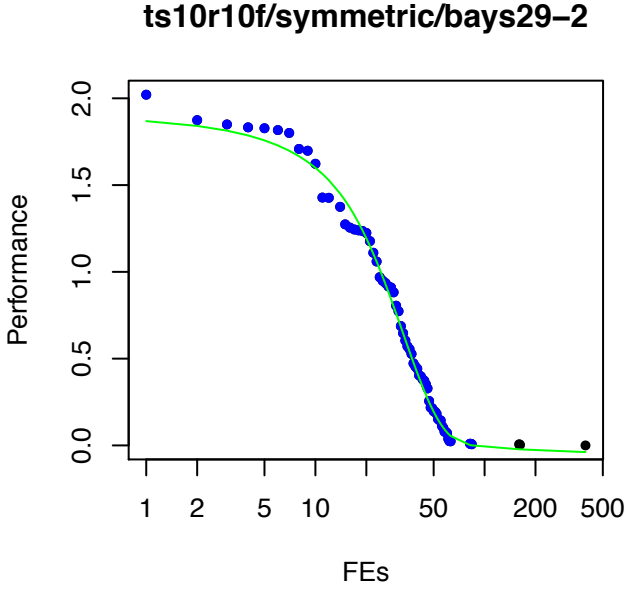
500
FEs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2
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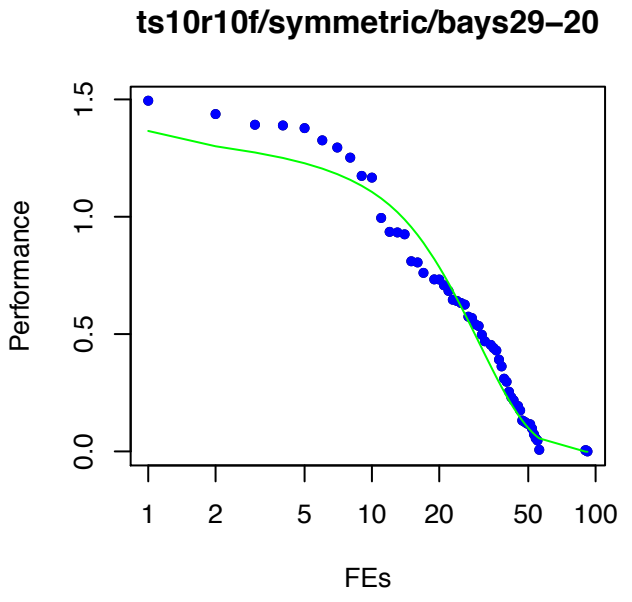
FEs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Performance
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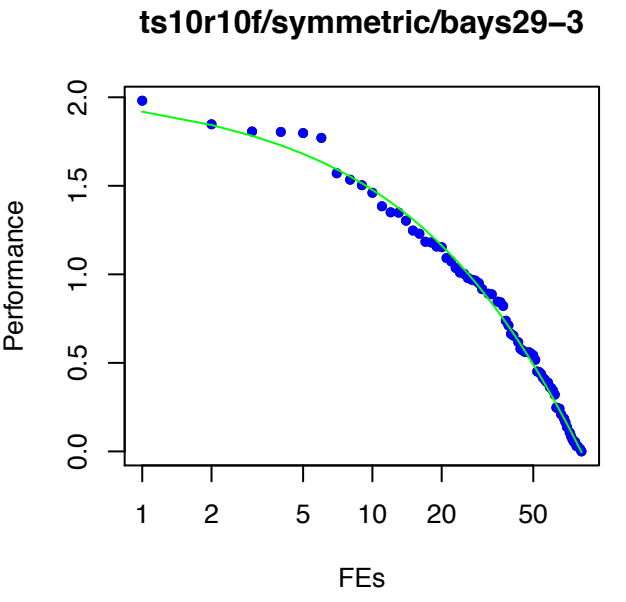
20
50
100
FEs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5
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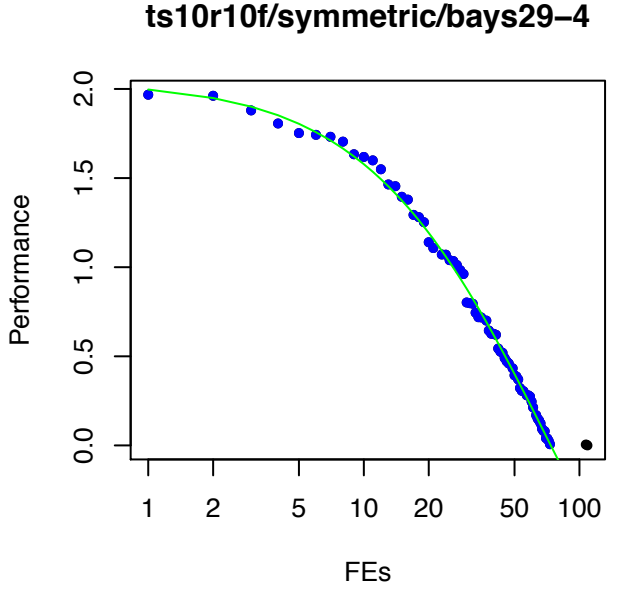
20
50
FEs


ts10r10f/symmetric/bays29−4
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2
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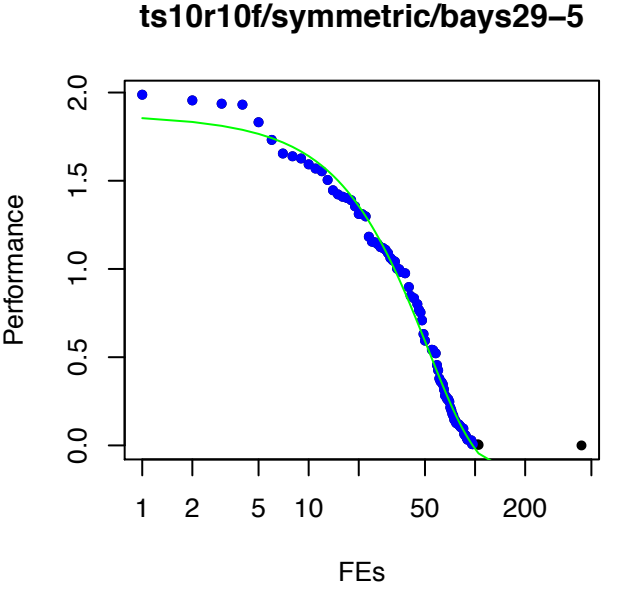
100
FEs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Performance
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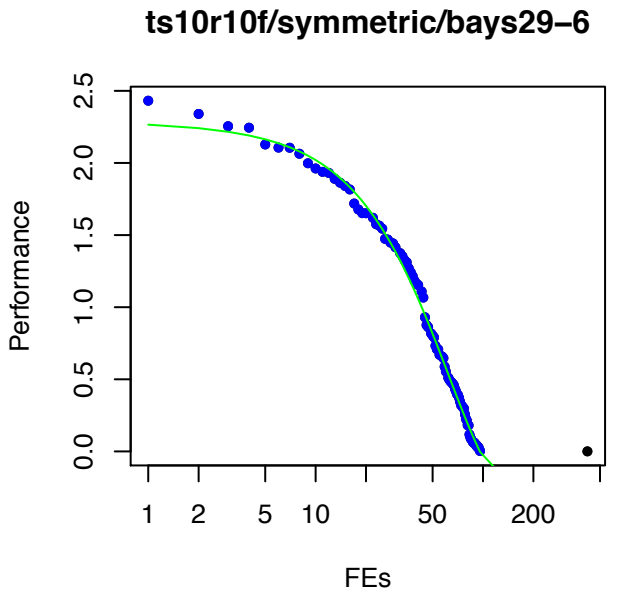
FEs


ts10r10f/symmetric/bays29−6
Performance
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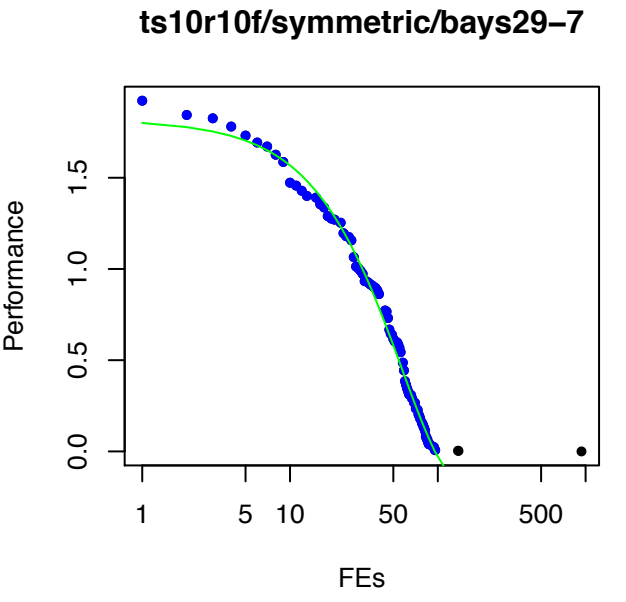
FEs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Performance
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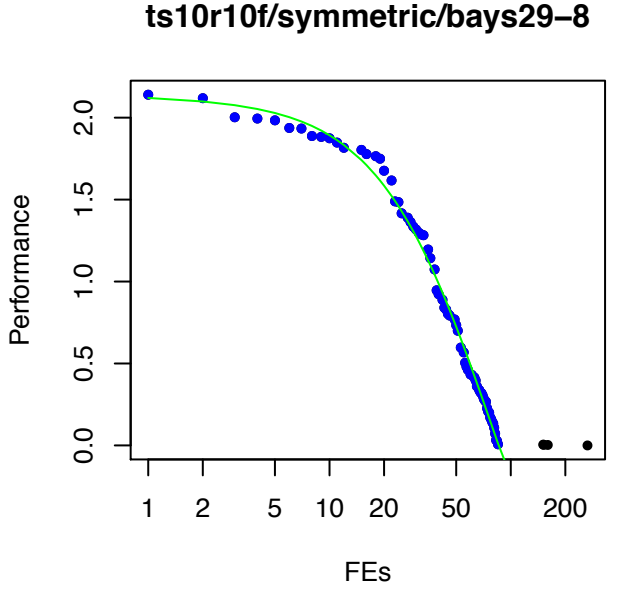
FEs


ts10r10f/symmetric/bays29−8
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2
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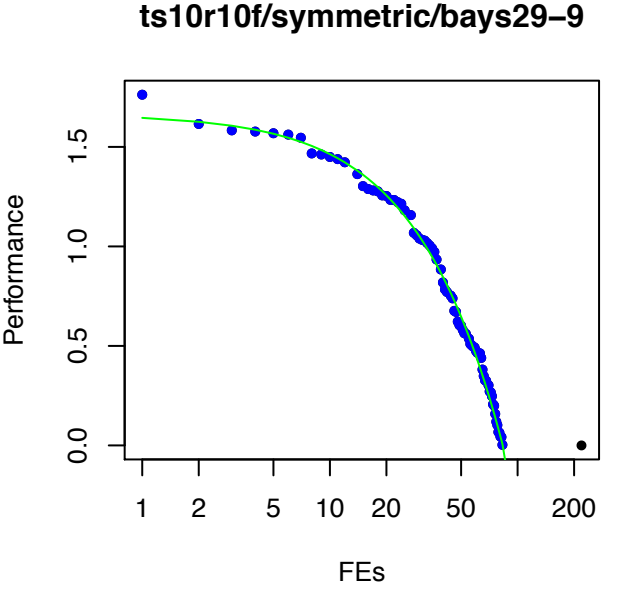
FEs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Performance
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1.0
1.5
1
2
5
10
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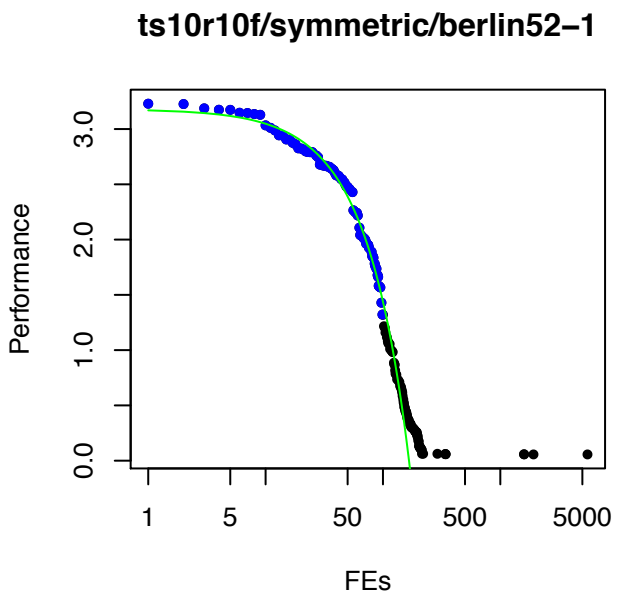
50
200
FEs


ts10r10f/symmetric/berlin52−1
Performance
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2.0
3.0
1
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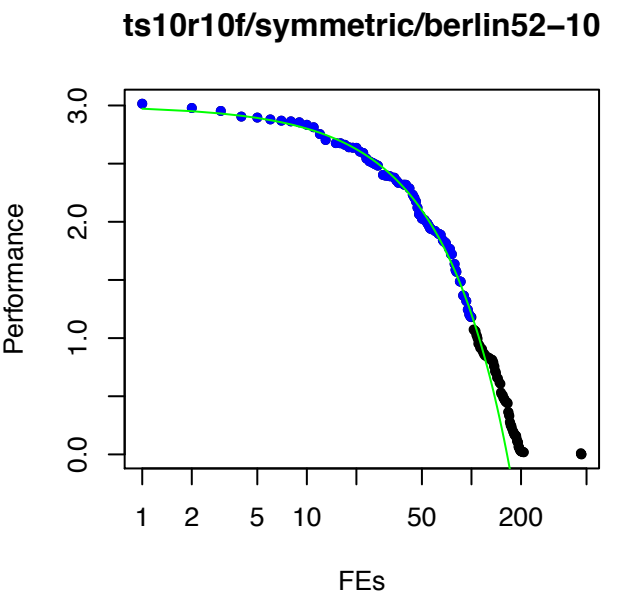
500
5000
FEs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Performance
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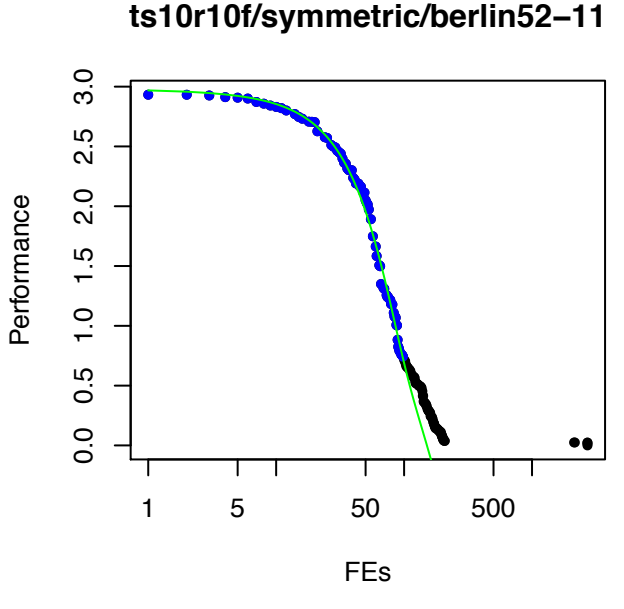
2
5
10
50
200
FEs


ts10r10f/symmetric/berlin52−11
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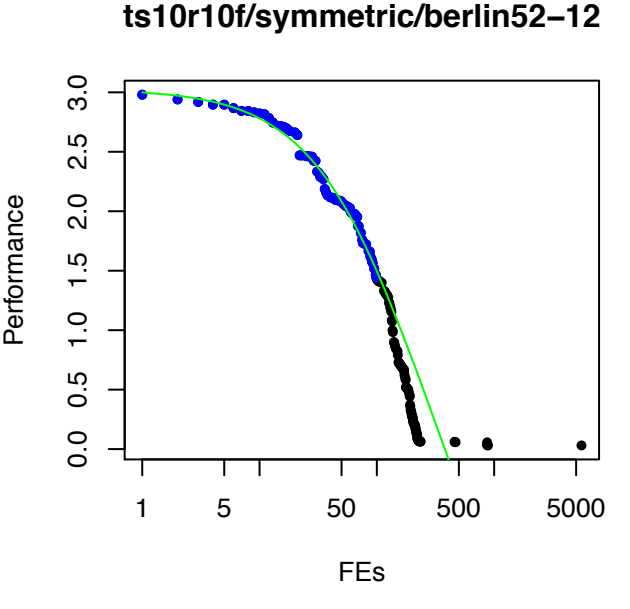
FEs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3.0
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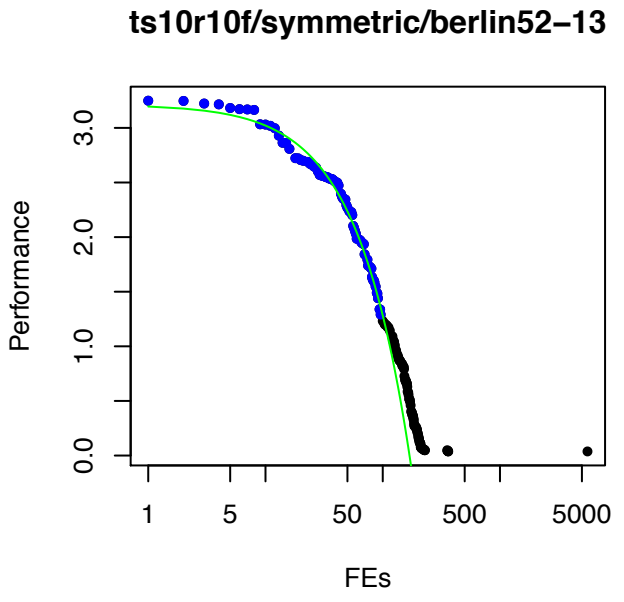
500
5000
FEs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Performance
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1
5
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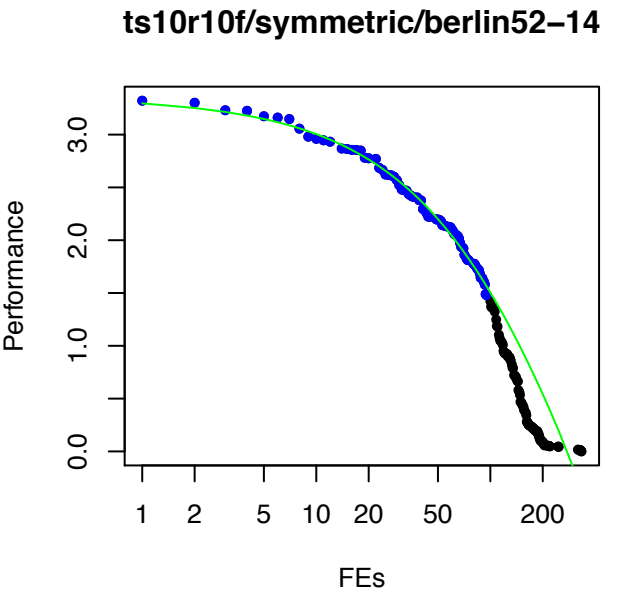
500
5000
FEs


ts10r10f/symmetric/berlin52−14
Performance
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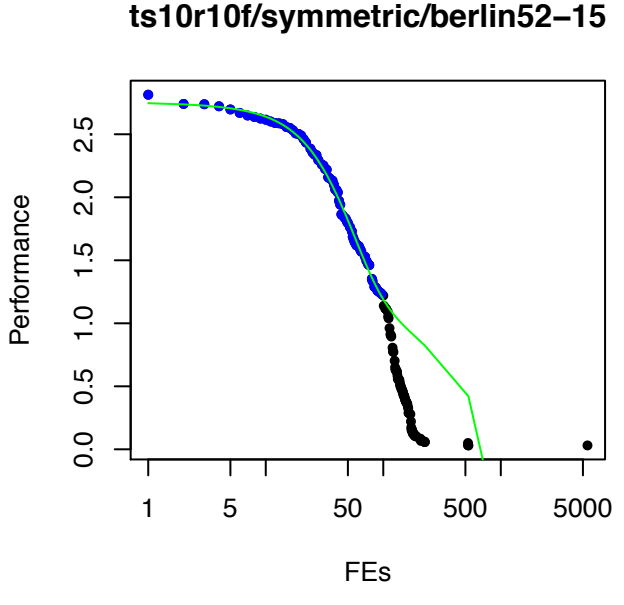
200
FEs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Performance
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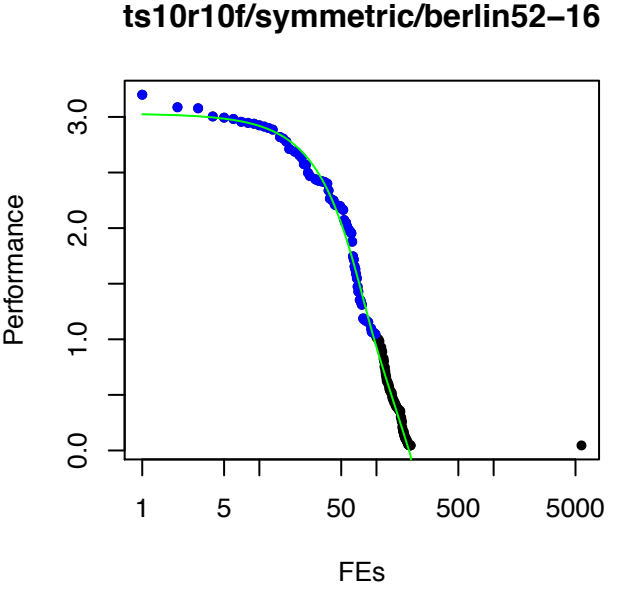
5000
FEs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Performance
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500
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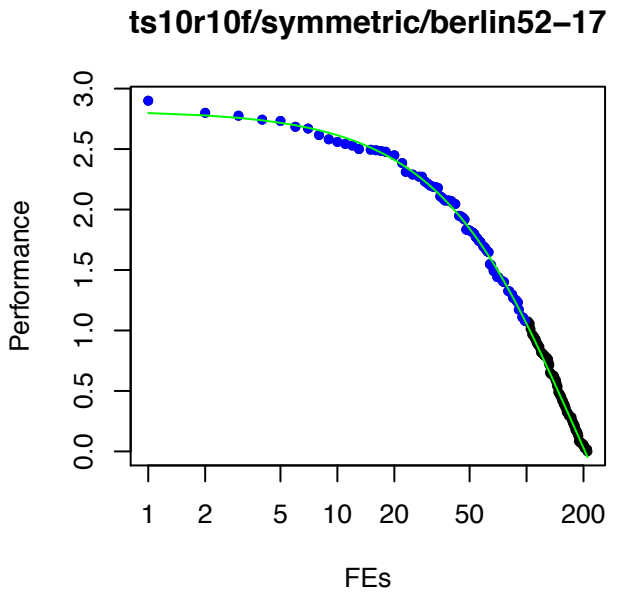
FEs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Performance
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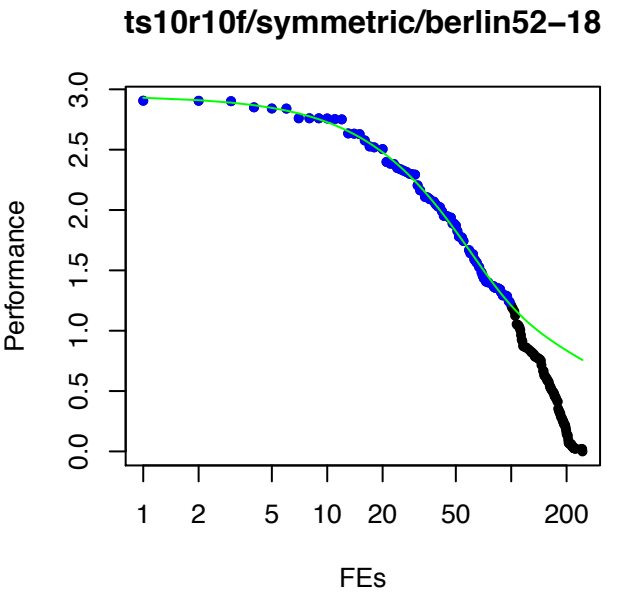
200
FEs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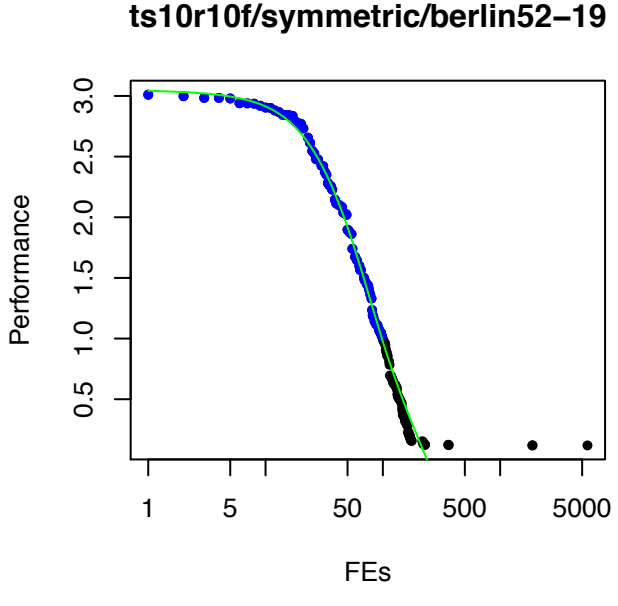
200
FEs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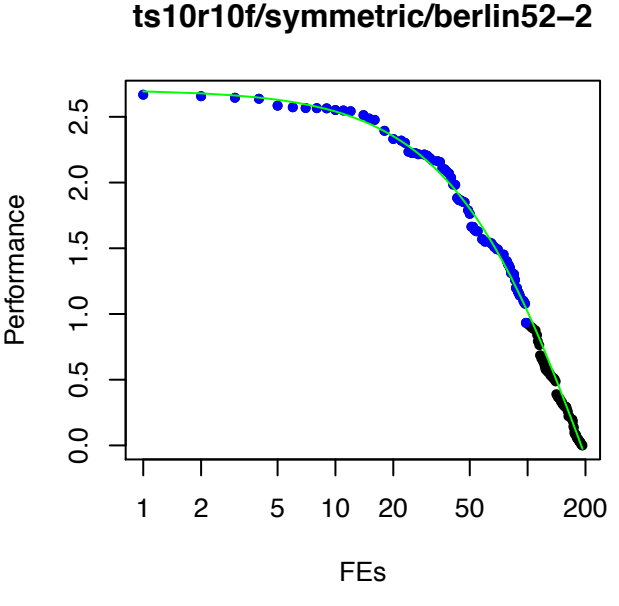
5000
FEs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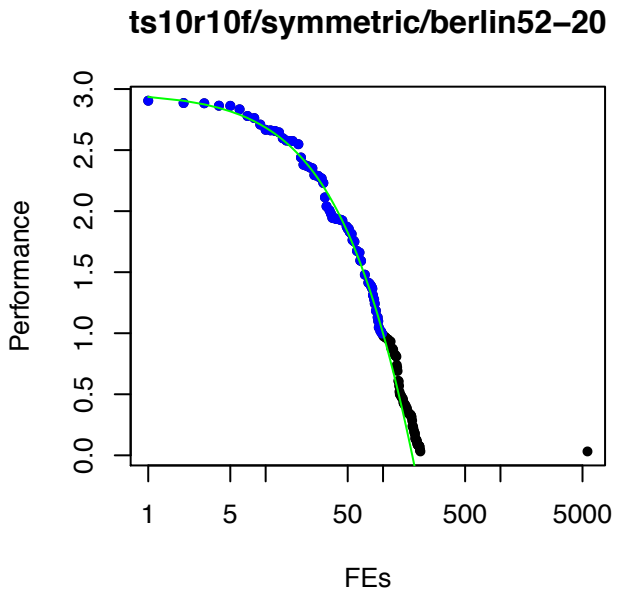
FEs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Performance
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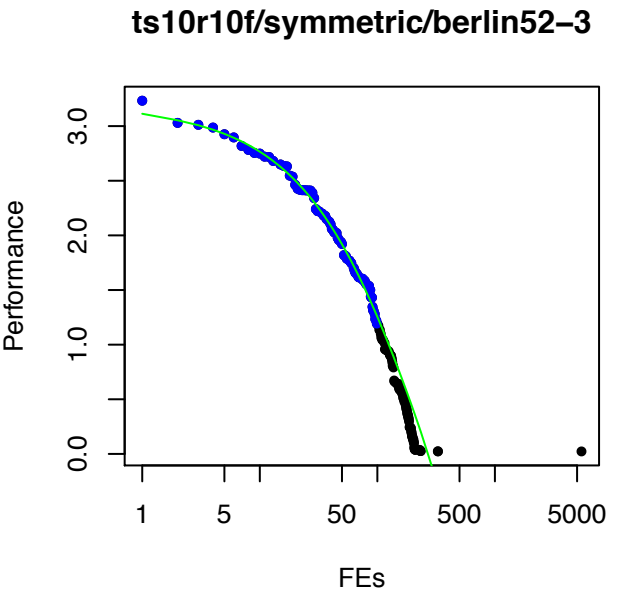
FEs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Performance
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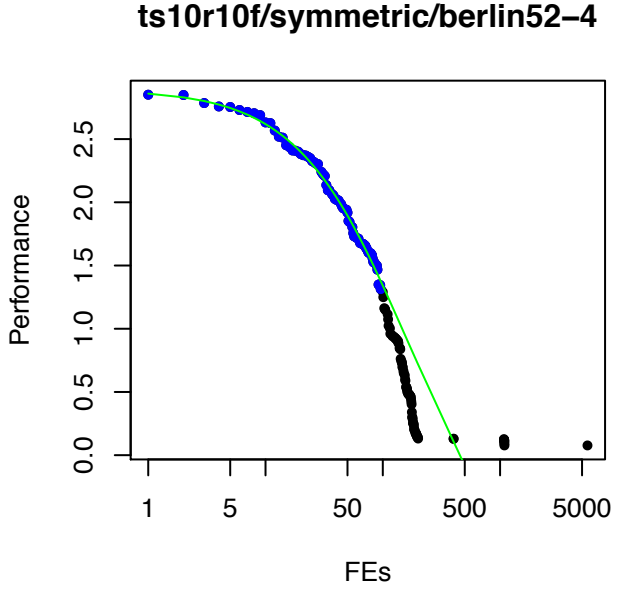
FEs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Performance
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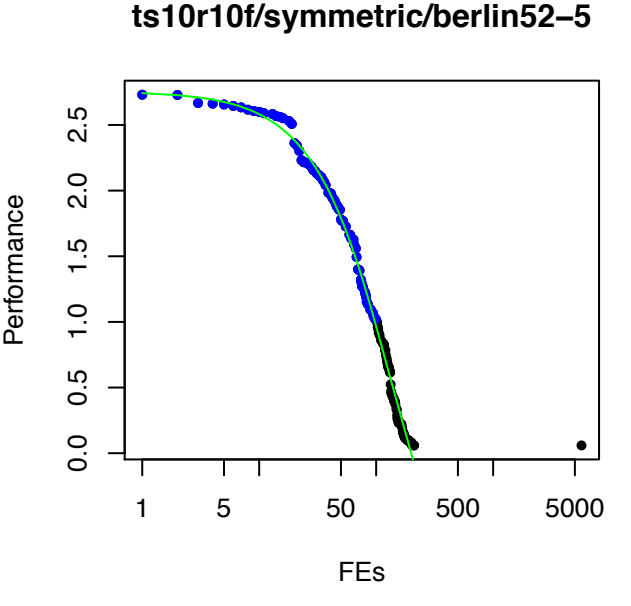
FEs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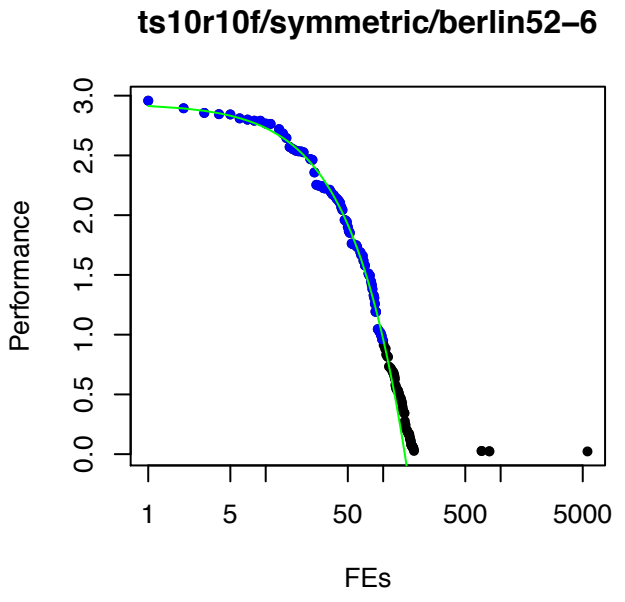
5000
FEs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Performance
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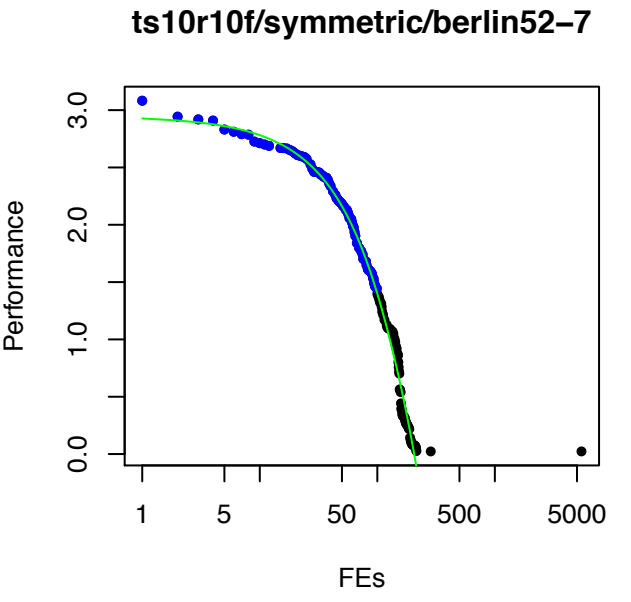
5000
FEs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Performance
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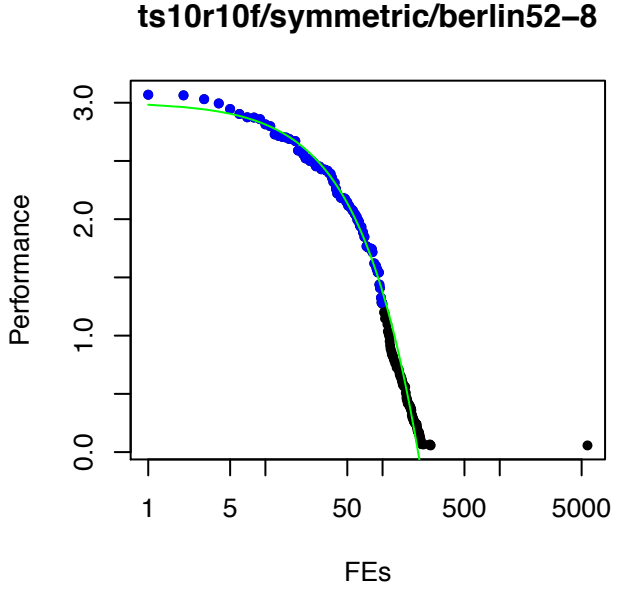
5000
FEs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Performance
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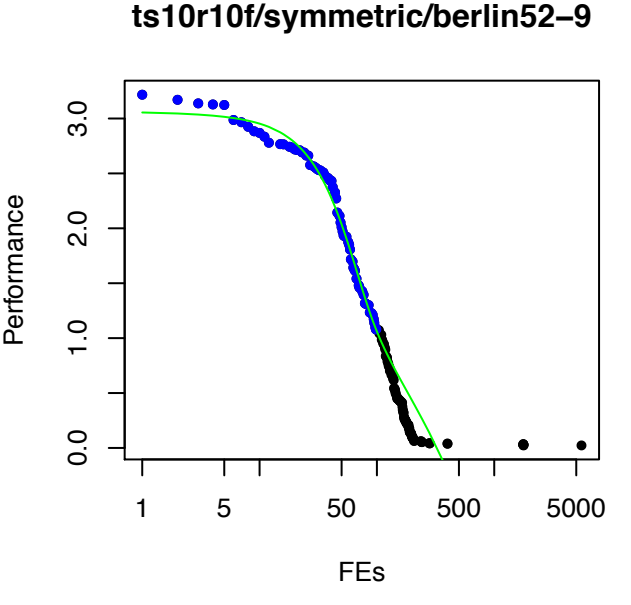
500
5000
FEs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Performance
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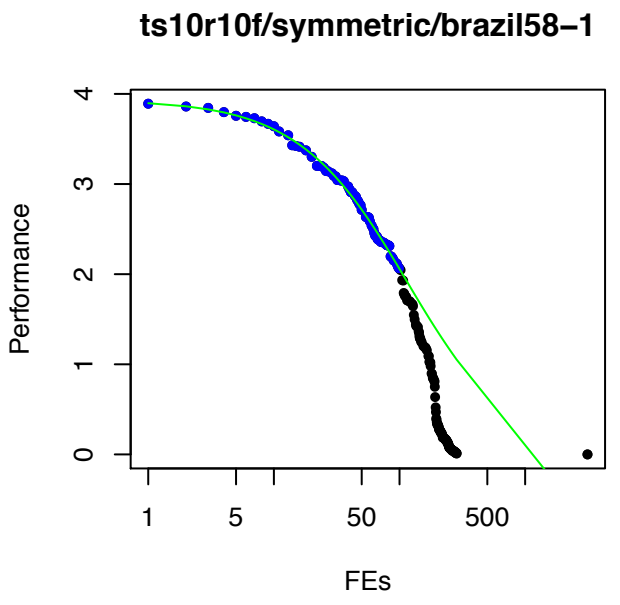
FEs


ts10r10f/symmetric/brazil58−1
Performance
FEs
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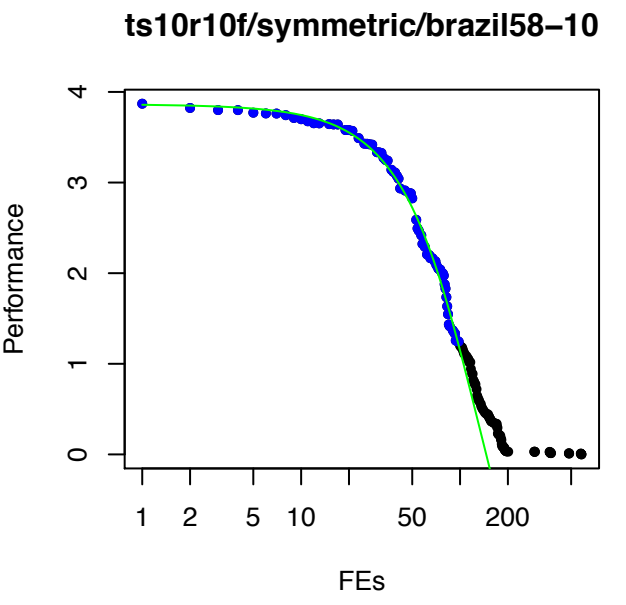
ts10r10f/symmetric/brazil58−10
Performance
FEs
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3
4
1
2
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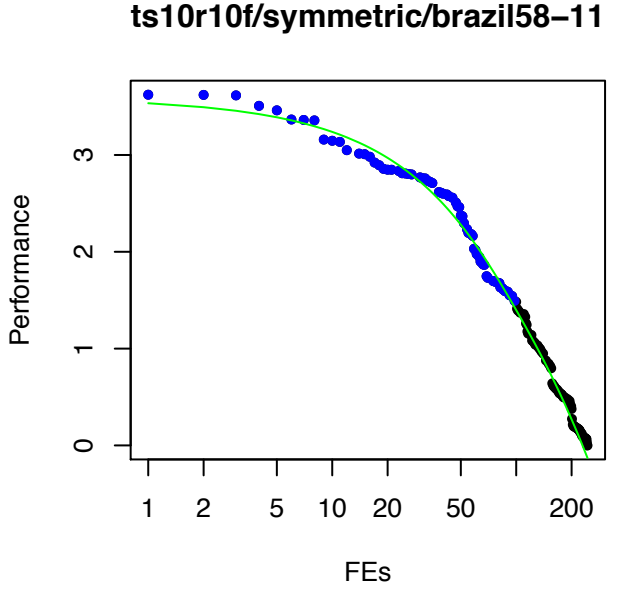
50
200


ts10r10f/symmetric/brazil58−11
Performance
FEs
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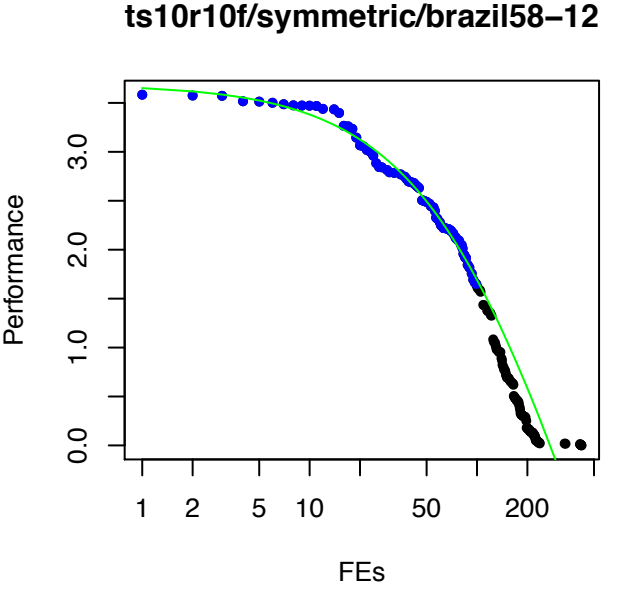
2
3
1
2
5
10
20
50
200


ts10r10f/symmetric/brazil58−12
Performance
FEs
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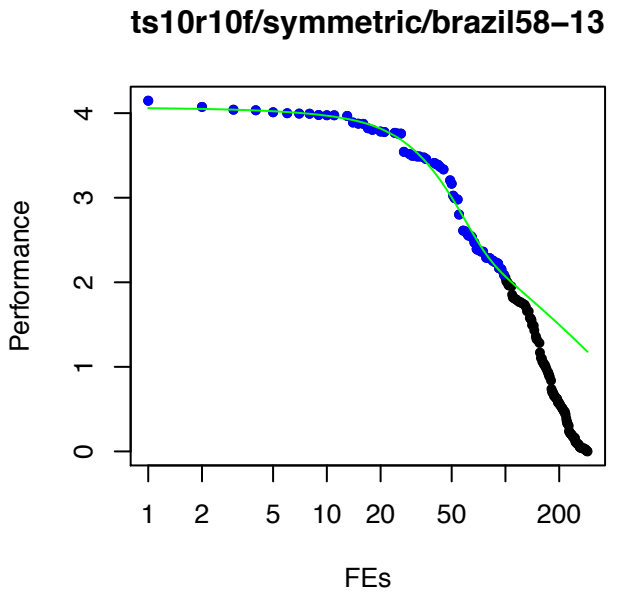
200


ts10r10f/symmetric/brazil58−13
Performance
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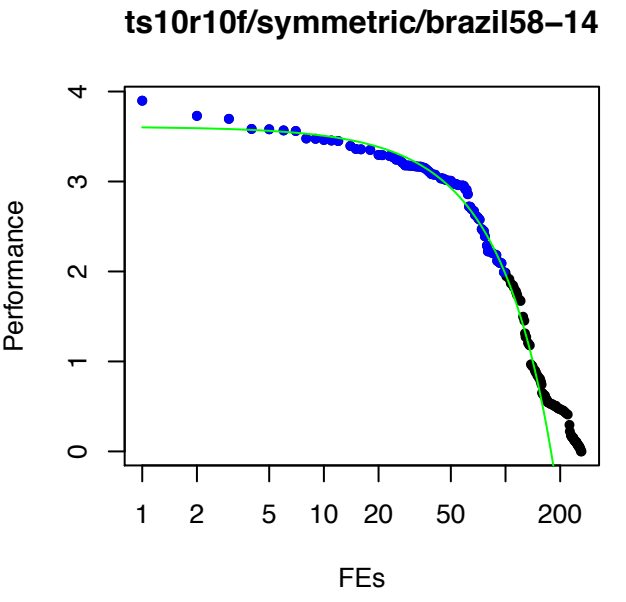
1
2
5
10
20
50
200
FEs


ts10r10f/symmetric/brazil58−14
Performance
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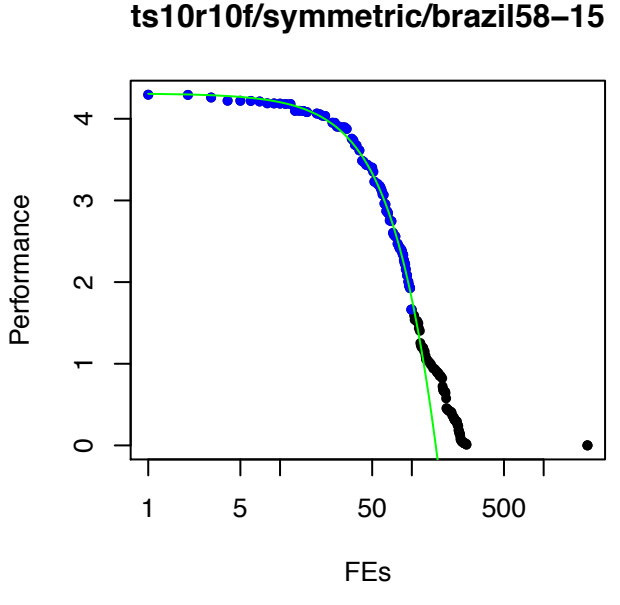
200
FEs


ts10r10f/symmetric/brazil58−15
Performance
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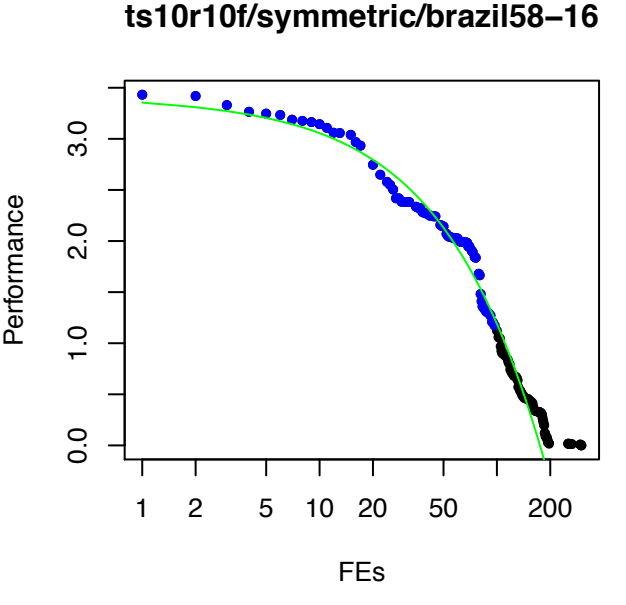
FEs


ts10r10f/symmetric/brazil58−16
Performance
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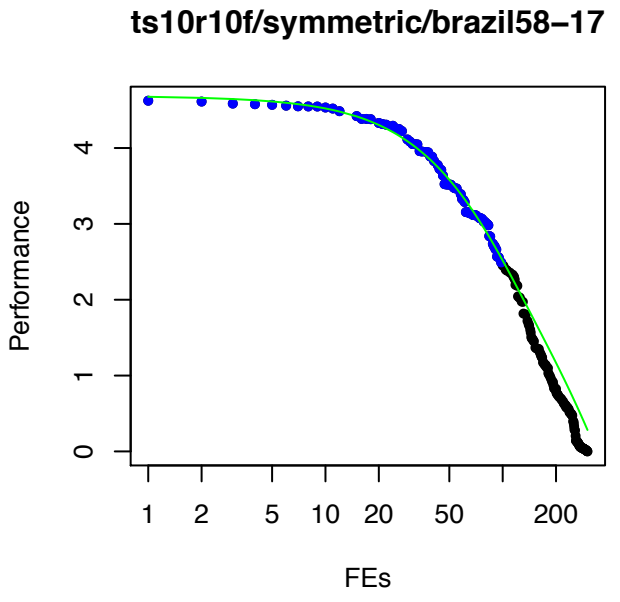
200
FEs


ts10r10f/symmetric/brazil58−17
Performance
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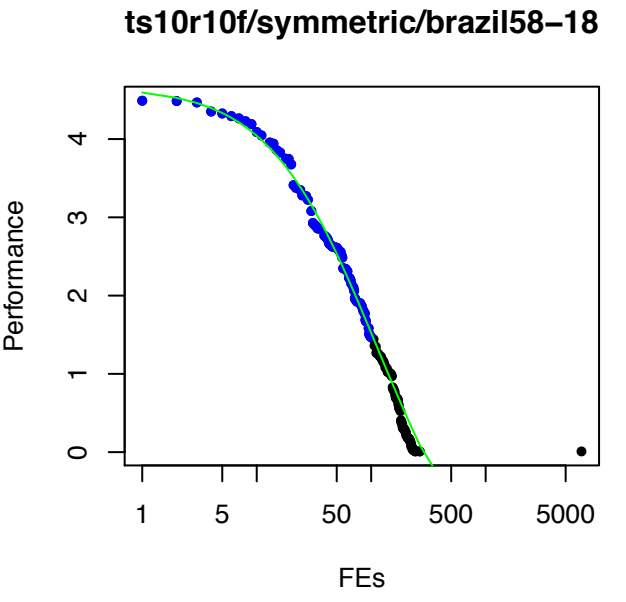
2
3
4
1
2
5
10
20
50
200
FEs


ts10r10f/symmetric/brazil58−18
Performance
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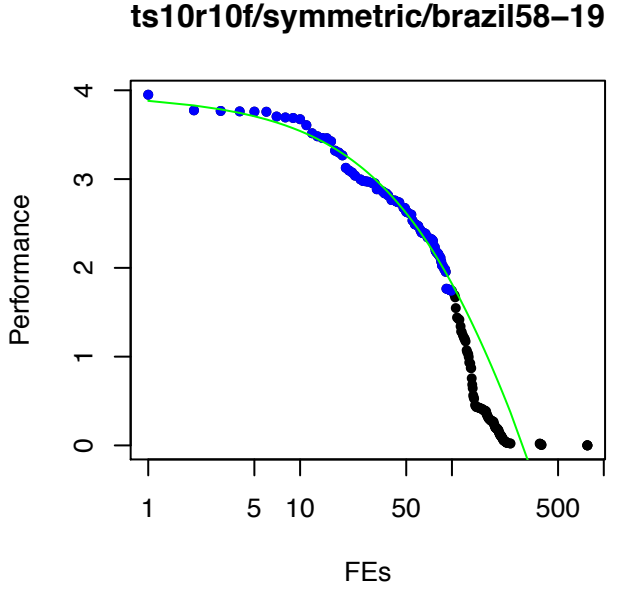
FEs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Performance
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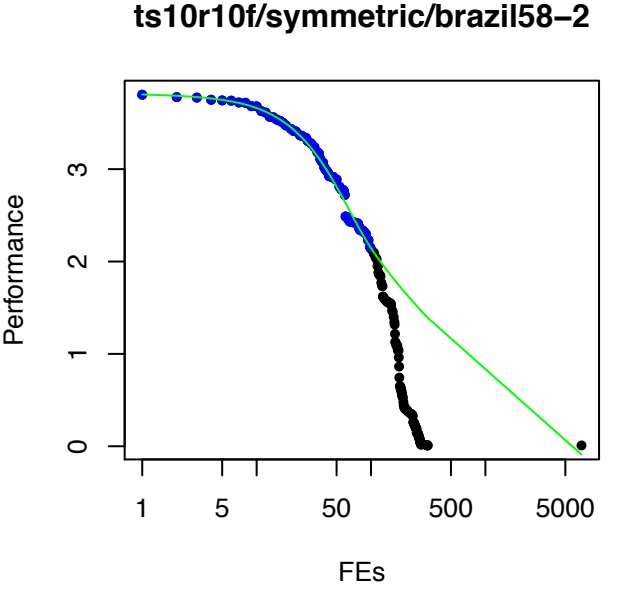
FEs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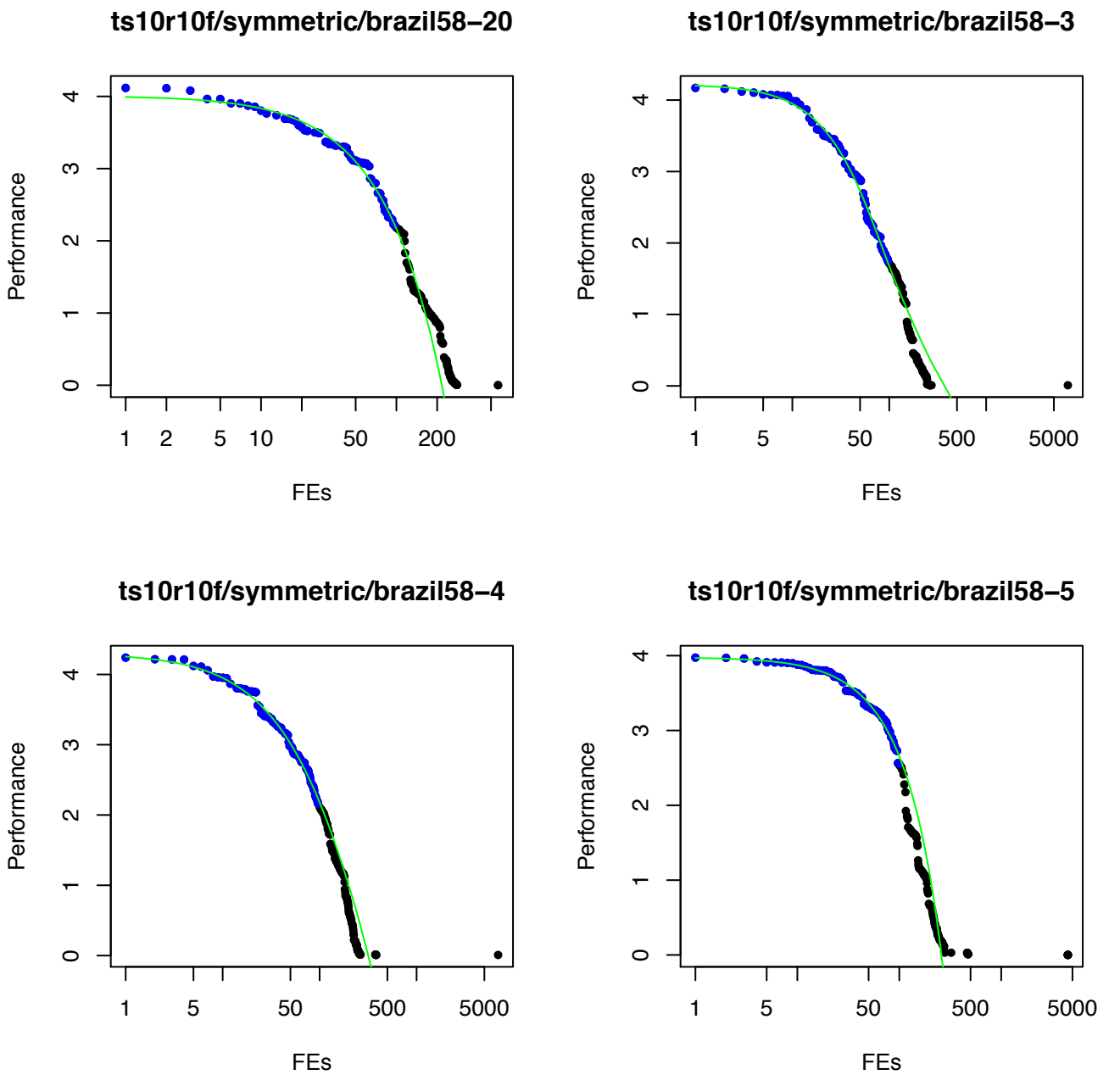
FEs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Performance
FEs
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2
3
4
1
2
5
10
50
200
ts10r10f/symmetric/brazil58−3
Performance
FEs
0
1
2
3
4
1
5
50
500
5000
ts10r10f/symmetric/brazil58−4
Performance
FEs
0
1
2
3
4
1
5
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5
50
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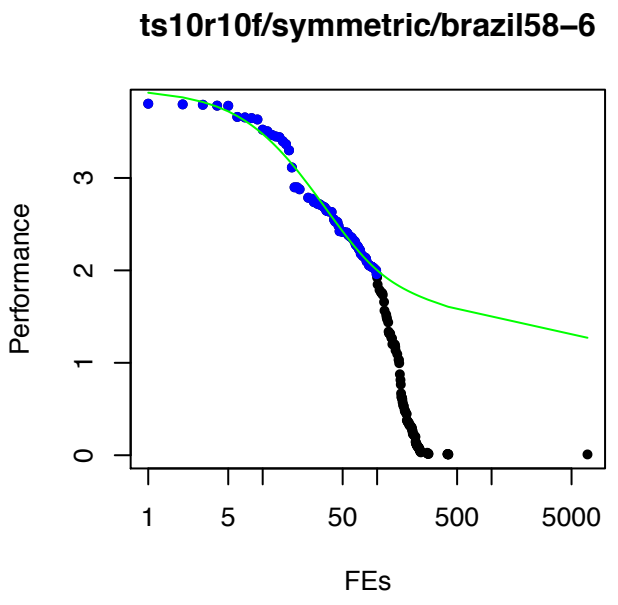
ts10r10f/symmetric/brazil58−6
Performance
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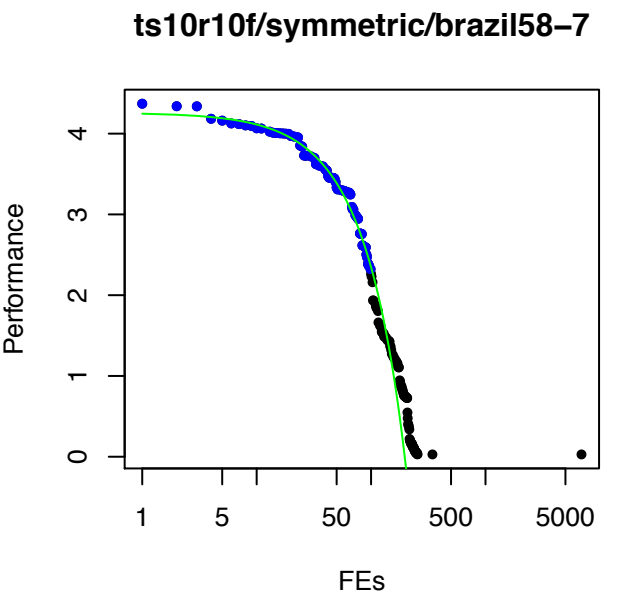
FEs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Performance
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3
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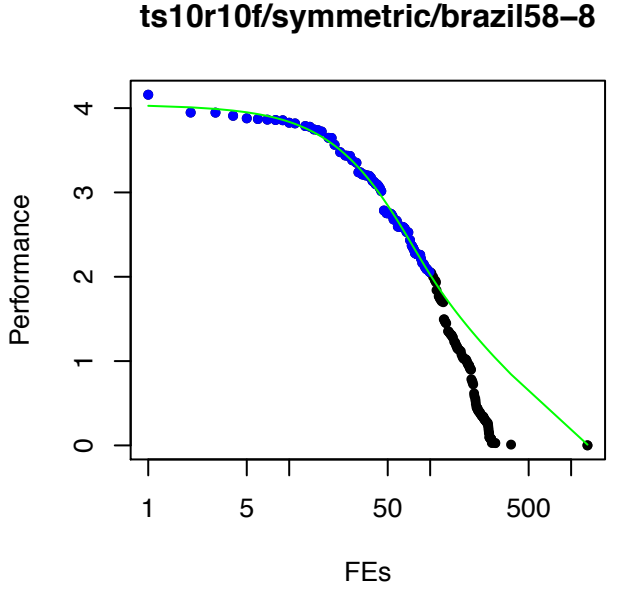
FEs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Performance
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3
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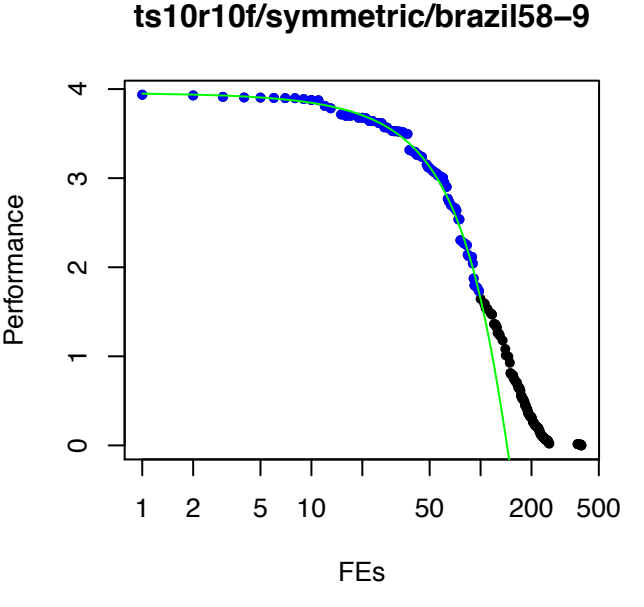
FEs


ts10r10f/symmetric/brazil58−9
Performance
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2
3
4
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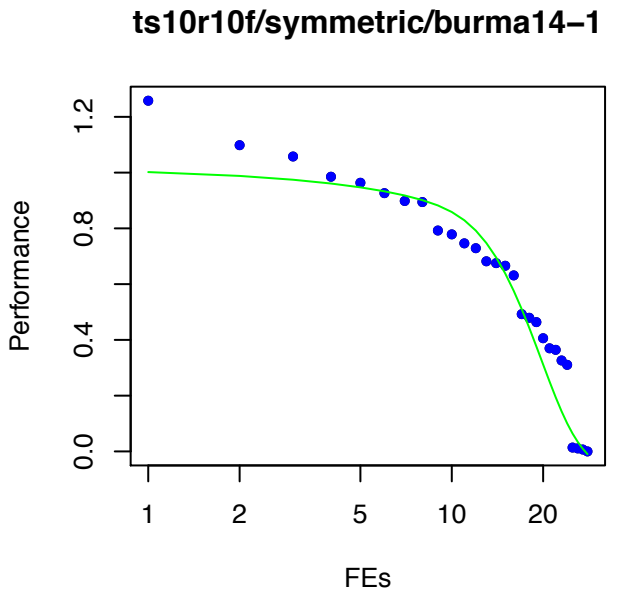
2
5
10
50
200
500
FEs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Performance
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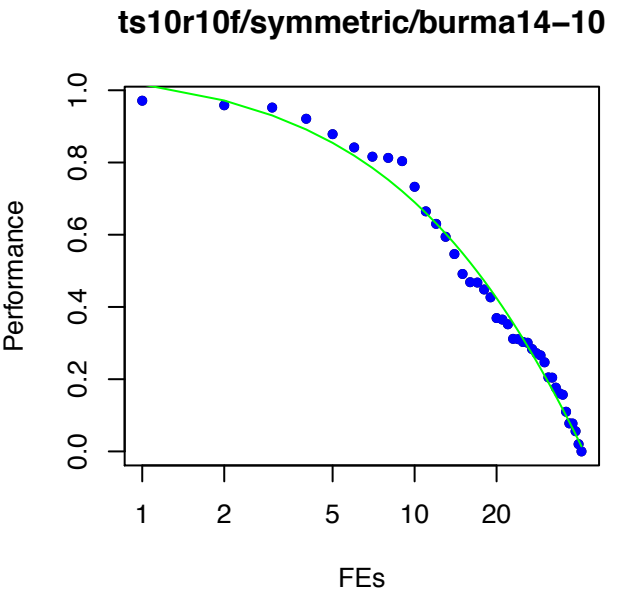
1.2
1
2
5
10
20
FEs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5
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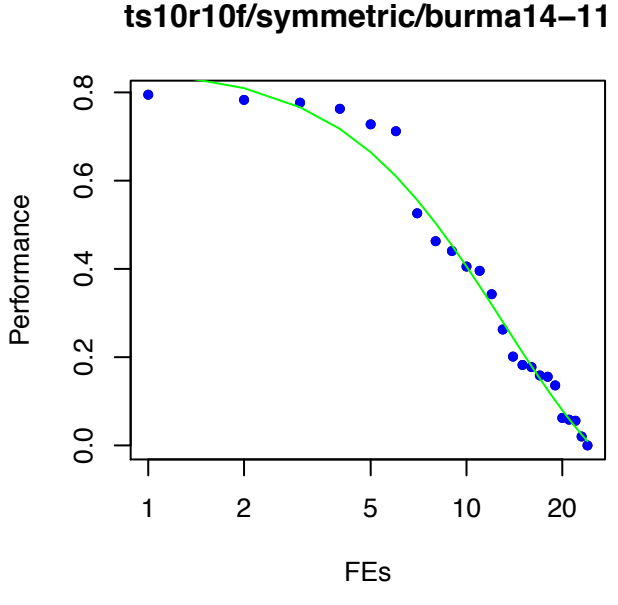
FEs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Performance
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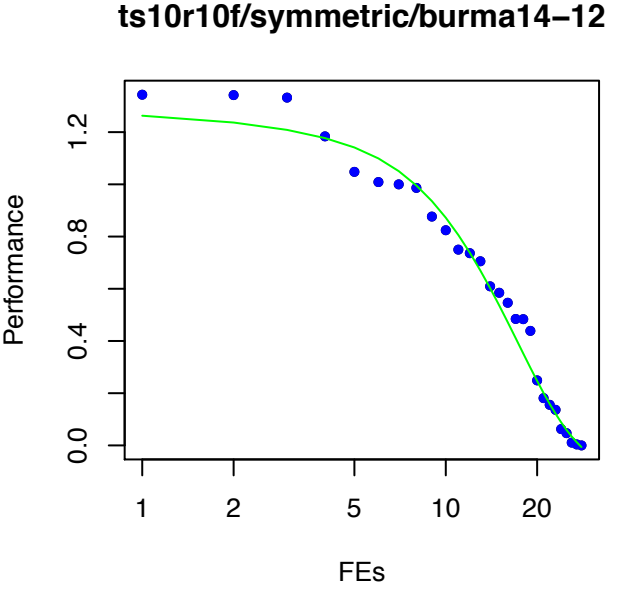
1
2
5
10
20
FEs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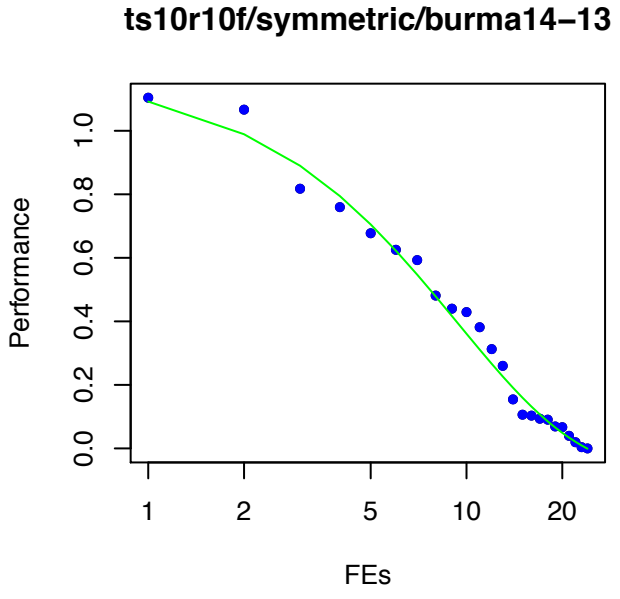
2
5
10
20
FEs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0.8
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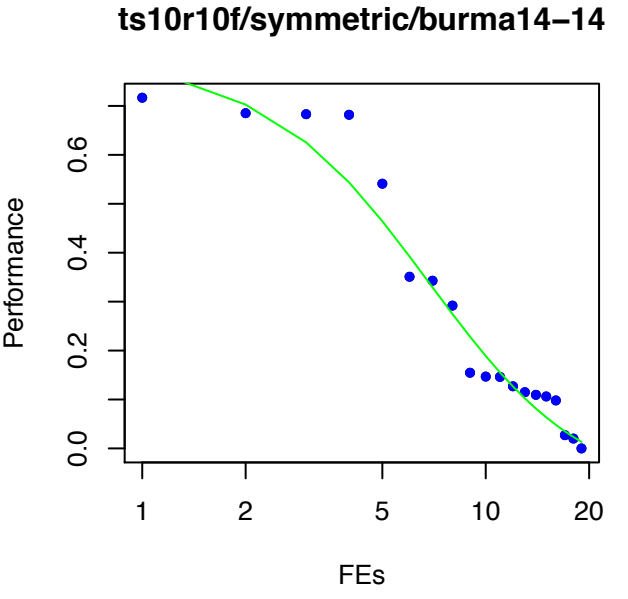
1
2
5
10
20
FEs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Performance
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1
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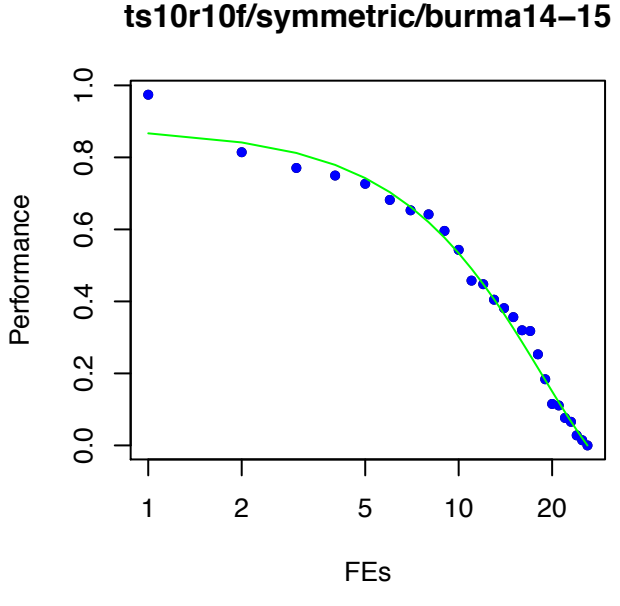
5
10
20
FEs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0.8
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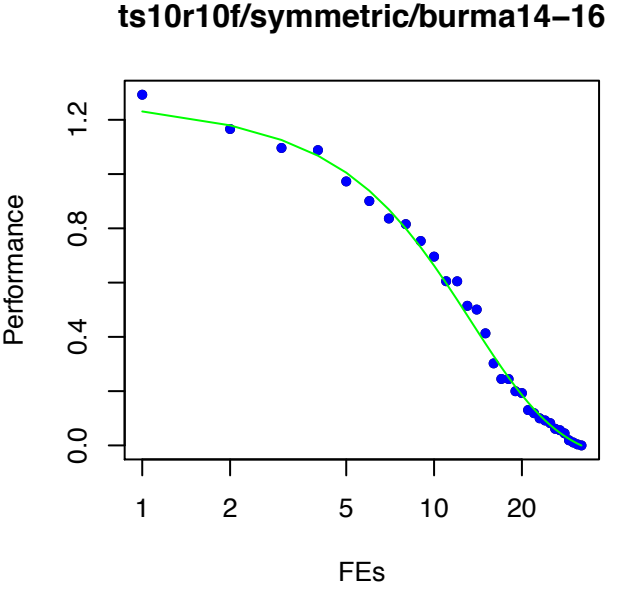
1
2
5
10
20
FEs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Performance
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0.8
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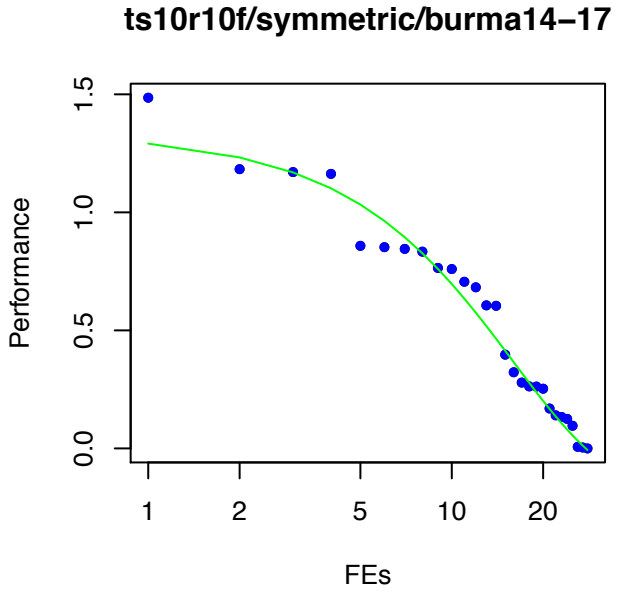
2
5
10
20
FEs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Performance
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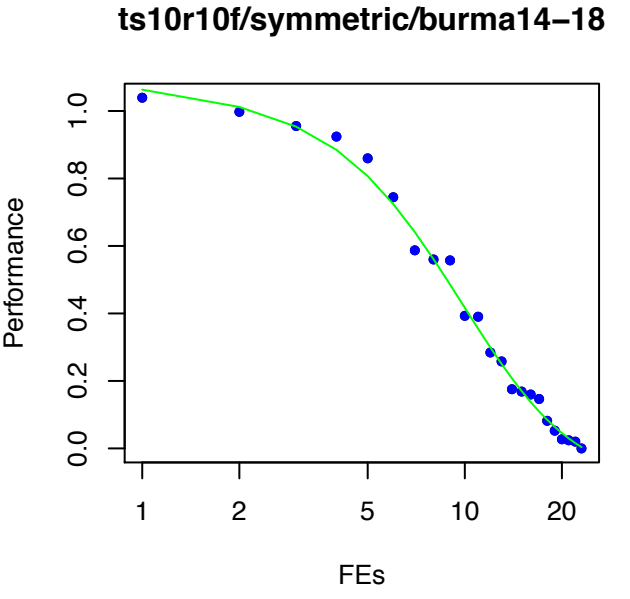
1
2
5
10
20
FEs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Performance
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2
5
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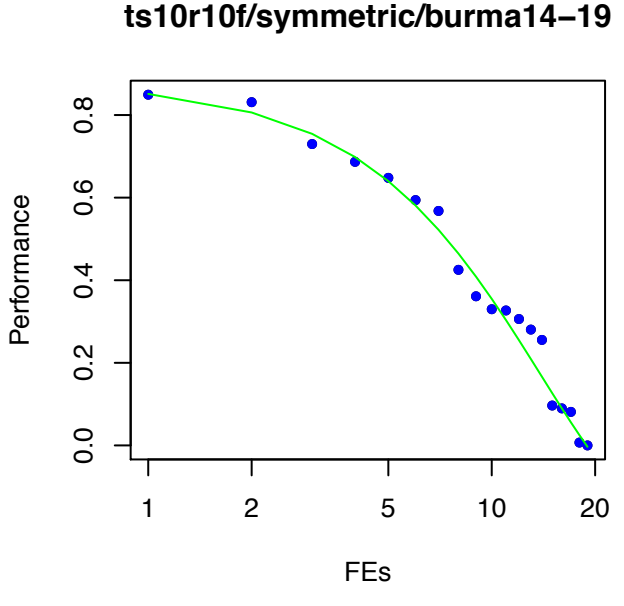
FEs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Performance
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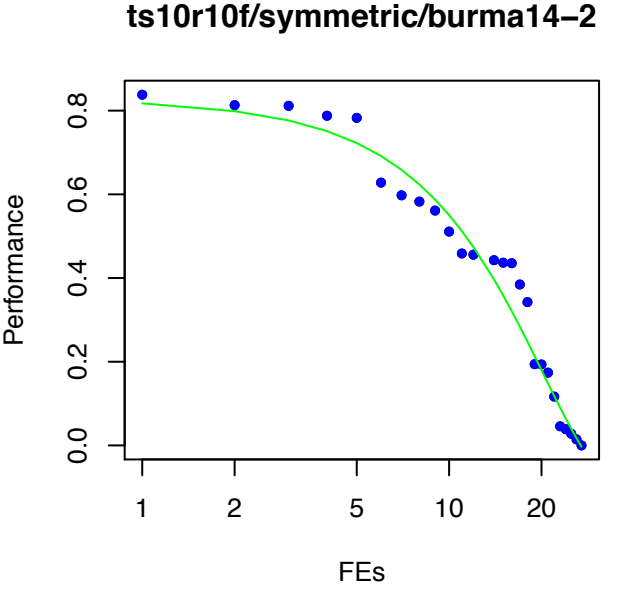
2
5
10
20
FEs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2
5
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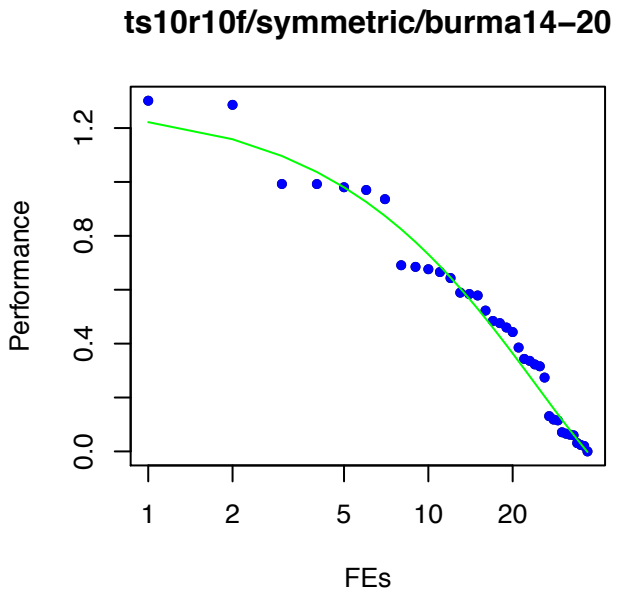
20
FEs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Performance
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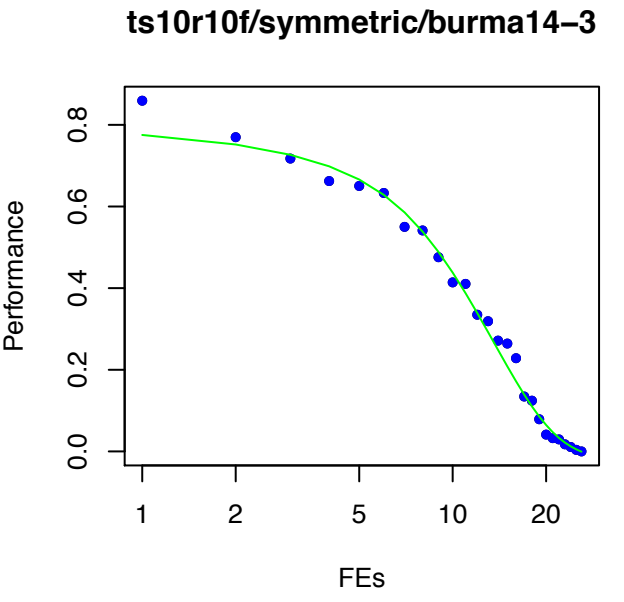
5
10
20
FEs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Performance
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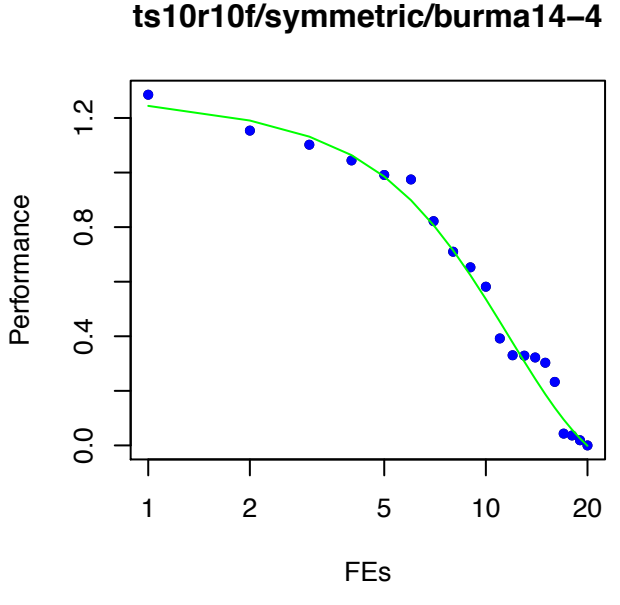
0.4
0.6
0.8
1
2
5
10
20
FEs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Performance
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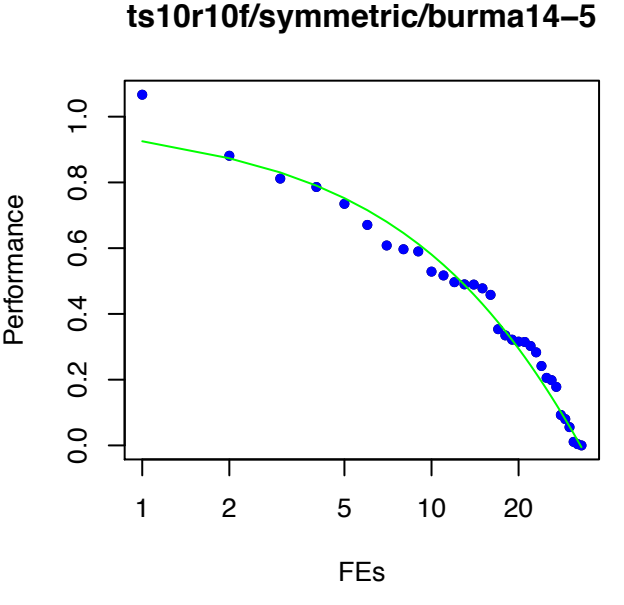
2
5
10
20
FEs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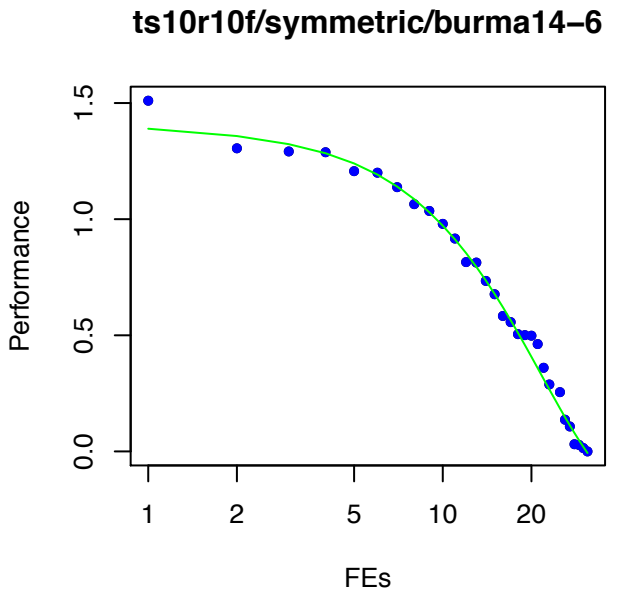
2
5
10
20
FEs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Performance
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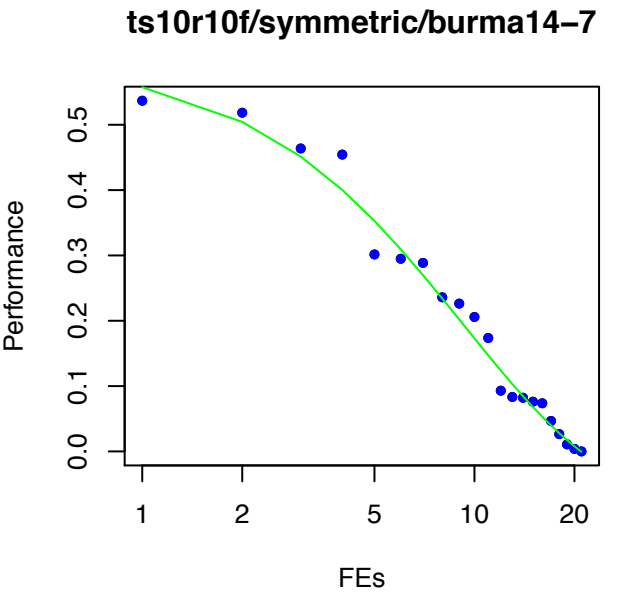
FEs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5
10
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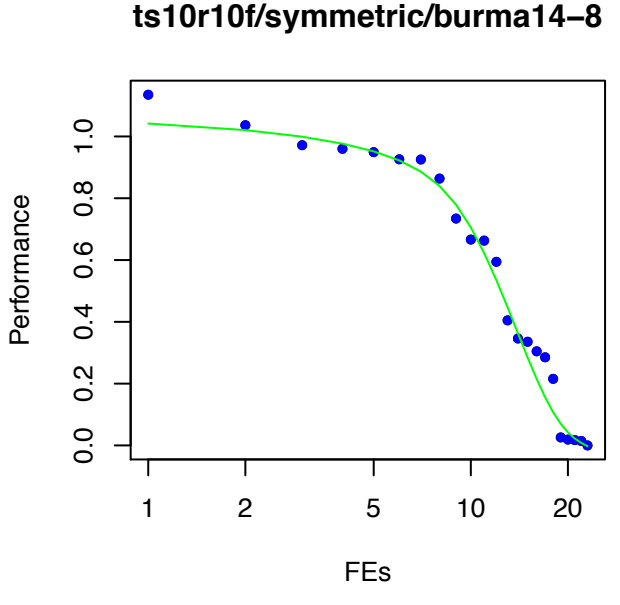
FEs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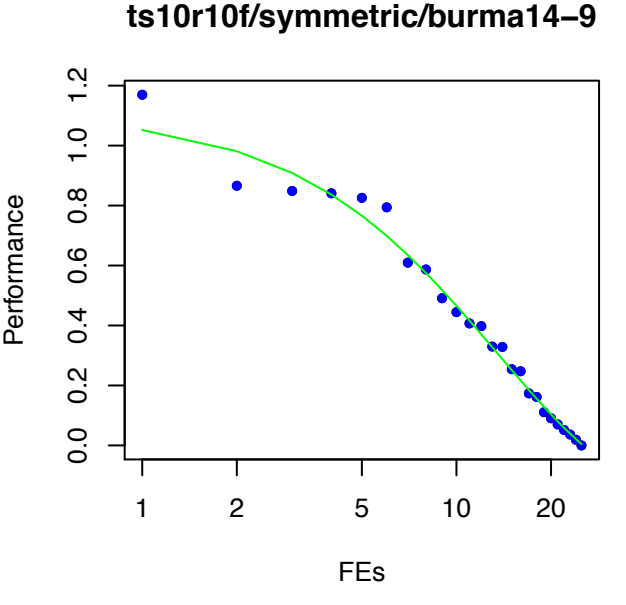
10
20
FEs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Performance
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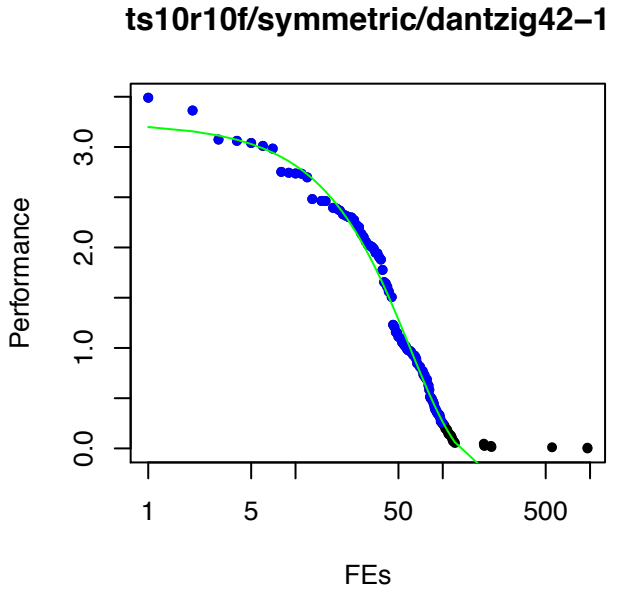
20
FEs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Performance
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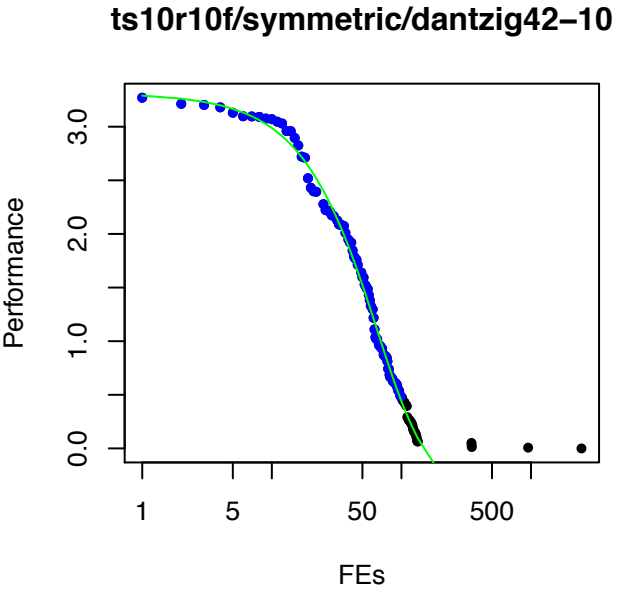
FEs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Performance
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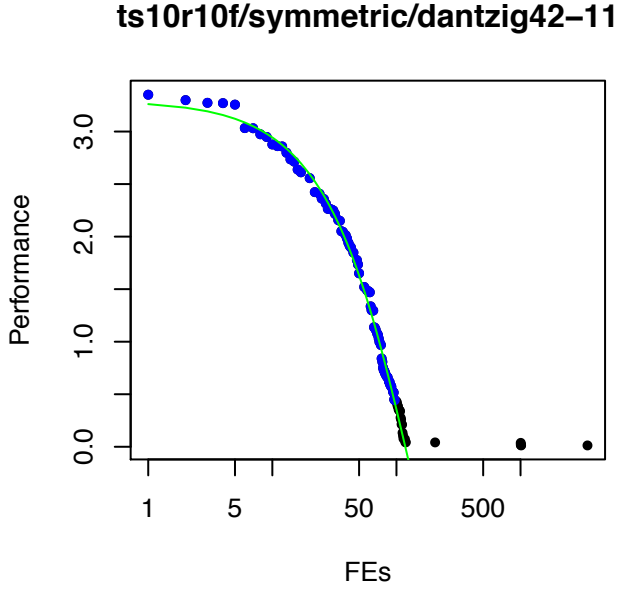
FEs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Performance
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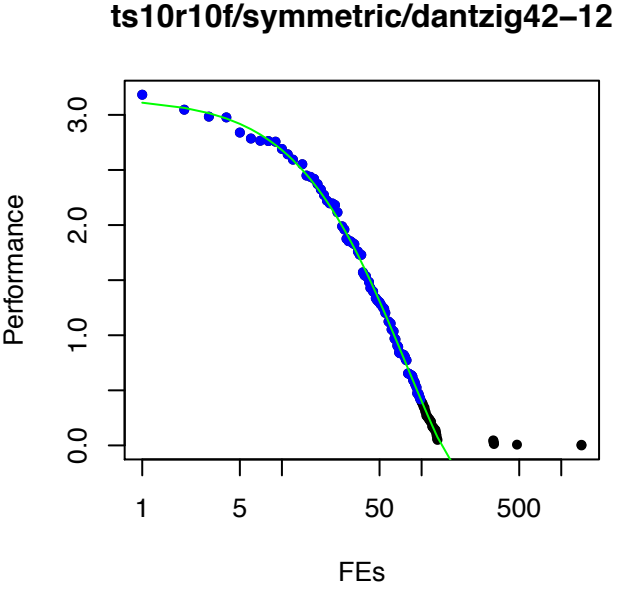
FEs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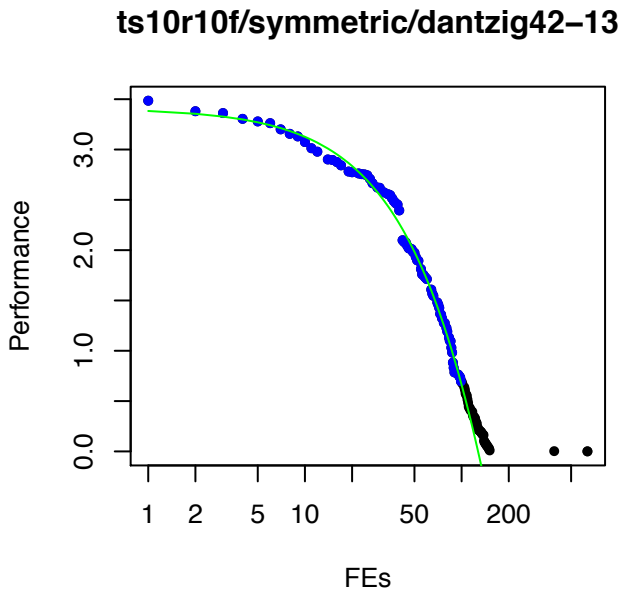
FEs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Performance
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1
2
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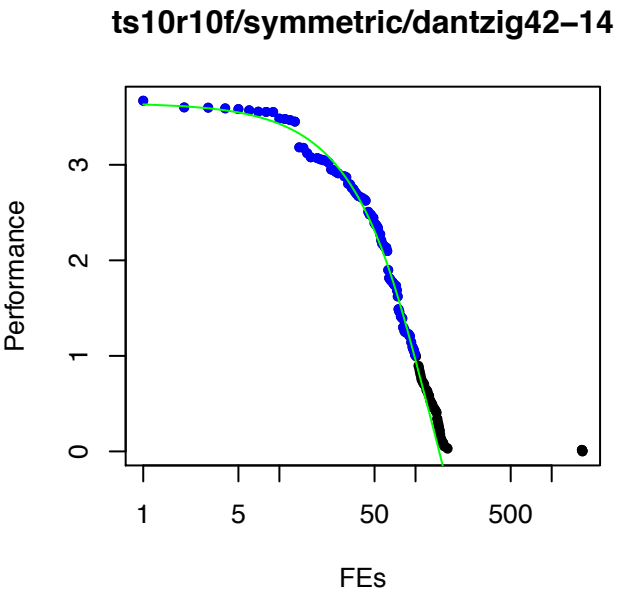
10
50
200
FEs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Performance
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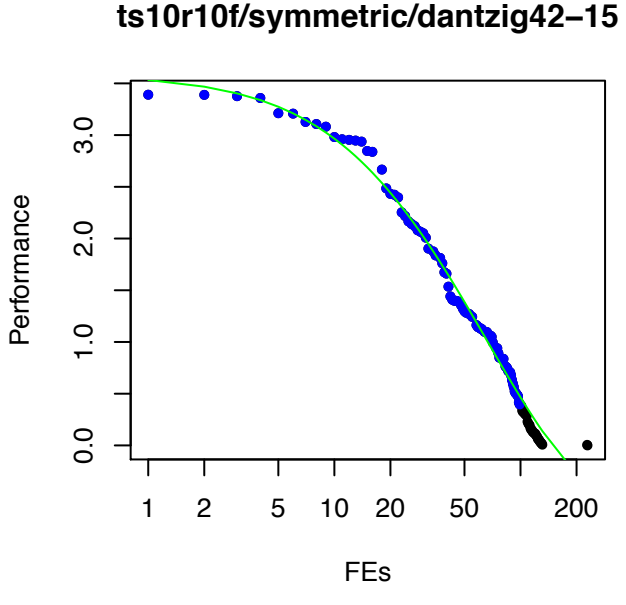
FEs


ts10r10f/symmetric/dantzig42−15
Performance
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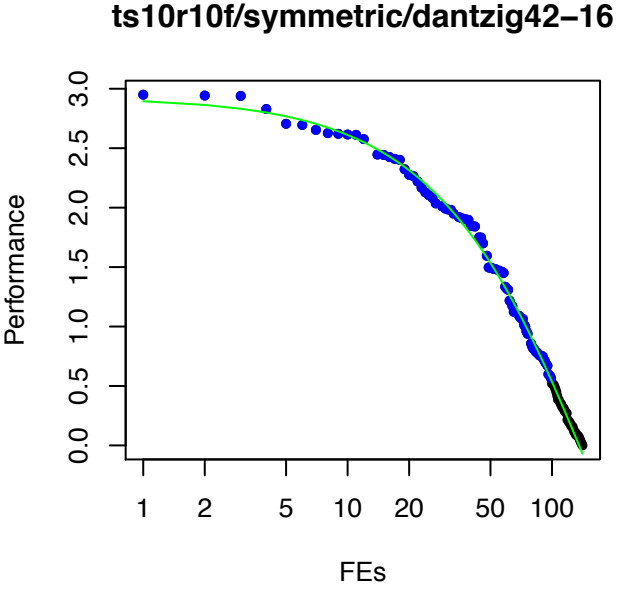
50
200
FEs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Performance
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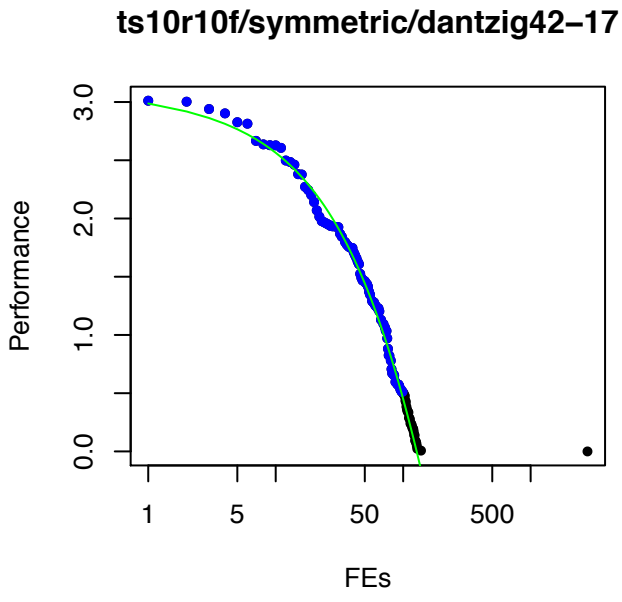
100
FEs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Performance
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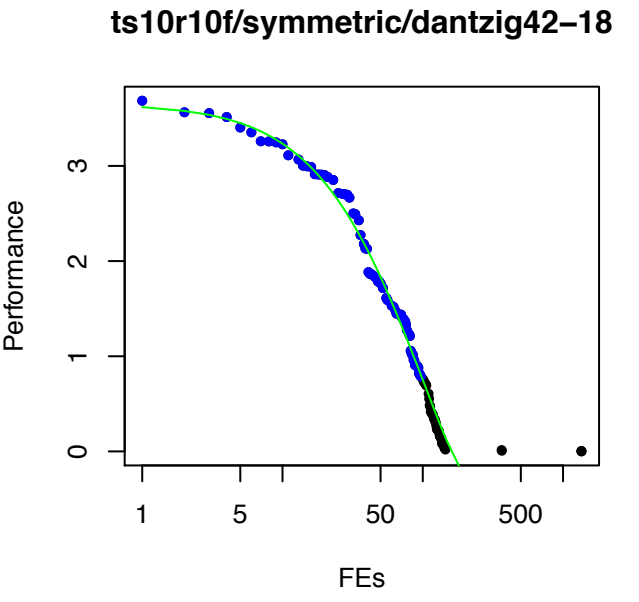
FEs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Performance
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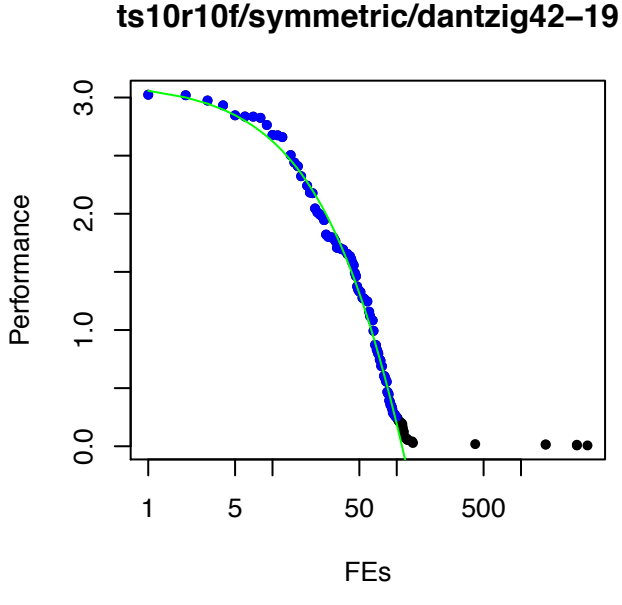
FEs


ts10r10f/symmetric/dantzig42−19
Performance
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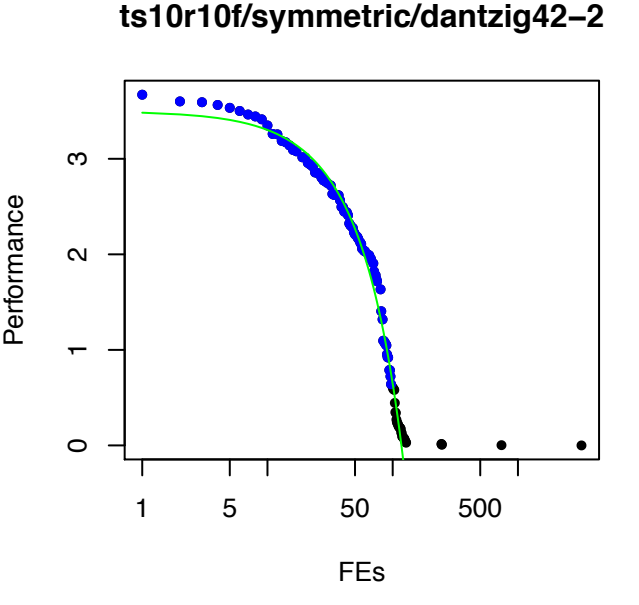
FEs


ts10r10f/symmetric/dantzig42−2
Performance
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1
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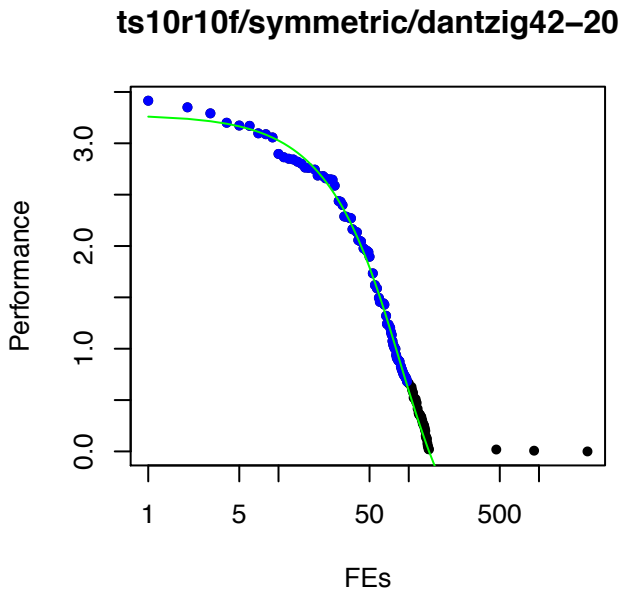
500
FEs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Performance
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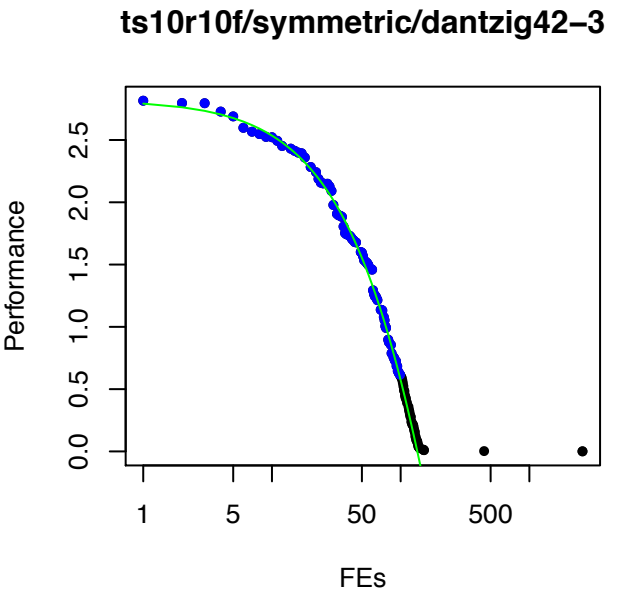
500
FEs


ts10r10f/symmetric/dantzig42−3
Performance
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1.0
1.5
2.0
2.5
1
5
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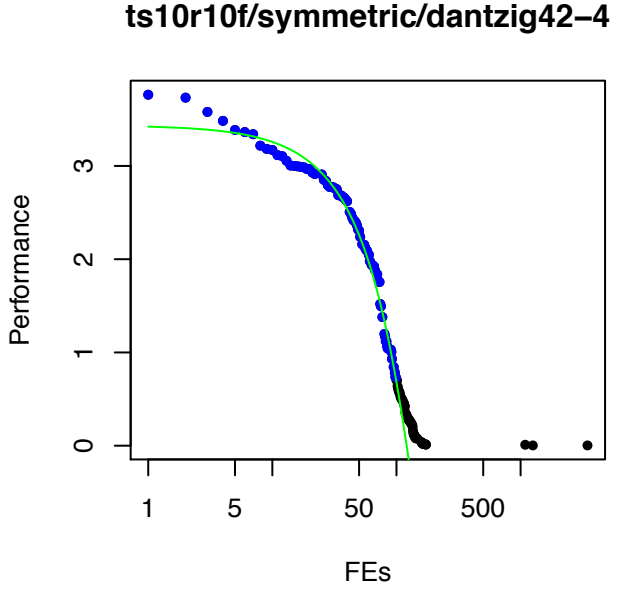
500
FEs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Performance
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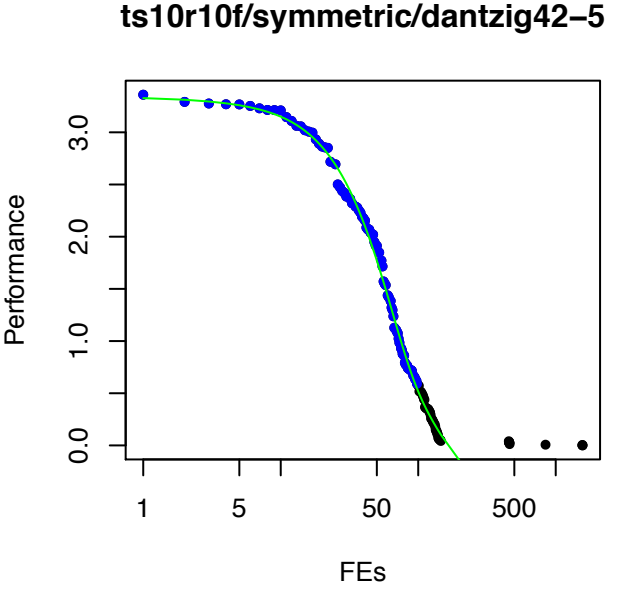
2
3
1
5
50
500
FEs


ts10r10f/symmetric/dantzig42−5
Performance
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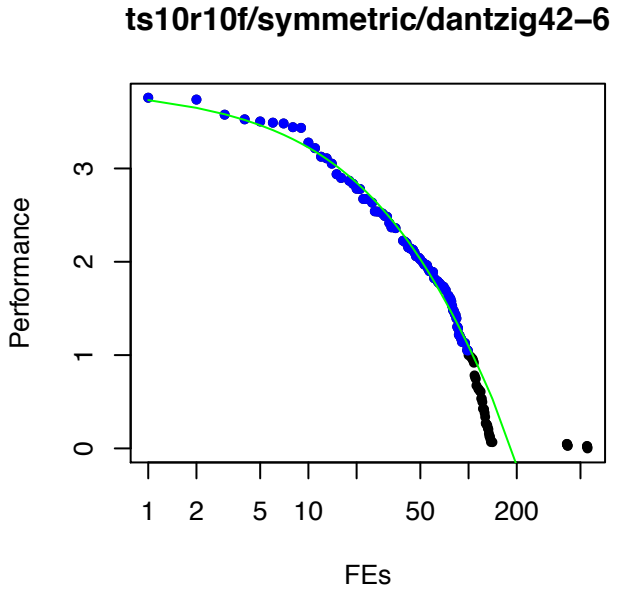
1.0
2.0
3.0
1
5
50
500
FEs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Performance
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1
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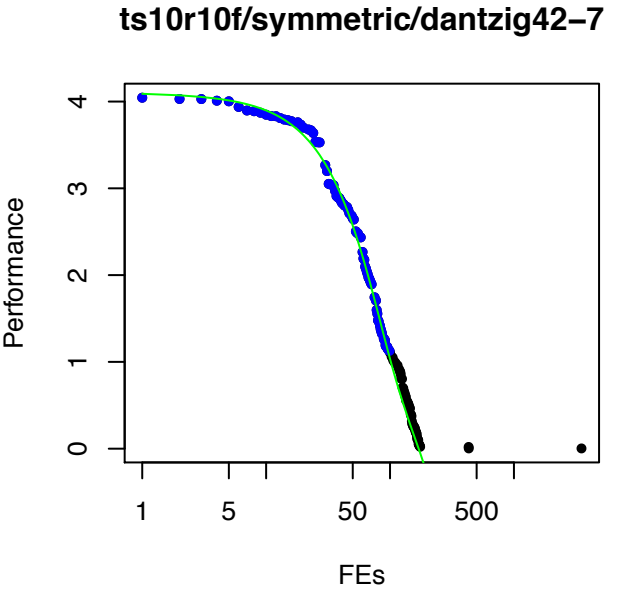
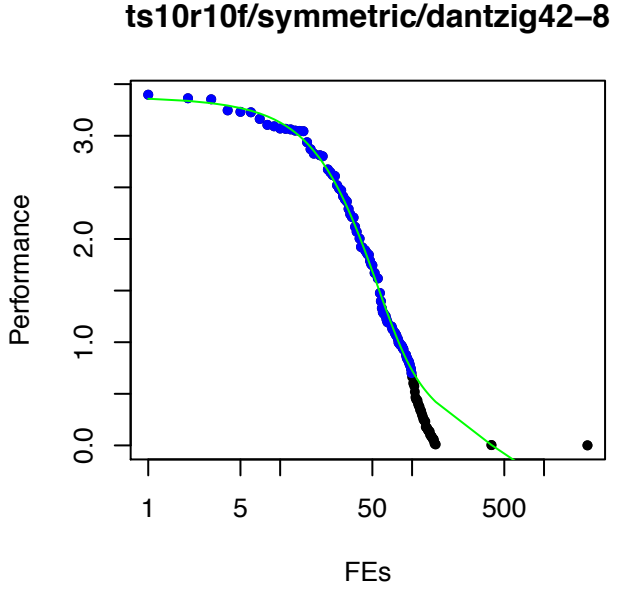
3
1
2
5
10
50
200
FEs


ts10r10f/symmetric/dantzig42−7
Performance
0
1
2
3
4
1
5
50
500
FEs


ts10r10f/symmetric/dantzig42−8
Performance
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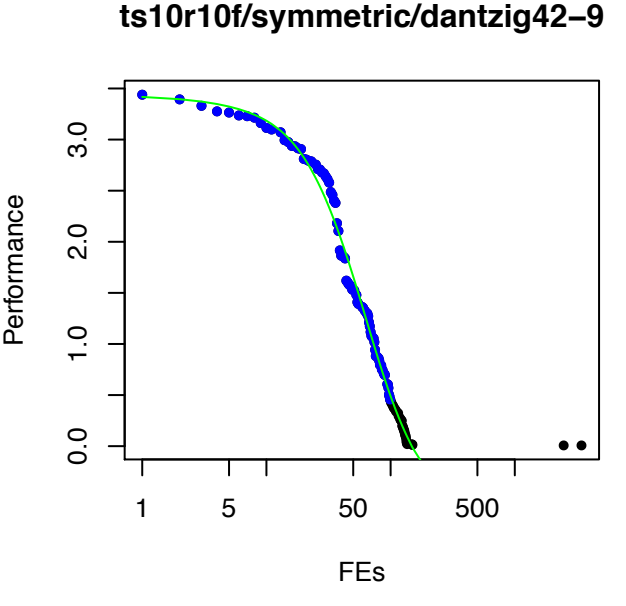
1.0
2.0
3.0
1
5
50
500
FEs


ts10r10f/symmetric/dantzig42−9
Performance
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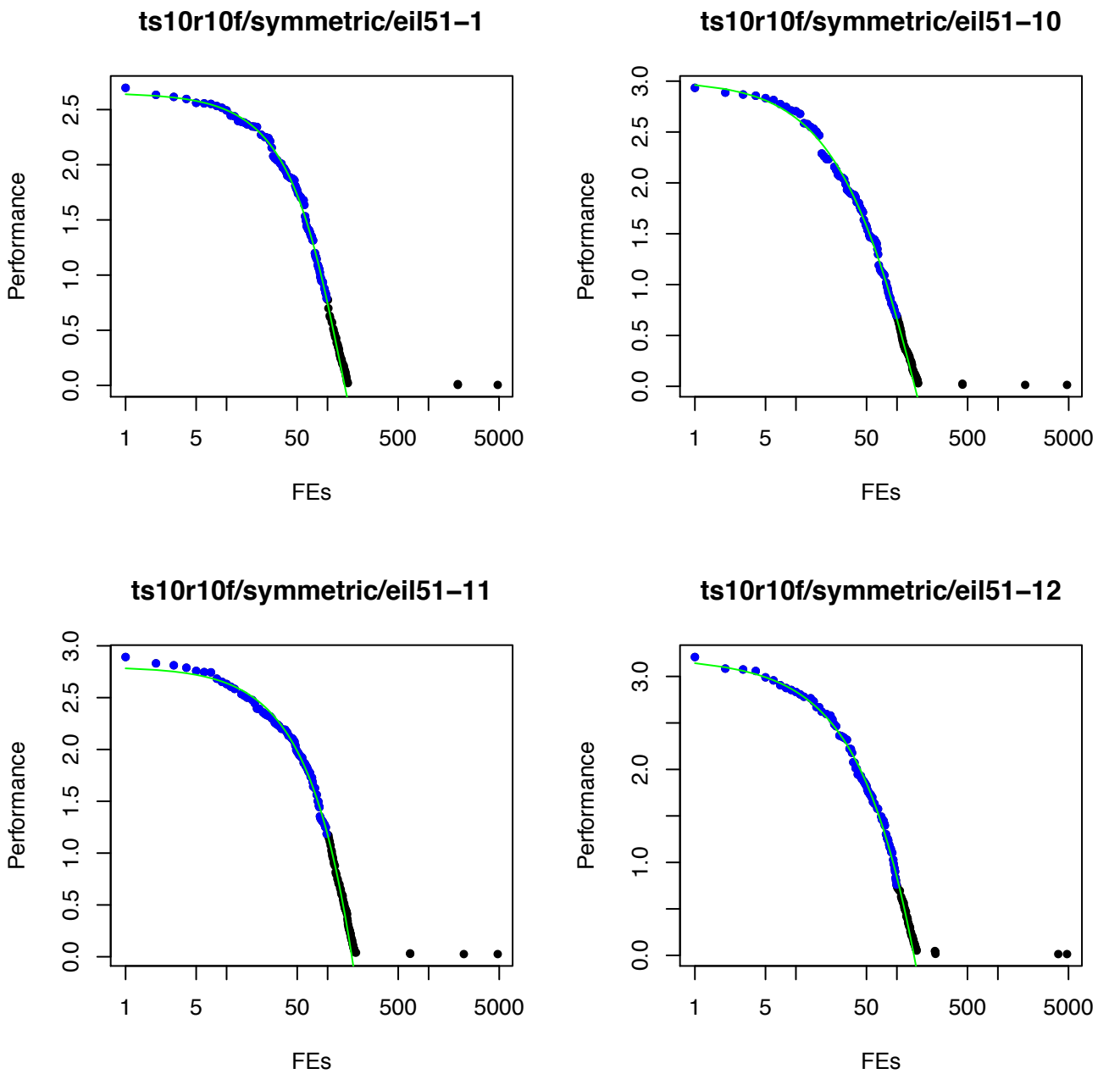
1.0
2.0
3.0
1
5
50
500
FEs


ts10r10f/symmetric/eil51−1
ts10r10f/symmetric/eil51−10
ts10r10f/symmetric/eil51−11
ts10r10f/symmetric/eil51−12
Performance
FEs
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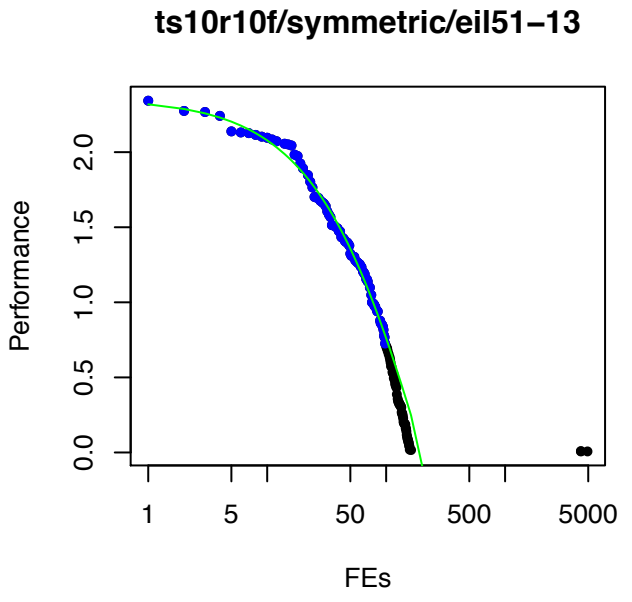
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000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Performance
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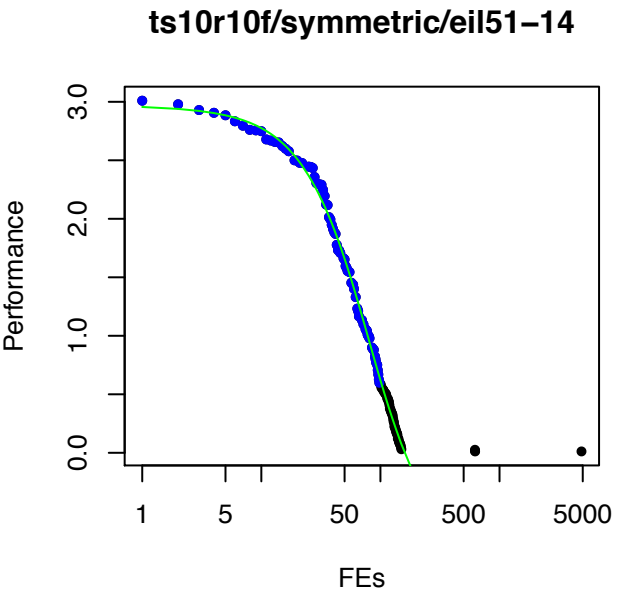
2.0
1
5
50
500
5000
FEs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Performance
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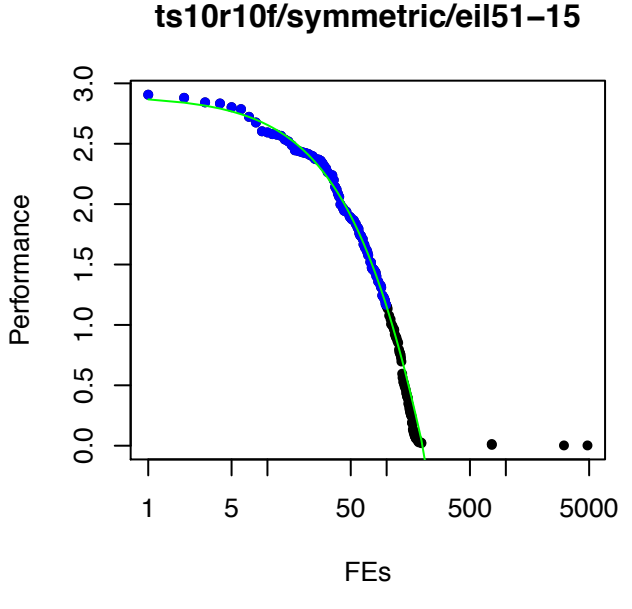
1.0
2.0
3.0
1
5
50
500
5000
FEs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Performance
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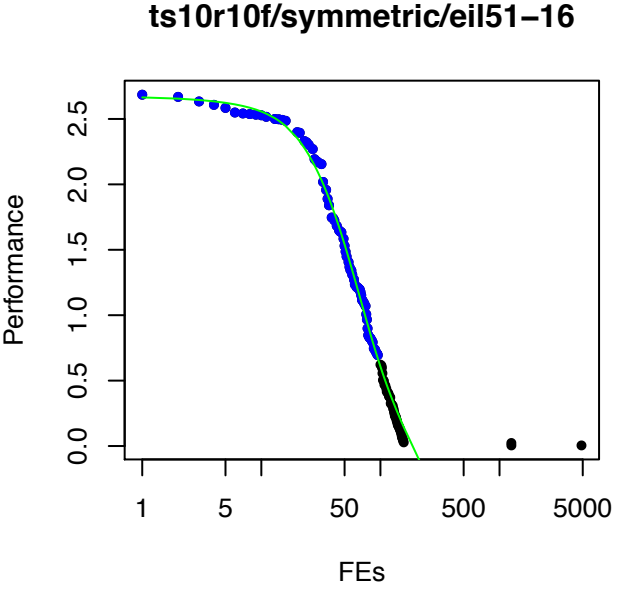
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts10r10f/symmetric/eil51−16
Performance
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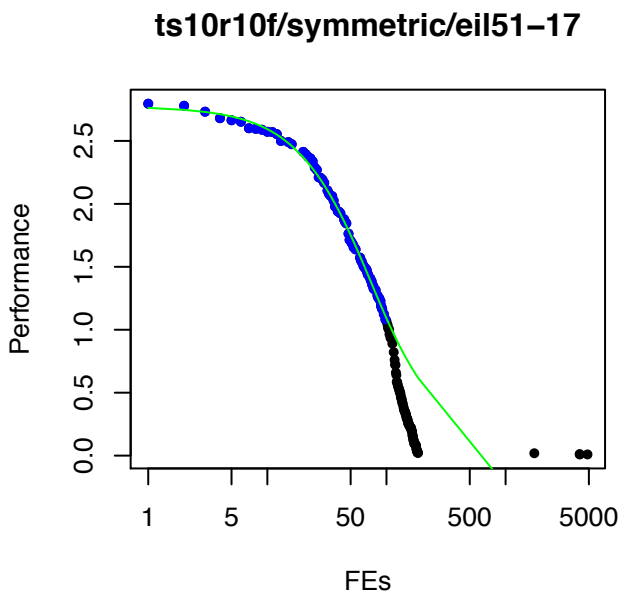
0.5
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts10r10f/symmetric/eil51−17
Performance
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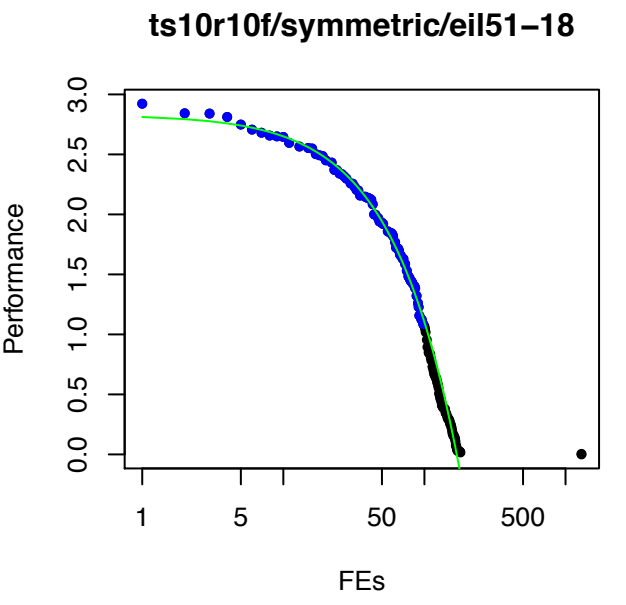
0.5
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs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Performance
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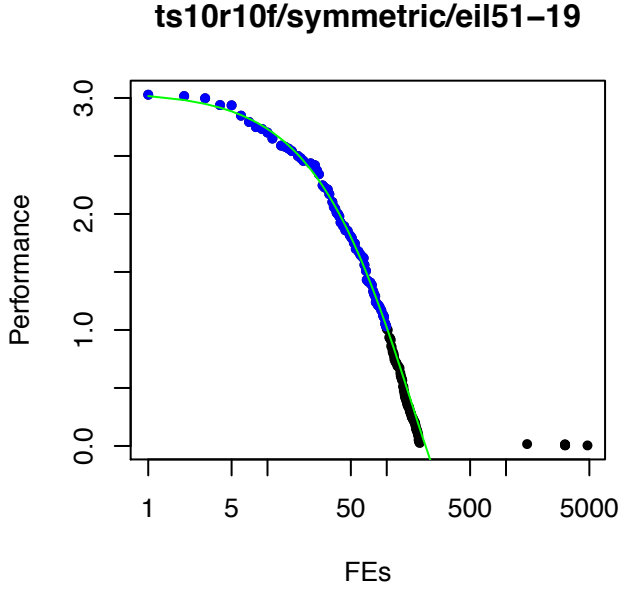
1.0
1.5
2.0
2.5
3.0
1
5
50
500
FEs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Performance
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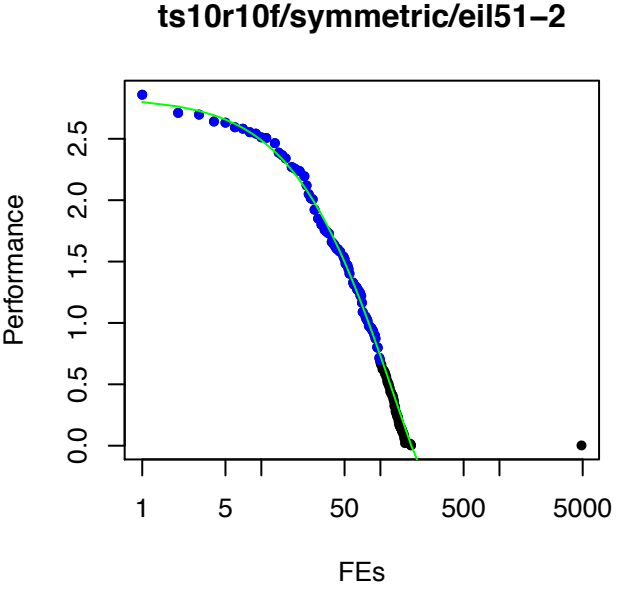
2.0
3.0
1
5
50
500
5000
FEs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Performance
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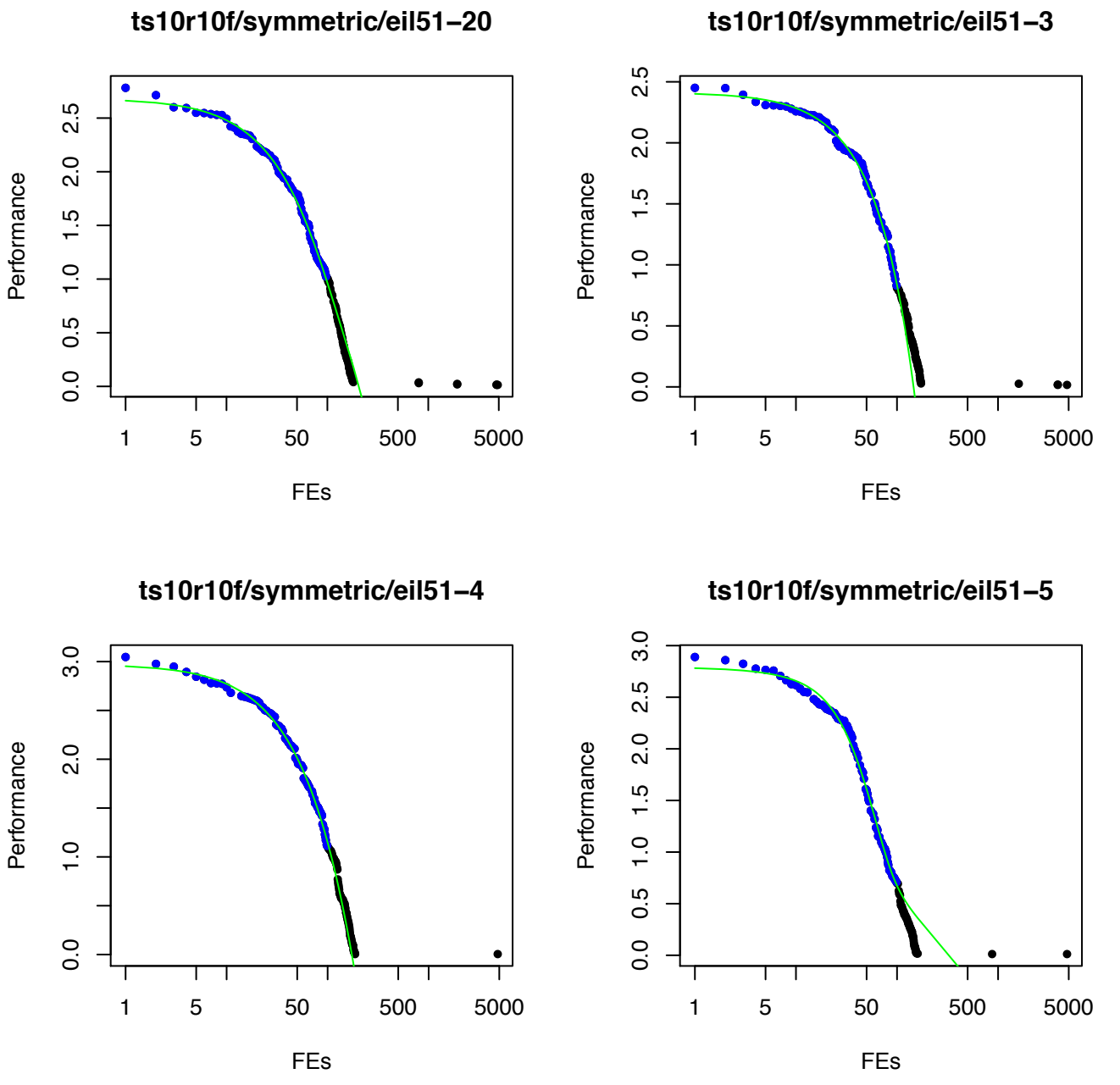
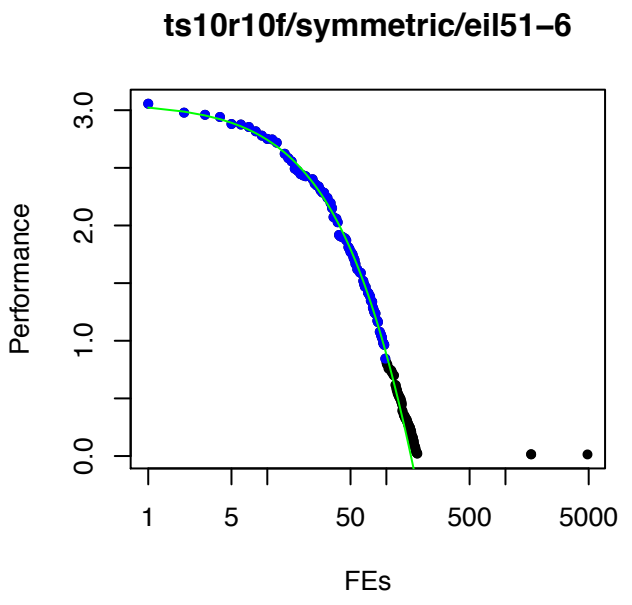
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts10r10f/symmetric/eil51−20
ts10r10f/symmetric/eil51−3
ts10r10f/symmetric/eil51−4
ts10r10f/symmetric/eil51−5
Performance
FEs
1
5
50
500
5000
0.0
0.5
1.0
1.5
2.0
2.5
3.0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Performance
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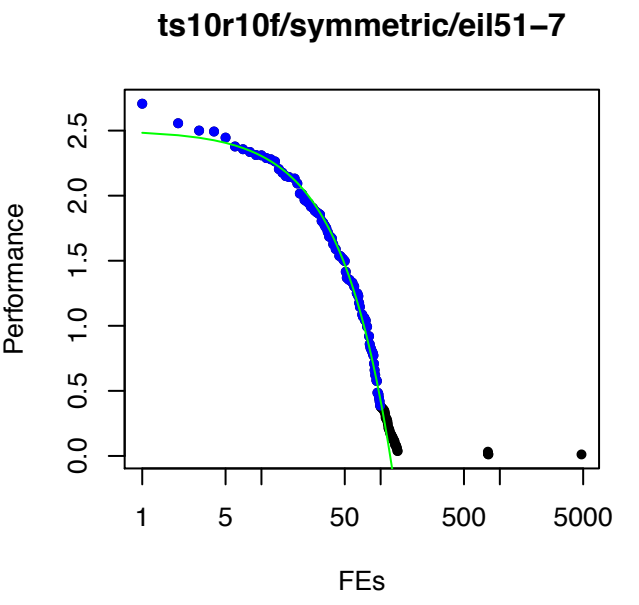
1.0
2.0
3.0
1
5
50
500
5000
FEs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Performance
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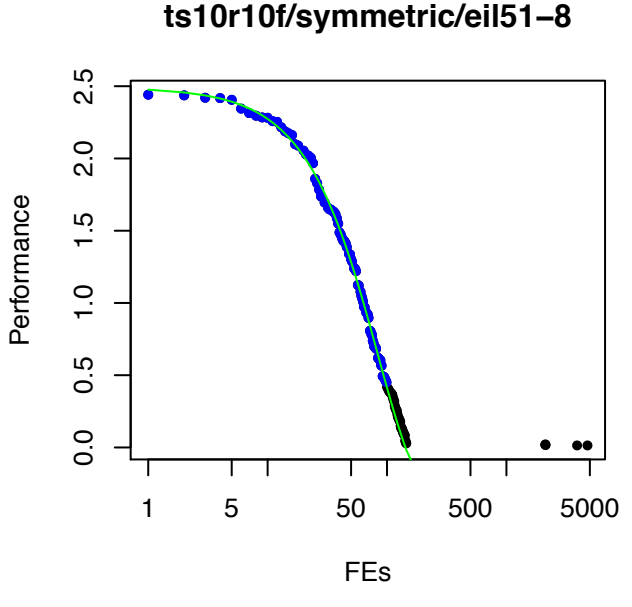
1.5
2.0
2.5
1
5
50
500
5000
FEs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Performance
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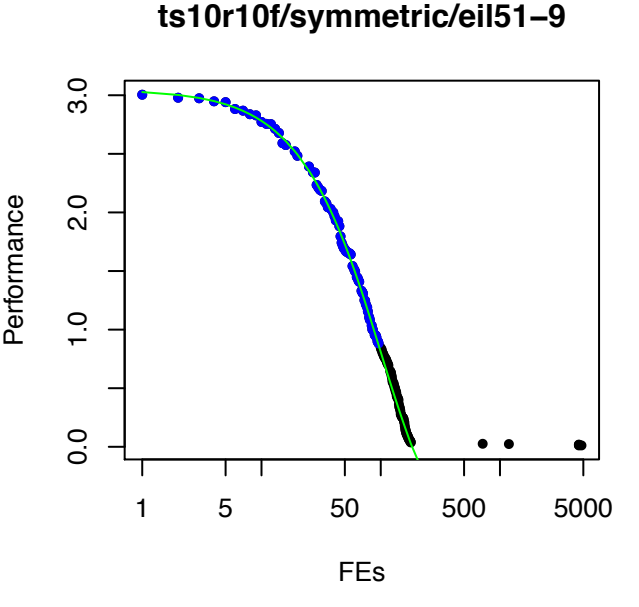
1.5
2.0
2.5
1
5
50
500
5000
FEs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Performance
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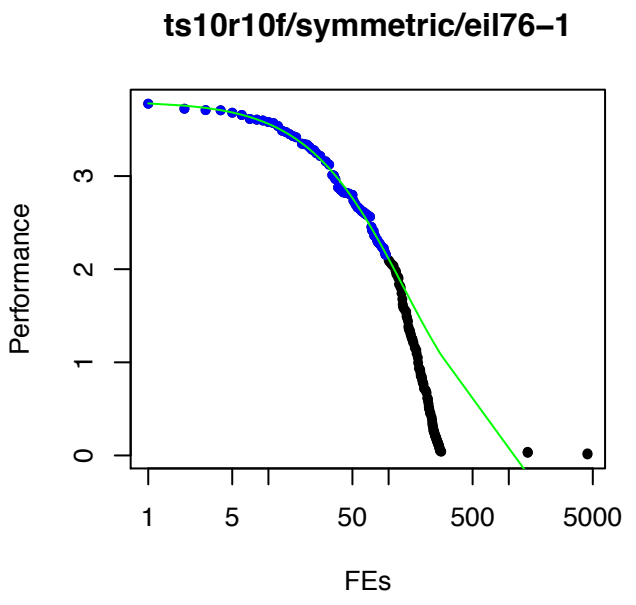
2.0
3.0
1
5
50
500
5000
FEs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Performance
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2
3
1
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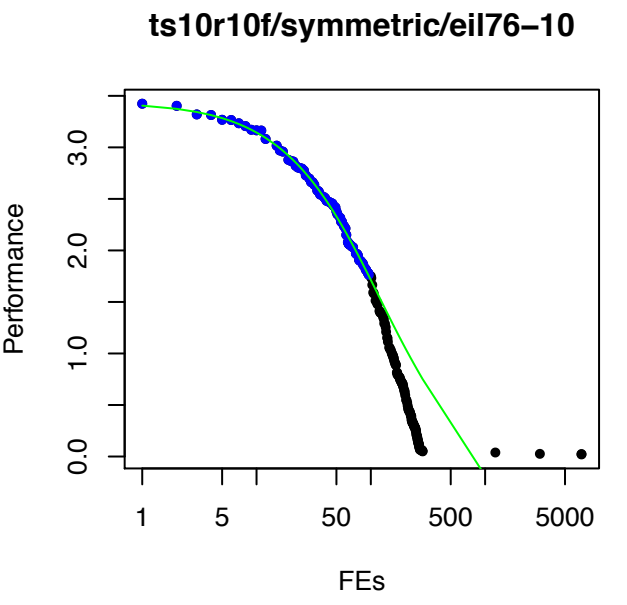
50
500
5000
FEs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Performance
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3.0
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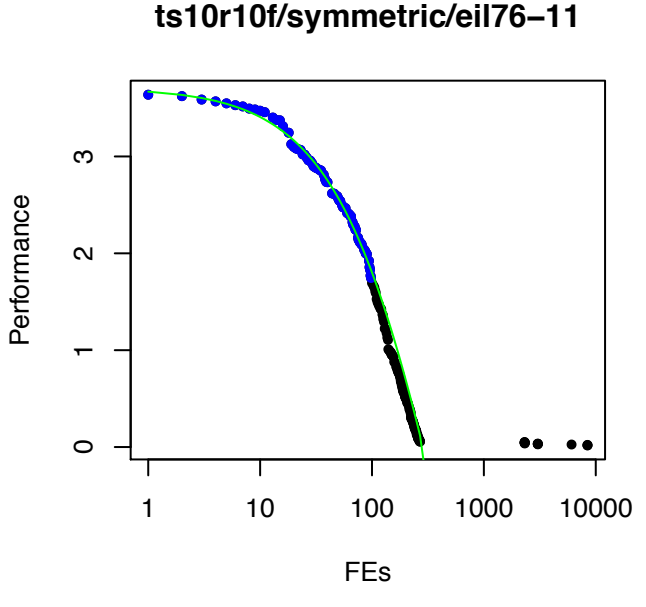
500
5000
FEs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Performance
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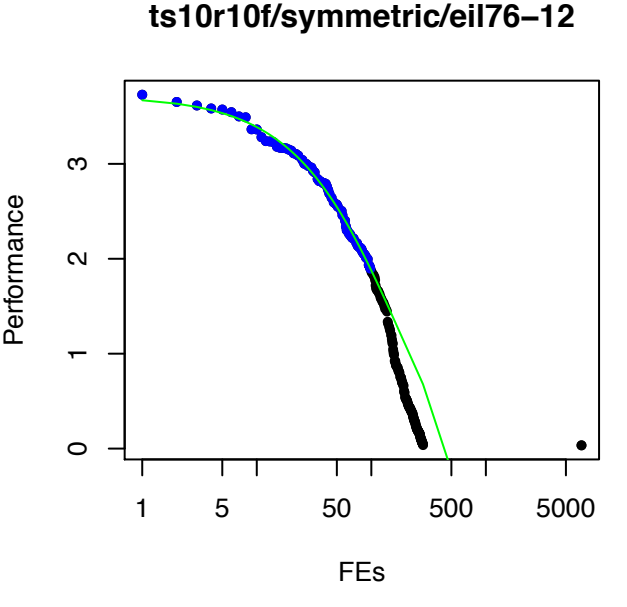
2
3
1
10
100
1000
10000
FEs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Performance
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2
3
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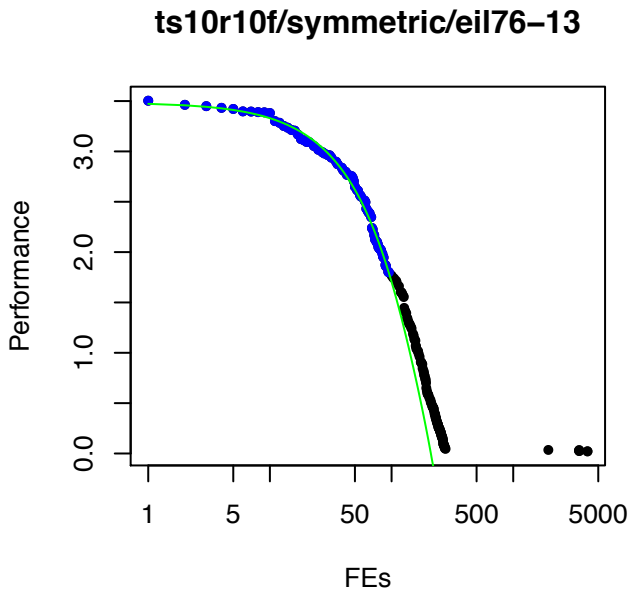
500
5000
FEs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Performance
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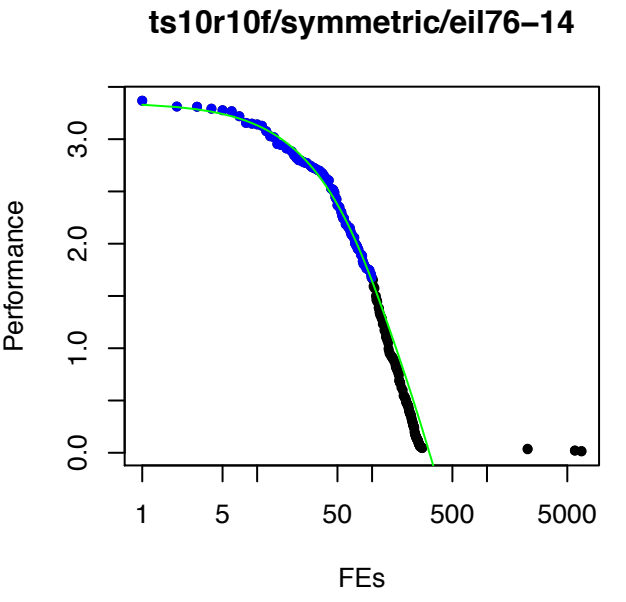
5000
FEs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Performance
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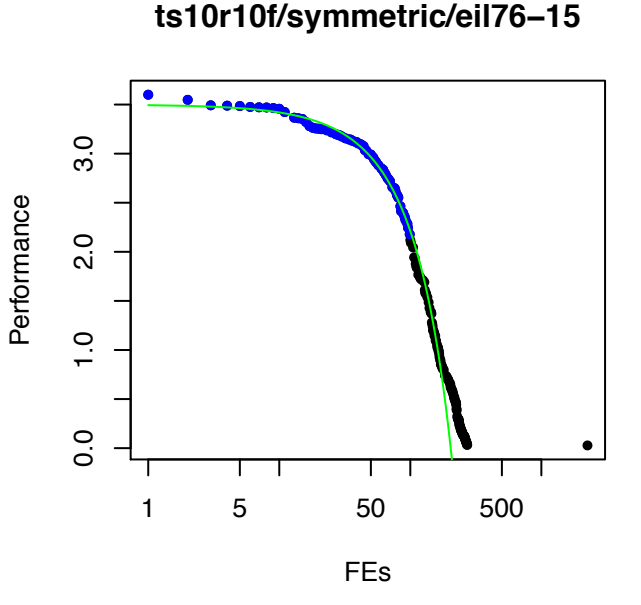
FEs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Performance
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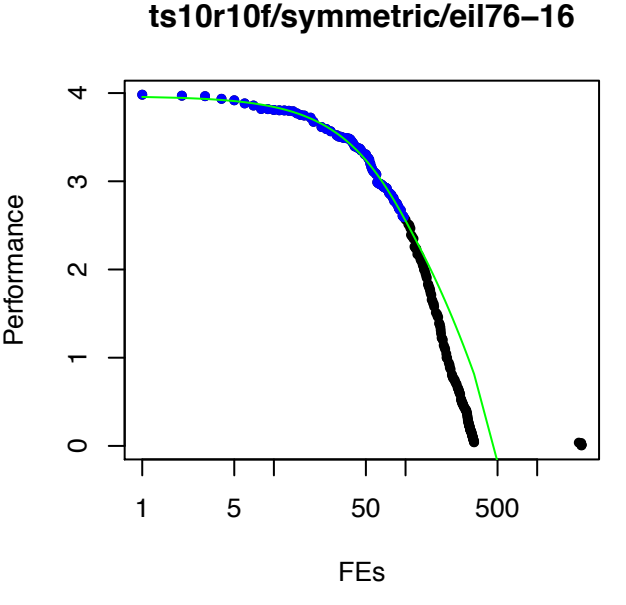
FEs


ts10r10f/symmetric/eil76−16
Performance
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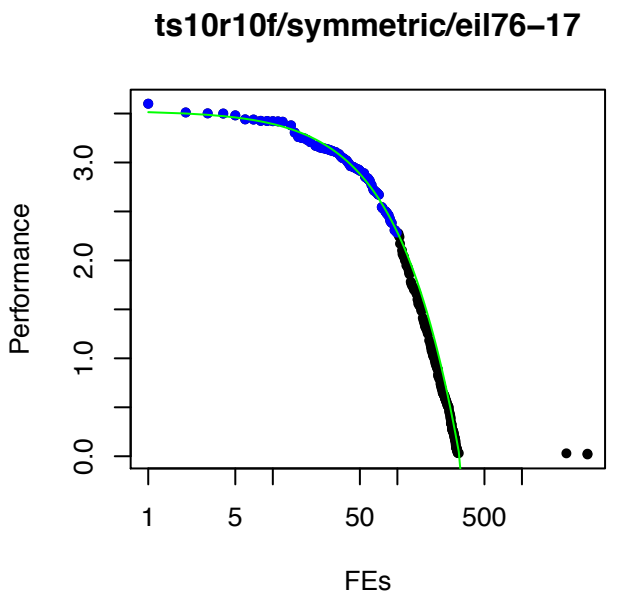
FEs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Performance
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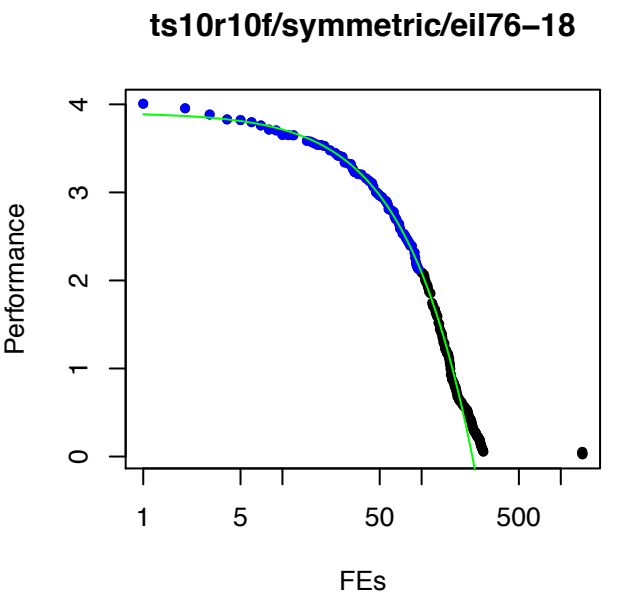
500
FEs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Performance
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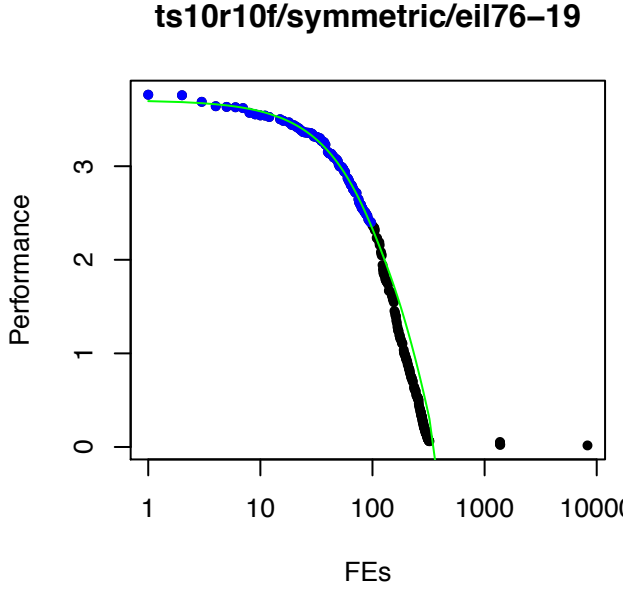
FEs


ts10r10f/symmetric/eil76−19
Performance
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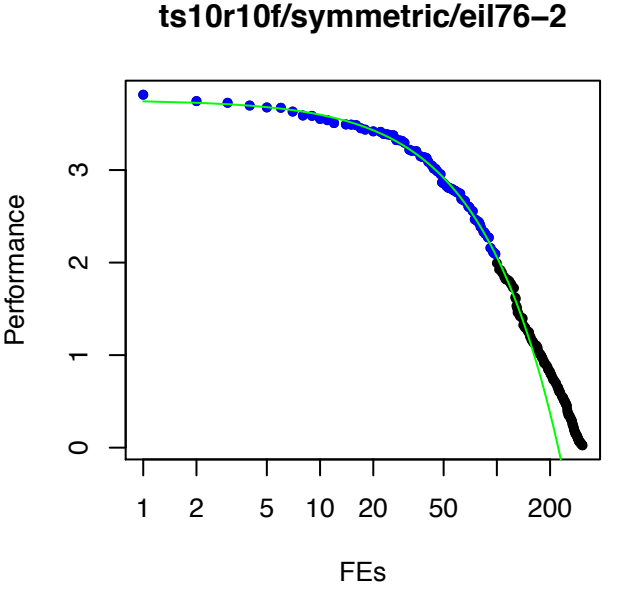
10000
FEs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Performance
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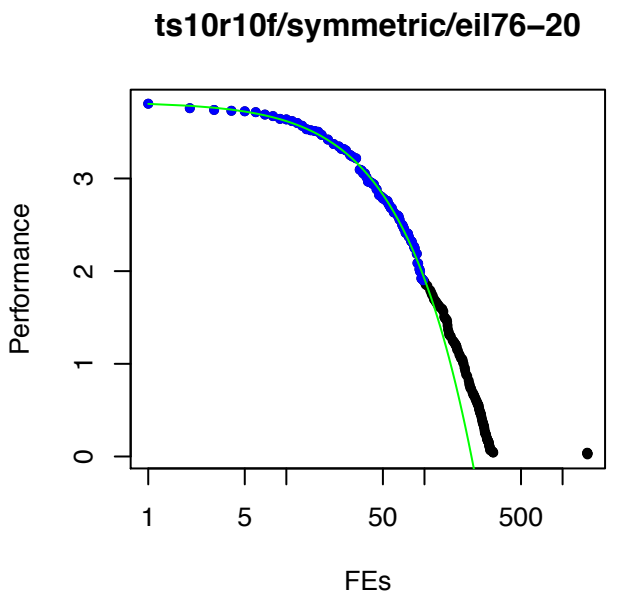
2
5
10
20
50
200
FEs


ts10r10f/symmetric/eil76−20
Performance
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2
3
1
5
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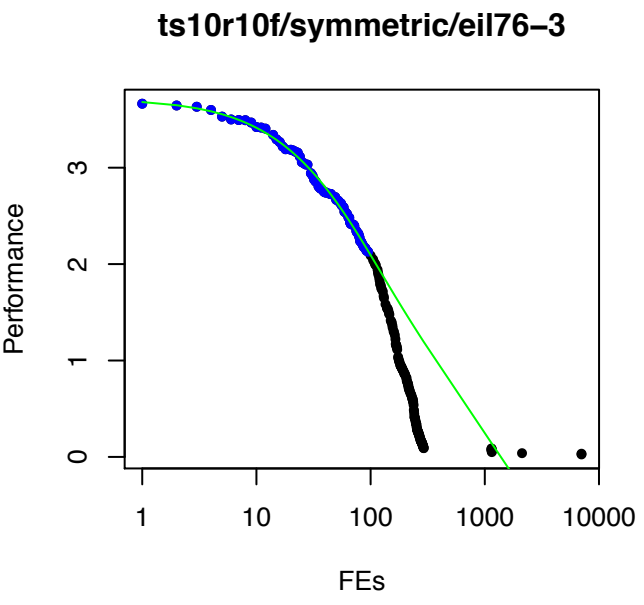
500
FEs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Performance
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2
3
1
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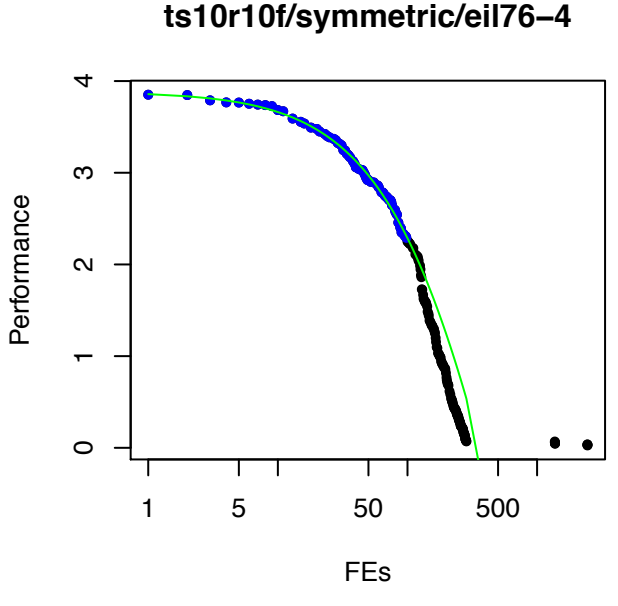
1000
10000
FEs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Performance
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3
4
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5
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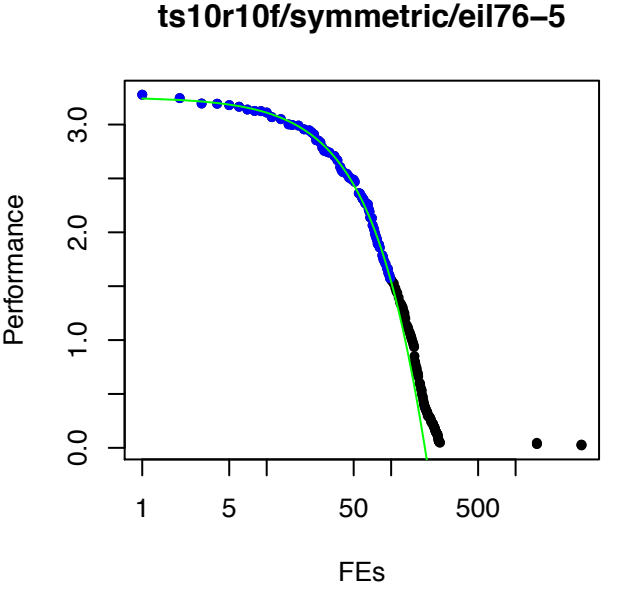
FEs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Performance
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2.0
3.0
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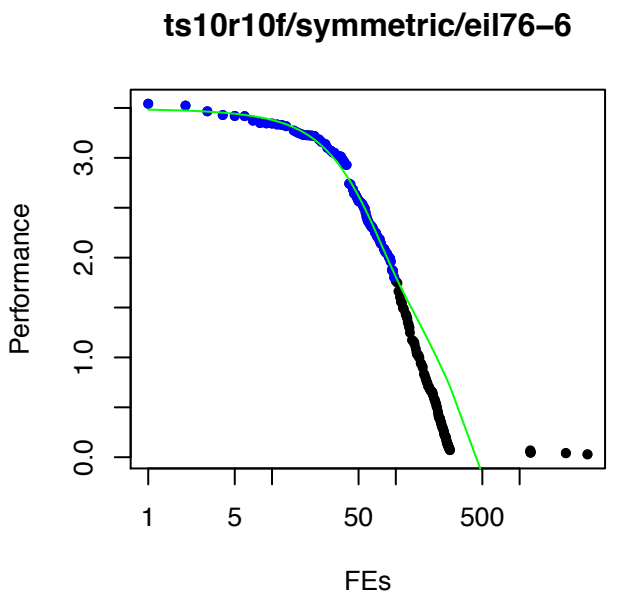
500
FEs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Performance
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2.0
3.0
1
5
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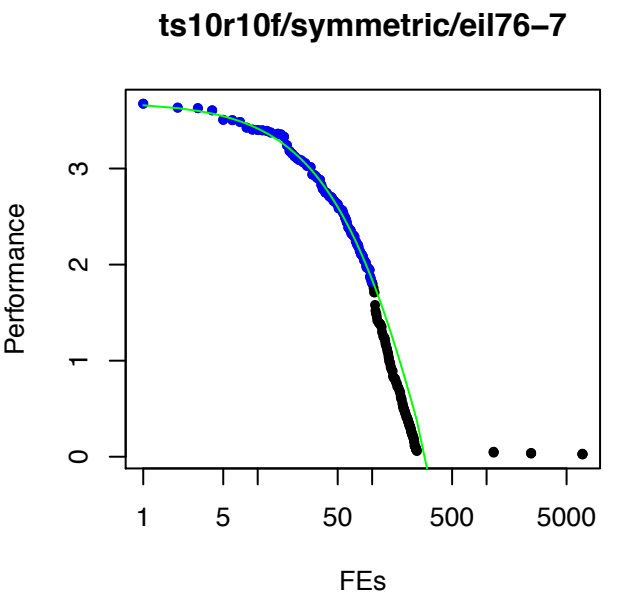
500
FEs


ts10r10f/symmetric/eil76−7
Performance
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2
3
1
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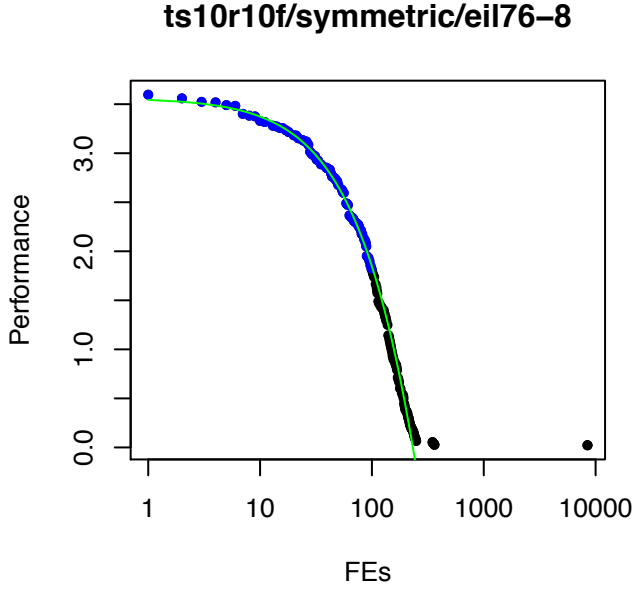
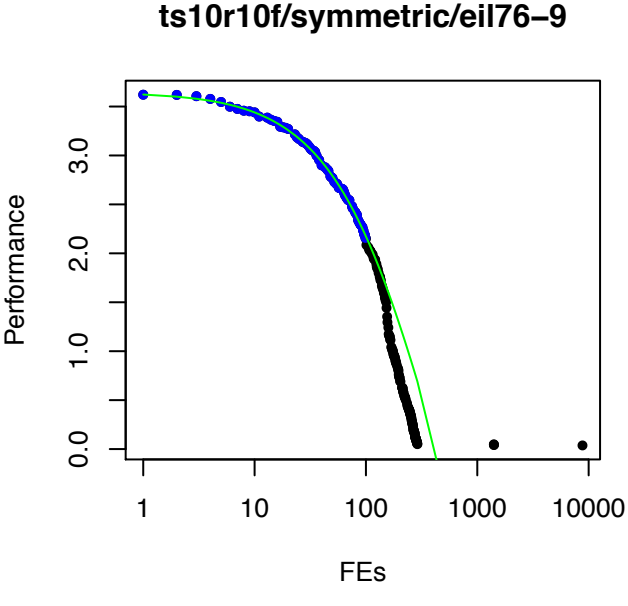
50
500
5000
FEs


ts10r10f/symmetric/eil76−8
Performance
0.0
1.0
2.0
3.0
1
10
100
1000
10000
FEs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1000
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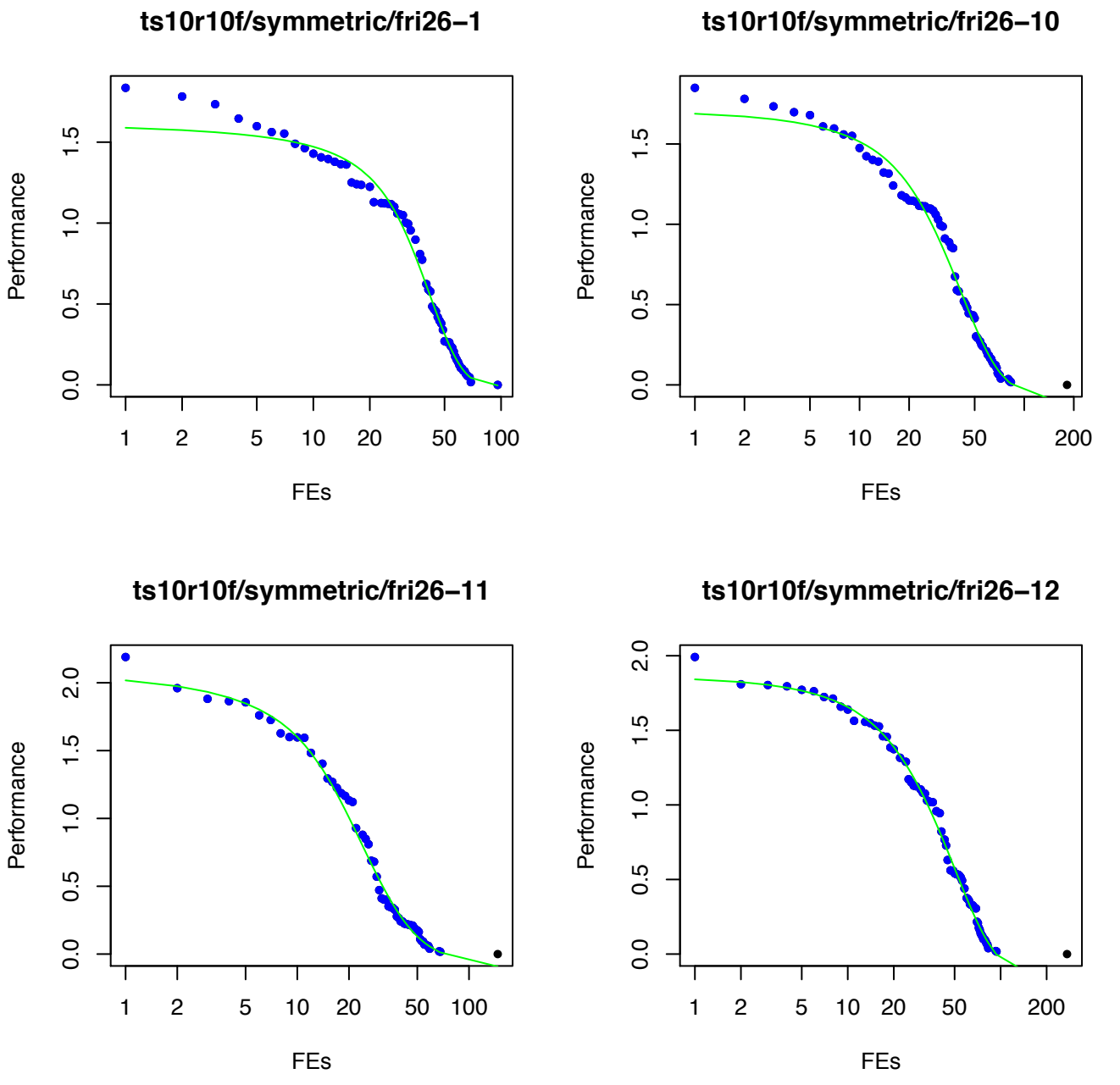
ts10r10f/symmetric/fri26−1
ts10r10f/symmetric/fri26−10
ts10r10f/symmetric/fri26−11
ts10r10f/symmetric/fri26−12
Performance
FEs
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1
2
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20
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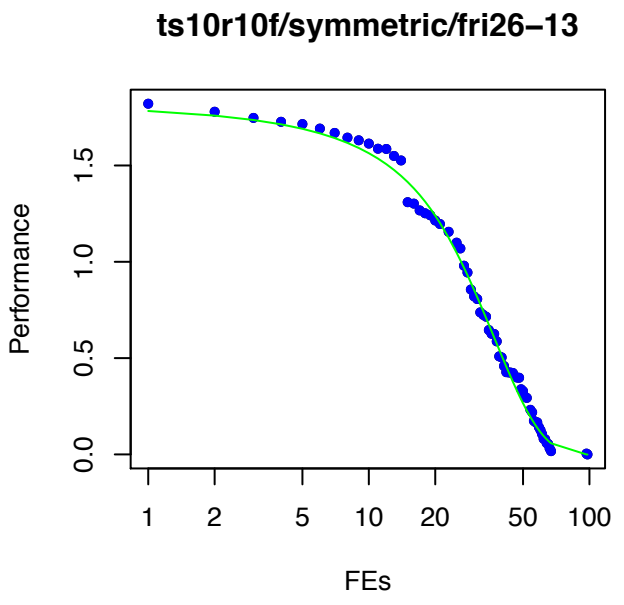
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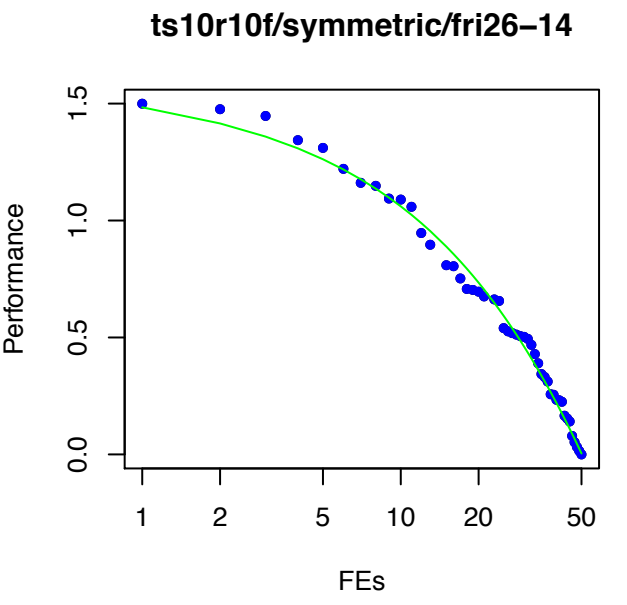
FEs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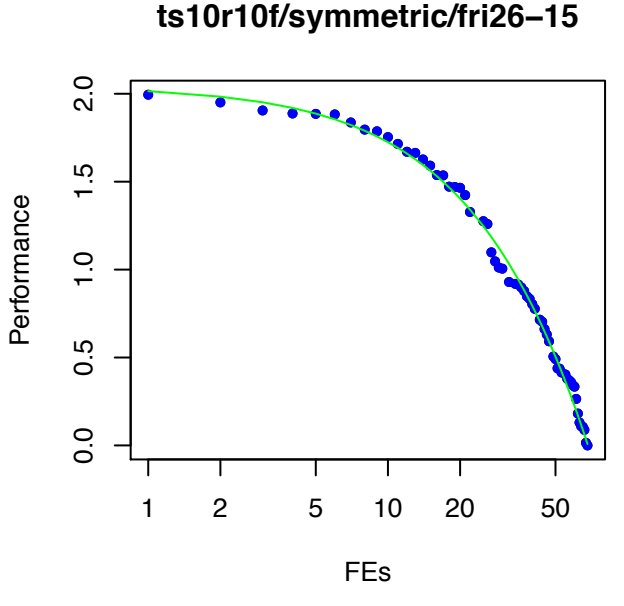
ts10r10f/symmetric/fri26−15
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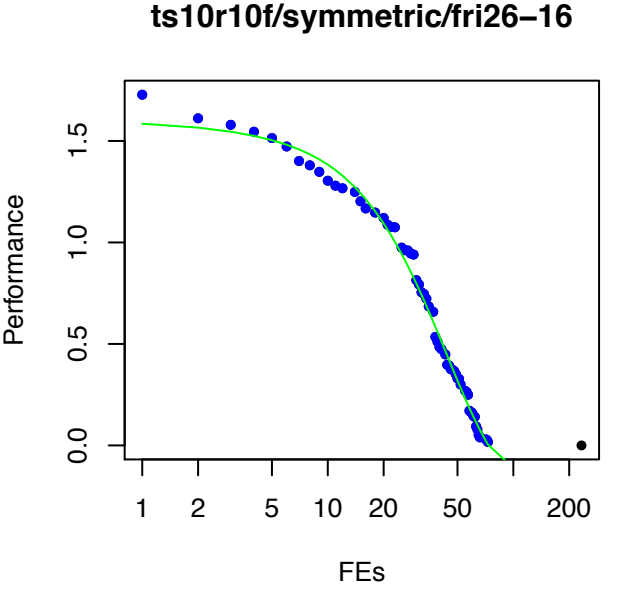
FEs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Performance
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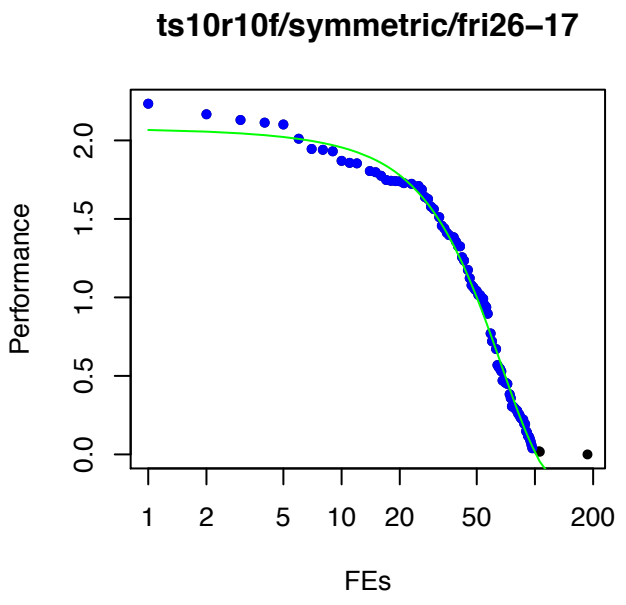
FEs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2
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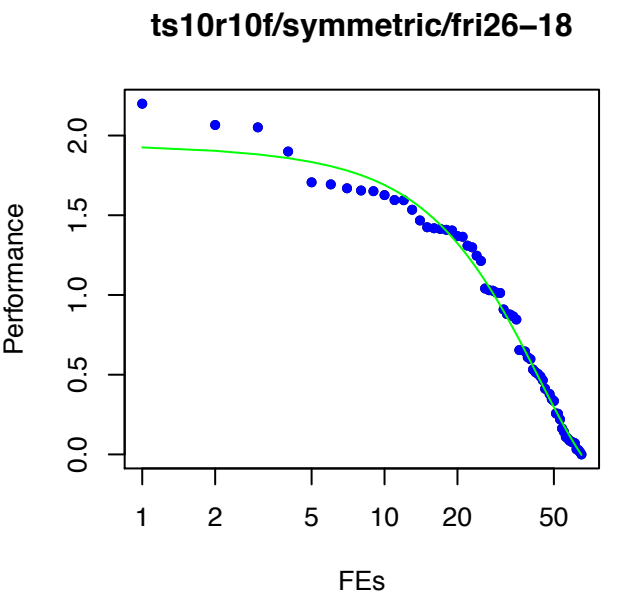
FEs


ts10r10f/symmetric/fri26−18
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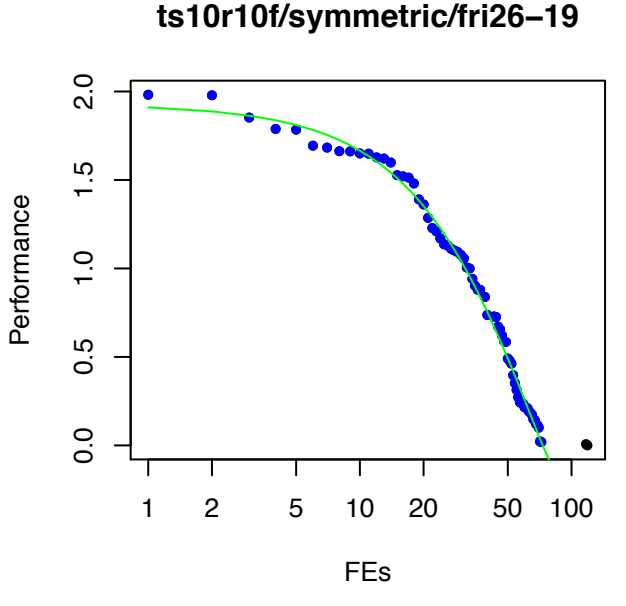
FEs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2
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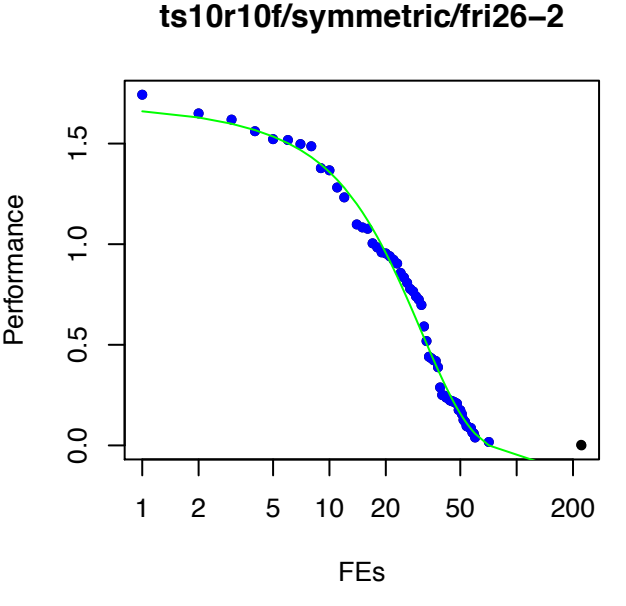
FEs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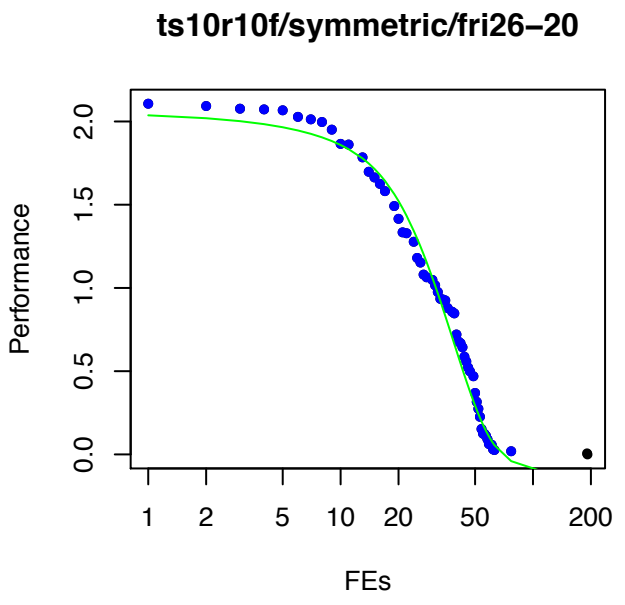
FEs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2
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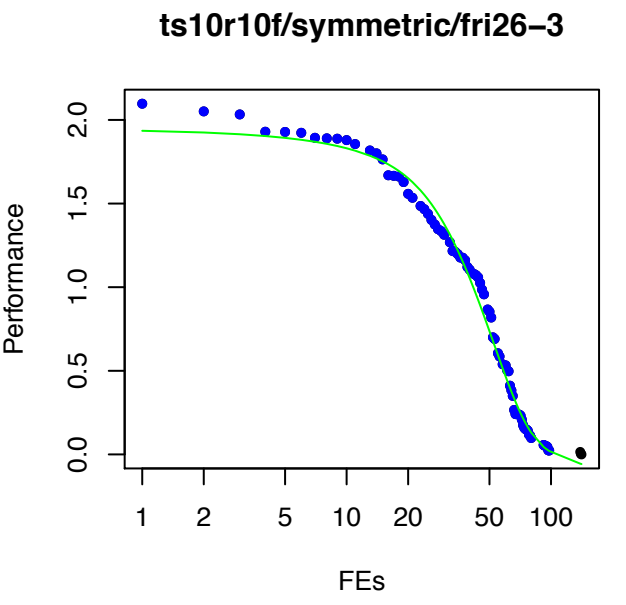
200
FEs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2
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20
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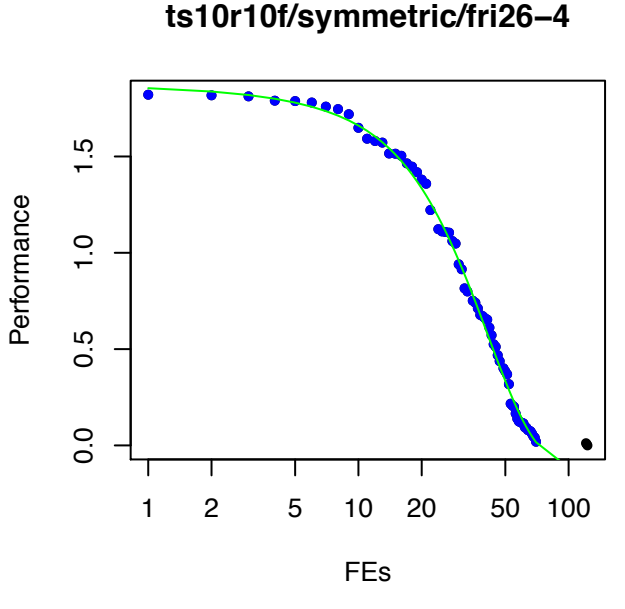
100
FEs


ts10r10f/symmetric/fri26−4
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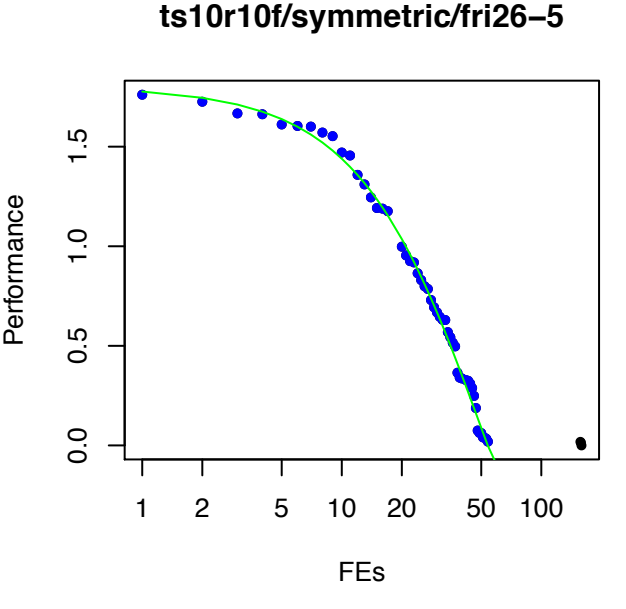
1.5
1
2
5
10
20
50
100
FEs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2
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10
20
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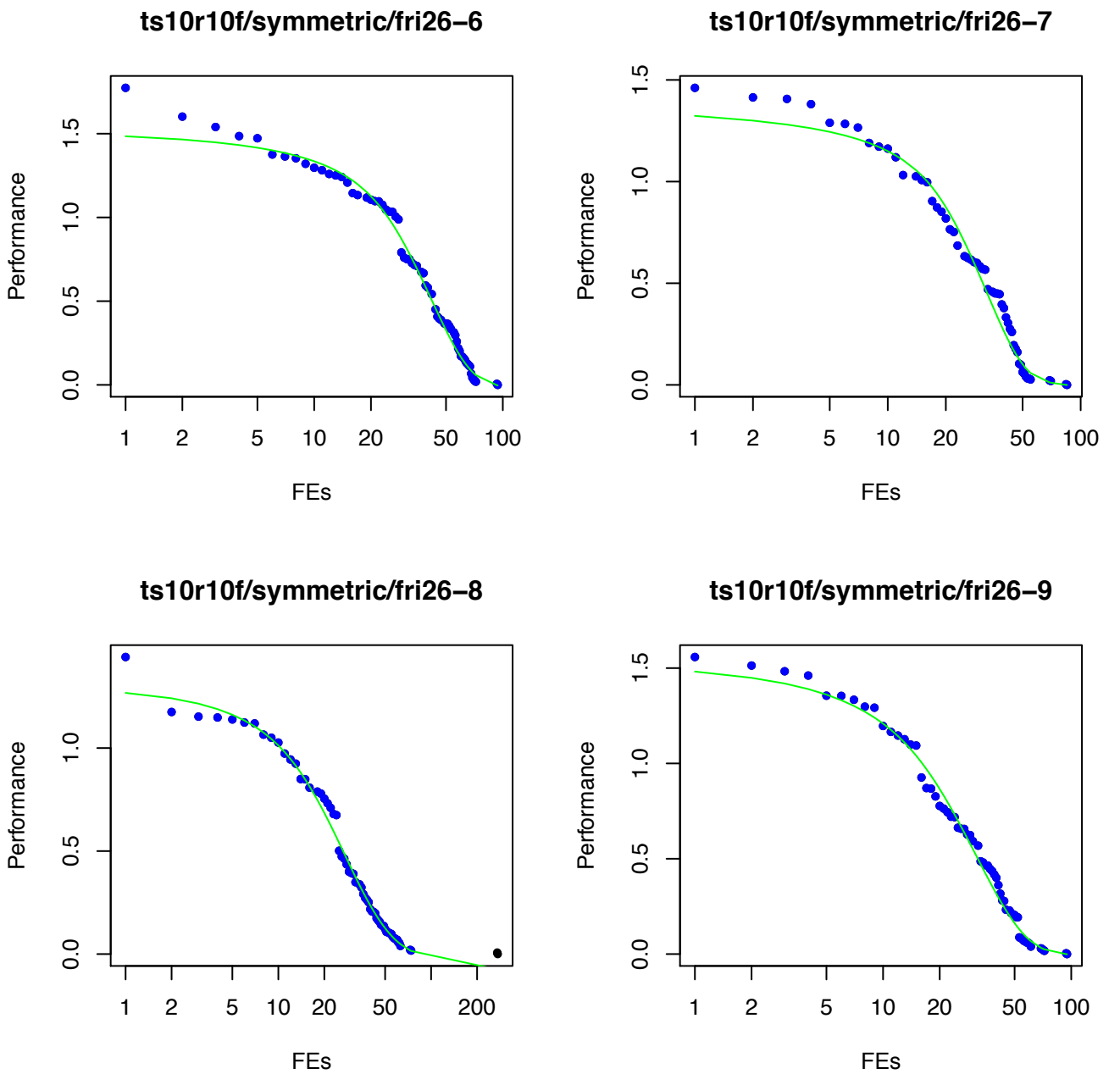
100
FEs


ts10r10f/symmetric/fri26−6
ts10r10f/symmetric/fri26−7
ts10r10f/symmetric/fri26−8
ts10r10f/symmetric/fri26−9
Performance
FEs
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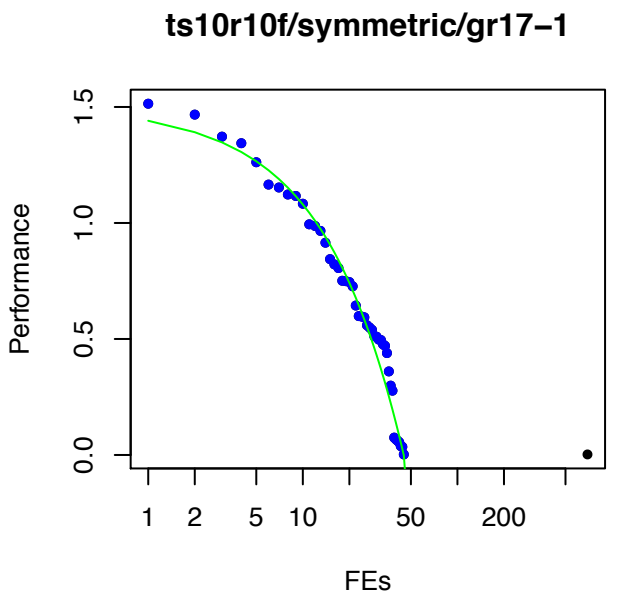
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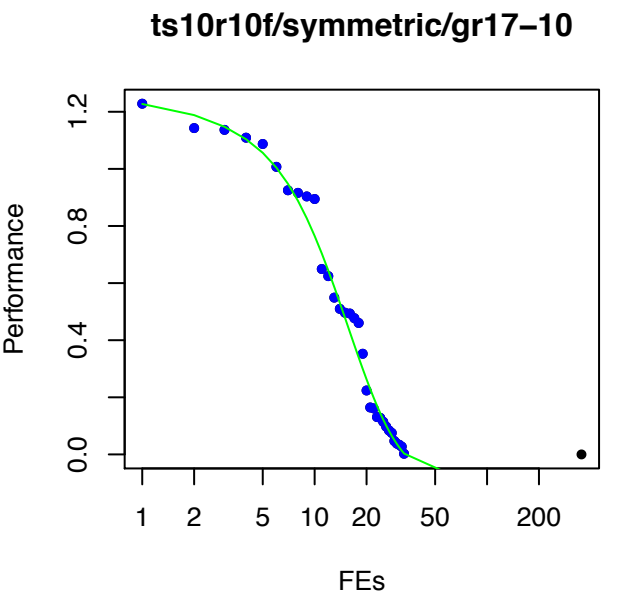
FEs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Performance
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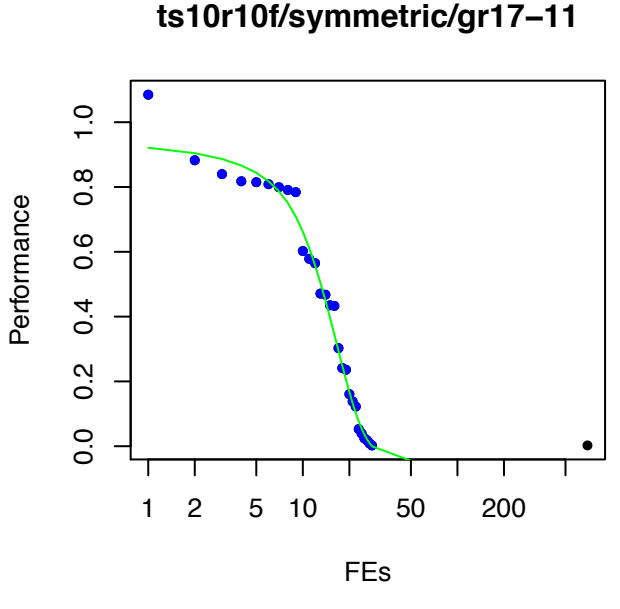
FEs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Performance
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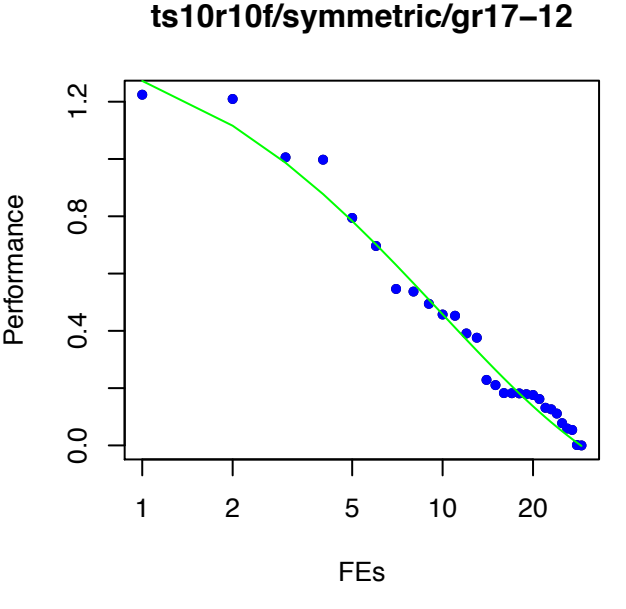
FEs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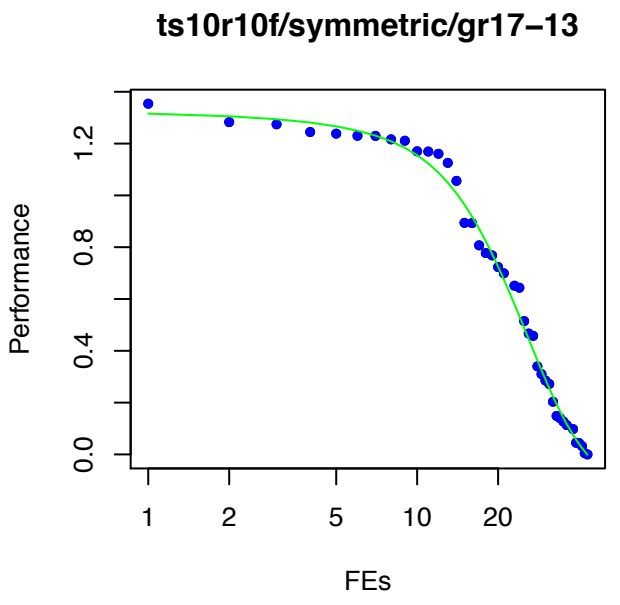
FEs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Performance
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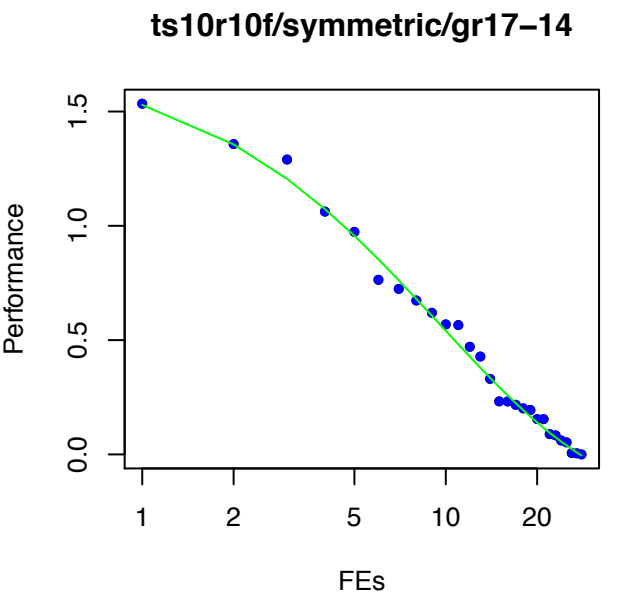
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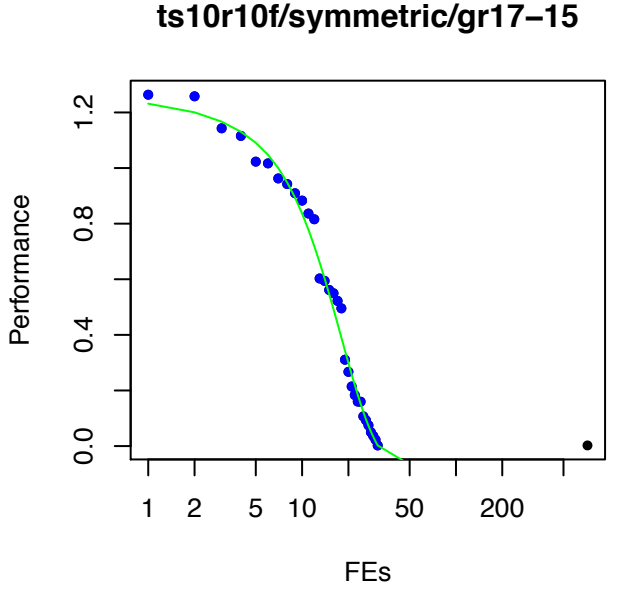
FEs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Performance
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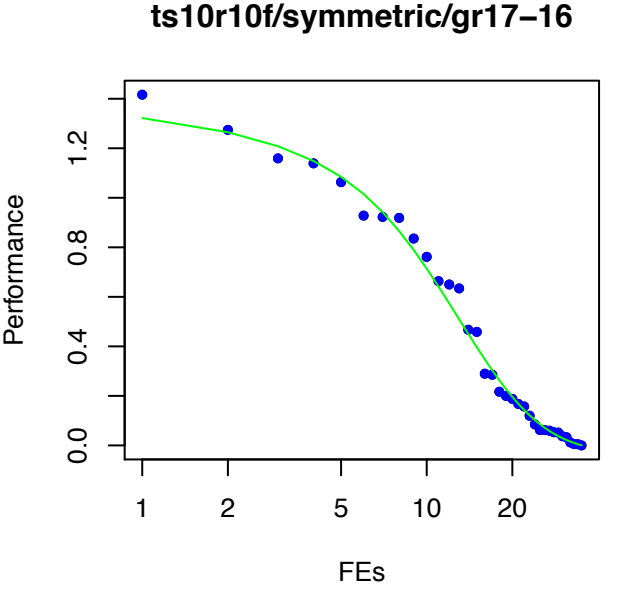
FEs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Performance
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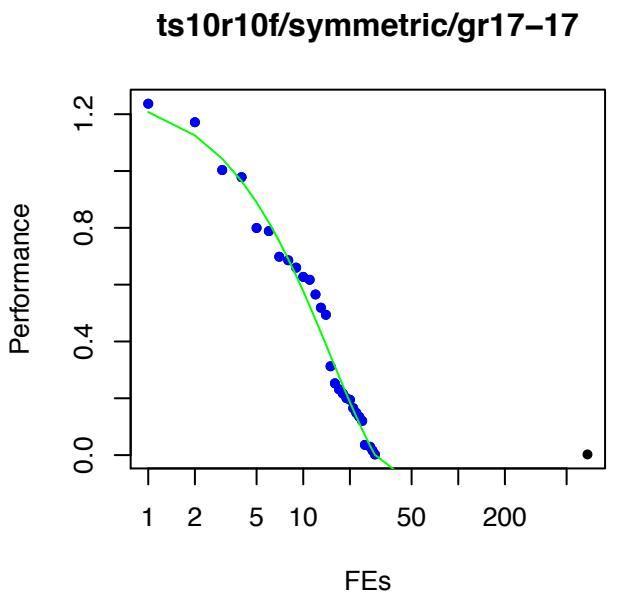
FEs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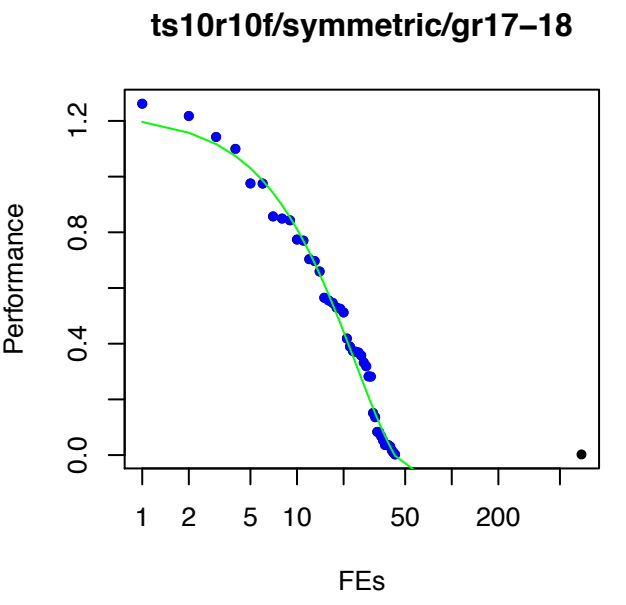
FEs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Performance
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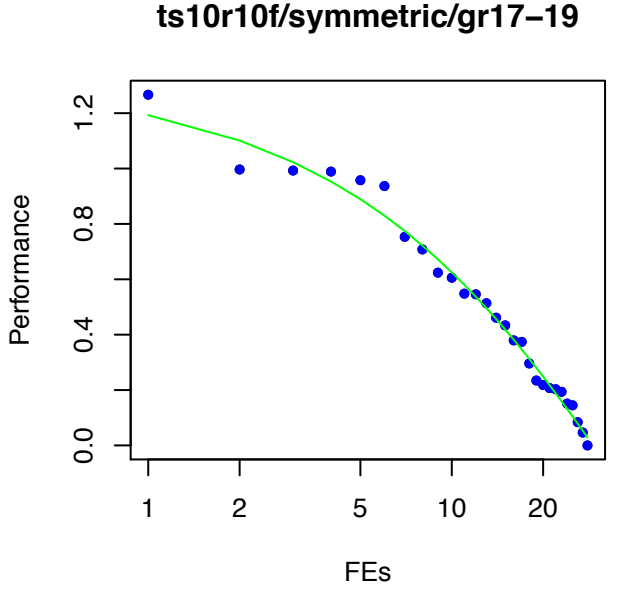
FEs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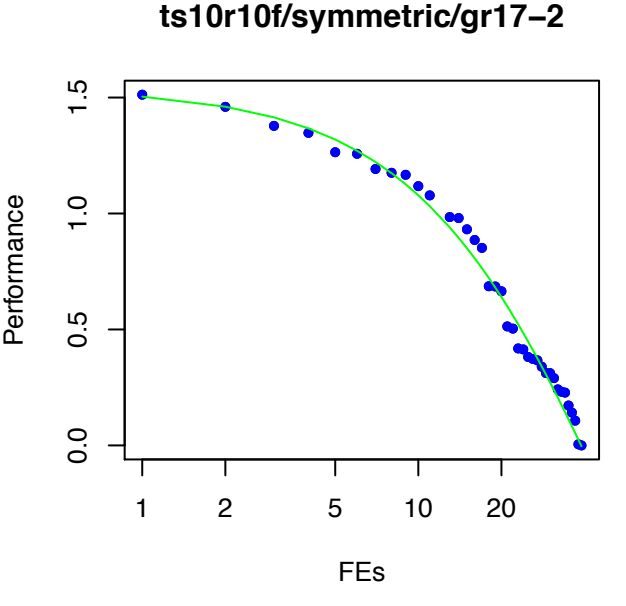
FEs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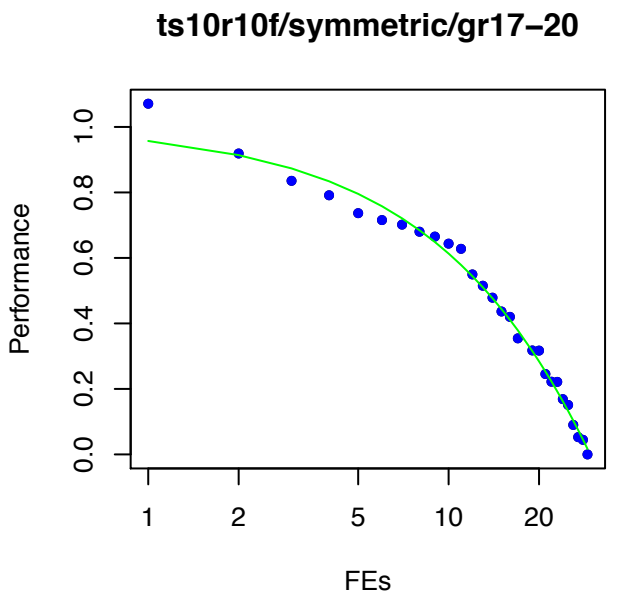
FEs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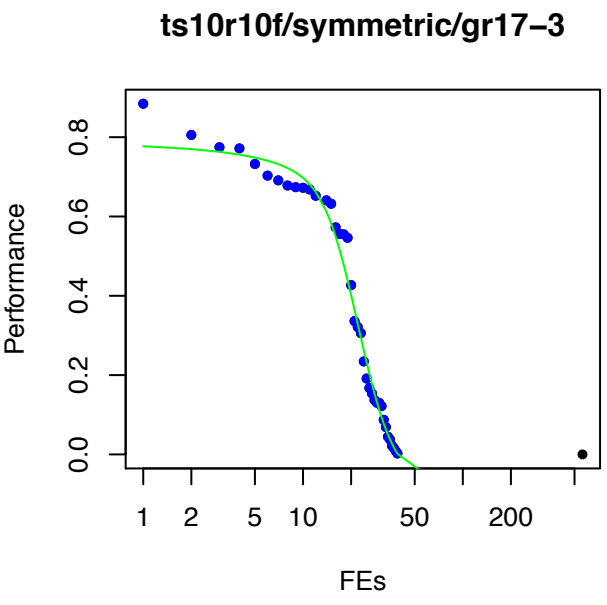
20
FEs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Performance
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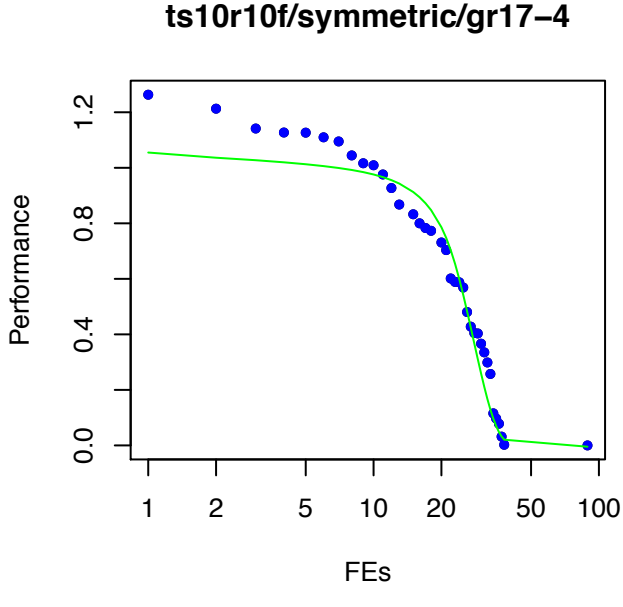
200
FEs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Performance
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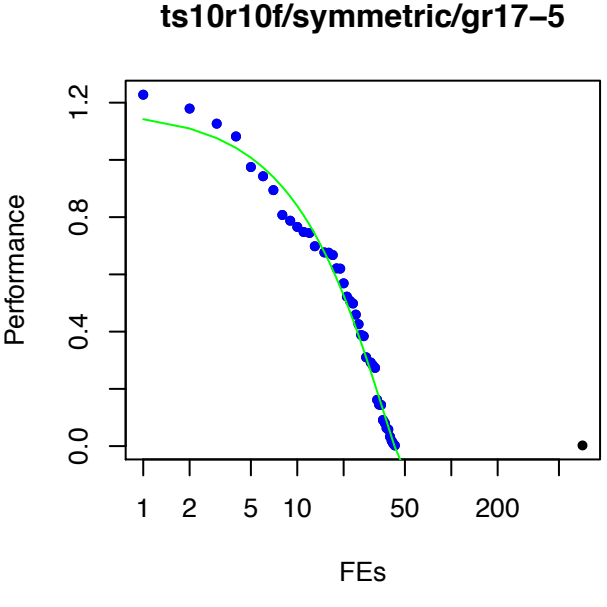
FEs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Performance
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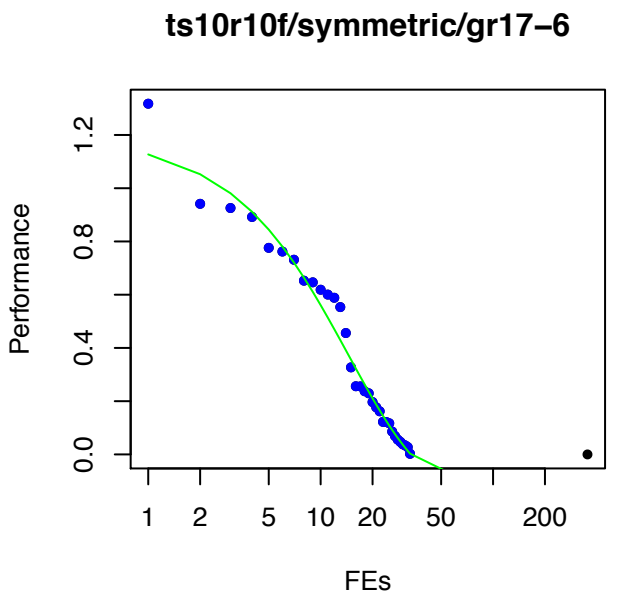
200
FEs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Performance
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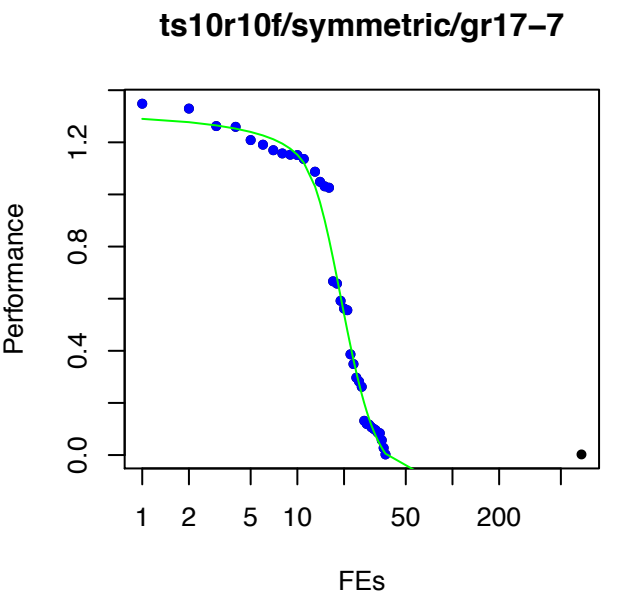
200
FEs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Performance
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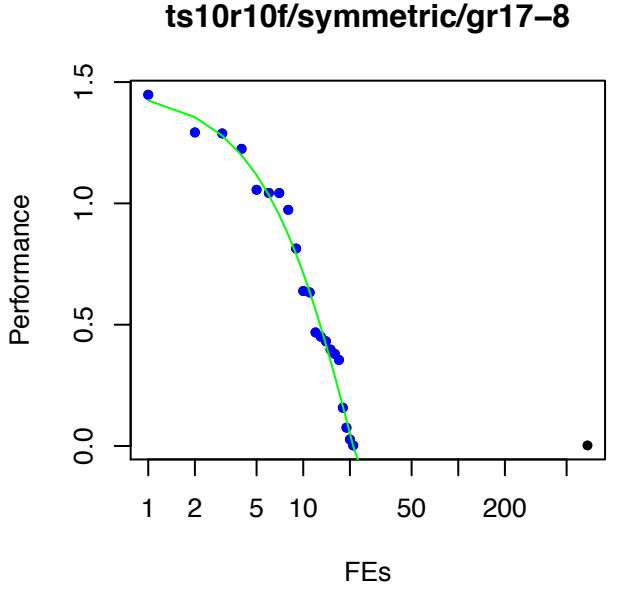
FEs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Performance
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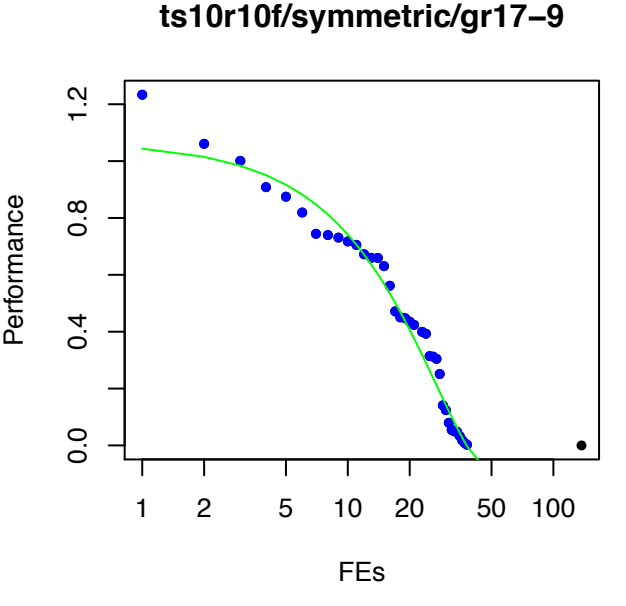
200
FEs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Performance
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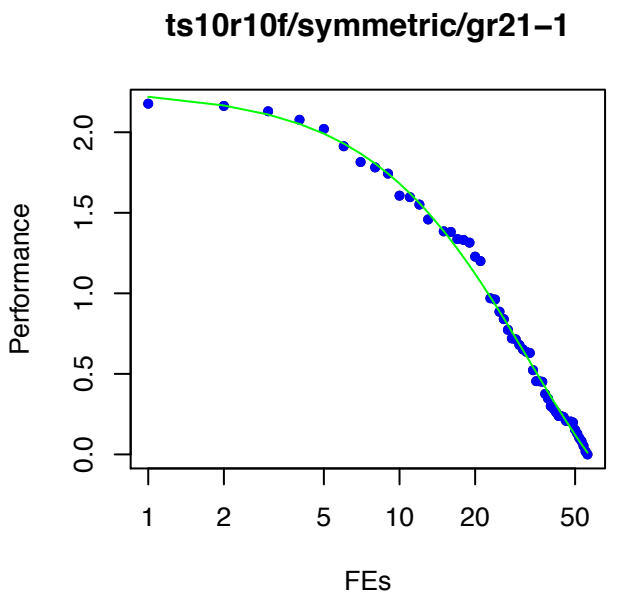
FEs


ts10r10f/symmetric/gr21−1
Performance
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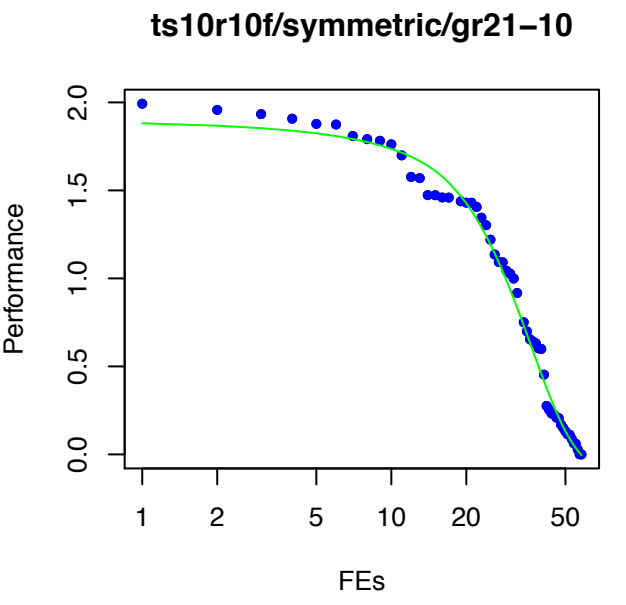
1
2
5
10
20
50
FEs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Performance
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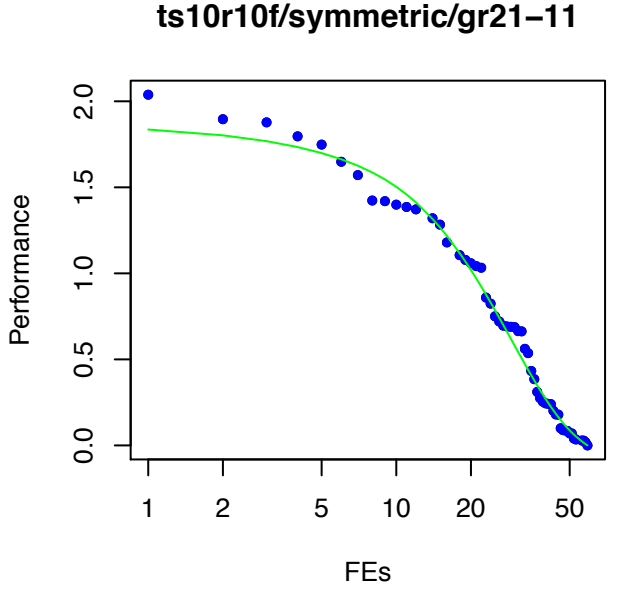
10
20
50
FEs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Performance
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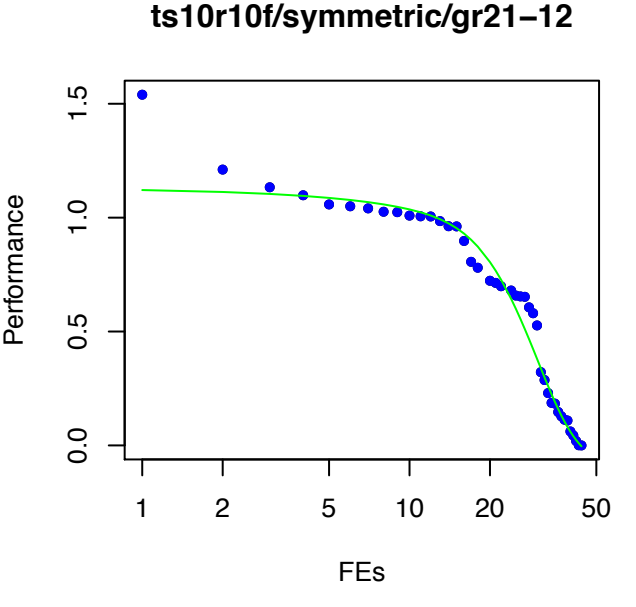
FEs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Performance
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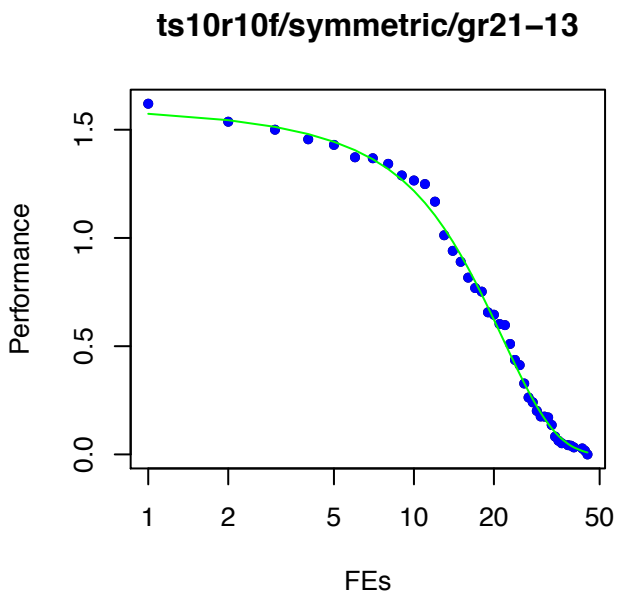
FEs


ts10r10f/symmetric/gr21−13
Performance
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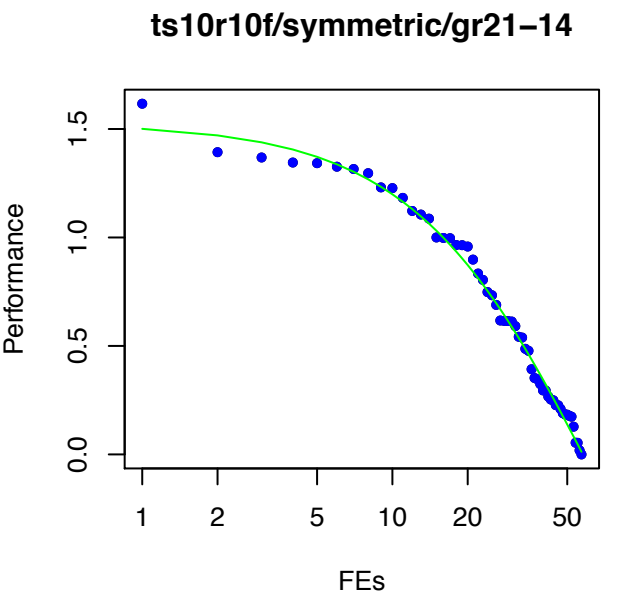
ts10r10f/symmetric/gr21−14
Performance
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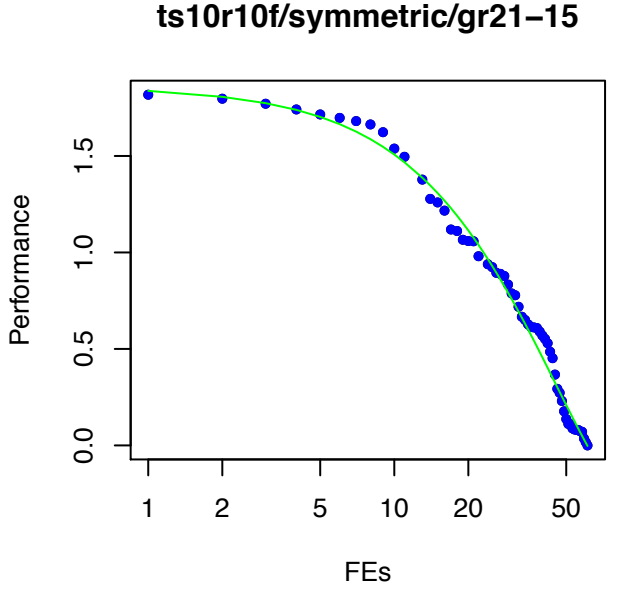
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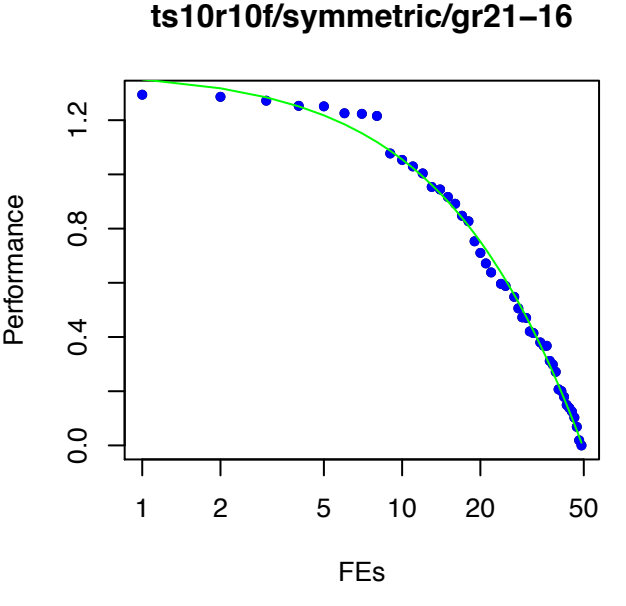
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Performance
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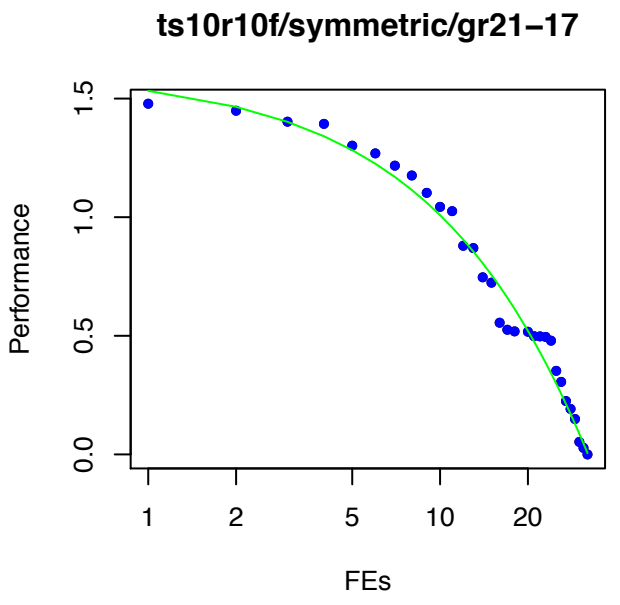
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Performance
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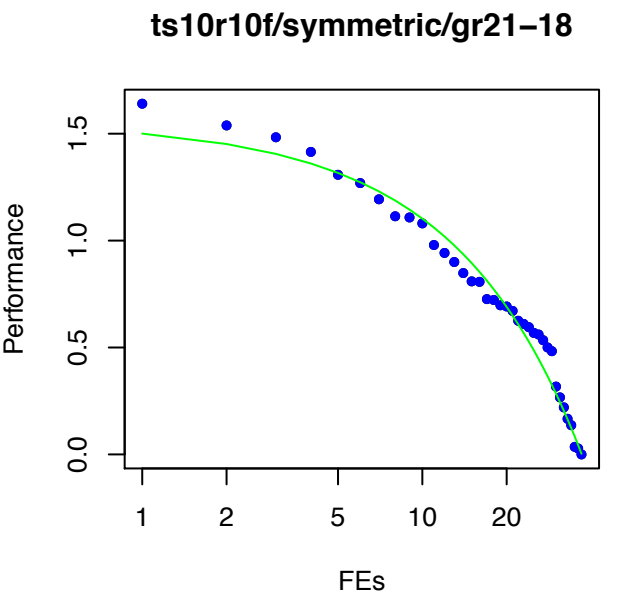
FEs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Performance
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20
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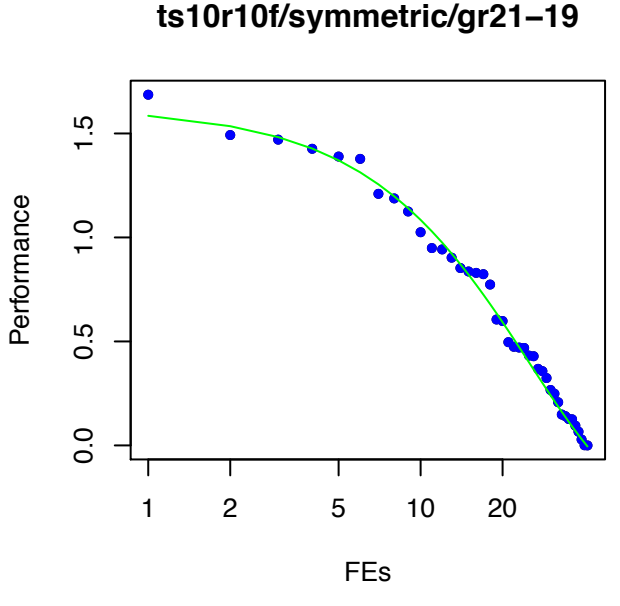
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Performance
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1.5
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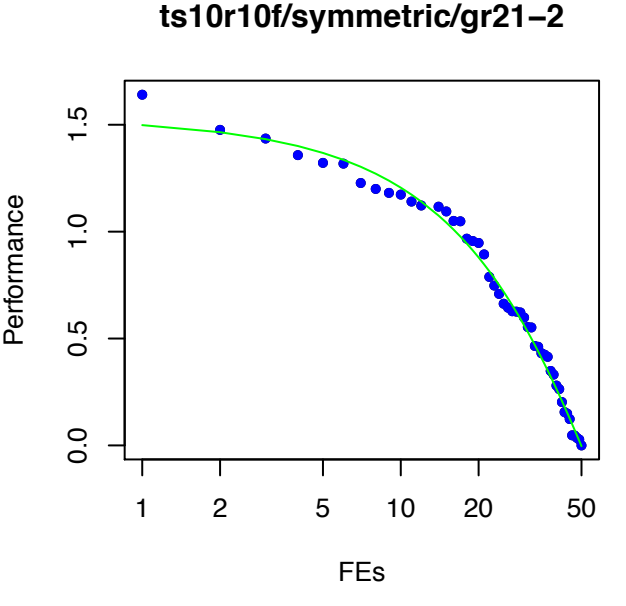
10
20
FEs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Performance
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1
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10
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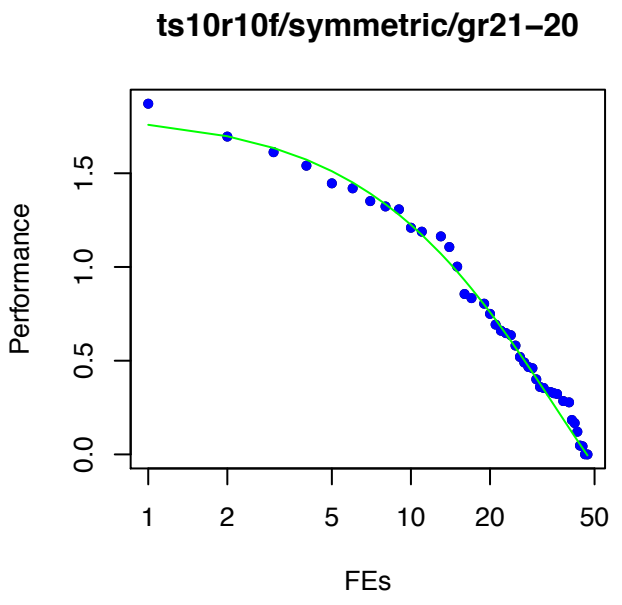
FEs


ts10r10f/symmetric/gr21−20
Performance
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1
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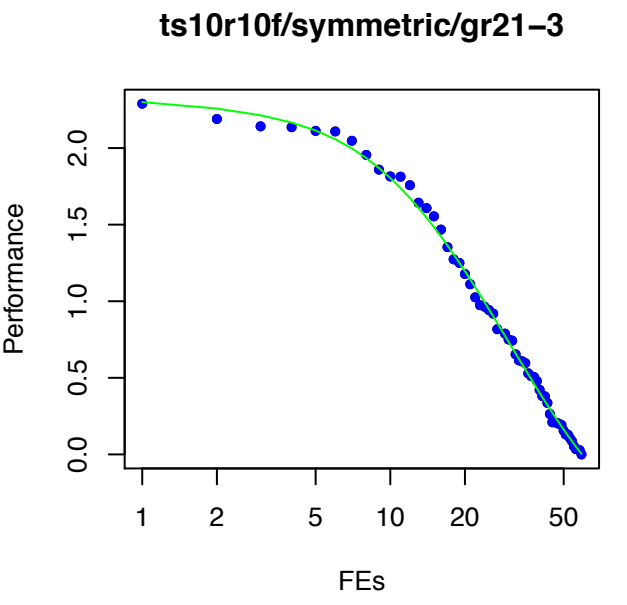
10
20
50
FEs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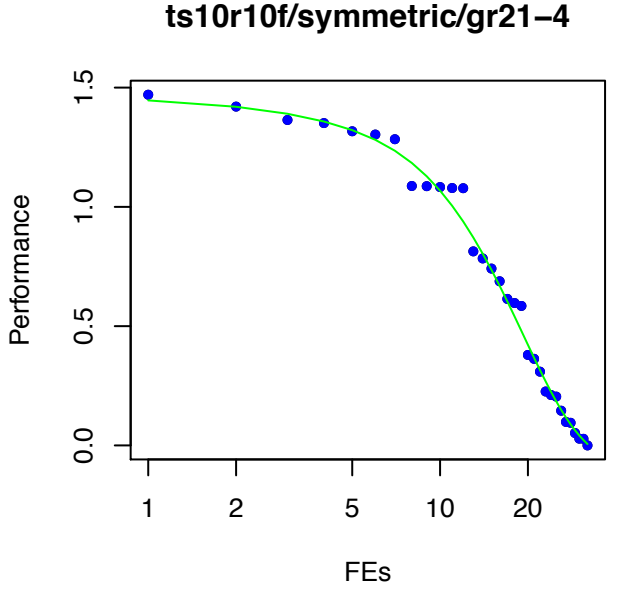
2
5
10
20
50
FEs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Performance
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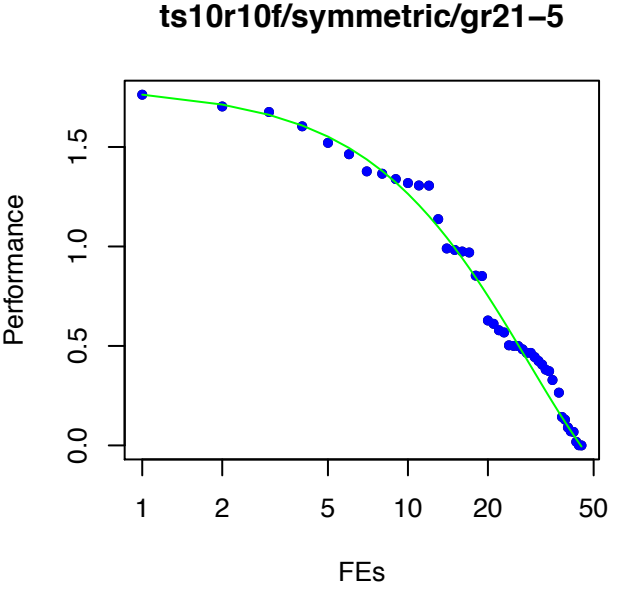
2
5
10
20
FEs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Performance
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1
2
5
10
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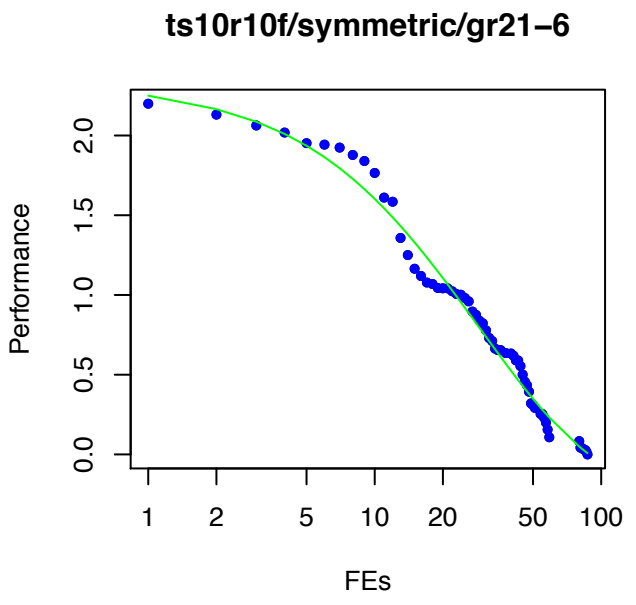
50
FEs


ts10r10f/symmetric/gr21−6
Performance
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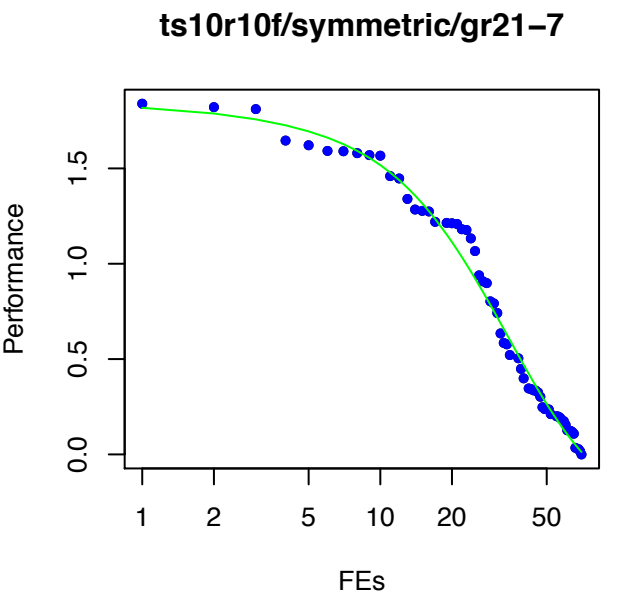
2
5
10
20
50
100
FEs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Performance
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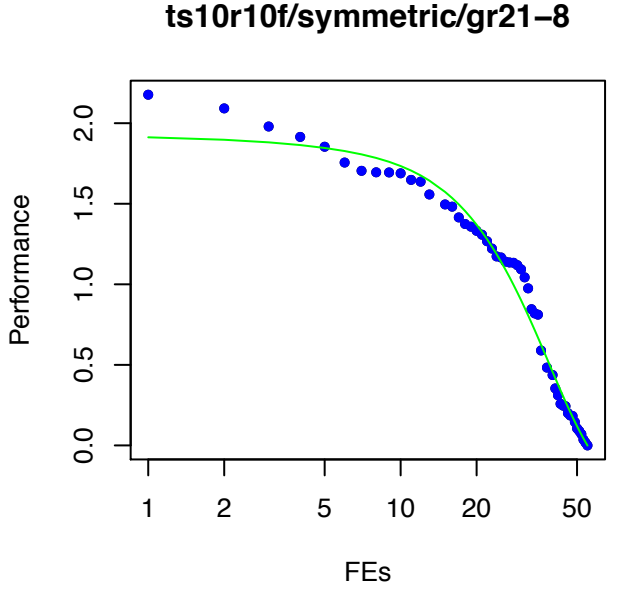
1
2
5
10
20
50
FEs


ts10r10f/symmetric/gr21−8
Performance
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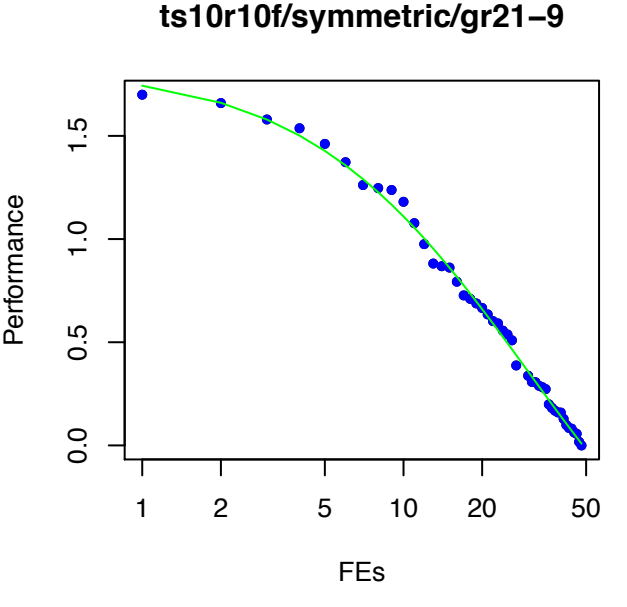
1
2
5
10
20
50
FEs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Performance
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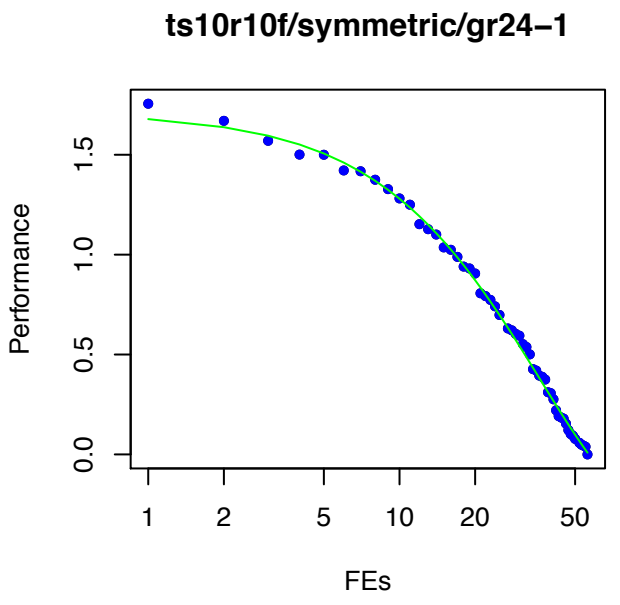
FEs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Performance
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1
2
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10
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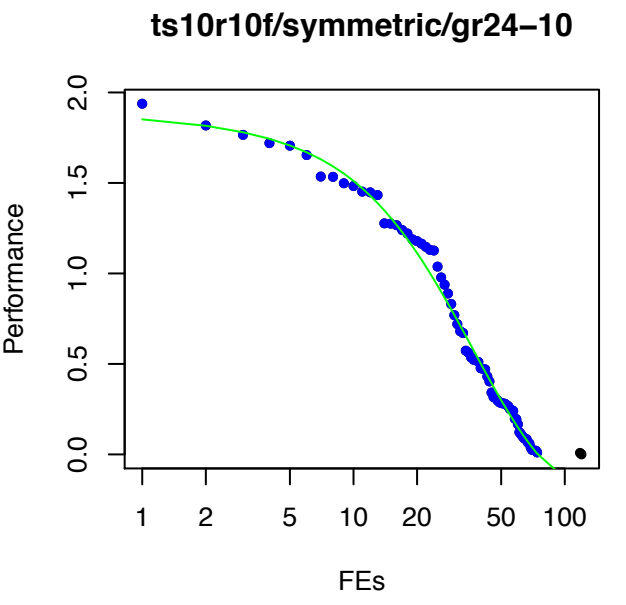
FEs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Performance
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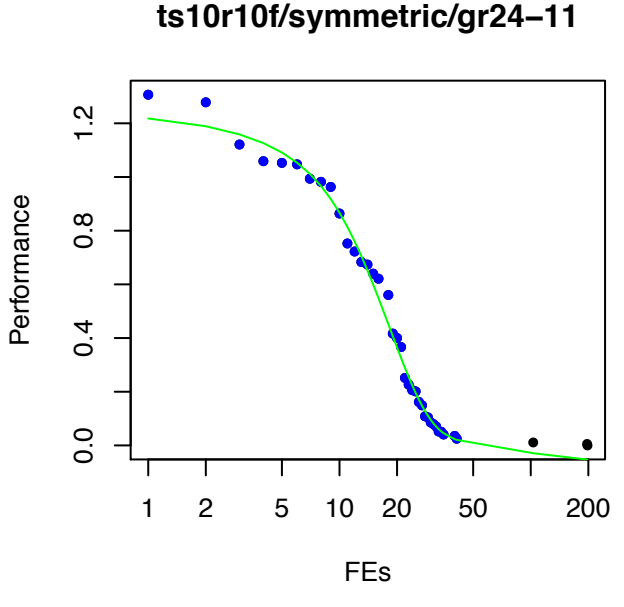
2
5
10
20
50
100
FEs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Performance
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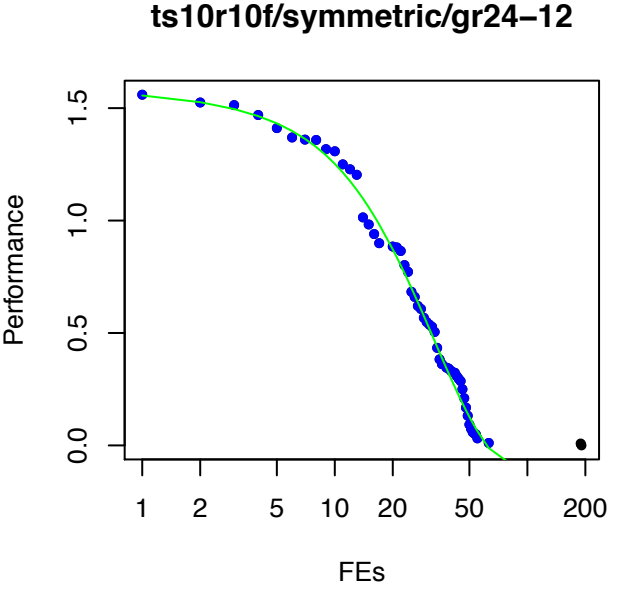
200
FEs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Performance
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1
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10
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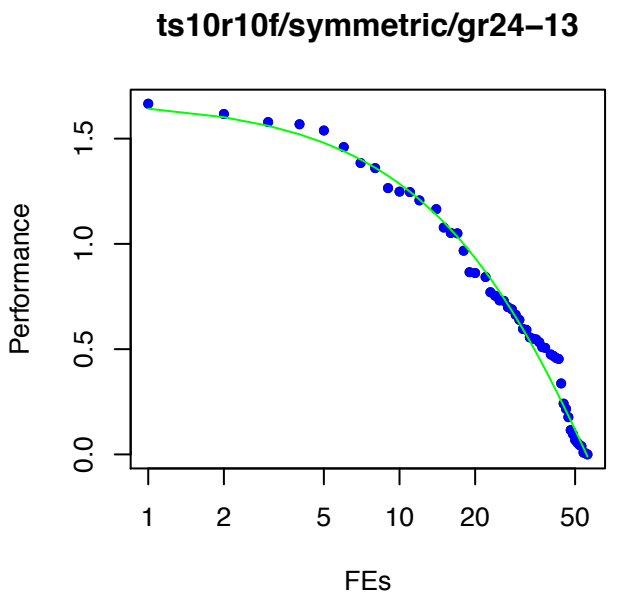
200
FEs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Performance
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1
2
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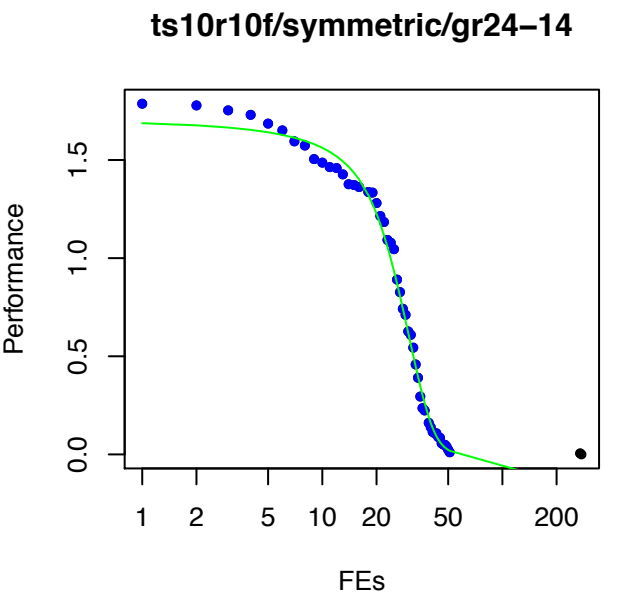
10
20
50
FEs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Performance
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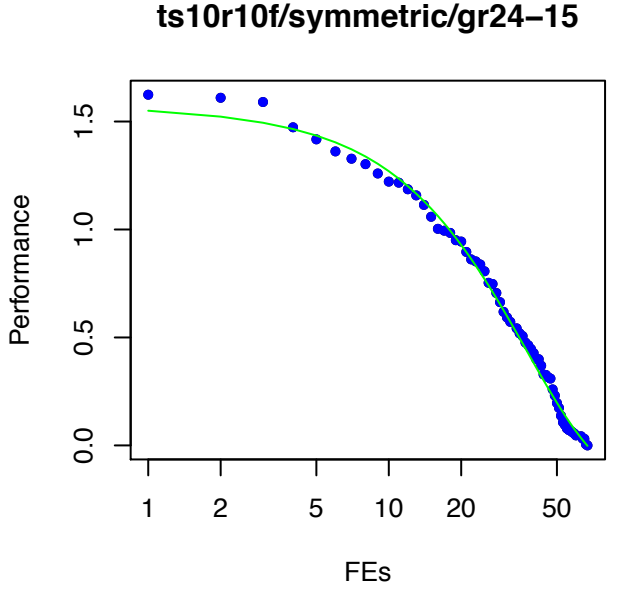
200
FEs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Performance
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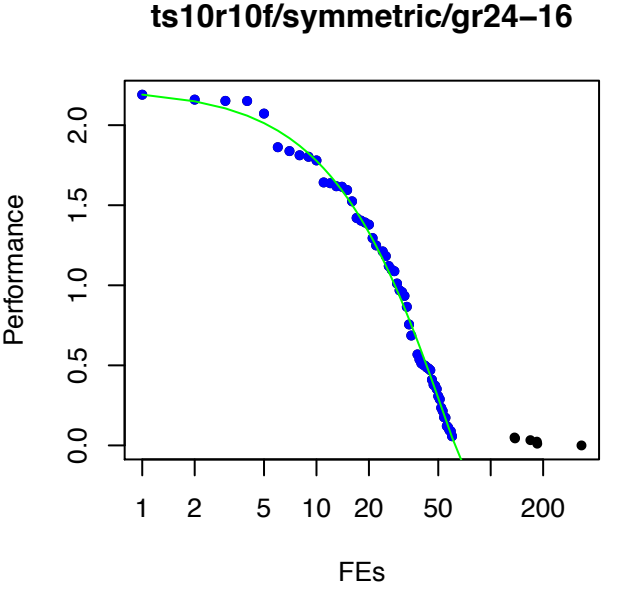
FEs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Performance
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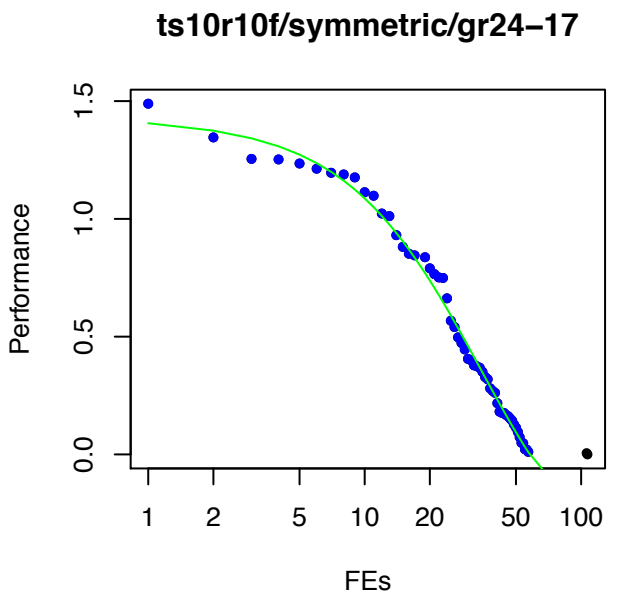
FEs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Performance
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2
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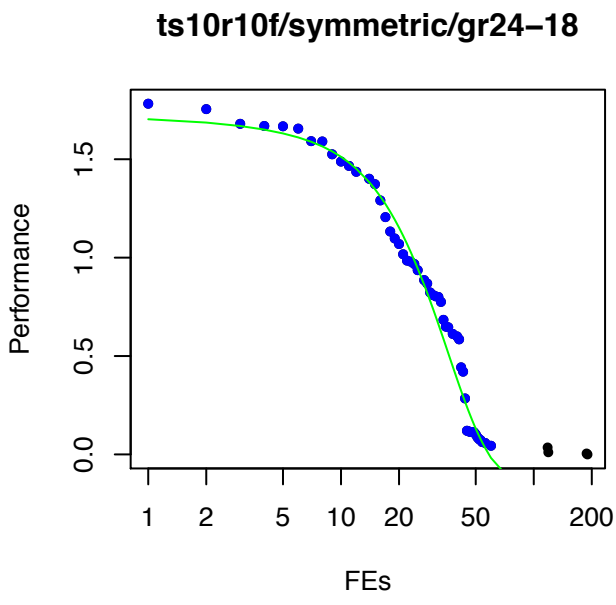
100
FEs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Performance
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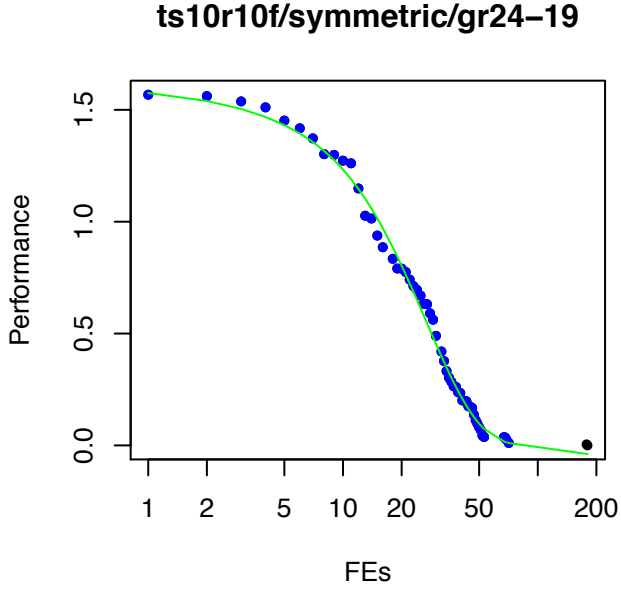
FEs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Performance
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2
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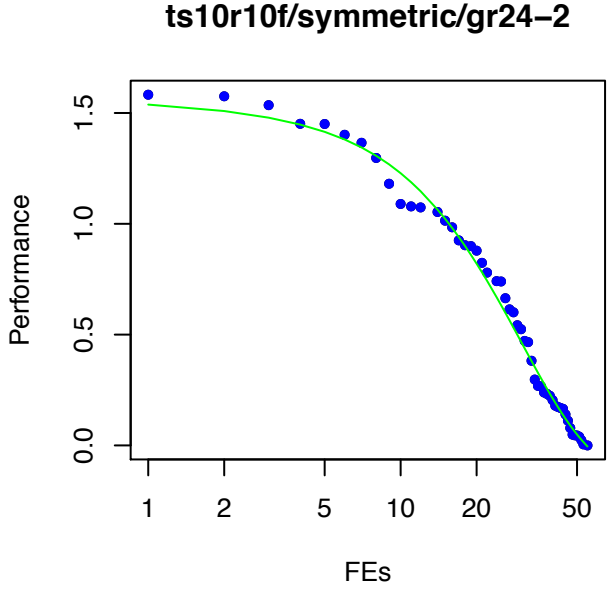
200
FEs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Performance
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1
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10
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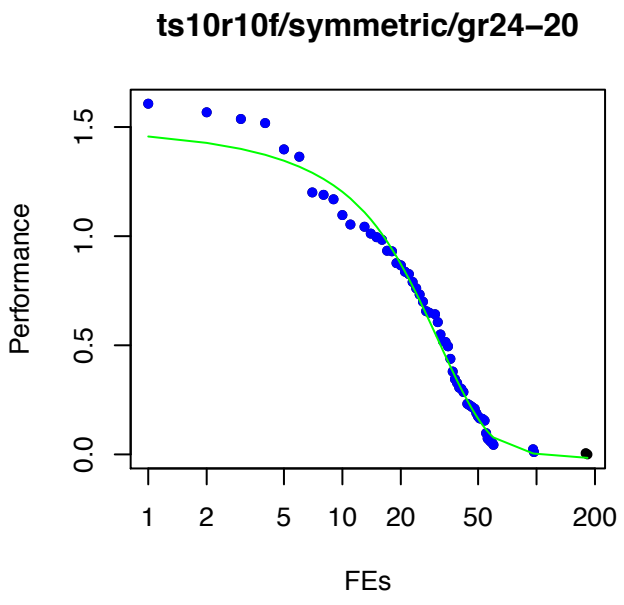
50
FEs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Performance
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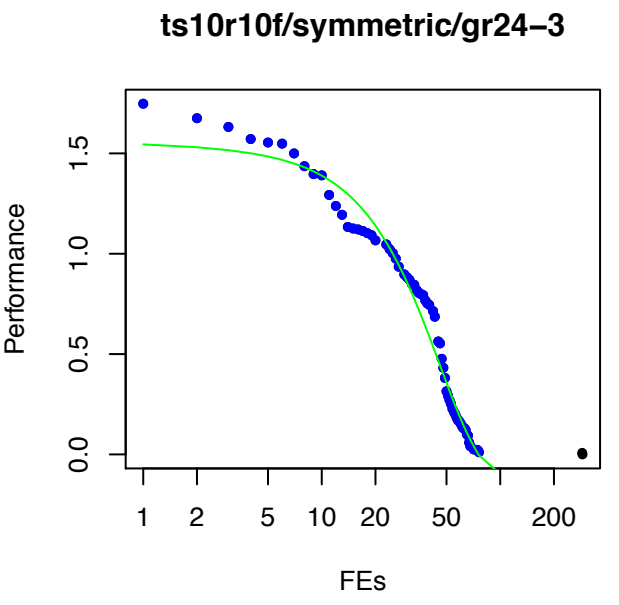
200
FEs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Performance
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2
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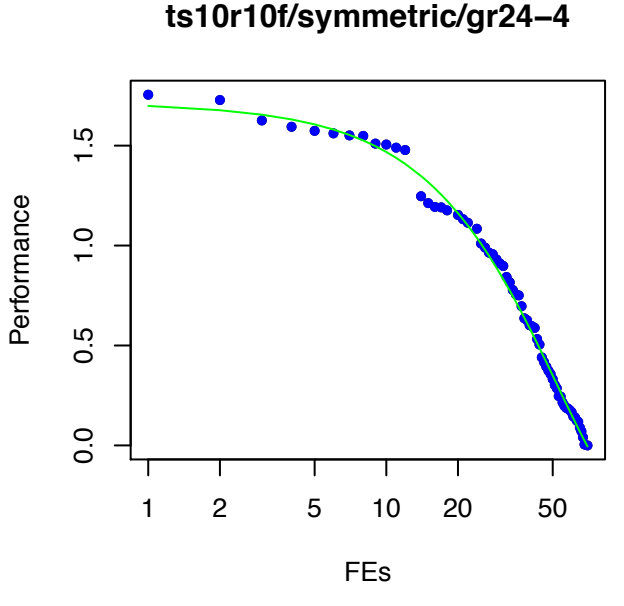
10
20
50
200
FEs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Performance
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1
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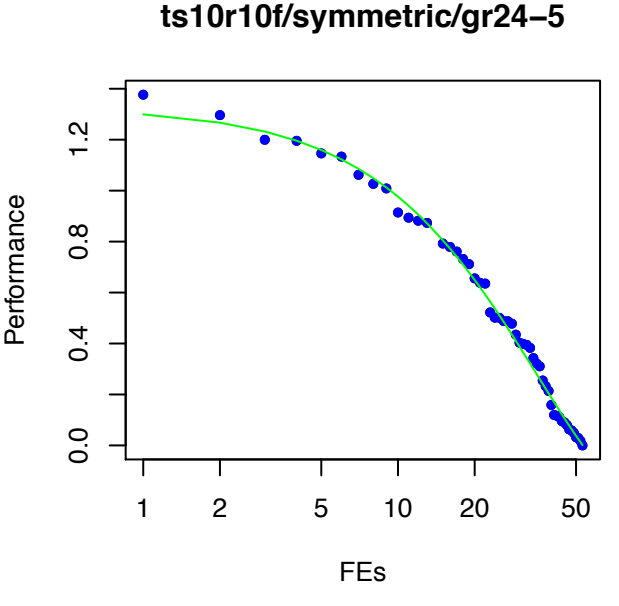
50
FEs


ts10r10f/symmetric/gr24−5
Performance
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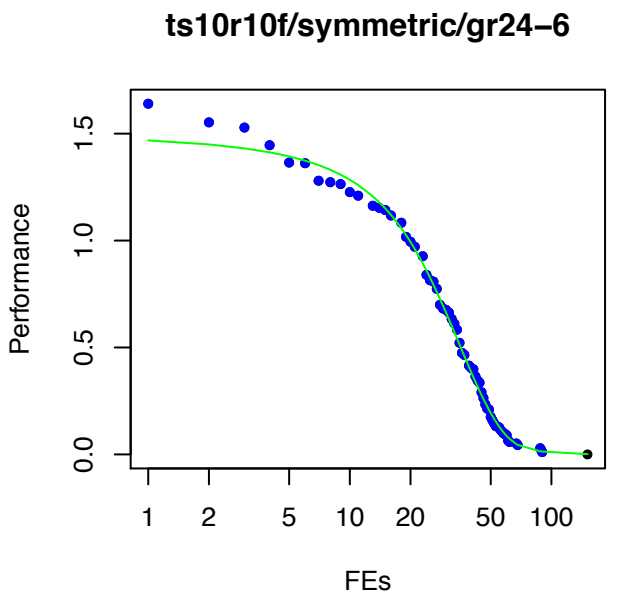
50
FEs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Performance
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2
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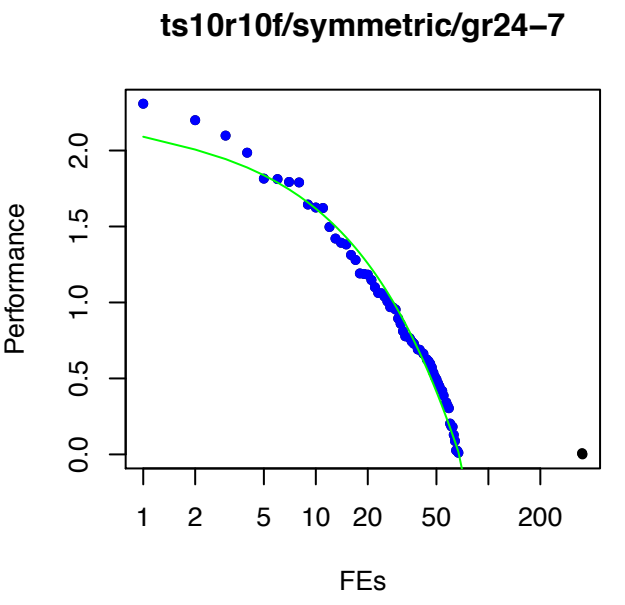
20
50
100
FEs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Performance
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2
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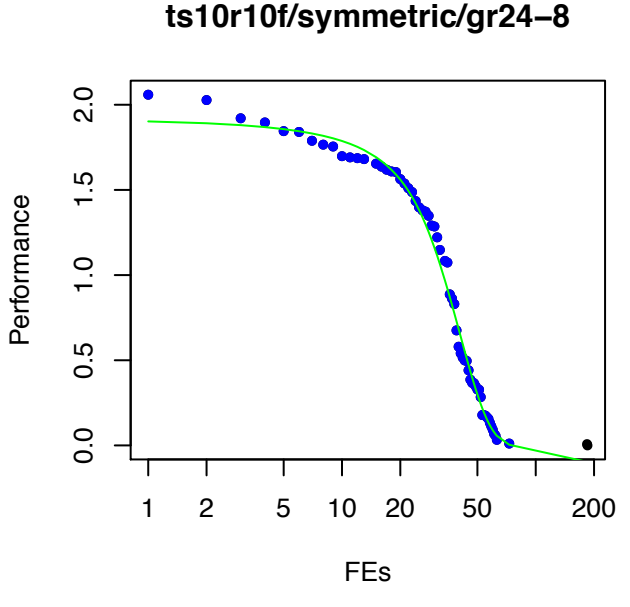
200
FEs


ts10r10f/symmetric/gr24−8
Performance
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1.5
2.0
1
2
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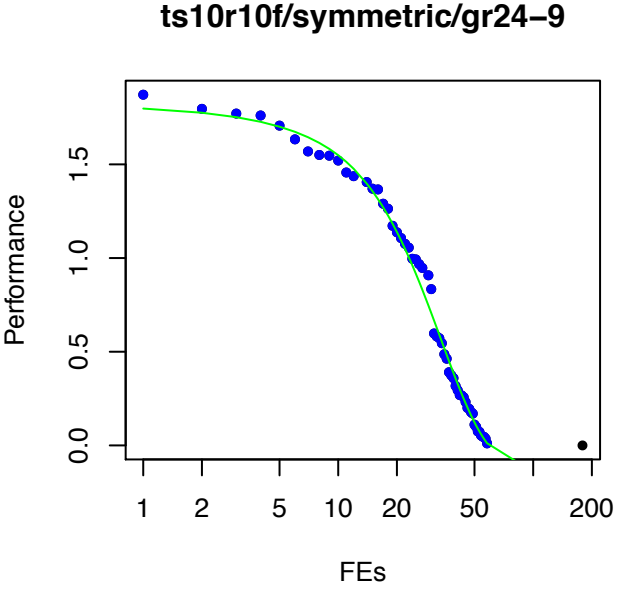
10
20
50
200
FEs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Performance
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1.0
1.5
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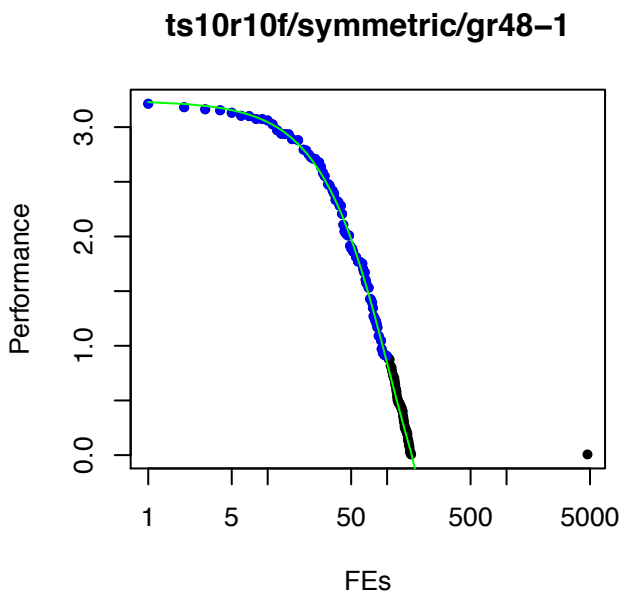
2
5
10
20
50
200
FEs


ts10r10f/symmetric/gr48−1
Performance
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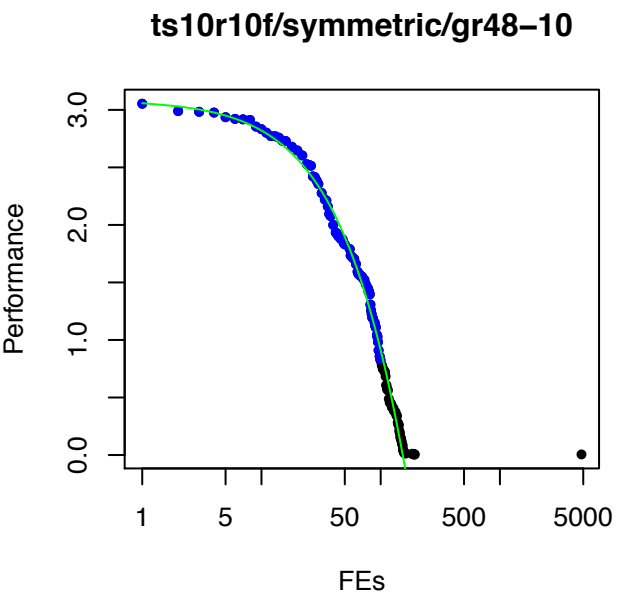
3.0
1
5
50
500
5000
FEs


ts10r10f/symmetric/gr48−10
Performance
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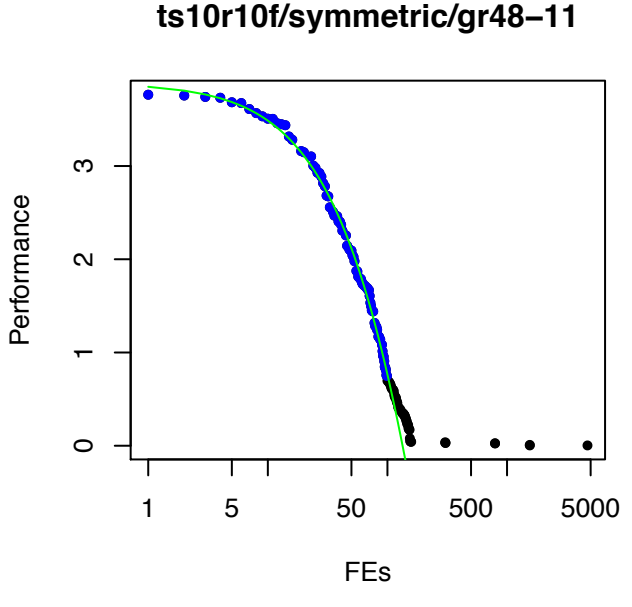
2.0
3.0
1
5
50
500
5000
FEs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Performance
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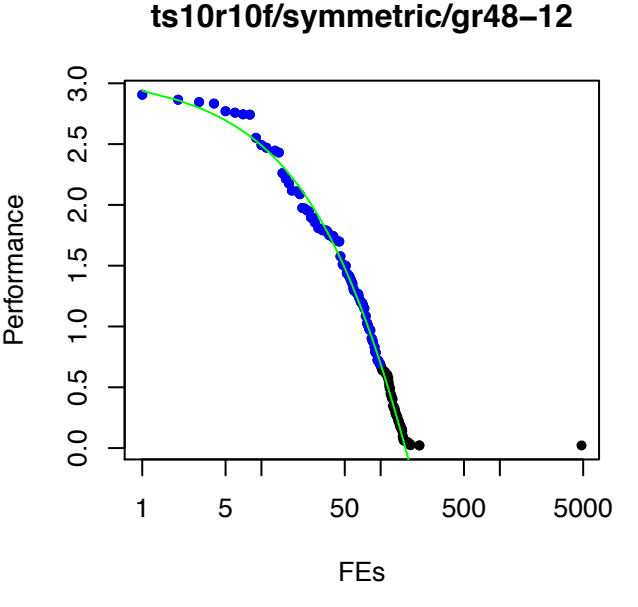
2
3
1
5
50
500
5000
FEs


ts10r10f/symmetric/gr48−12
Performance
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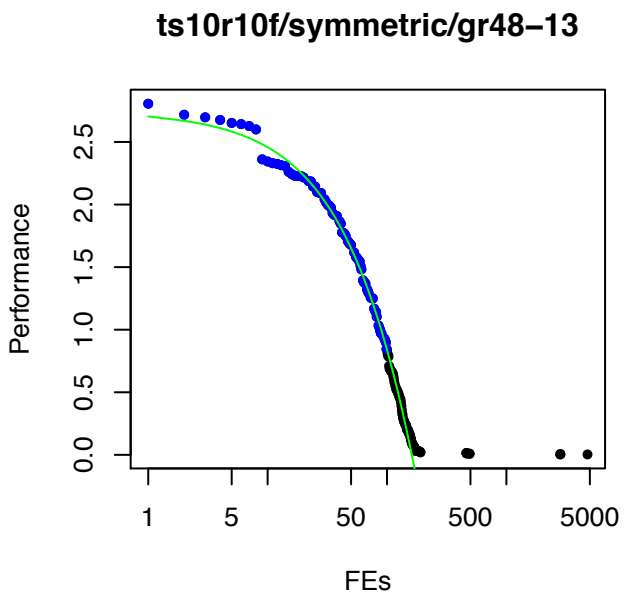
3.0
1
5
50
500
5000
FEs


ts10r10f/symmetric/gr48−13
Performance
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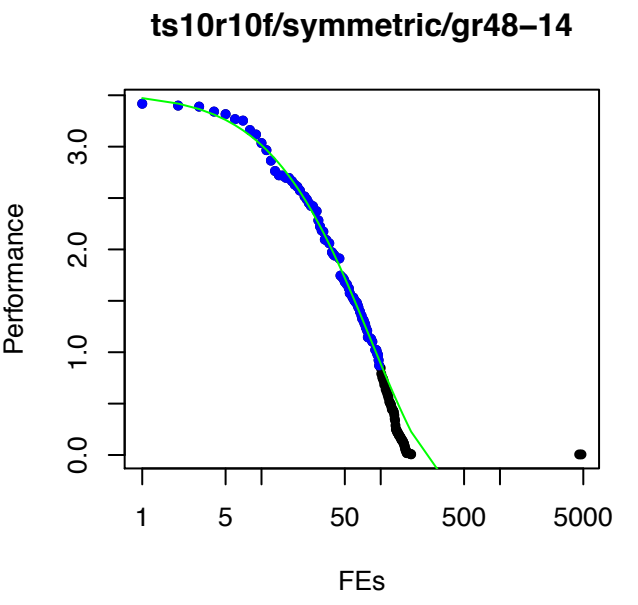
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts10r10f/symmetric/gr48−14
Performance
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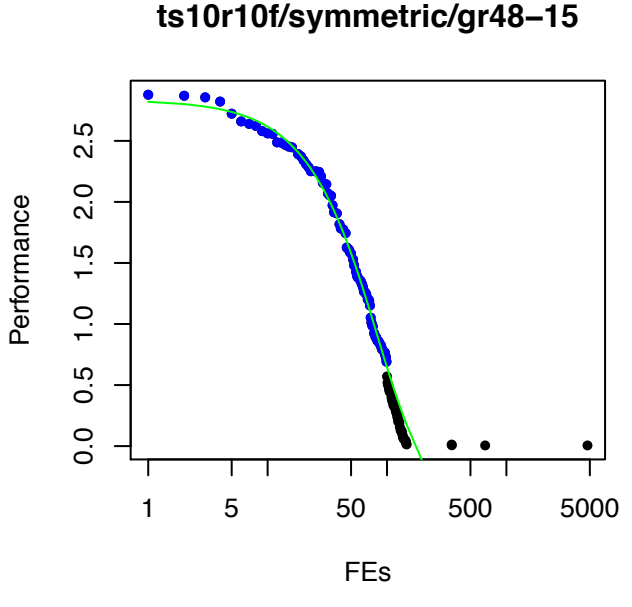
5000
FEs


ts10r10f/symmetric/gr48−15
Performance
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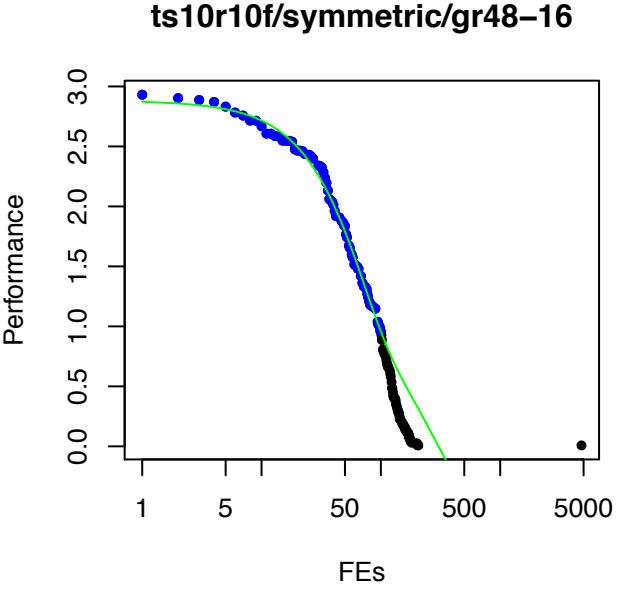
5000
FEs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3.0
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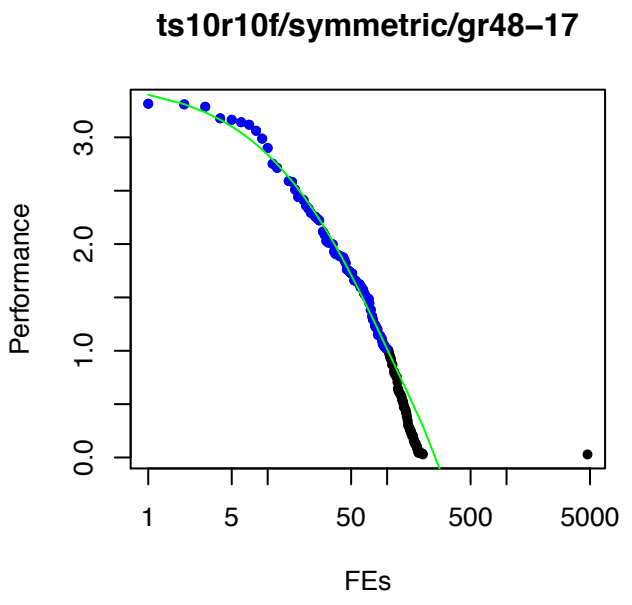
5
50
500
5000
FEs


ts10r10f/symmetric/gr48−17
Performance
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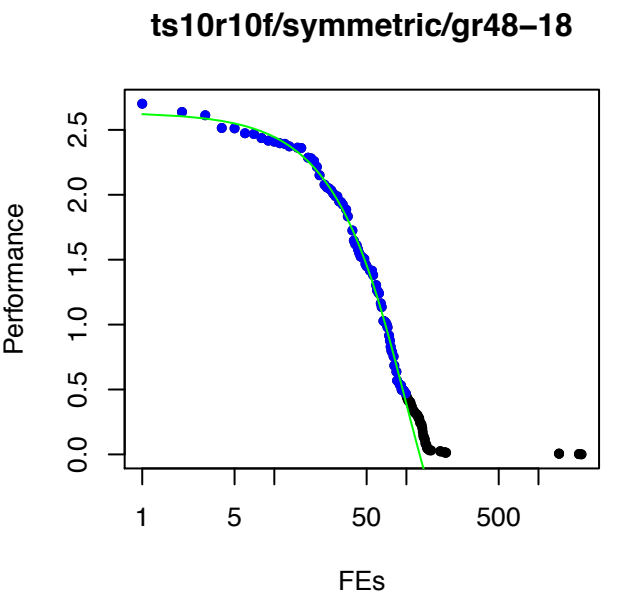
FEs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Performance
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1.5
2.0
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1
5
50
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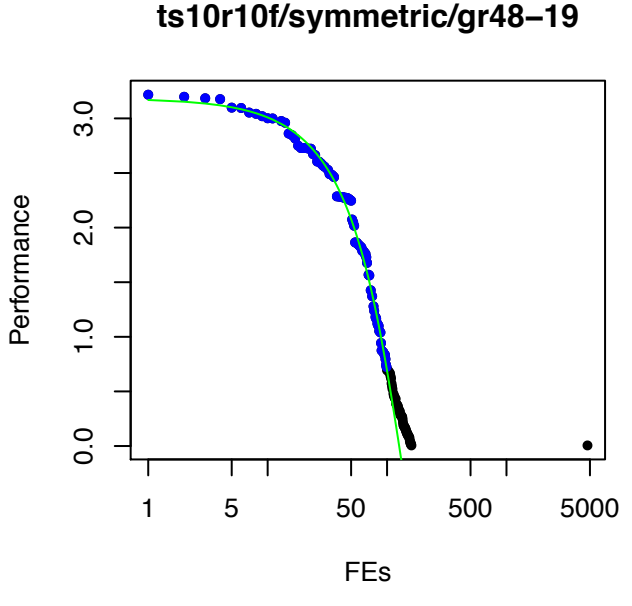
FEs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Performance
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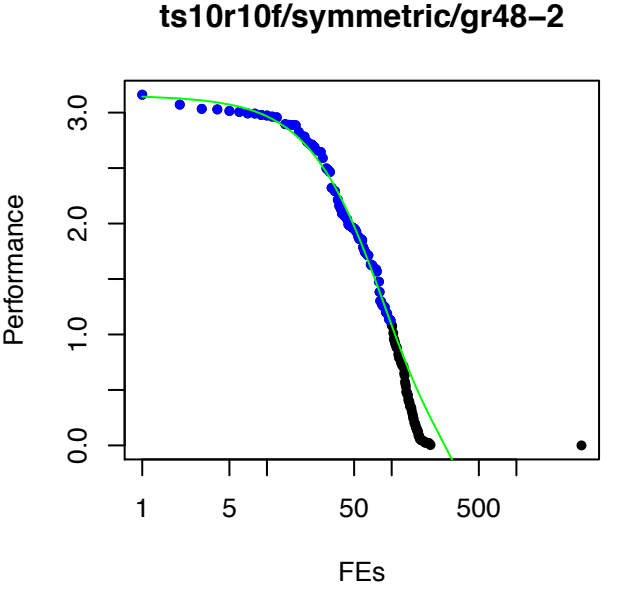
5000
FEs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Performance
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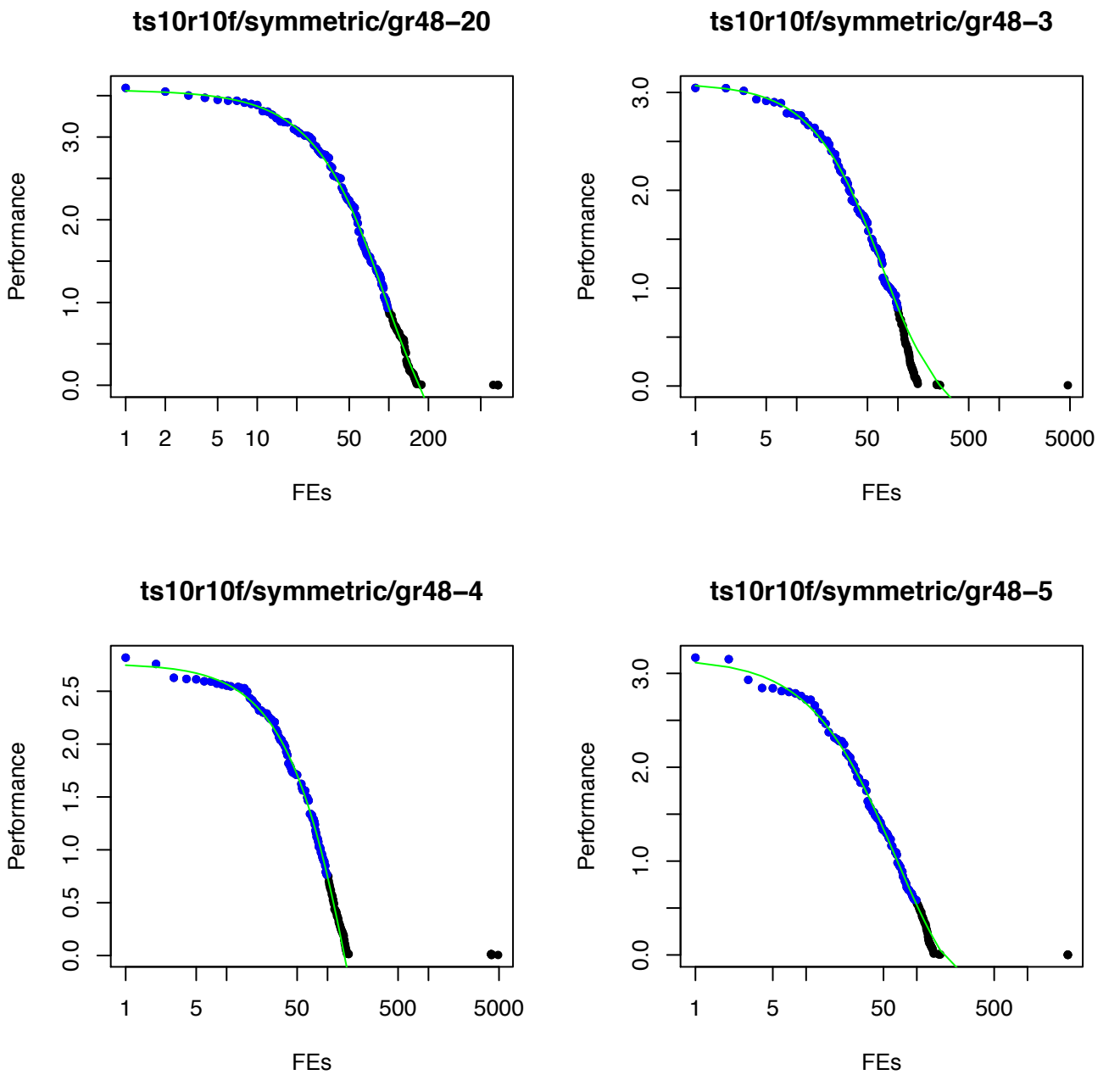
FEs


ts10r10f/symmetric/gr48−20
Performance
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2.0
3.0
1
2
5
10
50
200
FEs
ts10r10f/symmetric/gr48−3
Performance
0.0
1.0
2.0
3.0
1
5
50
500
5000
FEs
ts10r10f/symmetric/gr48−4
Performance
0.0
0.5
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs
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Performance
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3.0
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5
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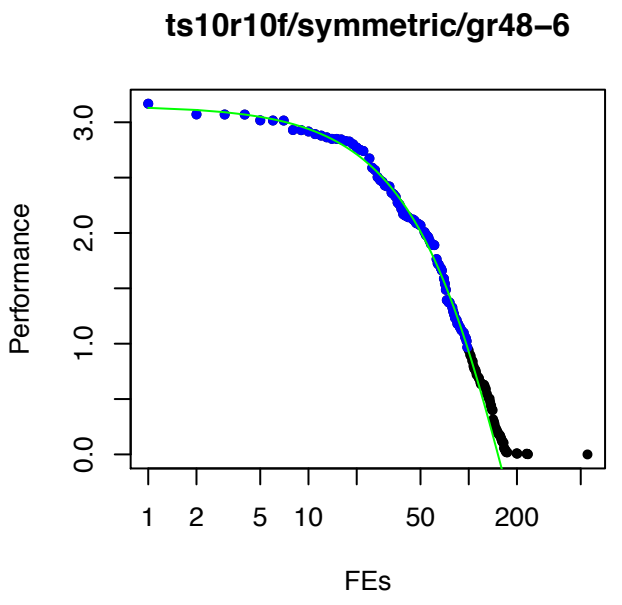
500
FEs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Performance
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10
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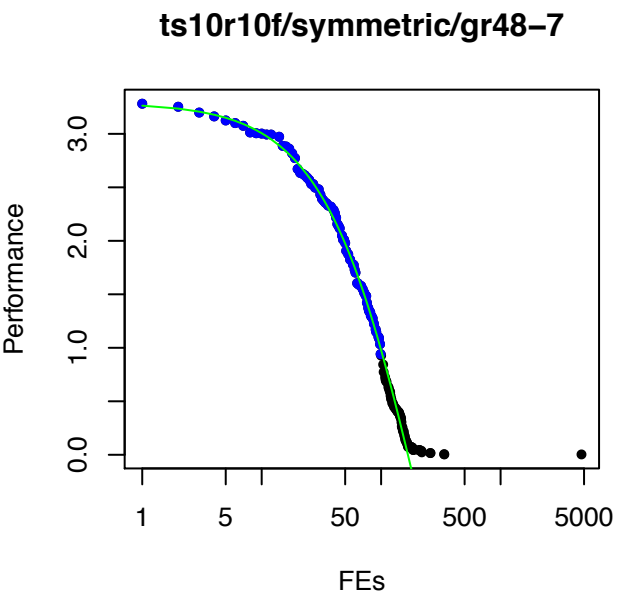
200
FEs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Performance
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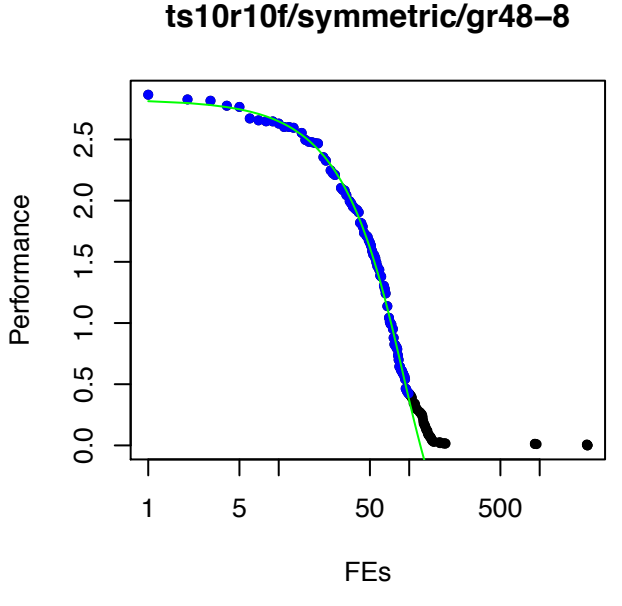
50
500
5000
FEs


ts10r10f/symmetric/gr48−8
Performance
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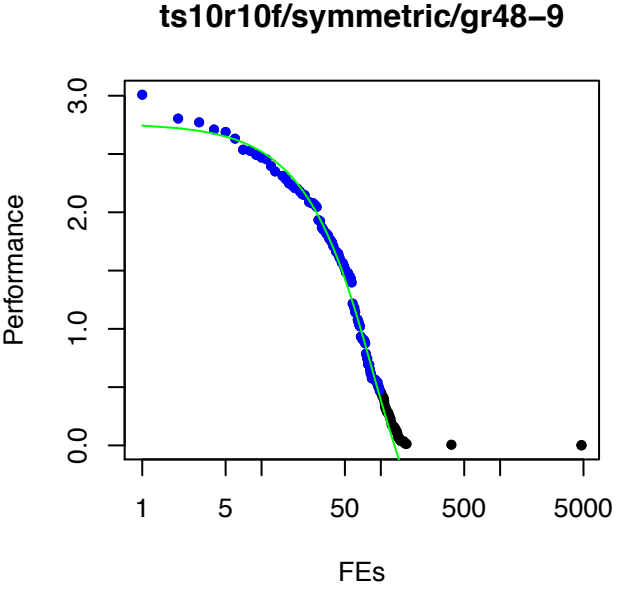
1.0
1.5
2.0
2.5
1
5
50
500
FEs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Performance
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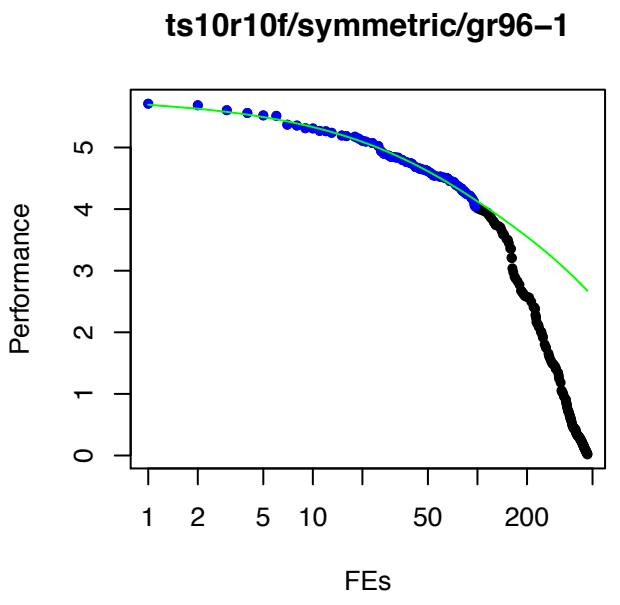
2.0
3.0
1
5
50
500
5000
FEs


ts10r10f/symmetric/gr96−1
Performance
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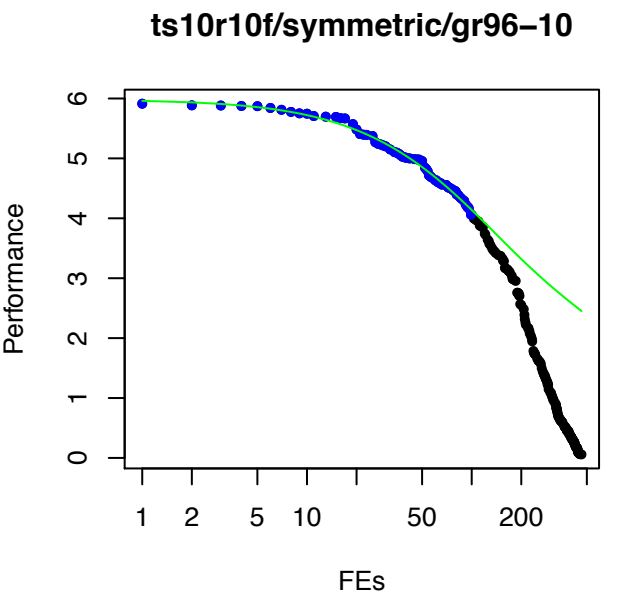
5
1
2
5
10
50
200
FEs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Performance
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10
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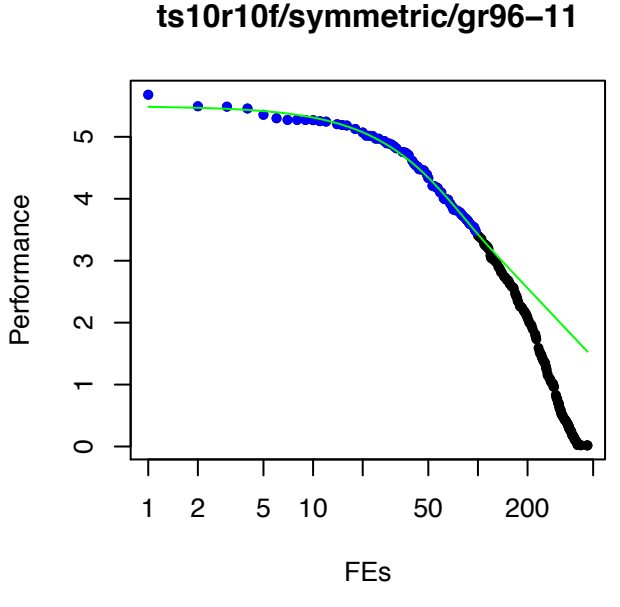
200
FEs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Performance
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5
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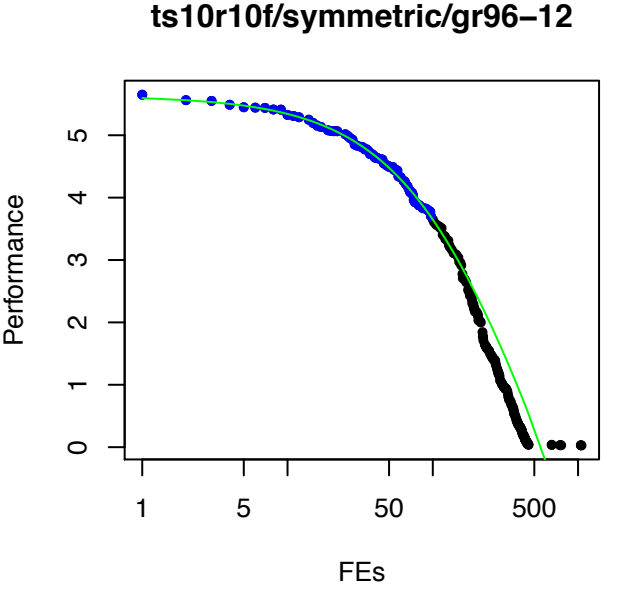
2
5
10
50
200
FEs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Performance
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5
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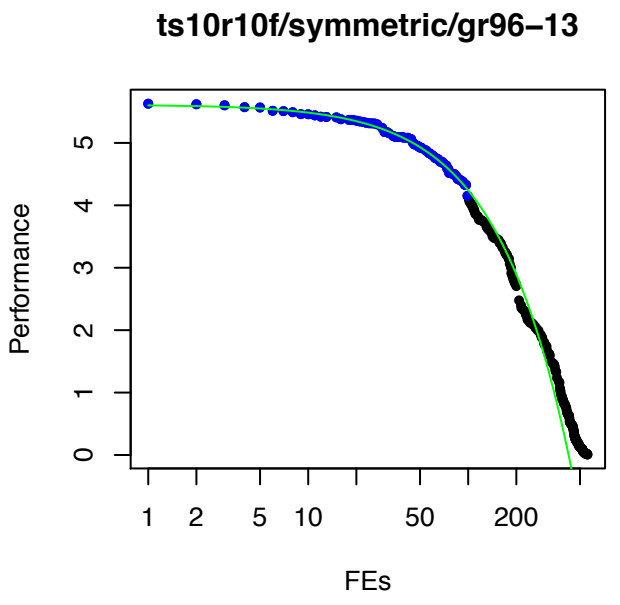
500
FEs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Performance
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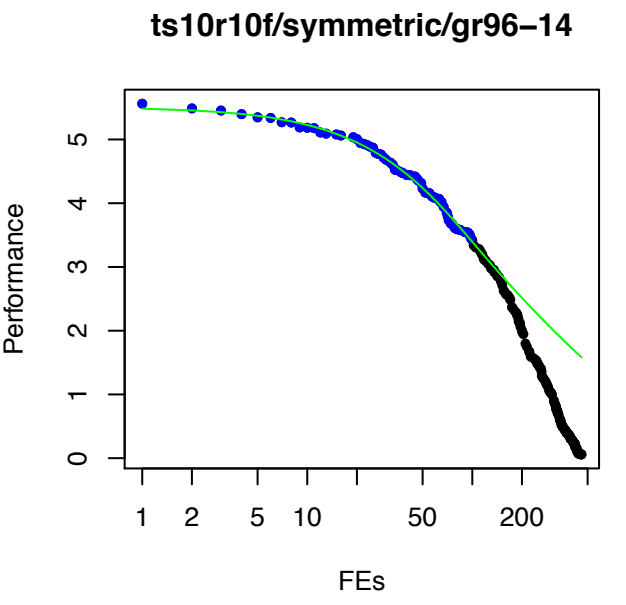
2
5
10
50
200
FEs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Performance
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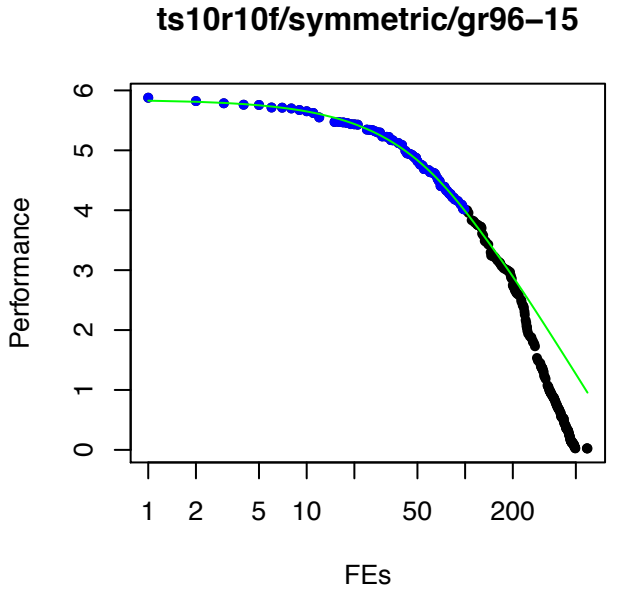
200
FEs


ts10r10f/symmetric/gr96−15
Performance
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10
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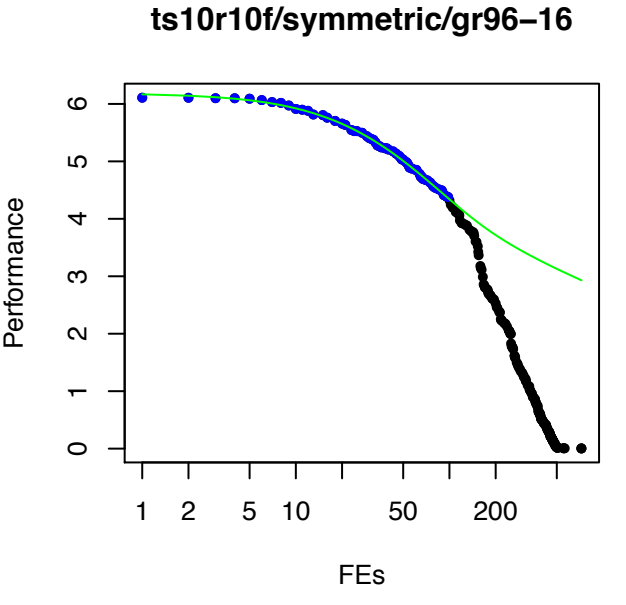
200
FEs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Performance
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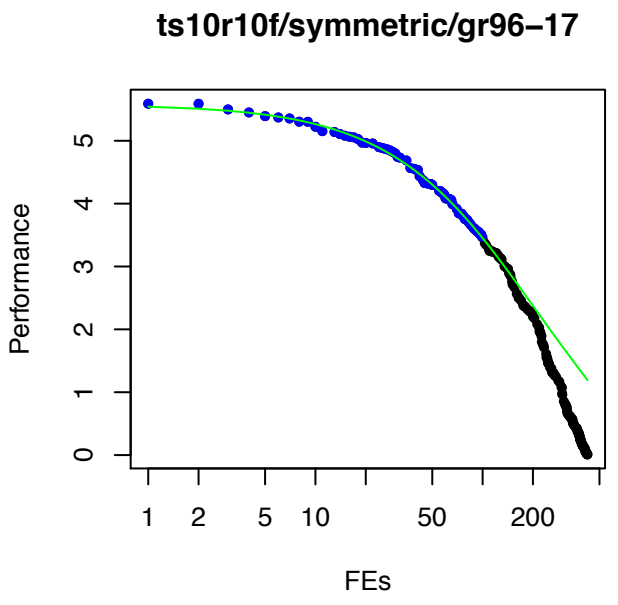
10
50
200
FEs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Performance
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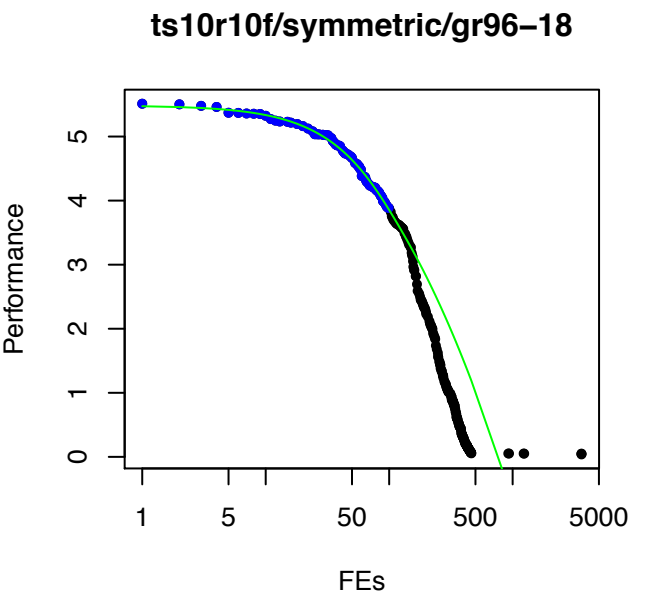
200
FEs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Performance
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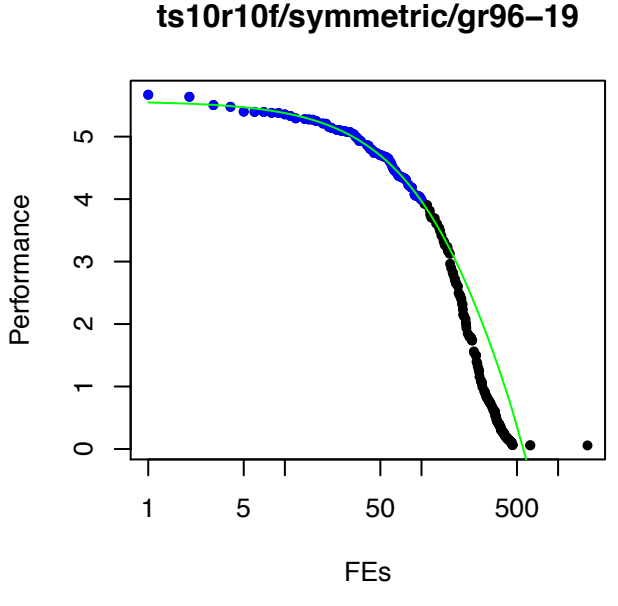
500
5000
FEs


ts10r10f/symmetric/gr96−19
Performance
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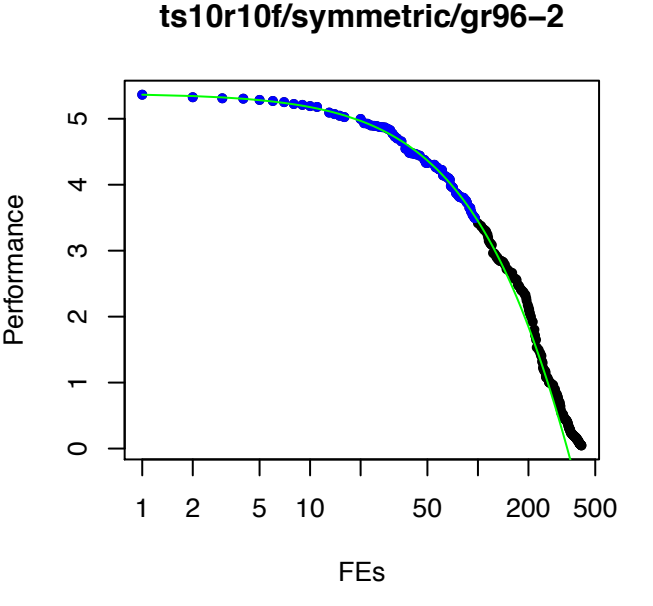
500
FEs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Performance
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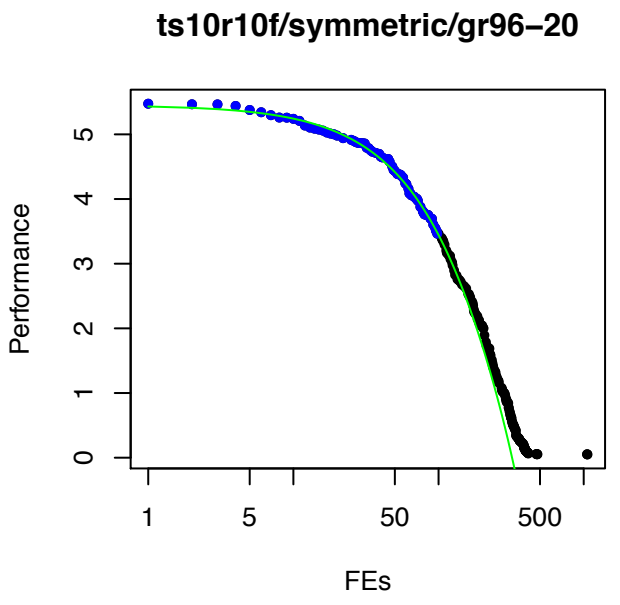
FEs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Performance
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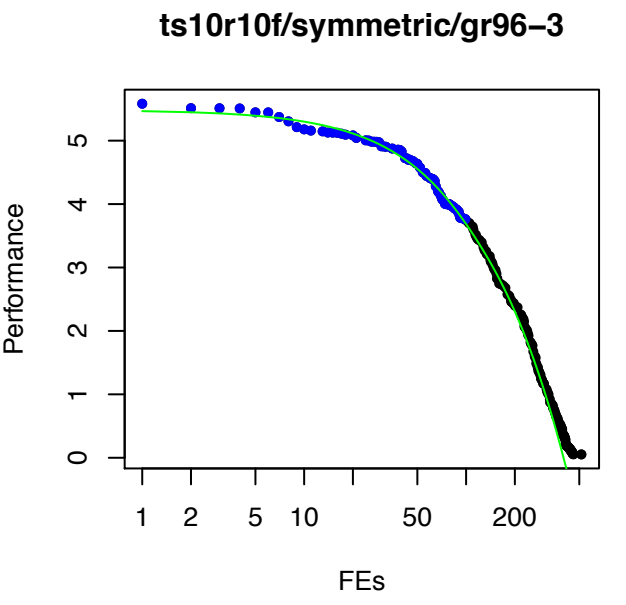
FEs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Performance
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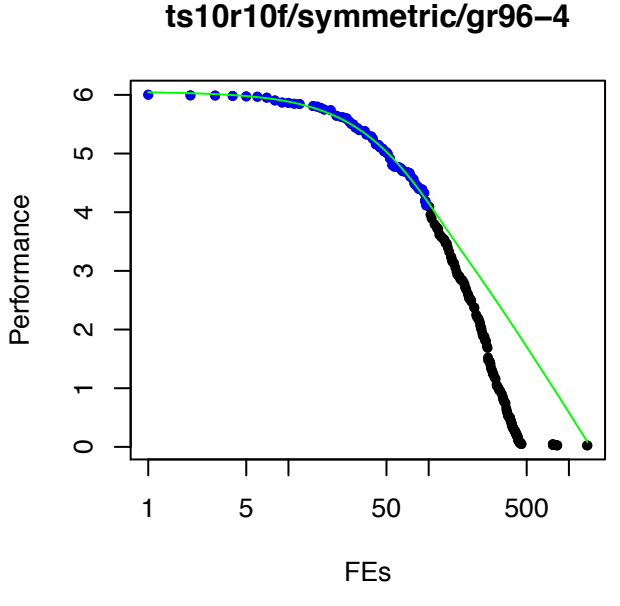
FEs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Performance
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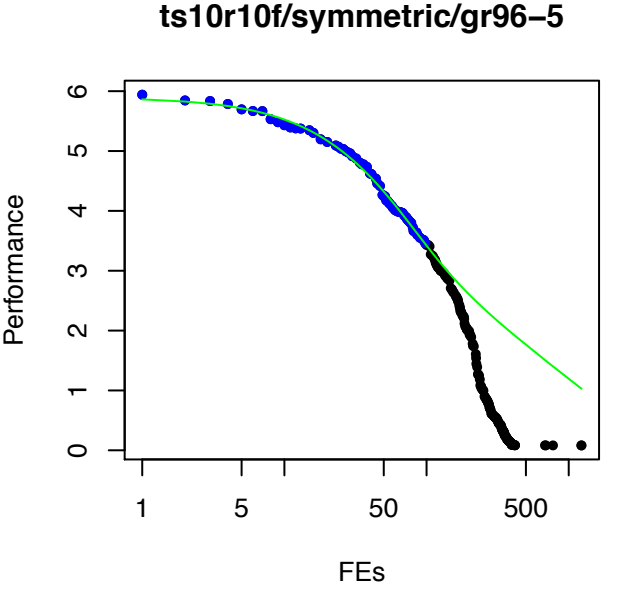
500
FEs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Performance
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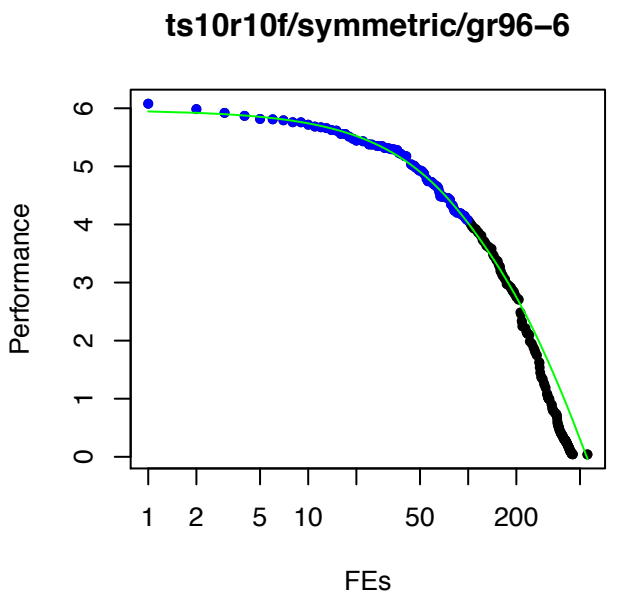
500
FEs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Performance
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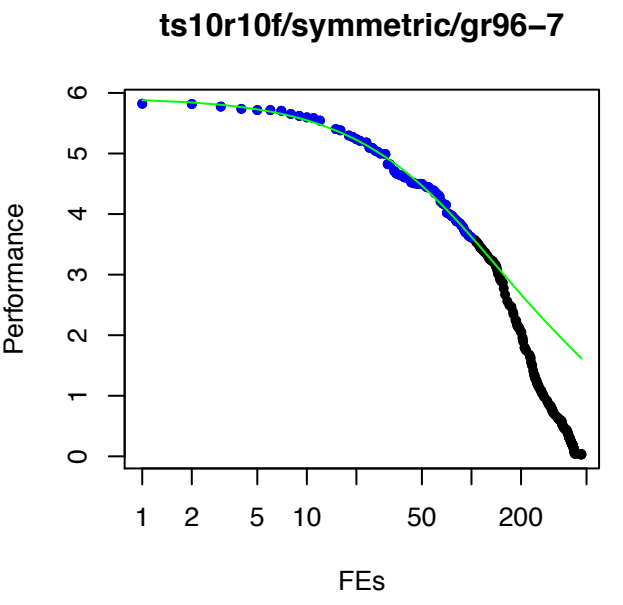
200
FEs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Performance
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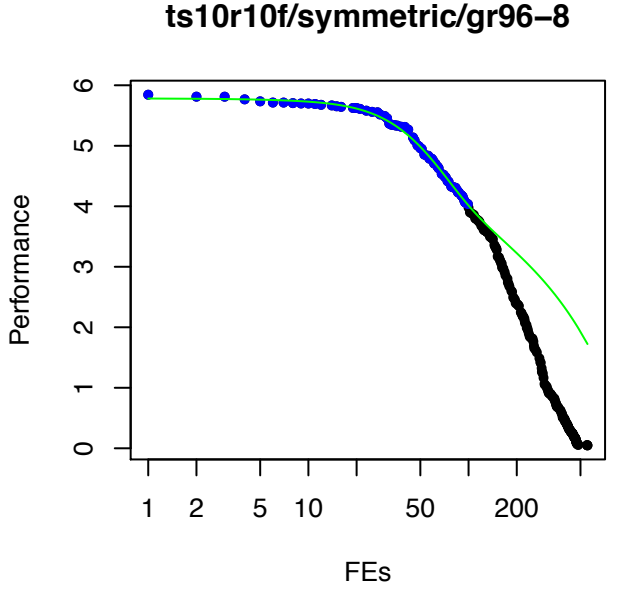
200
FEs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Performance
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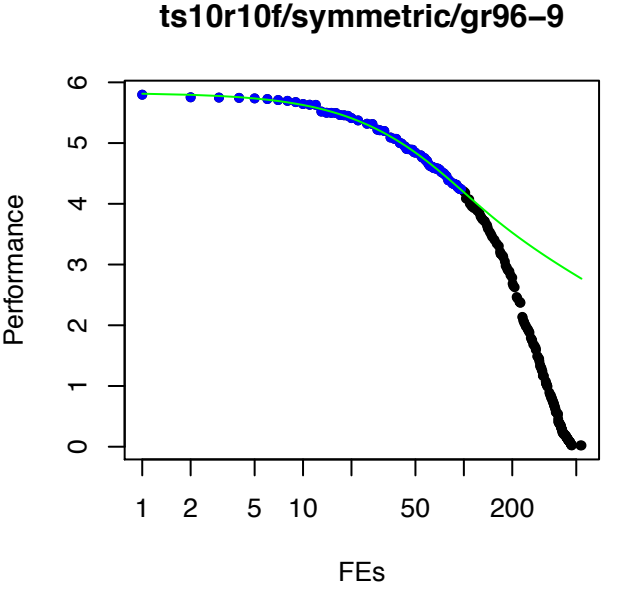
FEs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Performance
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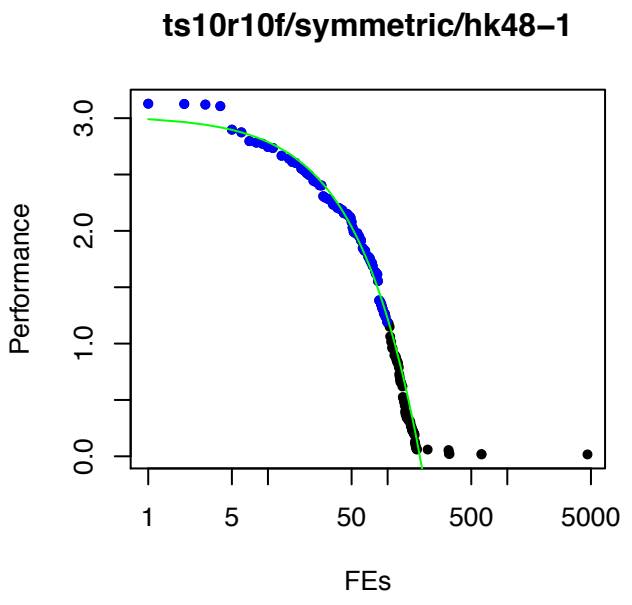
FEs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Performance
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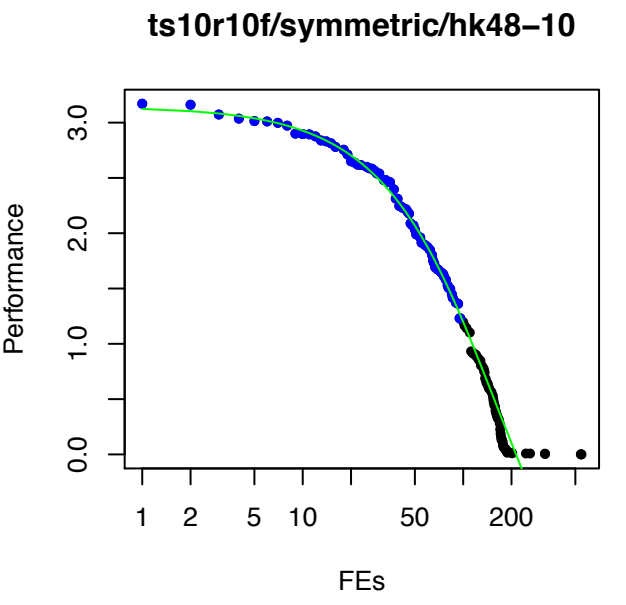
5000
FEs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Performance
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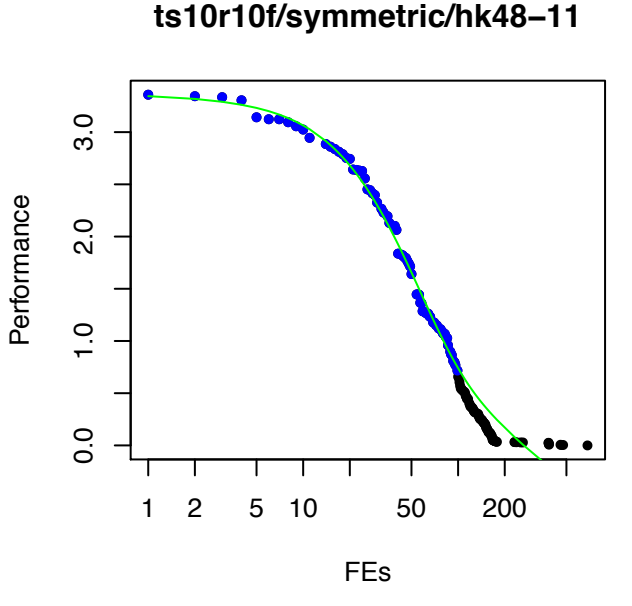
FEs


ts10r10f/symmetric/hk48−11
Performance
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3.0
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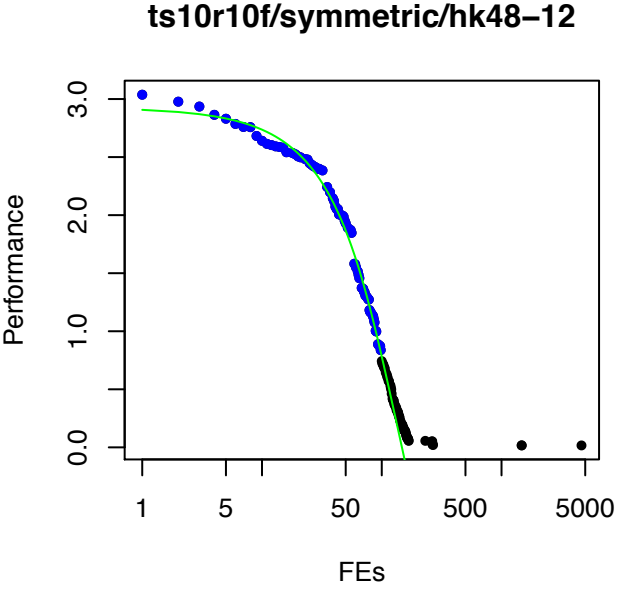
200
FEs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Performance
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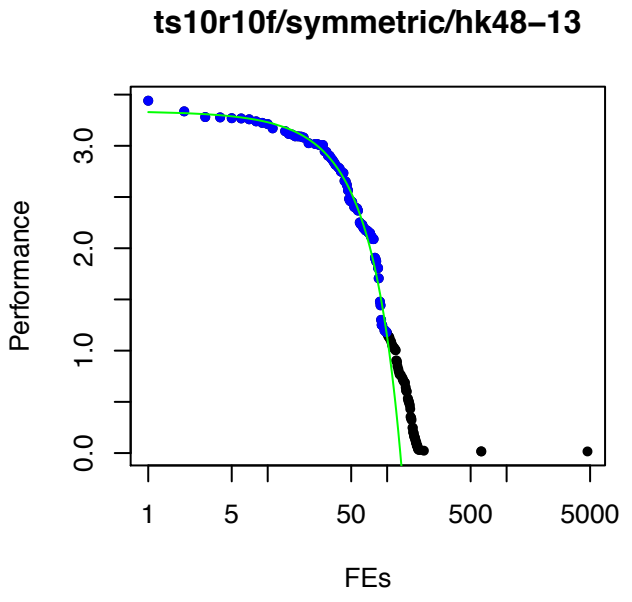
500
5000
FEs


ts10r10f/symmetric/hk48−13
Performance
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3.0
1
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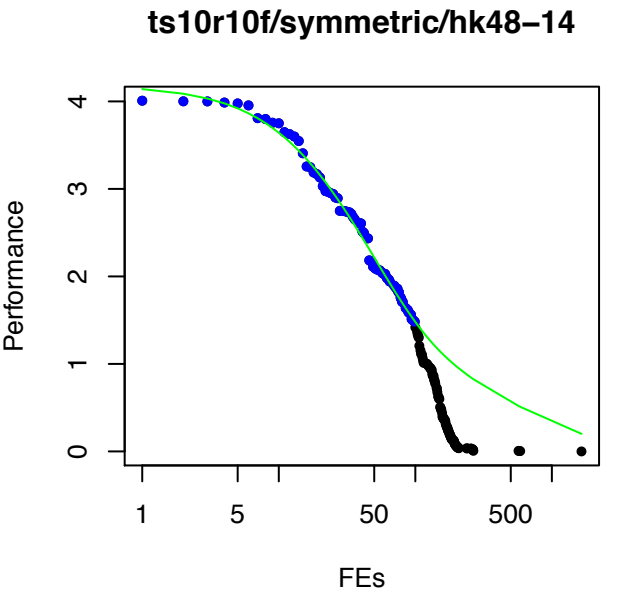
500
5000
FEs


ts10r10f/symmetric/hk48−14
Performance
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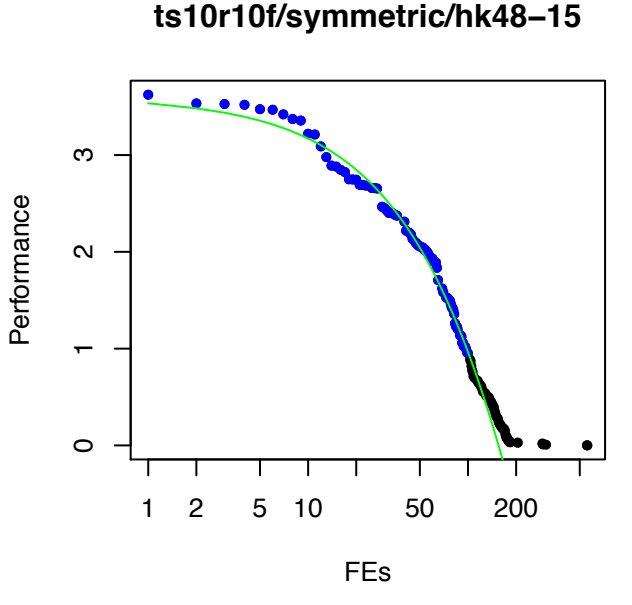
FEs


ts10r10f/symmetric/hk48−15
Performance
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2
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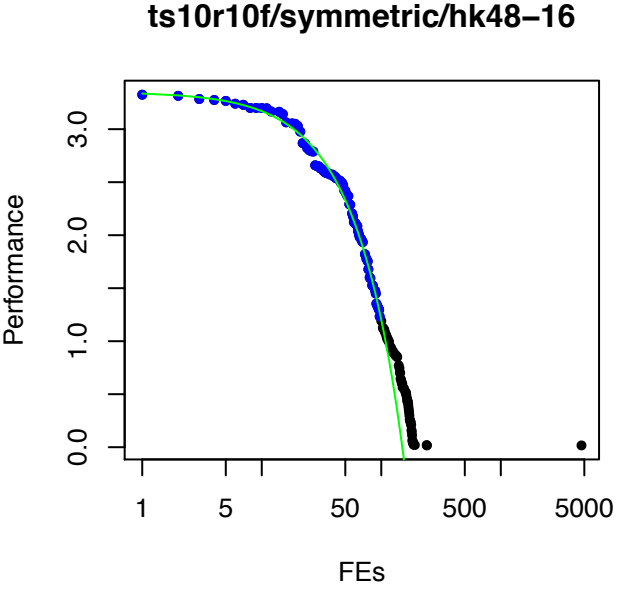
200
FEs


ts10r10f/symmetric/hk48−16
Performance
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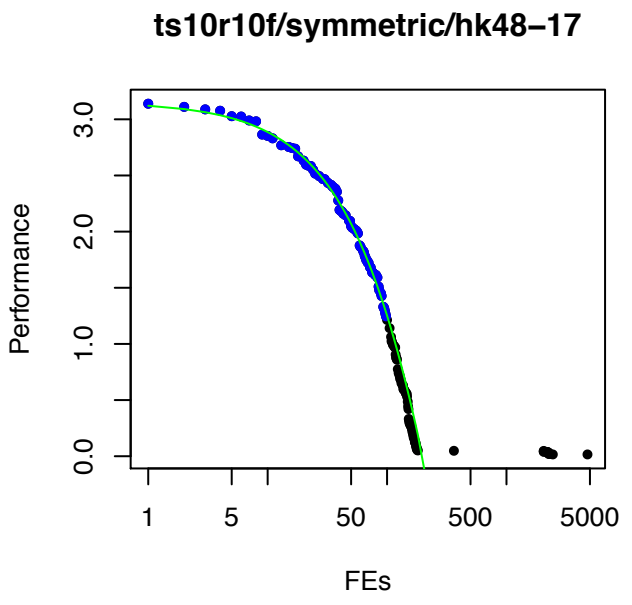
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts10r10f/symmetric/hk48−17
Performance
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1.0
2.0
3.0
1
5
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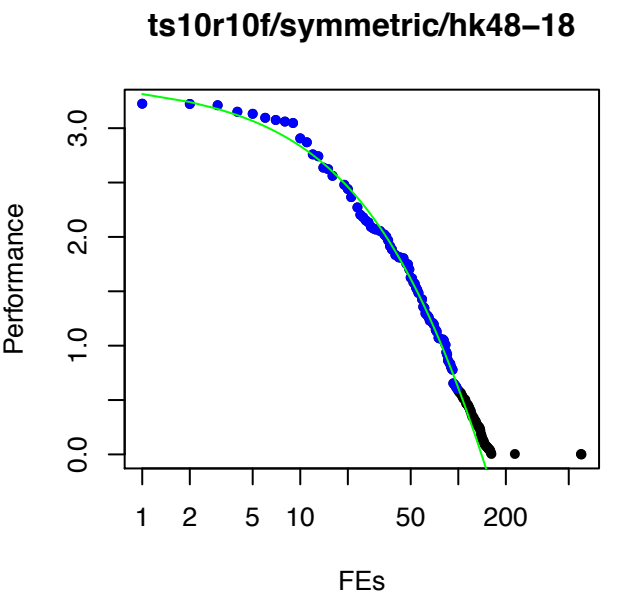
500
5000
FEs


ts10r10f/symmetric/hk48−18
Performance
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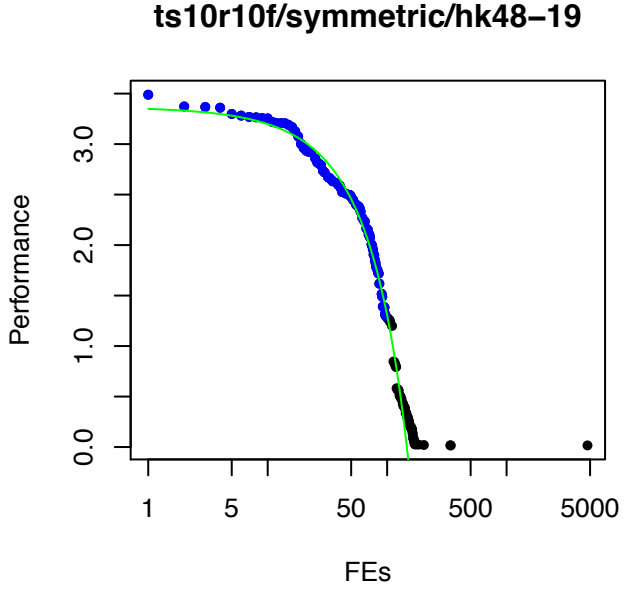
1.0
2.0
3.0
1
2
5
10
50
200
FEs


ts10r10f/symmetric/hk48−19
Performance
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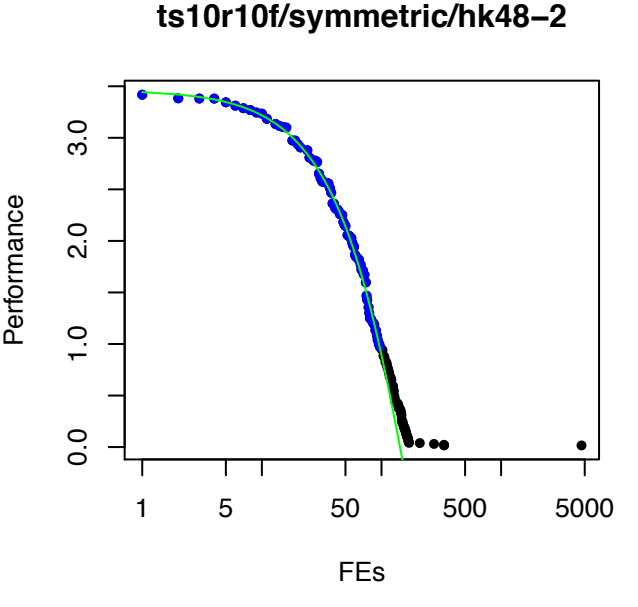
3.0
1
5
50
500
5000
FEs


ts10r10f/symmetric/hk48−2
Performance
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3.0
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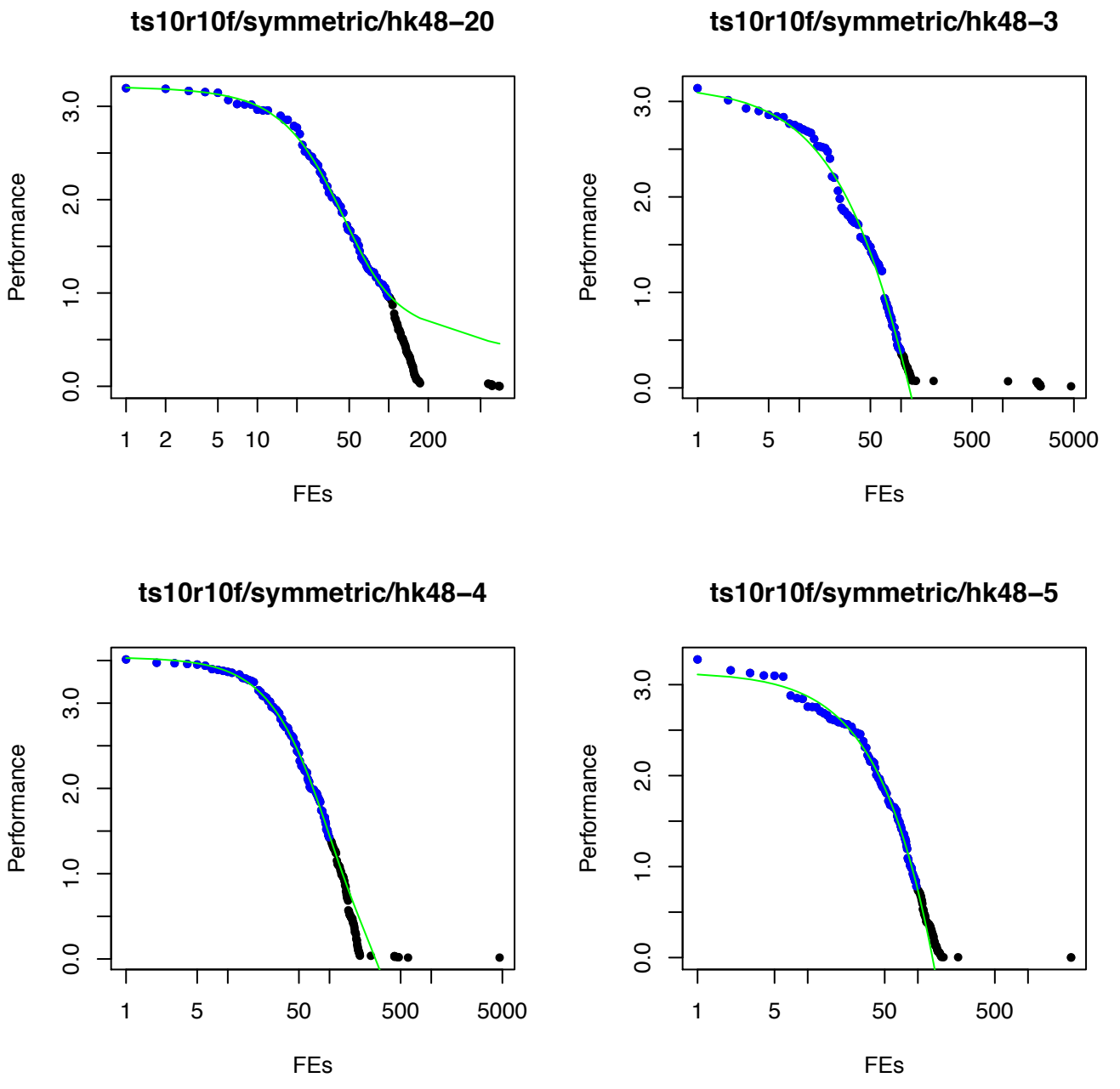
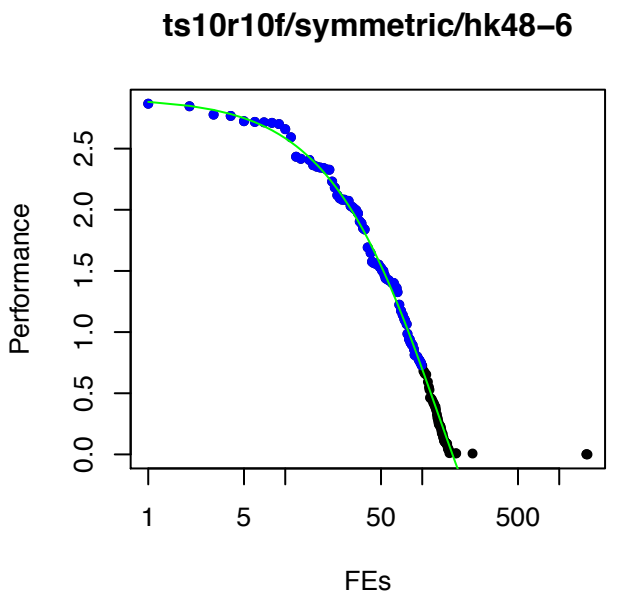
5
50
500
5000
FEs


ts10r10f/symmetric/hk48−20
ts10r10f/symmetric/hk48−3
ts10r10f/symmetric/hk48−4
ts10r10f/symmetric/hk48−5
Performance
FEs
0.0
1.0
2.0
3.0
1
2
5
10
50
200
500
5000


ts10r10f/symmetric/hk48−6
Performance
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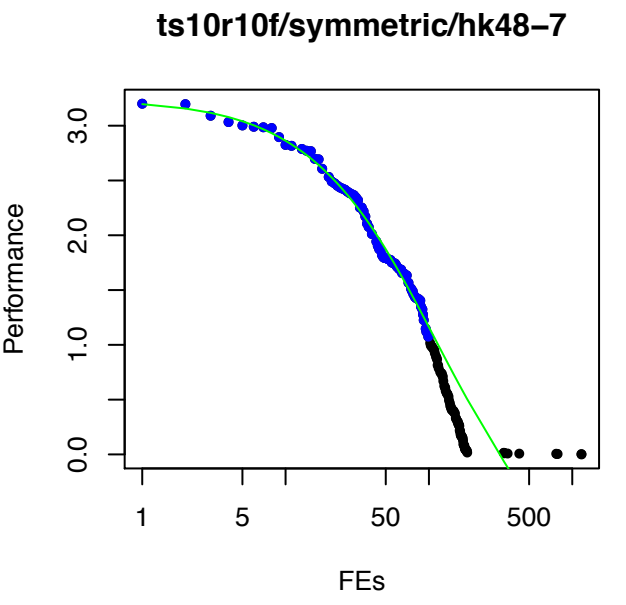
1.0
1.5
2.0
2.5
1
5
50
500
FEs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Performance
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3.0
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5
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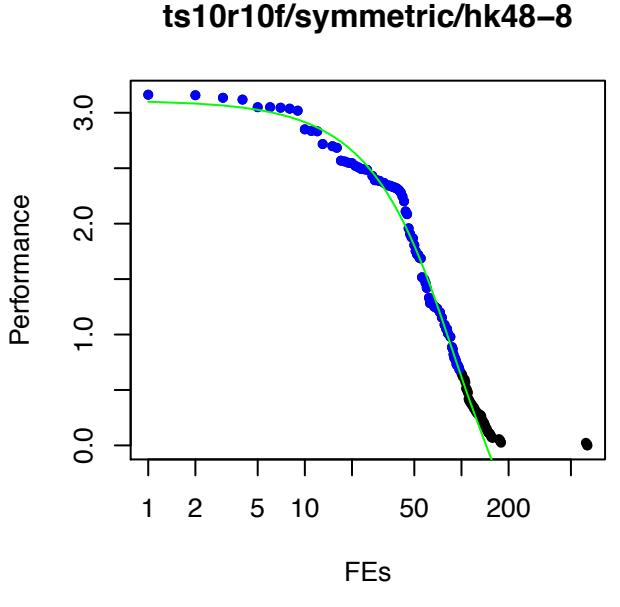
500
FEs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Performance
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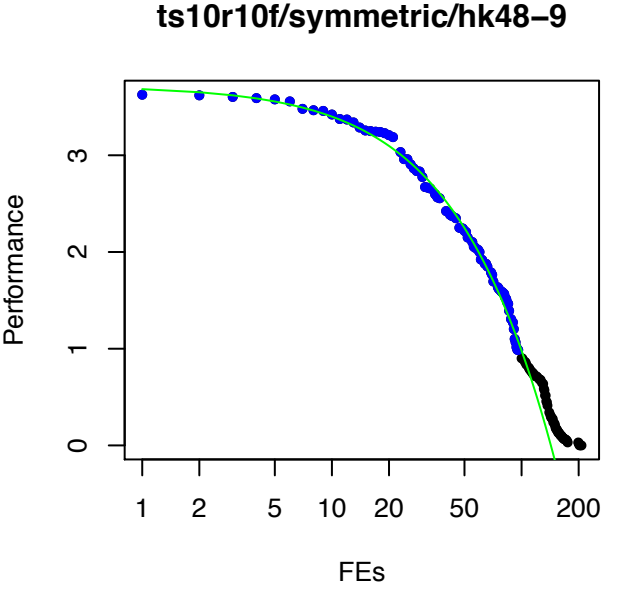
1
2
5
10
50
200
FEs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Performance
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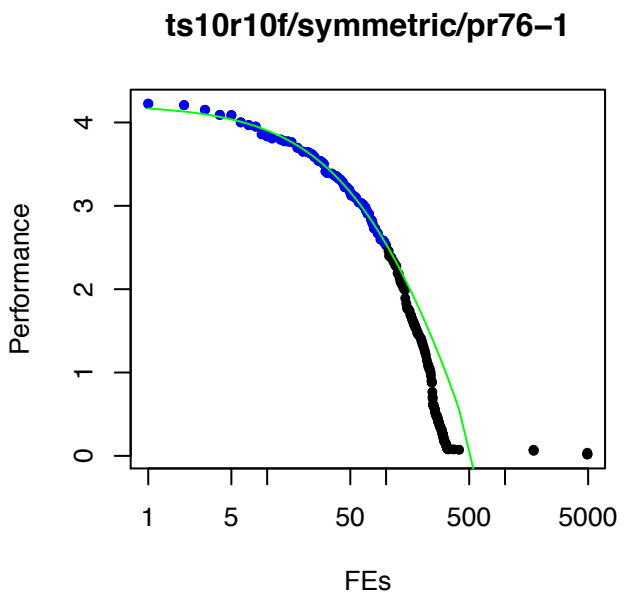
1
2
5
10
20
50
200
FEs


ts10r10f/symmetric/pr76−1
Performance
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3
4
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5
50
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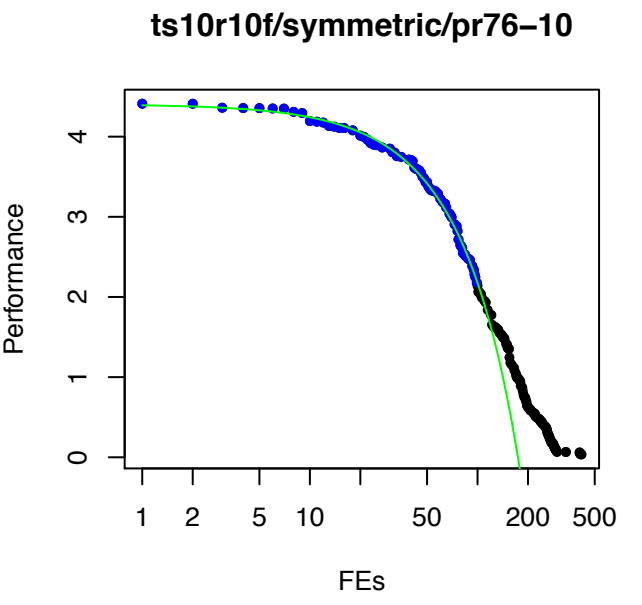
5000
FEs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Performance
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3
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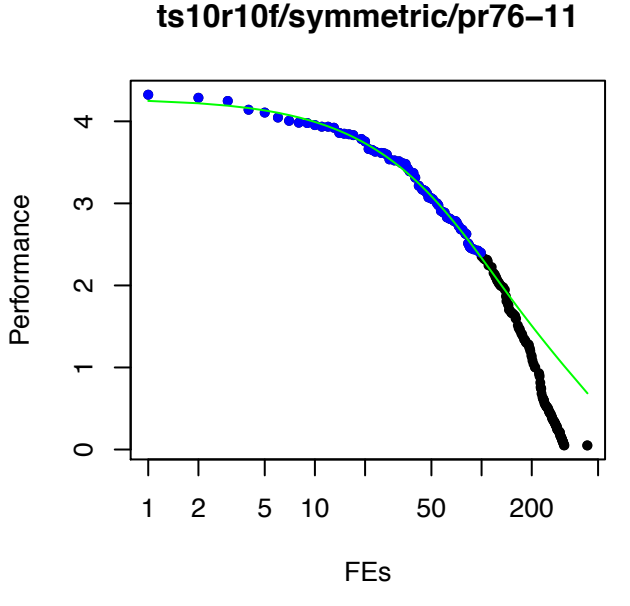
1
2
5
10
50
200
500
FEs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Performance
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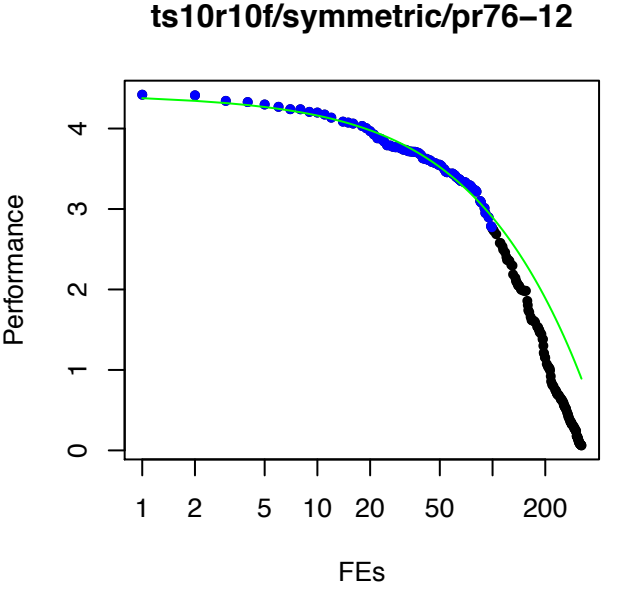
2
3
4
1
2
5
10
50
200
FEs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Performance
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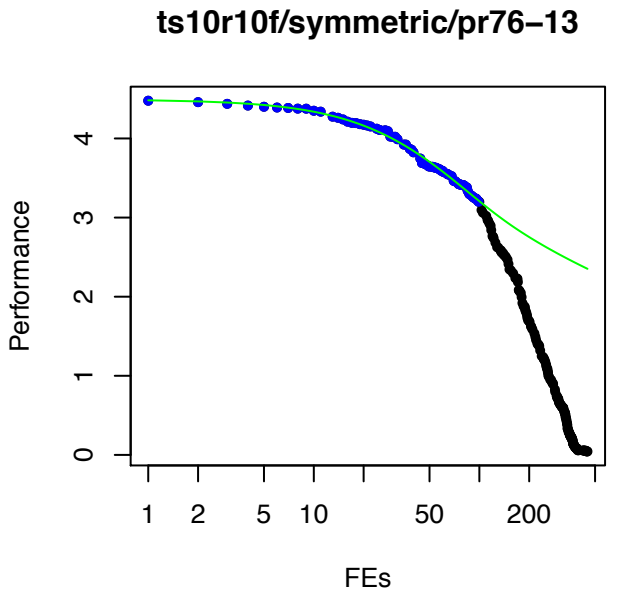
3
4
1
2
5
10
20
50
200
FEs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Performance
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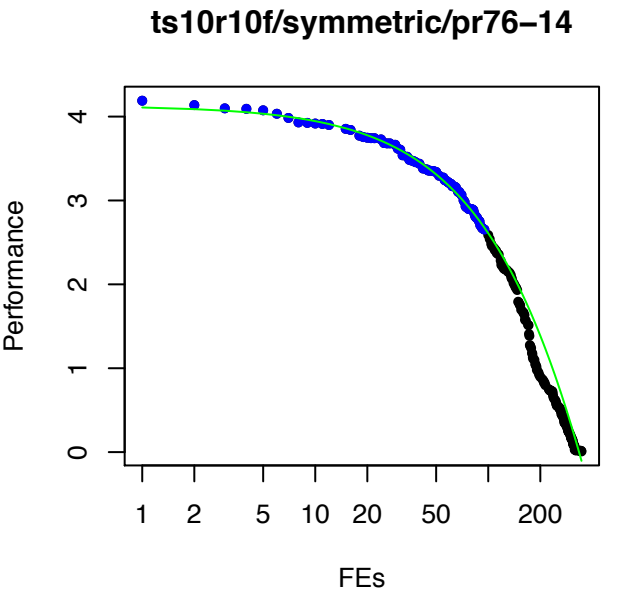
2
3
4
1
2
5
10
50
200
FEs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Performance
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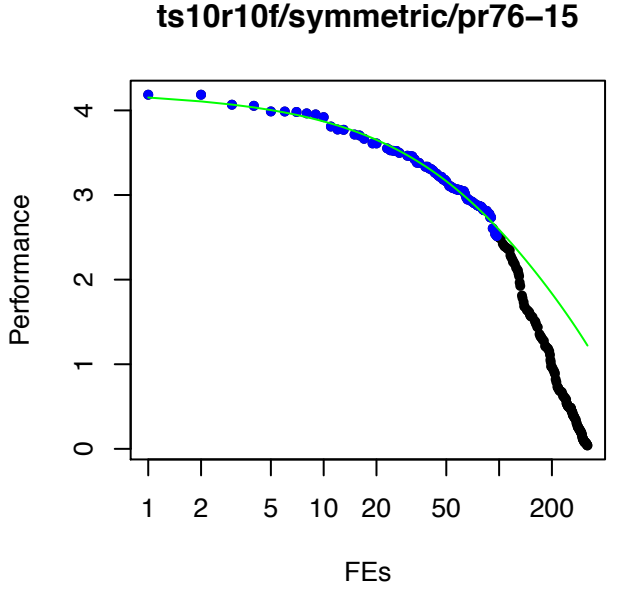
20
50
200
FEs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Performance
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2
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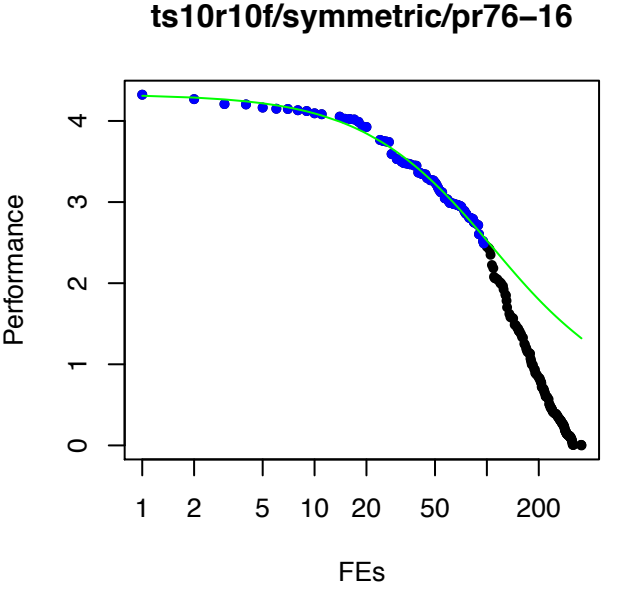
20
50
200
FEs


ts10r10f/symmetric/pr76−16
Performance
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2
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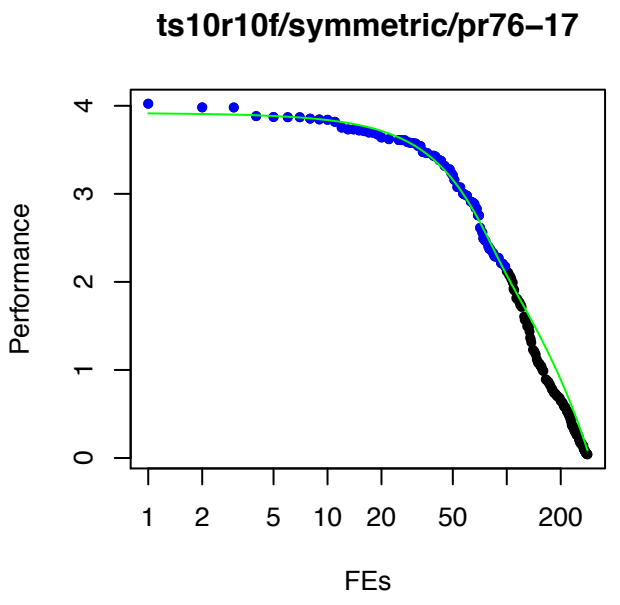
4
1
2
5
10
20
50
200
FEs


ts10r10f/symmetric/pr76−17
Performance
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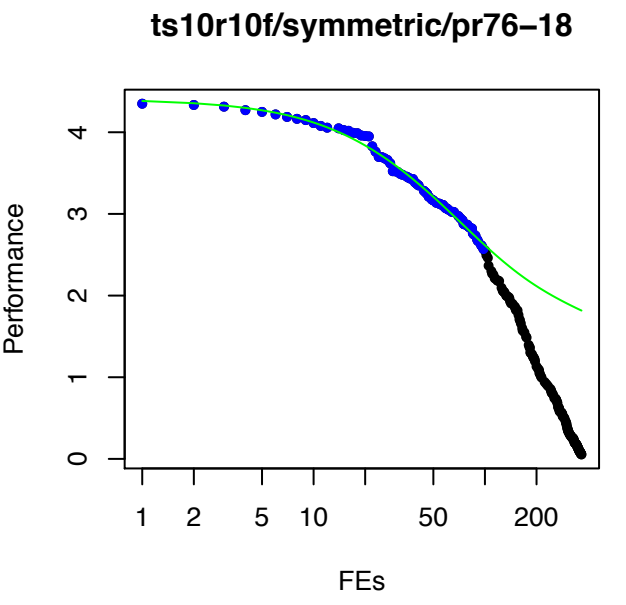
1
2
3
4
1
2
5
10
20
50
200
FEs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Performance
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2
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1
2
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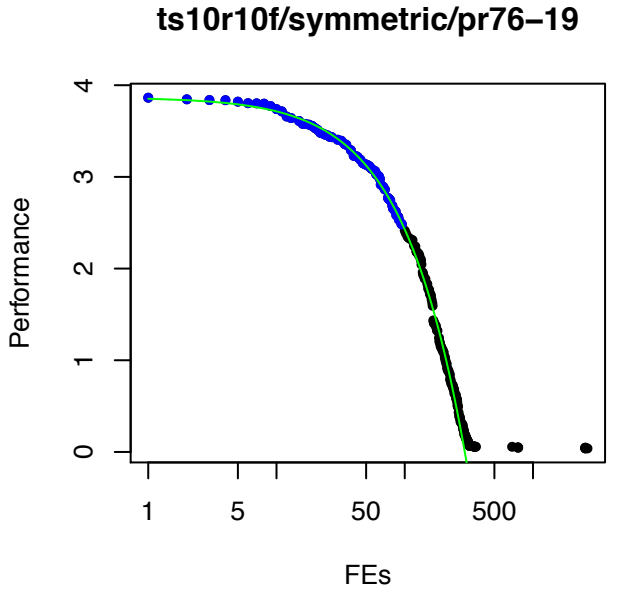
10
50
200
FEs


ts10r10f/symmetric/pr76−19
Performance
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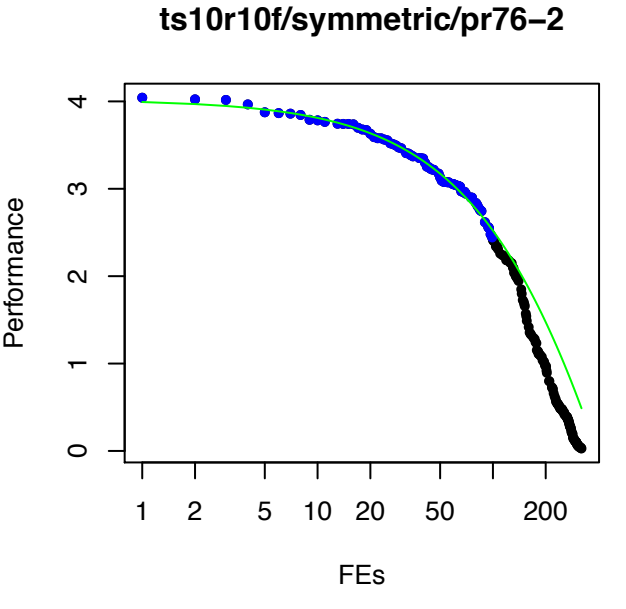
2
3
4
1
5
50
500
FEs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Performance
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2
3
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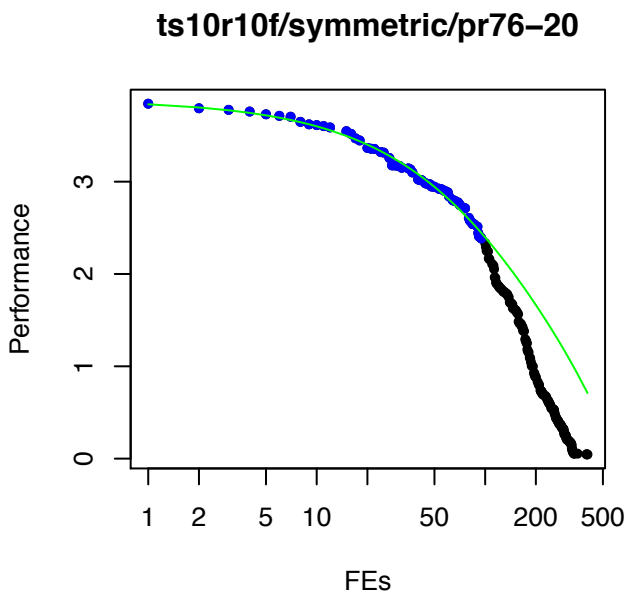
1
2
5
10
20
50
200
FEs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Performance
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2
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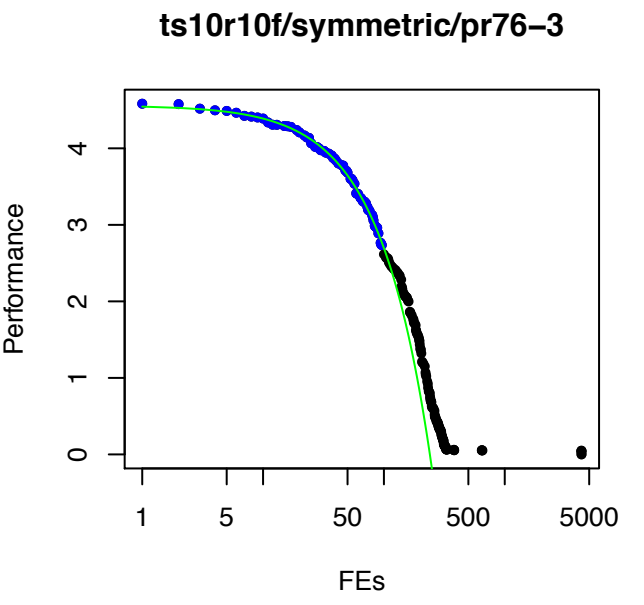
1
2
5
10
50
200
500
FEs


ts10r10f/symmetric/pr76−3
Performance
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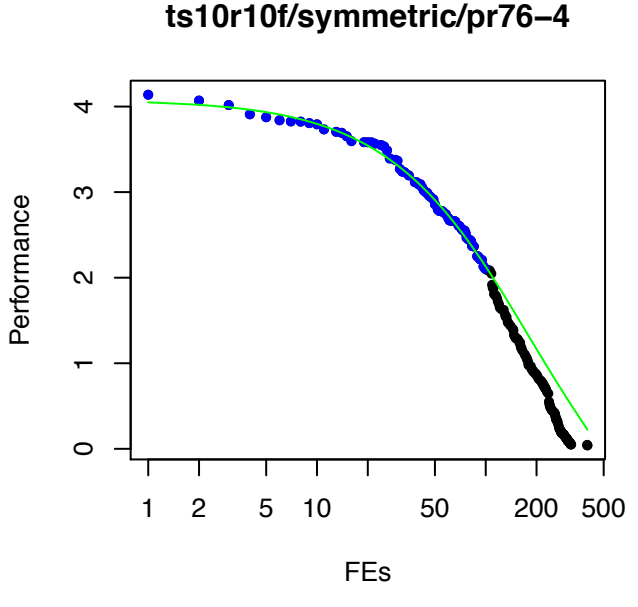
3
4
1
5
50
500
5000
FEs


ts10r10f/symmetric/pr76−4
Performance
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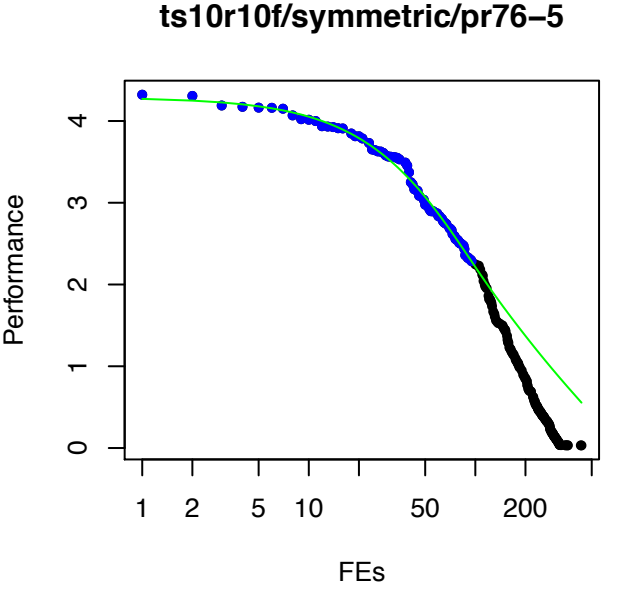
2
3
4
1
2
5
10
50
200
500
FEs


ts10r10f/symmetric/pr76−5
Performance
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4
1
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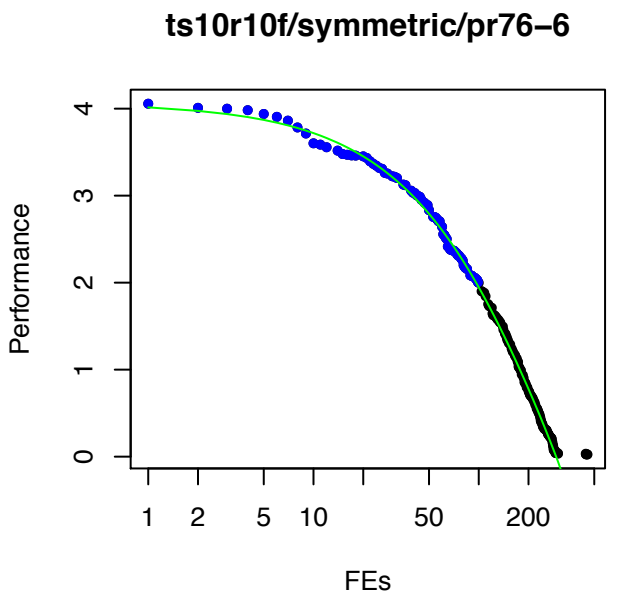
50
200
FEs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Performance
FEs
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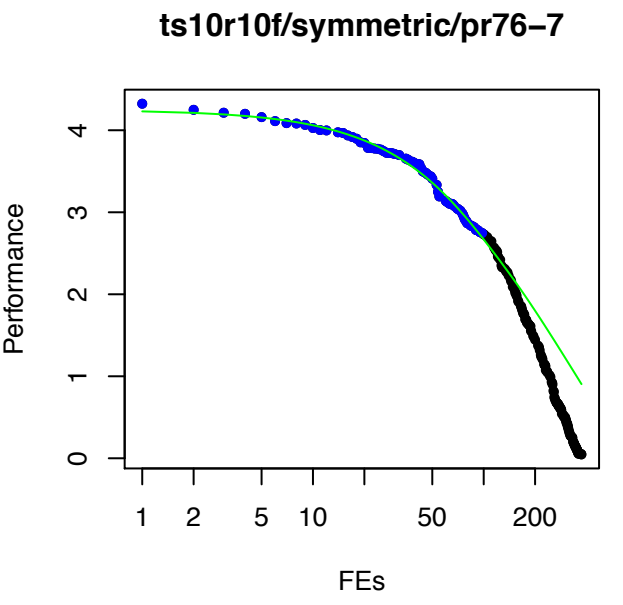
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Performance
FEs
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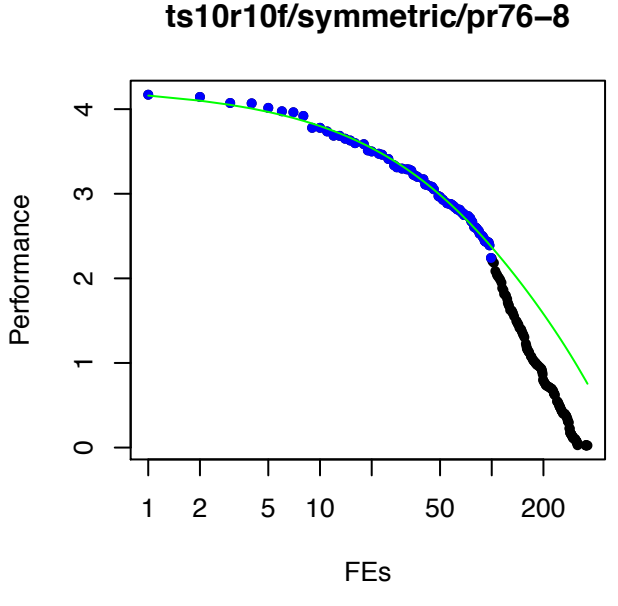
200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Performance
FEs
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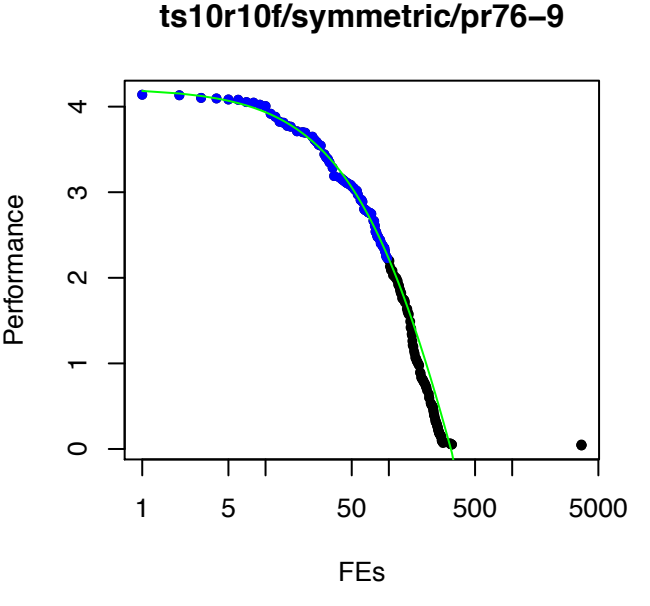
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Performance
FEs
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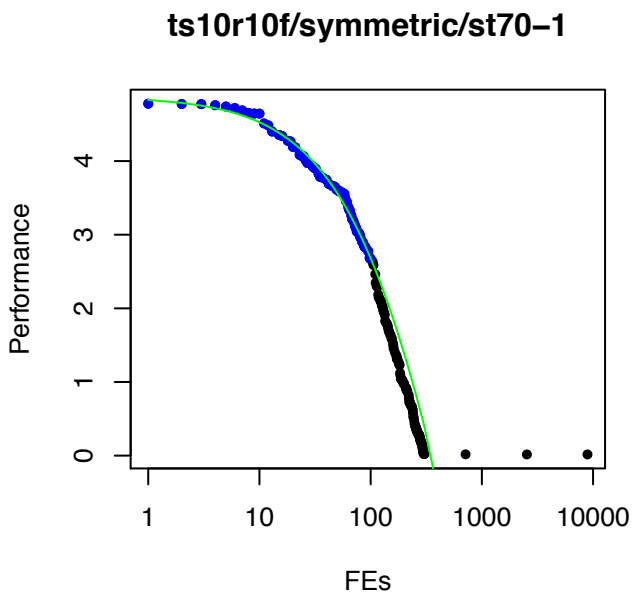
ts10r10f/symmetric/st70−1
Performance
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3
4
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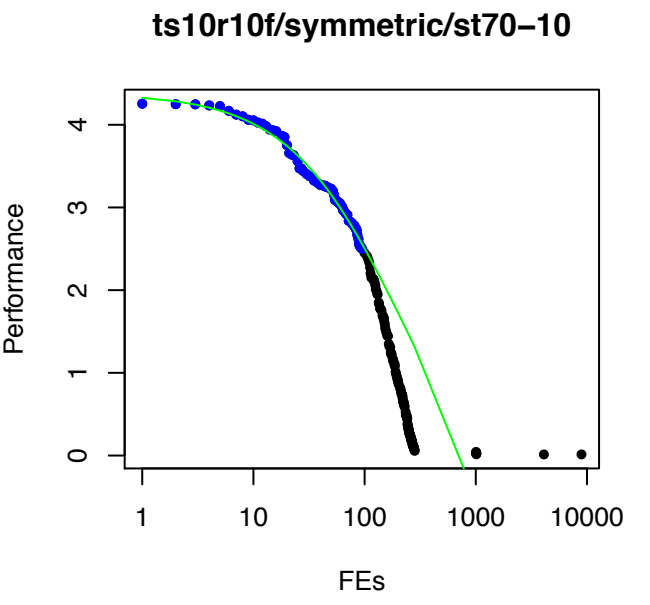
100
1000
10000
FEs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Performance
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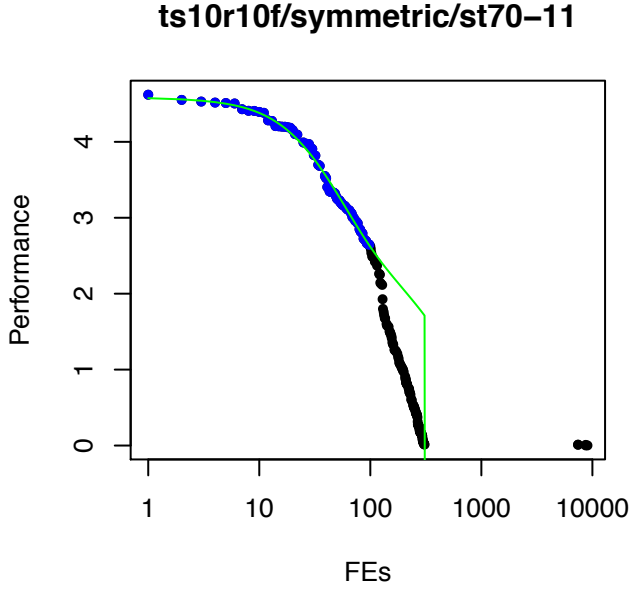
100
1000
10000
FEs


ts10r10f/symmetric/st70−11
Performance
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3
4
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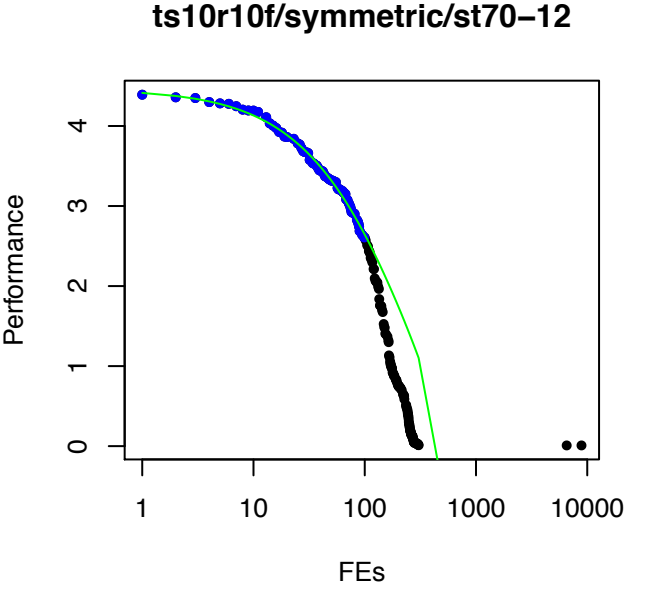
1000
10000
FEs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Performance
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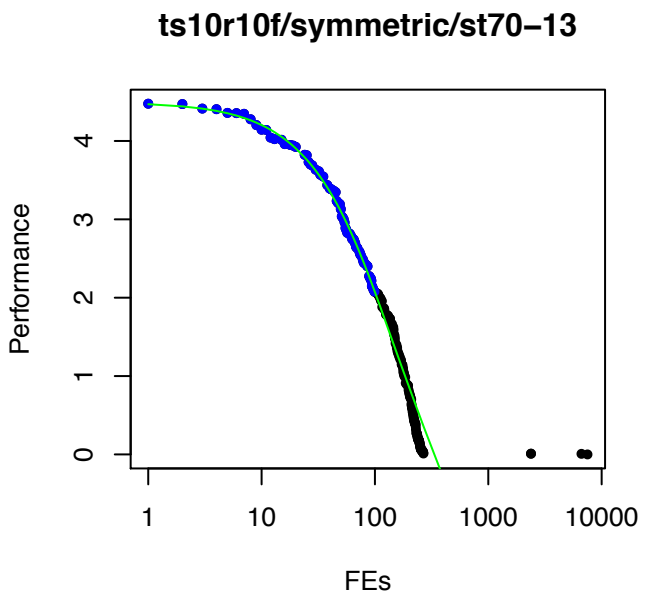
FEs


ts10r10f/symmetric/st70−13
Performance
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3
4
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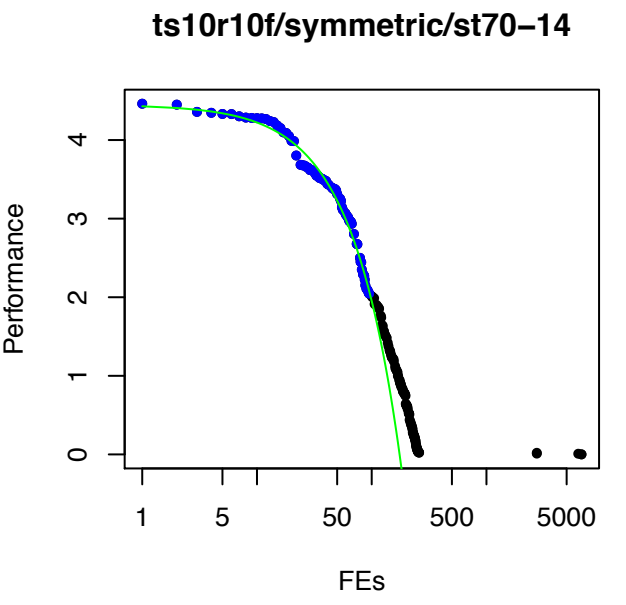
100
1000
10000
FEs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Performance
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50
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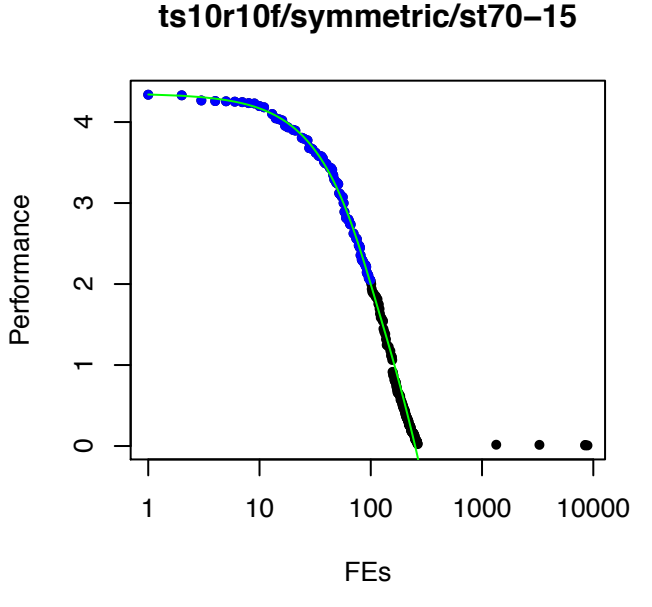
5000
FEs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Performance
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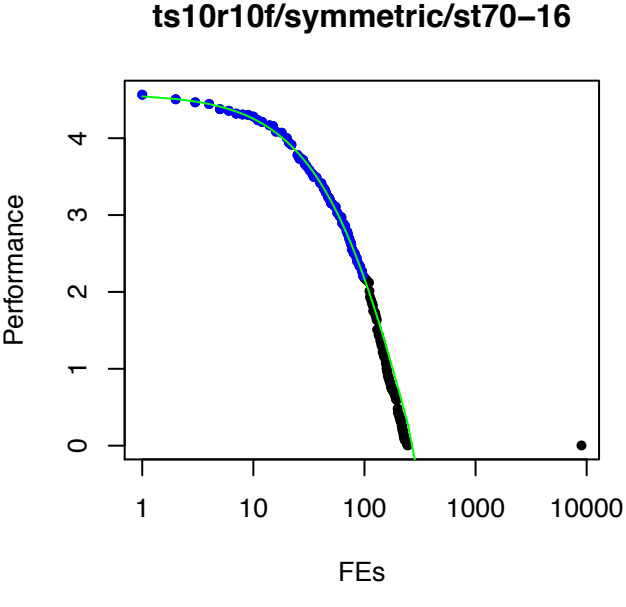
10000
FEs


ts10r10f/symmetric/st70−16
Performance
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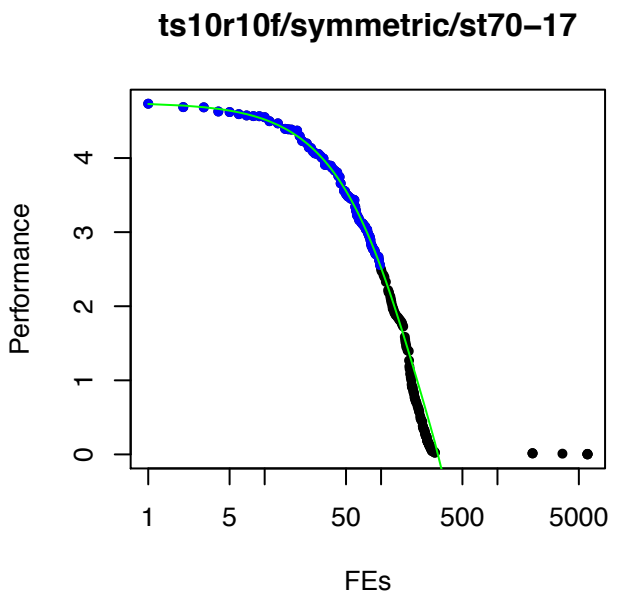
100
1000
10000
FEs


ts10r10f/symmetric/st70−17
Performance
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3
4
1
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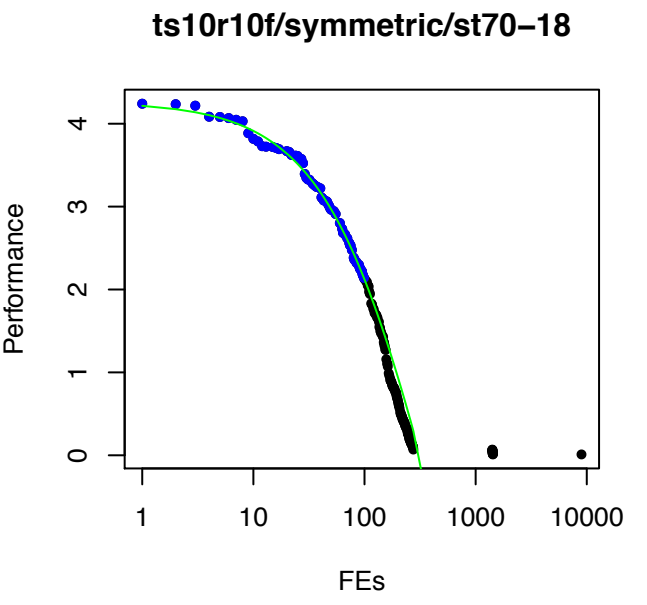
50
500
5000
FEs


ts10r10f/symmetric/st70−18
Performance
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100
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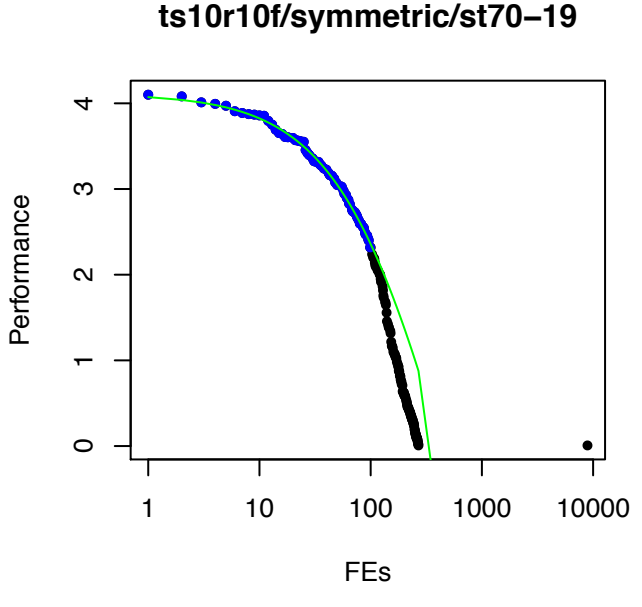
10000
FEs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Performance
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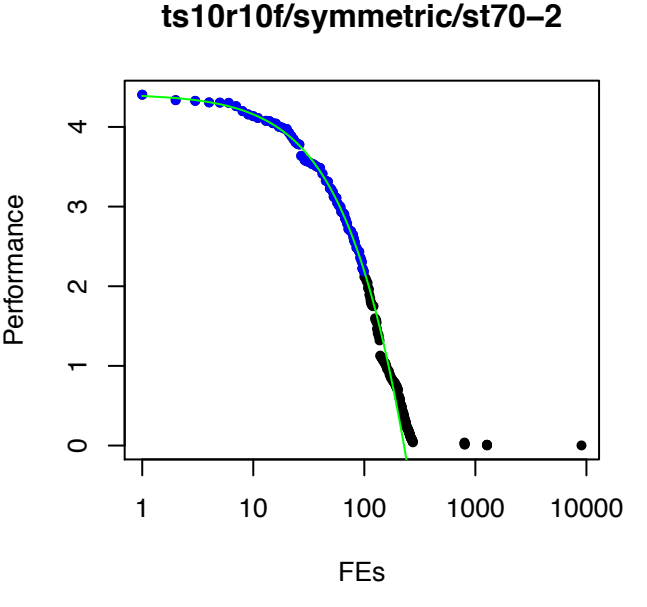
10000
FEs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Performance
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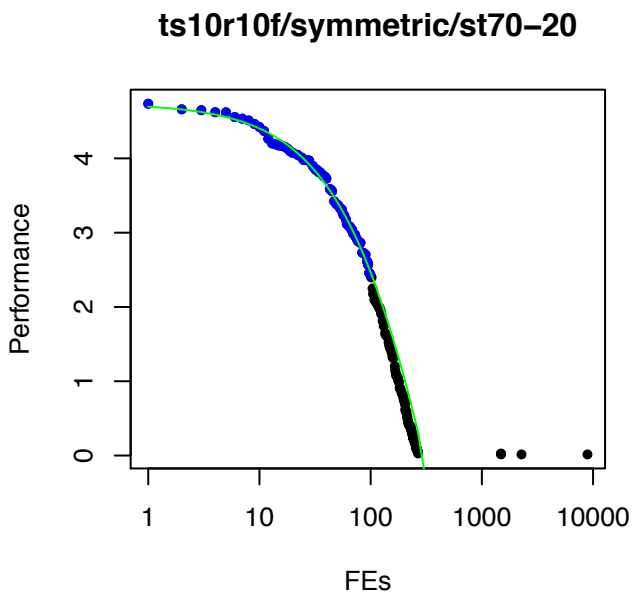
10000
FEs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Performance
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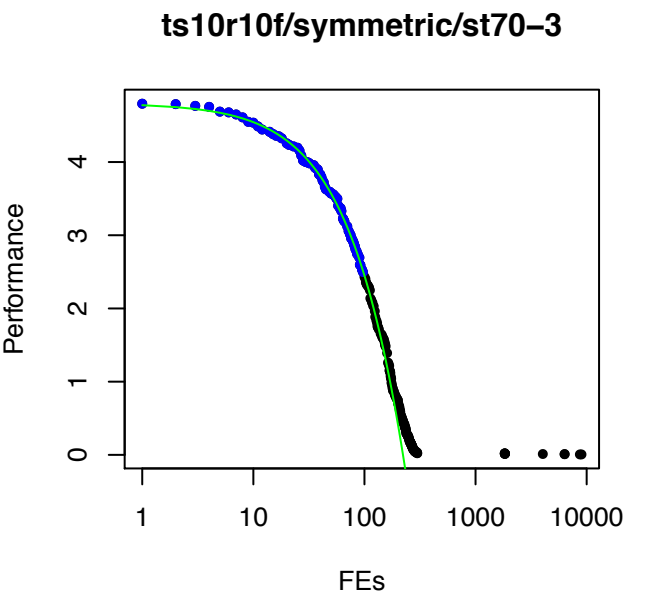
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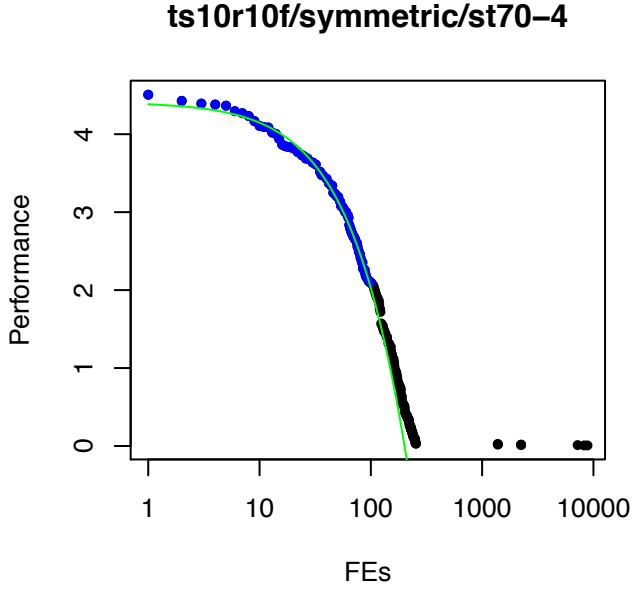
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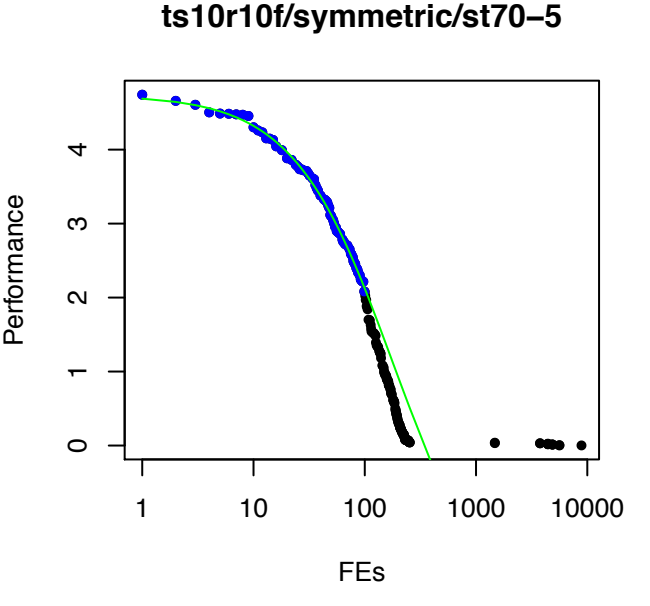
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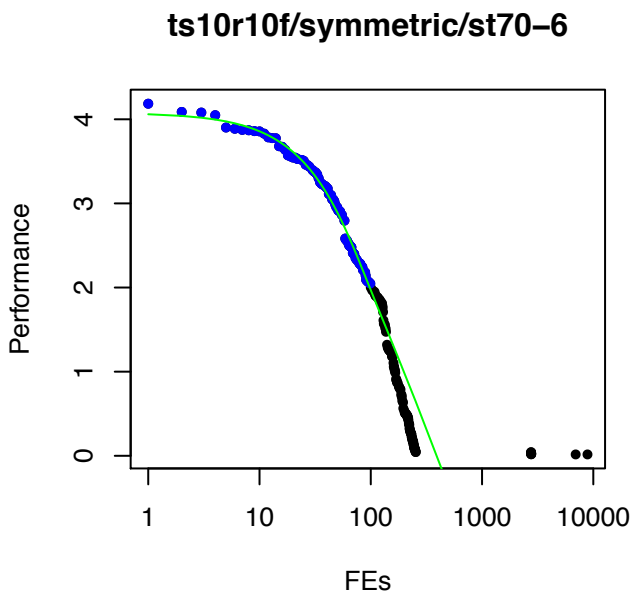
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Performance
FEs
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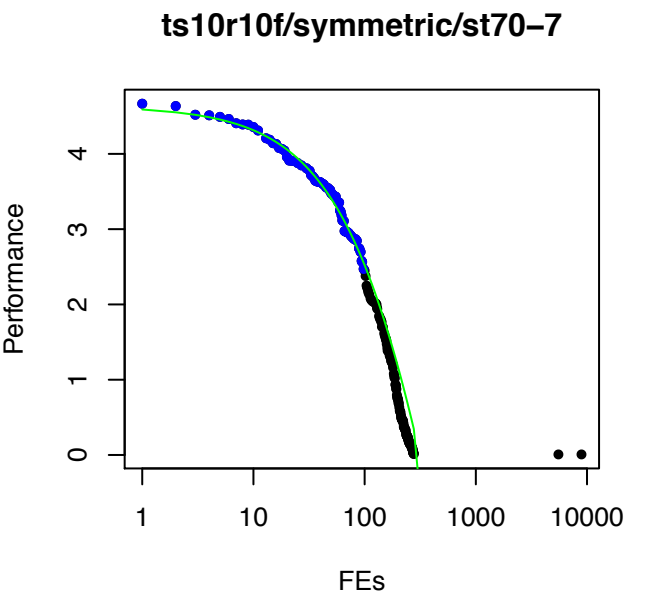
ts10r10f/symmetric/st70−7
Performance
FEs
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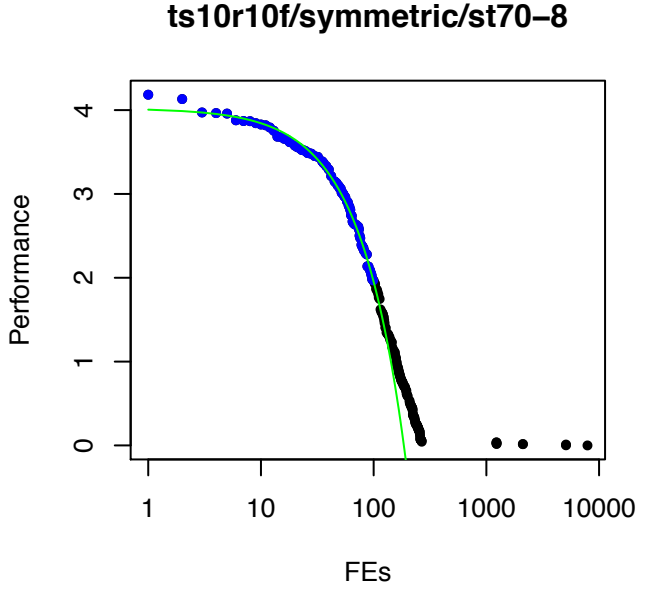
ts10r10f/symmetric/st70−8
Performance
FEs
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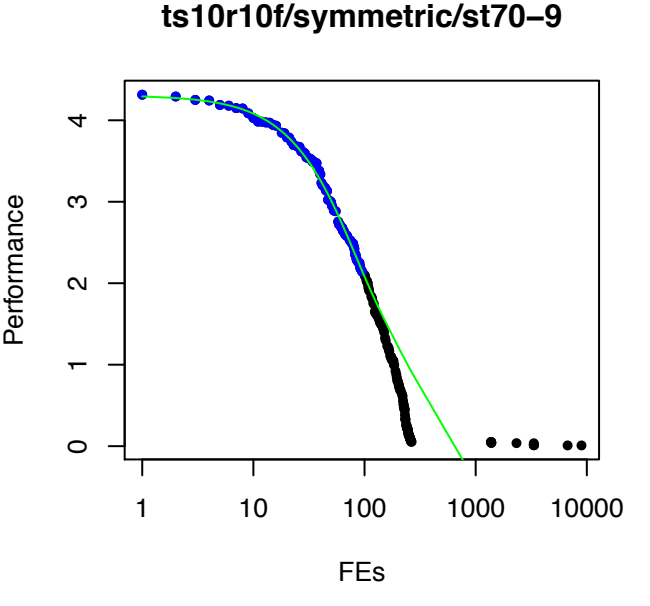
ts10r10f/symmetric/st70−9
Performance
FEs
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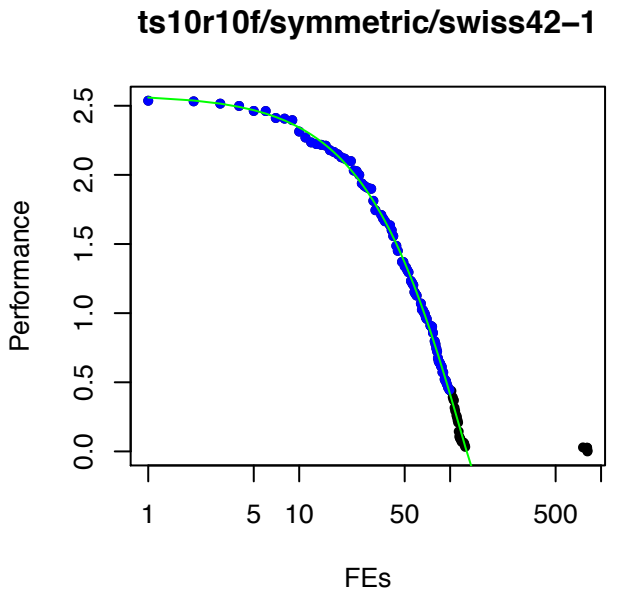
ts10r10f/symmetric/swiss42−1
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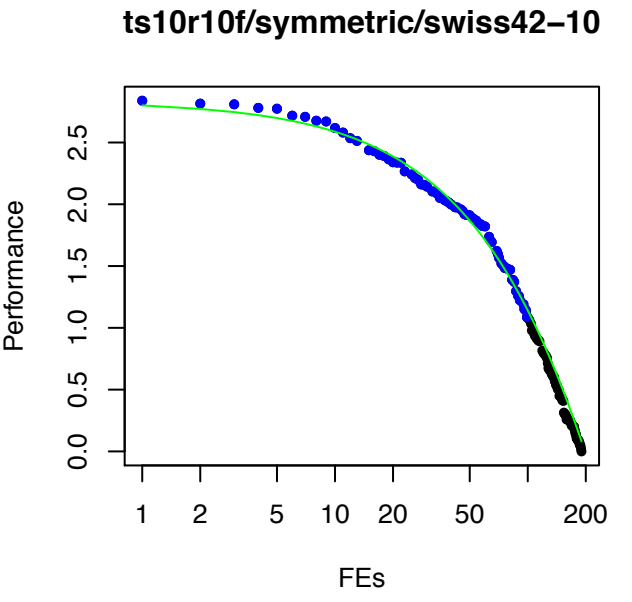
FEs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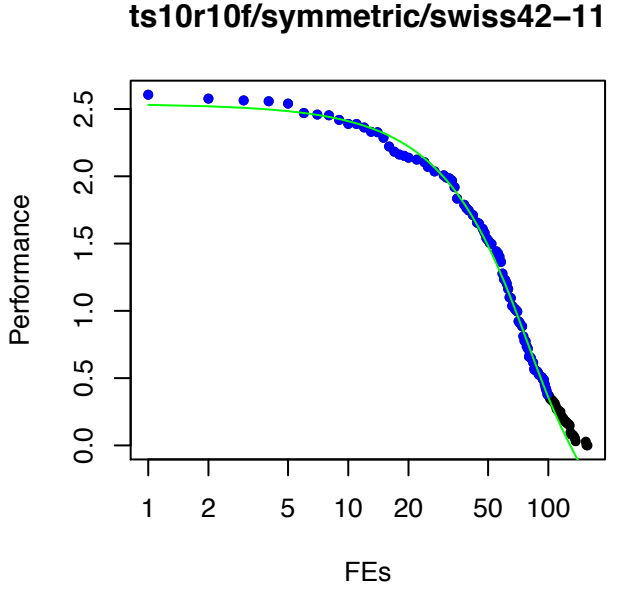
FEs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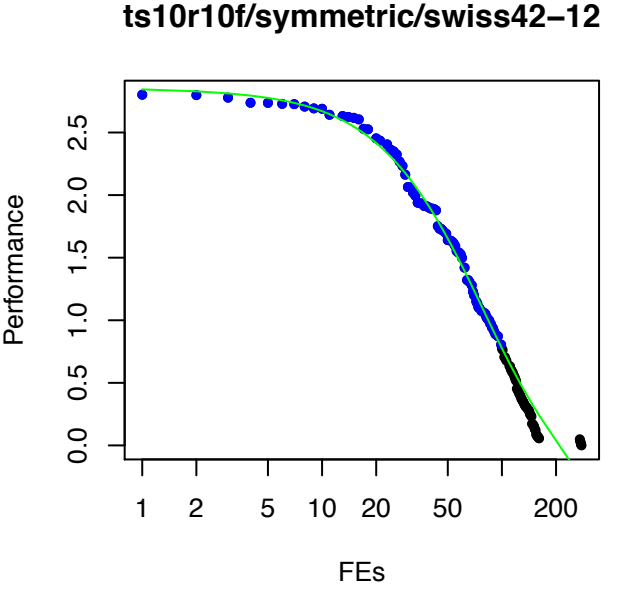
FEs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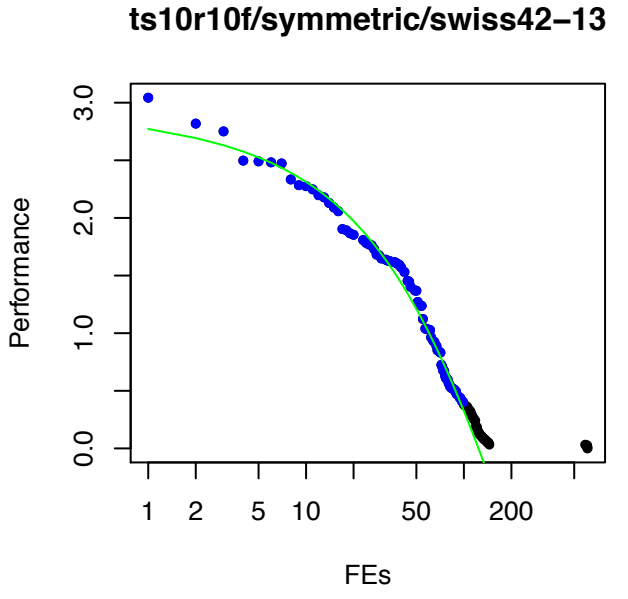
FEs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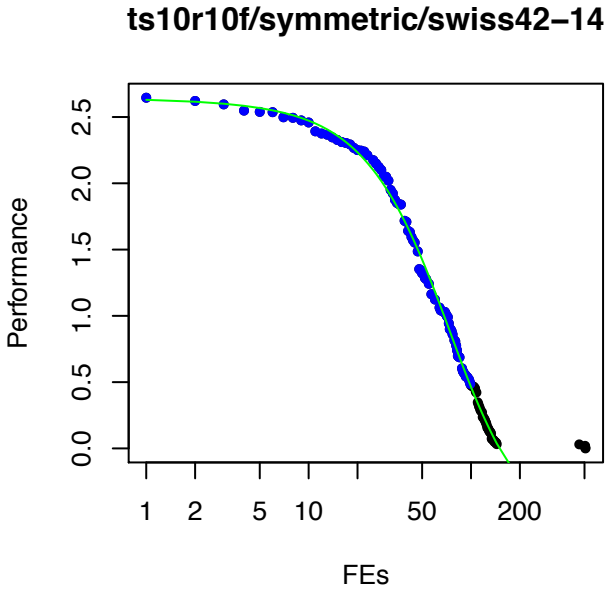
FEs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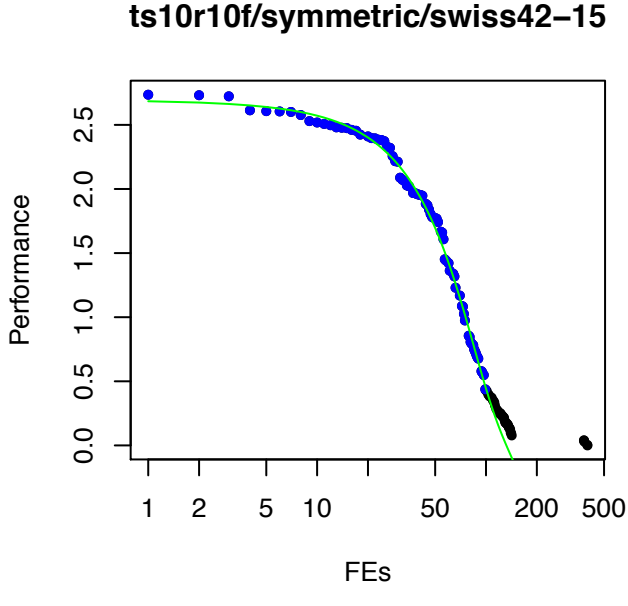
FEs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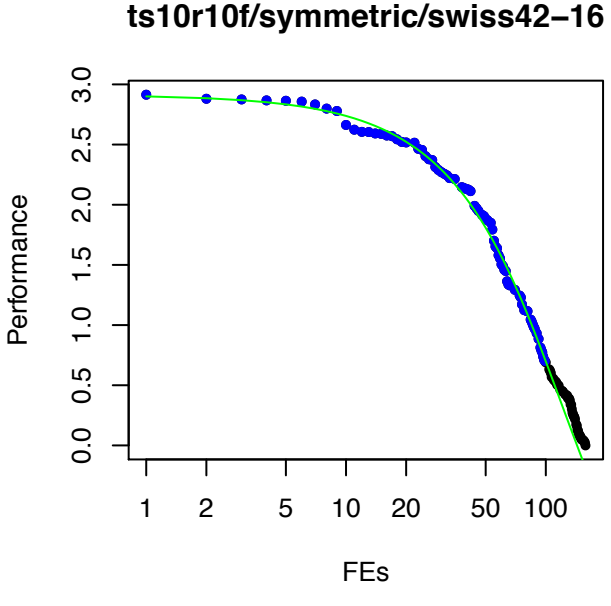
FEs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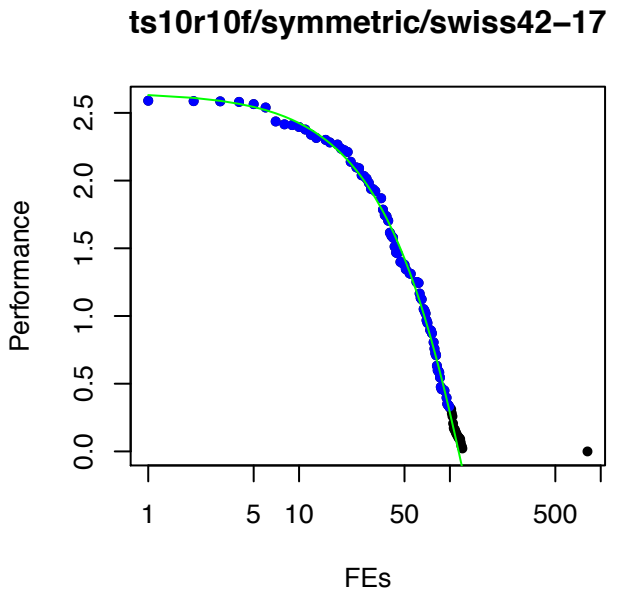
FEs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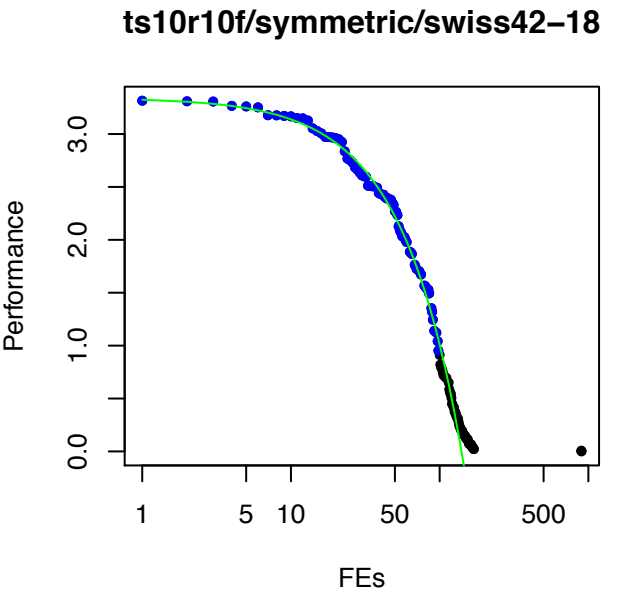
FEs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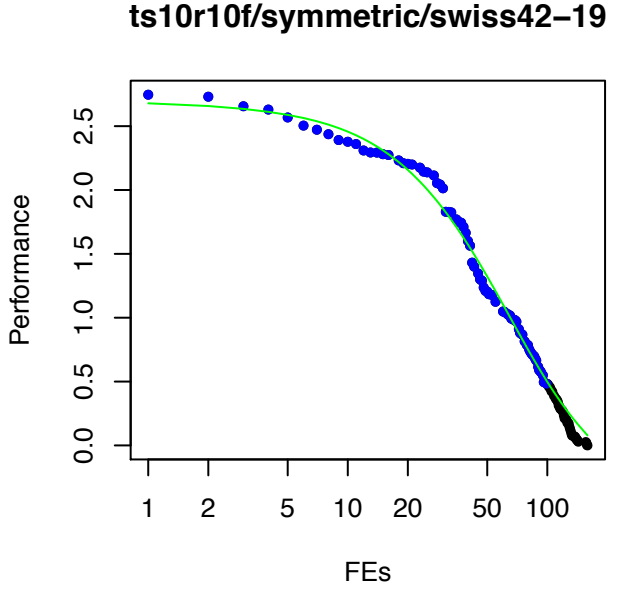
FEs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Performance
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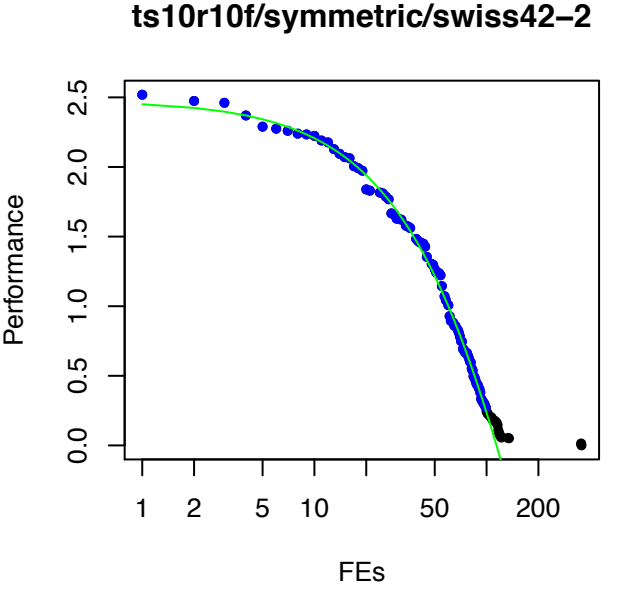
FEs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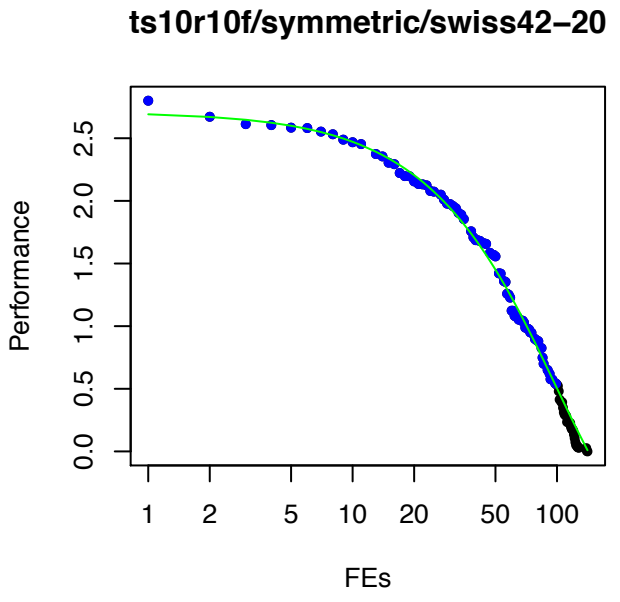
FEs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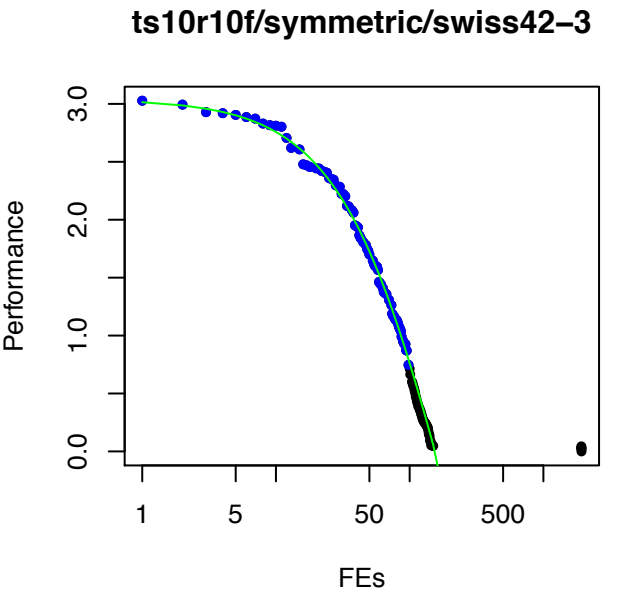
FEs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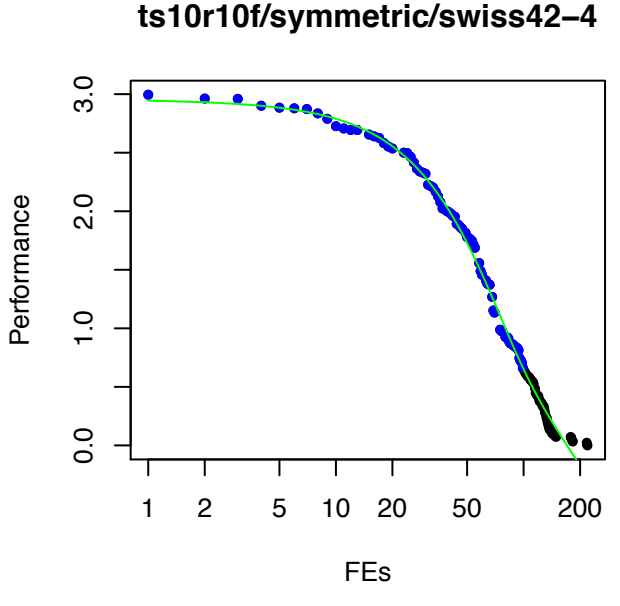
FEs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Performance
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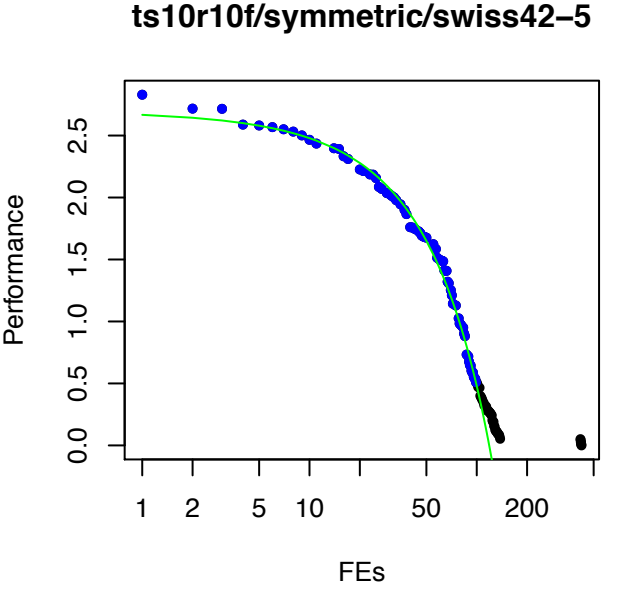
FEs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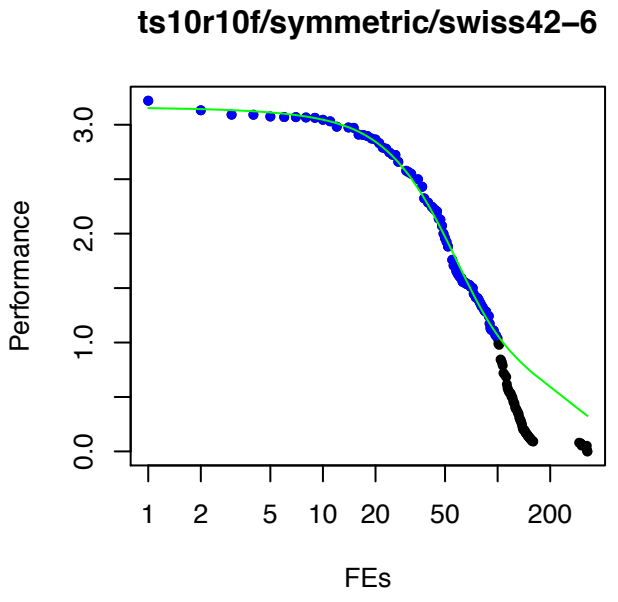
FEs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Performance
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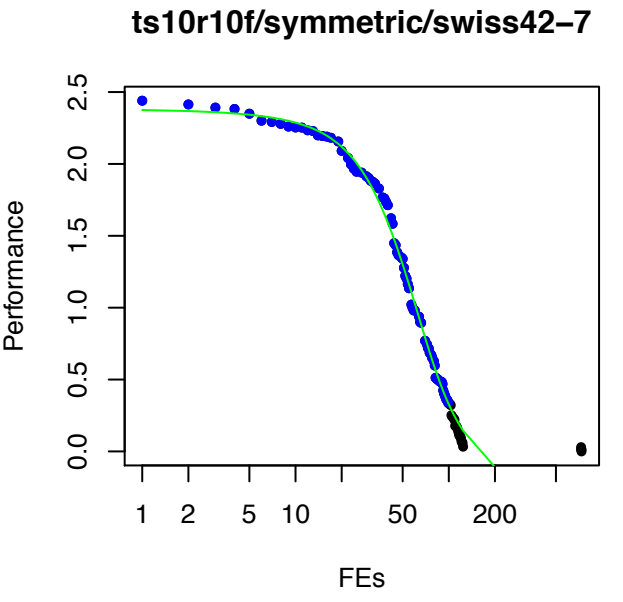
FEs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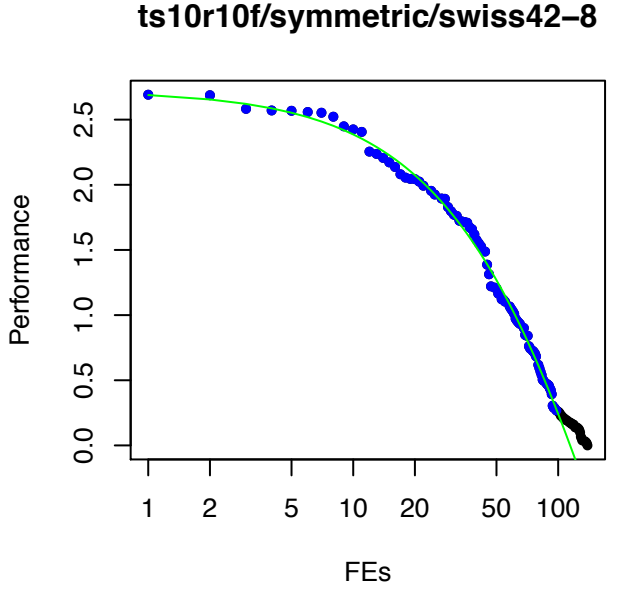
FEs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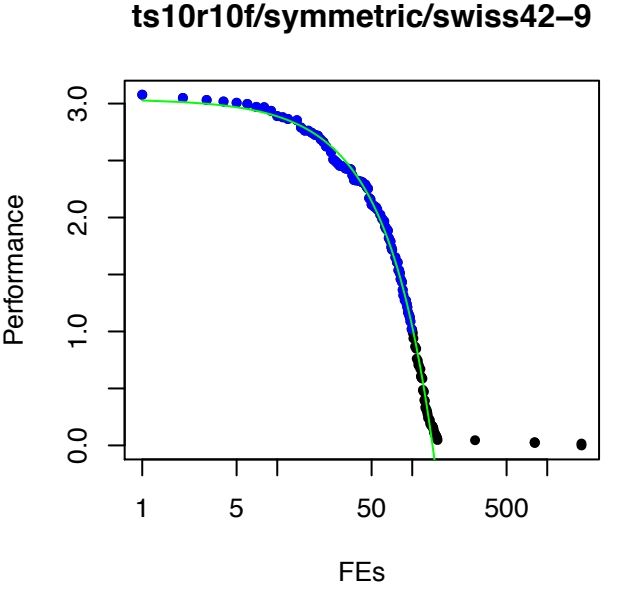
FEs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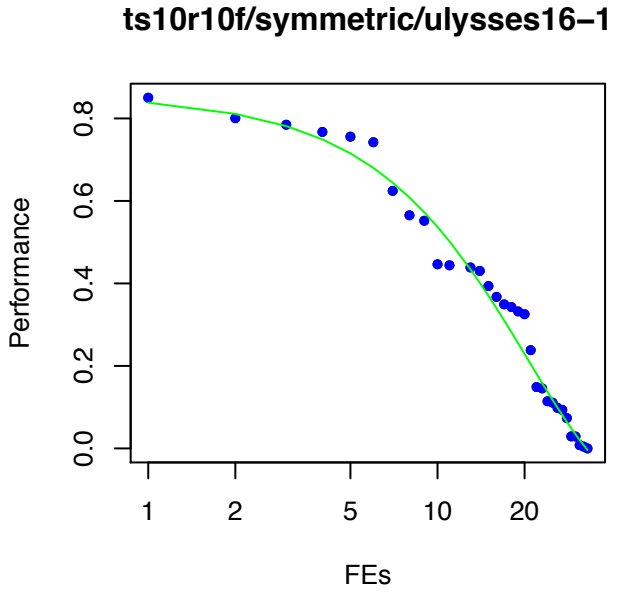
FEs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Performance
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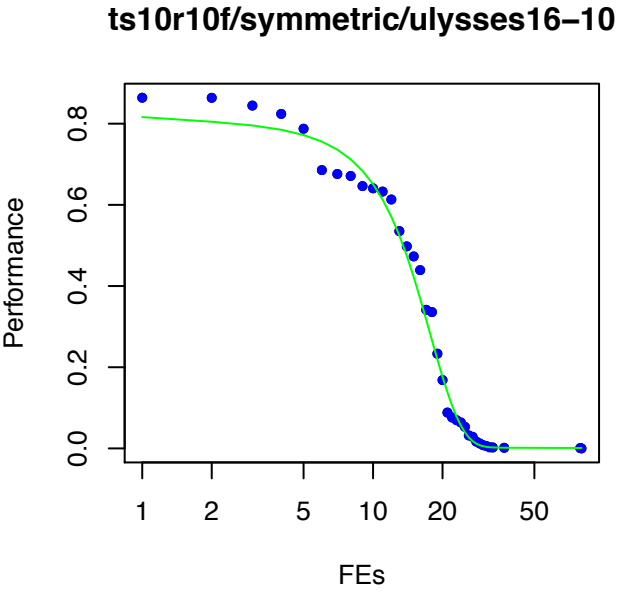
FEs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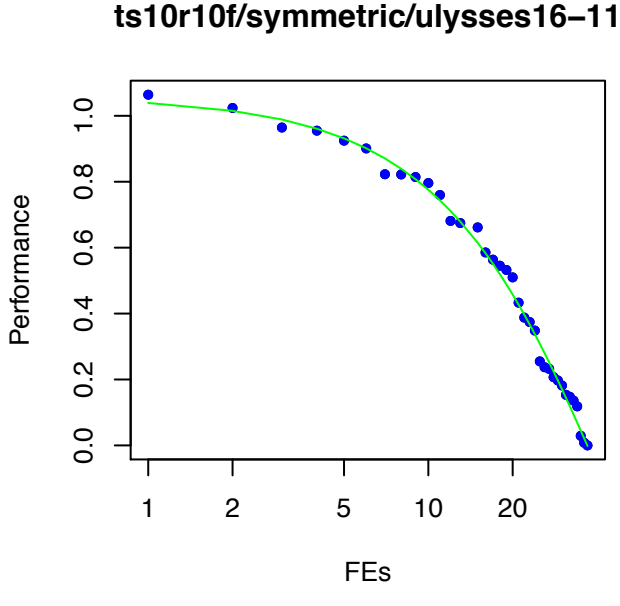
FEs


ts10r10f/symmetric/ulysses16−11
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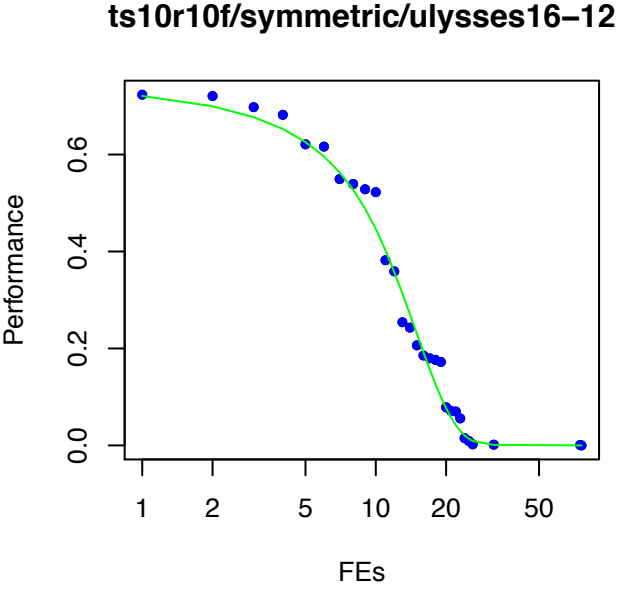
FEs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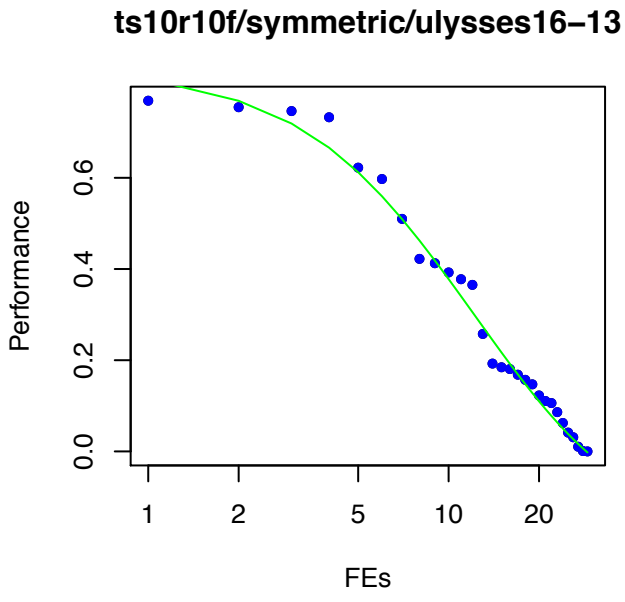
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Performance
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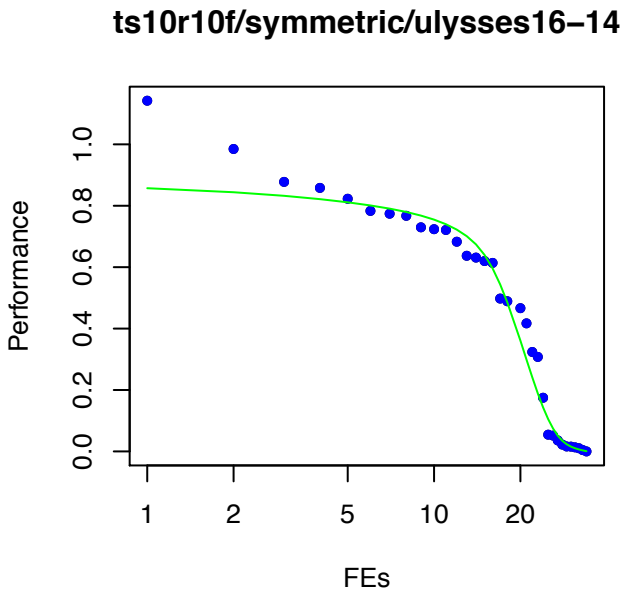
FEs


ts10r10f/symmetric/ulysses16−14
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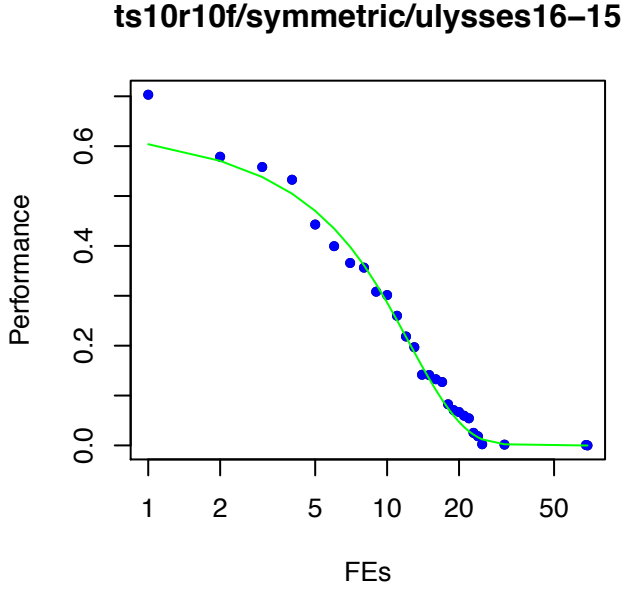
FEs


ts10r10f/symmetric/ulysses16−15
Performance
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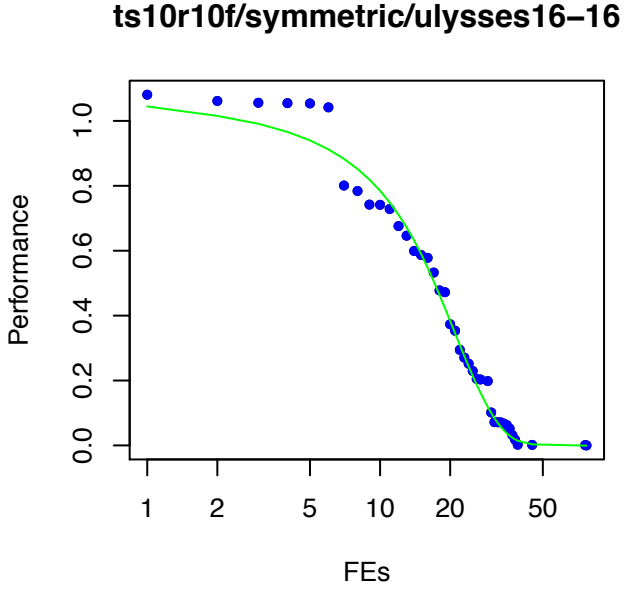
FEs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Performance
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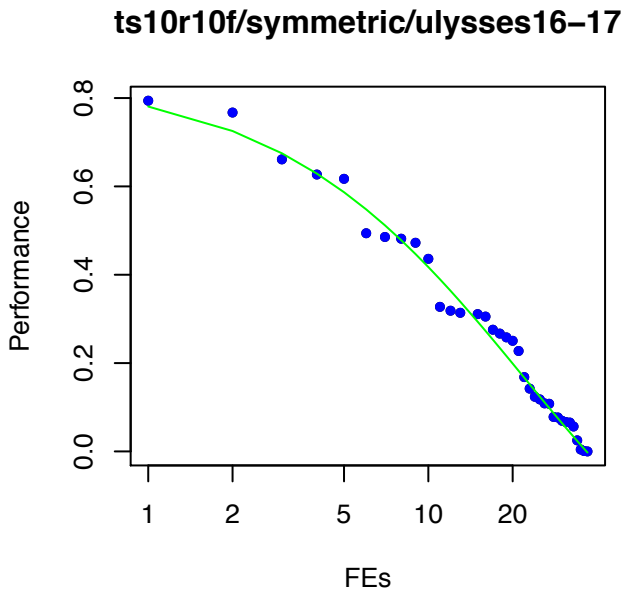
FEs


ts10r10f/symmetric/ulysses16−17
Performance
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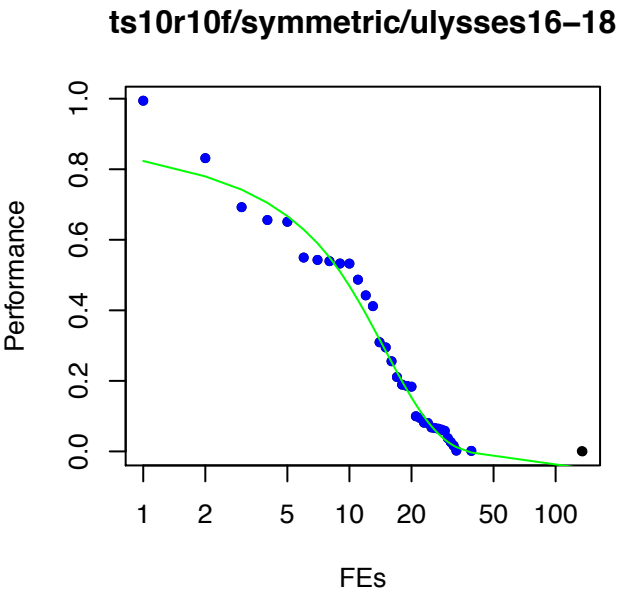
FEs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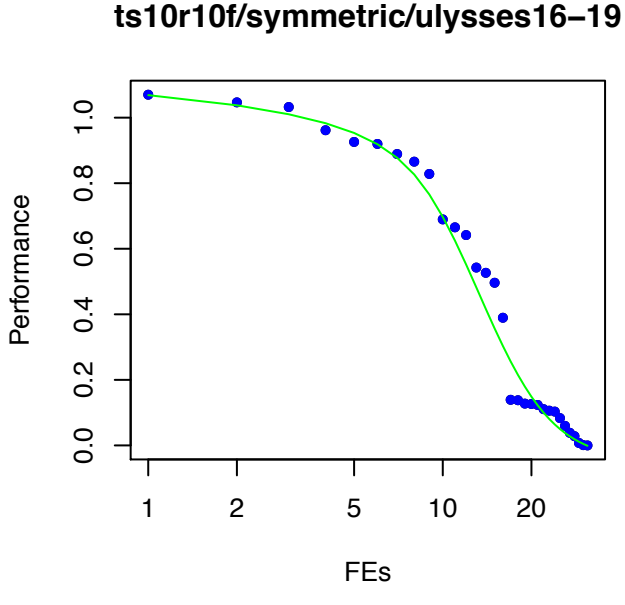
FEs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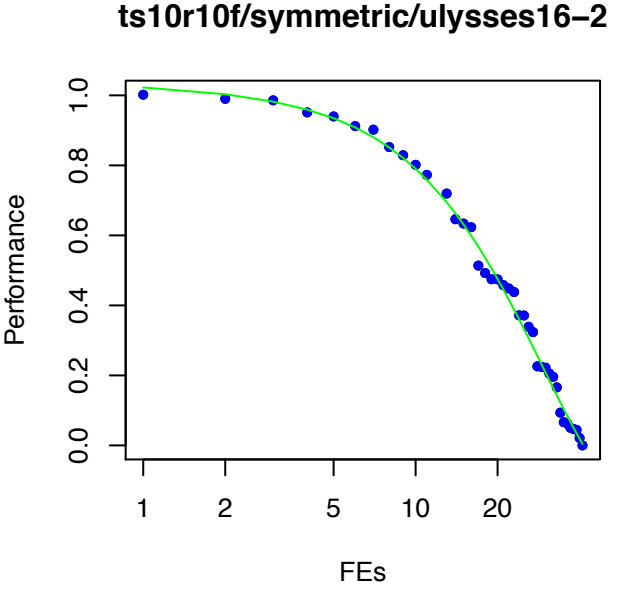
20
FEs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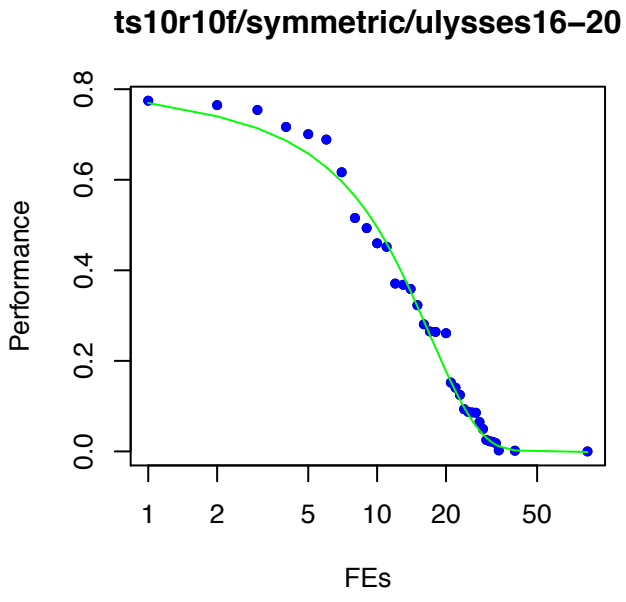
5
10
20
FEs


ts10r10f/symmetric/ulysses16−20
Performance
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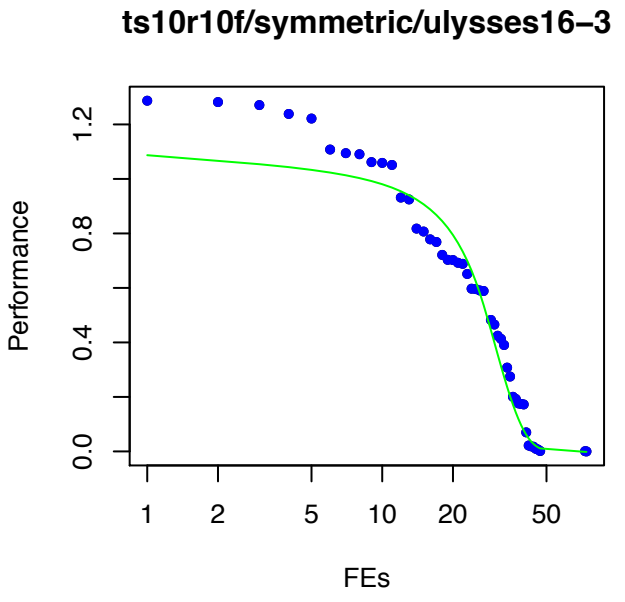
0.4
0.6
0.8
1
2
5
10
20
50
FEs


ts10r10f/symmetric/ulysses16−3
Performance
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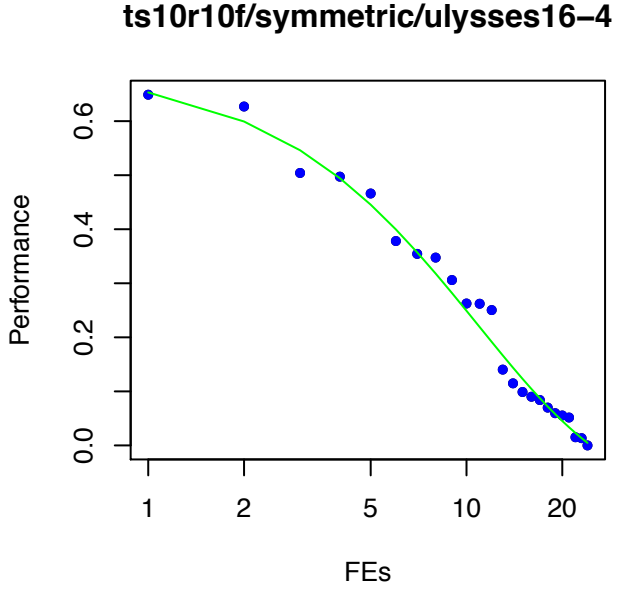
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts10r10f/symmetric/ulysses16−4
Performance
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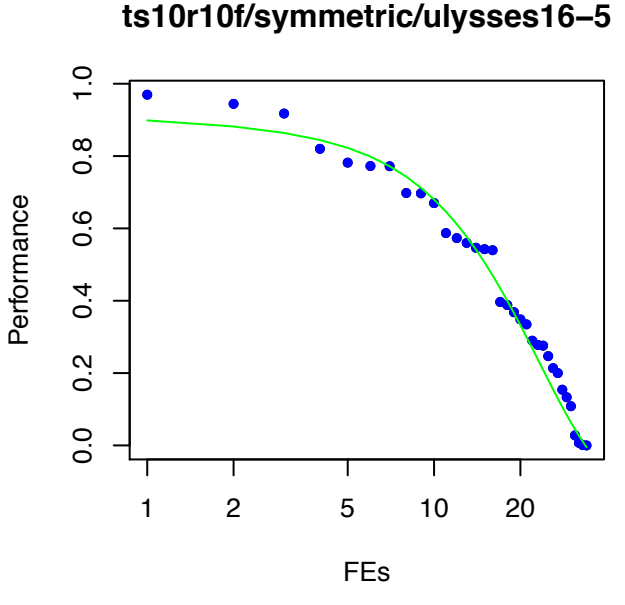
0.4
0.6
1
2
5
10
20
FEs


ts10r10f/symmetric/ulysses16−5
Performance
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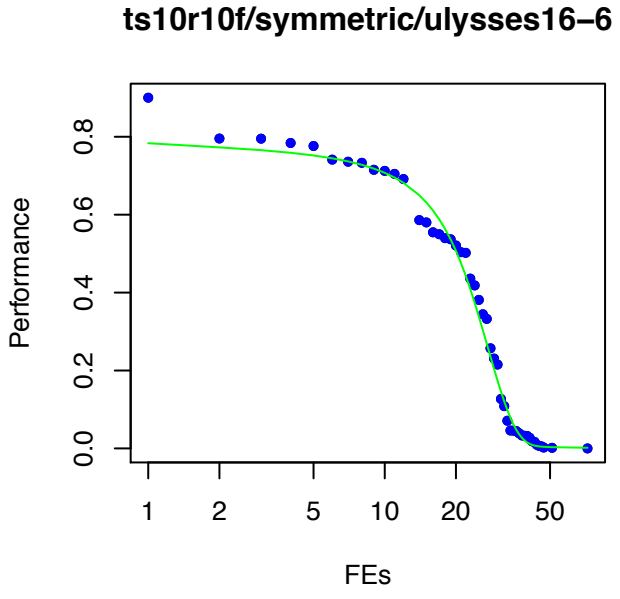
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
FEs


ts10r10f/symmetric/ulysses16−6
Performance
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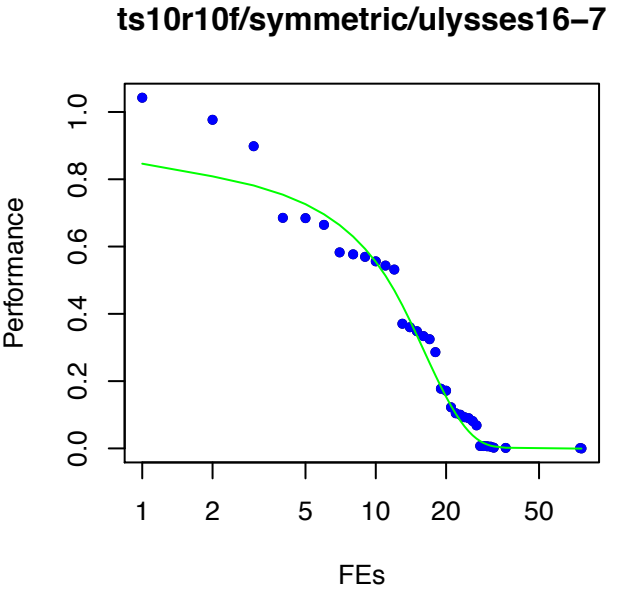
0.2
0.4
0.6
0.8
1
2
5
10
20
50
FEs


ts10r10f/symmetric/ulysses16−7
Performance
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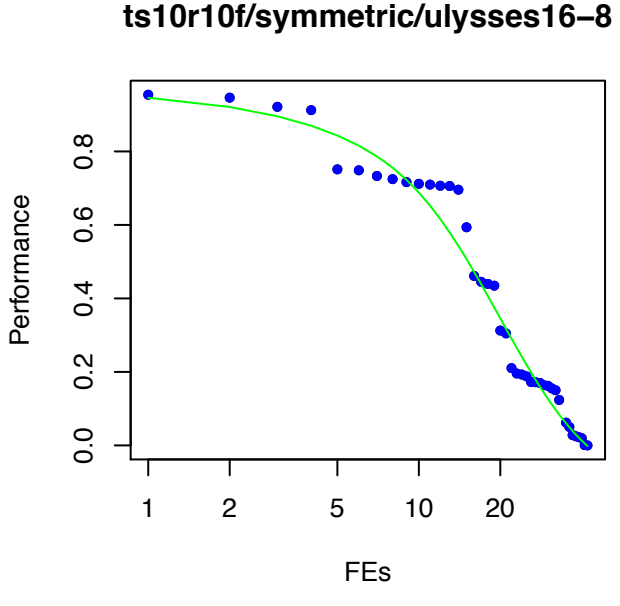
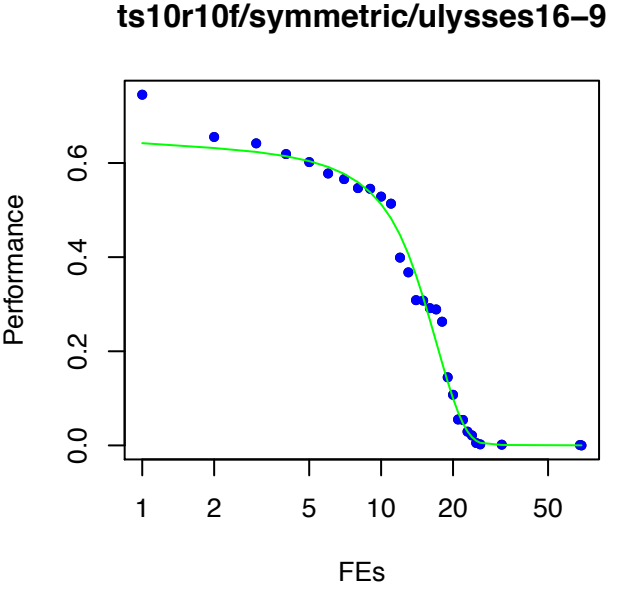
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
50
FEs


ts10r10f/symmetric/ulysses16−8
Performance
0.0
0.2
0.4
0.6
0.8
1
2
5
10
20
FEs


ts10r10f/symmetric/ulysses16−9
Performance
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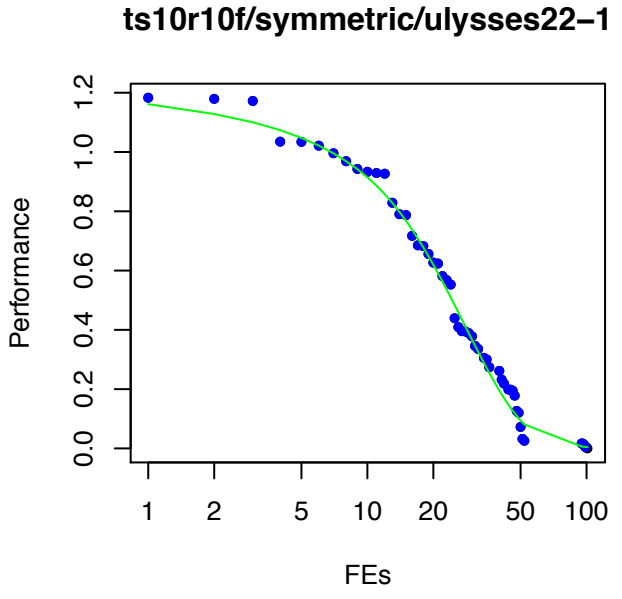
0.2
0.4
0.6
1
2
5
10
20
50
FEs


ts10r10f/symmetric/ulysses22−1
Performance
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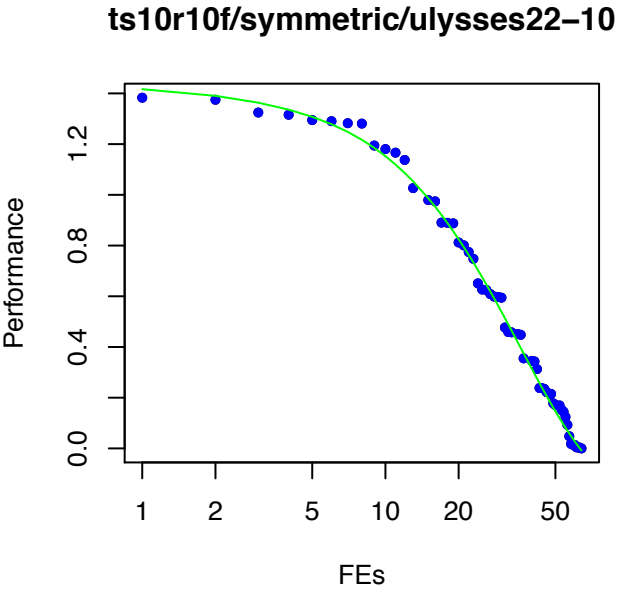
0.2
0.4
0.6
0.8
1.0
1.2
1
2
5
10
20
50
100
FEs


ts10r10f/symmetric/ulysses22−10
Performance
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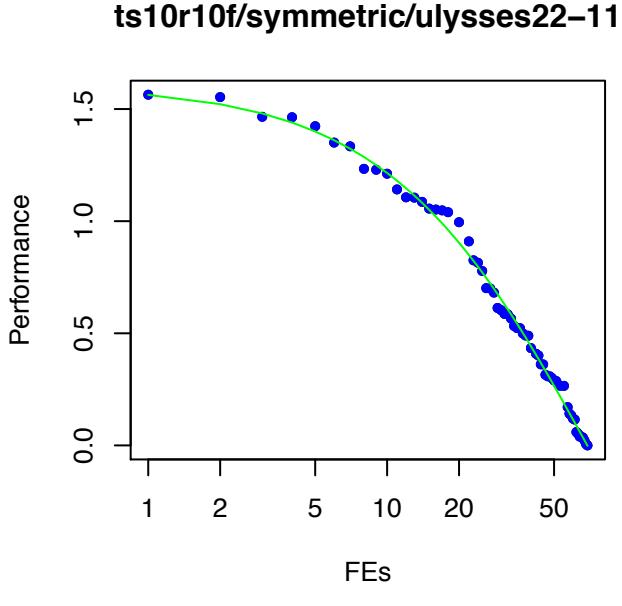
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts10r10f/symmetric/ulysses22−11
Performance
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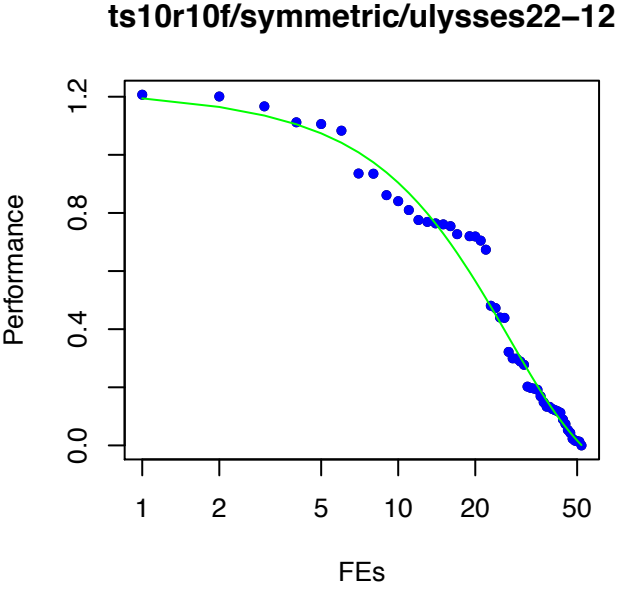
0.5
1.0
1.5
1
2
5
10
20
50
FEs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Performance
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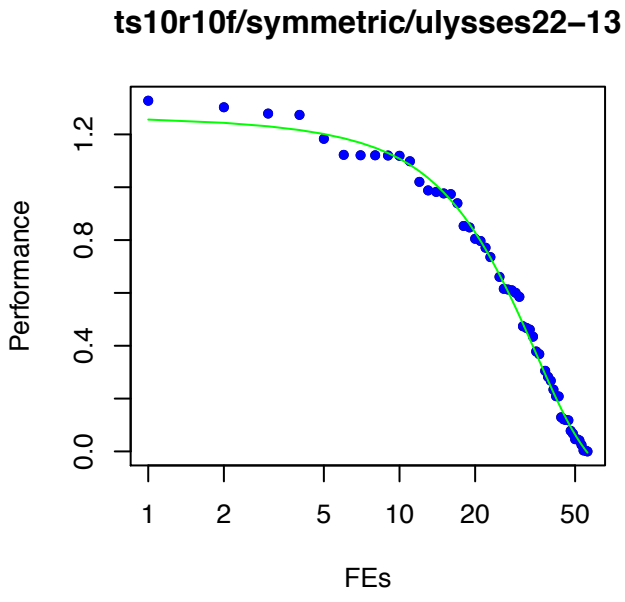
0.8
1.2
1
2
5
10
20
50
FEs


ts10r10f/symmetric/ulysses22−13
Performance
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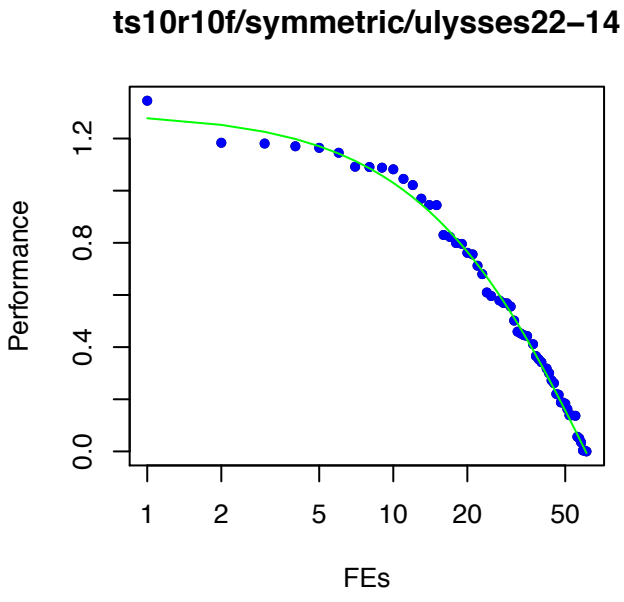
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts10r10f/symmetric/ulysses22−14
Performance
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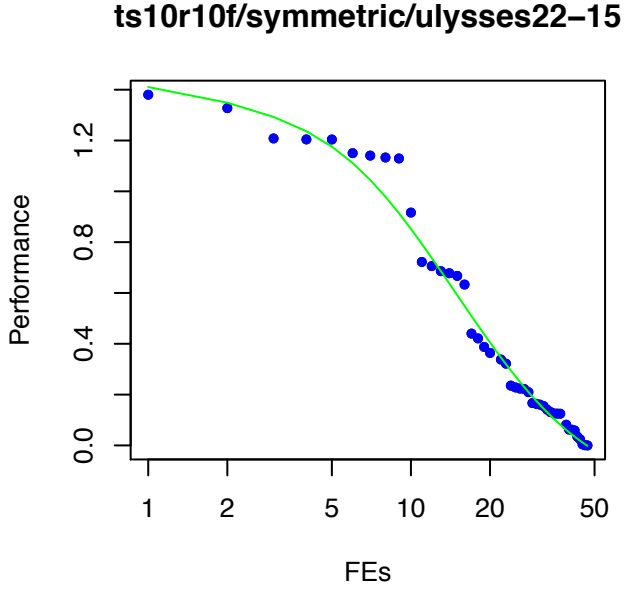
1.2
1
2
5
10
20
50
FEs


ts10r10f/symmetric/ulysses22−15
Performance
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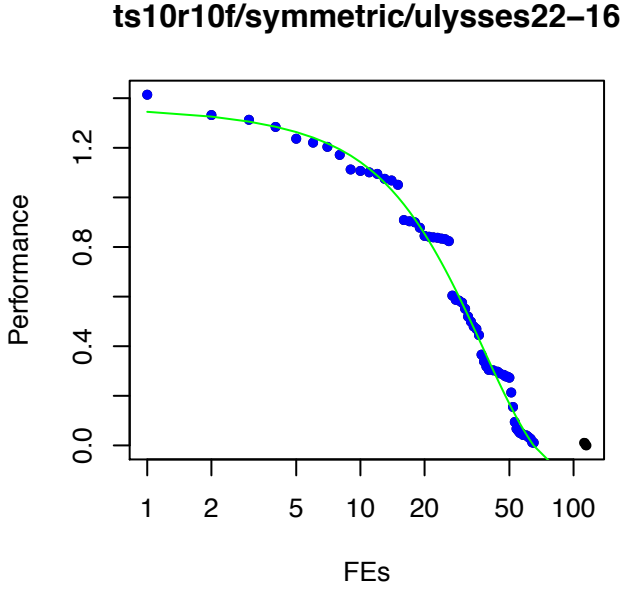
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts10r10f/symmetric/ulysses22−16
Performance
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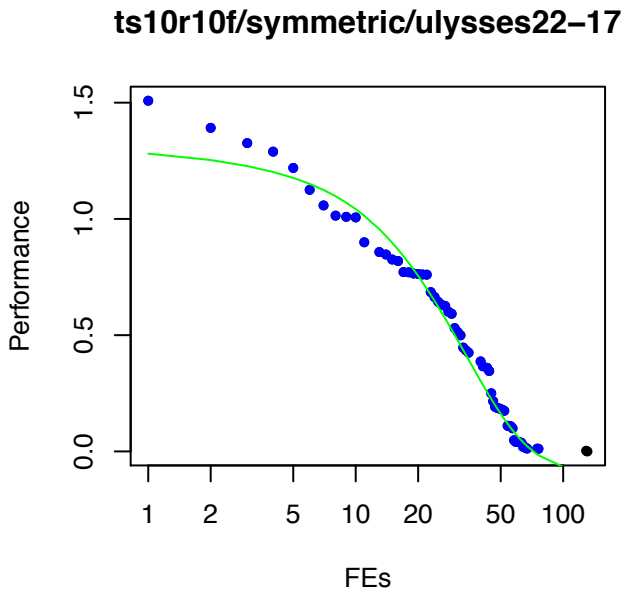
0.8
1.2
1
2
5
10
20
50
100
FEs


ts10r10f/symmetric/ulysses22−17
Performance
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0.5
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1
2
5
10
20
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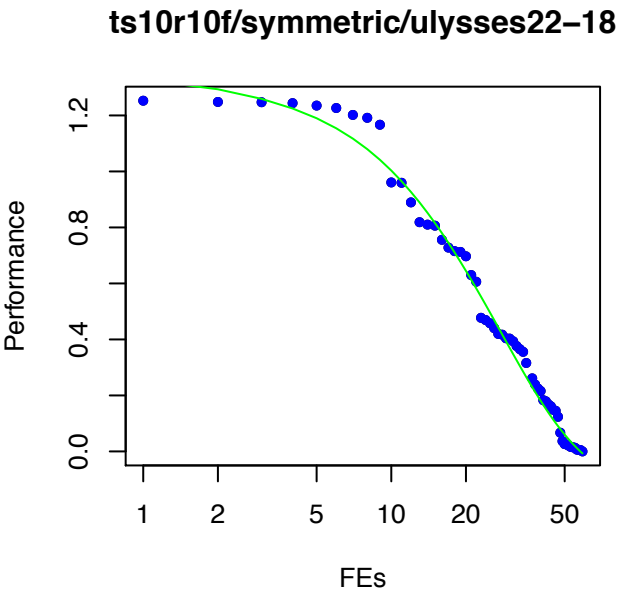
100
FEs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Performance
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0.8
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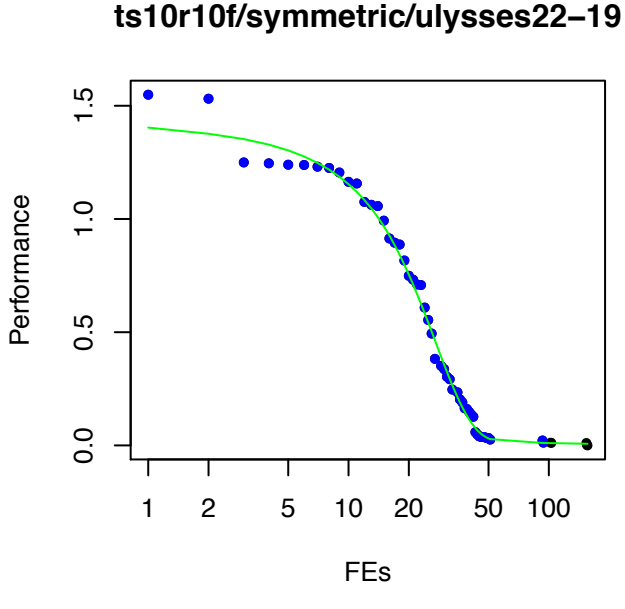
1
2
5
10
20
50
FEs


ts10r10f/symmetric/ulysses22−19
Performance
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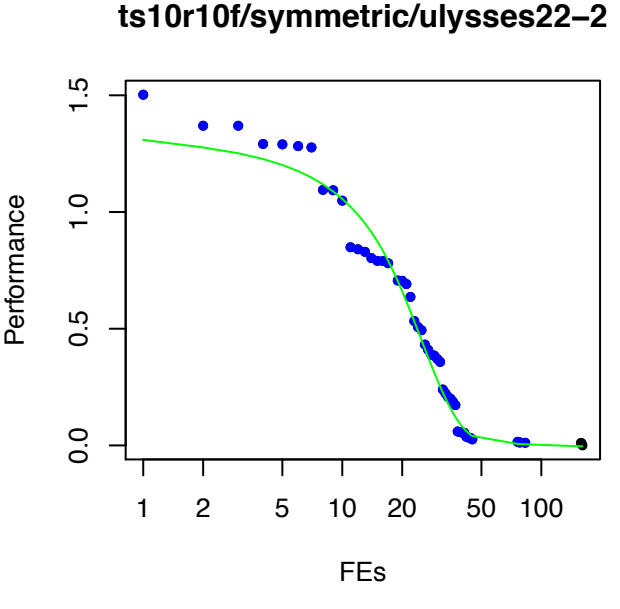
1.0
1.5
1
2
5
10
20
50
100
FEs


ts10r10f/symmetric/ulysses22−2
Performance
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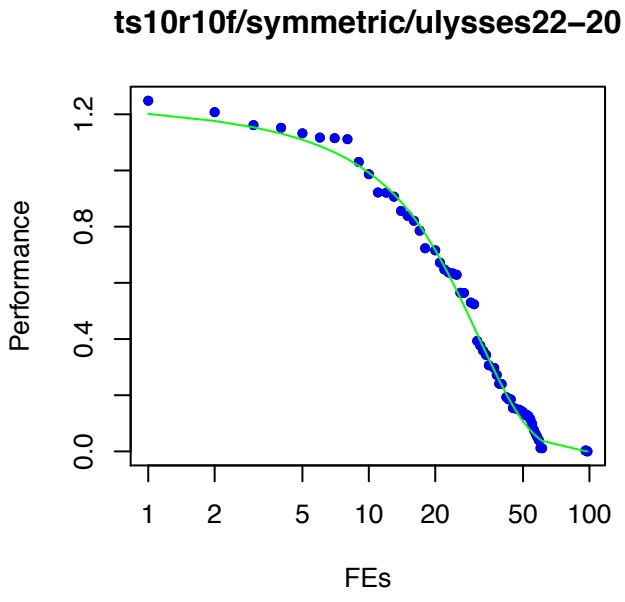
1.0
1.5
1
2
5
10
20
50
100
FEs


ts10r10f/symmetric/ulysses22−20
Performance
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0.8
1.2
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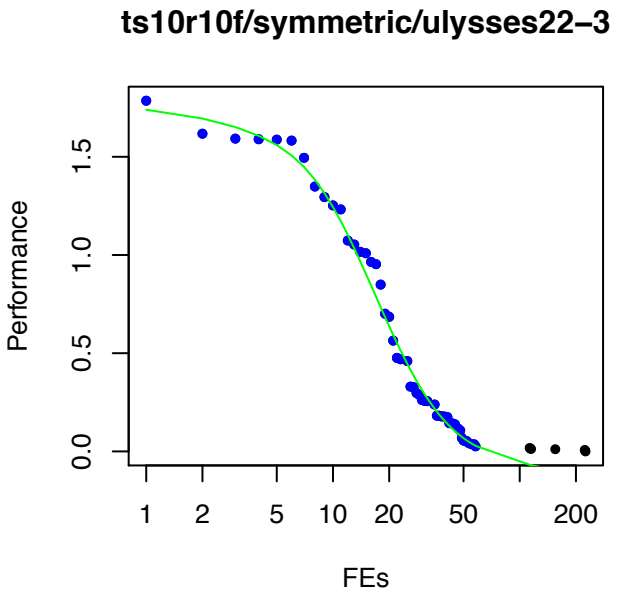
2
5
10
20
50
100
FEs


ts10r10f/symmetric/ulysses22−3
Performance
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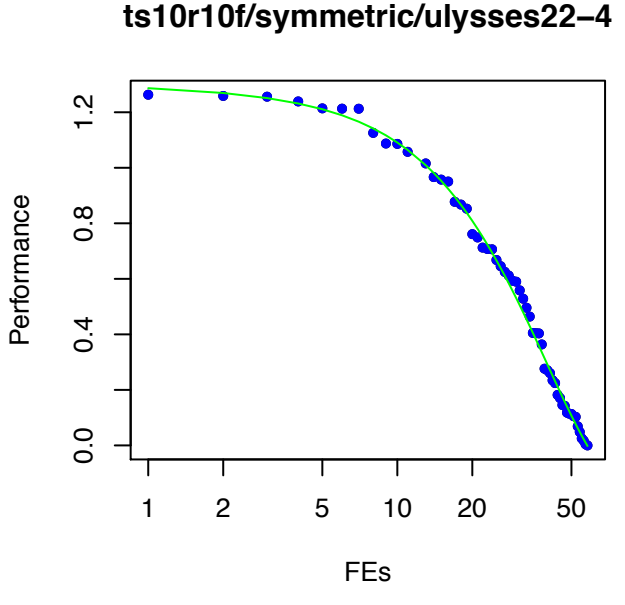
1.0
1.5
1
2
5
10
20
50
200
FEs


ts10r10f/symmetric/ulysses22−4
Performance
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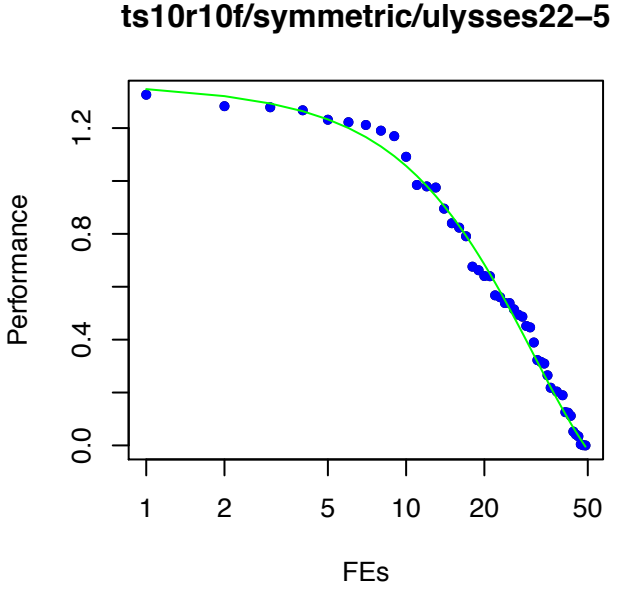
0.8
1.2
1
2
5
10
20
50
FEs


ts10r10f/symmetric/ulysses22−5
Performance
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0.8
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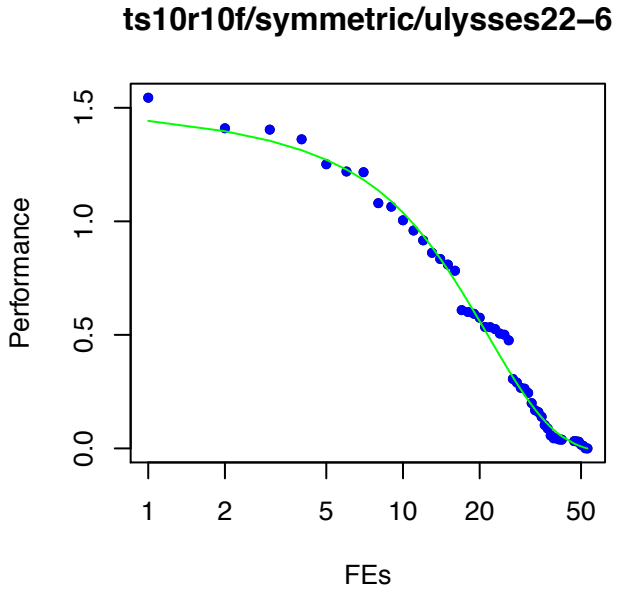
10
20
50
FEs


ts10r10f/symmetric/ulysses22−6
Performance
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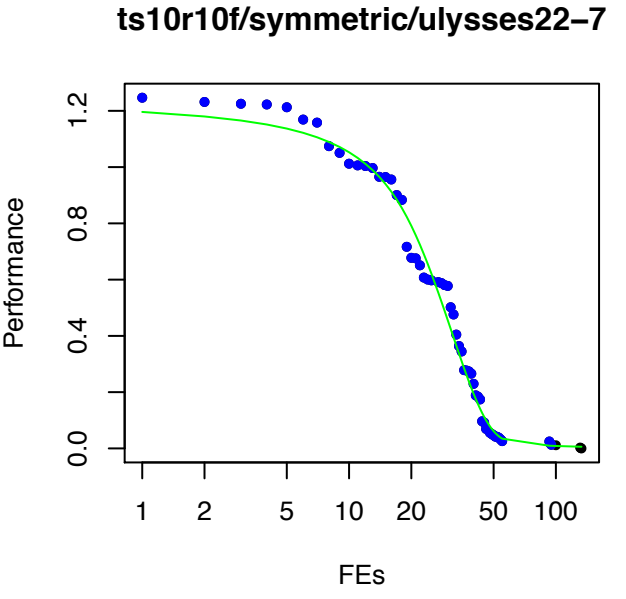
10
20
50
FEs


ts10r10f/symmetric/ulysses22−7
Performance
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0.8
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1
2
5
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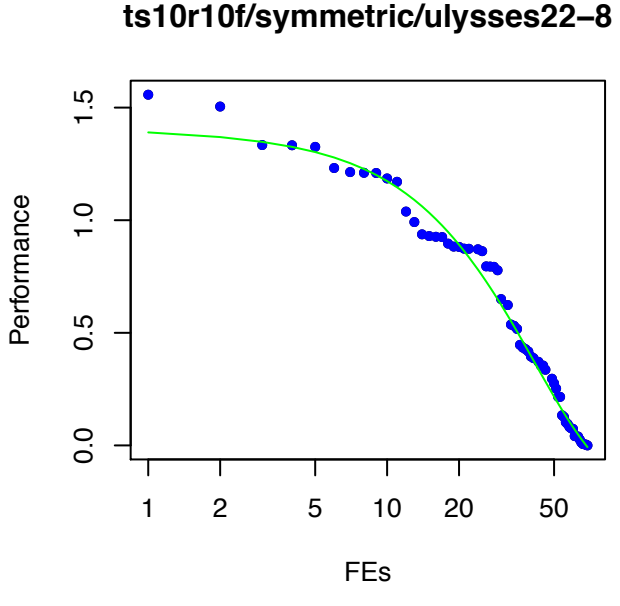
20
50
100
FEs


ts10r10f/symmetric/ulysses22−8
Performance
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1.0
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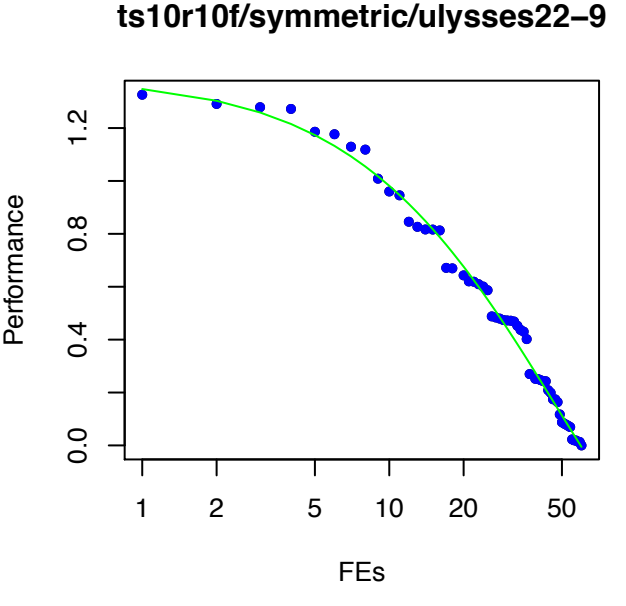
1
2
5
10
20
50
FEs


ts10r10f/symmetric/ulysses22−9
Performance
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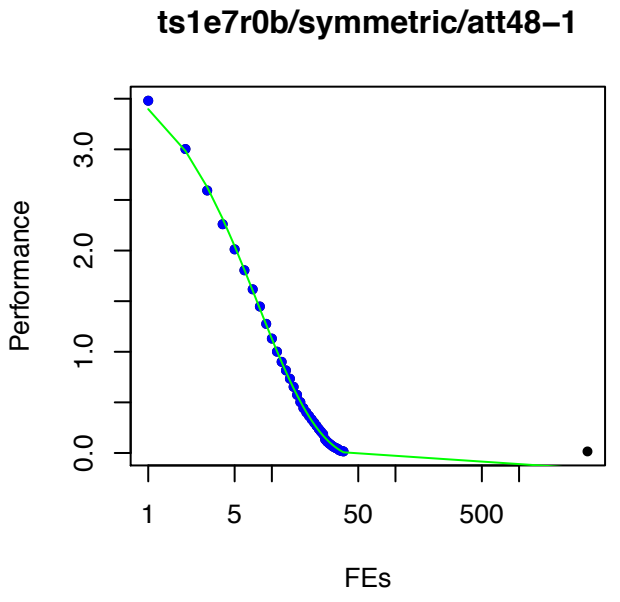
0.8
1.2
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/att48−1
Performance
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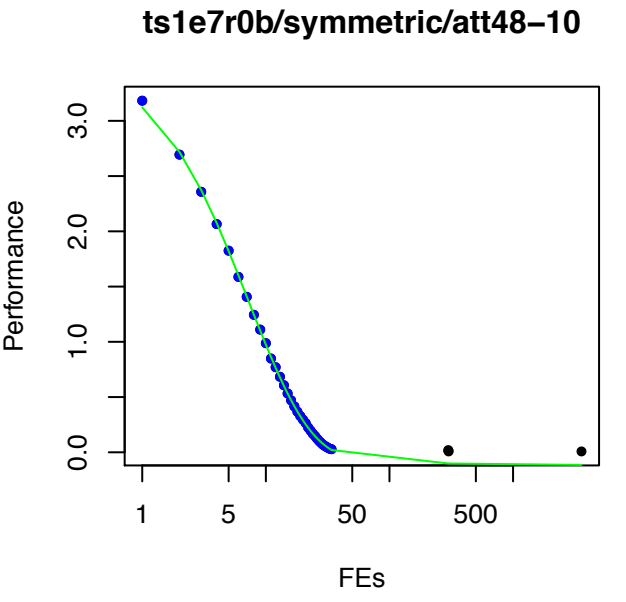
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/att48−10
Performance
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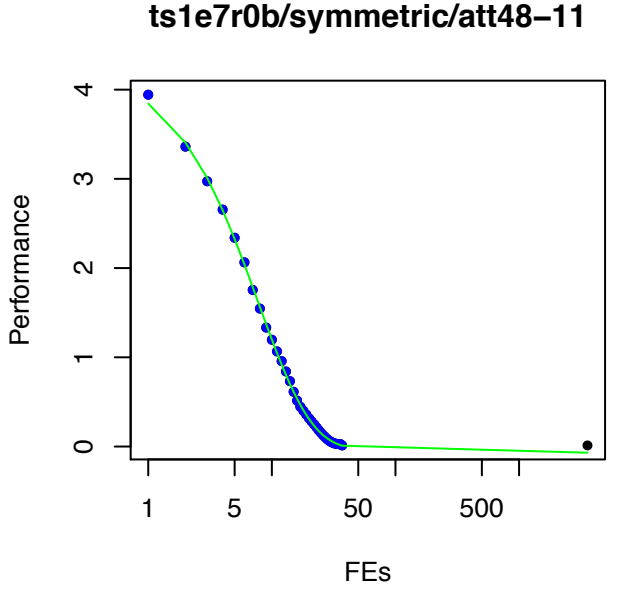
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/att48−11
Performance
0
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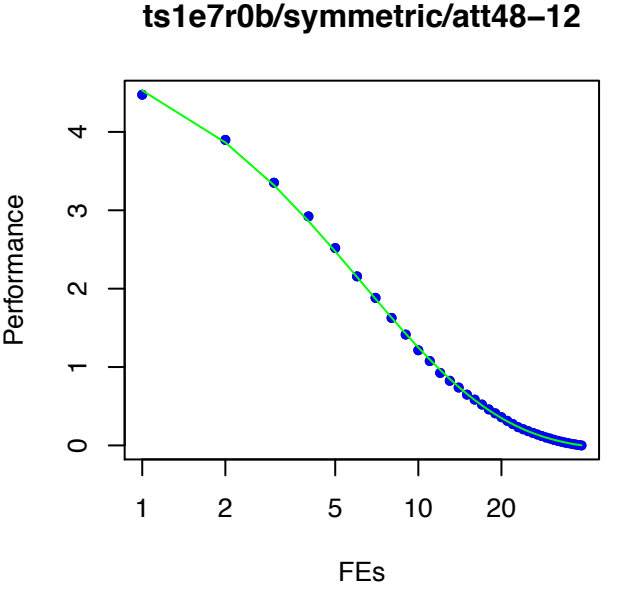
2
3
4
1
5
50
500
FEs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Performance
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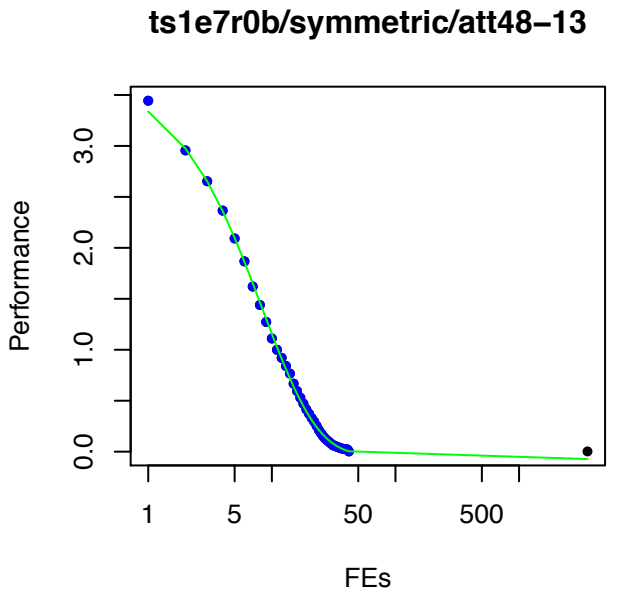
3
4
1
2
5
10
20
FEs


ts1e7r0b/symmetric/att48−13
Performance
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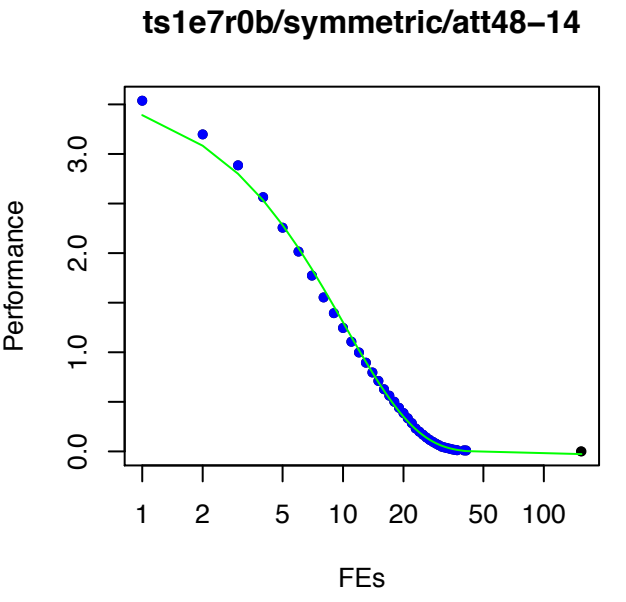
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/att48−14
Performance
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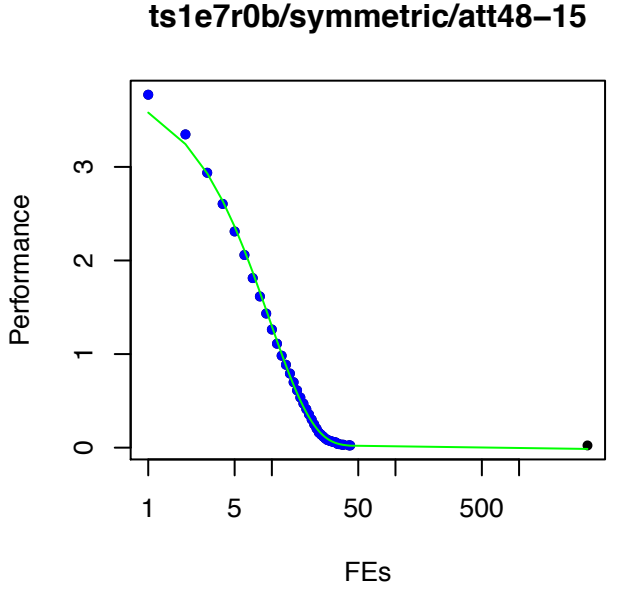
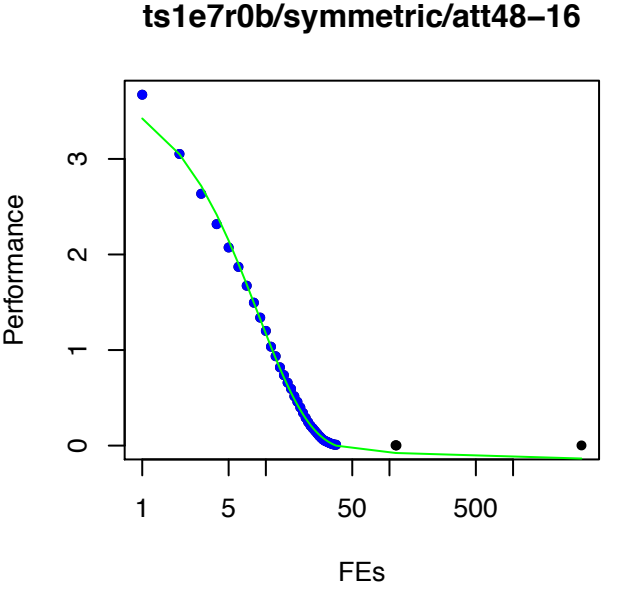
2.0
3.0
1
2
5
10
20
50
100
FEs


ts1e7r0b/symmetric/att48−15
Performance
0
1
2
3
1
5
50
500
FEs


ts1e7r0b/symmetric/att48−16
Performance
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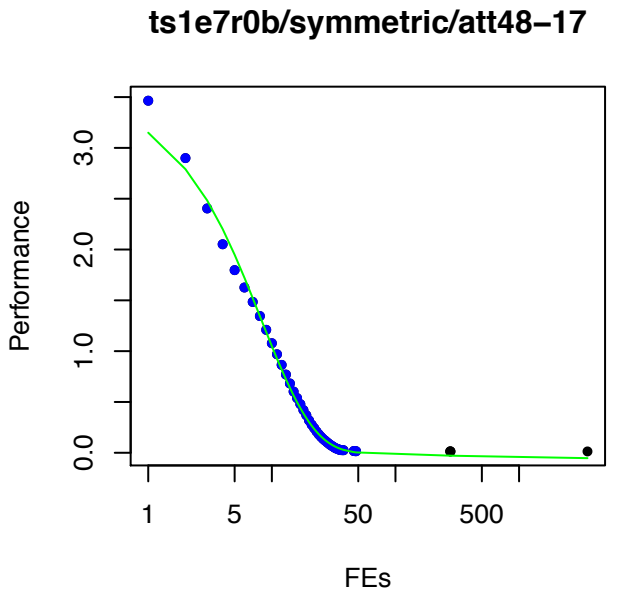
1
2
3
1
5
50
500
FEs


ts1e7r0b/symmetric/att48−17
Performance
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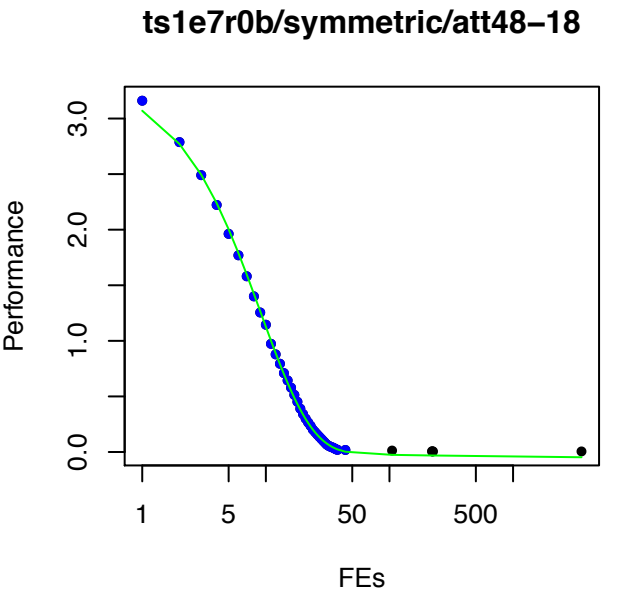
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/att48−18
Performance
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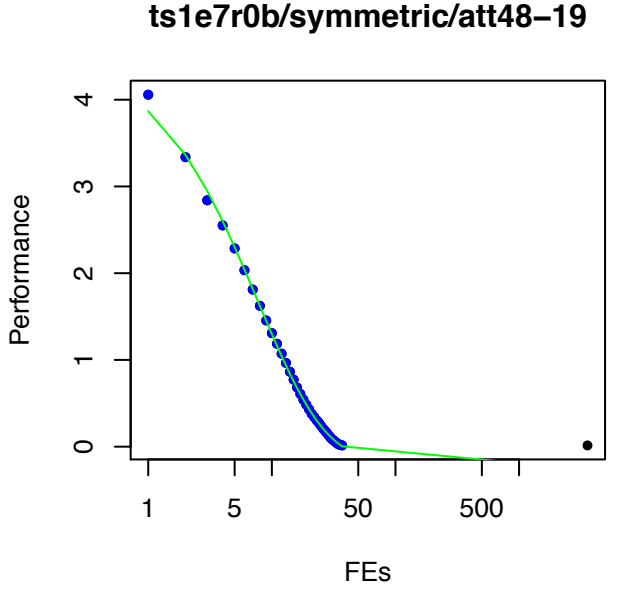
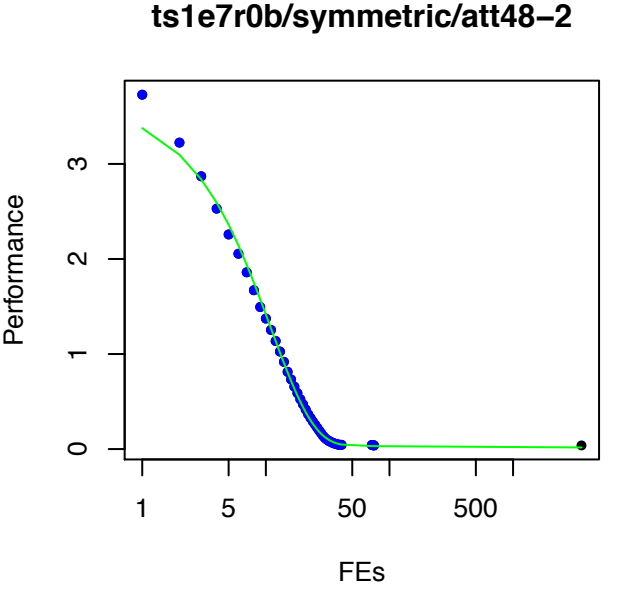
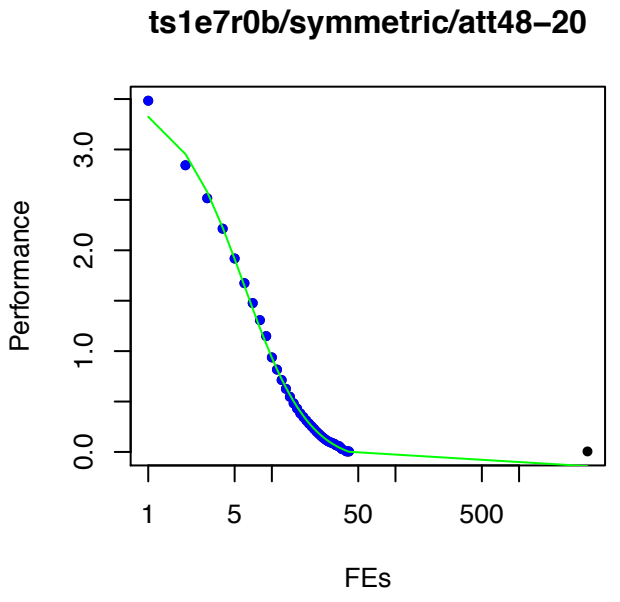
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/att48−19
Performance
0
1
2
3
4
1
5
50
500
FEs


ts1e7r0b/symmetric/att48−2
Performance
0
1
2
3
1
5
50
500
FEs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Performance
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2.0
3.0
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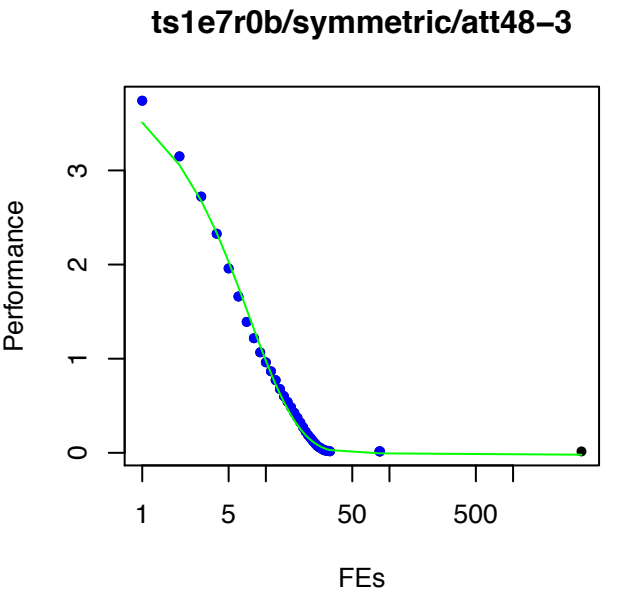
500
FEs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3
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5
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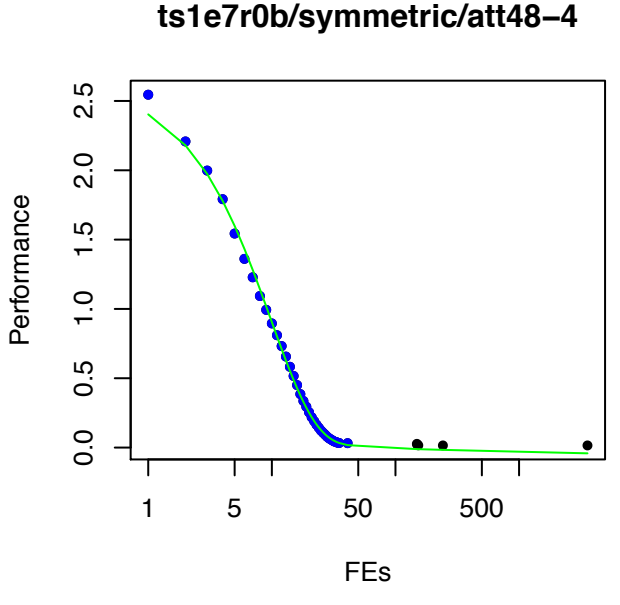
FEs


ts1e7r0b/symmetric/att48−4
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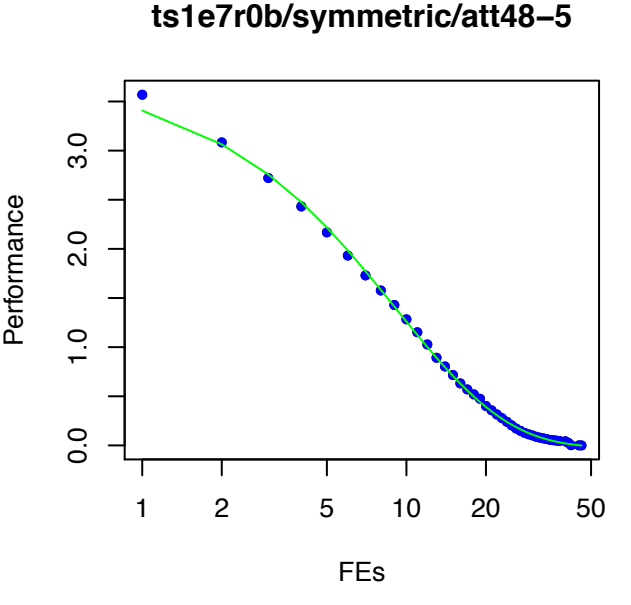
2.5
1
5
50
500
FEs


ts1e7r0b/symmetric/att48−5
Performance
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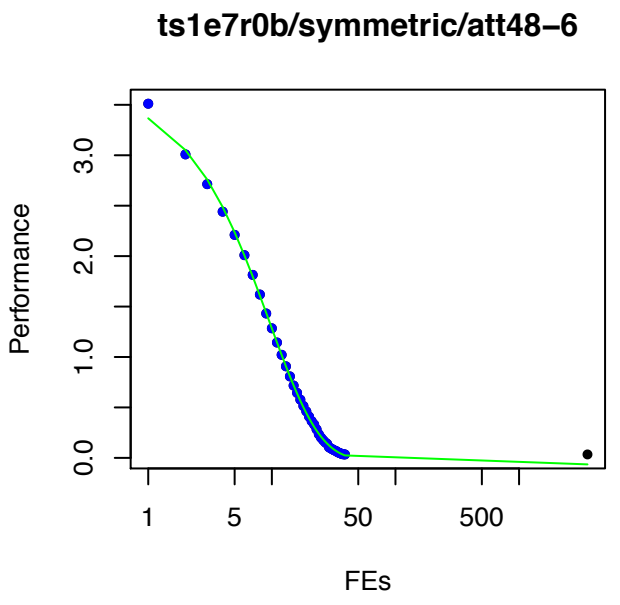
10
20
50
FEs


ts1e7r0b/symmetric/att48−6
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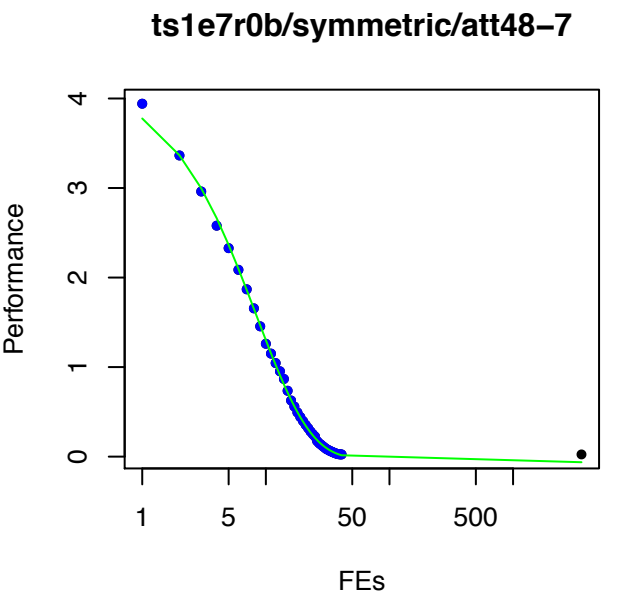
FEs


ts1e7r0b/symmetric/att48−7
Performance
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3
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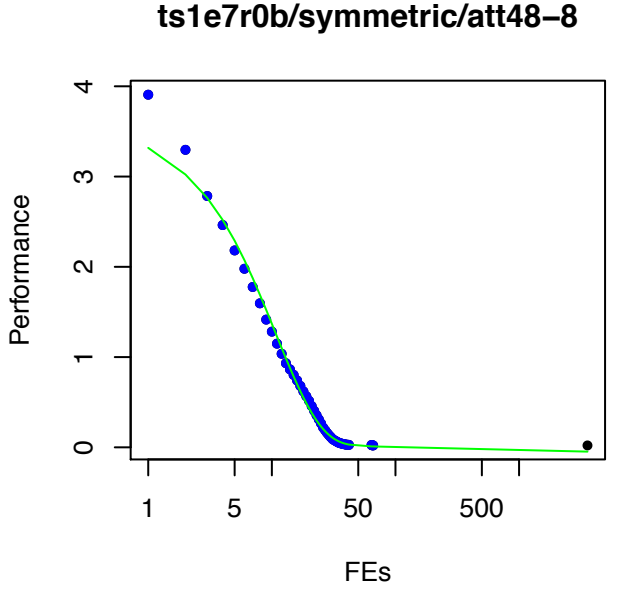
FEs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Performance
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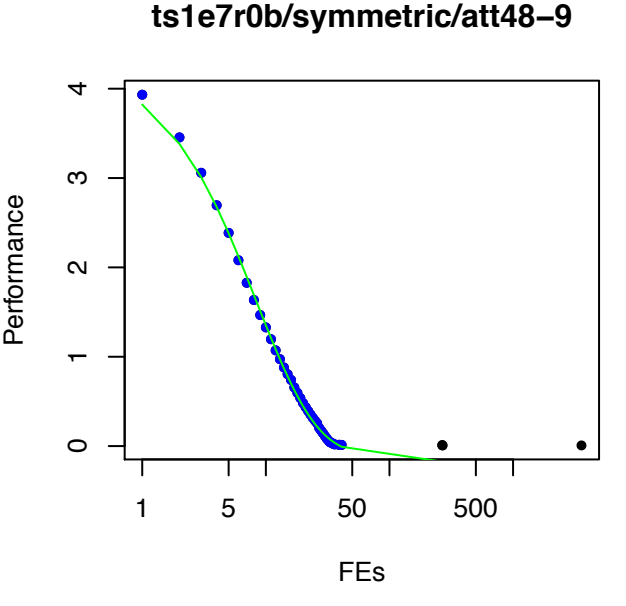
FEs


ts1e7r0b/symmetric/att48−9
Performance
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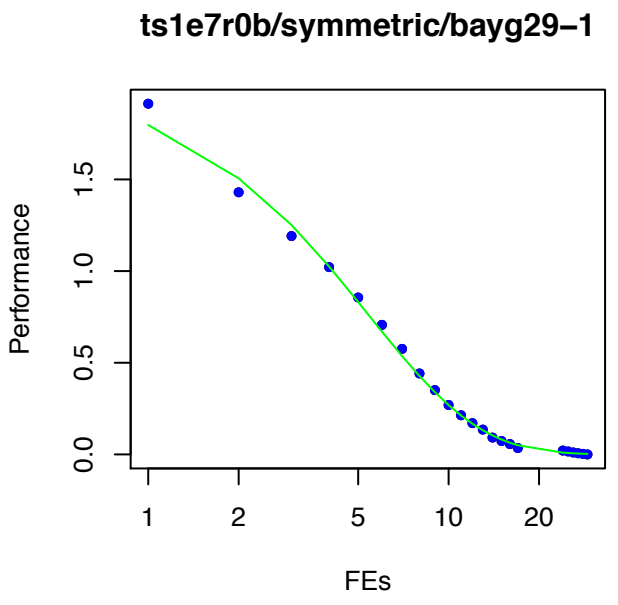
FEs


ts1e7r0b/symmetric/bayg29−1
Performance
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0.5
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1.5
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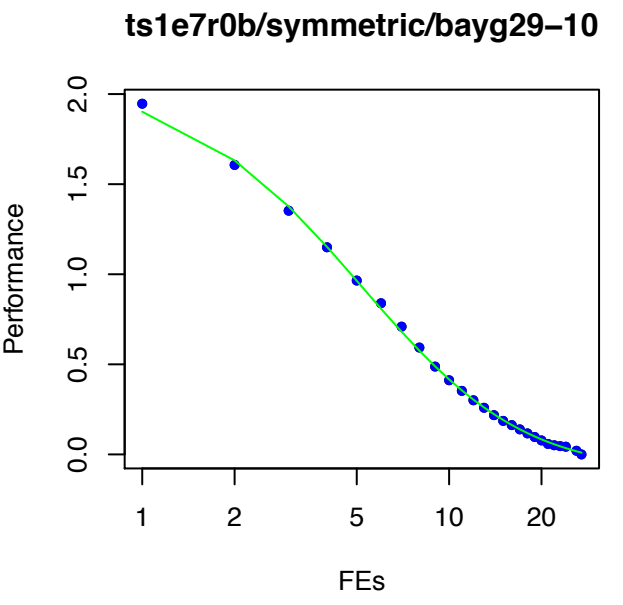
2
5
10
20
FEs


ts1e7r0b/symmetric/bayg29−10
Performance
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2
5
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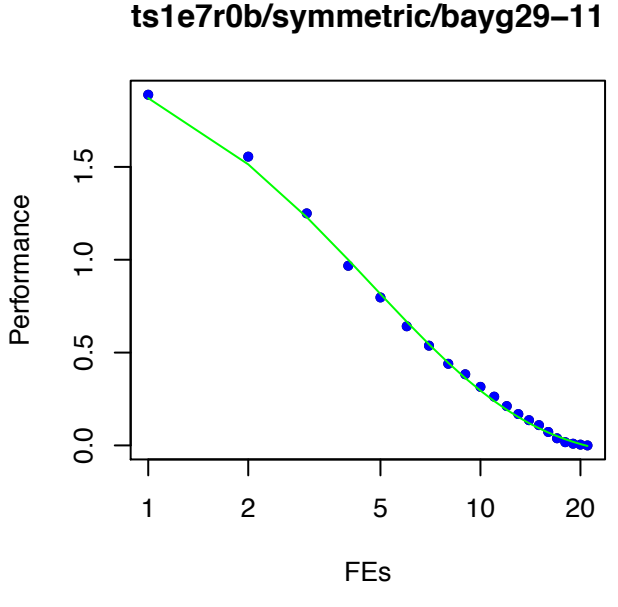
20
FEs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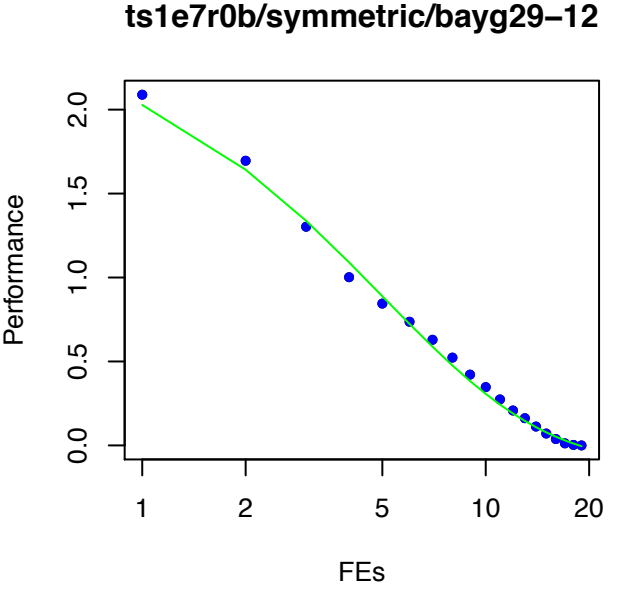
20
FEs


ts1e7r0b/symmetric/bayg29−12
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2
5
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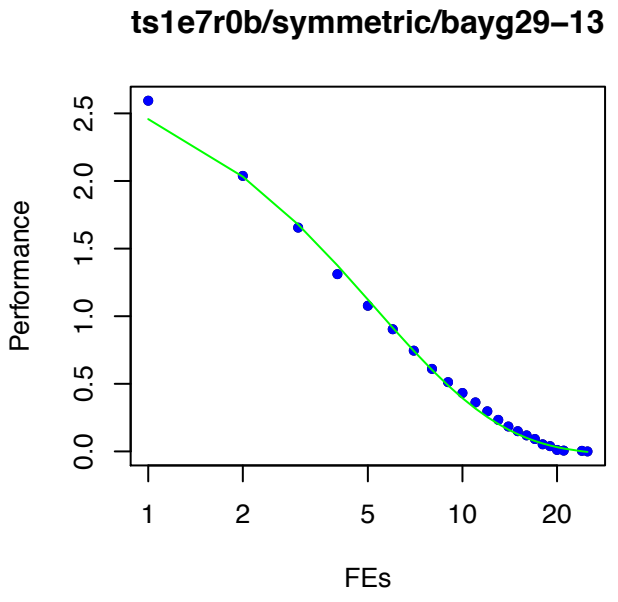
20
FEs


ts1e7r0b/symmetric/bayg29−13
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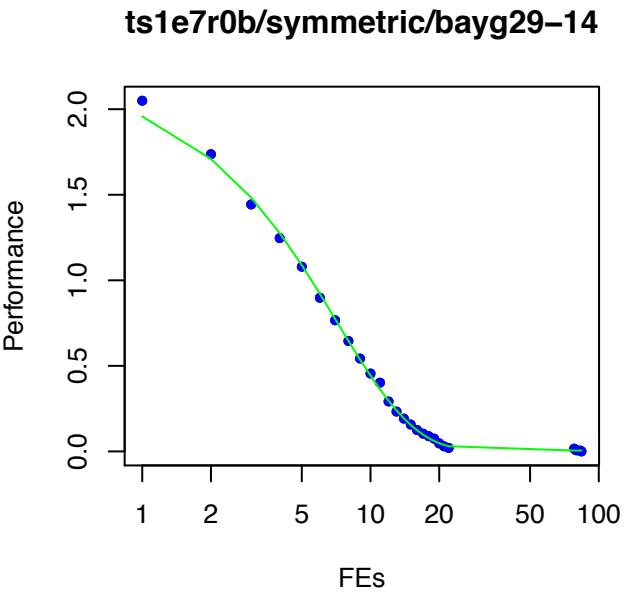
1.5
2.0
2.5
1
2
5
10
20
FEs


ts1e7r0b/symmetric/bayg29−14
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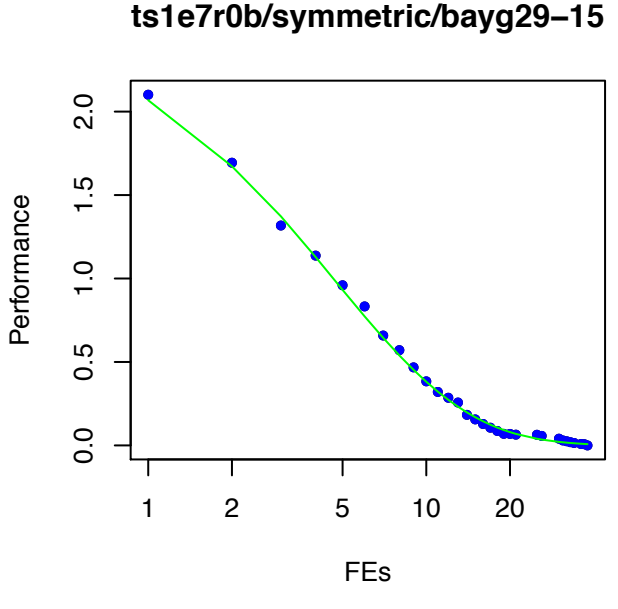
50
100
FEs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2
5
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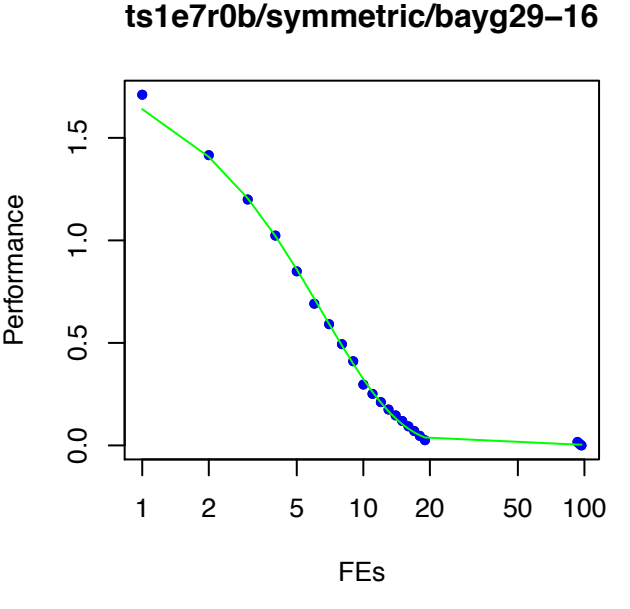
20
FEs


ts1e7r0b/symmetric/bayg29−16
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2
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10
20
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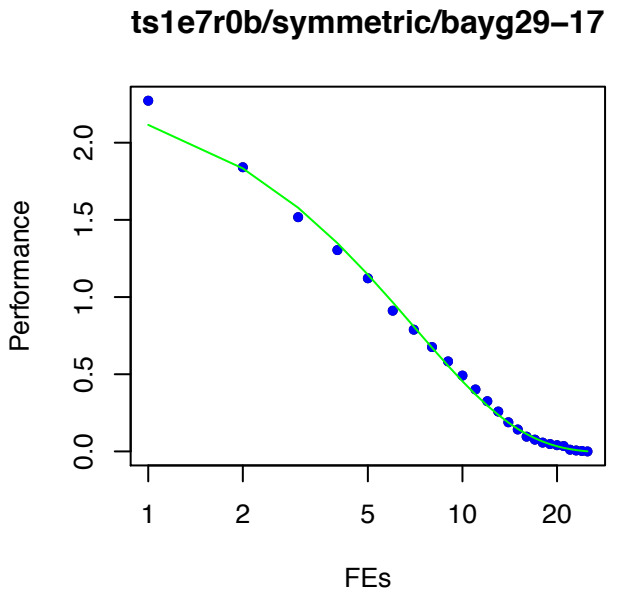
100
FEs


ts1e7r0b/symmetric/bayg29−17
Performance
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1.5
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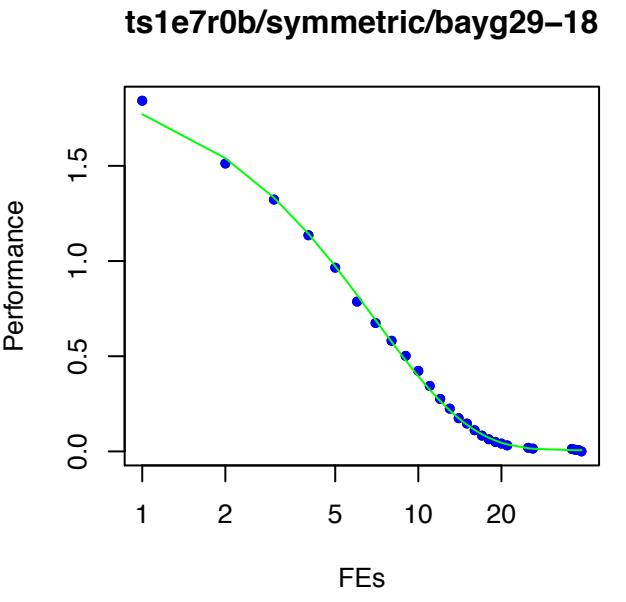
1
2
5
10
20
FEs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Performance
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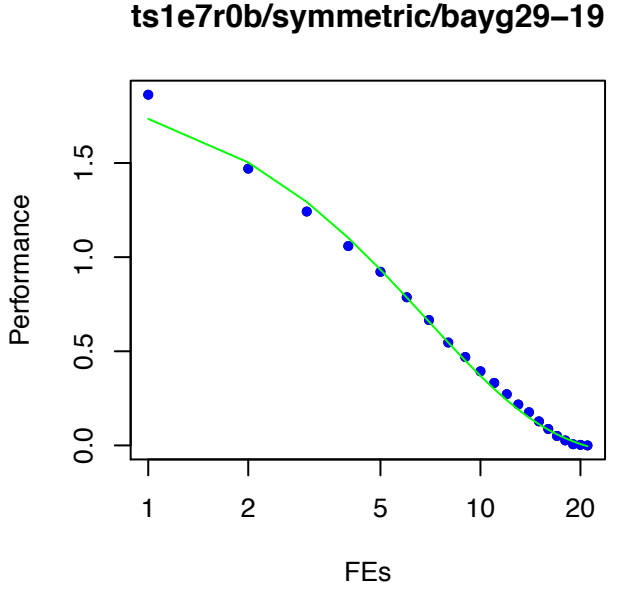
2
5
10
20
FEs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Performance
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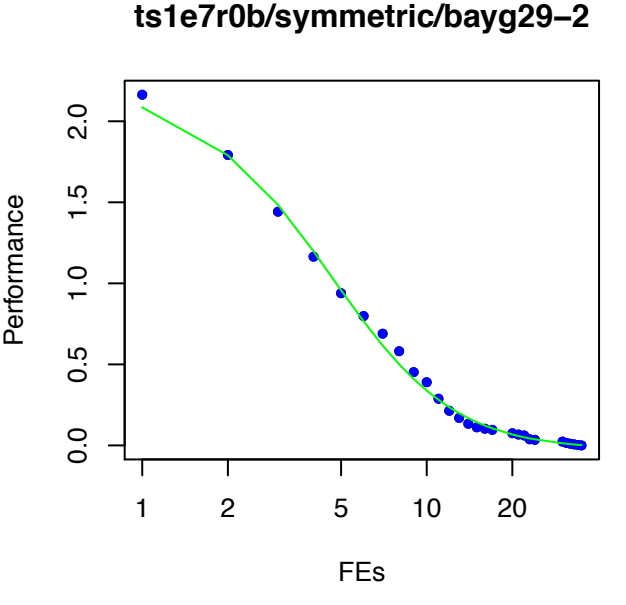
1
2
5
10
20
FEs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2
5
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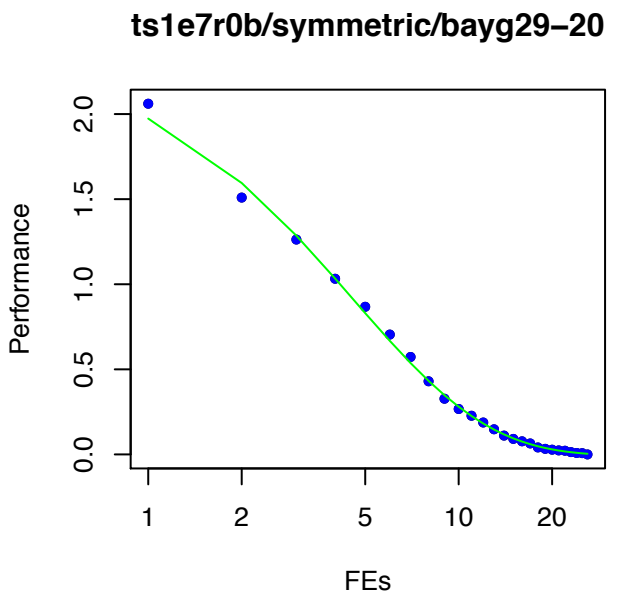
20
FEs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Performance
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2
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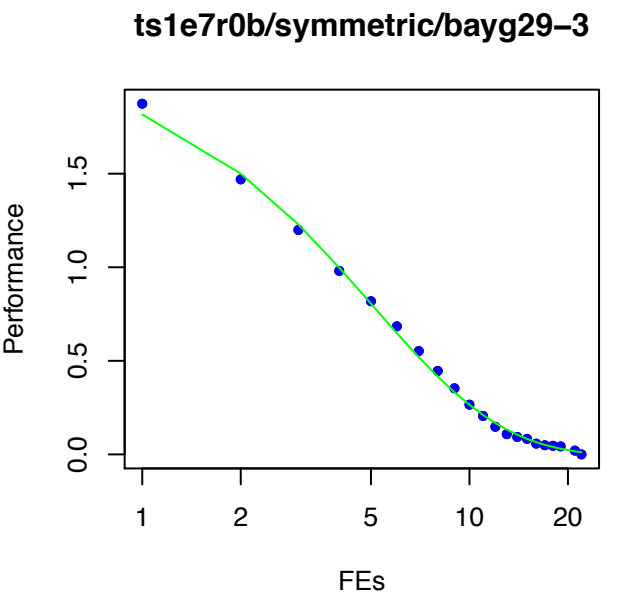
FEs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Performance
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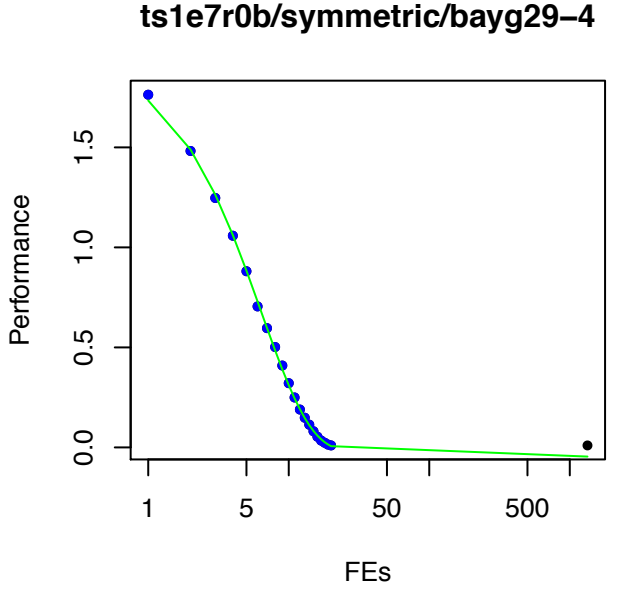
FEs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Performance
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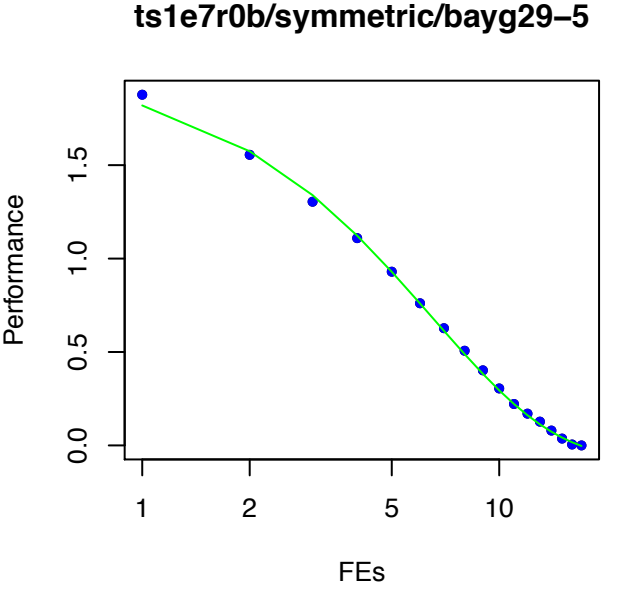
500
FEs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Performance
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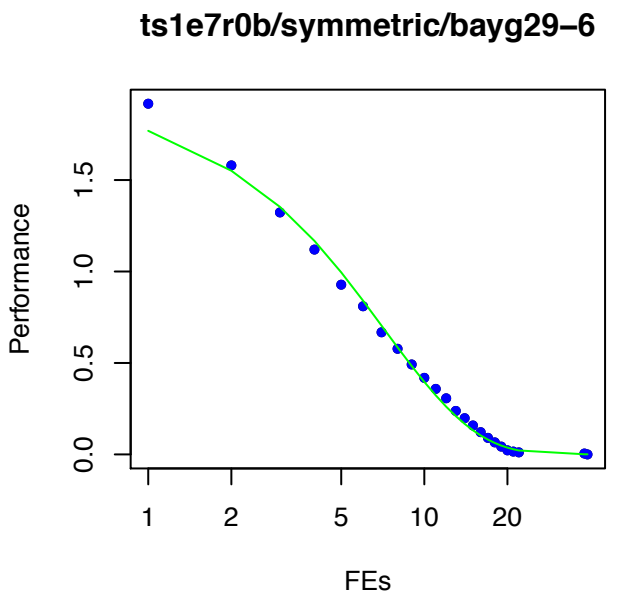
10
FEs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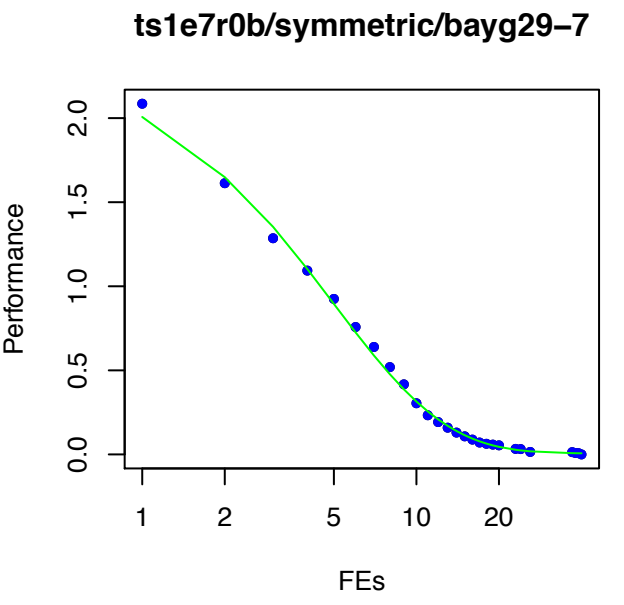
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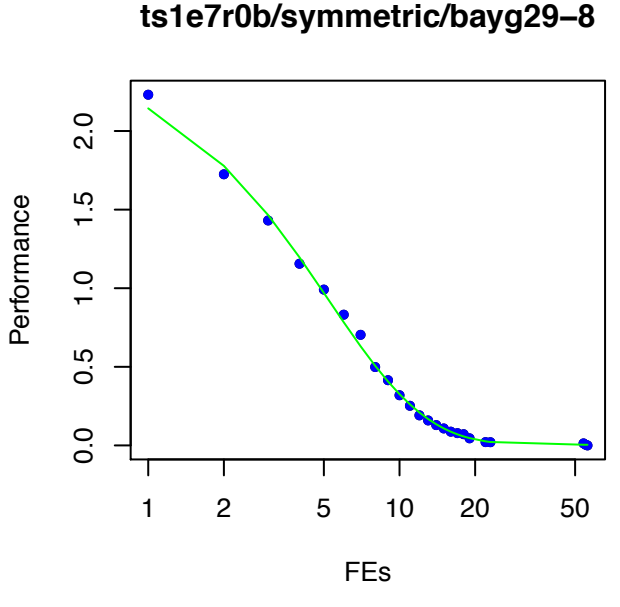
FEs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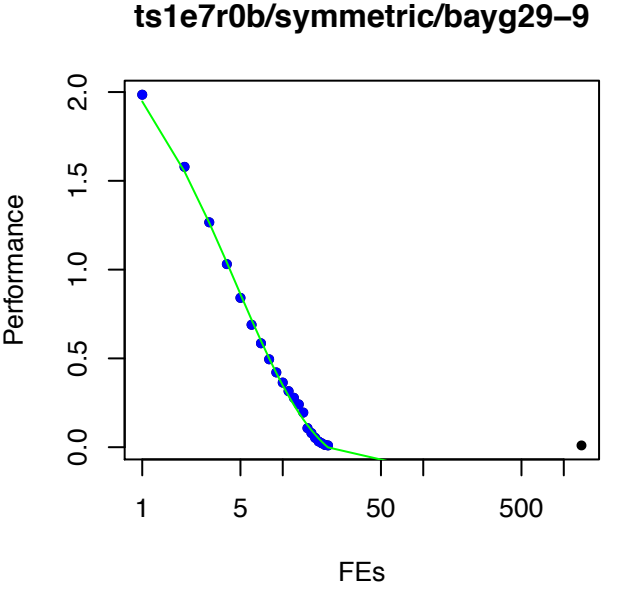
FEs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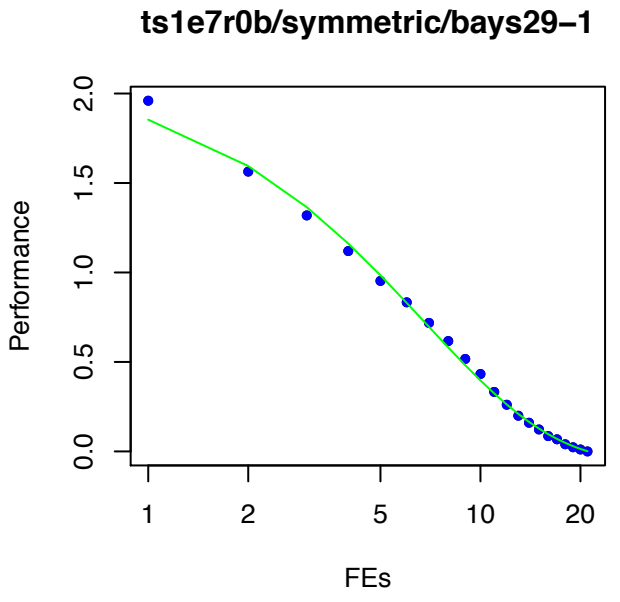
FEs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Performance
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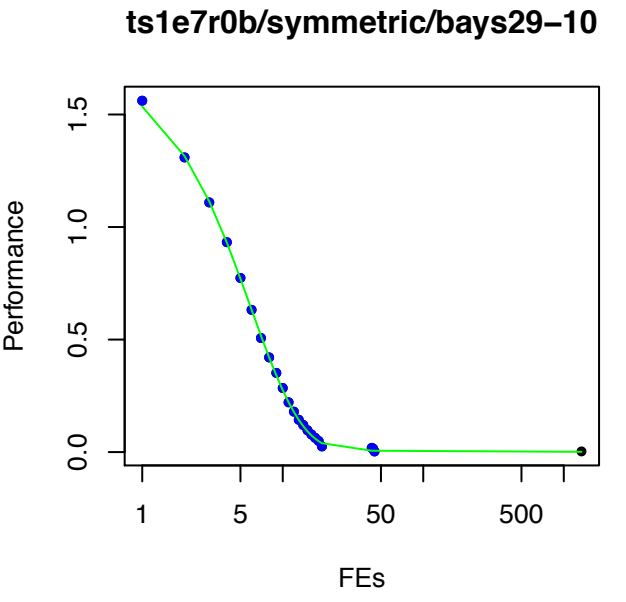
10
20
FEs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Performance
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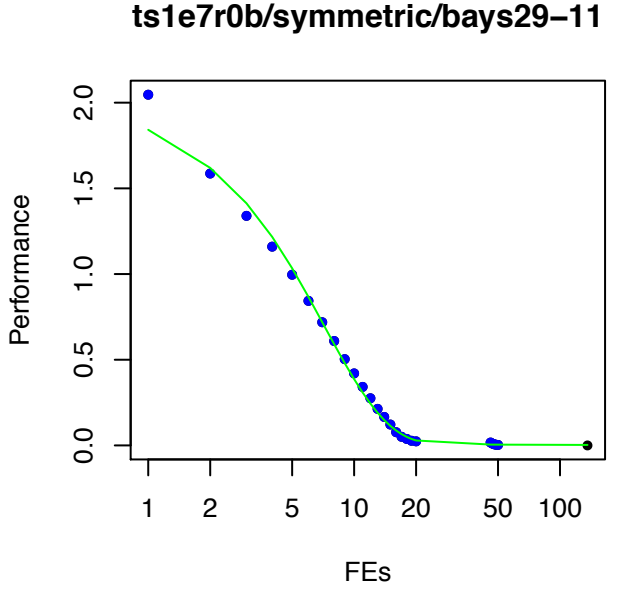
FEs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Performance
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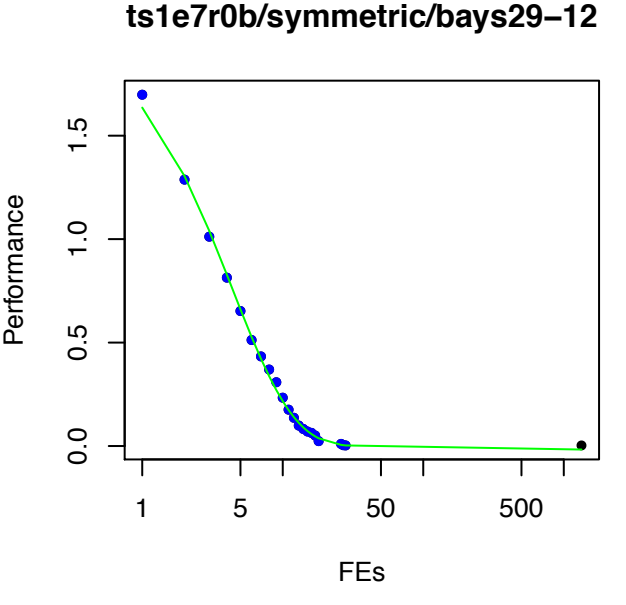
FEs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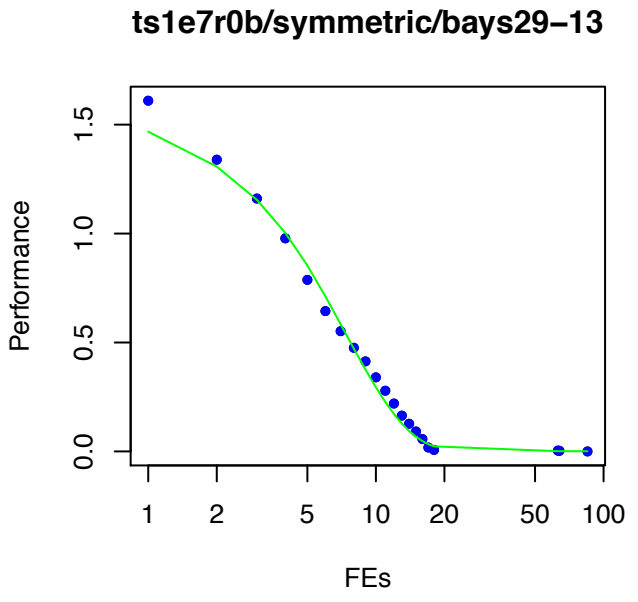
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Performance
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10
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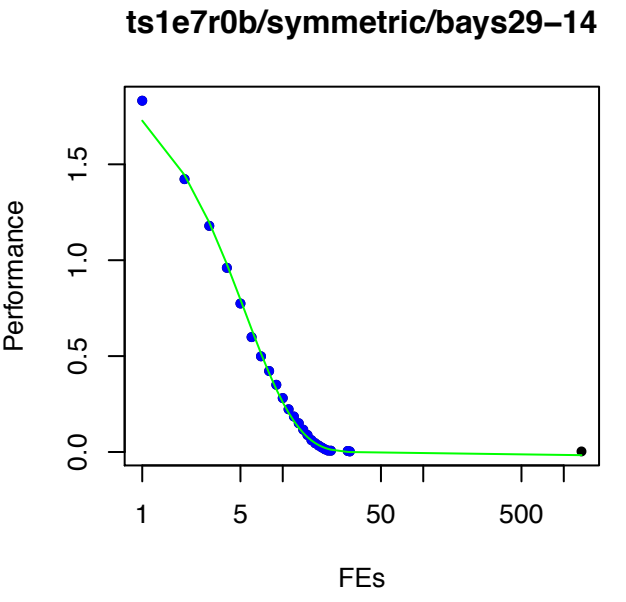
50
100
FEs


ts1e7r0b/symmetric/bays29−14
Performance
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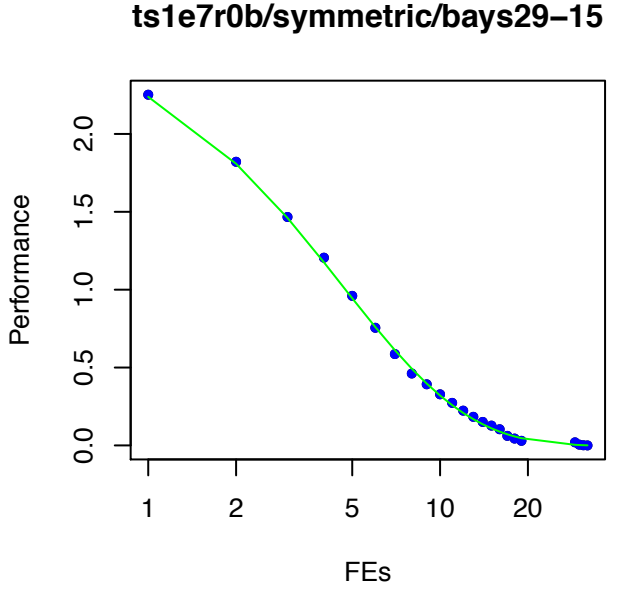
FEs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Performance
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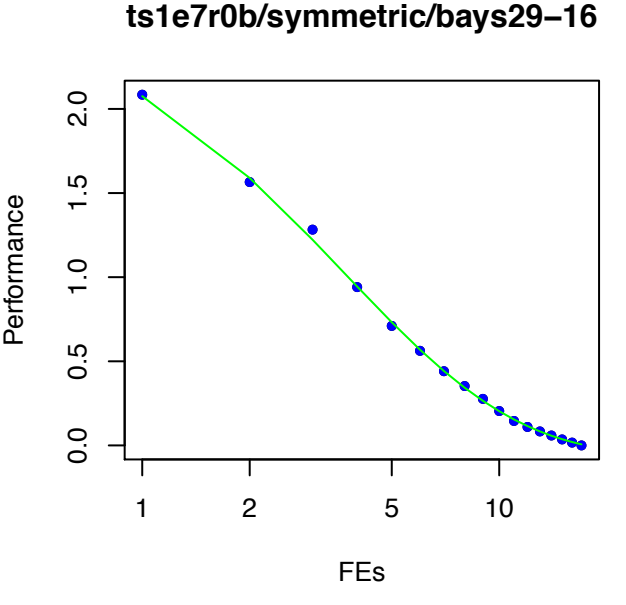
5
10
20
FEs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Performance
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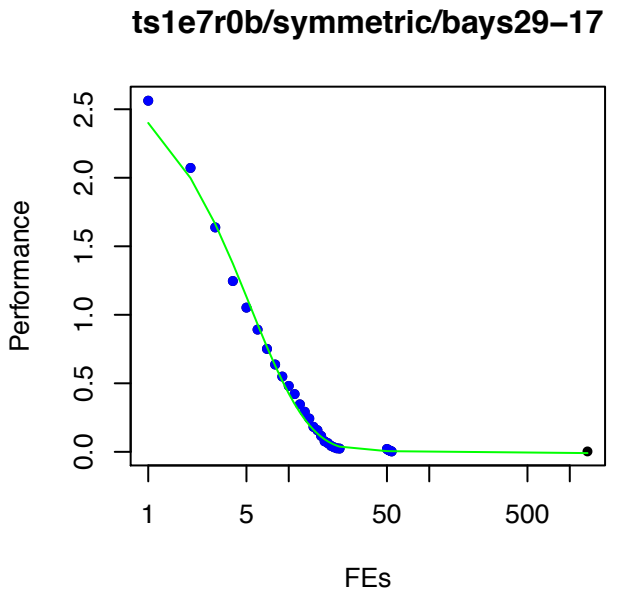
5
10
FEs


ts1e7r0b/symmetric/bays29−17
Performance
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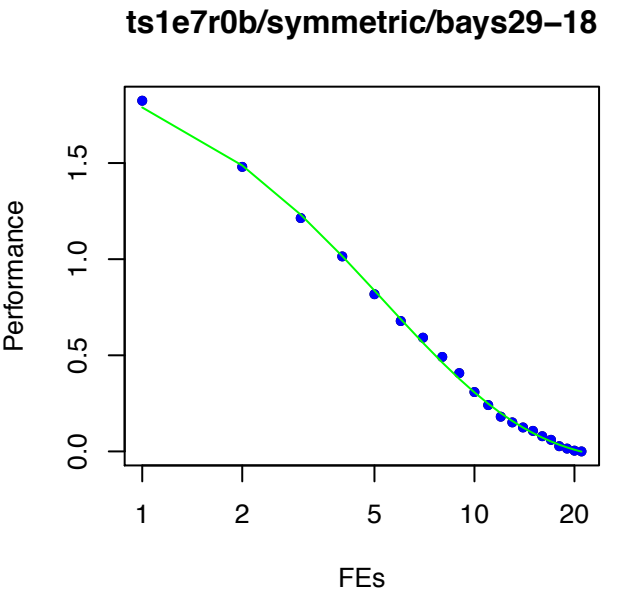
500
FEs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Performance
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2
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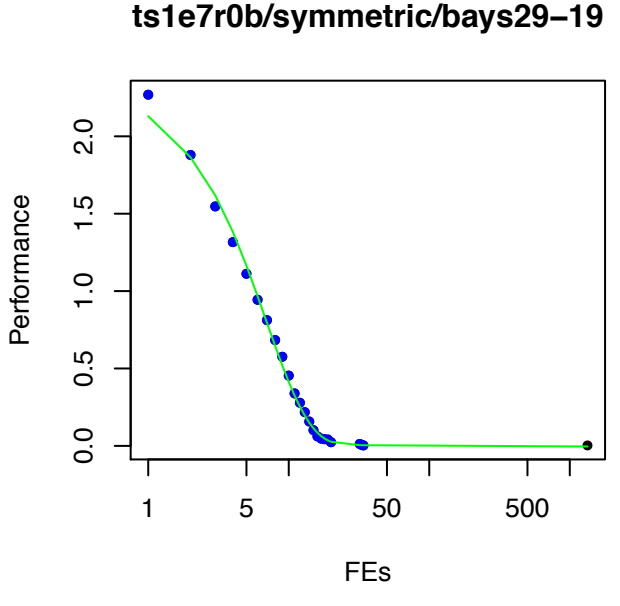
10
20
FEs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Performance
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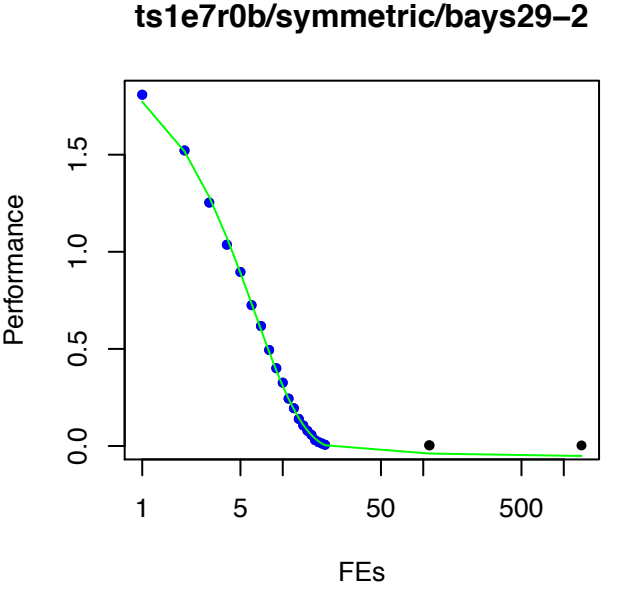
FEs


ts1e7r0b/symmetric/bays29−2
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1.5
1
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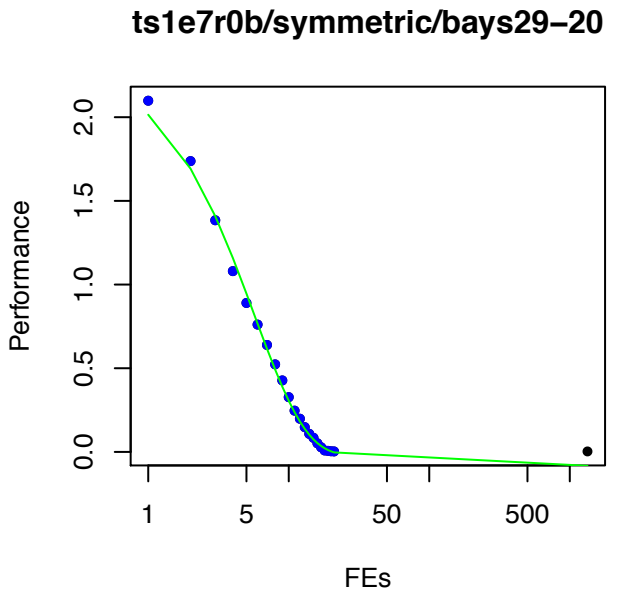
500
FEs


ts1e7r0b/symmetric/bays29−20
Performance
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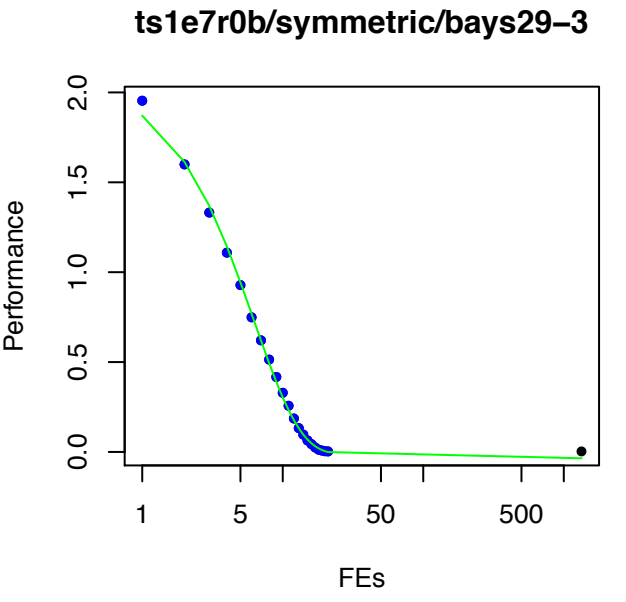
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts1e7r0b/symmetric/bays29−3
Performance
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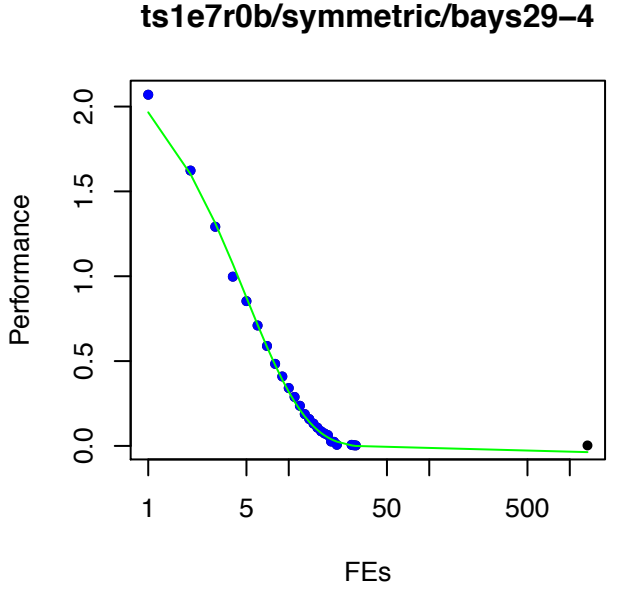
1.0
1.5
2.0
1
5
50
500
FEs


ts1e7r0b/symmetric/bays29−4
Performance
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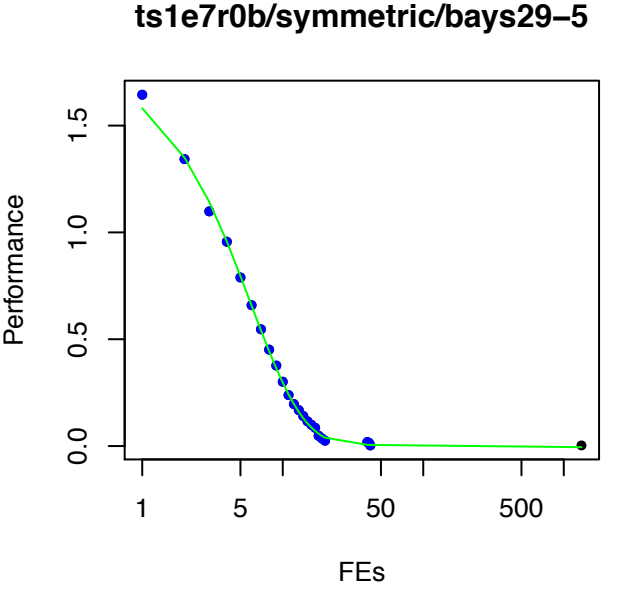
1.0
1.5
2.0
1
5
50
500
FEs


ts1e7r0b/symmetric/bays29−5
Performance
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0.5
1.0
1.5
1
5
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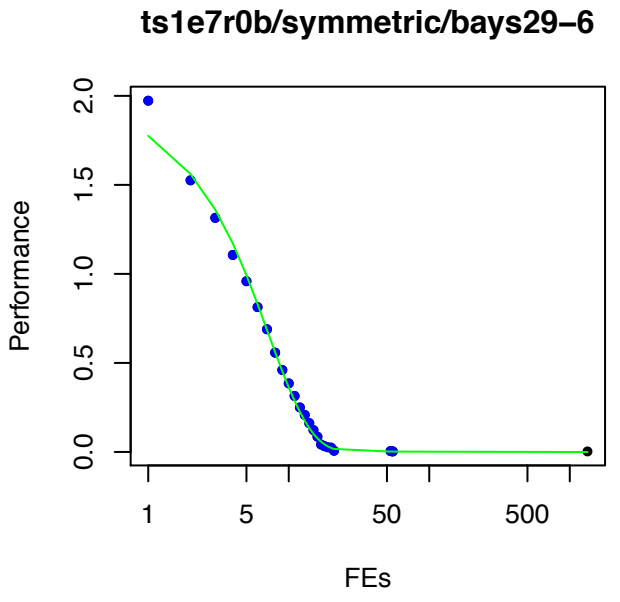
500
FEs


ts1e7r0b/symmetric/bays29−6
Performance
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1.0
1.5
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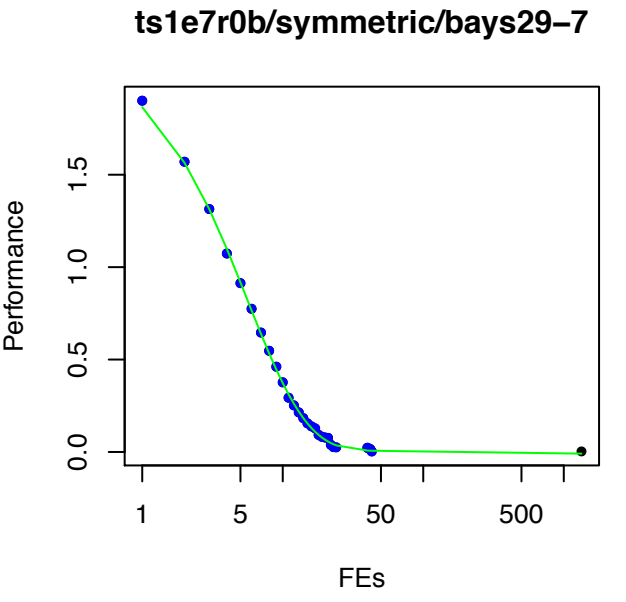
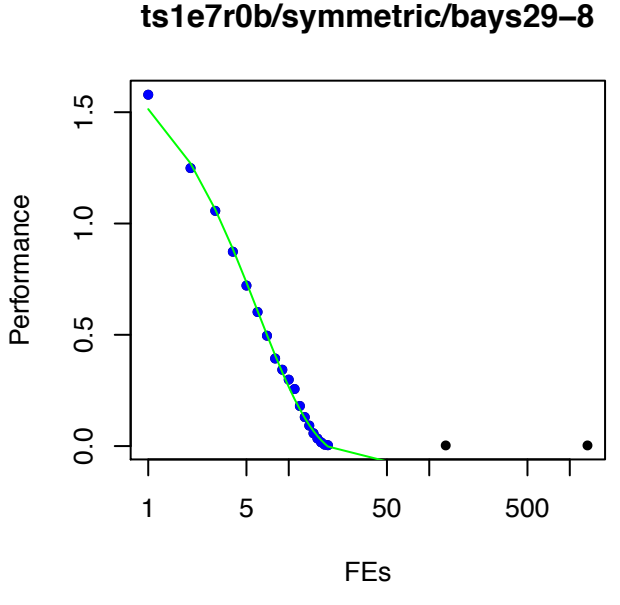
1
5
50
500
FEs


ts1e7r0b/symmetric/bays29−7
Performance
0.0
0.5
1.0
1.5
1
5
50
500
FEs


ts1e7r0b/symmetric/bays29−8
Performance
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0.5
1.0
1.5
1
5
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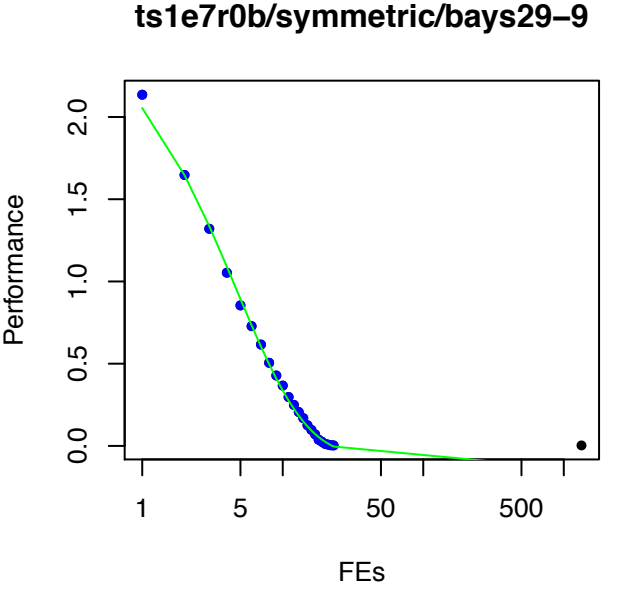
500
FEs


ts1e7r0b/symmetric/bays29−9
Performance
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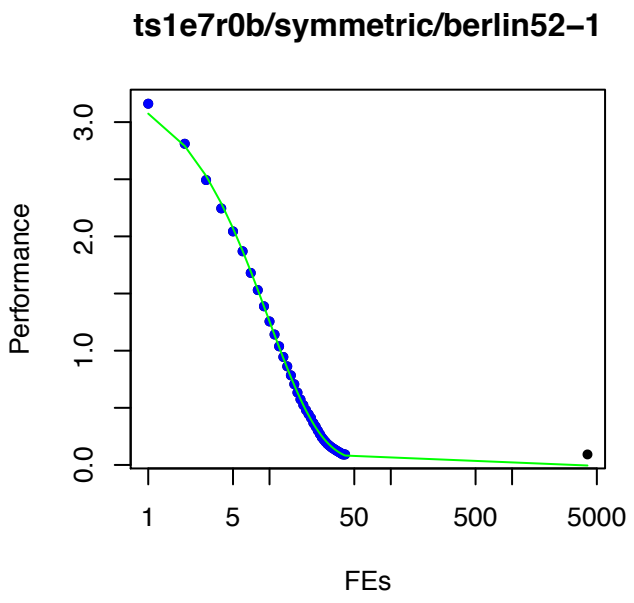
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts1e7r0b/symmetric/berlin52−1
Performance
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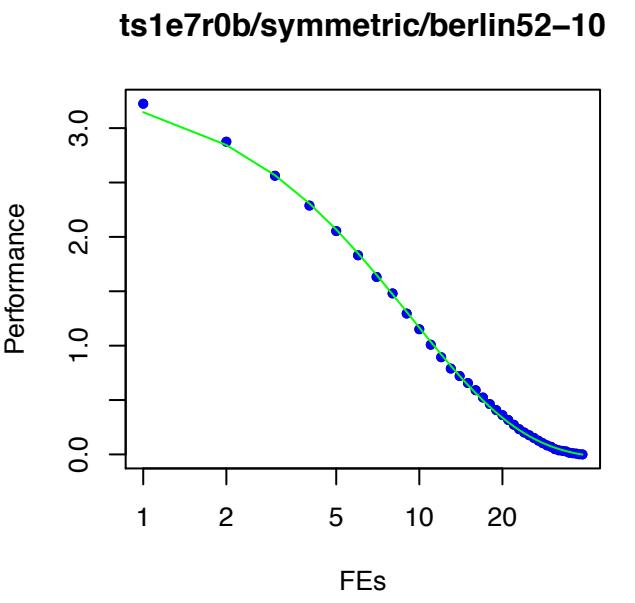
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/berlin52−10
Performance
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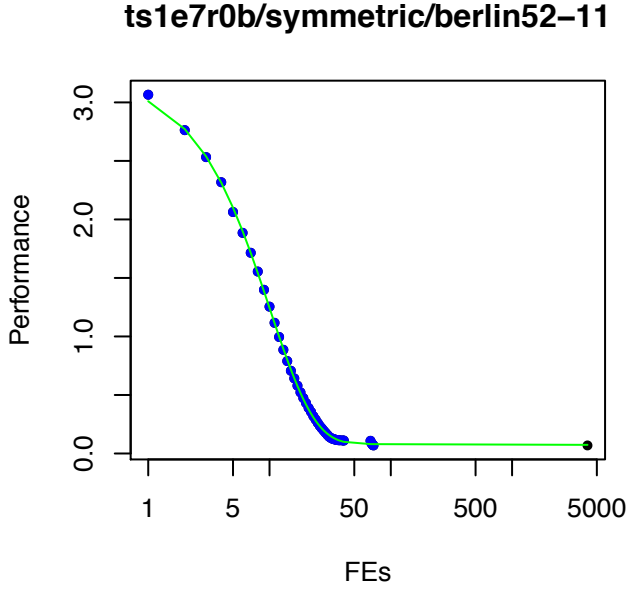
1.0
2.0
3.0
1
2
5
10
20
FEs


ts1e7r0b/symmetric/berlin52−11
Performance
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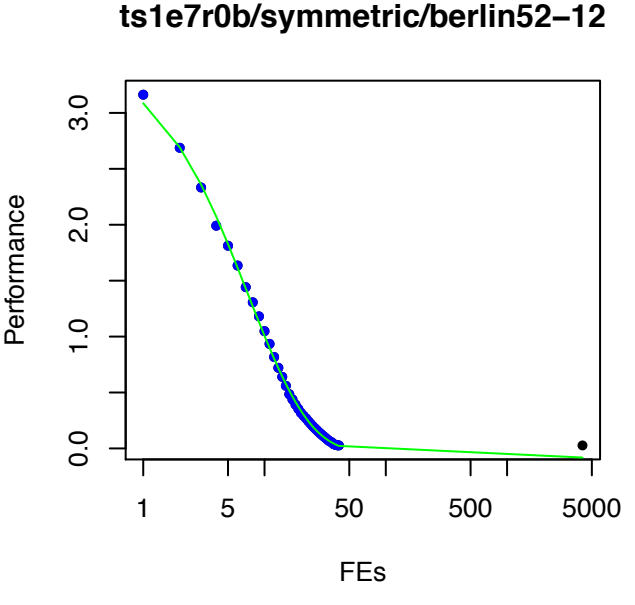
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/berlin52−12
Performance
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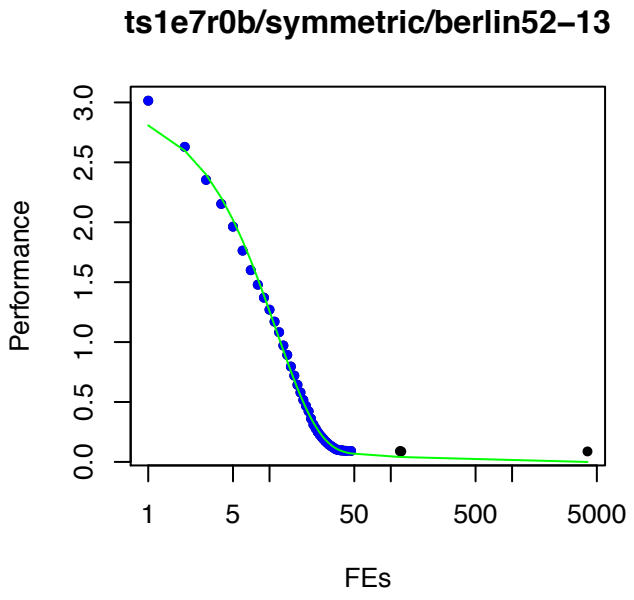
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/berlin52−13
Performance
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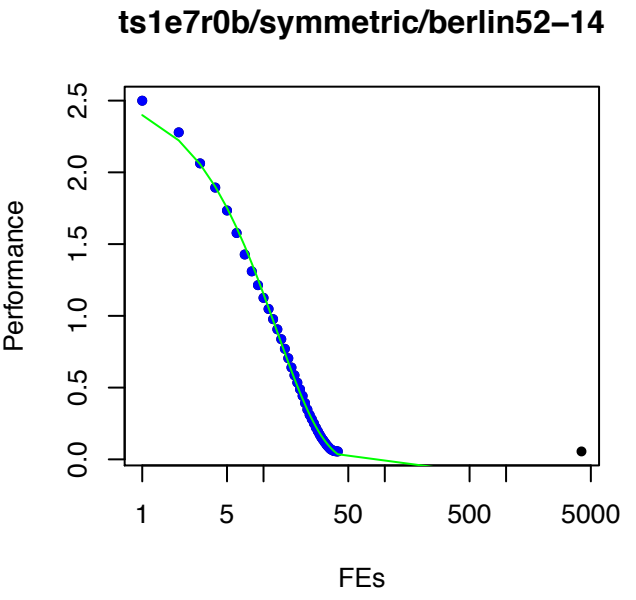
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/berlin52−14
Performance
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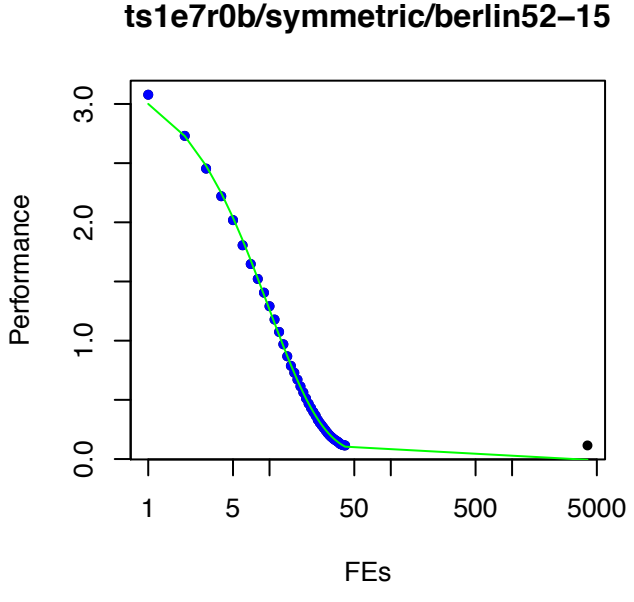
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/berlin52−15
Performance
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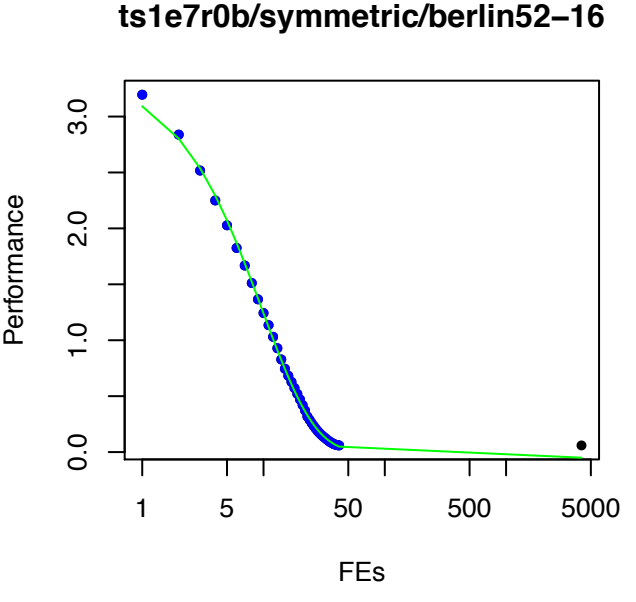
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/berlin52−16
Performance
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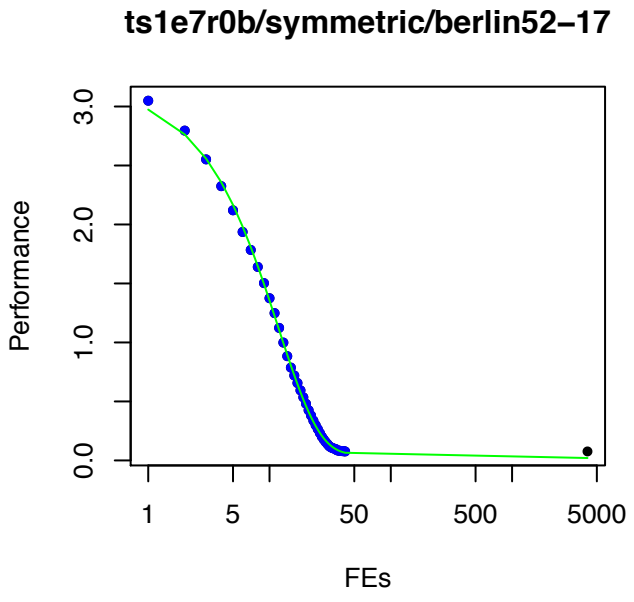
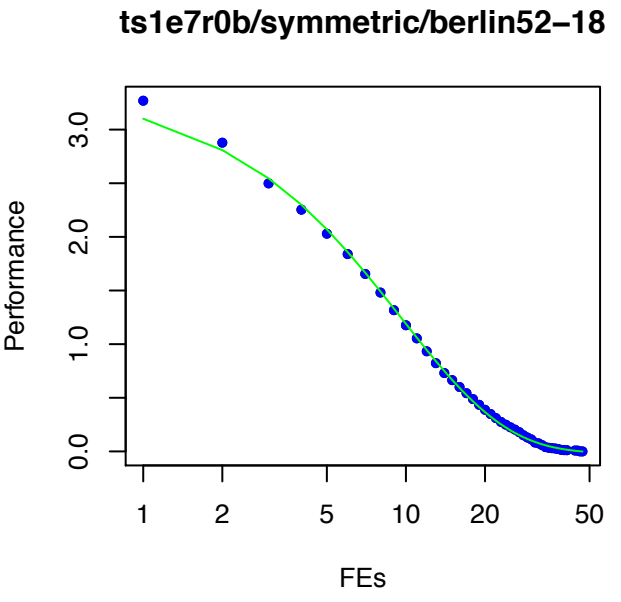
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/berlin52−17
Performance
0.0
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/berlin52−18
Performance
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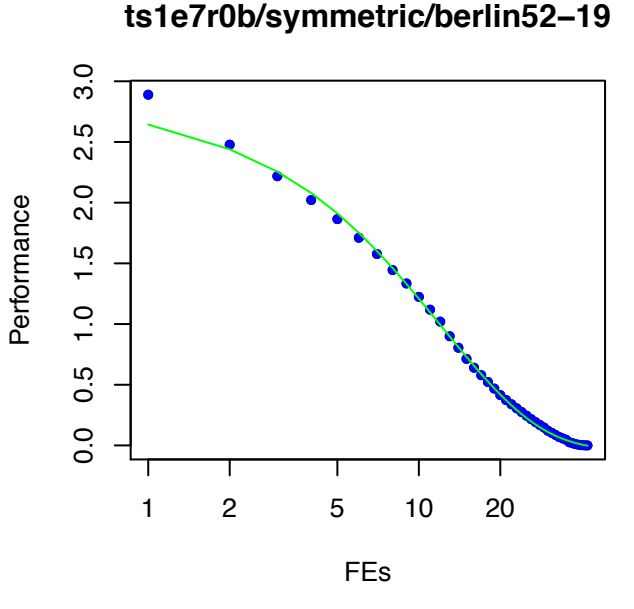
2.0
3.0
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/berlin52−19
Performance
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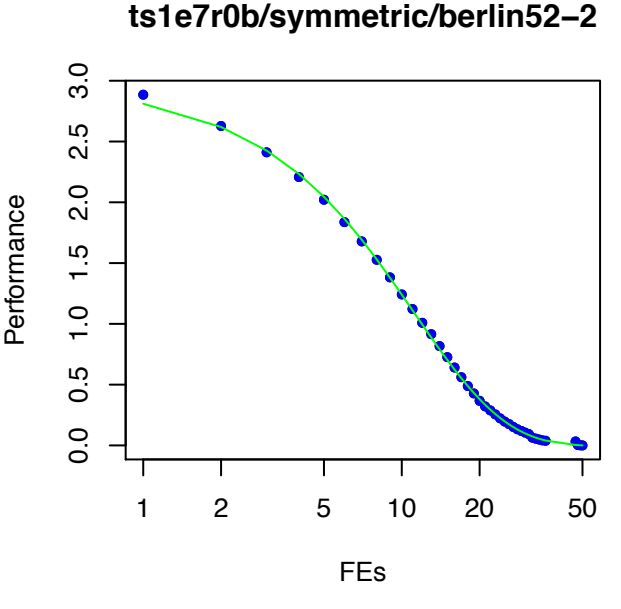
0.5
1.0
1.5
2.0
2.5
3.0
1
2
5
10
20
FEs


ts1e7r0b/symmetric/berlin52−2
Performance
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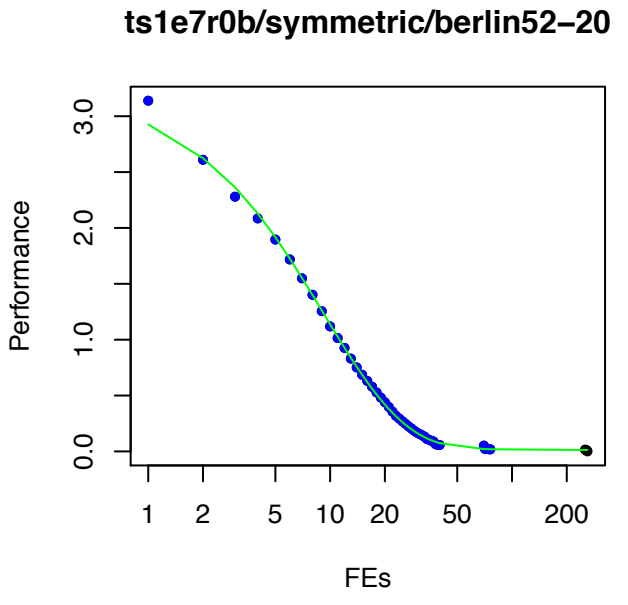
1.5
2.0
2.5
3.0
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/berlin52−20
Performance
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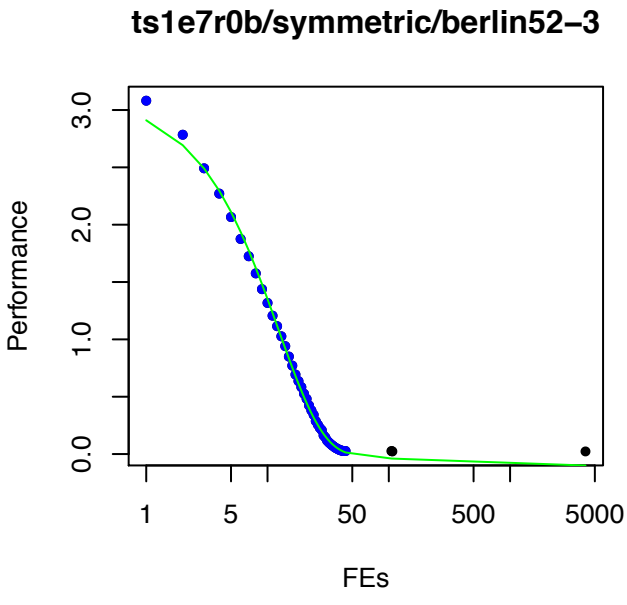
2.0
3.0
1
2
5
10
20
50
200
FEs


ts1e7r0b/symmetric/berlin52−3
Performance
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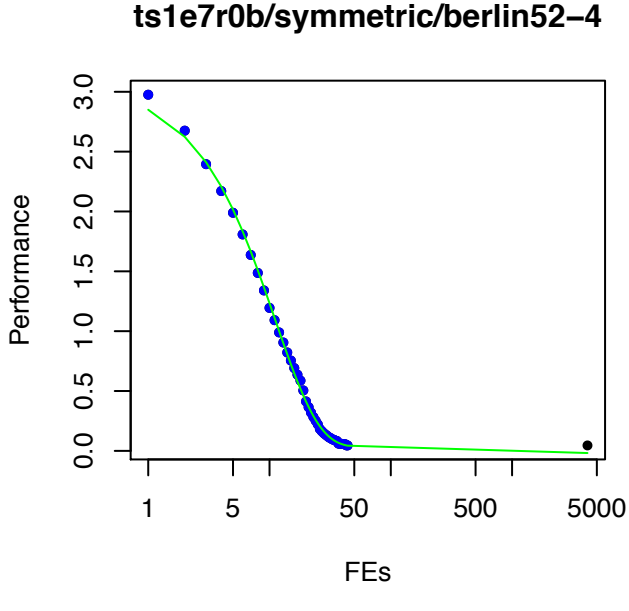
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/berlin52−4
Performance
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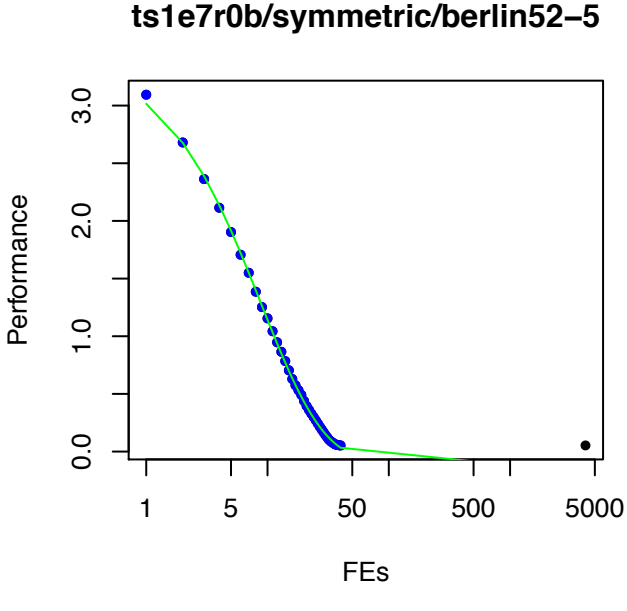
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/berlin52−5
Performance
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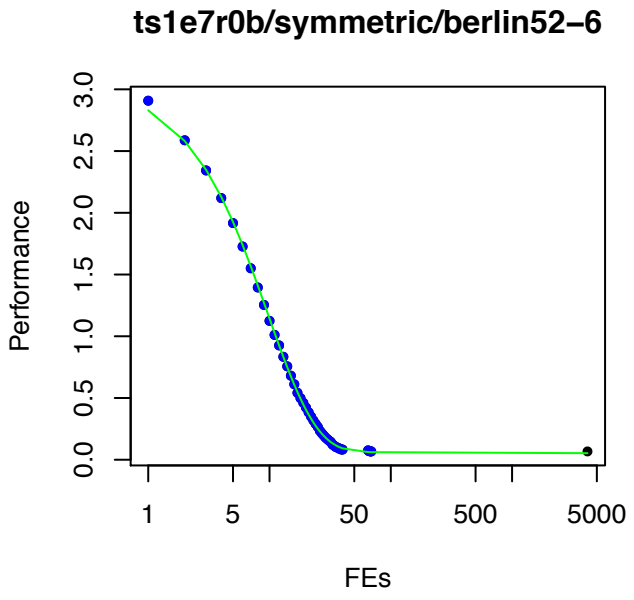
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/berlin52−6
Performance
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1.5
2.0
2.5
3.0
1
5
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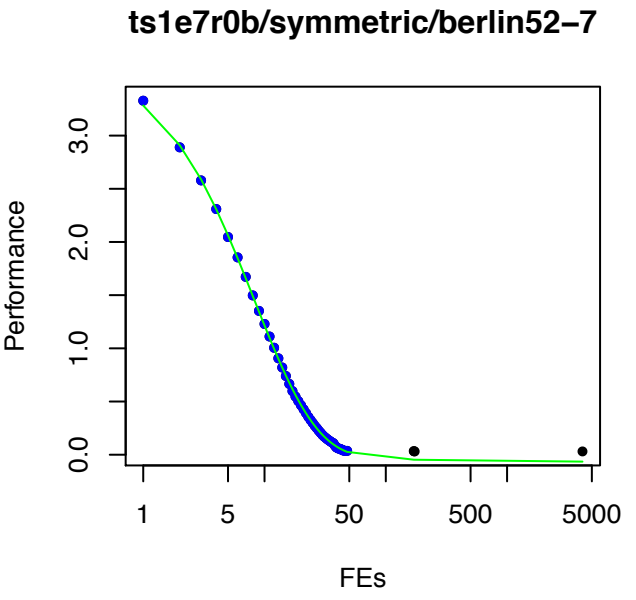
500
5000
FEs


ts1e7r0b/symmetric/berlin52−7
Performance
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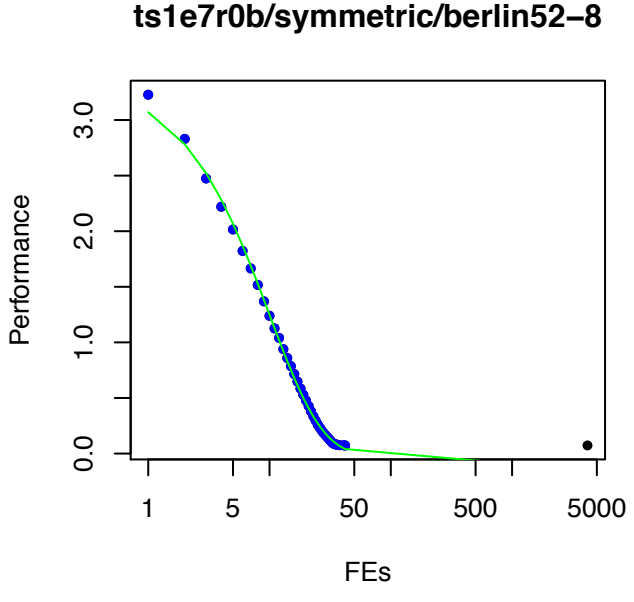
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/berlin52−8
Performance
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2.0
3.0
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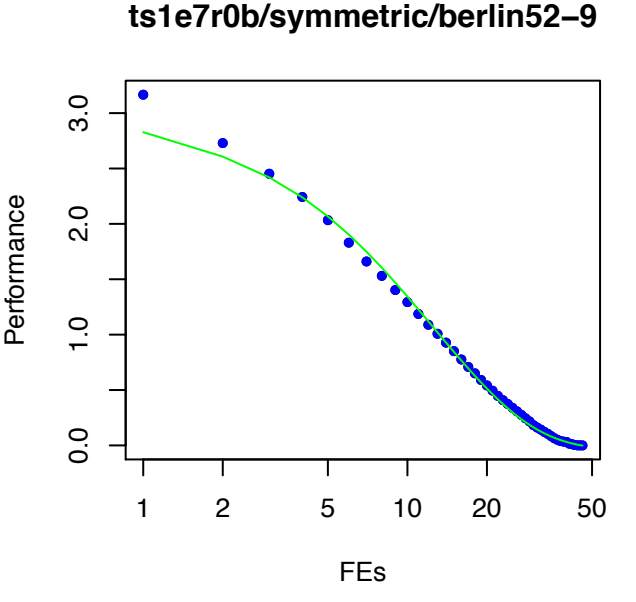
5
50
500
5000
FEs


ts1e7r0b/symmetric/berlin52−9
Performance
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3.0
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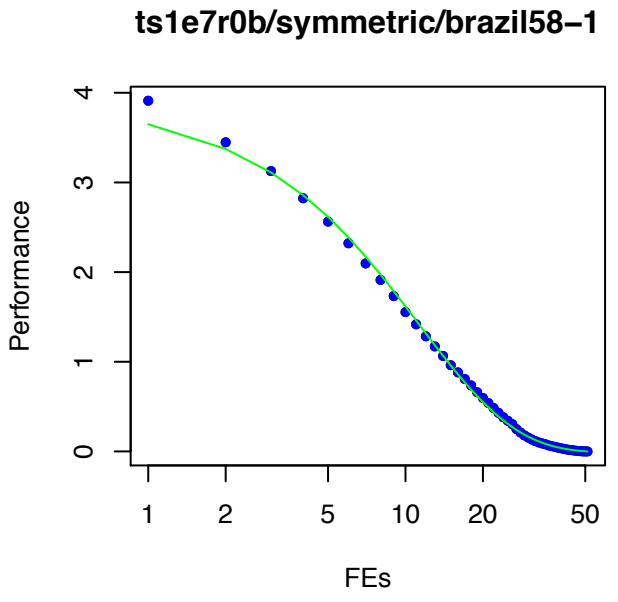
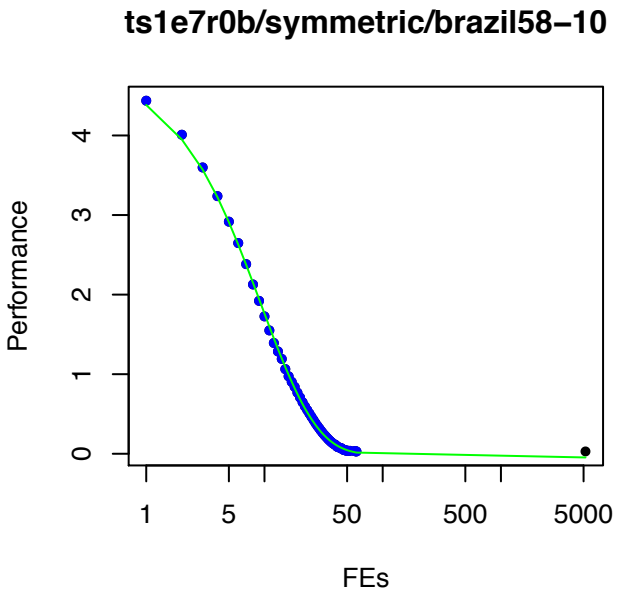
2
5
10
20
50
FEs


ts1e7r0b/symmetric/brazil58−1
Performance
0
1
2
3
4
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/brazil58−10
Performance
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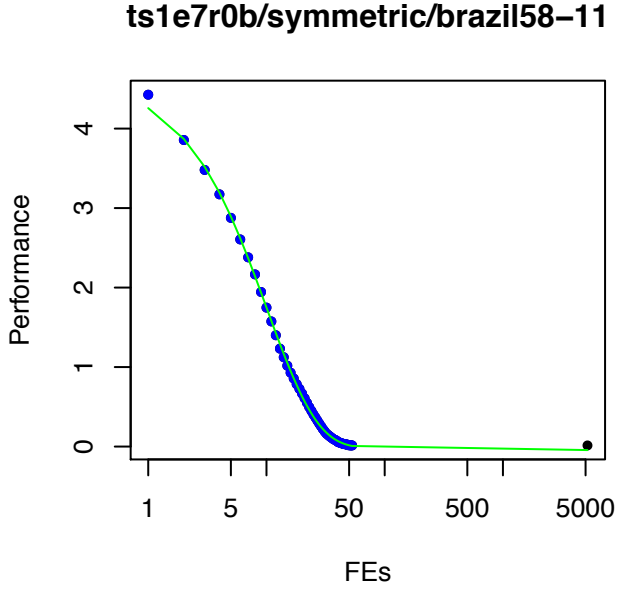
2
3
4
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/brazil58−11
Performance
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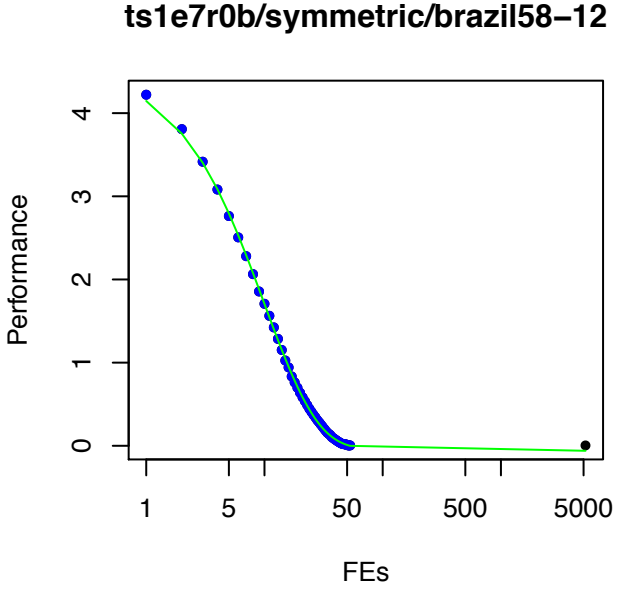
3
4
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/brazil58−12
Performance
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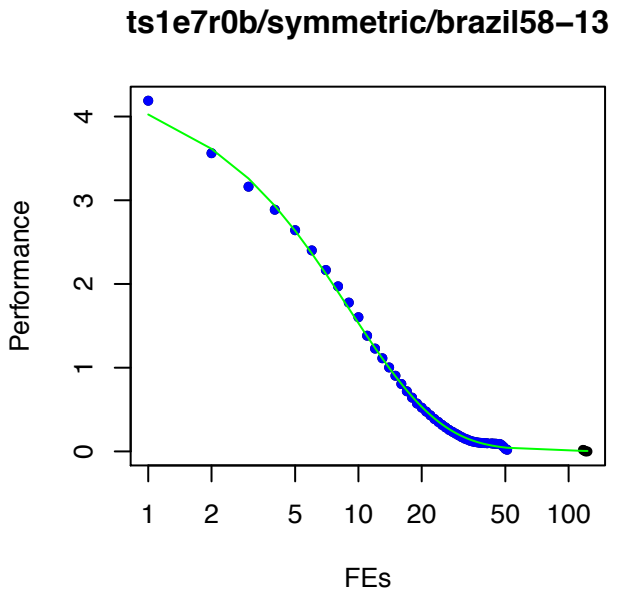
2
3
4
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/brazil58−13
Performance
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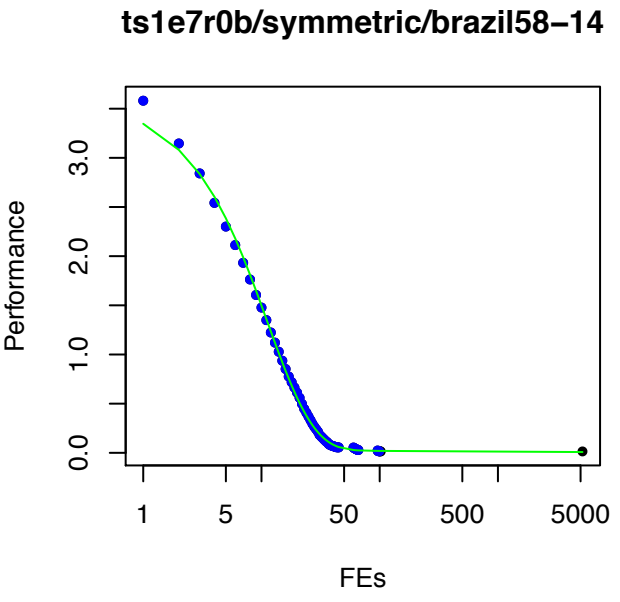
1
2
3
4
1
2
5
10
20
50
100
FEs


ts1e7r0b/symmetric/brazil58−14
Performance
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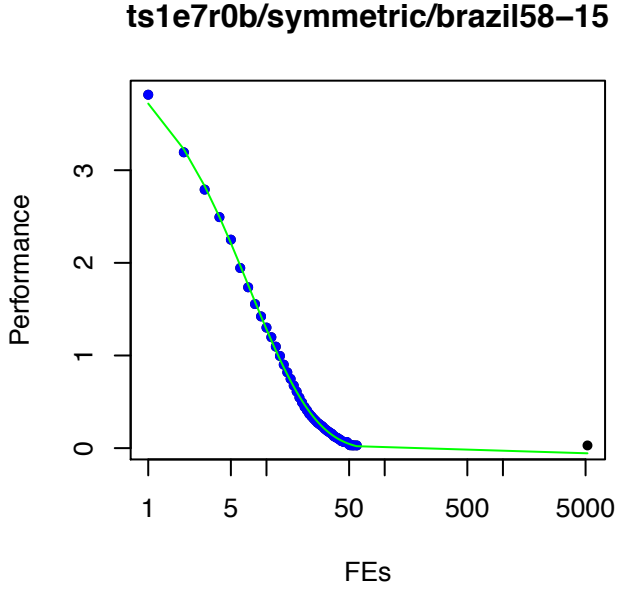
3.0
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/brazil58−15
Performance
0
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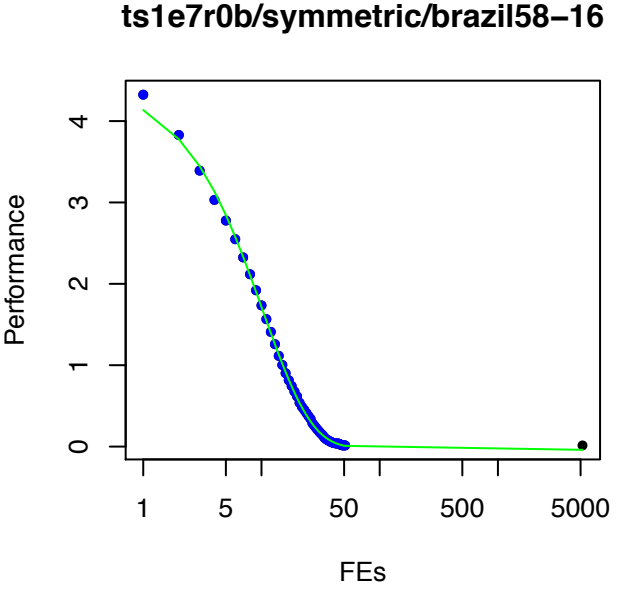
2
3
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/brazil58−16
Performance
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1
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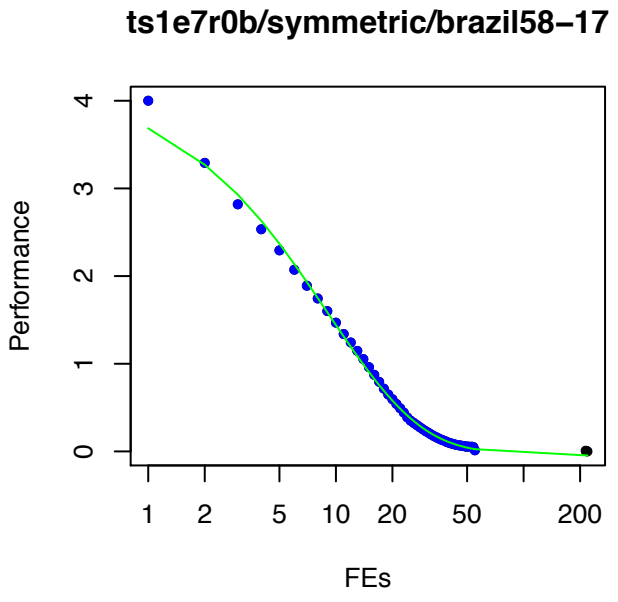
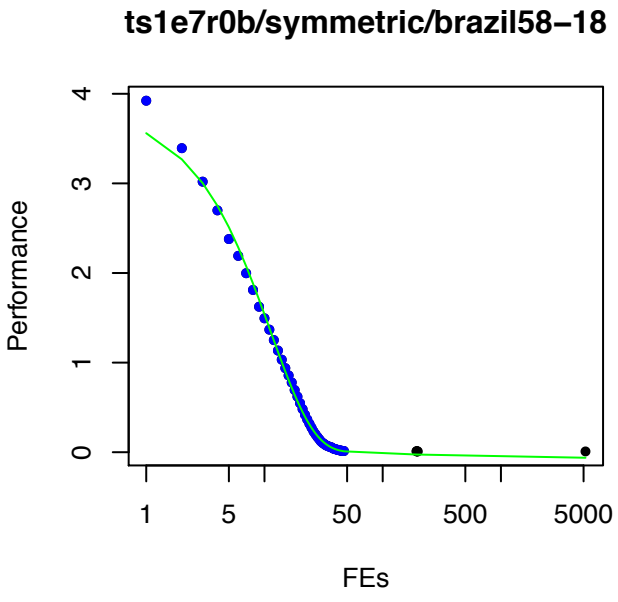
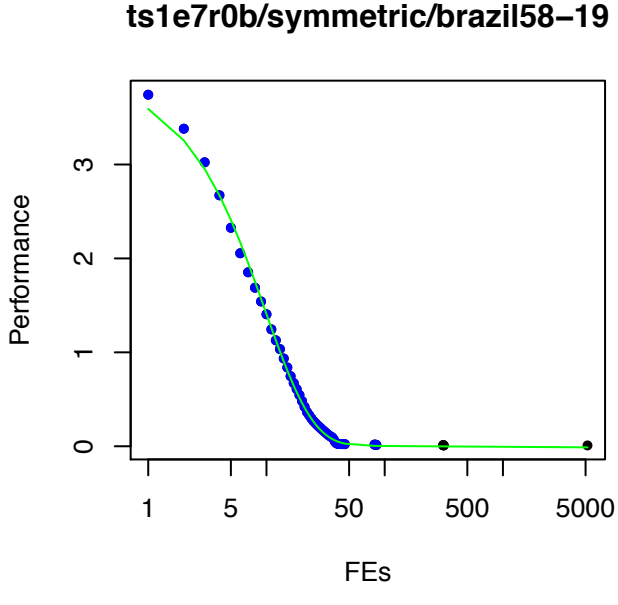
3
4
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/brazil58−17
Performance
0
1
2
3
4
1
2
5
10
20
50
200
FEs


ts1e7r0b/symmetric/brazil58−18
Performance
0
1
2
3
4
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/brazil58−19
Performance
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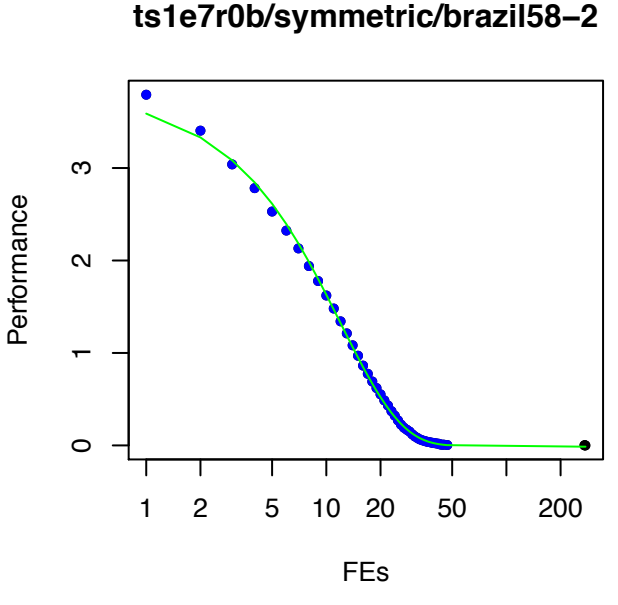
2
3
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/brazil58−2
Performance
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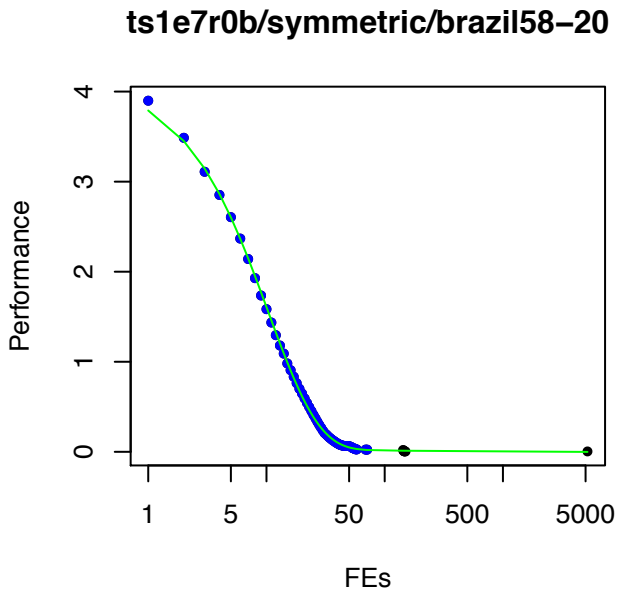
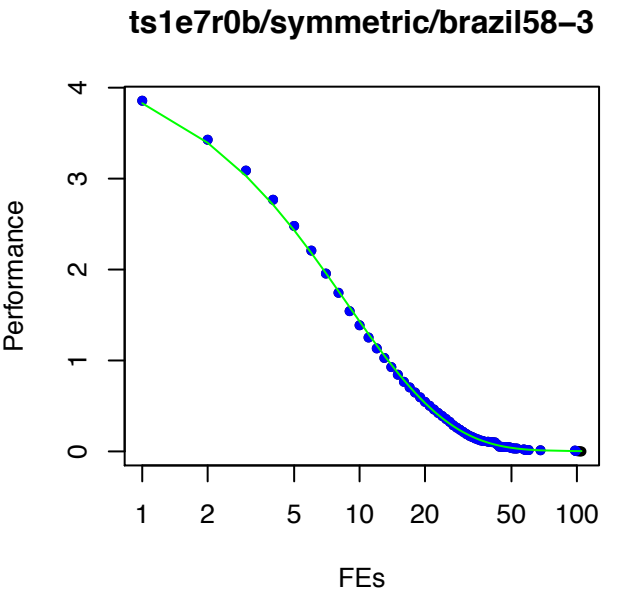
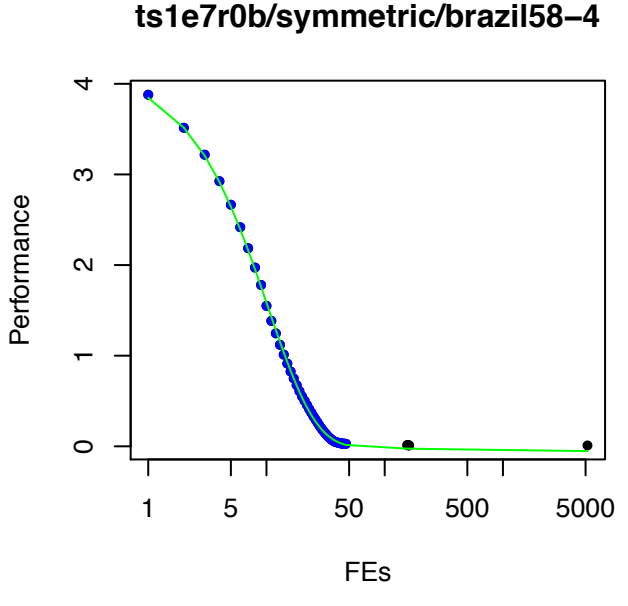
1
2
3
1
2
5
10
20
50
200
FEs


ts1e7r0b/symmetric/brazil58−20
Performance
0
1
2
3
4
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/brazil58−3
Performance
0
1
2
3
4
1
2
5
10
20
50
100
FEs


ts1e7r0b/symmetric/brazil58−4
Performance
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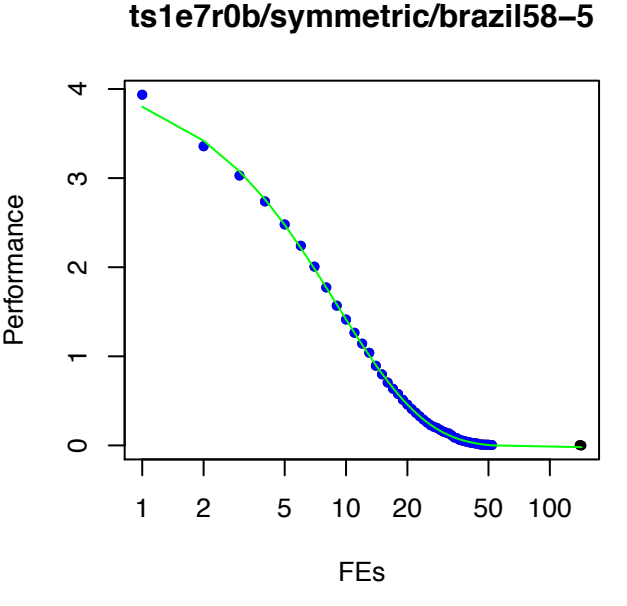
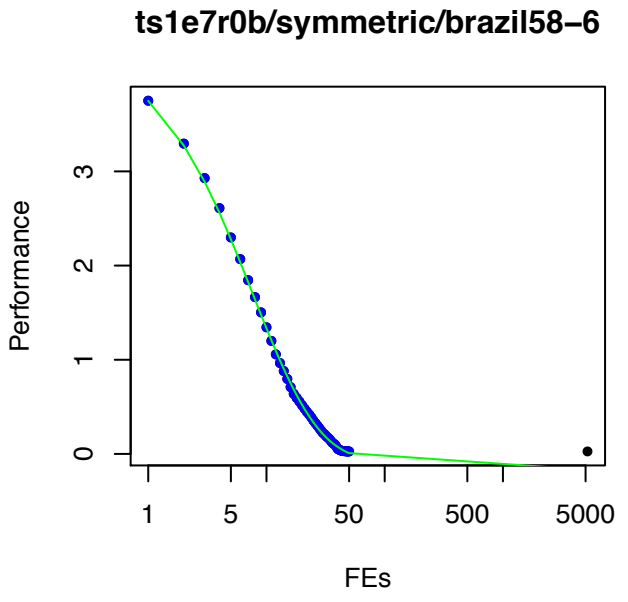
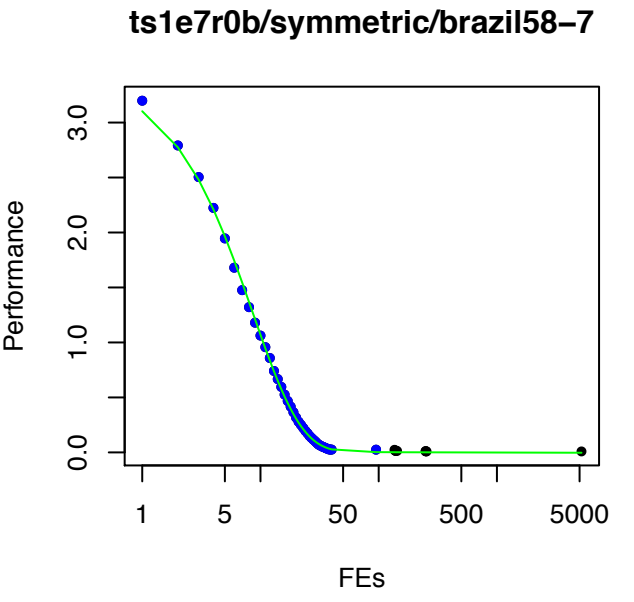
1
2
3
4
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/brazil58−5
Performance
0
1
2
3
4
1
2
5
10
20
50
100
FEs


ts1e7r0b/symmetric/brazil58−6
Performance
0
1
2
3
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/brazil58−7
Performance
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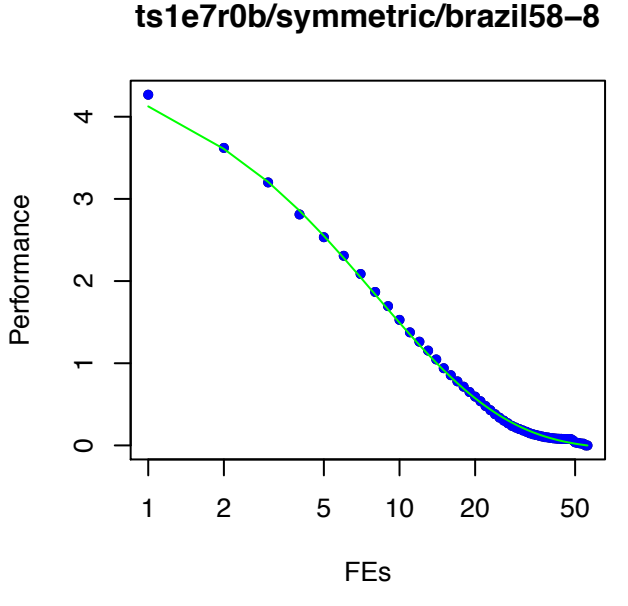
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/brazil58−8
Performance
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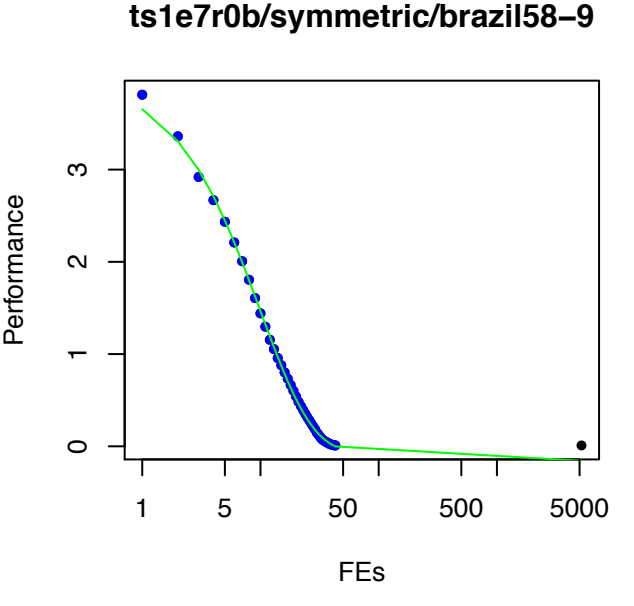
1
2
3
4
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/brazil58−9
Performance
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2
3
1
5
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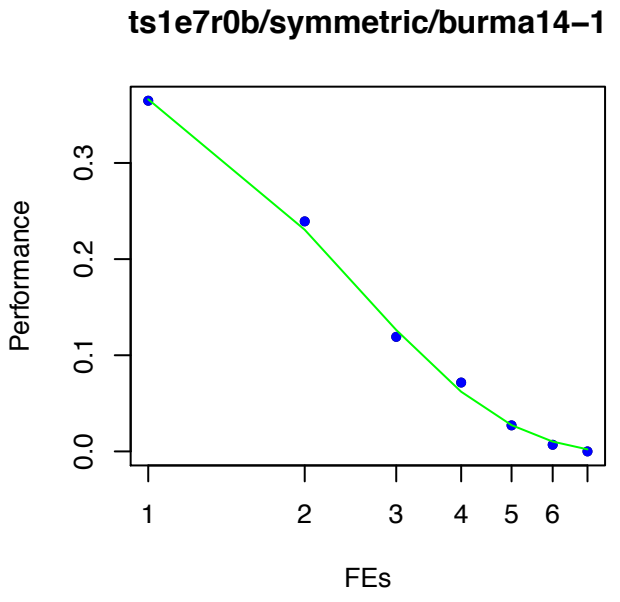
5000
FEs


ts1e7r0b/symmetric/burma14−1
Performance
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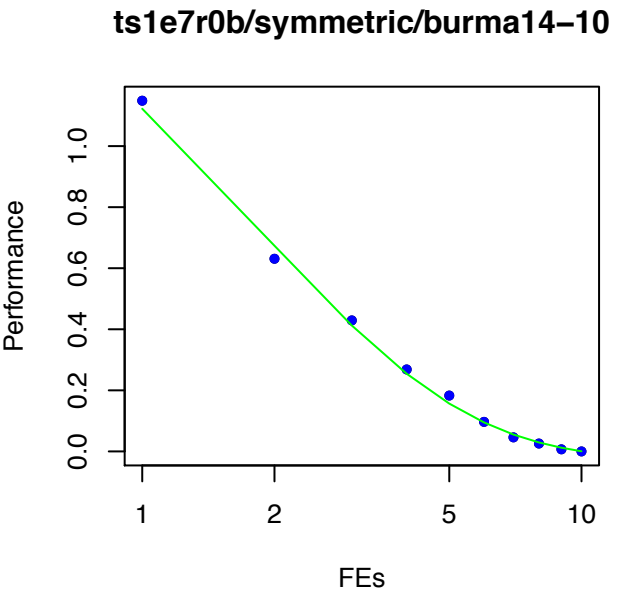
0.1
0.2
0.3
1
2
3
4
5
6
FEs


ts1e7r0b/symmetric/burma14−10
Performance
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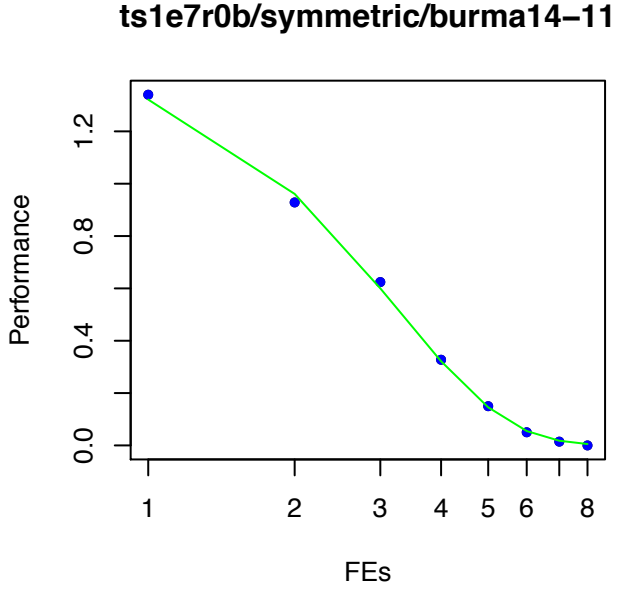
0.2
0.4
0.6
0.8
1.0
1
2
5
10
FEs


ts1e7r0b/symmetric/burma14−11
Performance
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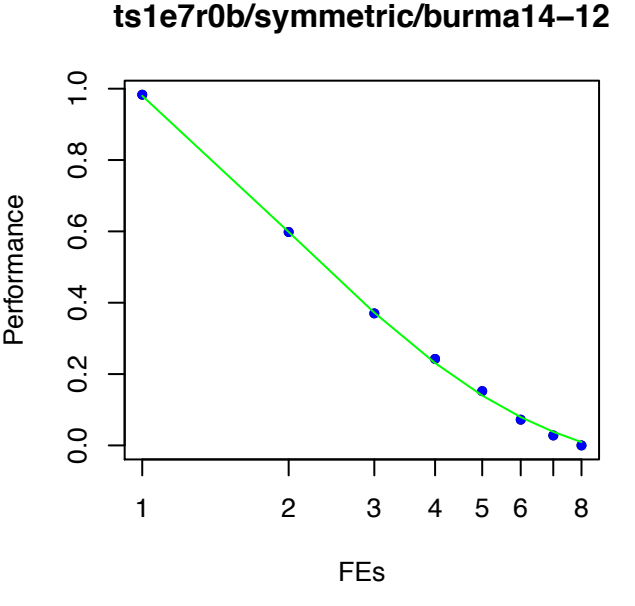
0.4
0.8
1.2
1
2
3
4
5
6
8
FEs


ts1e7r0b/symmetric/burma14−12
Performance
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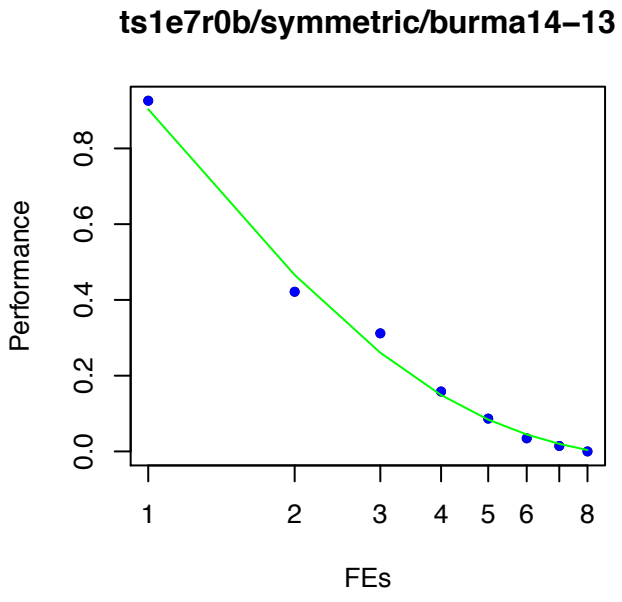
0.4
0.6
0.8
1.0
1
2
3
4
5
6
8
FEs


ts1e7r0b/symmetric/burma14−13
Performance
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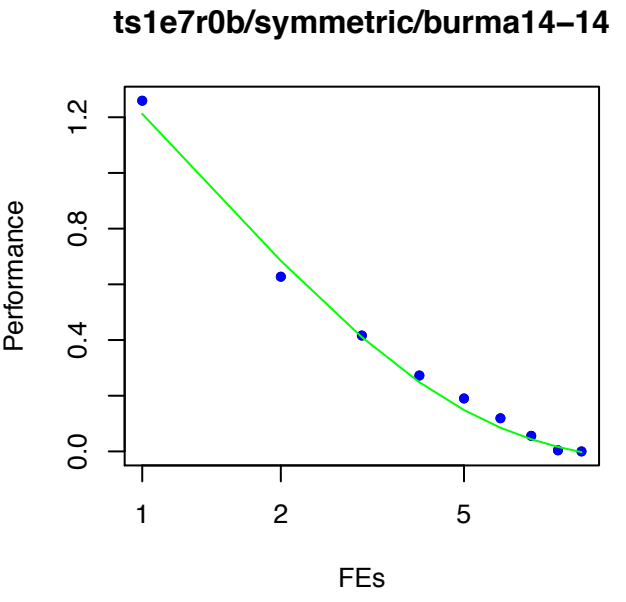
0.4
0.6
0.8
1
2
3
4
5
6
8
FEs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Performance
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0.8
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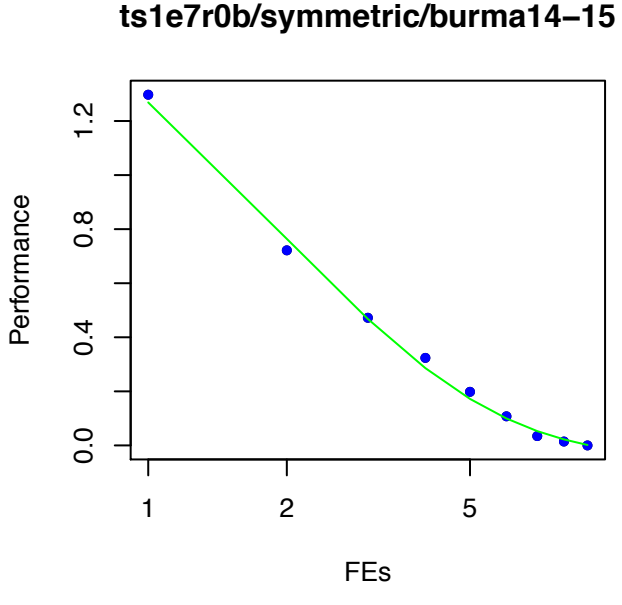
1
2
5
FEs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Performance
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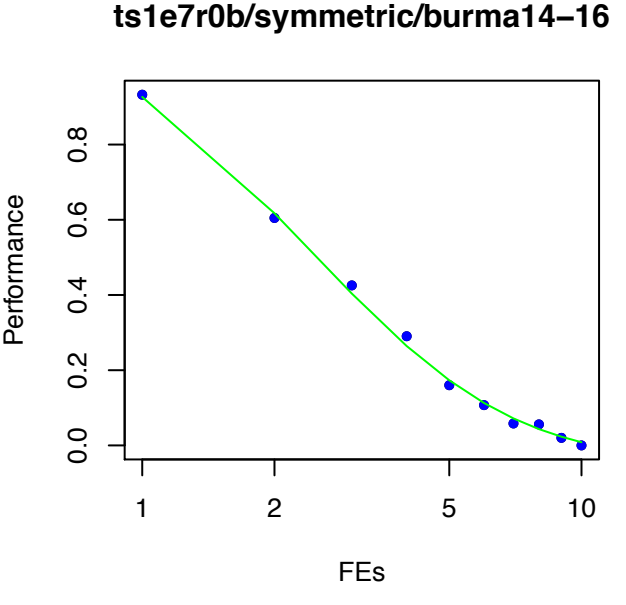
0.8
1.2
1
2
5
FEs


ts1e7r0b/symmetric/burma14−16
Performance
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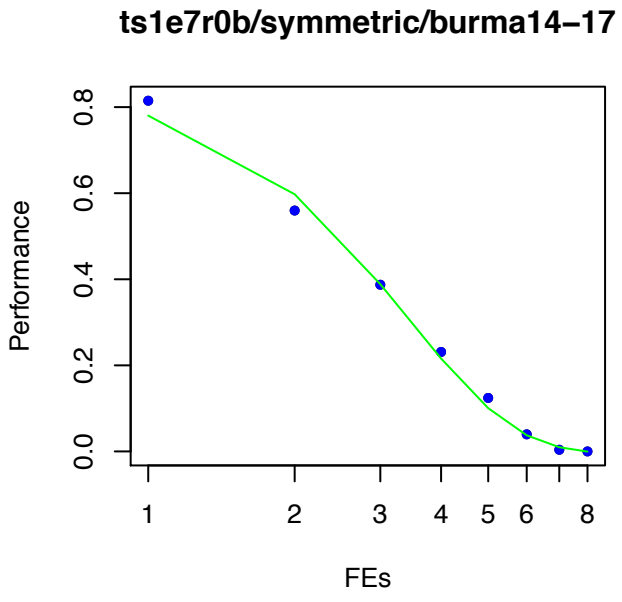
0.2
0.4
0.6
0.8
1
2
5
10
FEs


ts1e7r0b/symmetric/burma14−17
Performance
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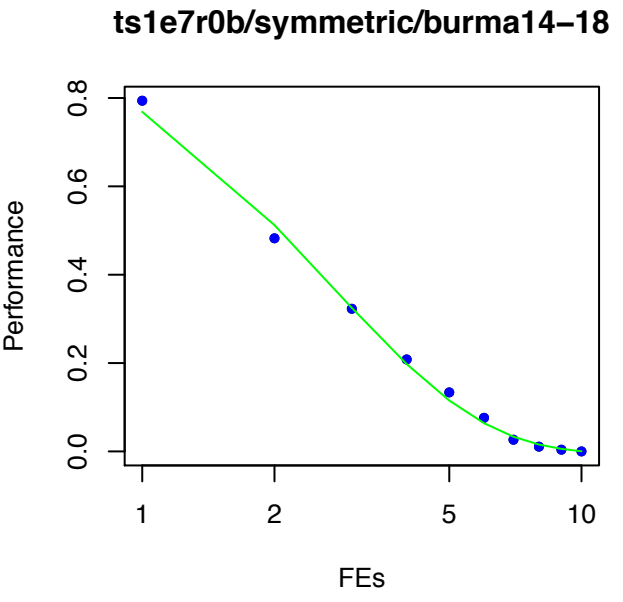
0.2
0.4
0.6
0.8
1
2
3
4
5
6
8
FEs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Performance
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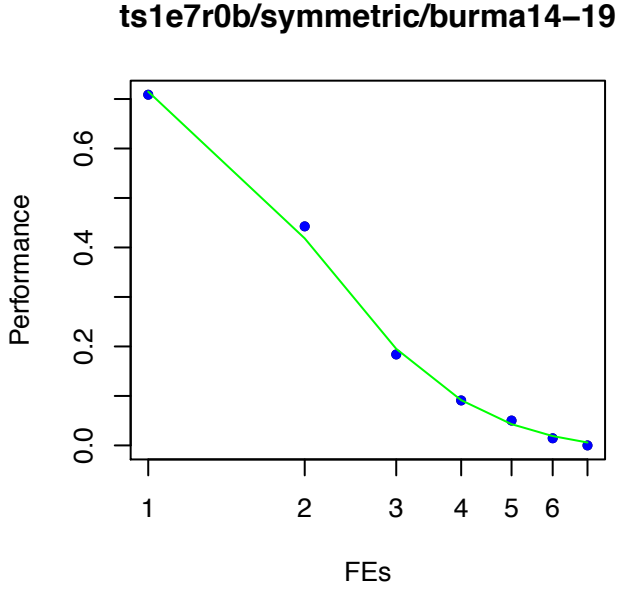
0.2
0.4
0.6
0.8
1
2
5
10
FEs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Performance
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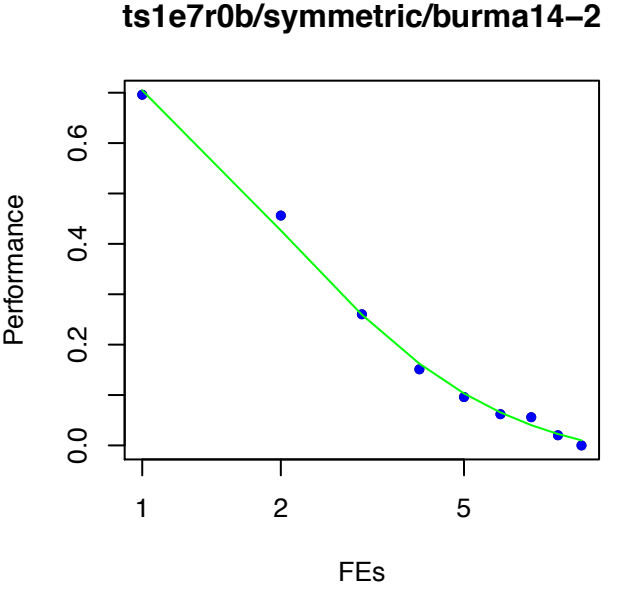
0.4
0.6
1
2
3
4
5
6
FEs


ts1e7r0b/symmetric/burma14−2
Performance
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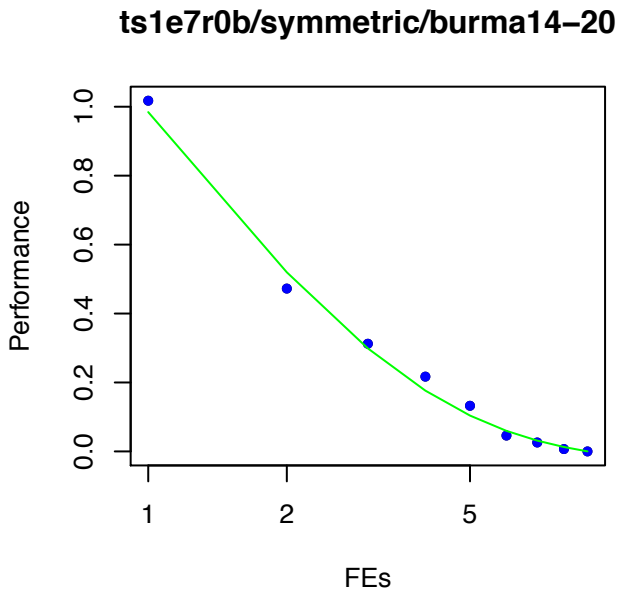
0.2
0.4
0.6
1
2
5
FEs


ts1e7r0b/symmetric/burma14−20
Performance
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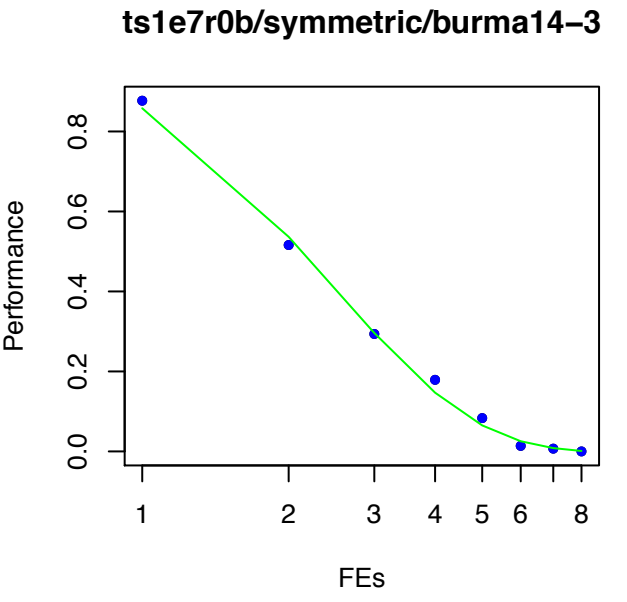
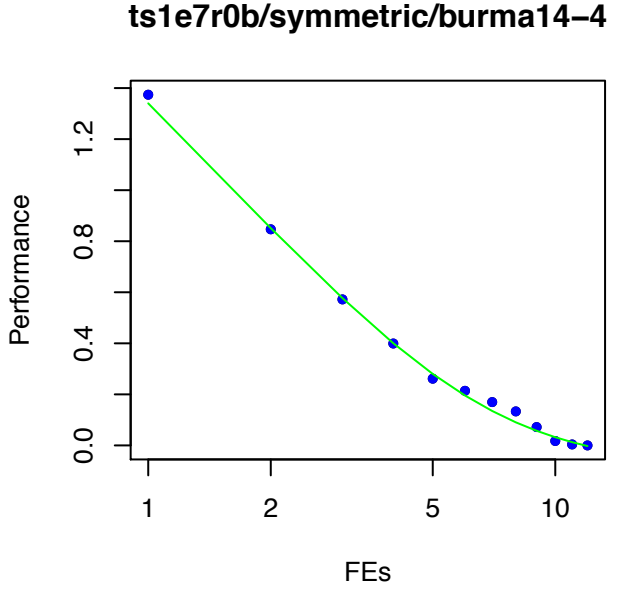
0.4
0.6
0.8
1.0
1
2
5
FEs


ts1e7r0b/symmetric/burma14−3
Performance
0.0
0.2
0.4
0.6
0.8
1
2
3
4
5
6
8
FEs


ts1e7r0b/symmetric/burma14−4
Performance
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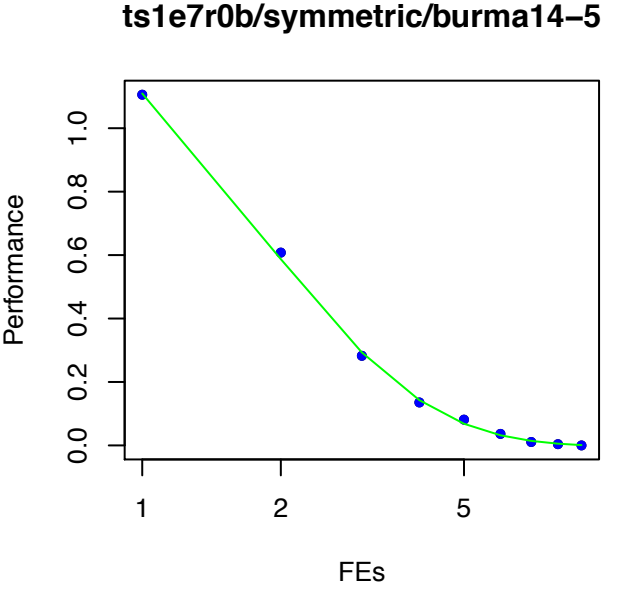
0.4
0.8
1.2
1
2
5
10
FEs


ts1e7r0b/symmetric/burma14−5
Performance
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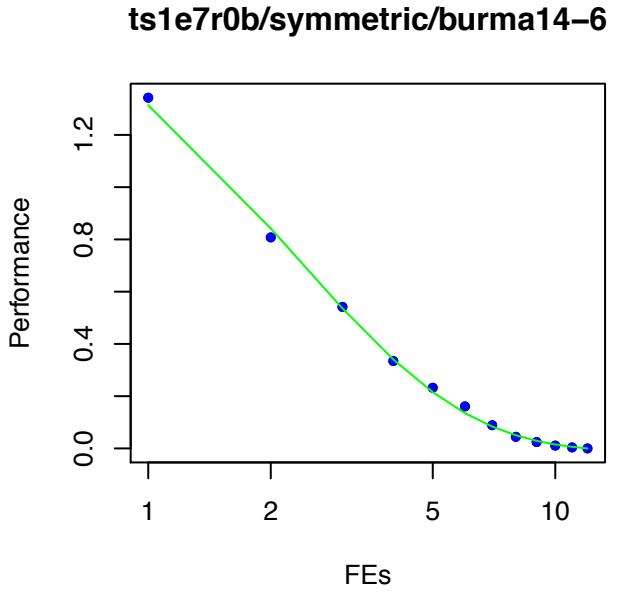
0.4
0.6
0.8
1.0
1
2
5
FEs


ts1e7r0b/symmetric/burma14−6
Performance
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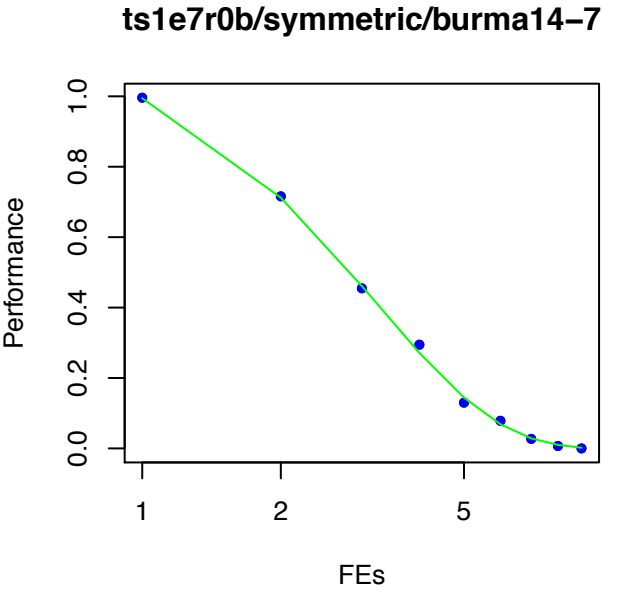
0.8
1.2
1
2
5
10
FEs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Performance
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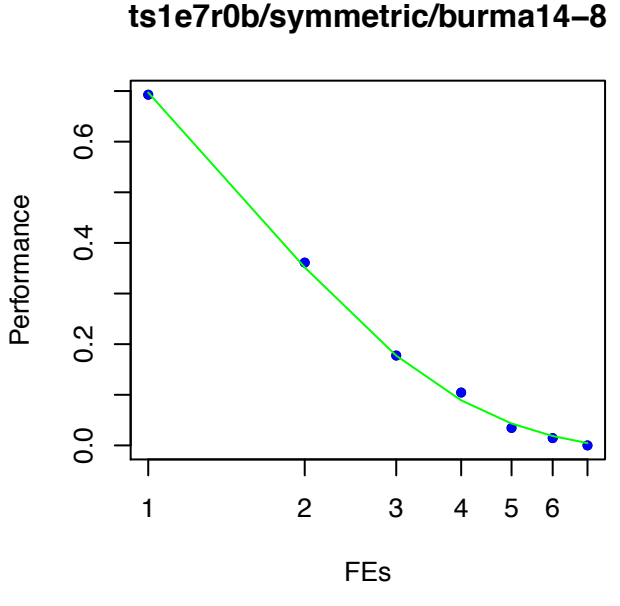
0.4
0.6
0.8
1.0
1
2
5
FEs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Performance
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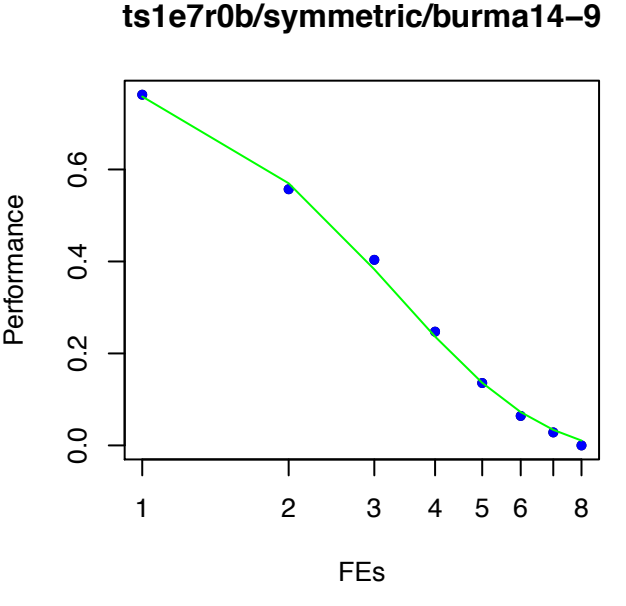
0.4
0.6
1
2
3
4
5
6
FEs


ts1e7r0b/symmetric/burma14−9
Performance
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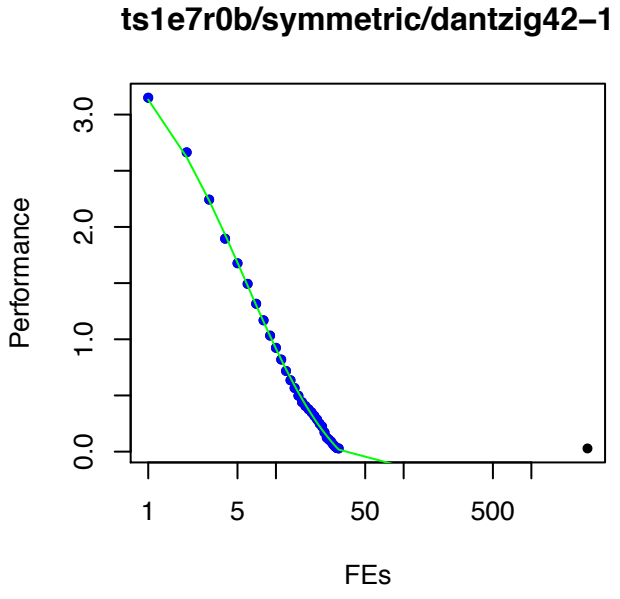
0.4
0.6
1
2
3
4
5
6
8
FEs


ts1e7r0b/symmetric/dantzig42−1
Performance
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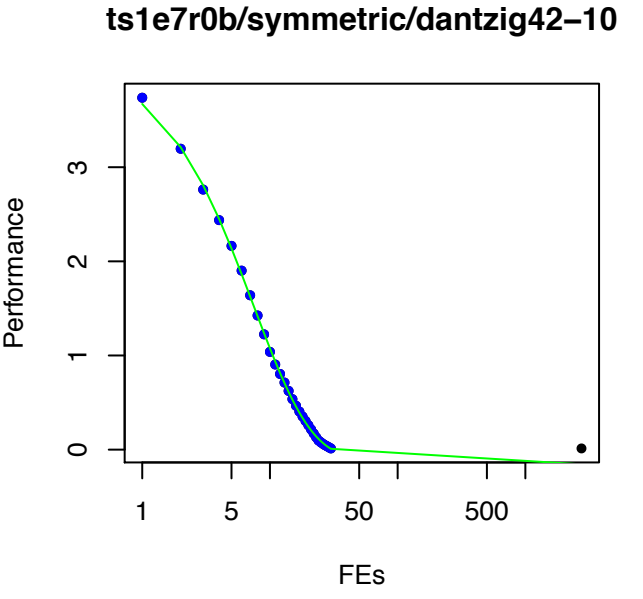
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/dantzig42−10
Performance
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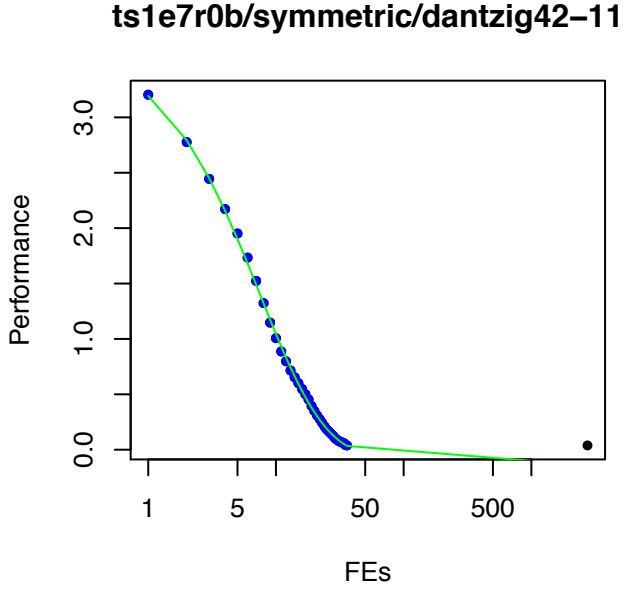
2
3
1
5
50
500
FEs


ts1e7r0b/symmetric/dantzig42−11
Performance
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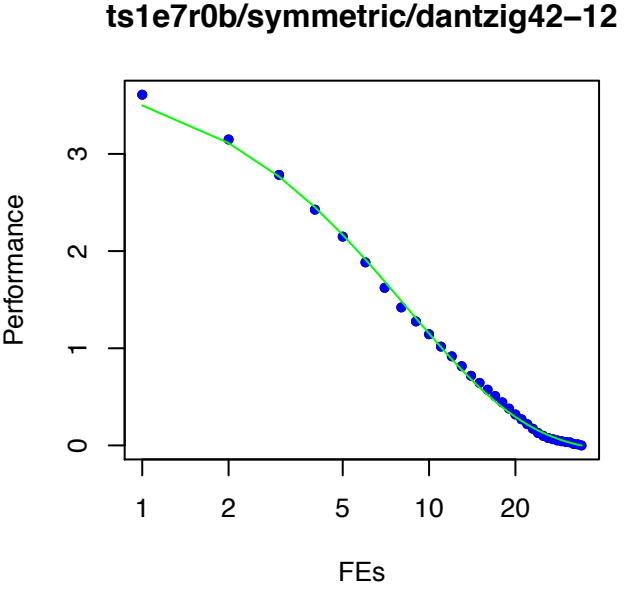
2.0
3.0
1
5
50
500
FEs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Performance
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2
3
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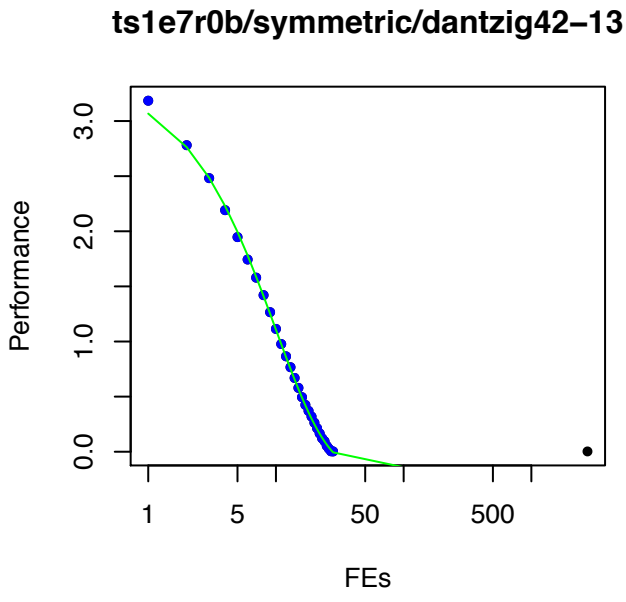
2
5
10
20
FEs


ts1e7r0b/symmetric/dantzig42−13
Performance
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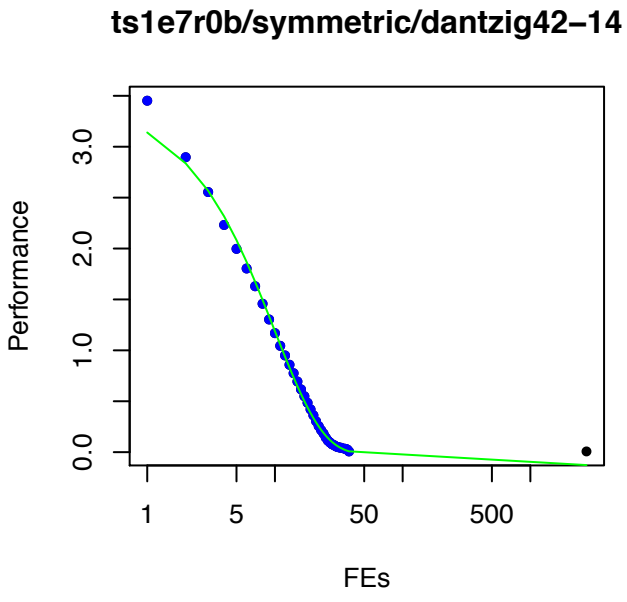
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/dantzig42−14
Performance
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2.0
3.0
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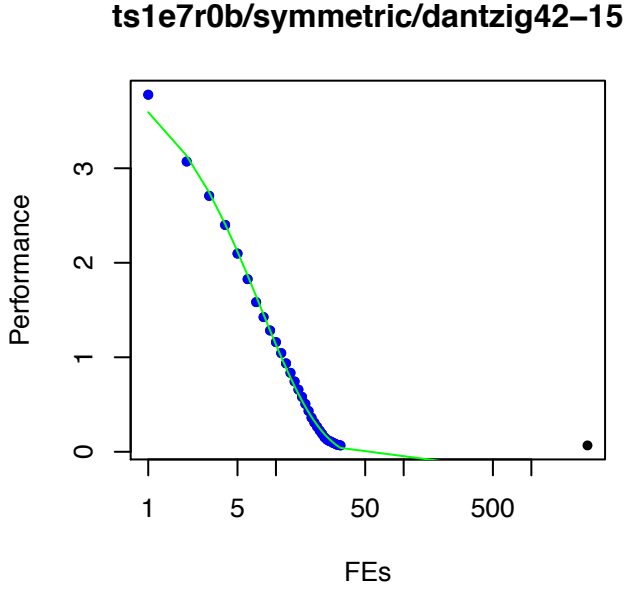
500
FEs


ts1e7r0b/symmetric/dantzig42−15
Performance
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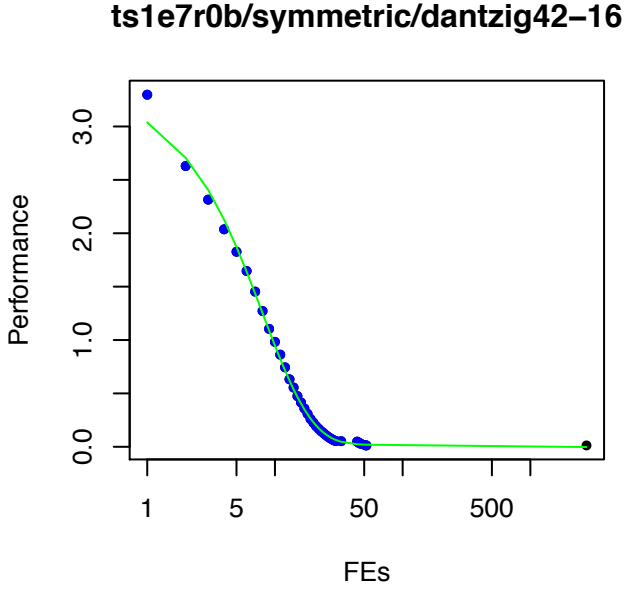
2
3
1
5
50
500
FEs


ts1e7r0b/symmetric/dantzig42−16
Performance
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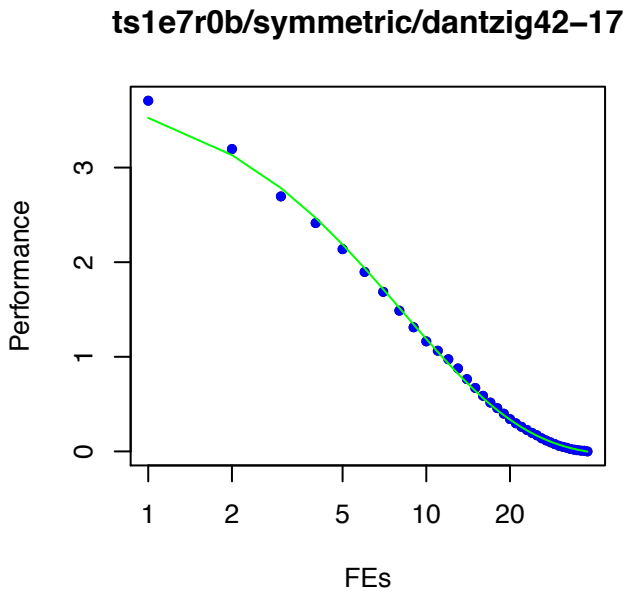
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/dantzig42−17
Performance
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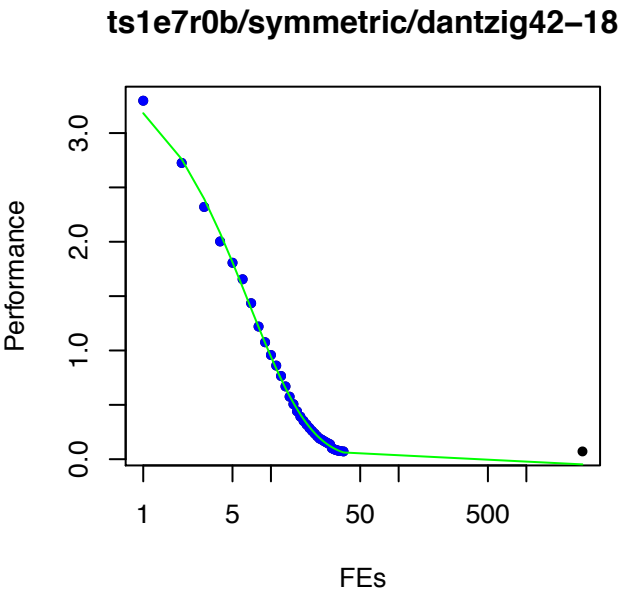
3
1
2
5
10
20
FEs


ts1e7r0b/symmetric/dantzig42−18
Performance
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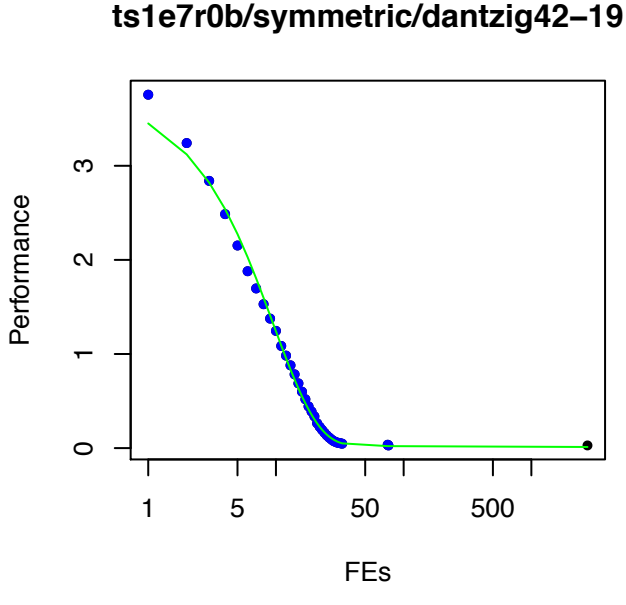
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/dantzig42−19
Performance
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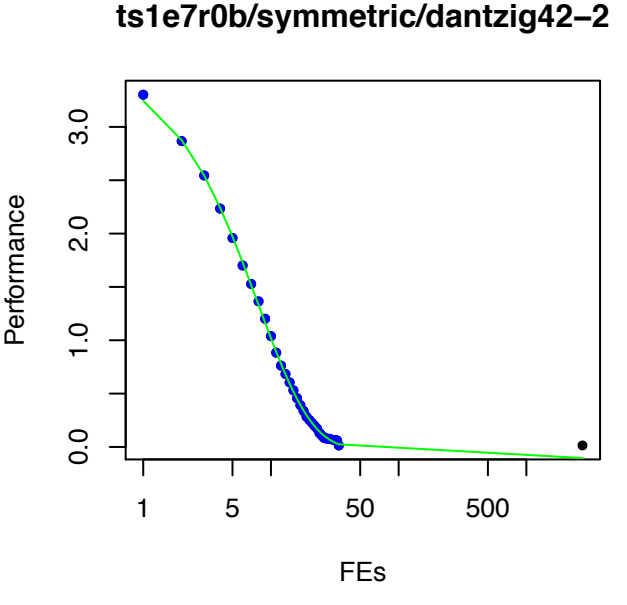
2
3
1
5
50
500
FEs


ts1e7r0b/symmetric/dantzig42−2
Performance
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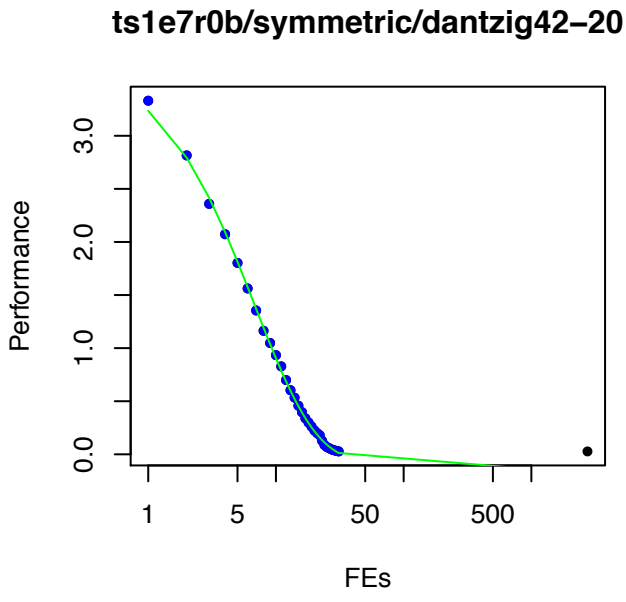
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/dantzig42−20
Performance
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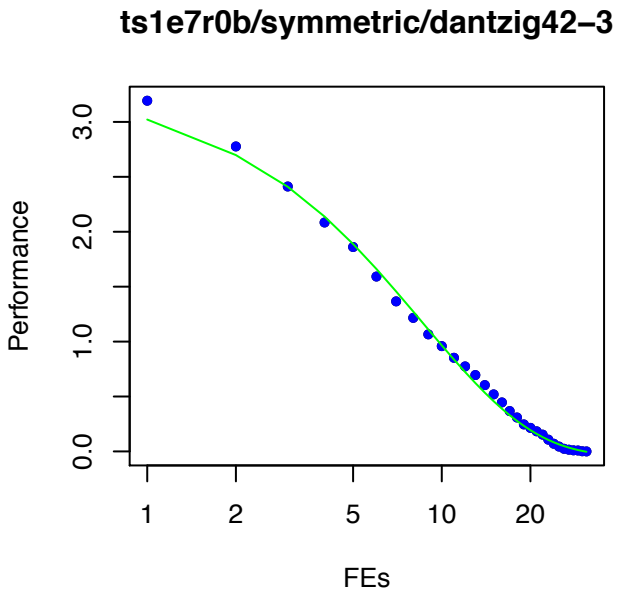
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/dantzig42−3
Performance
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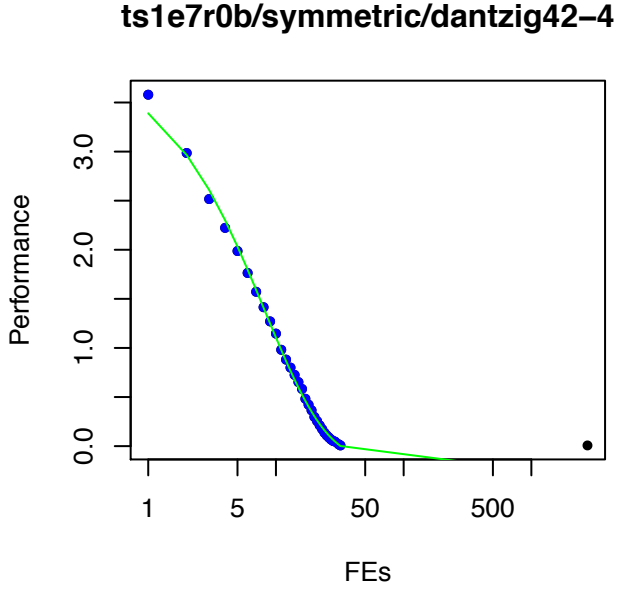
1.0
2.0
3.0
1
2
5
10
20
FEs


ts1e7r0b/symmetric/dantzig42−4
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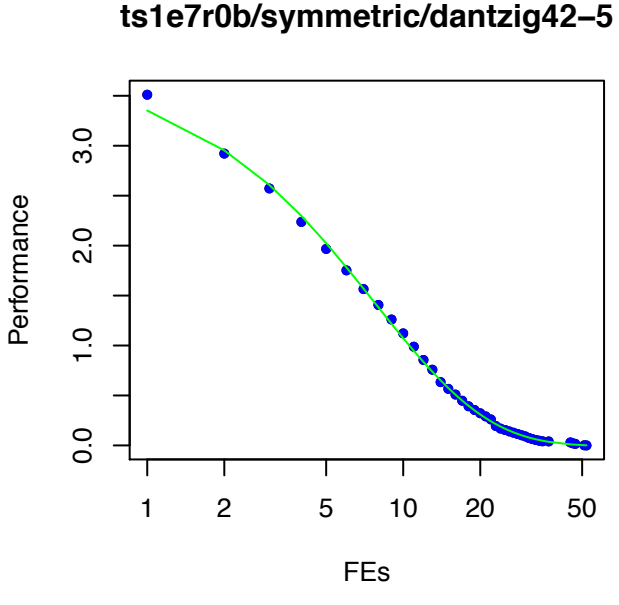
ts1e7r0b/symmetric/dantzig42−5
Performance
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10
20
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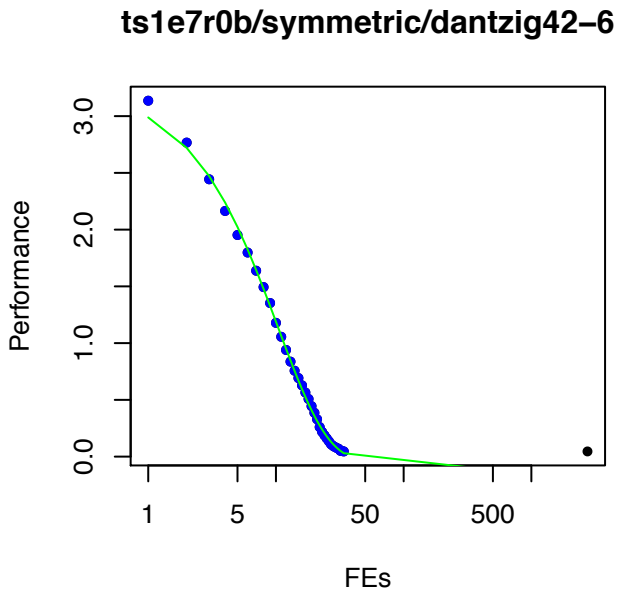
FEs


ts1e7r0b/symmetric/dantzig42−6
Performance
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5
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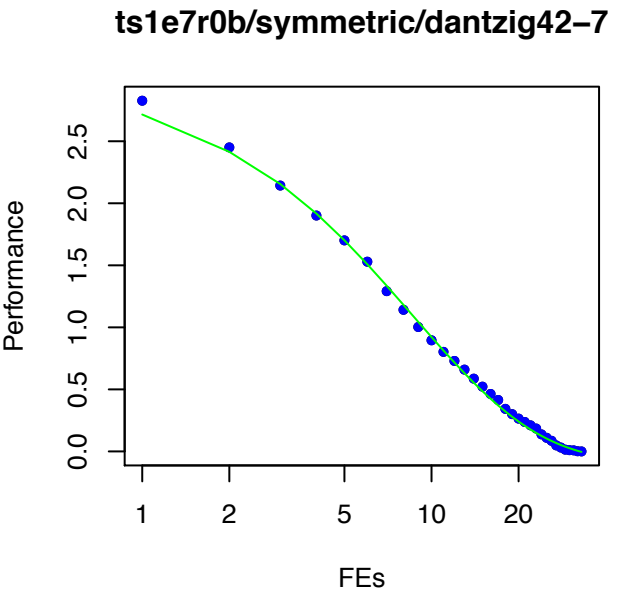
500
FEs


ts1e7r0b/symmetric/dantzig42−7
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1.5
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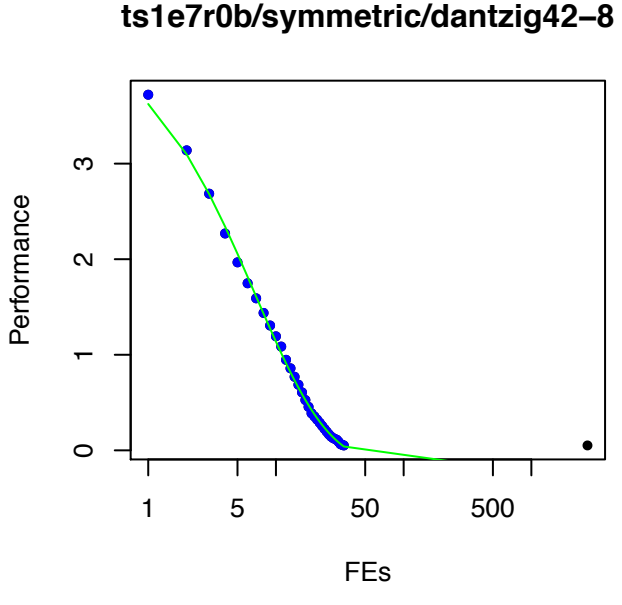
2.5
1
2
5
10
20
FEs


ts1e7r0b/symmetric/dantzig42−8
Performance
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5
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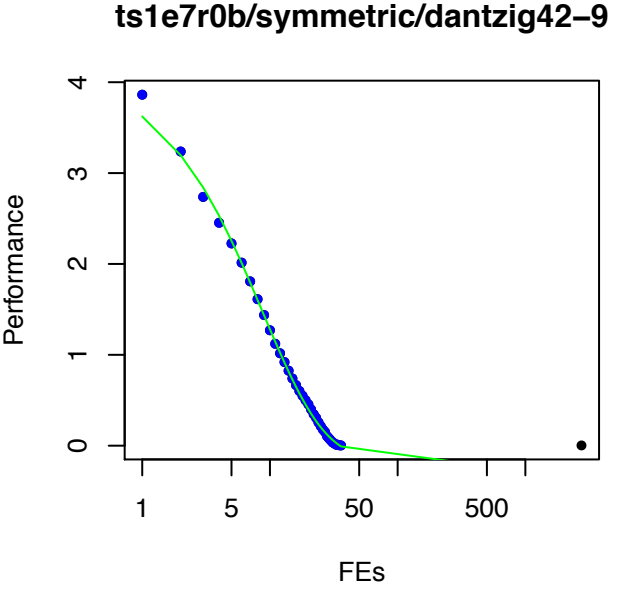
500
FEs


ts1e7r0b/symmetric/dantzig42−9
Performance
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3
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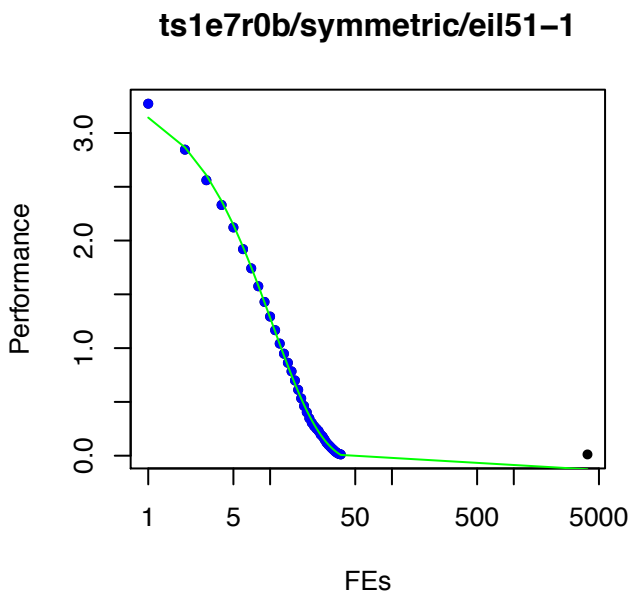
500
FEs


ts1e7r0b/symmetric/eil51−1
Performance
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3.0
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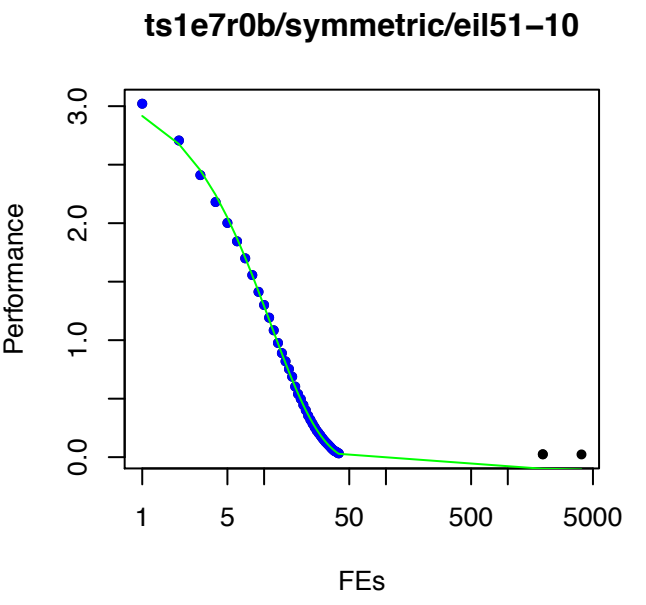
5000
FEs


ts1e7r0b/symmetric/eil51−10
Performance
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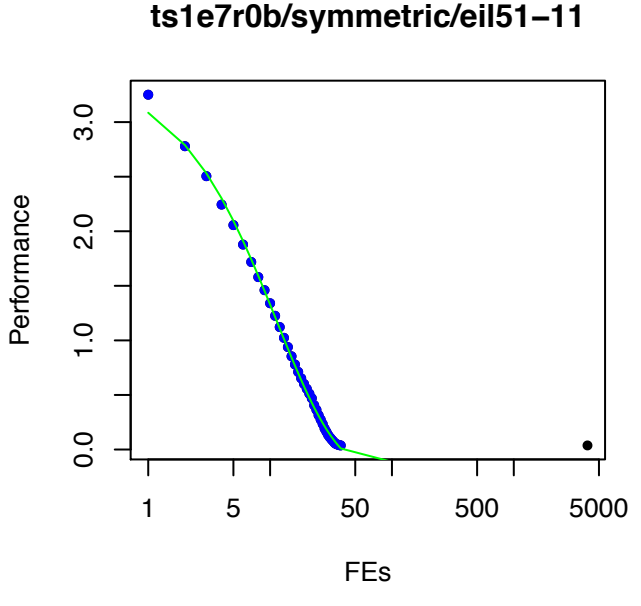
5000
FEs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Performance
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5
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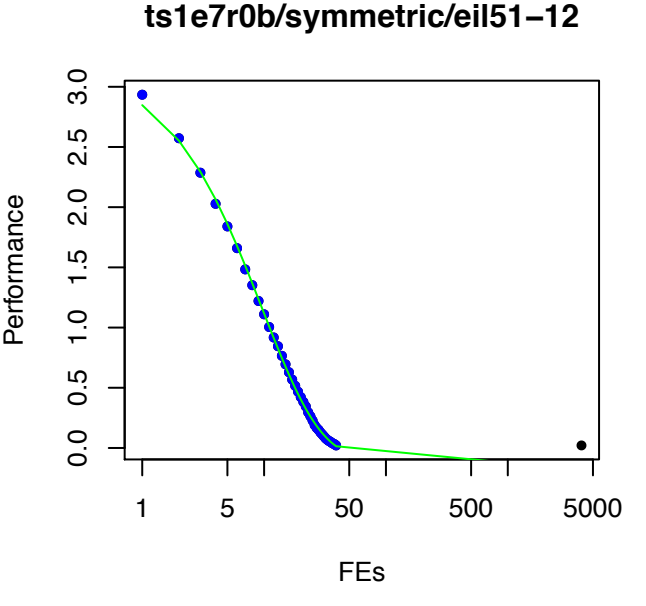
5000
FEs


ts1e7r0b/symmetric/eil51−12
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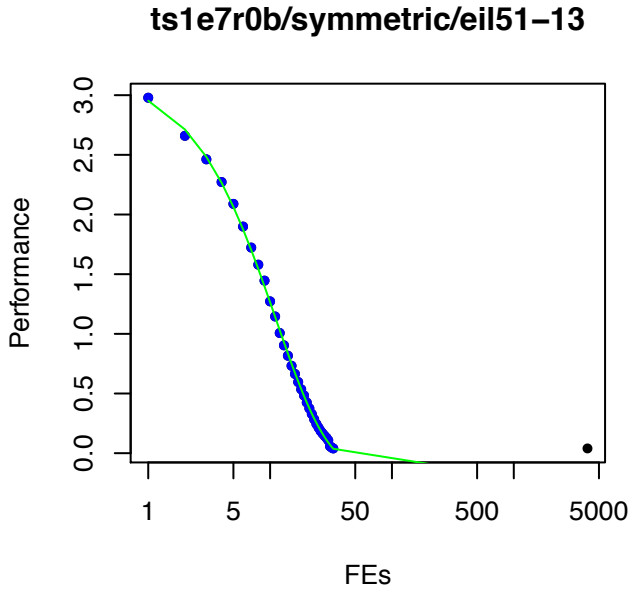
50
500
5000
FEs


ts1e7r0b/symmetric/eil51−13
Performance
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1.0
1.5
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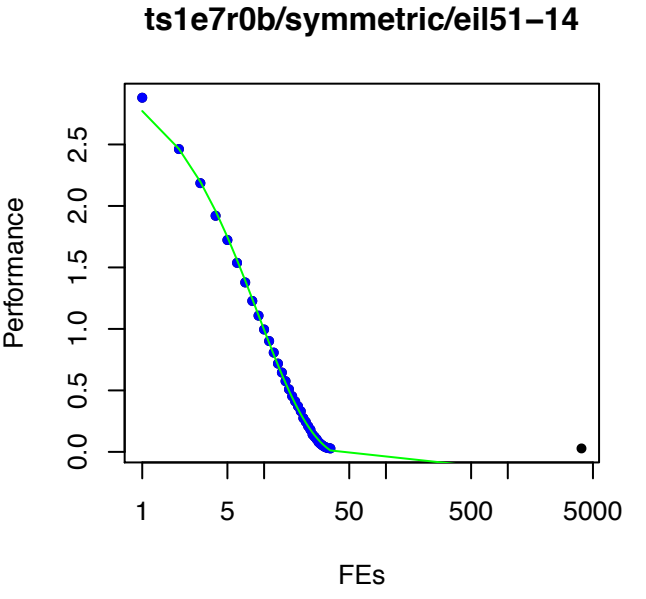
2.5
3.0
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/eil51−14
Performance
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1.5
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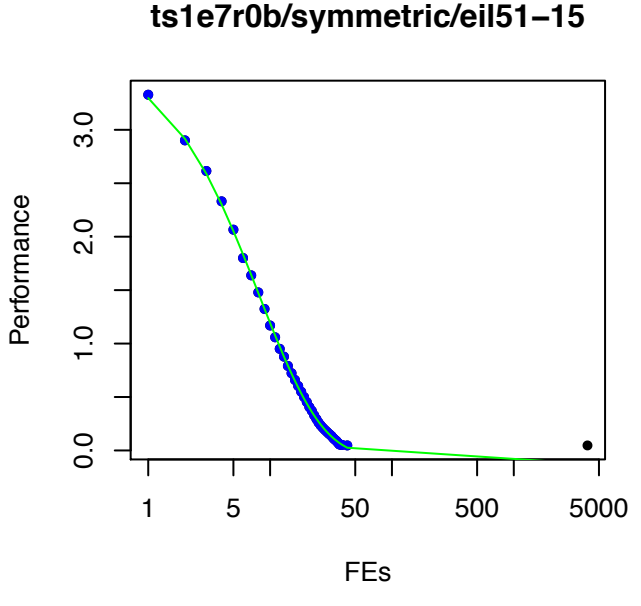
2.5
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/eil51−15
Performance
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3.0
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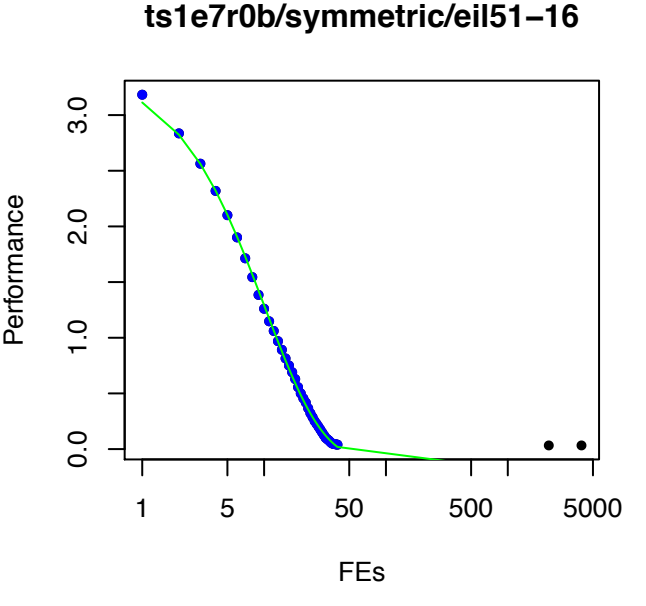
5
50
500
5000
FEs


ts1e7r0b/symmetric/eil51−16
Performance
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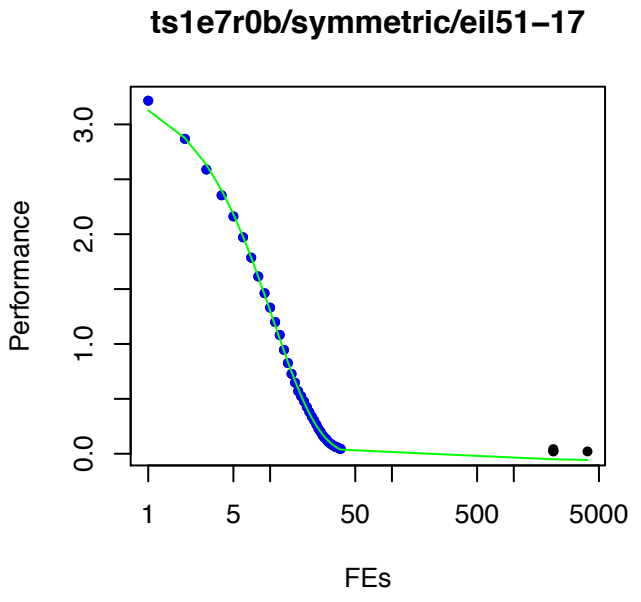
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/eil51−17
Performance
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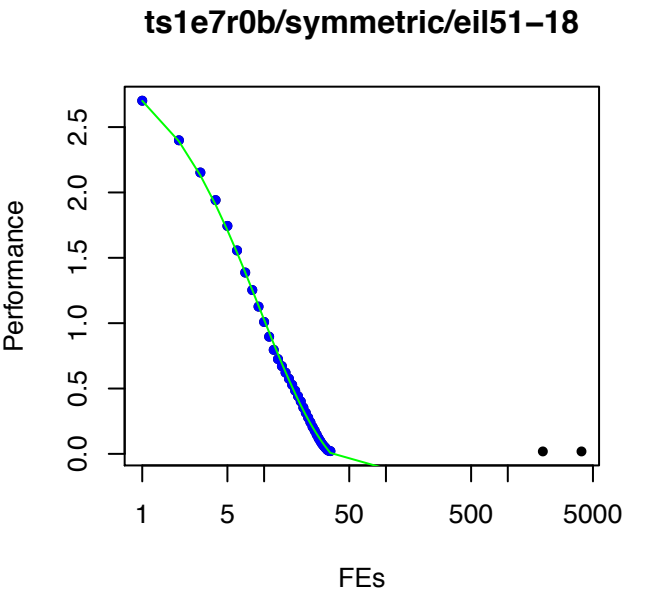
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/eil51−18
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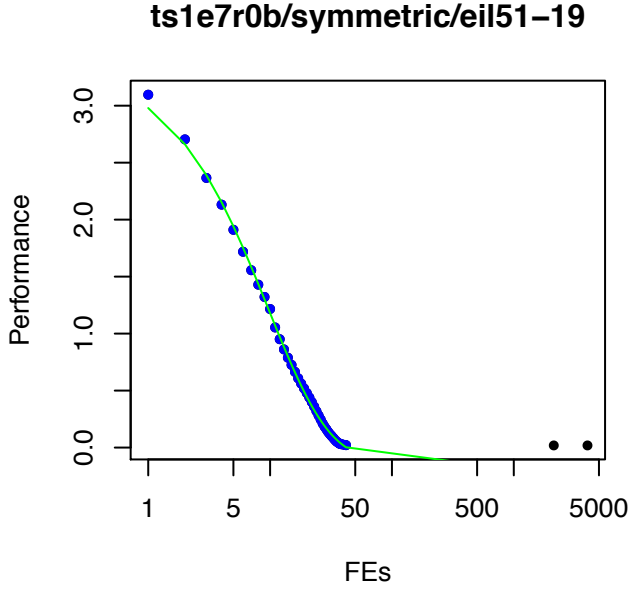
2.0
2.5
1
5
50
500
5000
FEs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Performance
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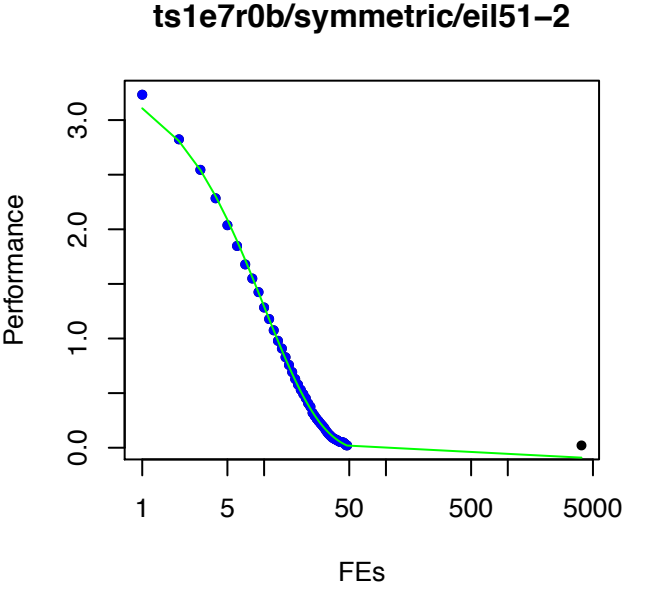
5
50
500
5000
FEs


ts1e7r0b/symmetric/eil51−2
Performance
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3.0
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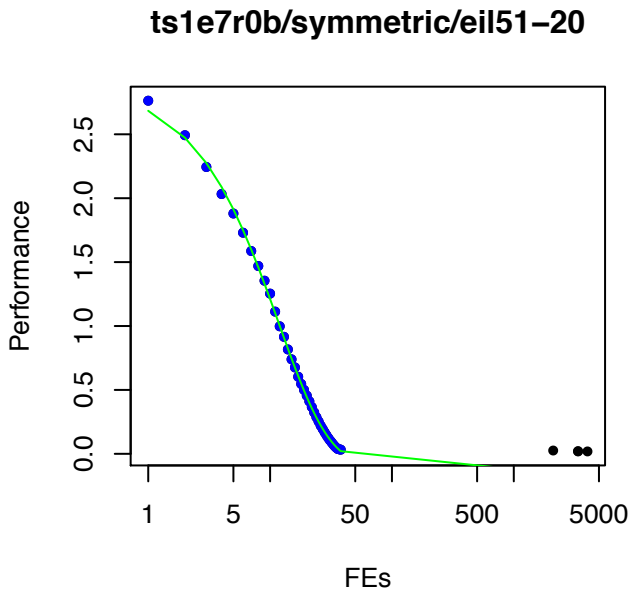
5
50
500
5000
FEs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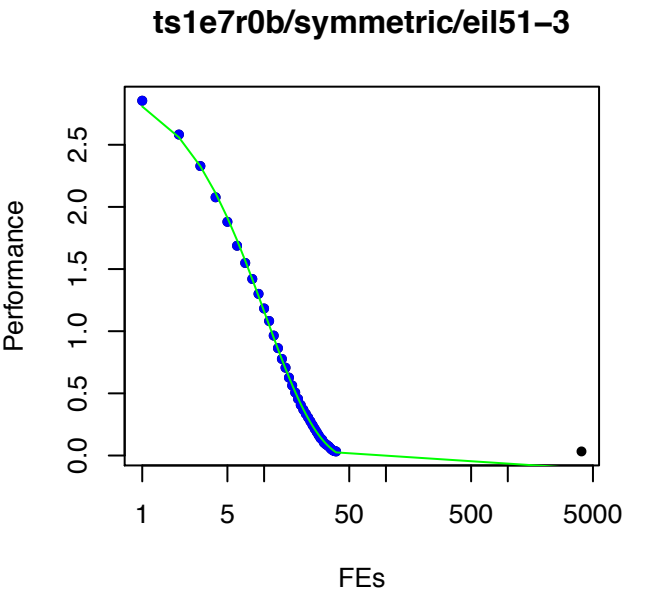
5000
FEs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Performance
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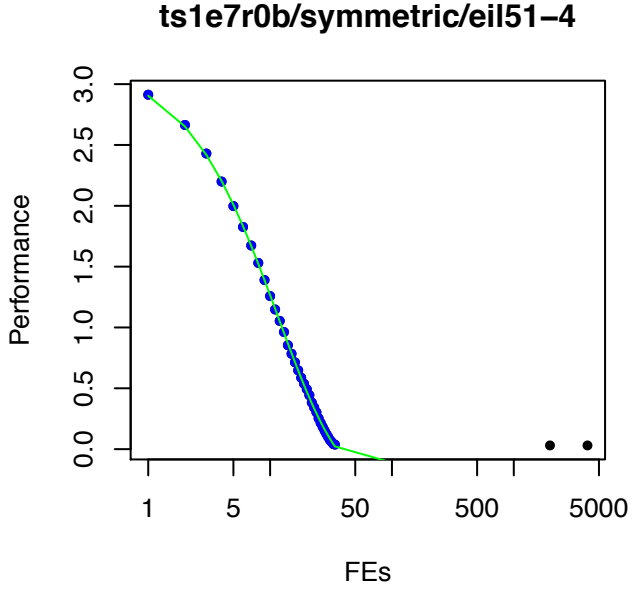
2.5
1
5
50
500
5000
FEs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3.0
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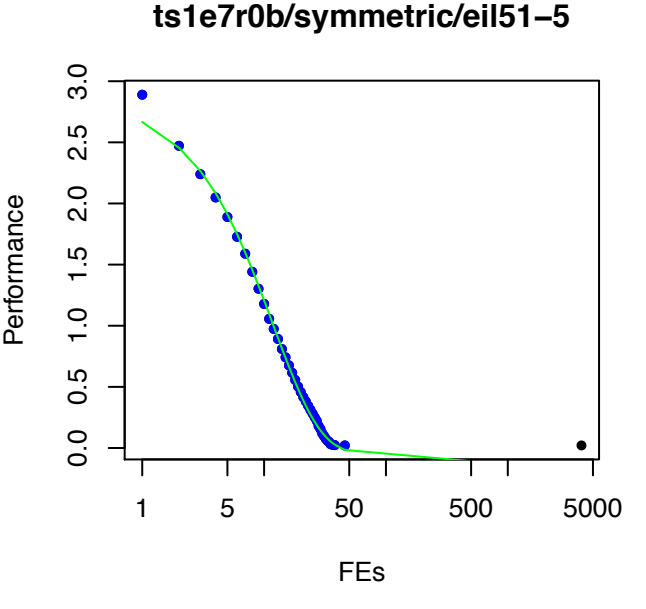
500
5000
FEs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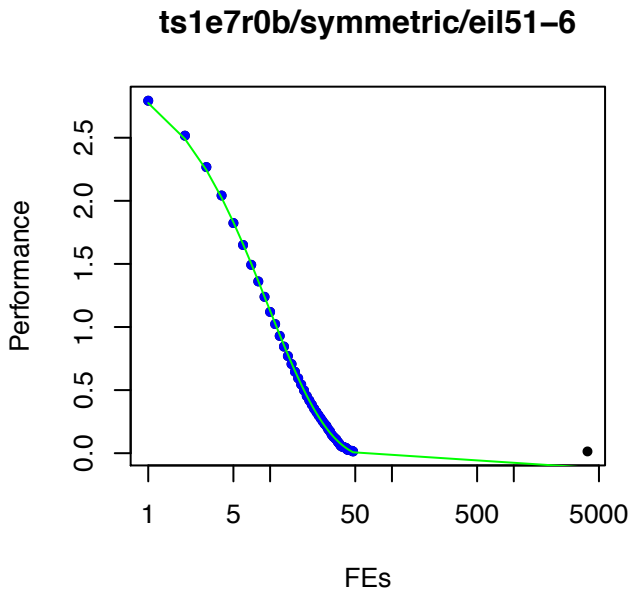
5000
FEs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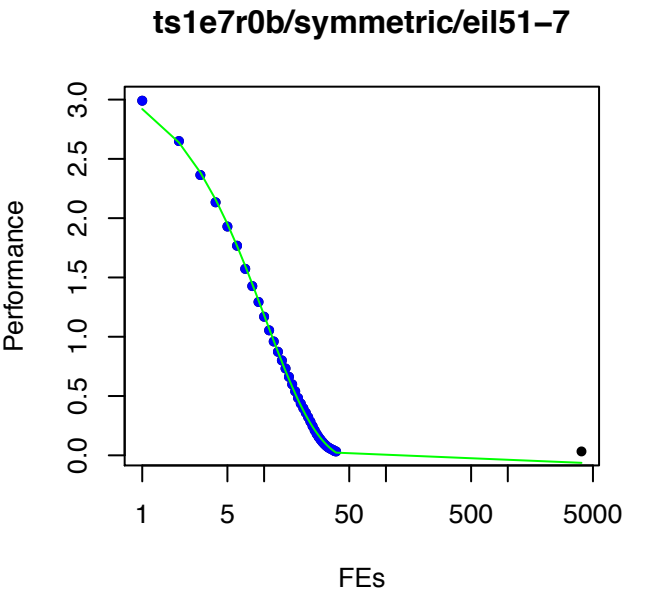
5000
FEs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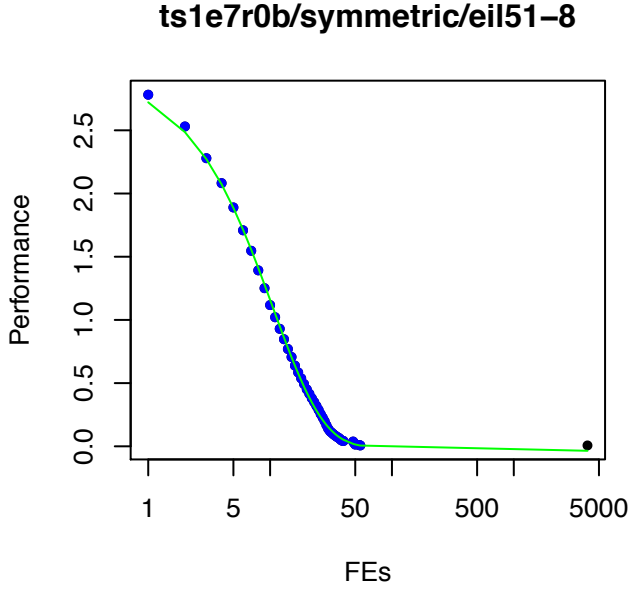
FEs


ts1e7r0b/symmetric/eil51−8
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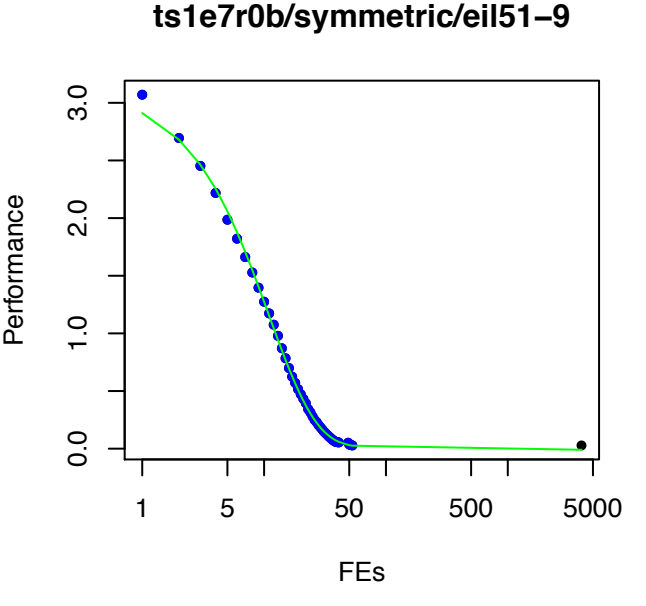
FEs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Performance
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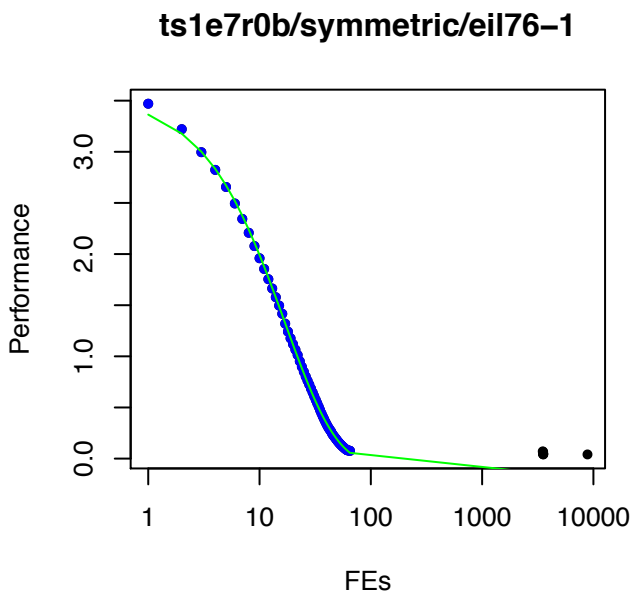
FEs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Performance
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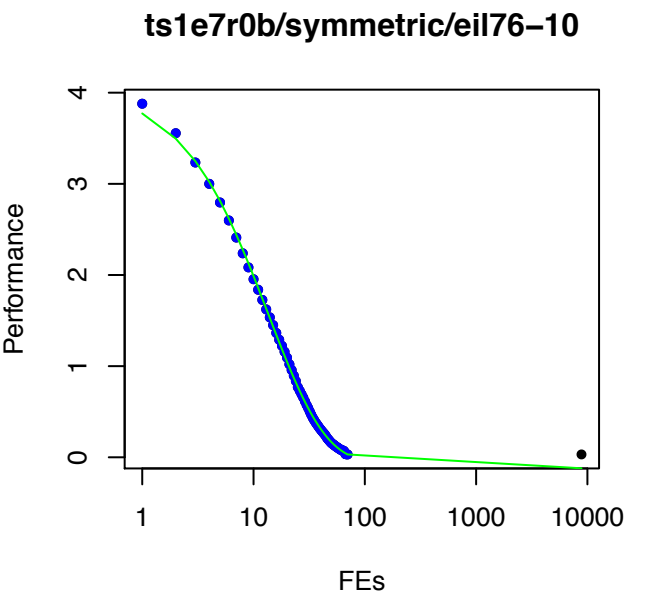
1000
10000
FEs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Performance
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3
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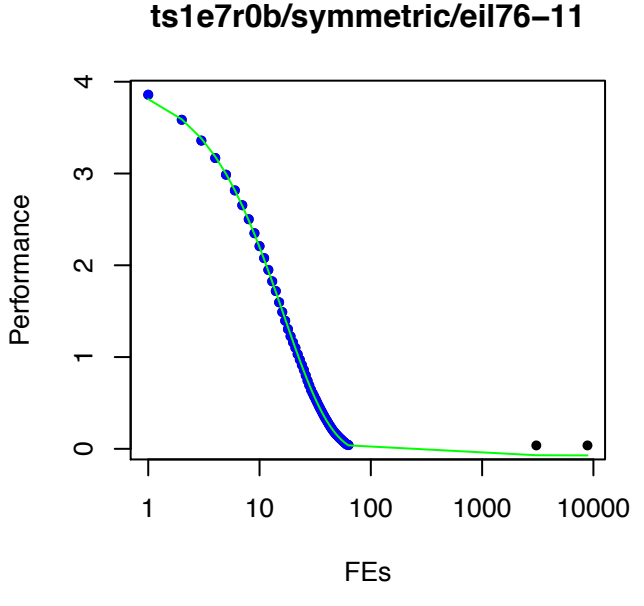
10000
FEs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Performance
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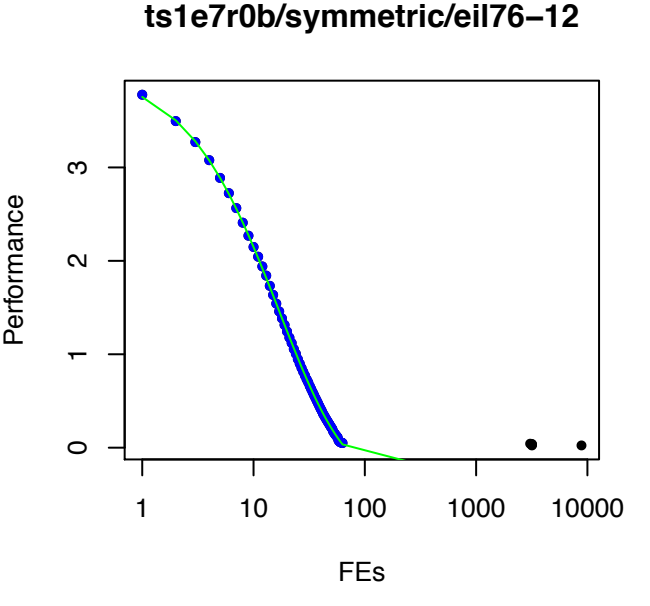
FEs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Performance
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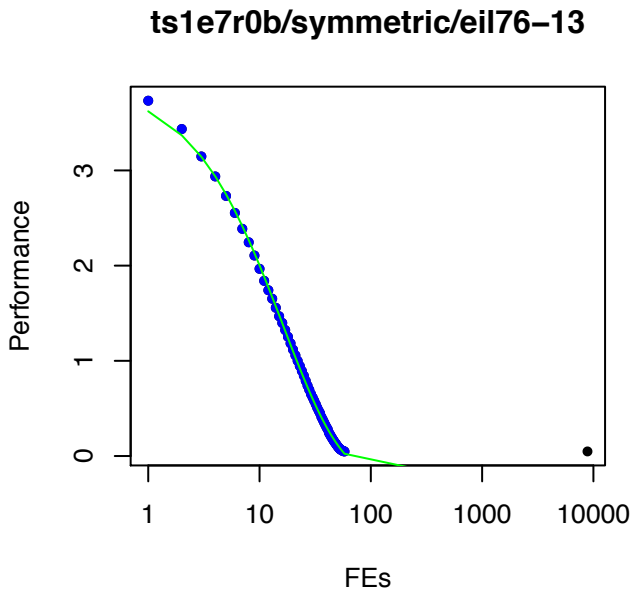
FEs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Performance
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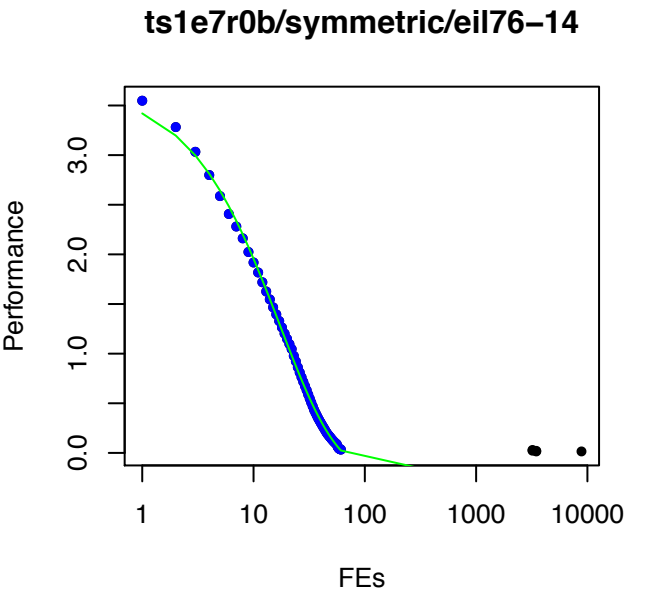
FEs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Performance
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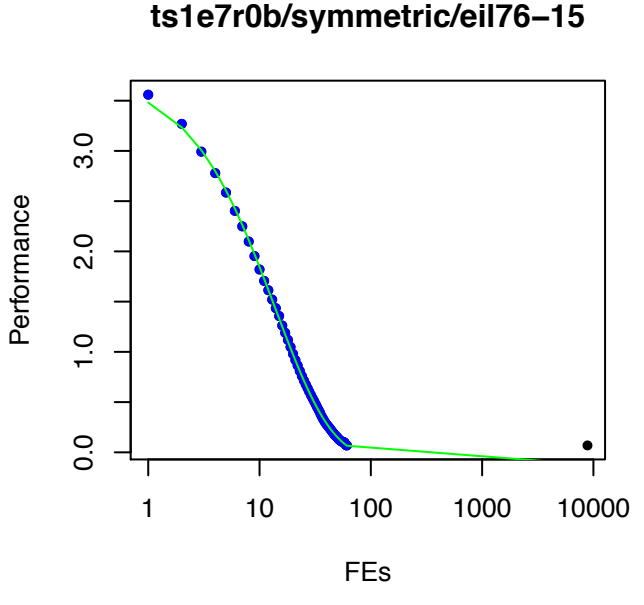
FEs


ts1e7r0b/symmetric/eil76−15
Performance
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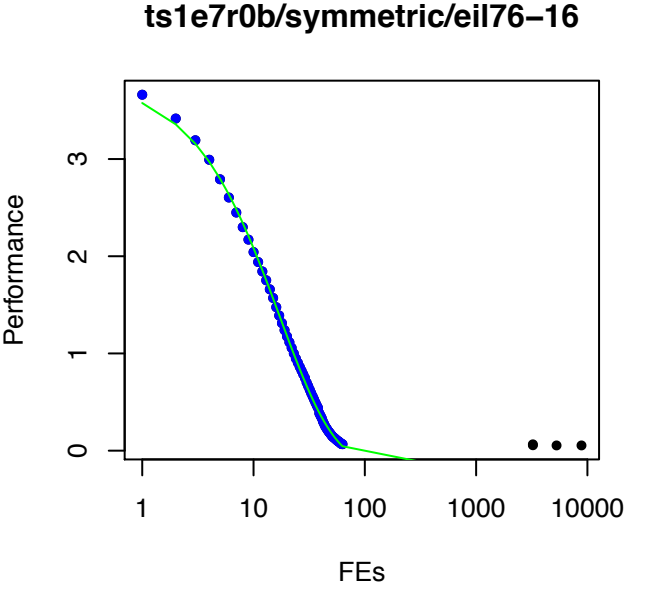
FEs


ts1e7r0b/symmetric/eil76−16
Performance
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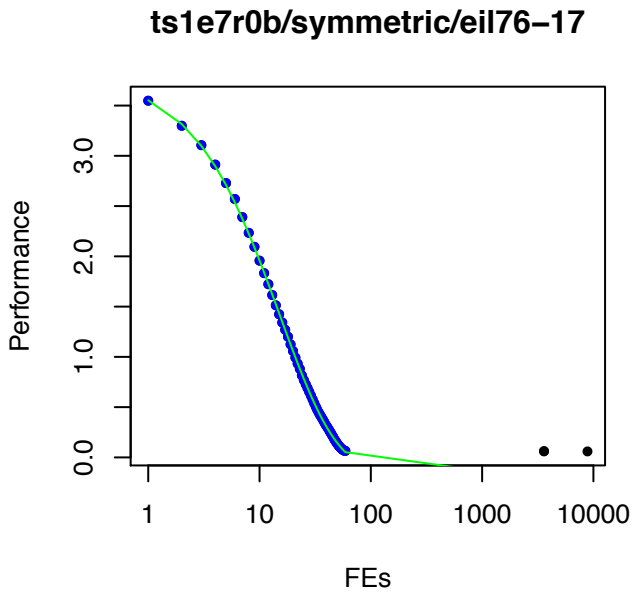
10000
FEs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Performance
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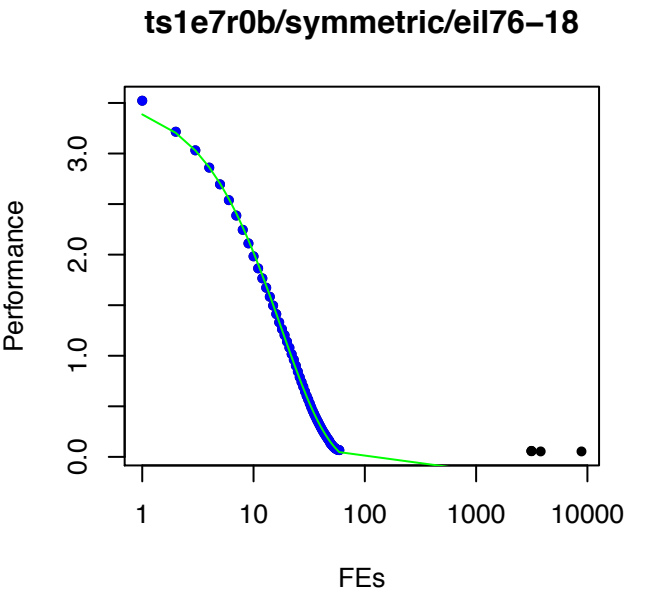
10000
FEs


ts1e7r0b/symmetric/eil76−18
Performance
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1000
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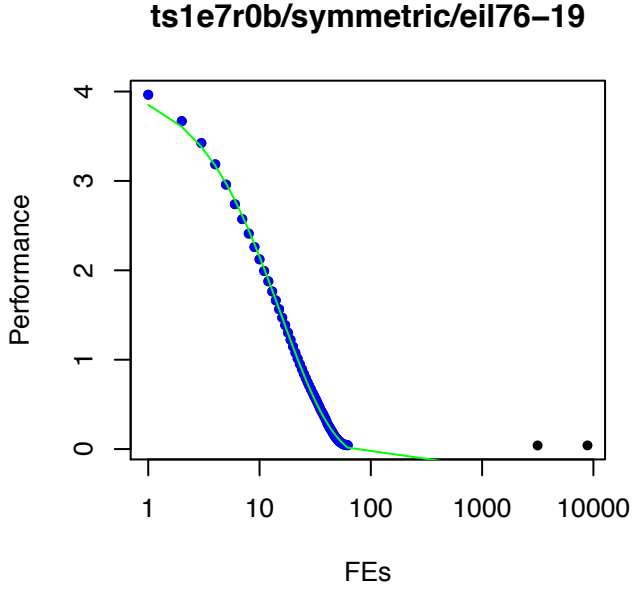
FEs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Performance
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3
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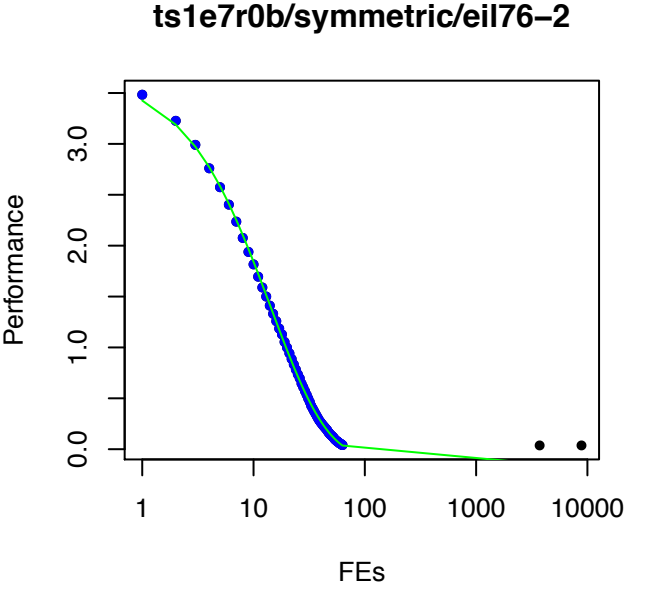
1000
10000
FEs


ts1e7r0b/symmetric/eil76−2
Performance
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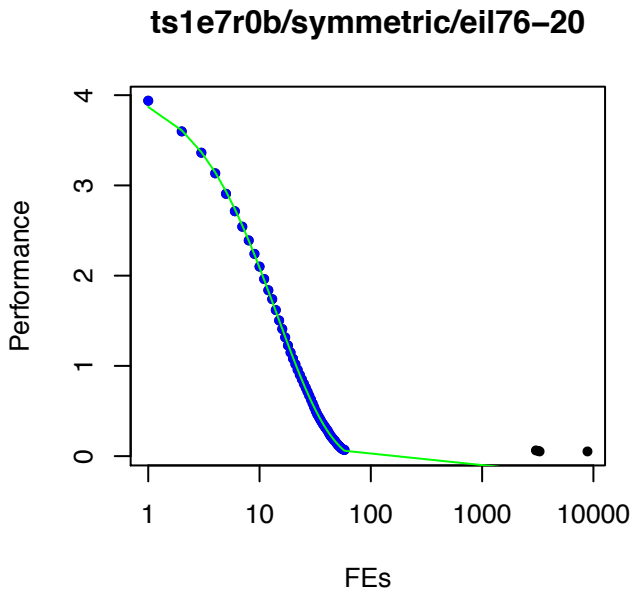
10000
FEs


ts1e7r0b/symmetric/eil76−20
Performance
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3
4
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10
100
1000
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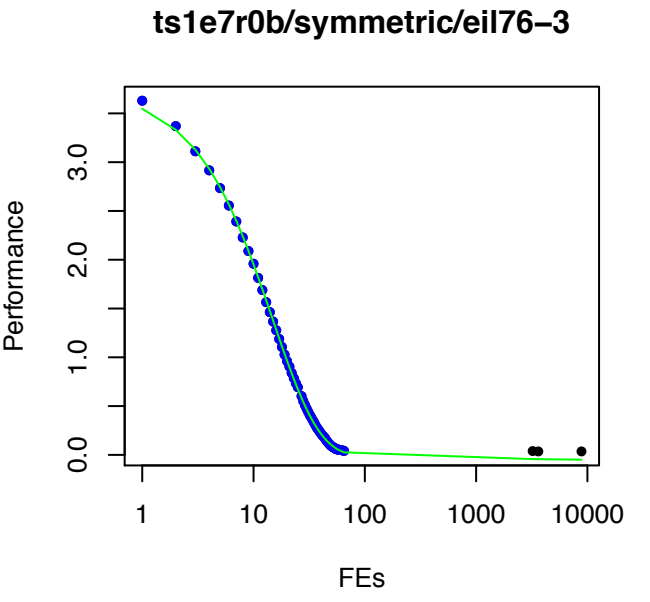
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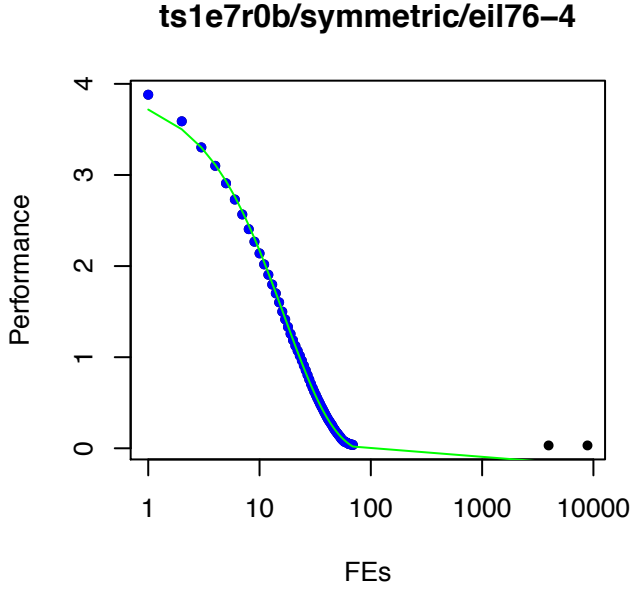
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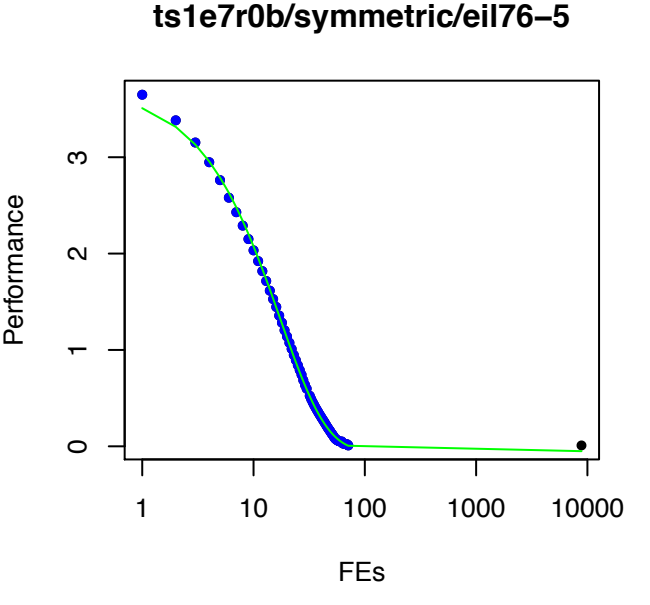
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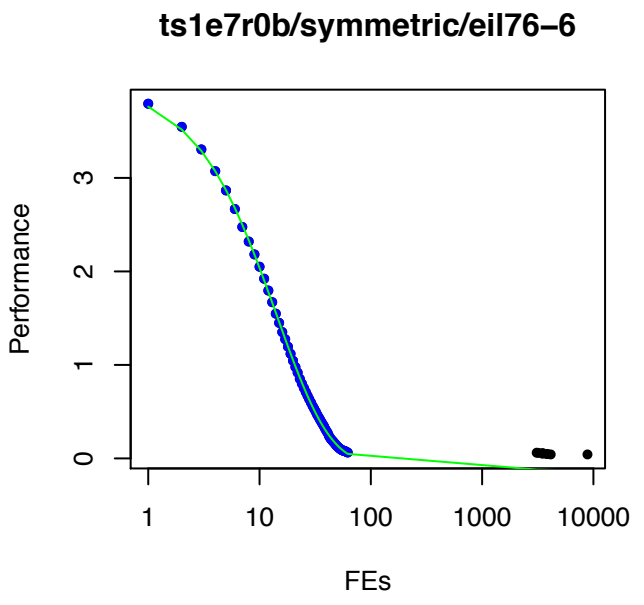
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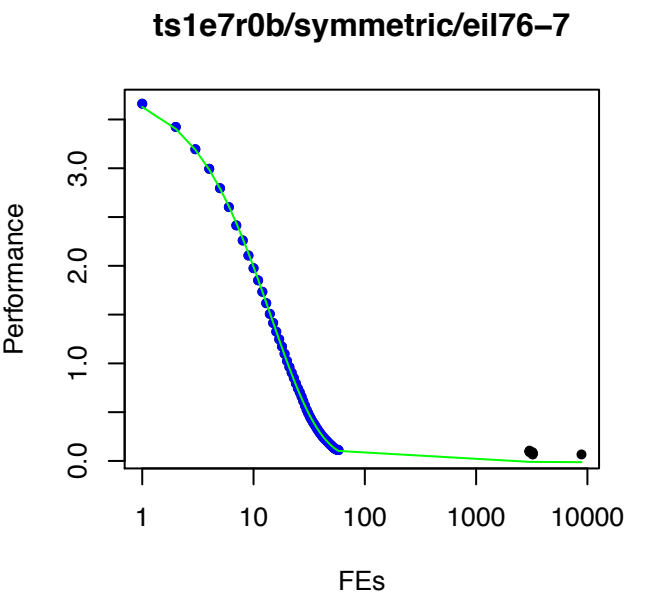
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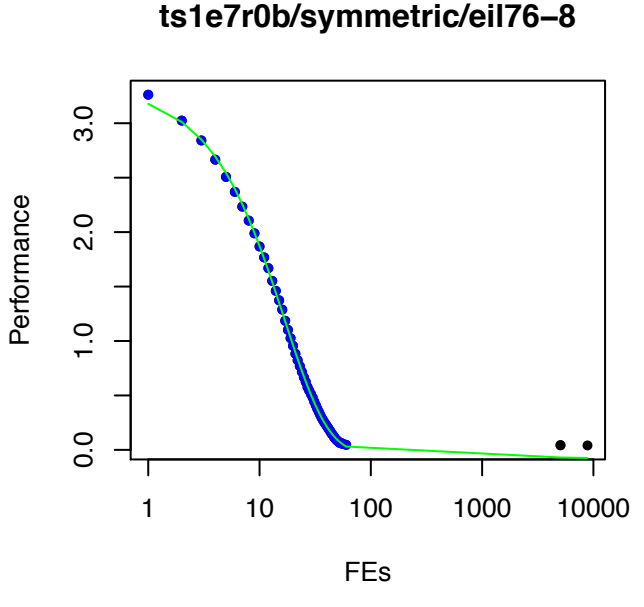
FEs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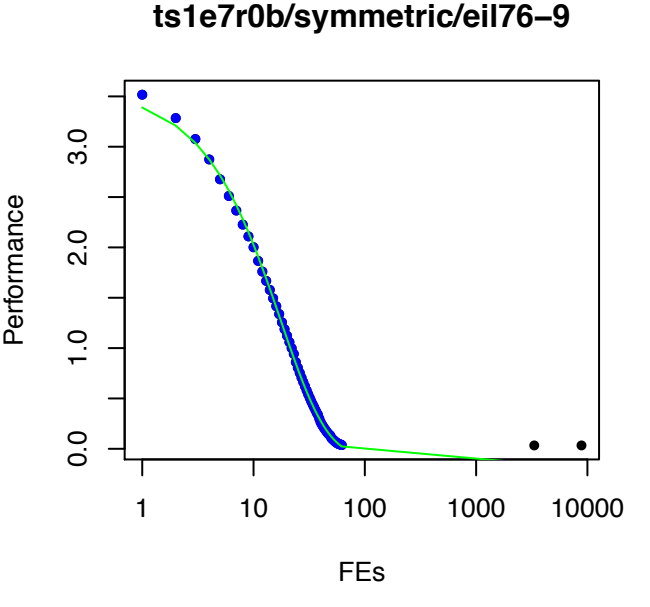
FEs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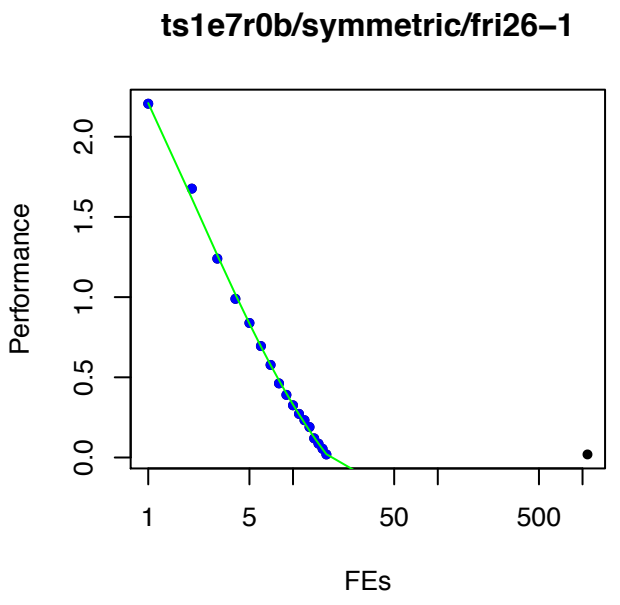
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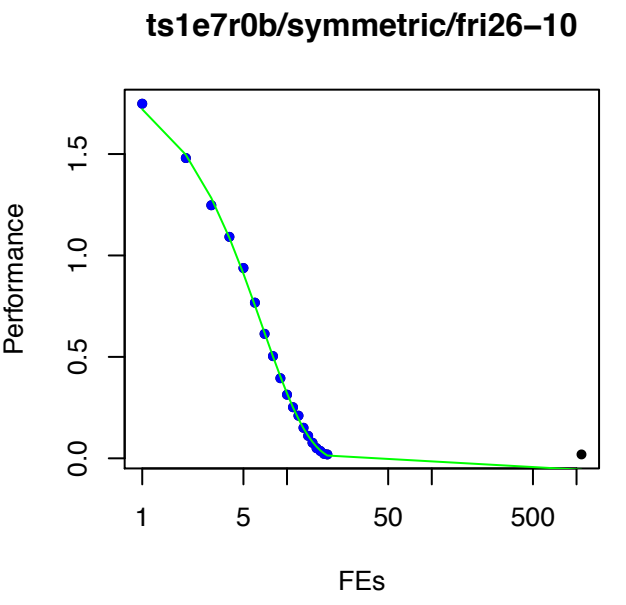
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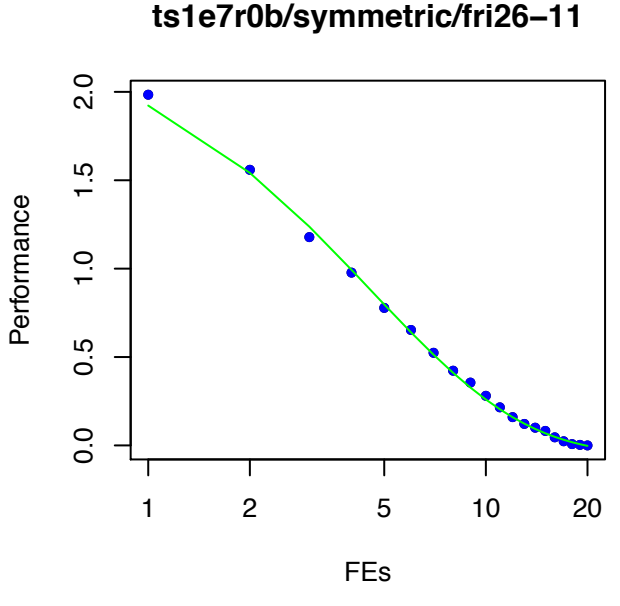
FEs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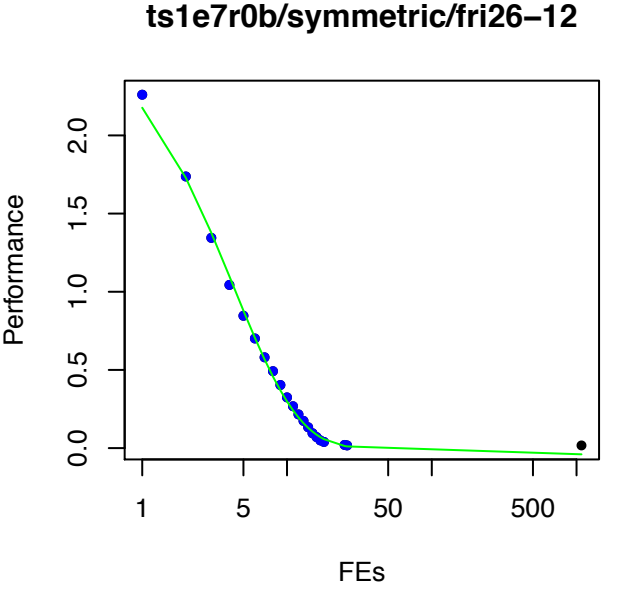
FEs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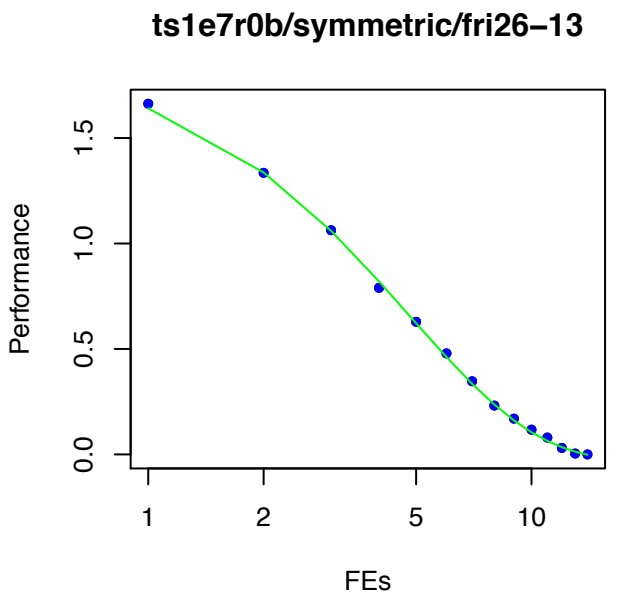
FEs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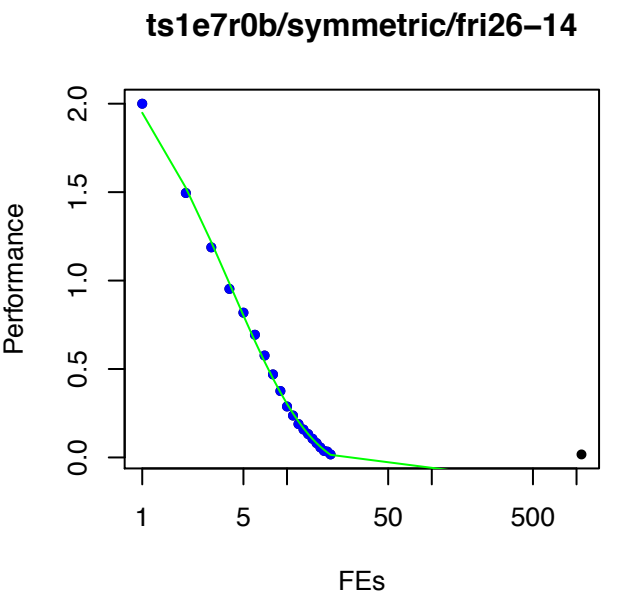
10
FEs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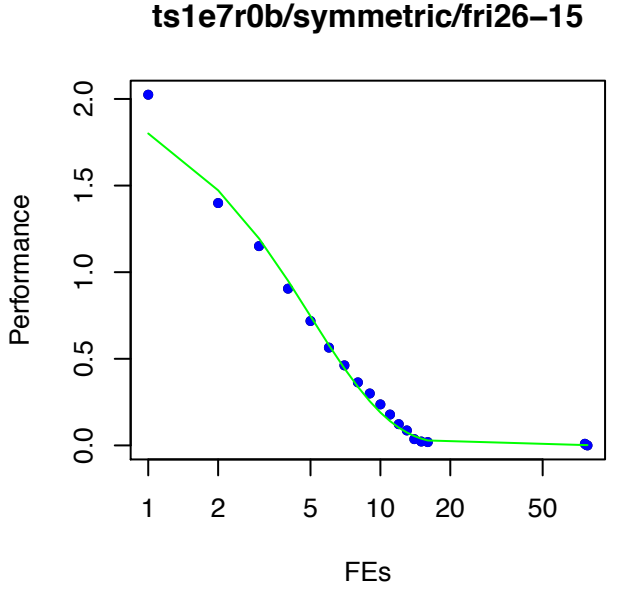
FEs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Performance
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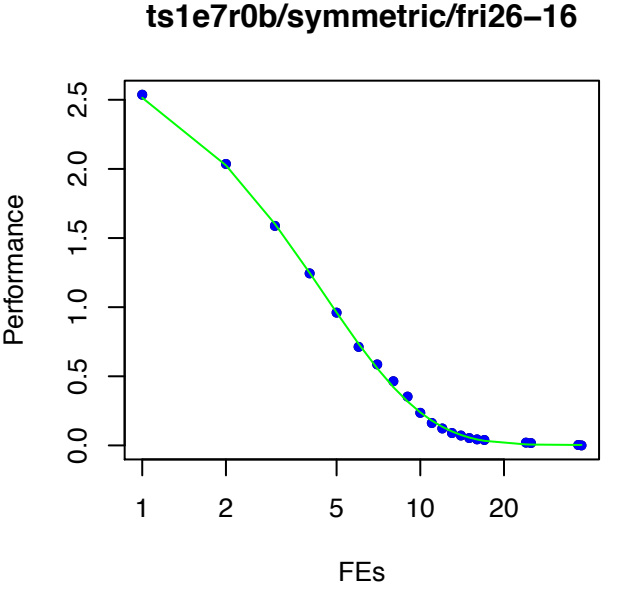
FEs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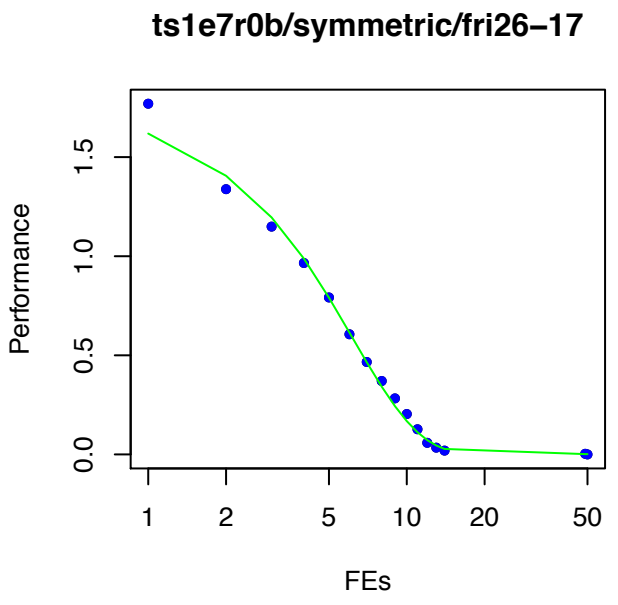
FEs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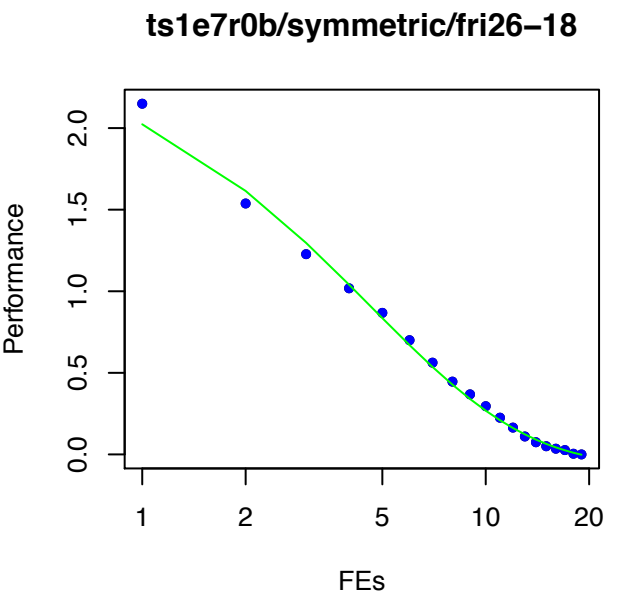
FEs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2
5
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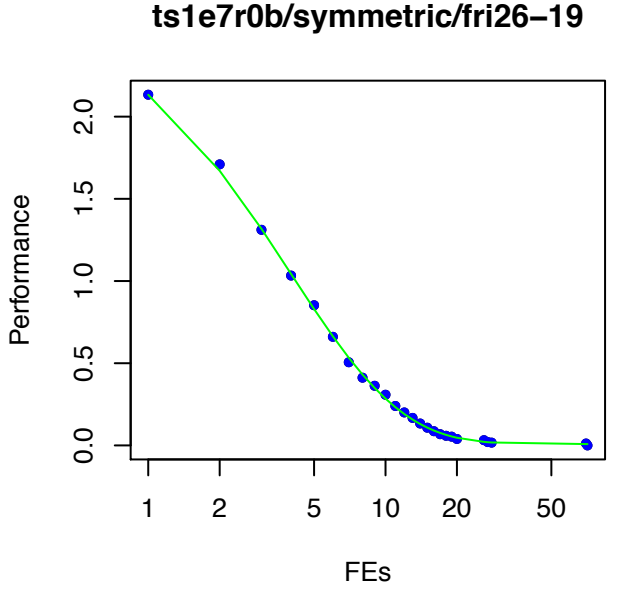
FEs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2
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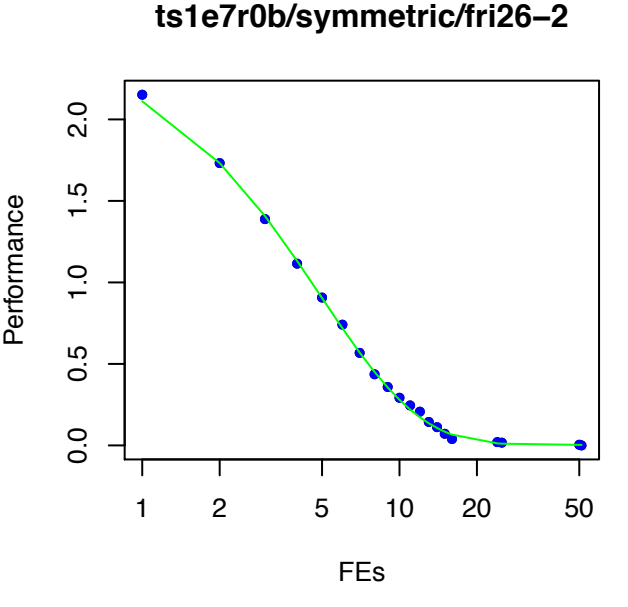
FEs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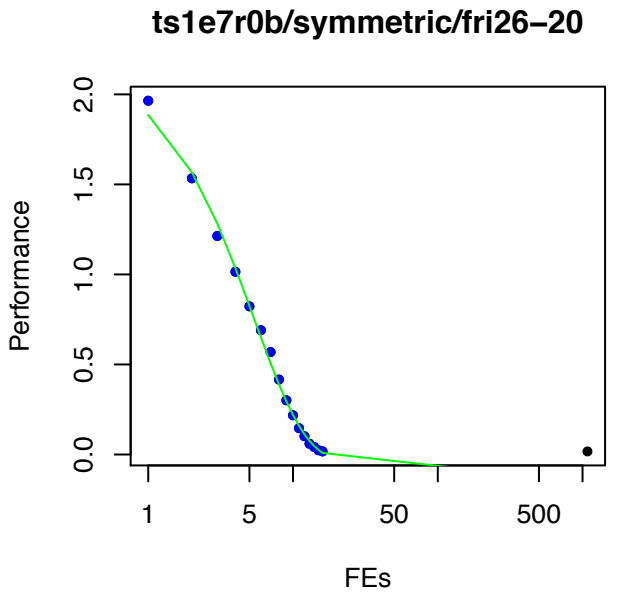
FEs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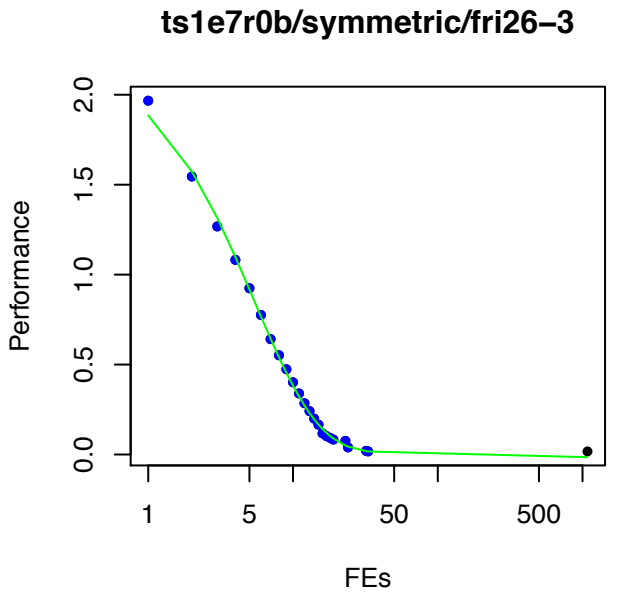
FEs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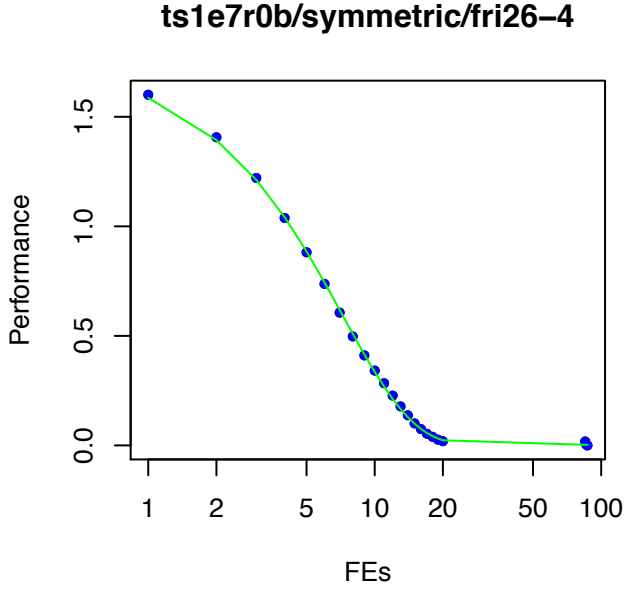
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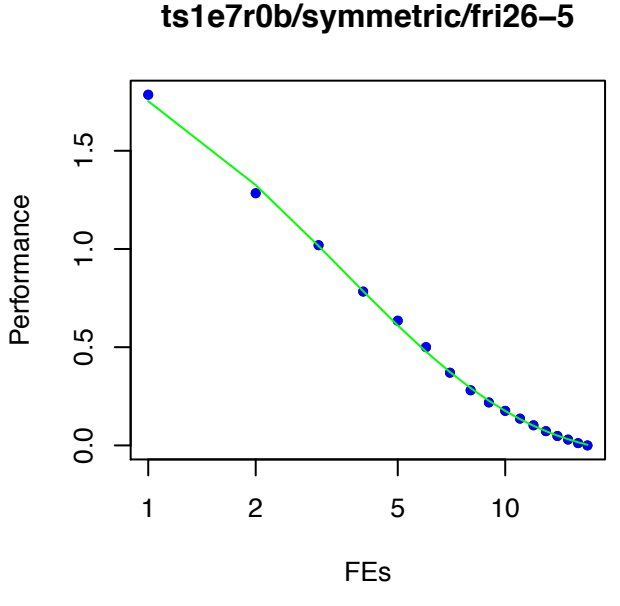
FEs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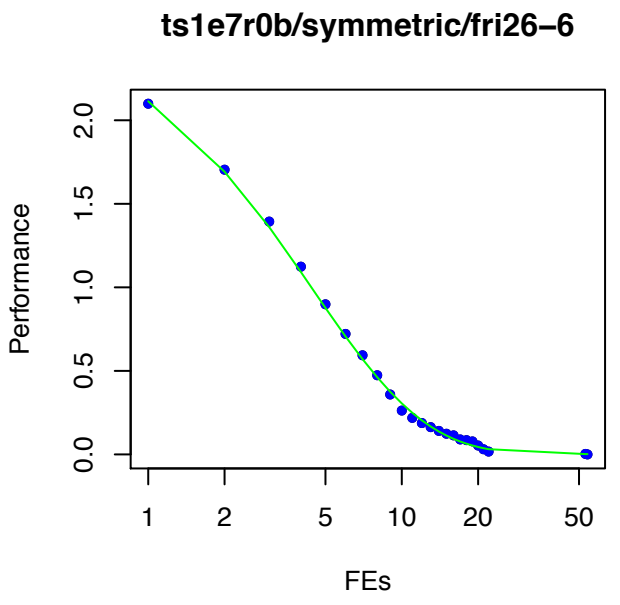
FEs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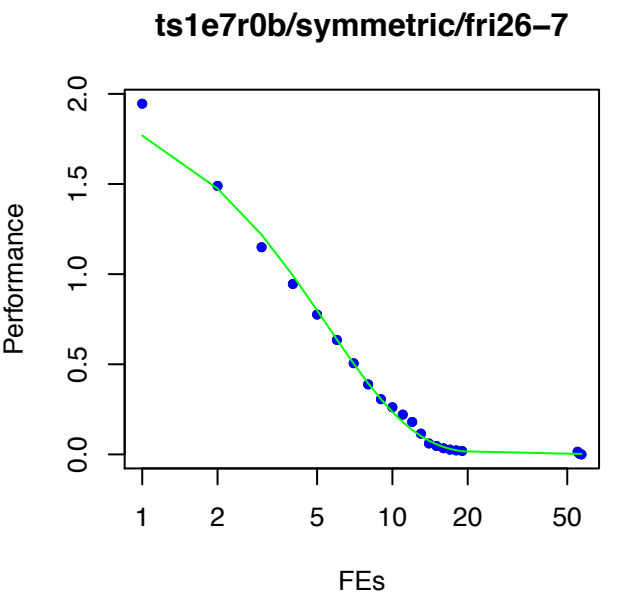
FEs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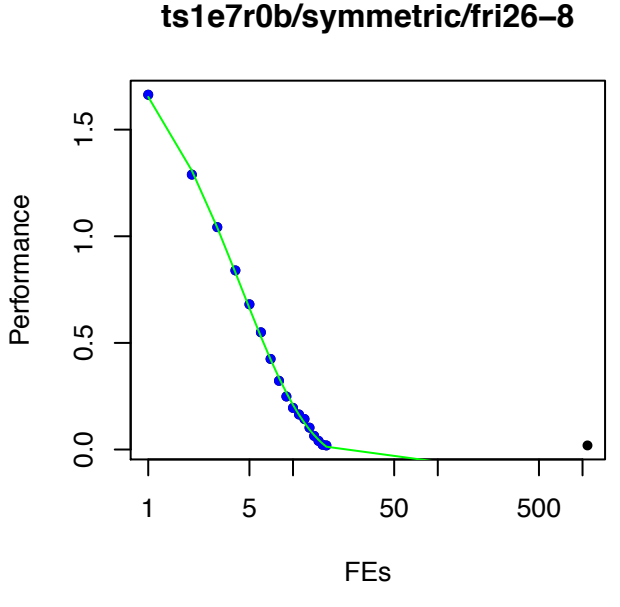
FEs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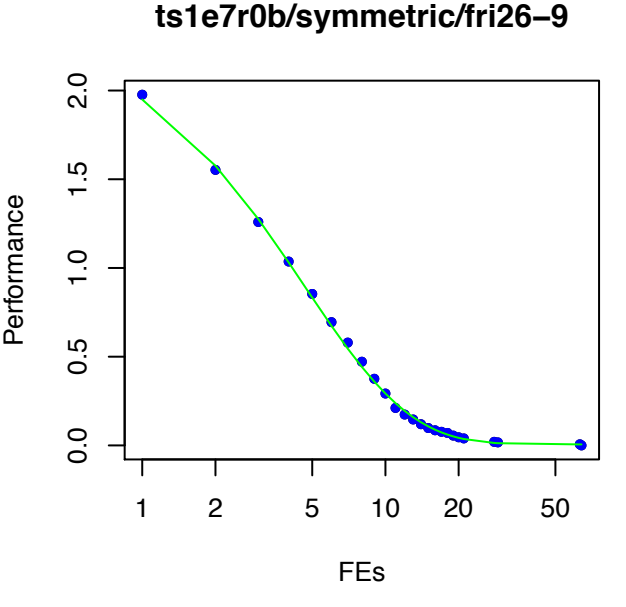
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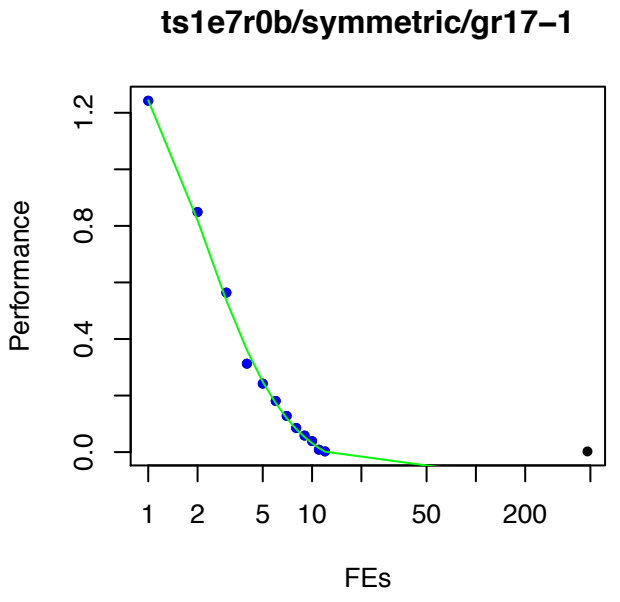
FEs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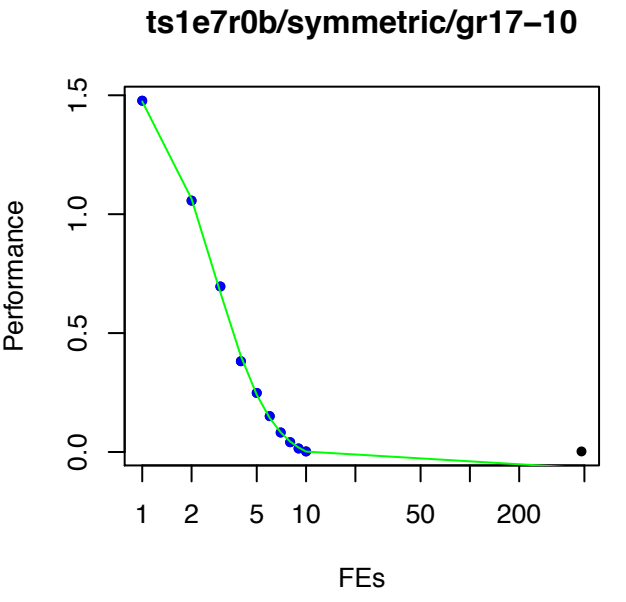
FEs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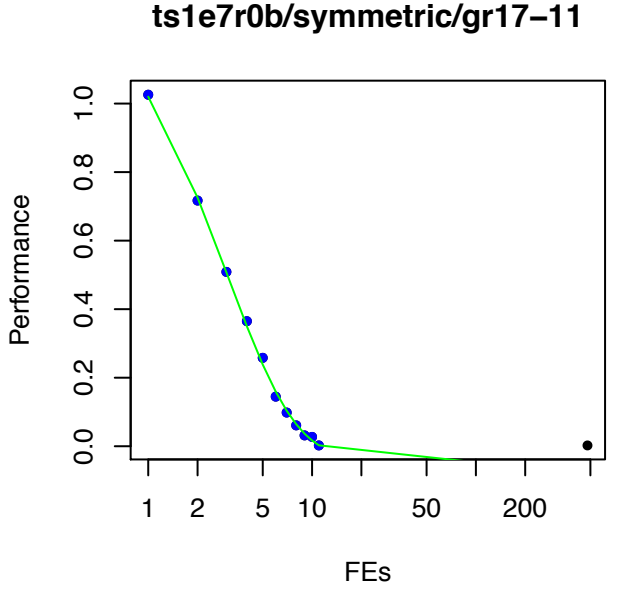
FEs


ts1e7r0b/symmetric/gr17−11
Performance
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2
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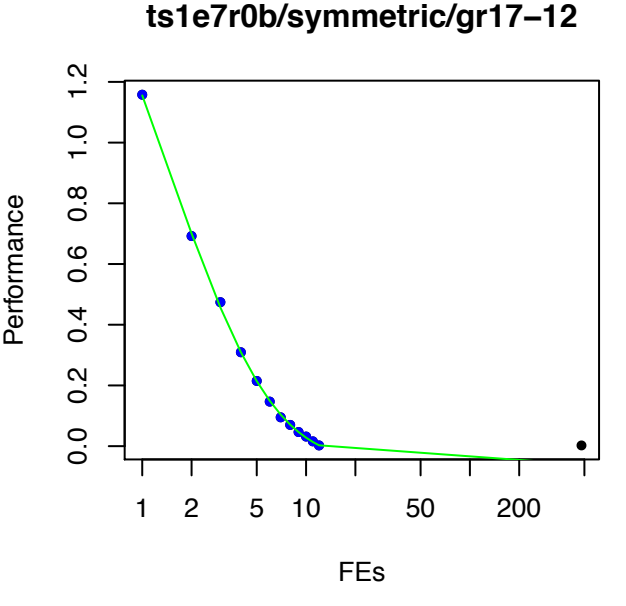
200
FEs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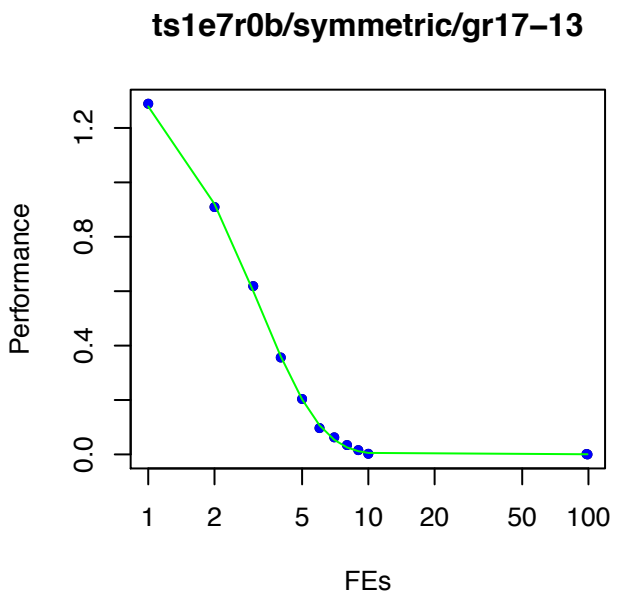
FEs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Performance
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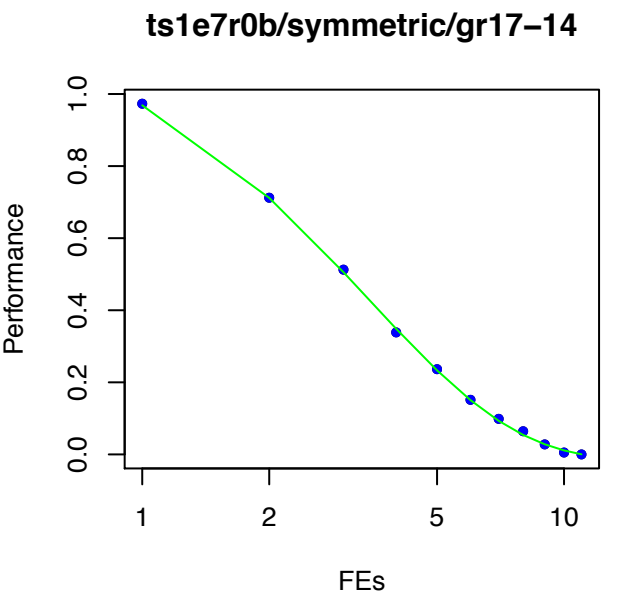
FEs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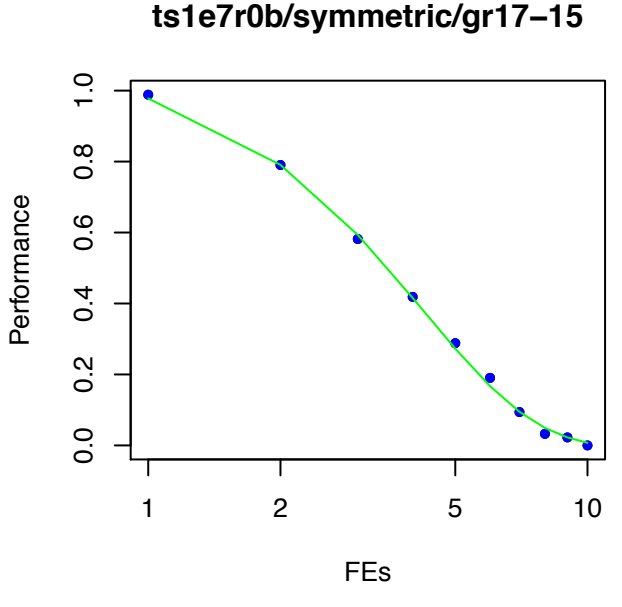
FEs


ts1e7r0b/symmetric/gr17−15
Performance
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5
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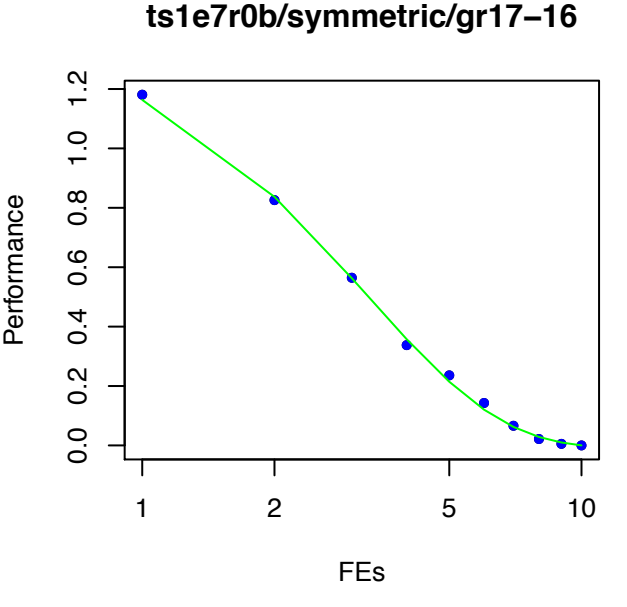
FEs


ts1e7r0b/symmetric/gr17−16
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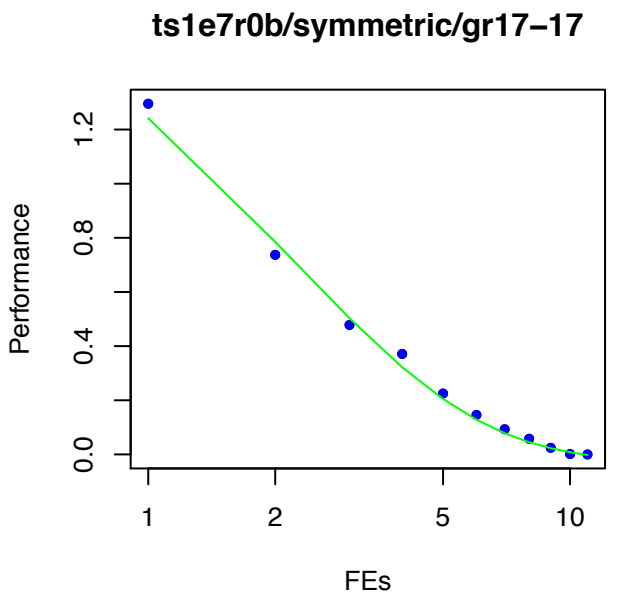
FEs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Performance
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5
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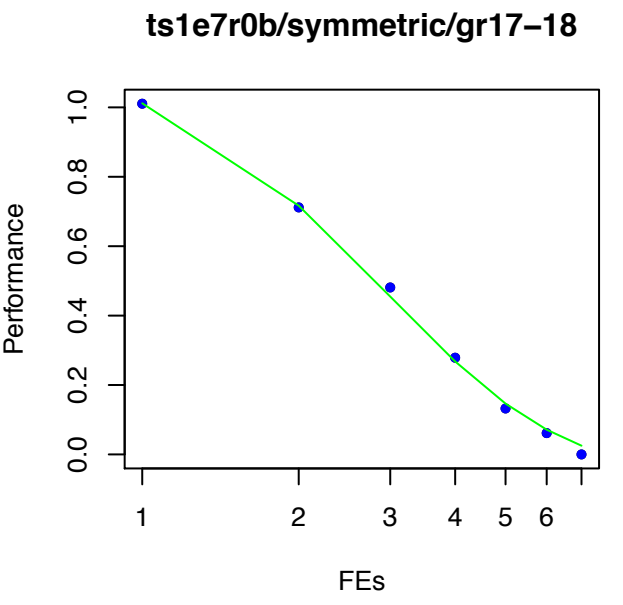
FEs


ts1e7r0b/symmetric/gr17−18
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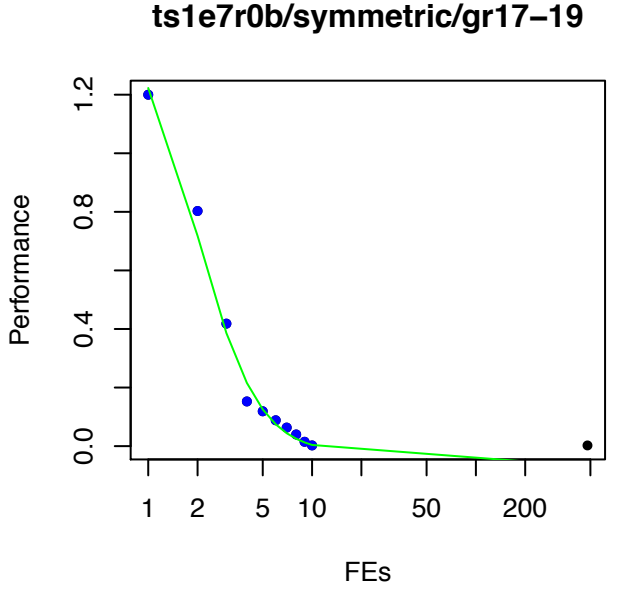
6
FEs


ts1e7r0b/symmetric/gr17−19
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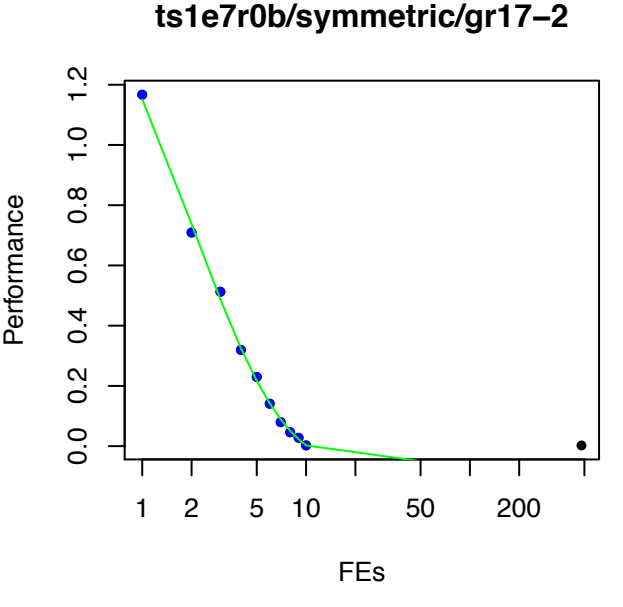
200
FEs


ts1e7r0b/symmetric/gr17−2
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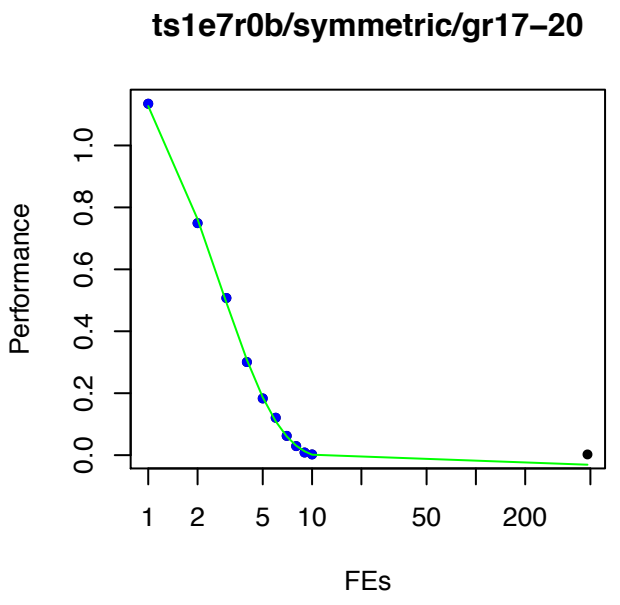
FEs


ts1e7r0b/symmetric/gr17−20
Performance
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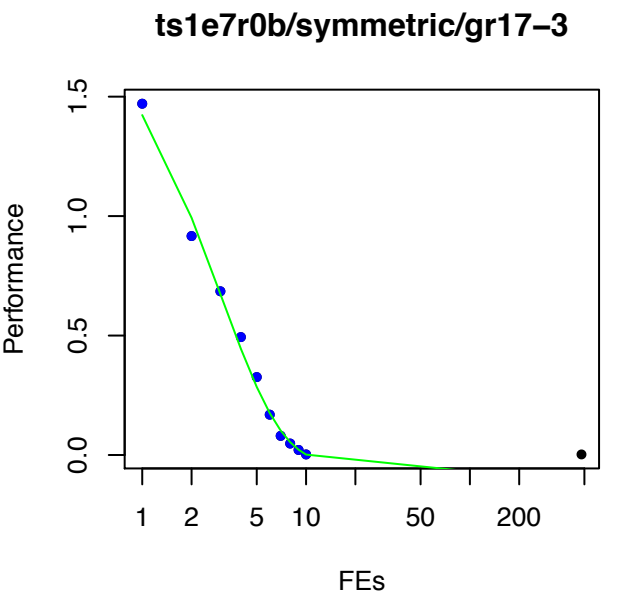
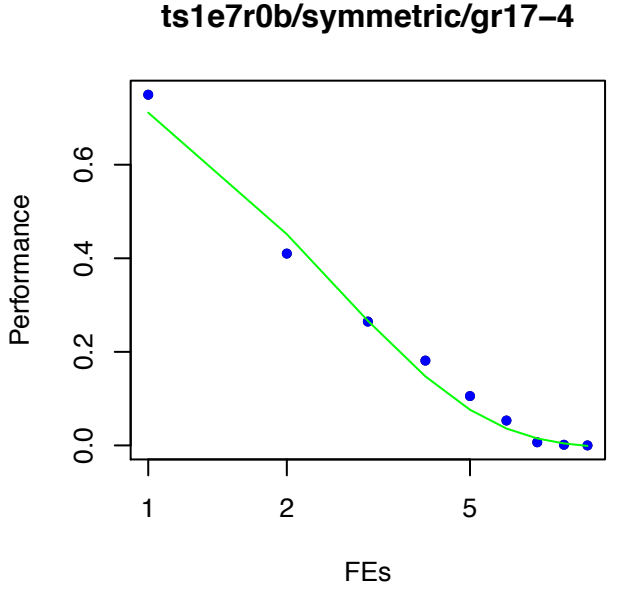
10
50
200
FEs


ts1e7r0b/symmetric/gr17−3
Performance
0.0
0.5
1.0
1.5
1
2
5
10
50
200
FEs


ts1e7r0b/symmetric/gr17−4
Performance
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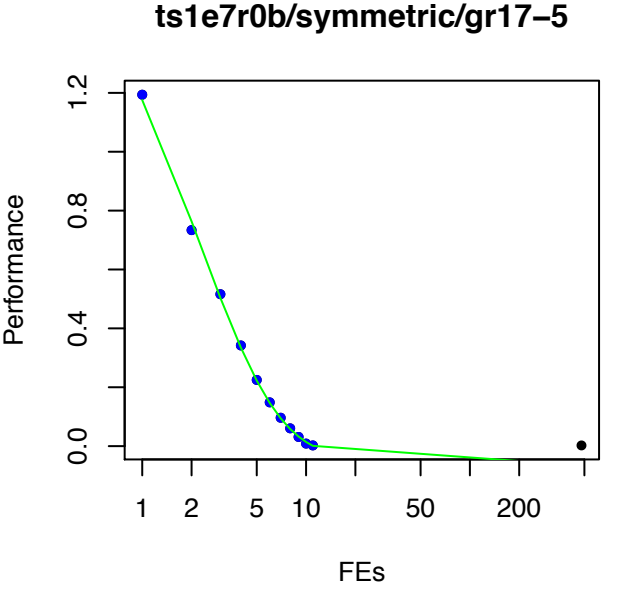
0.4
0.6
1
2
5
FEs


ts1e7r0b/symmetric/gr17−5
Performance
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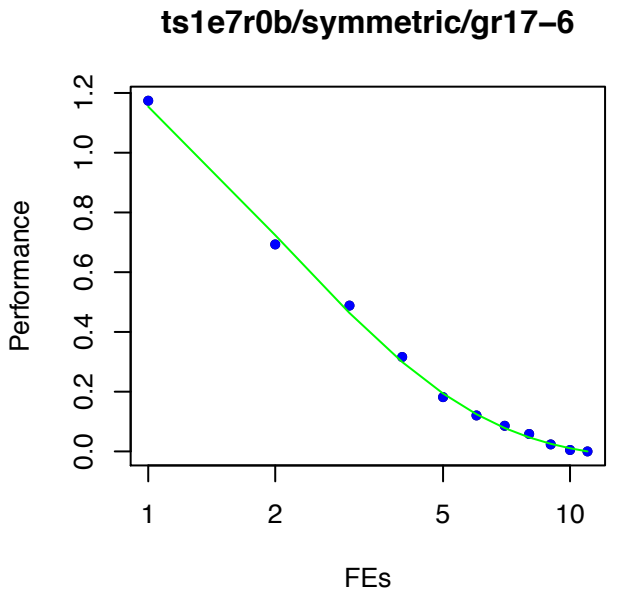
0.4
0.8
1.2
1
2
5
10
50
200
FEs


ts1e7r0b/symmetric/gr17−6
Performance
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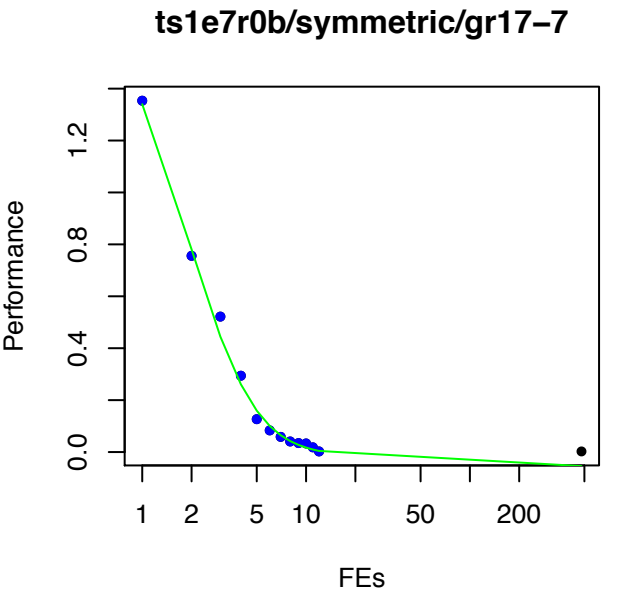
0.2
0.4
0.6
0.8
1.0
1.2
1
2
5
10
FEs


ts1e7r0b/symmetric/gr17−7
Performance
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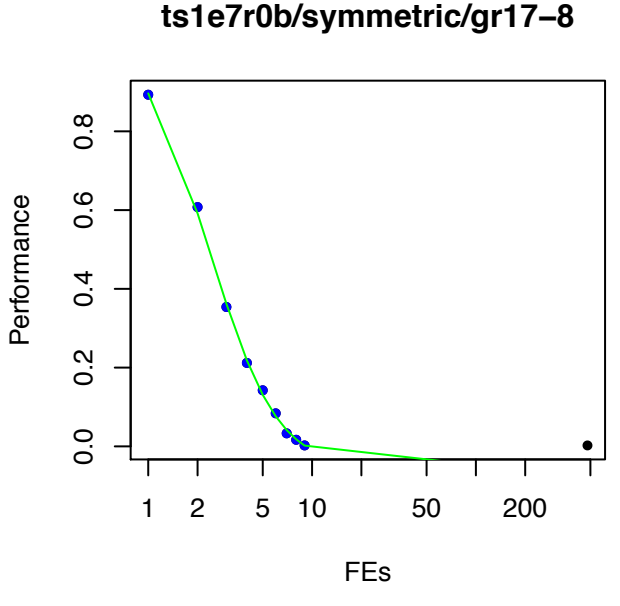
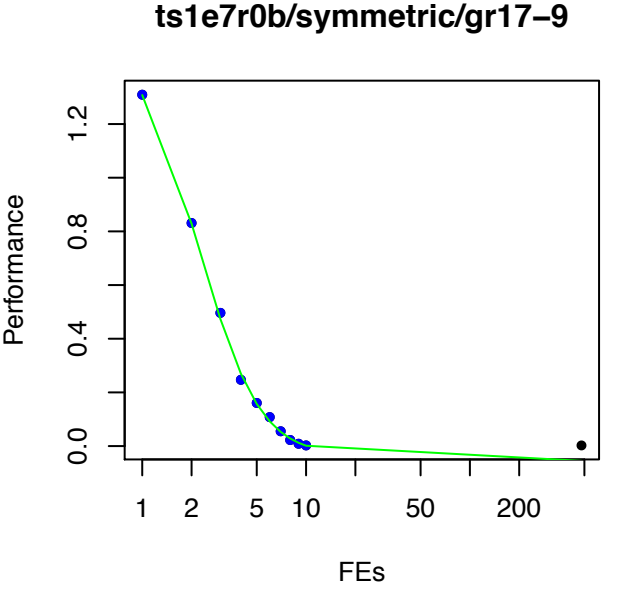
0.4
0.8
1.2
1
2
5
10
50
200
FEs


ts1e7r0b/symmetric/gr17−8
Performance
0.0
0.2
0.4
0.6
0.8
1
2
5
10
50
200
FEs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Performance
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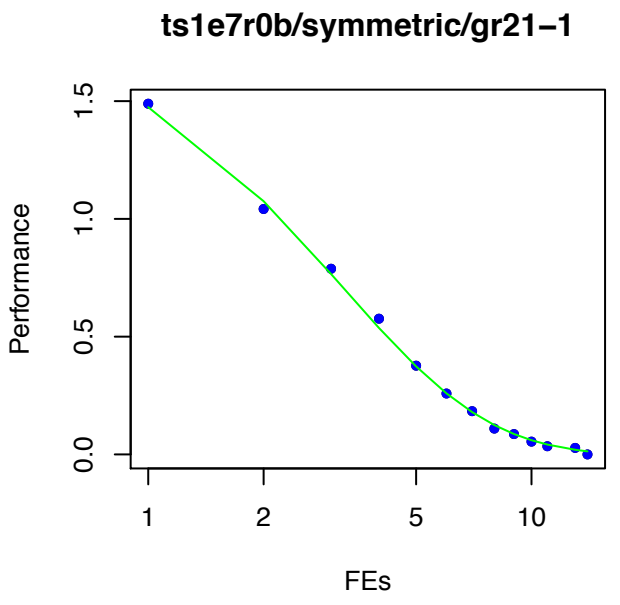
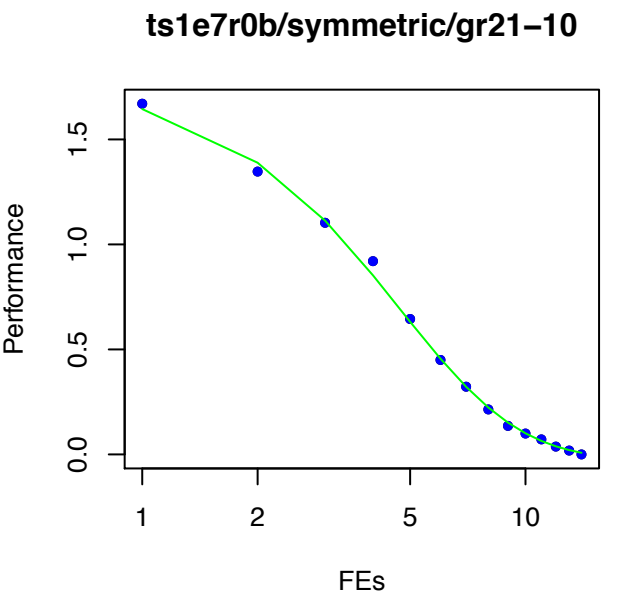
0.8
1.2
1
2
5
10
50
200
FEs


ts1e7r0b/symmetric/gr21−1
Performance
0.0
0.5
1.0
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/gr21−10
Performance
0.0
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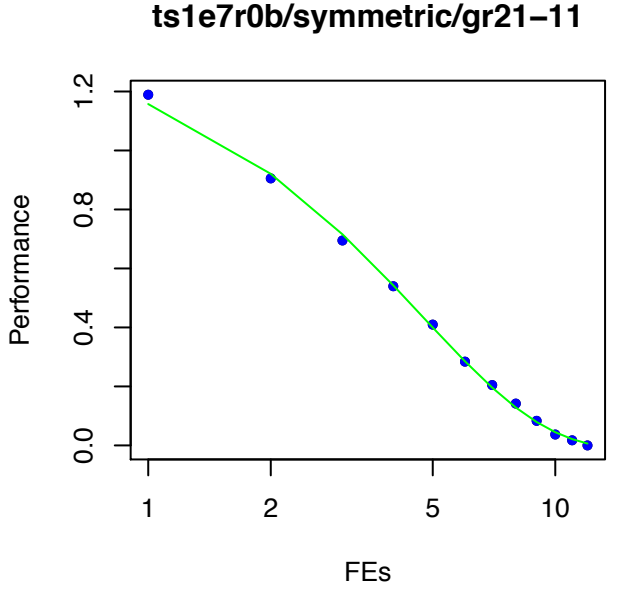
1.0
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/gr21−11
Performance
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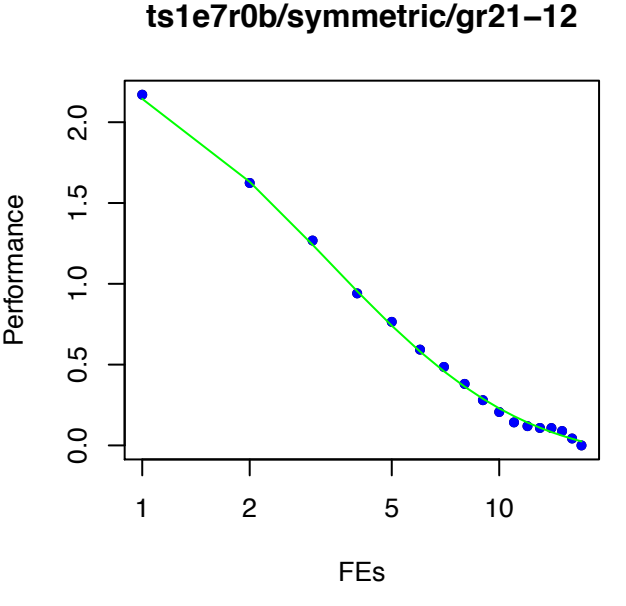
0.4
0.8
1.2
1
2
5
10
FEs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Performance
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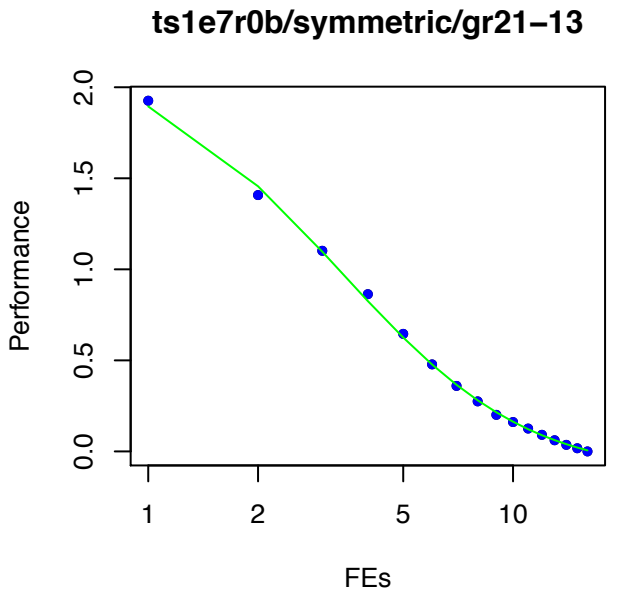
1.0
1.5
2.0
1
2
5
10
FEs


ts1e7r0b/symmetric/gr21−13
Performance
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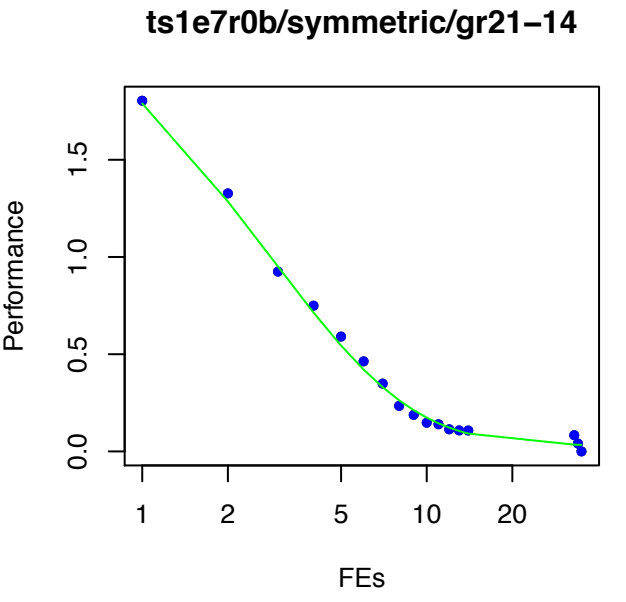
0.5
1.0
1.5
2.0
1
2
5
10
FEs


ts1e7r0b/symmetric/gr21−14
Performance
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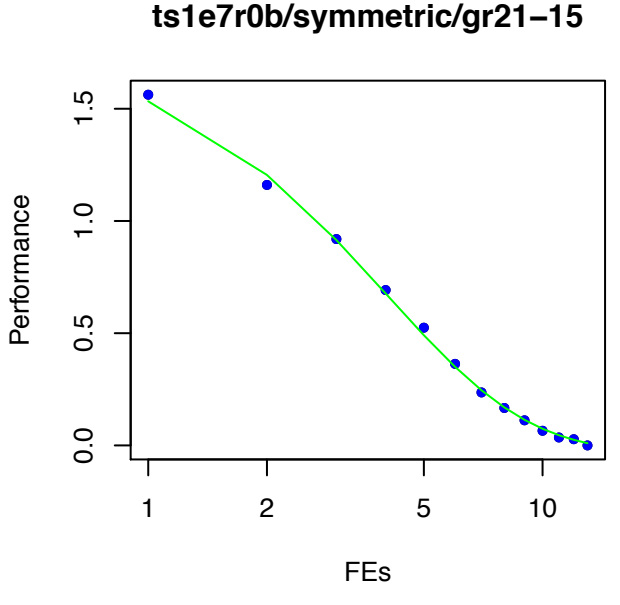
0.5
1.0
1.5
1
2
5
10
20
FEs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Performance
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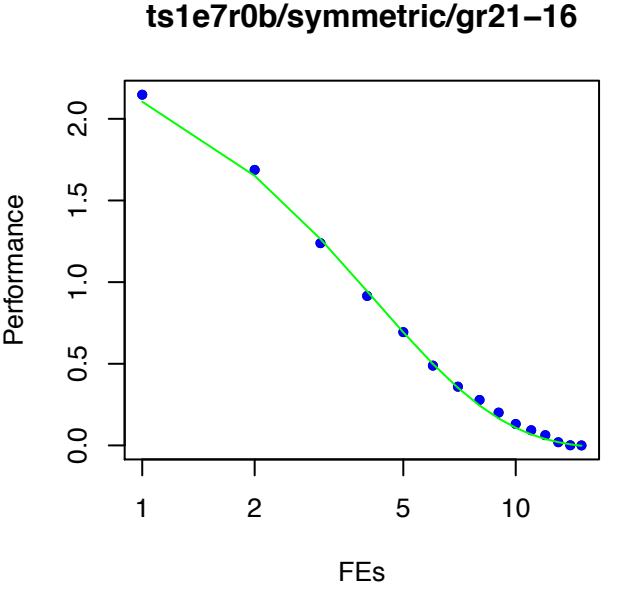
0.5
1.0
1.5
1
2
5
10
FEs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Performance
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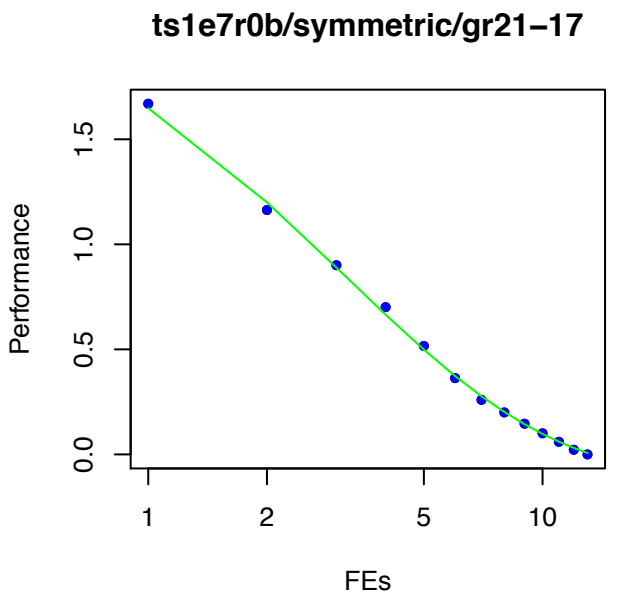
1.0
1.5
2.0
1
2
5
10
FEs


ts1e7r0b/symmetric/gr21−17
Performance
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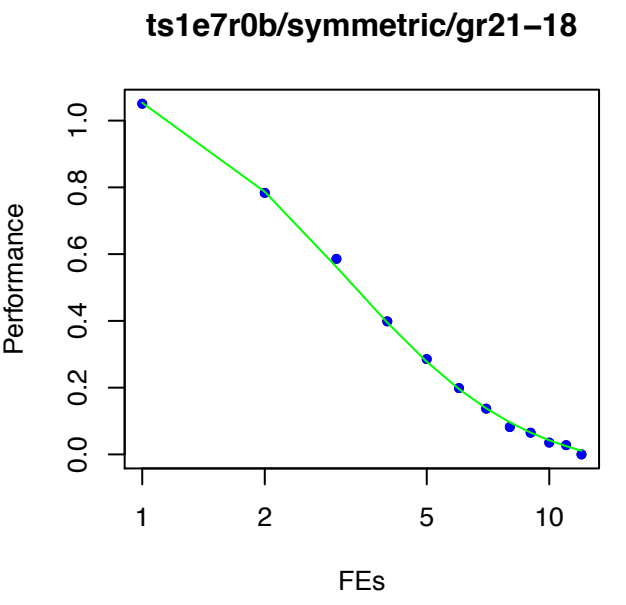
0.5
1.0
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/gr21−18
Performance
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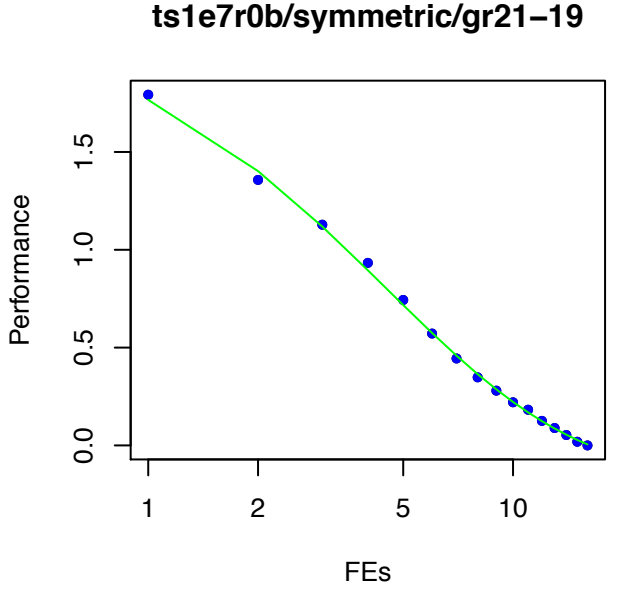
0.2
0.4
0.6
0.8
1.0
1
2
5
10
FEs


ts1e7r0b/symmetric/gr21−19
Performance
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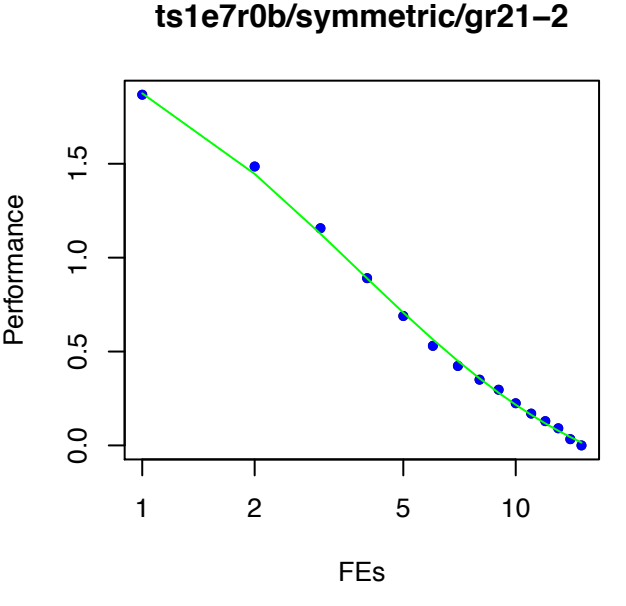
0.5
1.0
1.5
1
2
5
10
FEs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Performance
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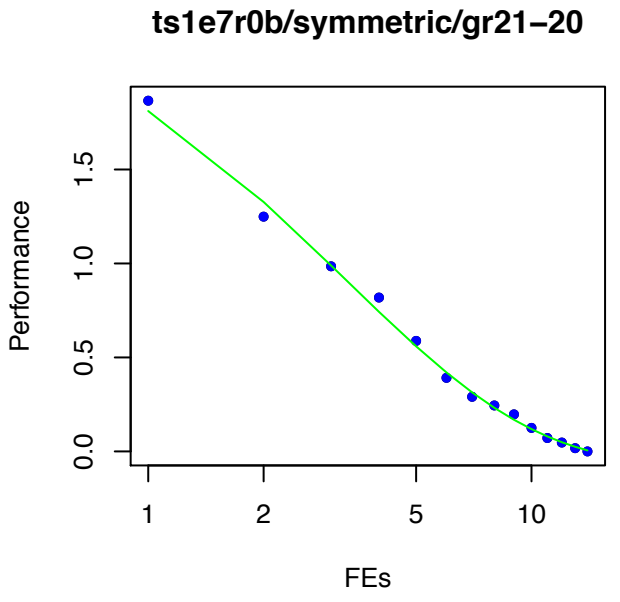
1.0
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/gr21−20
Performance
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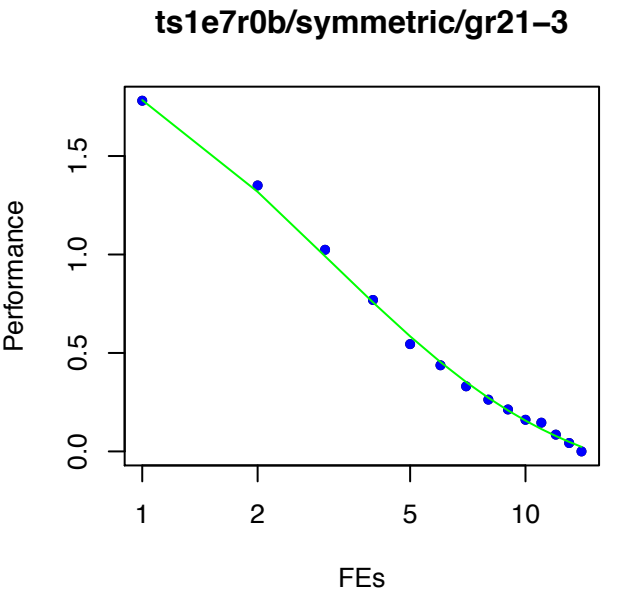
0.5
1.0
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/gr21−3
Performance
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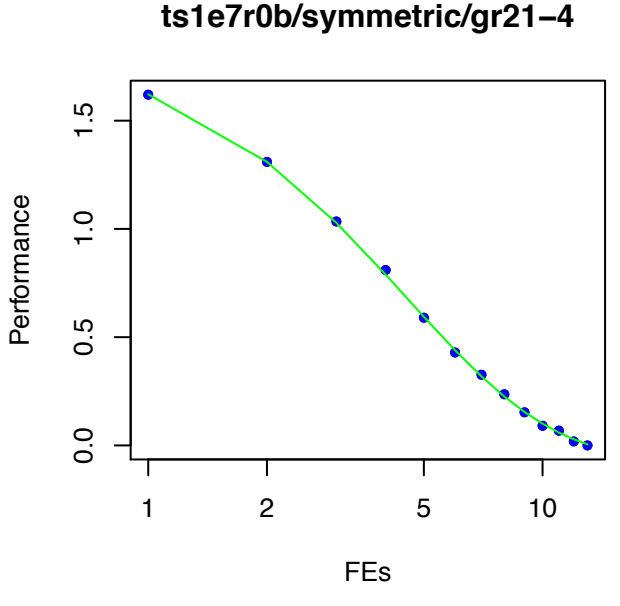
0.5
1.0
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/gr21−4
Performance
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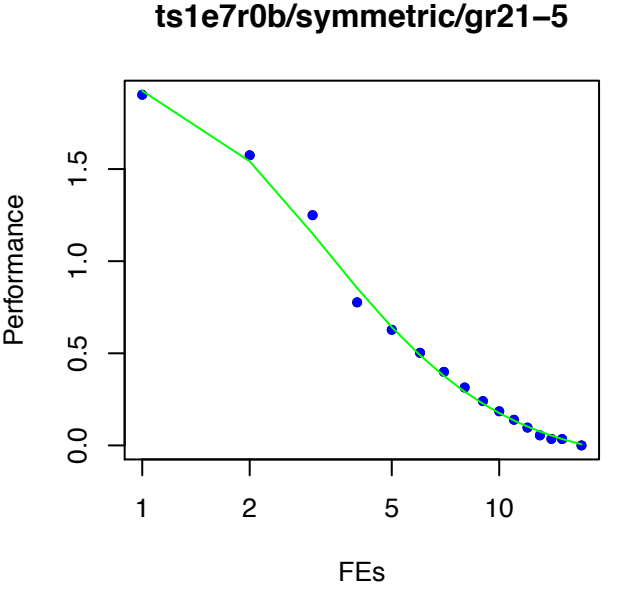
1.0
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/gr21−5
Performance
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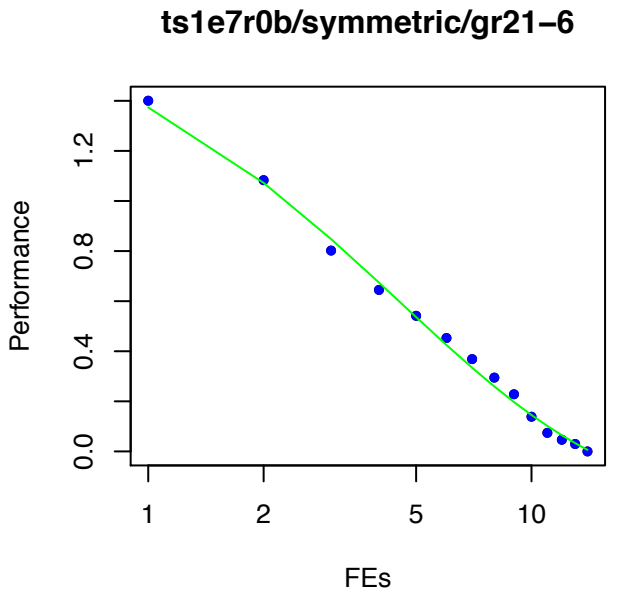
0.5
1.0
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/gr21−6
Performance
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0.8
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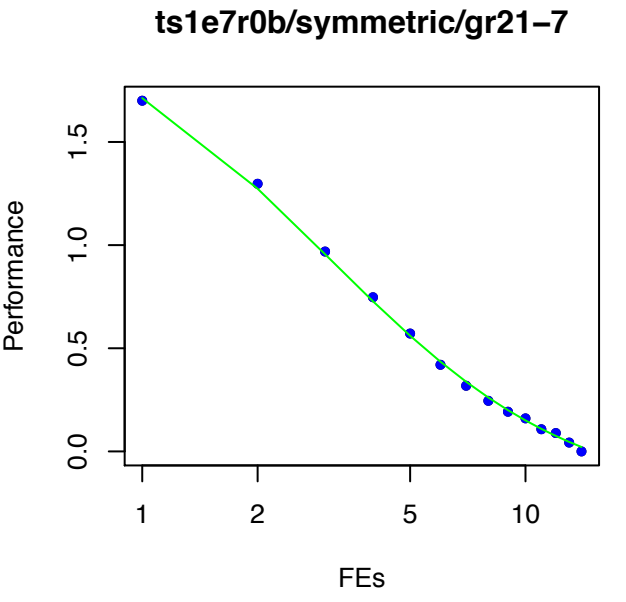
1
2
5
10
FEs


ts1e7r0b/symmetric/gr21−7
Performance
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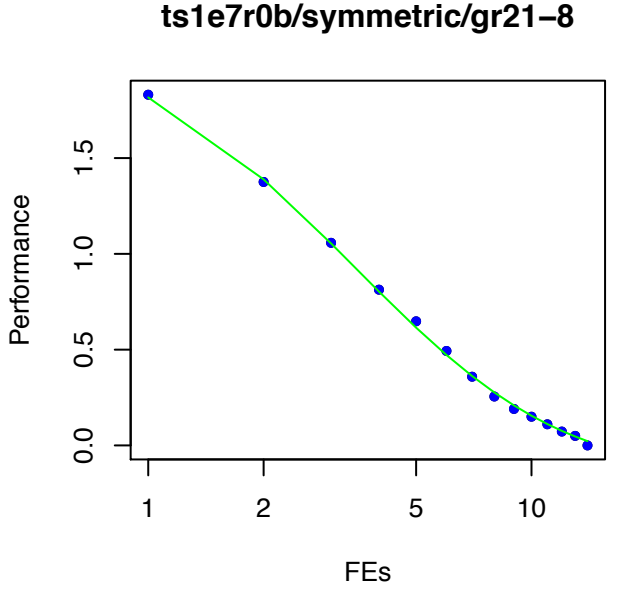
1.0
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/gr21−8
Performance
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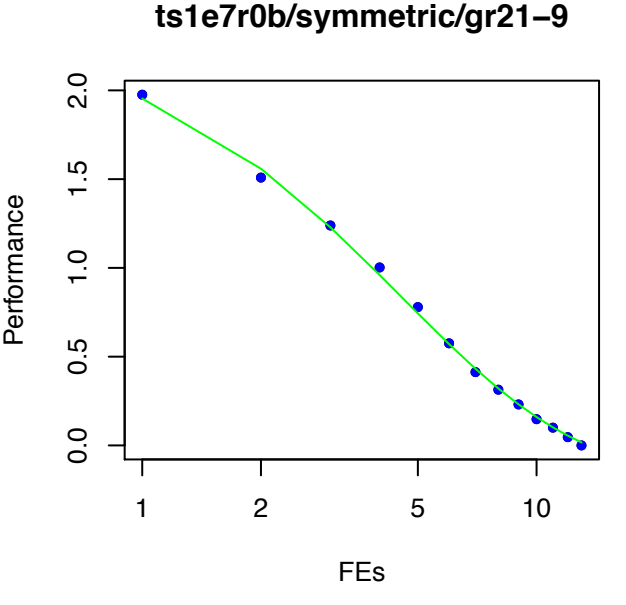
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/gr21−9
Performance
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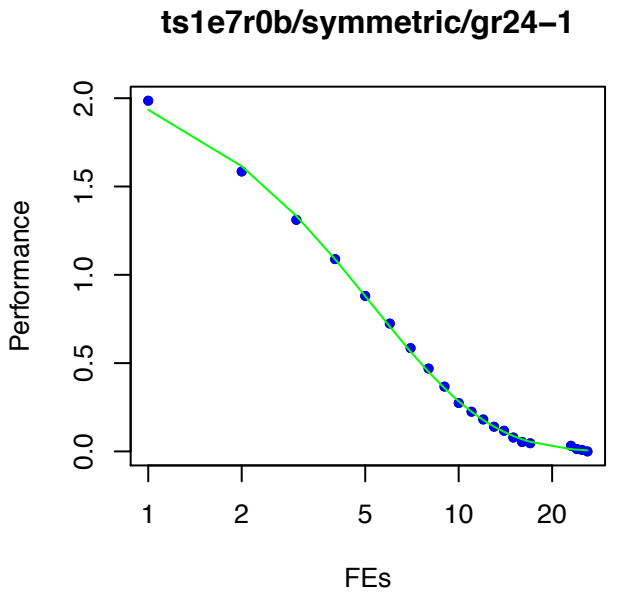
1.5
2.0
1
2
5
10
FEs


ts1e7r0b/symmetric/gr24−1
Performance
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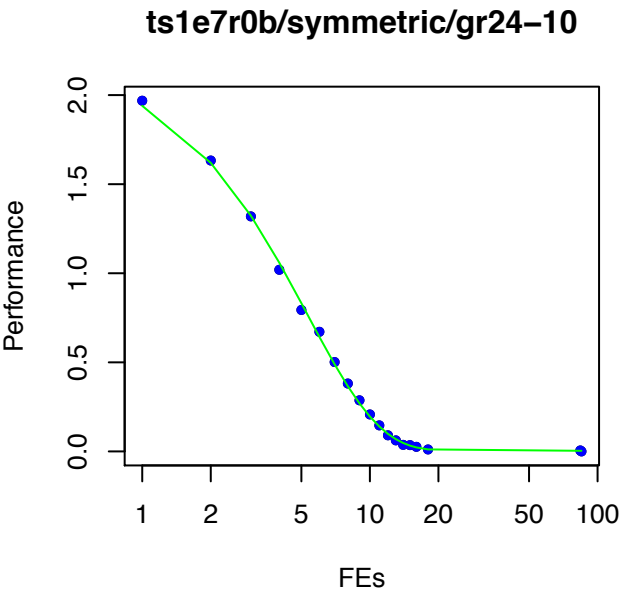
1.0
1.5
2.0
1
2
5
10
20
FEs


ts1e7r0b/symmetric/gr24−10
Performance
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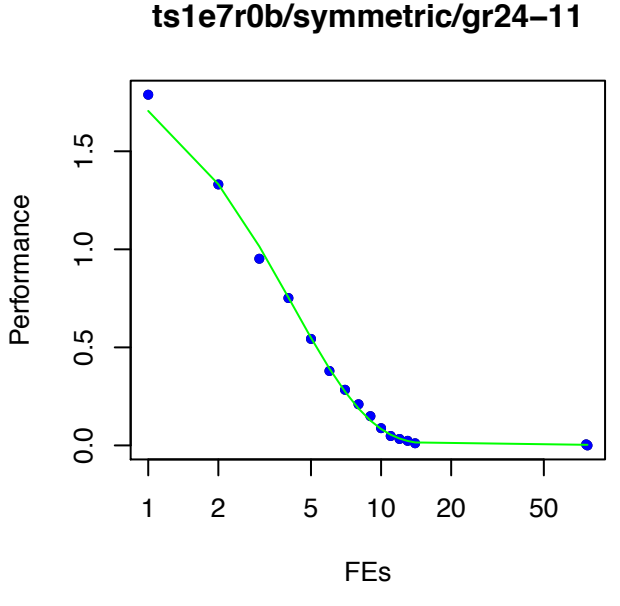
1.0
1.5
2.0
1
2
5
10
20
50
100
FEs


ts1e7r0b/symmetric/gr24−11
Performance
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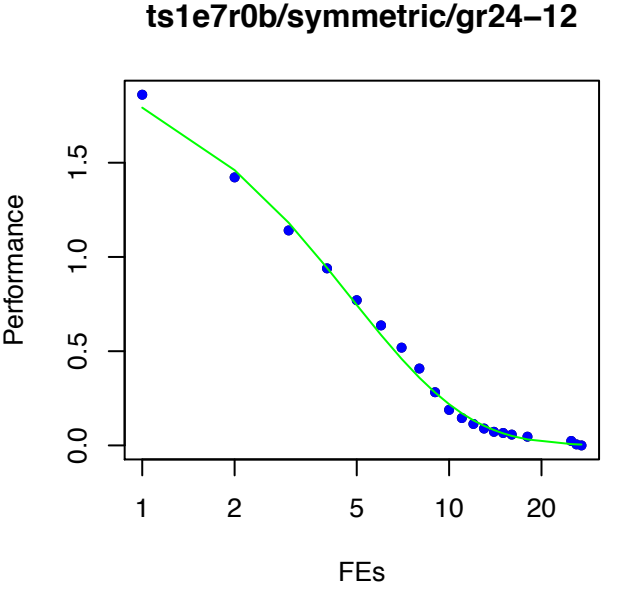
1.0
1.5
1
2
5
10
20
50
FEs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Performance
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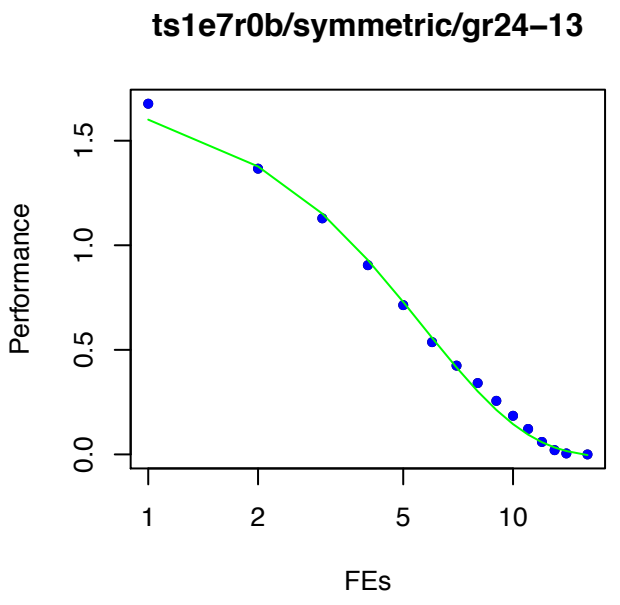
1.5
1
2
5
10
20
FEs


ts1e7r0b/symmetric/gr24−13
Performance
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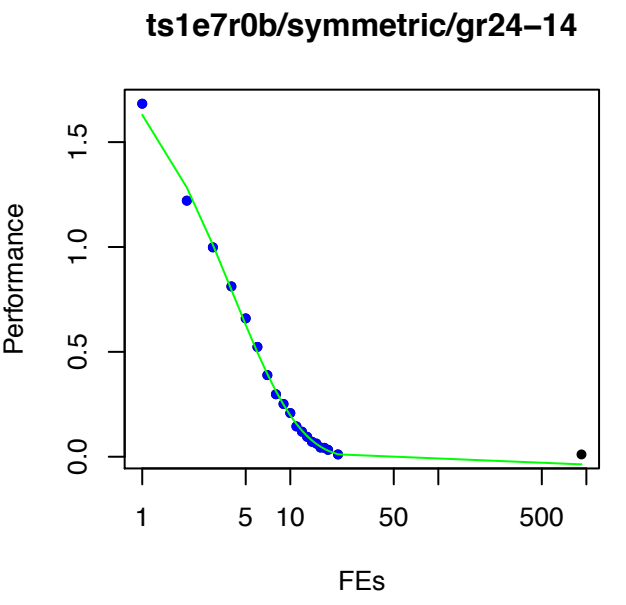
1.0
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/gr24−14
Performance
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1.5
1
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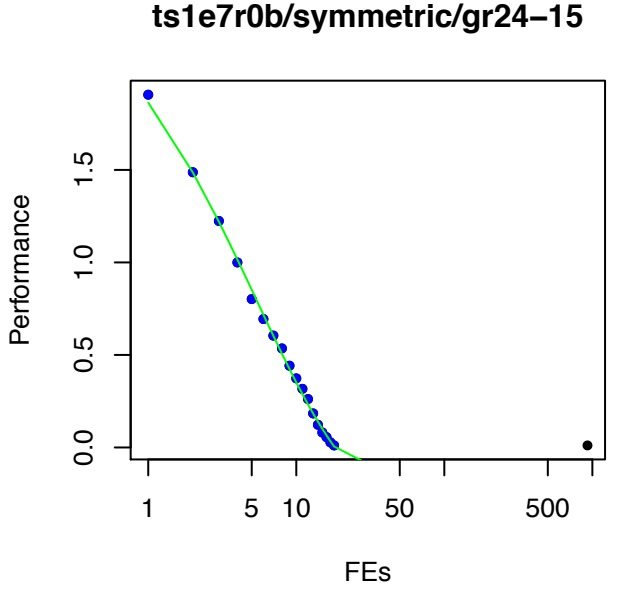
10
50
500
FEs


ts1e7r0b/symmetric/gr24−15
Performance
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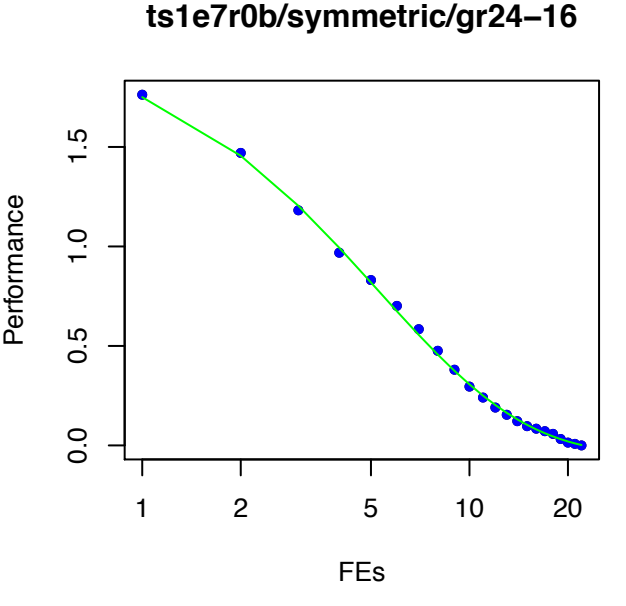
0.5
1.0
1.5
1
5
10
50
500
FEs


ts1e7r0b/symmetric/gr24−16
Performance
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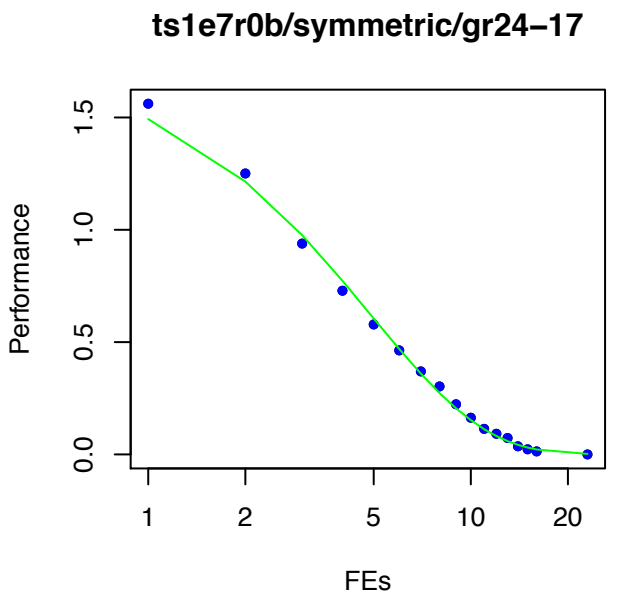
0.5
1.0
1.5
1
2
5
10
20
FEs


ts1e7r0b/symmetric/gr24−17
Performance
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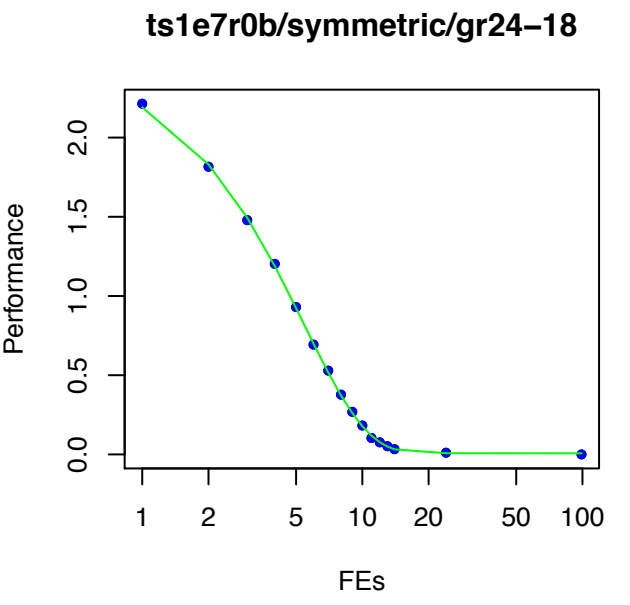
1.0
1.5
1
2
5
10
20
FEs


ts1e7r0b/symmetric/gr24−18
Performance
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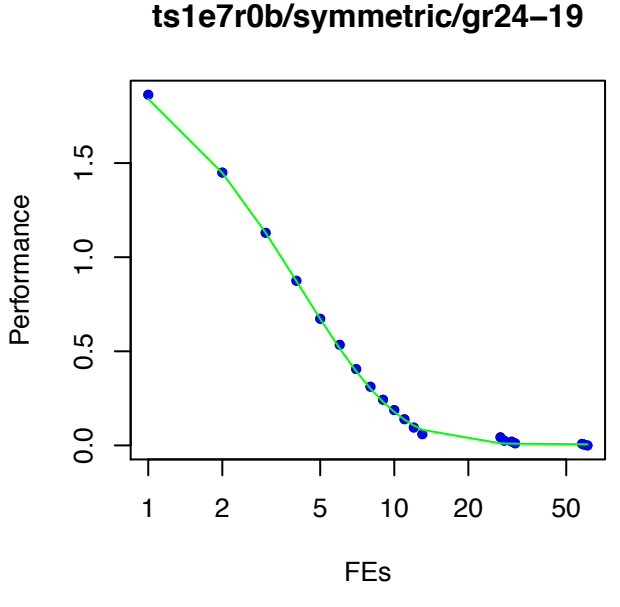
0.5
1.0
1.5
2.0
1
2
5
10
20
50
100
FEs


ts1e7r0b/symmetric/gr24−19
Performance
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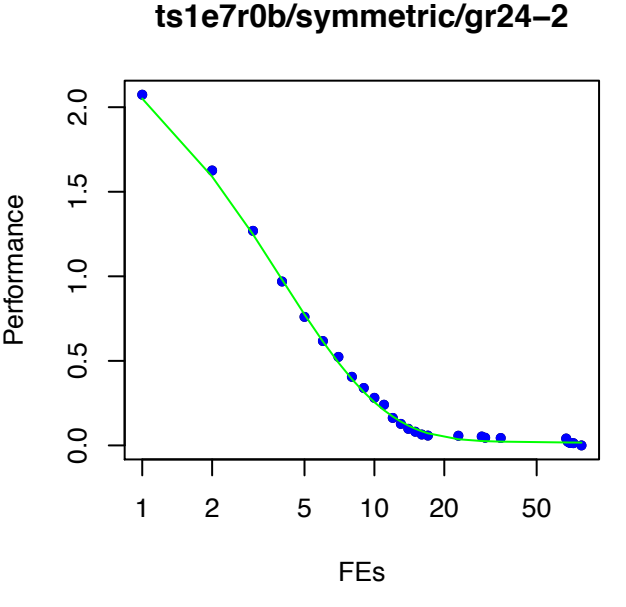
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/gr24−2
Performance
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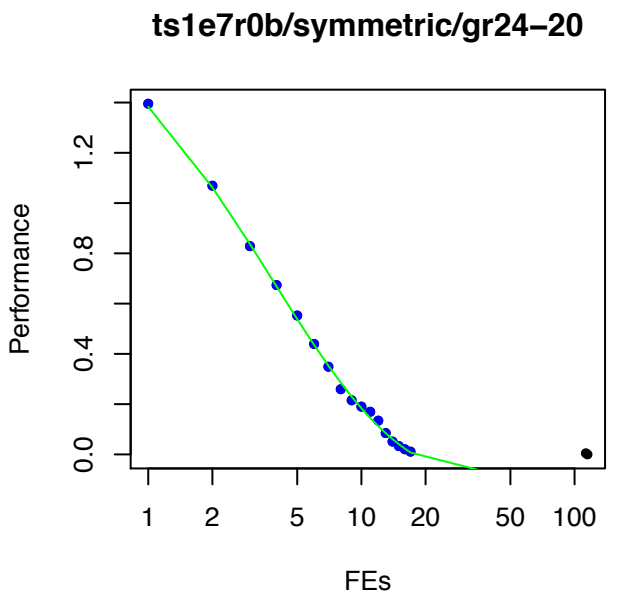
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/gr24−20
Performance
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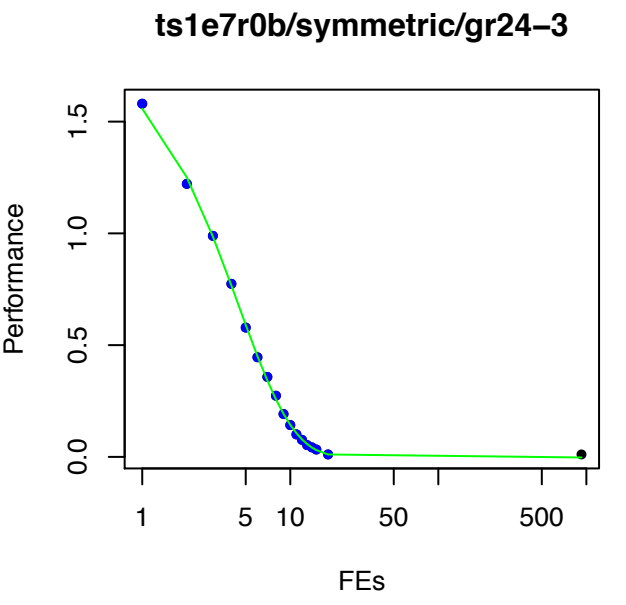
0.4
0.8
1.2
1
2
5
10
20
50
100
FEs


ts1e7r0b/symmetric/gr24−3
Performance
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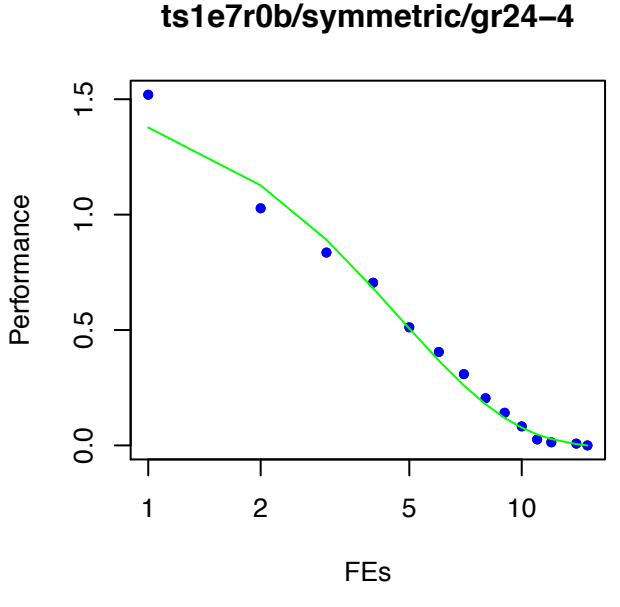
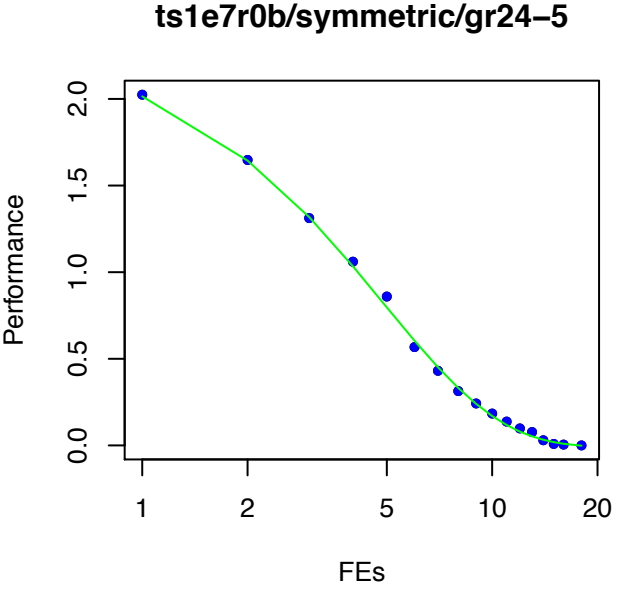
0.5
1.0
1.5
1
5
10
50
500
FEs


ts1e7r0b/symmetric/gr24−4
Performance
0.0
0.5
1.0
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/gr24−5
Performance
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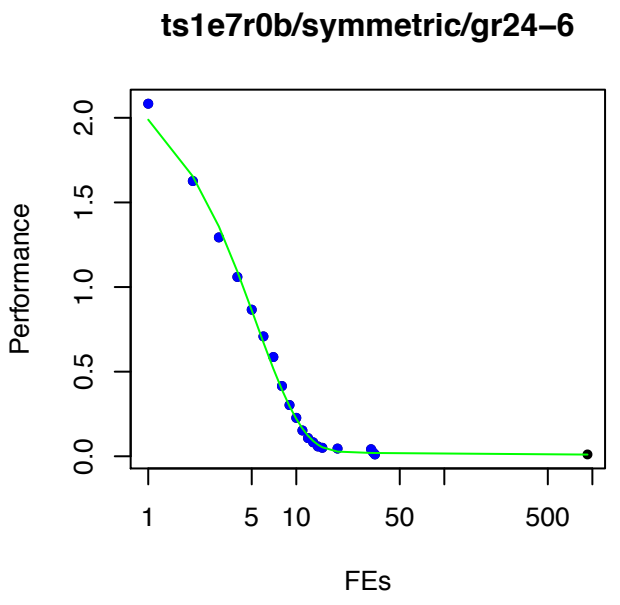
2.0
1
2
5
10
20
FEs


ts1e7r0b/symmetric/gr24−6
Performance
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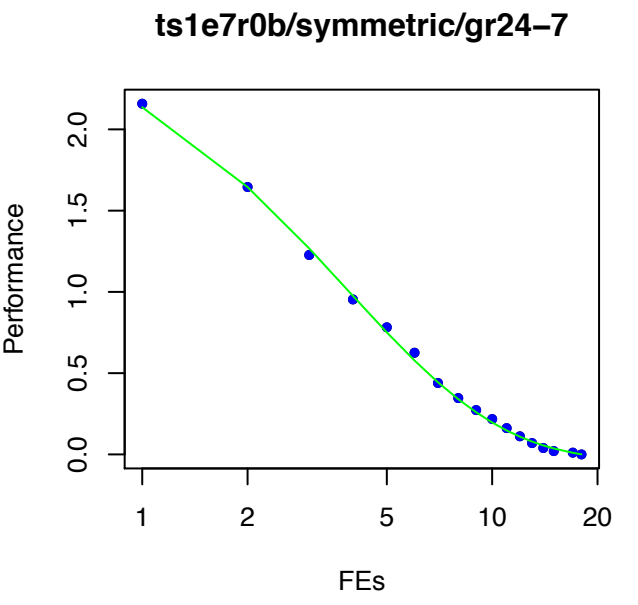
1.0
1.5
2.0
1
5
10
50
500
FEs


ts1e7r0b/symmetric/gr24−7
Performance
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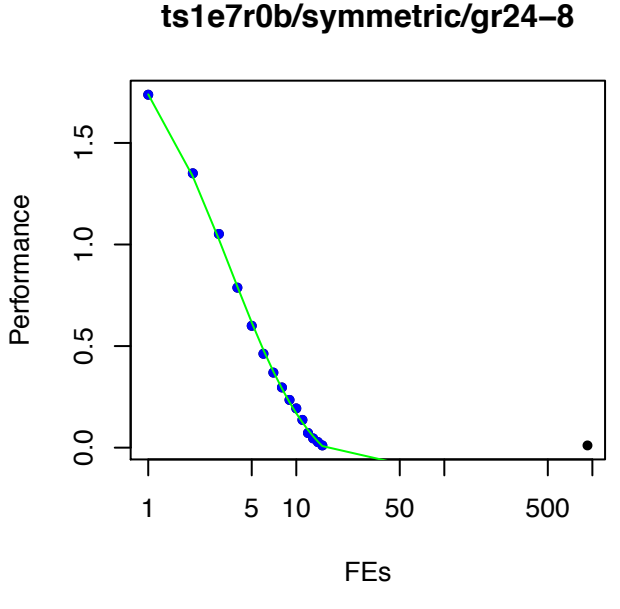
1.0
1.5
2.0
1
2
5
10
20
FEs


ts1e7r0b/symmetric/gr24−8
Performance
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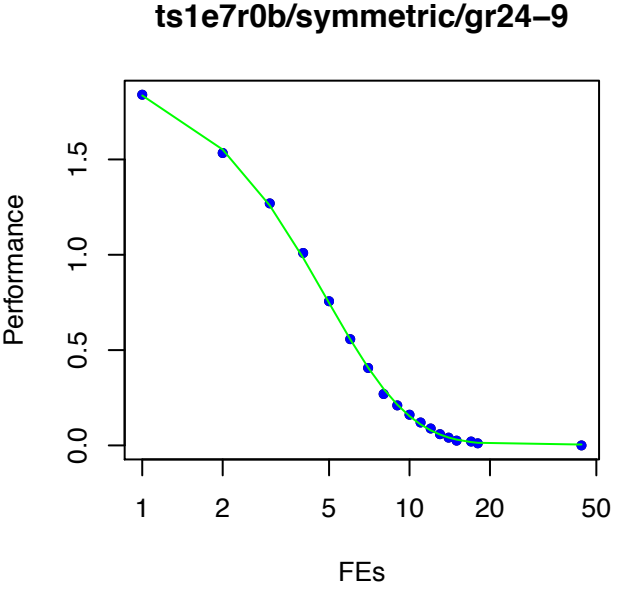
1.5
1
5
10
50
500
FEs


ts1e7r0b/symmetric/gr24−9
Performance
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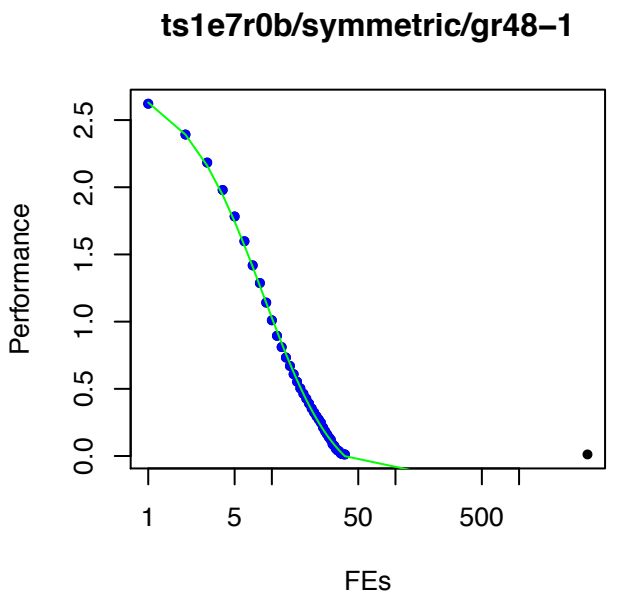
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/gr48−1
Performance
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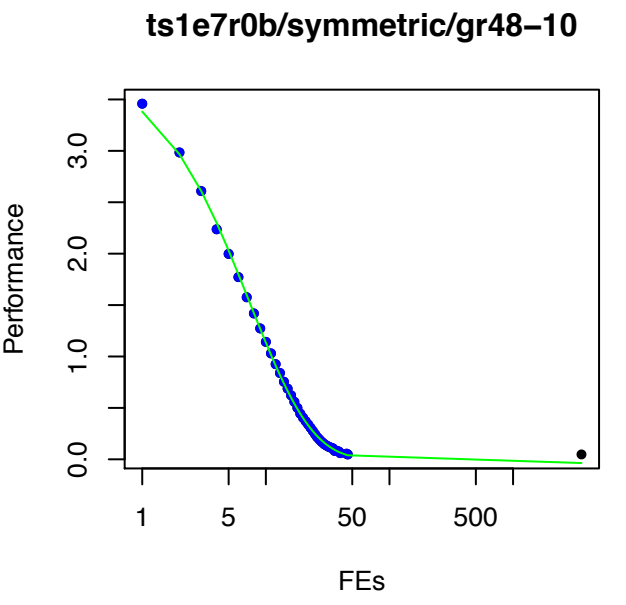
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−10
Performance
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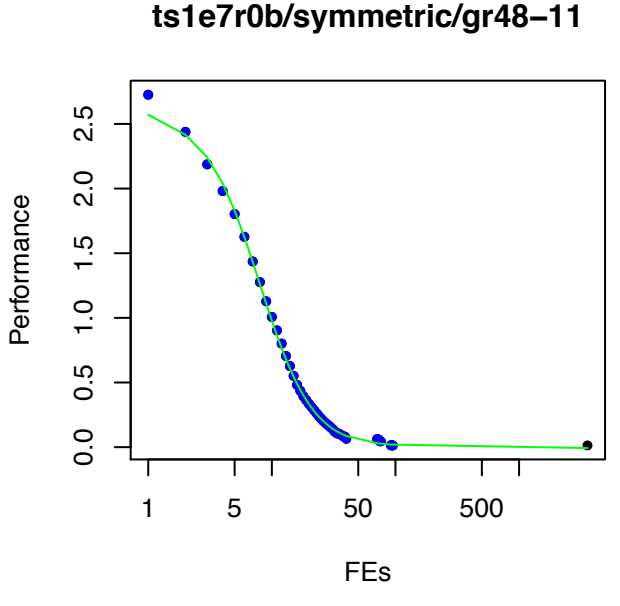
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−11
Performance
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1.5
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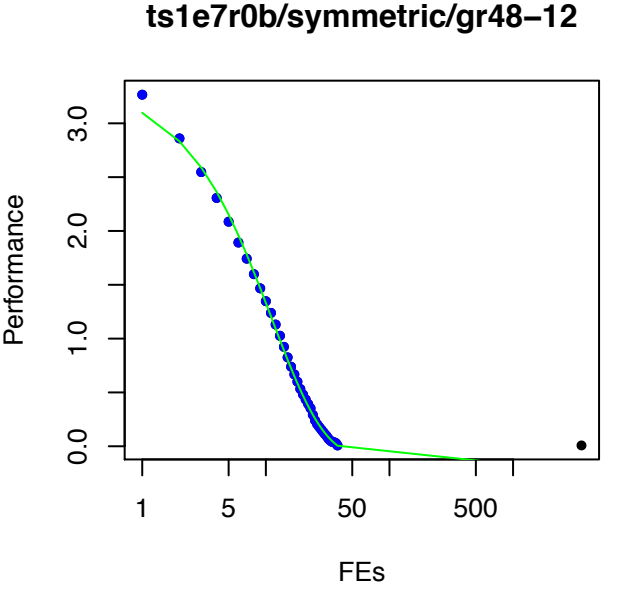
2.5
1
5
50
500
FEs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1
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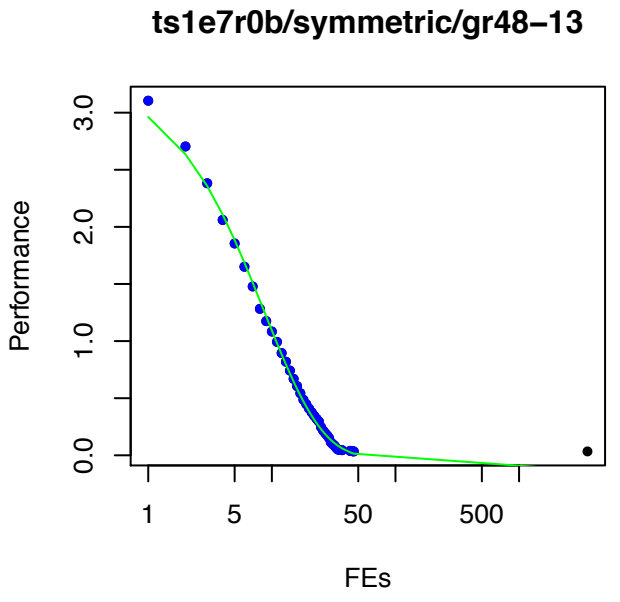
50
500
FEs


ts1e7r0b/symmetric/gr48−13
Performance
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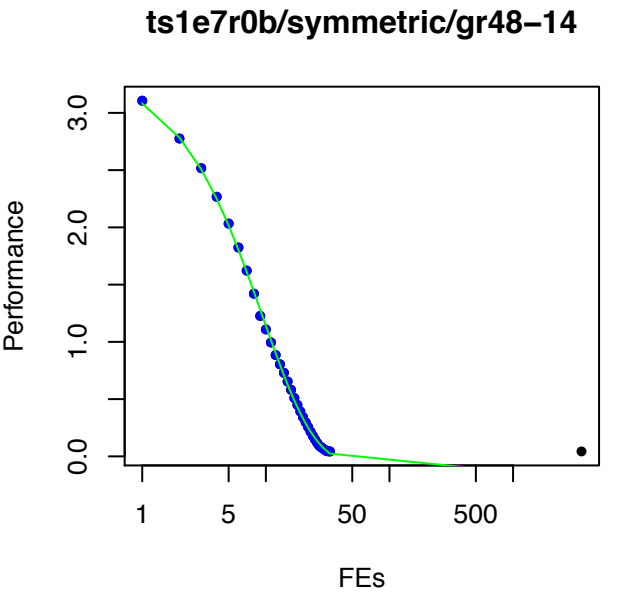
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−14
Performance
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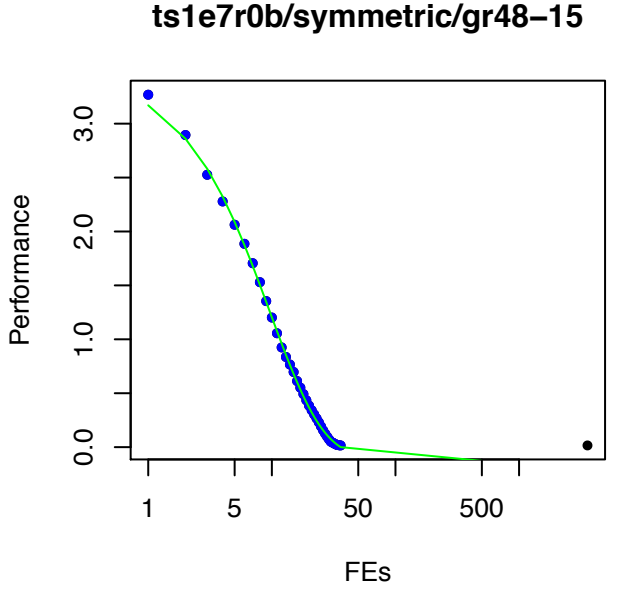
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−15
Performance
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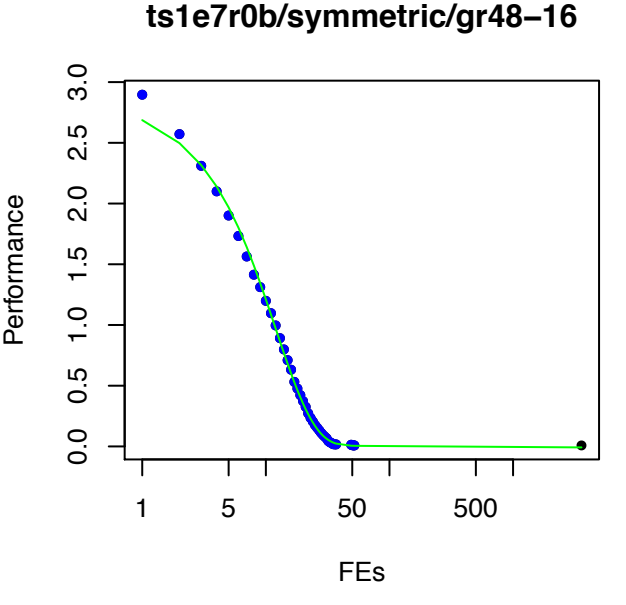
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−16
Performance
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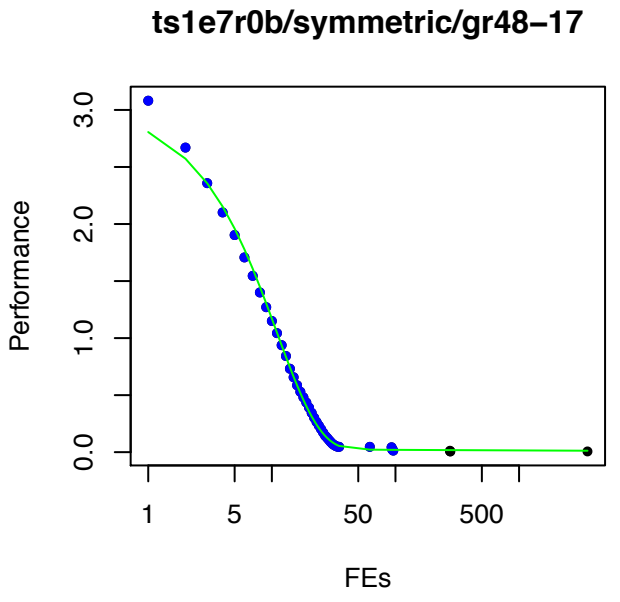
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−17
Performance
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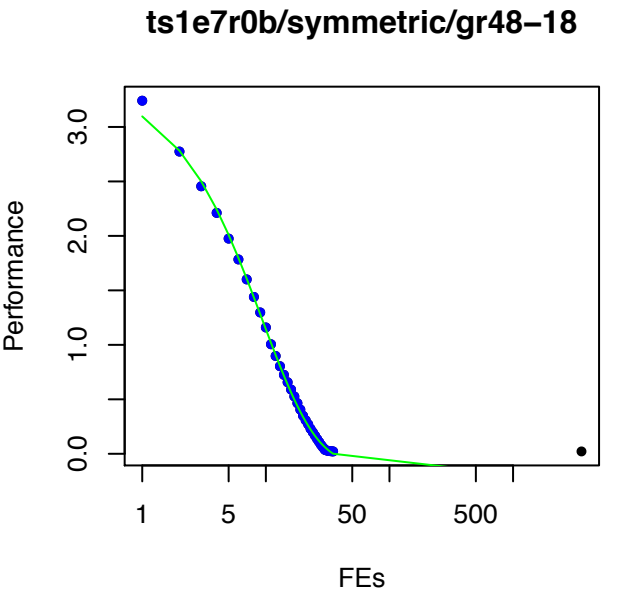
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−18
Performance
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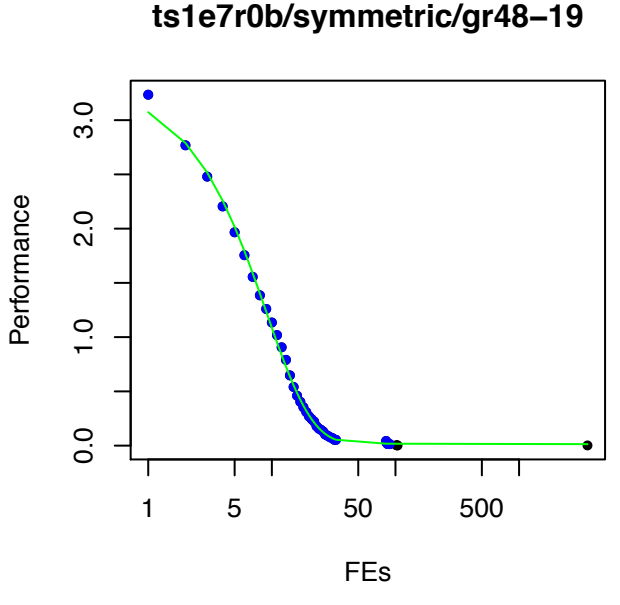
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−19
Performance
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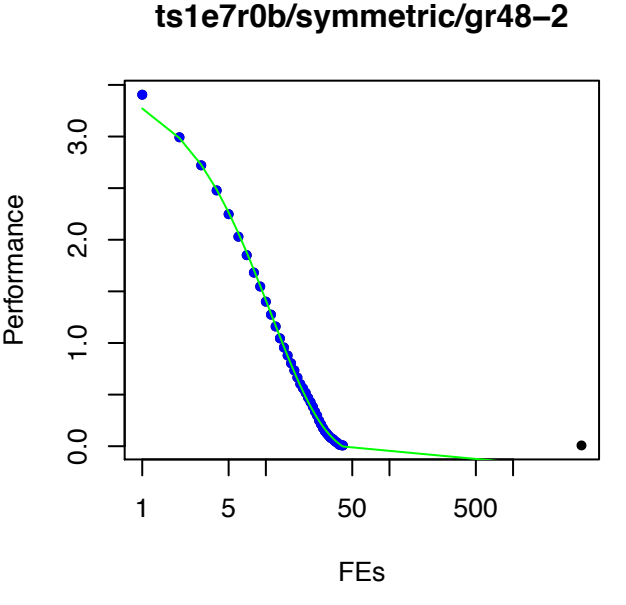
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−2
Performance
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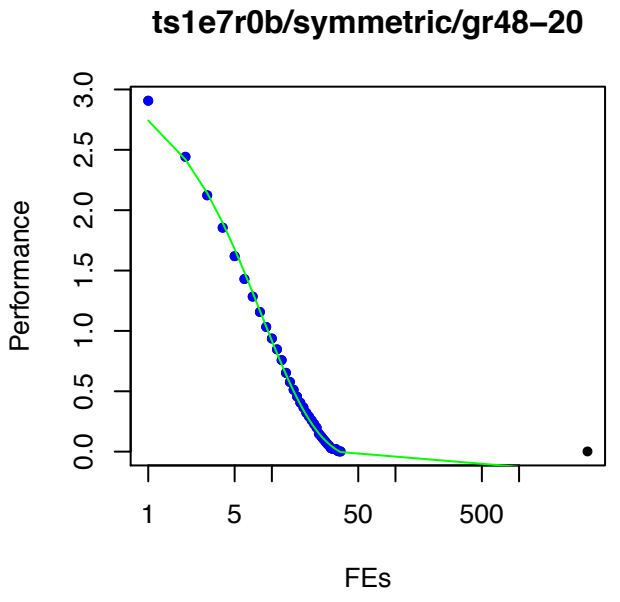
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−20
Performance
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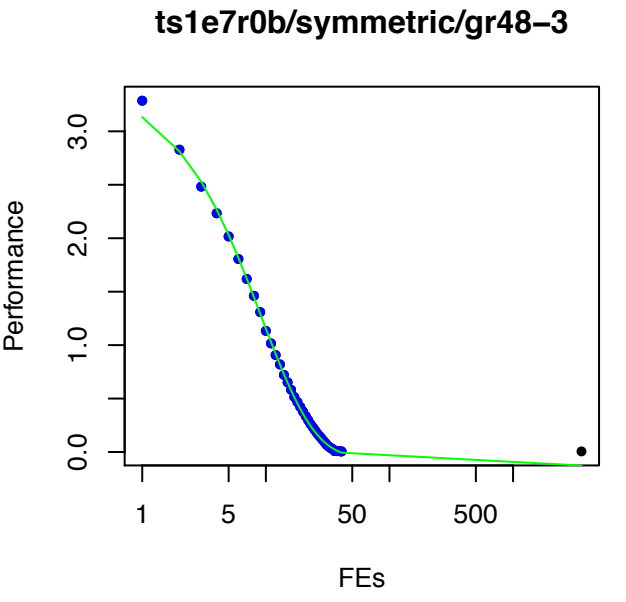
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−3
Performance
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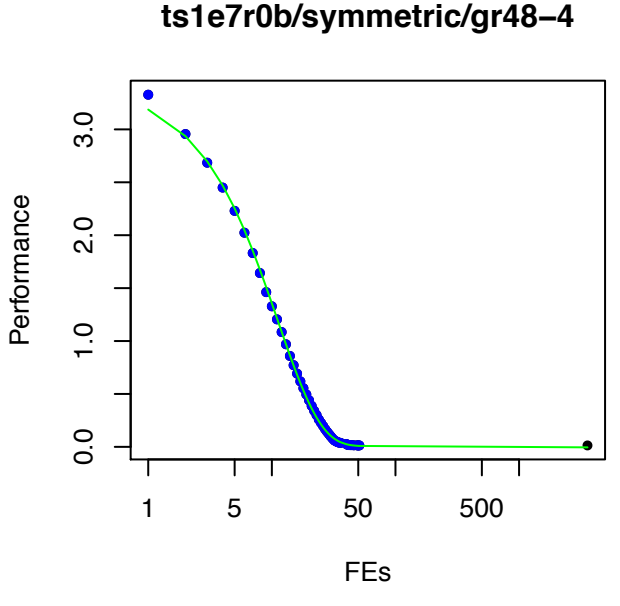
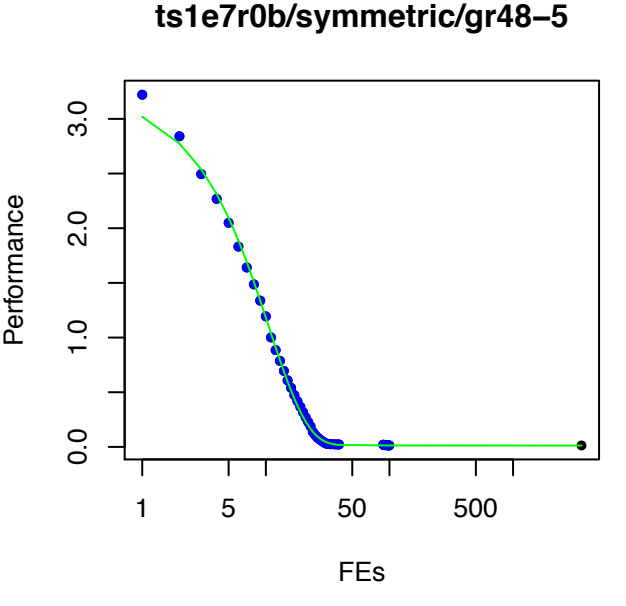
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−4
Performance
0.0
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−5
Performance
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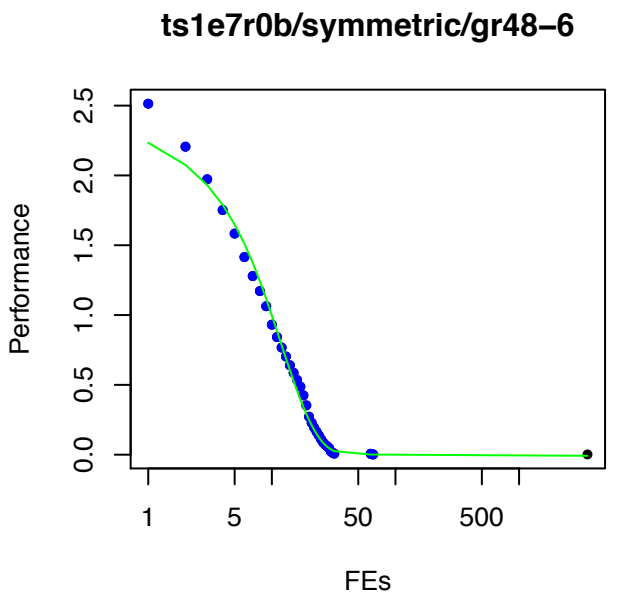
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−6
Performance
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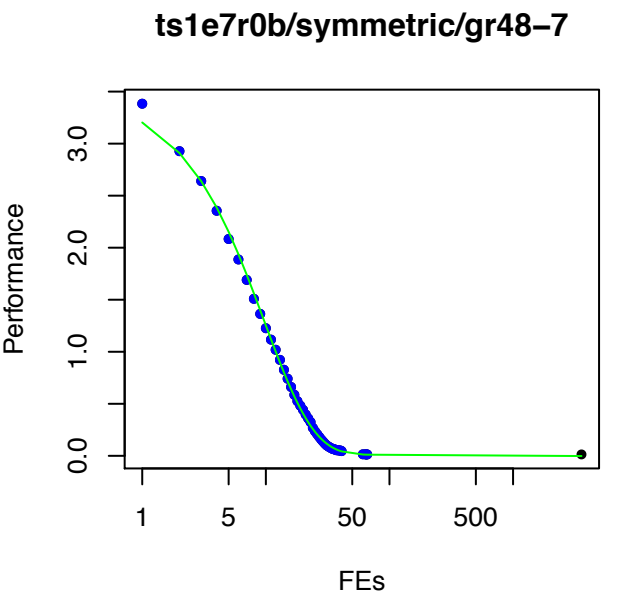
1.5
2.0
2.5
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−7
Performance
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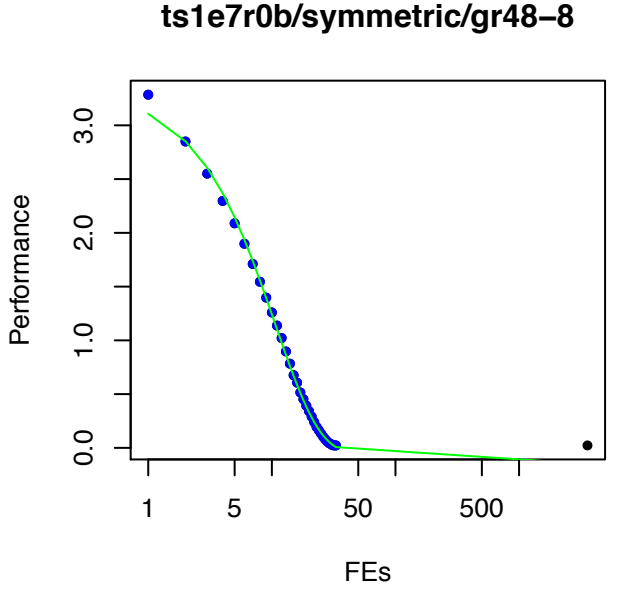
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−8
Performance
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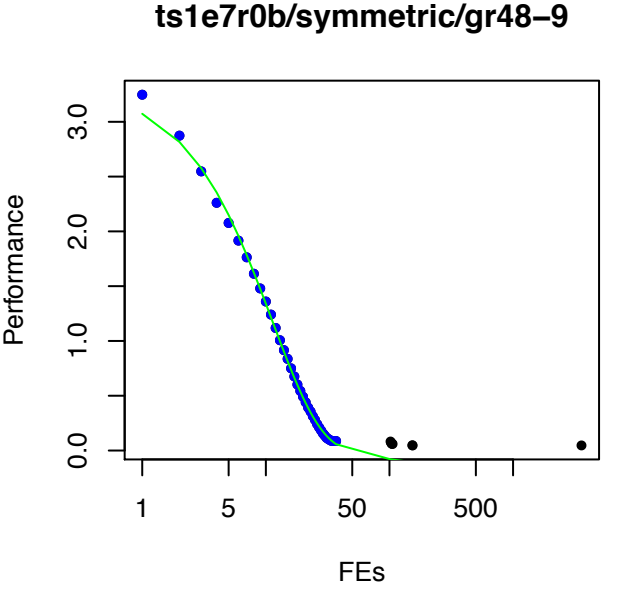
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−9
Performance
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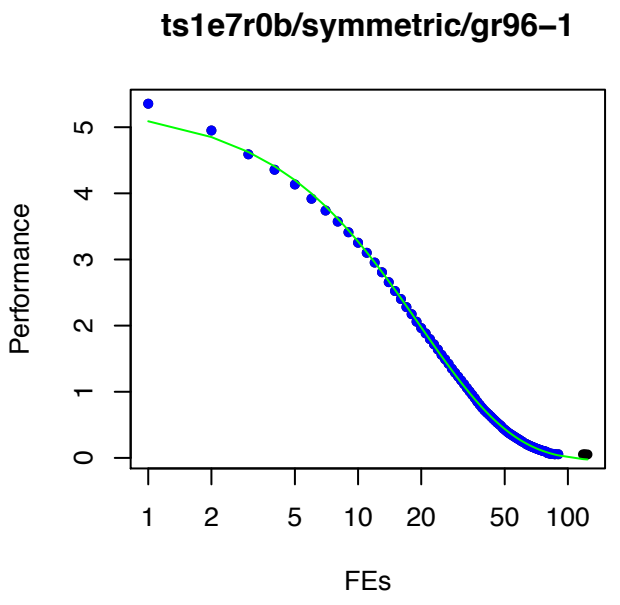
500
FEs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Performance
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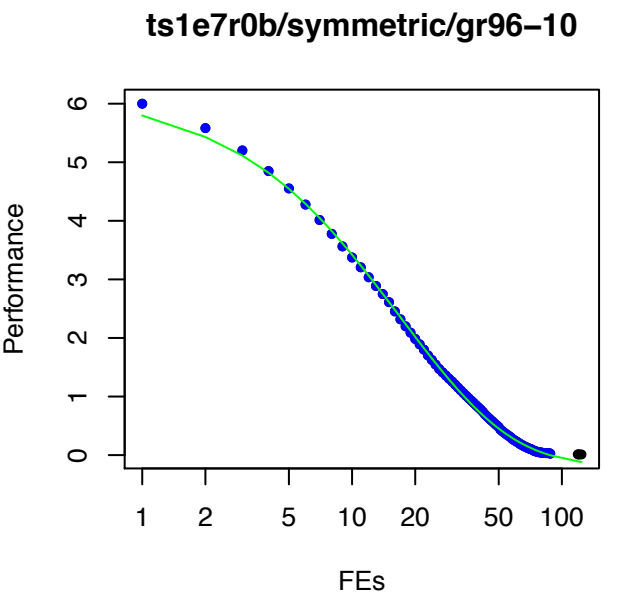
1
2
5
10
20
50
100
FEs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Performance
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6
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2
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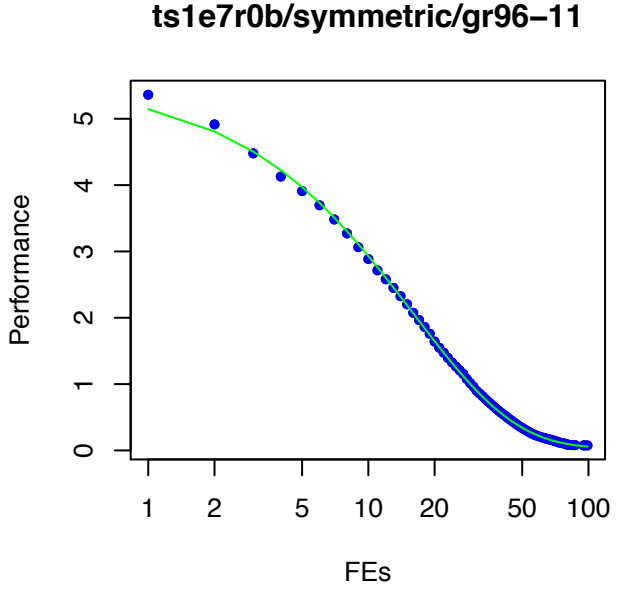
100
FEs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Performance
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2
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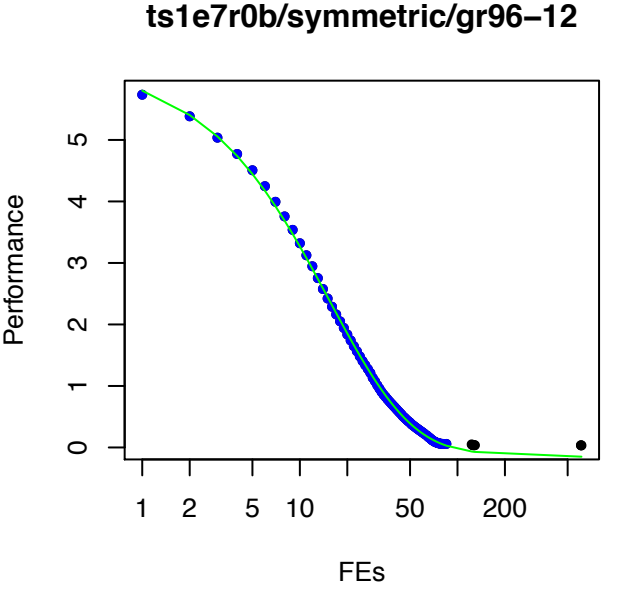
20
50
100
FEs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Performance
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10
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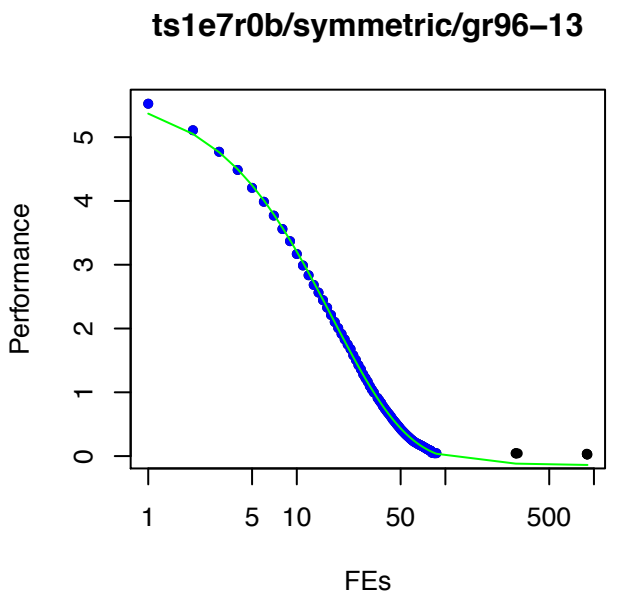
200
FEs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Performance
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4
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5
10
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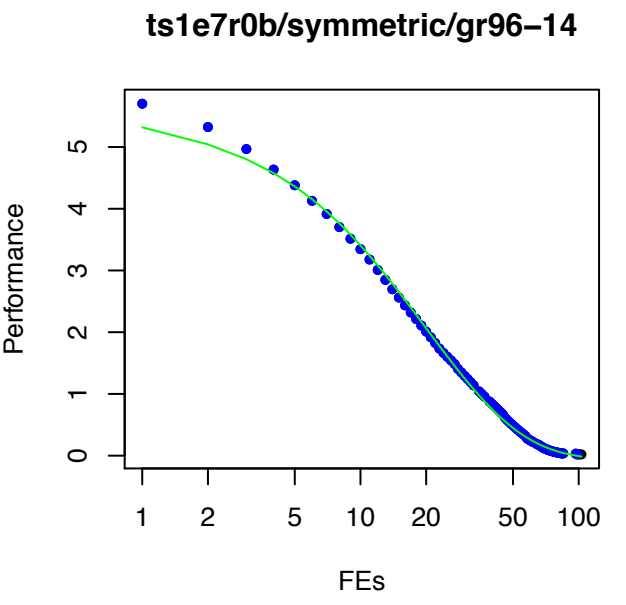
500
FEs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Performance
0
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2
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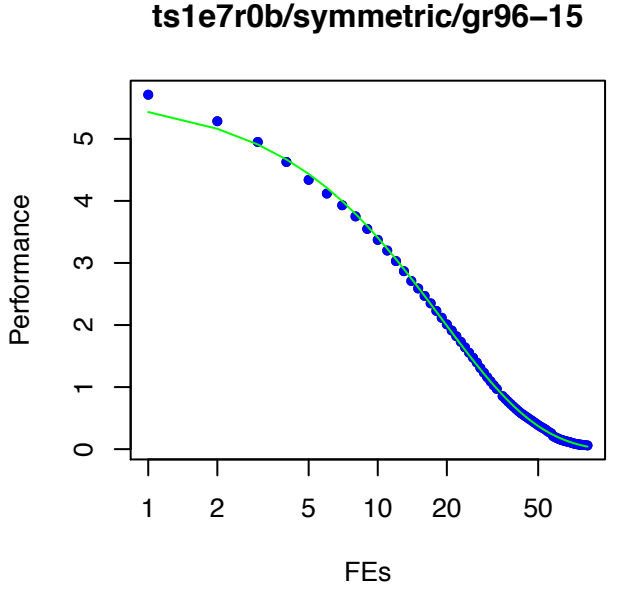
FEs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Performance
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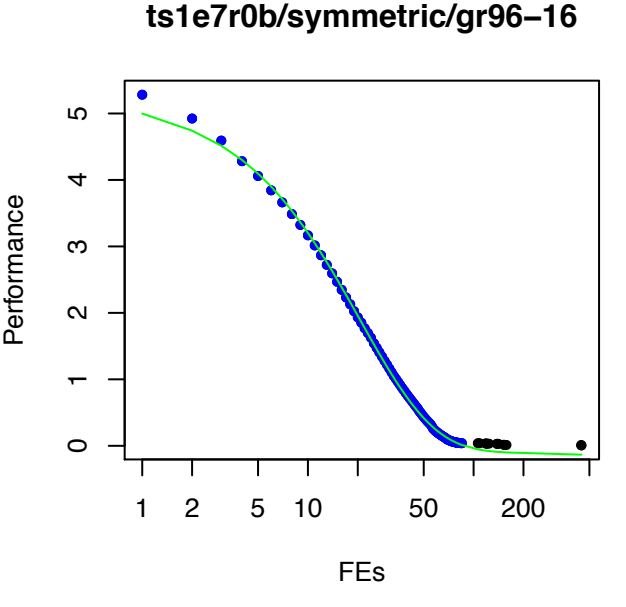
FEs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Performance
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2
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10
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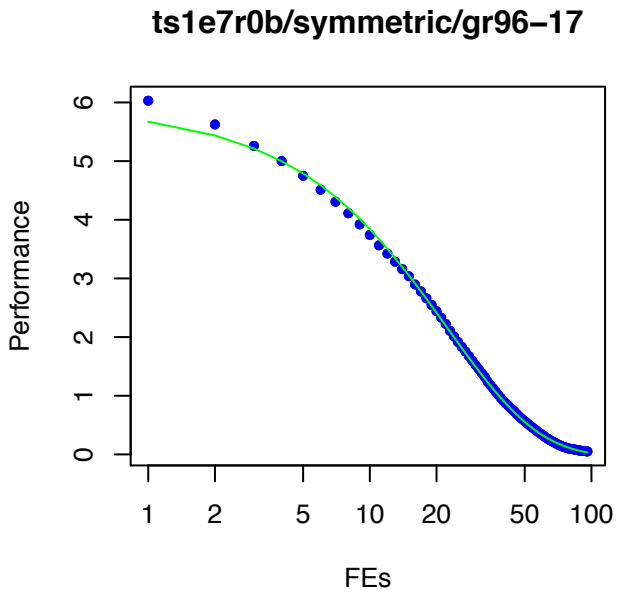
200
FEs


ts1e7r0b/symmetric/gr96−17
Performance
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4
5
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2
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20
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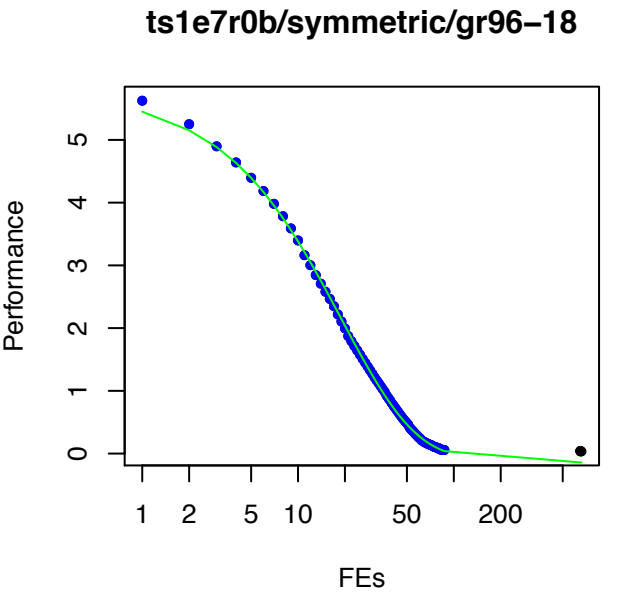
100
FEs


ts1e7r0b/symmetric/gr96−18
Performance
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3
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5
1
2
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10
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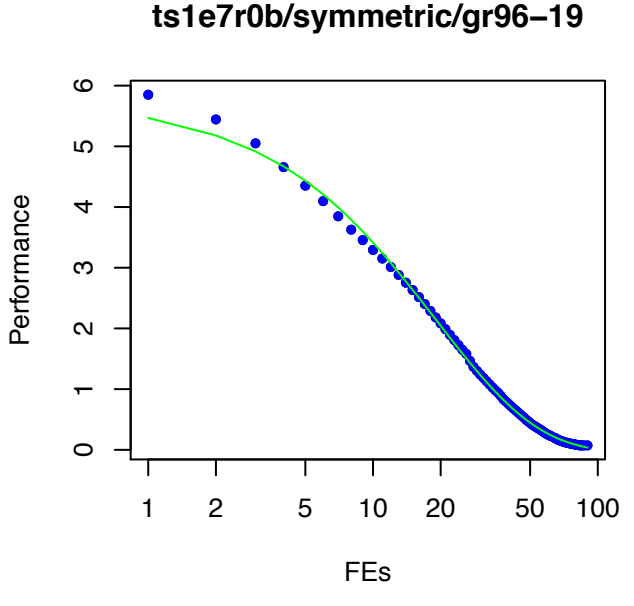
200
FEs


ts1e7r0b/symmetric/gr96−19
Performance
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1
2
3
4
5
6
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2
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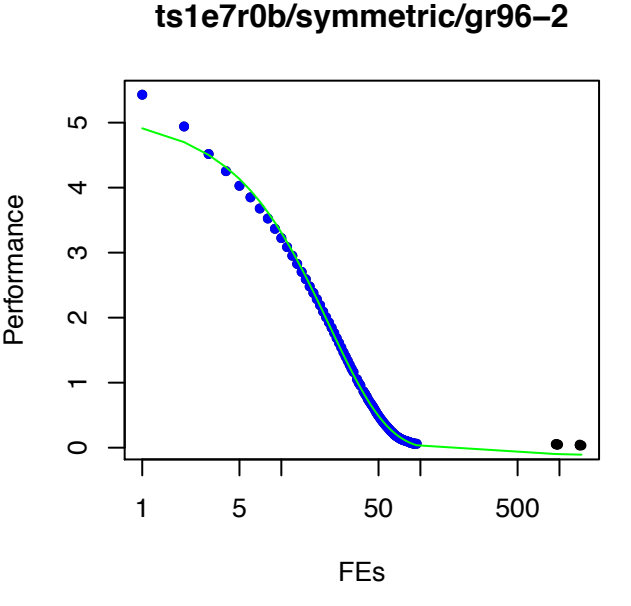
20
50
100
FEs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Performance
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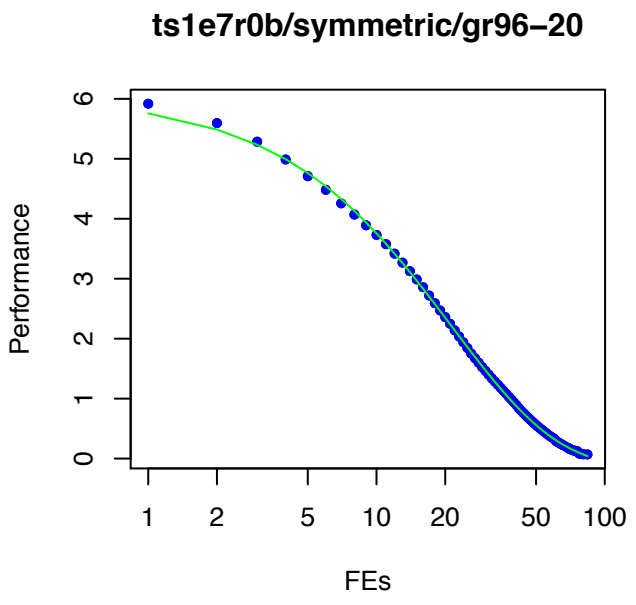
3
4
5
1
5
50
500
FEs


ts1e7r0b/symmetric/gr96−20
Performance
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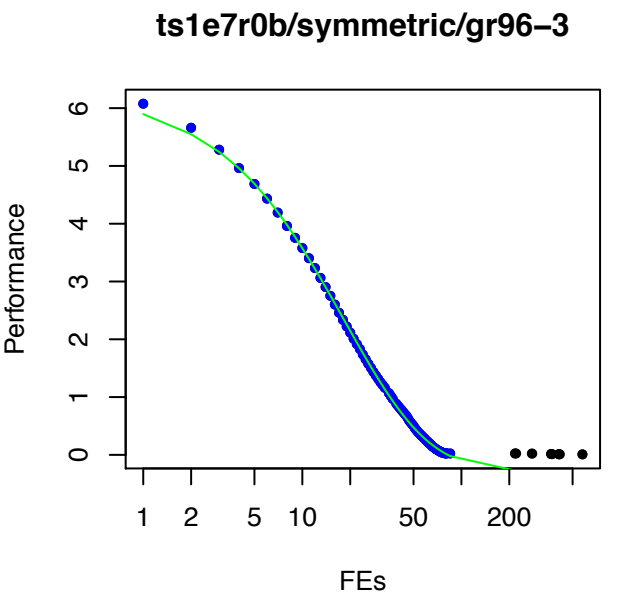
3
4
5
6
1
2
5
10
20
50
100
FEs


ts1e7r0b/symmetric/gr96−3
Performance
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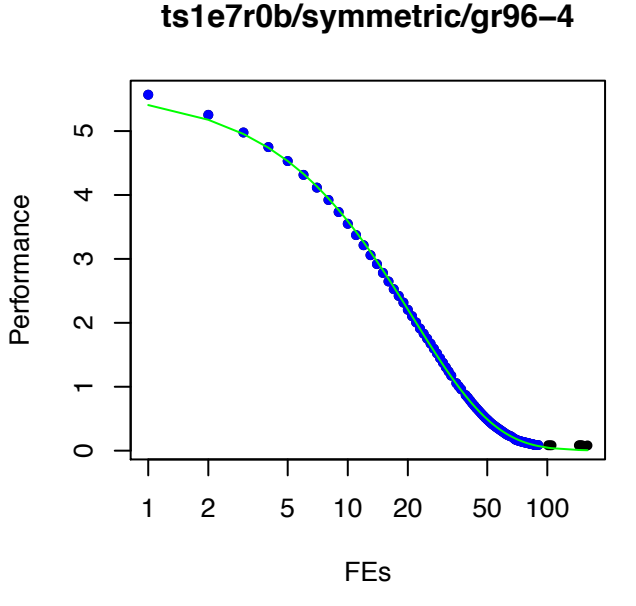
2
3
4
5
6
1
2
5
10
50
200
FEs


ts1e7r0b/symmetric/gr96−4
Performance
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20
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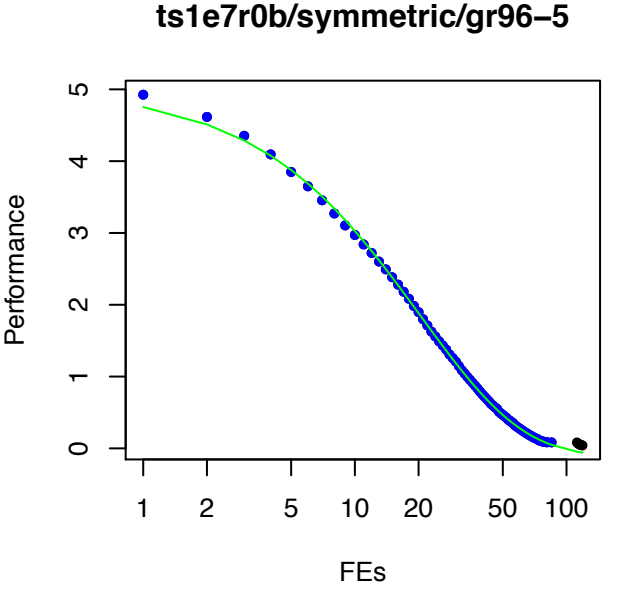
100
FEs


ts1e7r0b/symmetric/gr96−5
Performance
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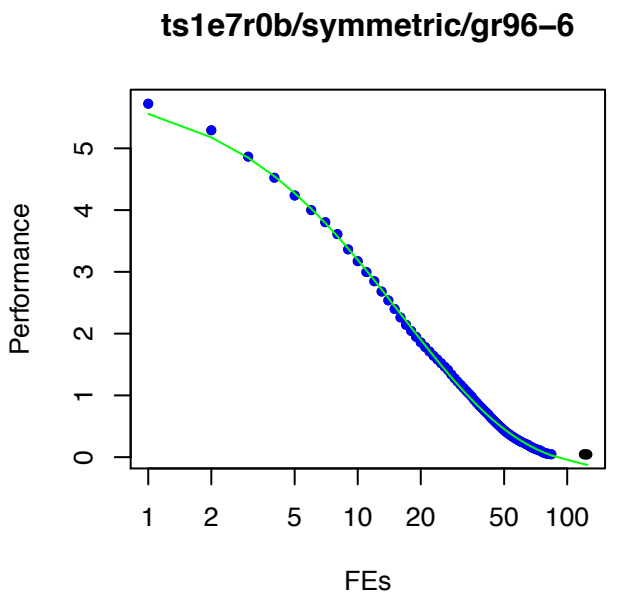
FEs


ts1e7r0b/symmetric/gr96−6
Performance
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4
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1
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20
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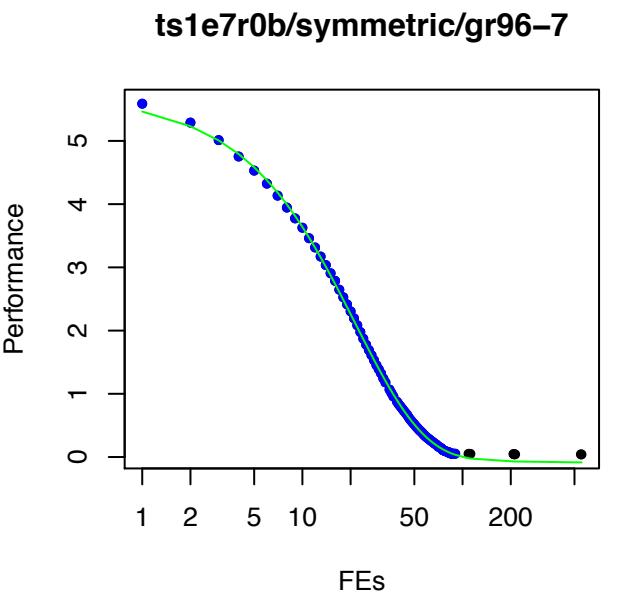
FEs


ts1e7r0b/symmetric/gr96−7
Performance
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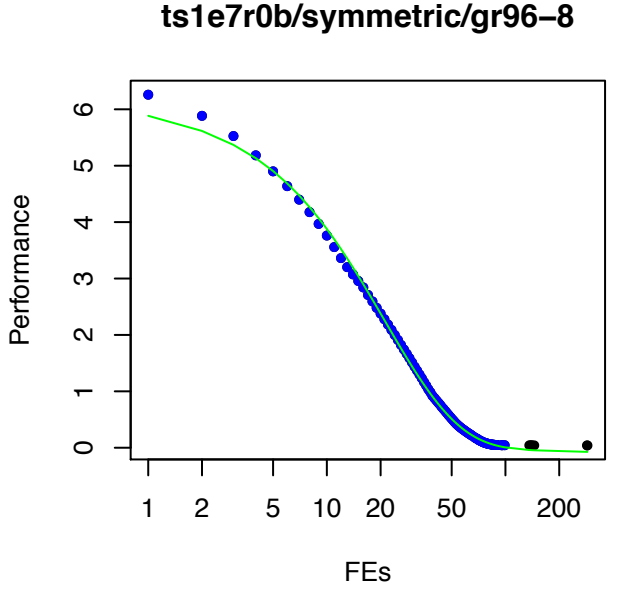
FEs


ts1e7r0b/symmetric/gr96−8
Performance
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20
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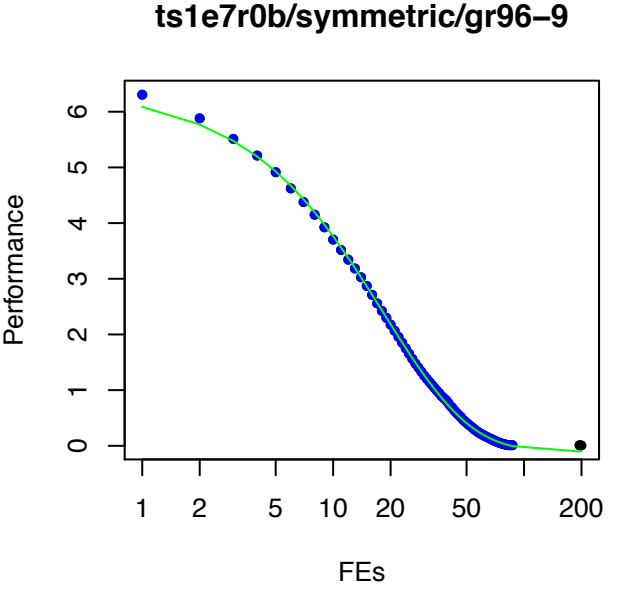
200
FEs


ts1e7r0b/symmetric/gr96−9
Performance
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6
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2
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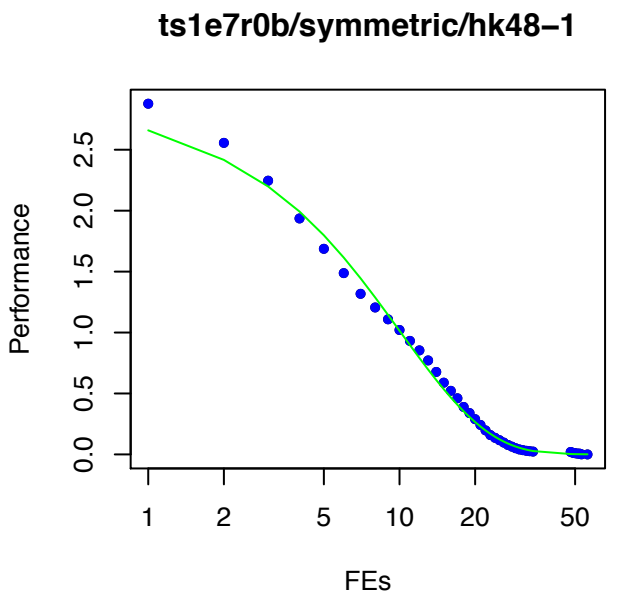
200
FEs


ts1e7r0b/symmetric/hk48−1
Performance
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1.0
1.5
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1
2
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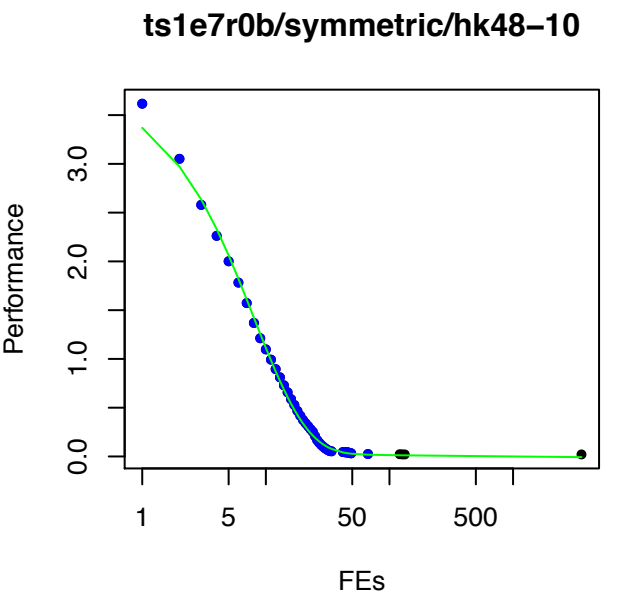
10
20
50
FEs


ts1e7r0b/symmetric/hk48−10
Performance
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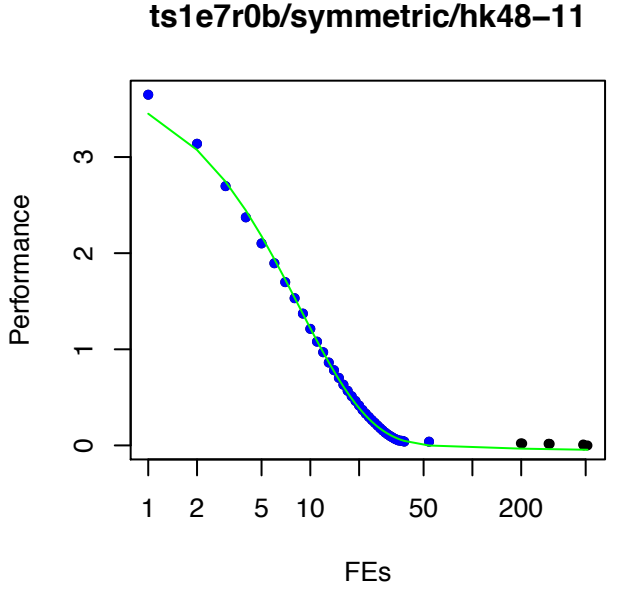
500
FEs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Performance
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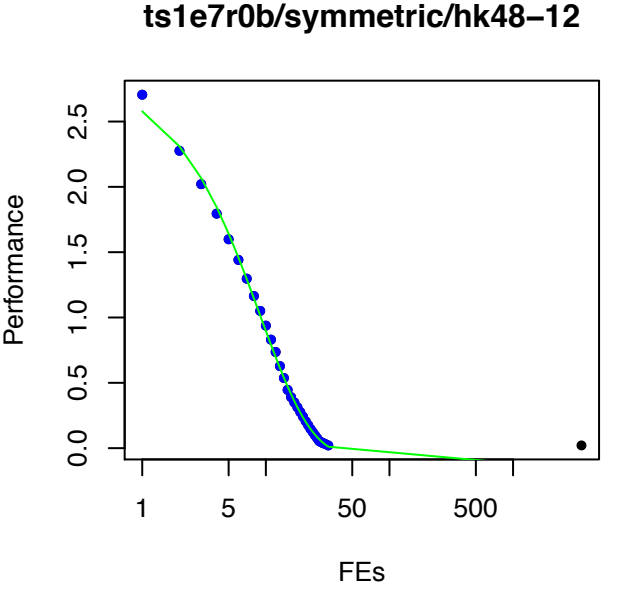
200
FEs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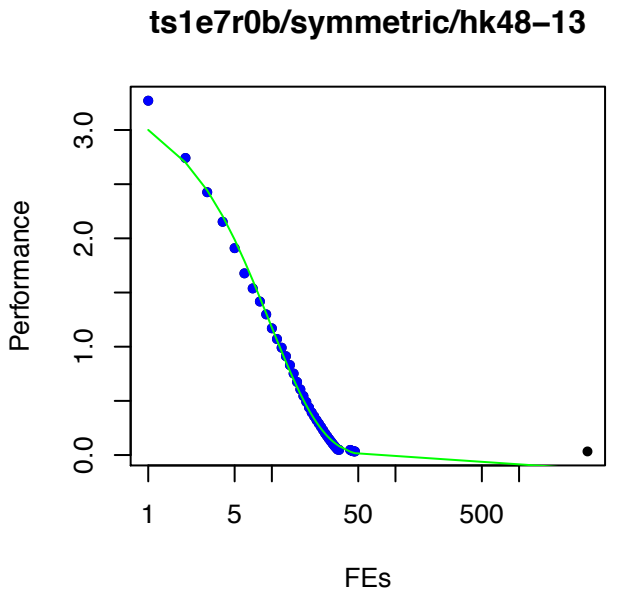
FEs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Performance
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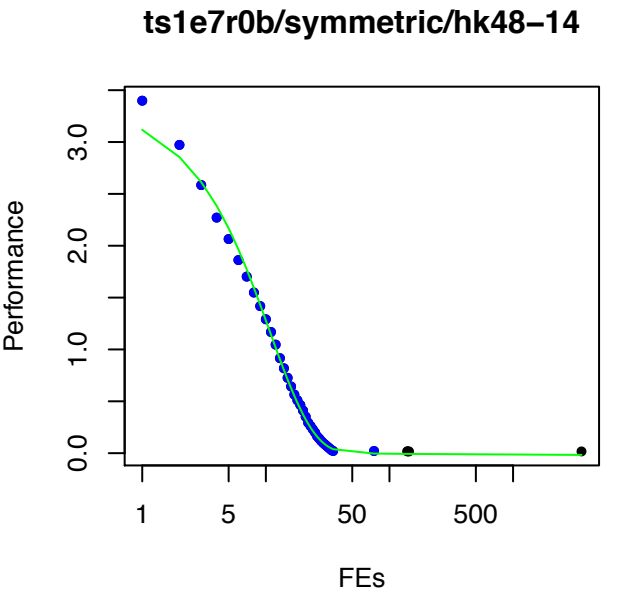
500
FEs


ts1e7r0b/symmetric/hk48−14
Performance
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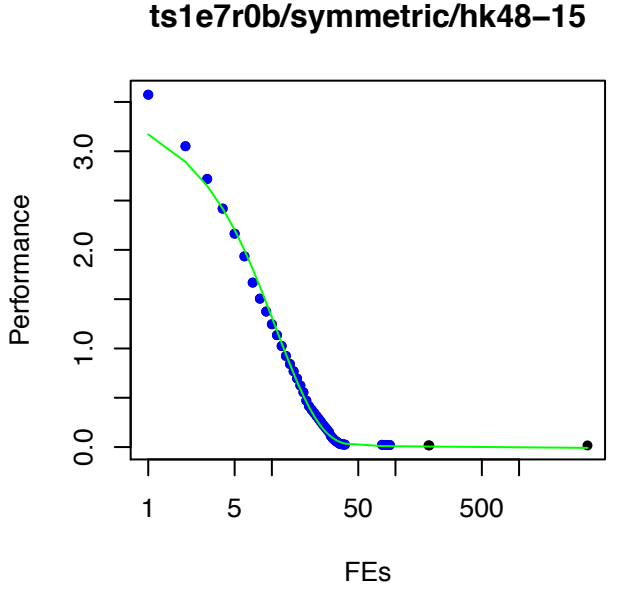
1
5
50
500
FEs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Performance
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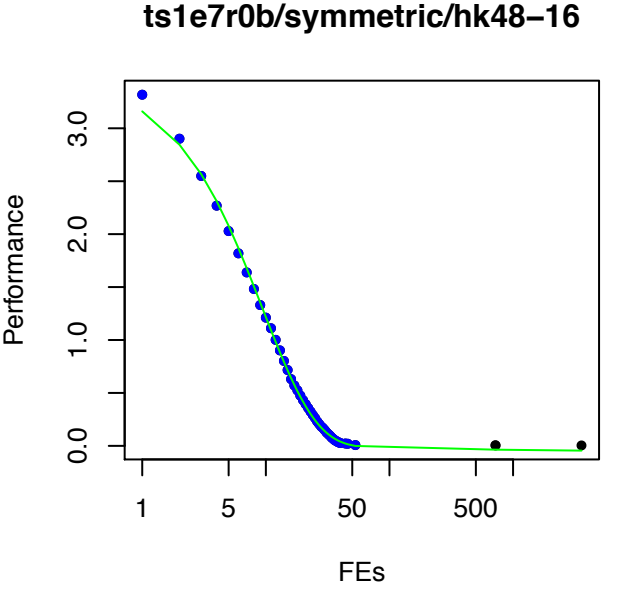
50
500
FEs


ts1e7r0b/symmetric/hk48−16
Performance
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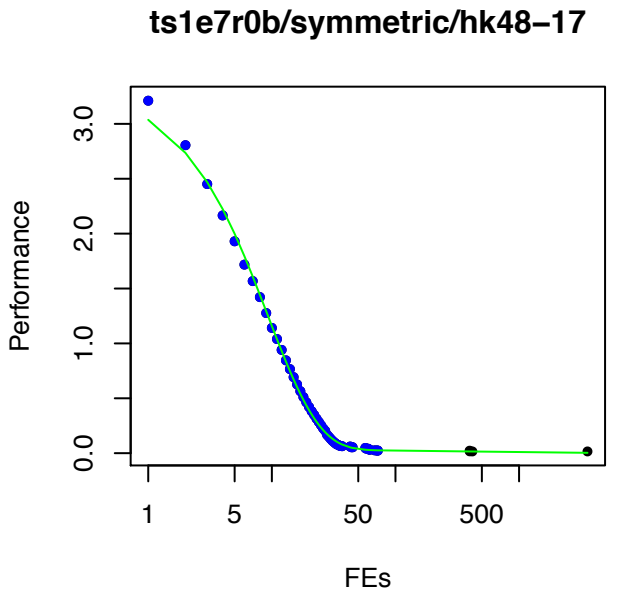
50
500
FEs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Performance
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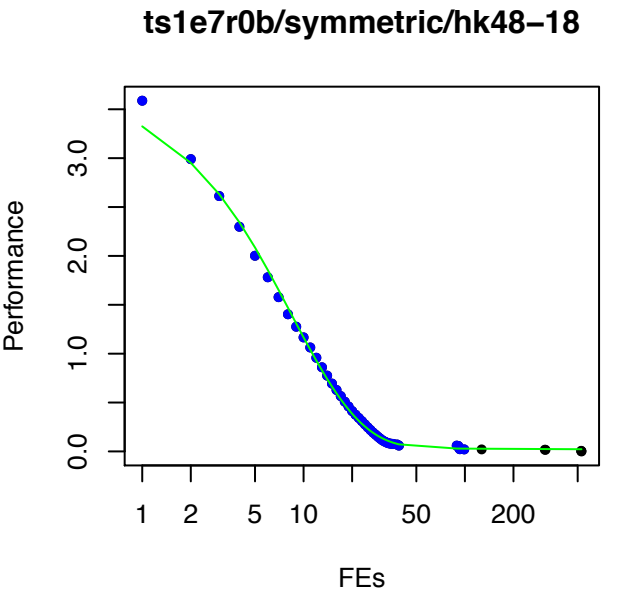
500
FEs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Performance
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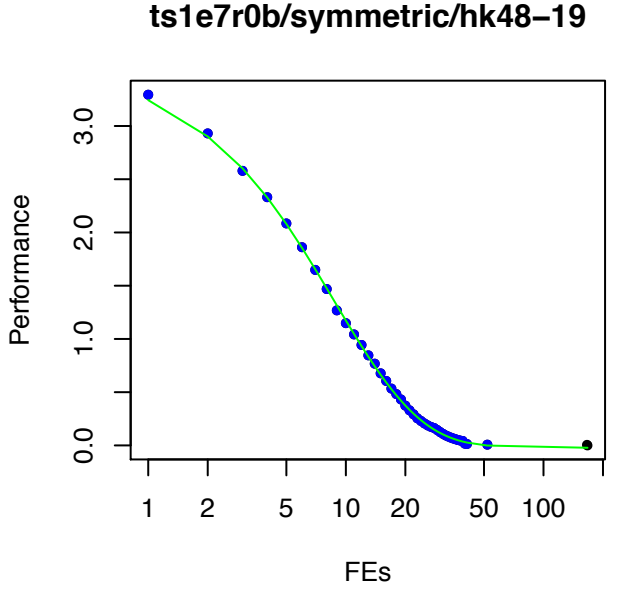
200
FEs


ts1e7r0b/symmetric/hk48−19
Performance
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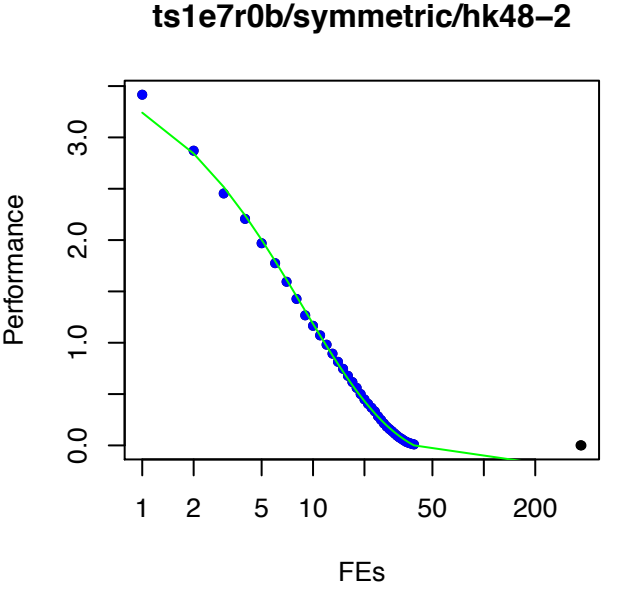
2
5
10
20
50
100
FEs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Performance
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1
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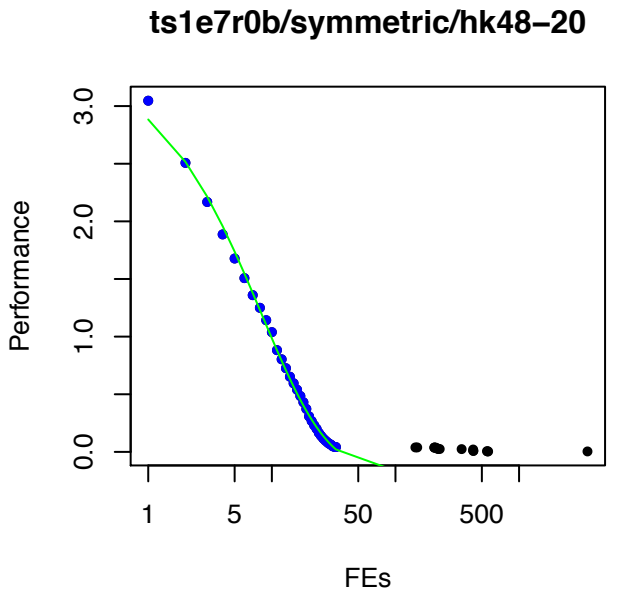
5
10
50
200
FEs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Performance
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3.0
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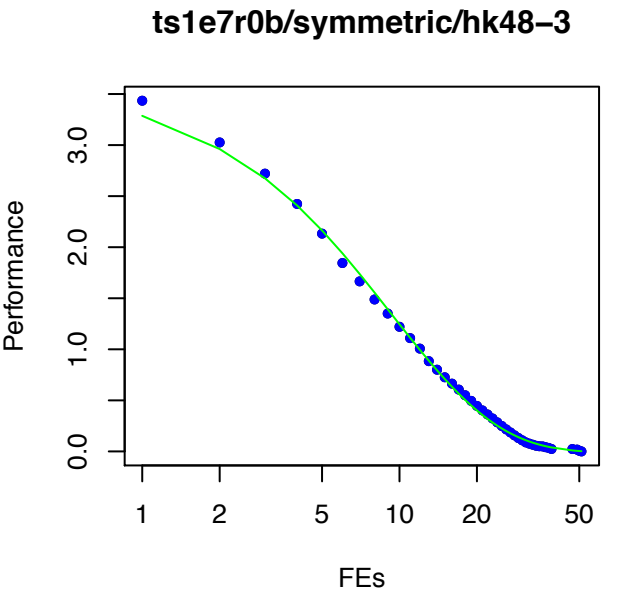
50
500
FEs


ts1e7r0b/symmetric/hk48−3
Performance
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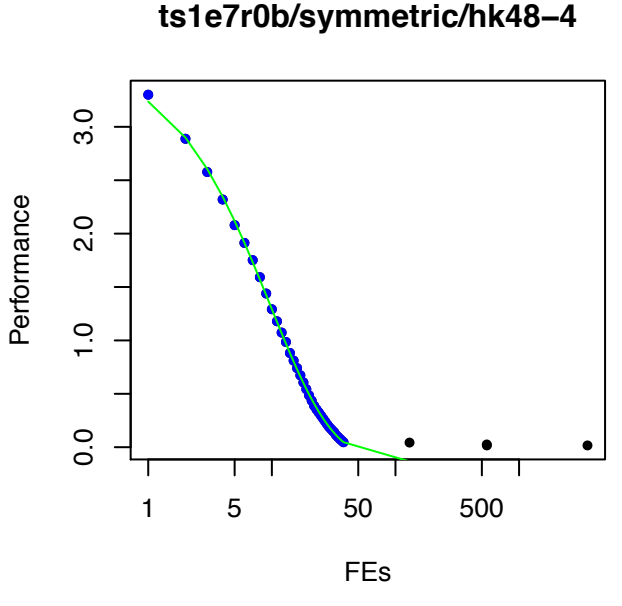
2.0
3.0
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/hk48−4
Performance
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2.0
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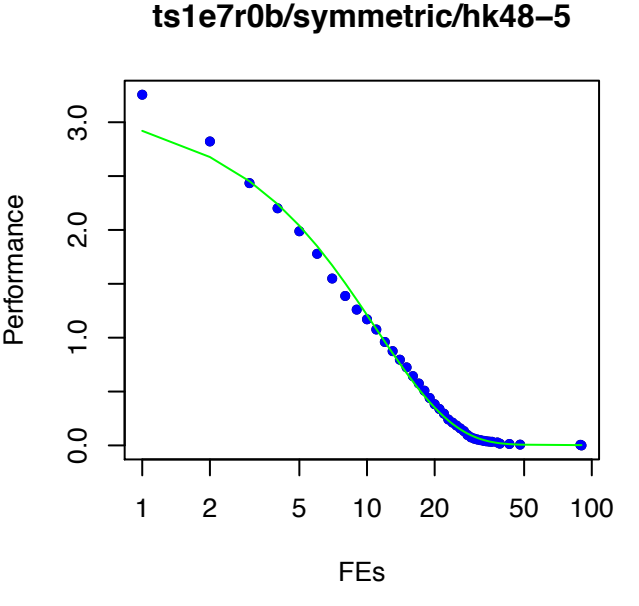
50
500
FEs


ts1e7r0b/symmetric/hk48−5
Performance
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2
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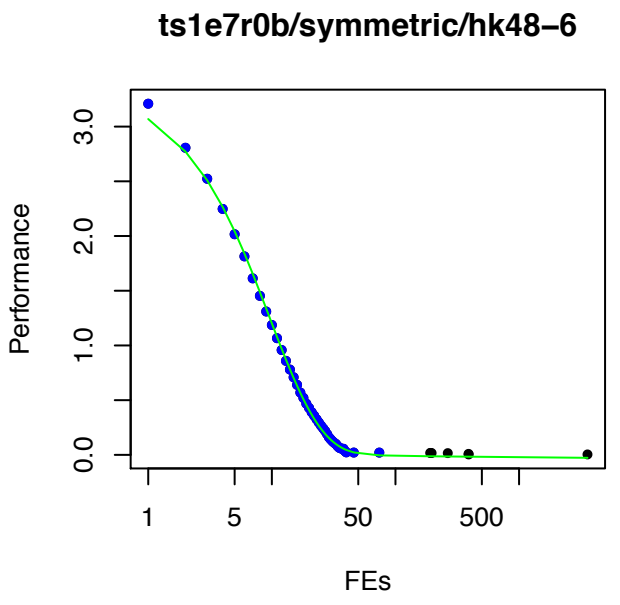
20
50
100
FEs


ts1e7r0b/symmetric/hk48−6
Performance
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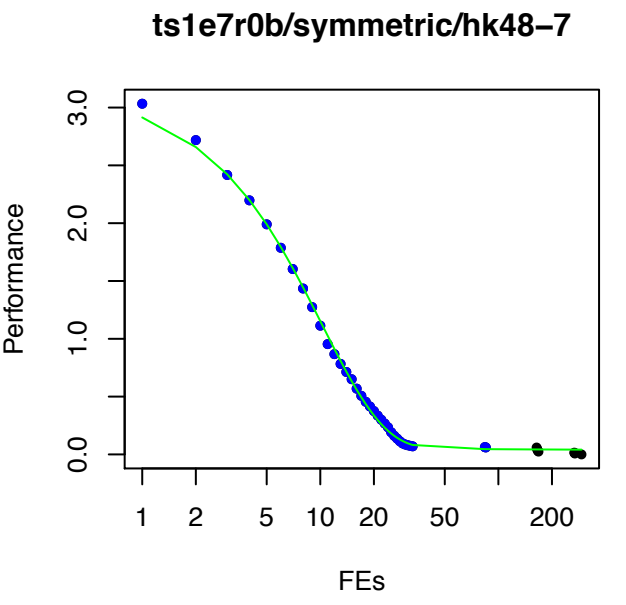
500
FEs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Performance
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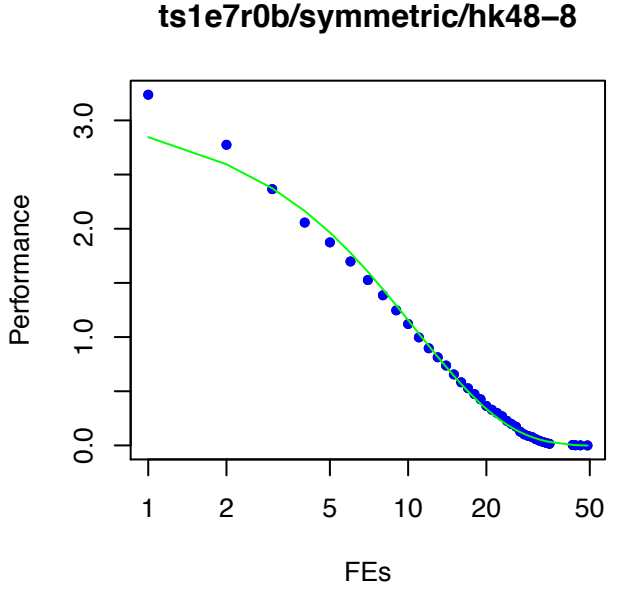
FEs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Performance
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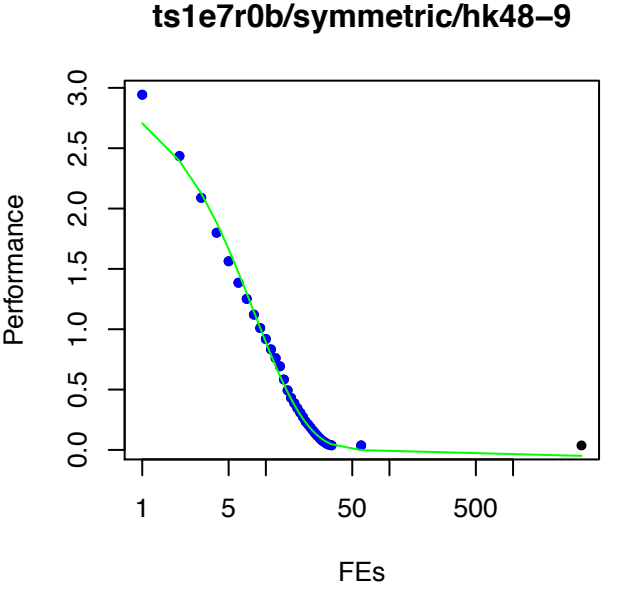
FEs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Performance
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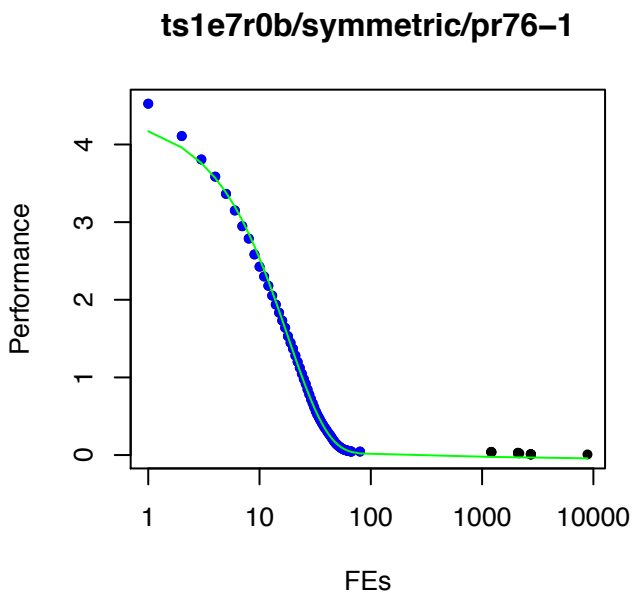
FEs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Performance
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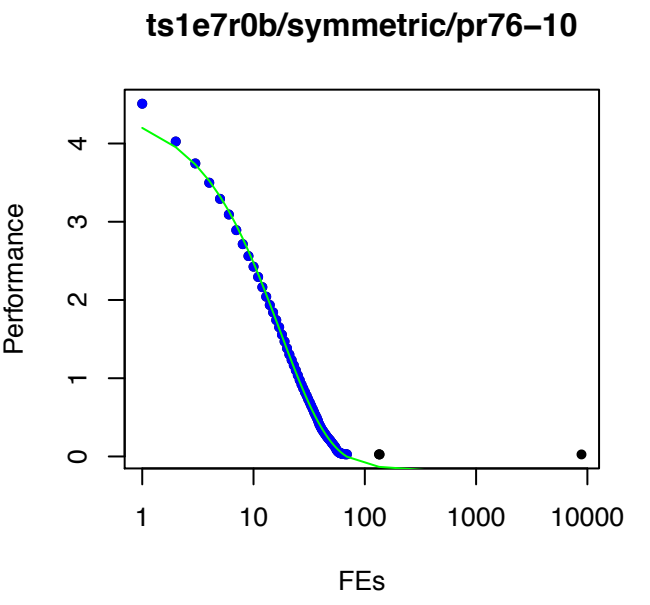
10000
FEs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Performance
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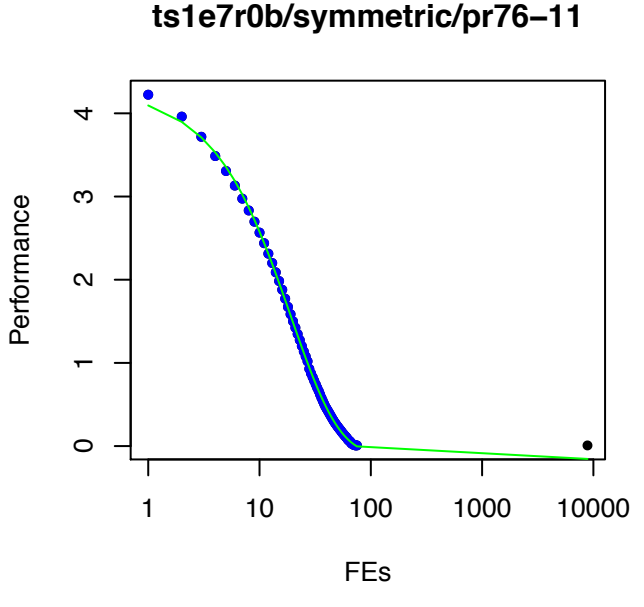
10000
FEs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Performance
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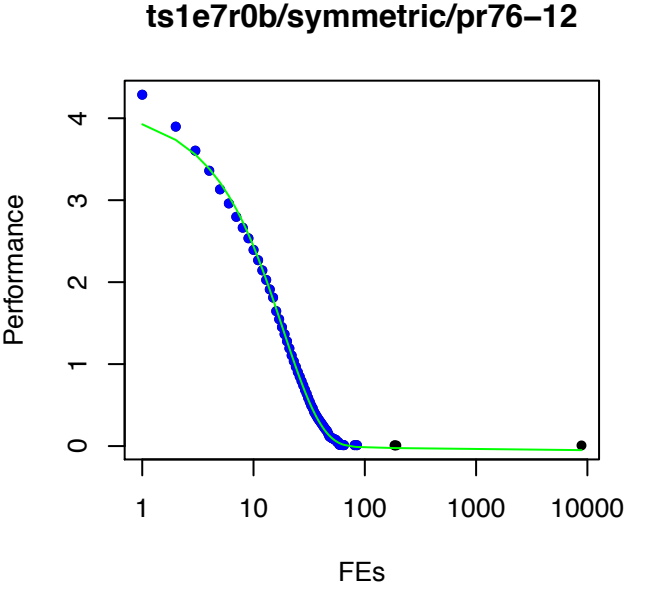
10000
FEs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Performance
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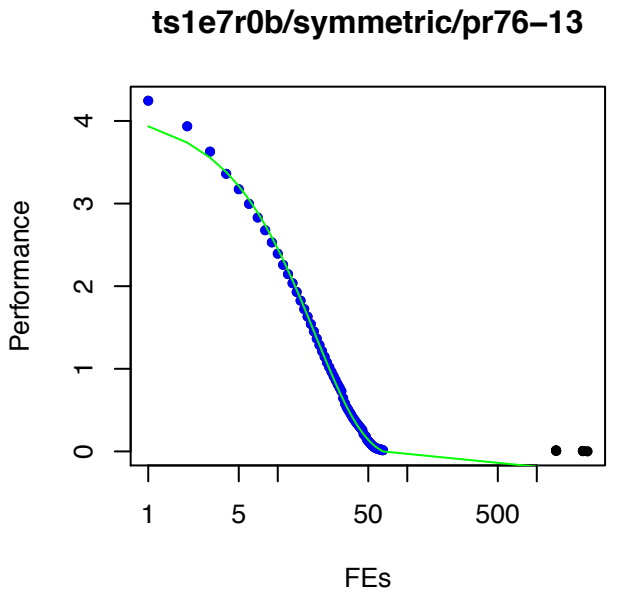
FEs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Performance
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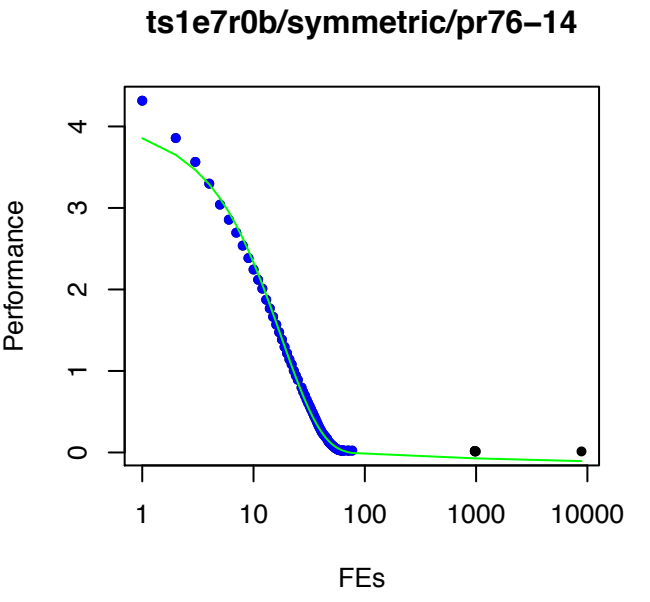
500
FEs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Performance
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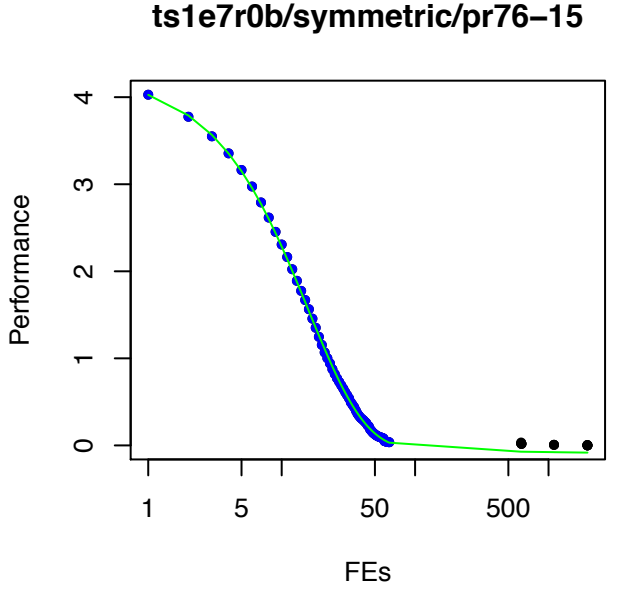
10000
FEs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Performance
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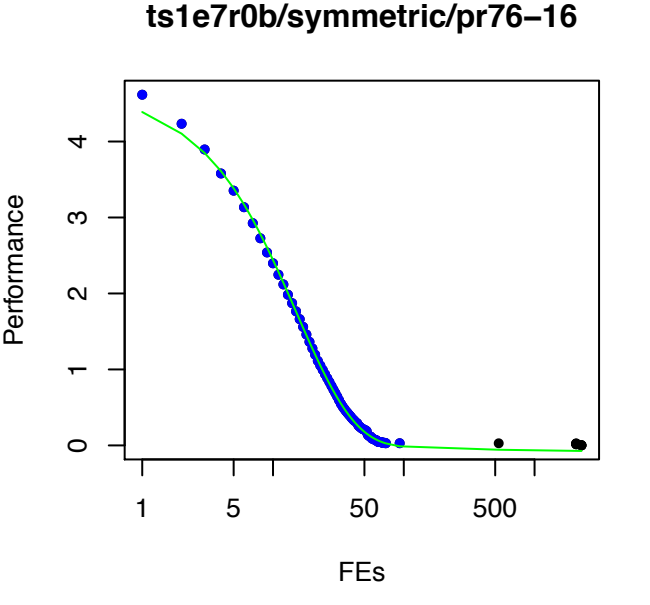
FEs


ts1e7r0b/symmetric/pr76−16
Performance
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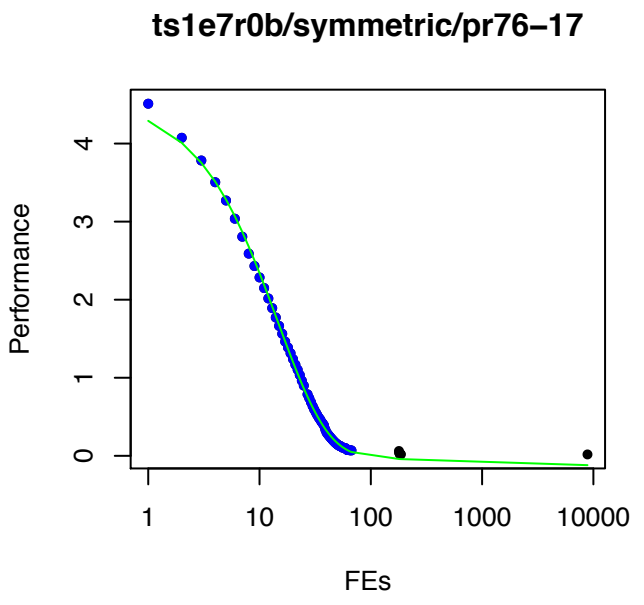
FEs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Performance
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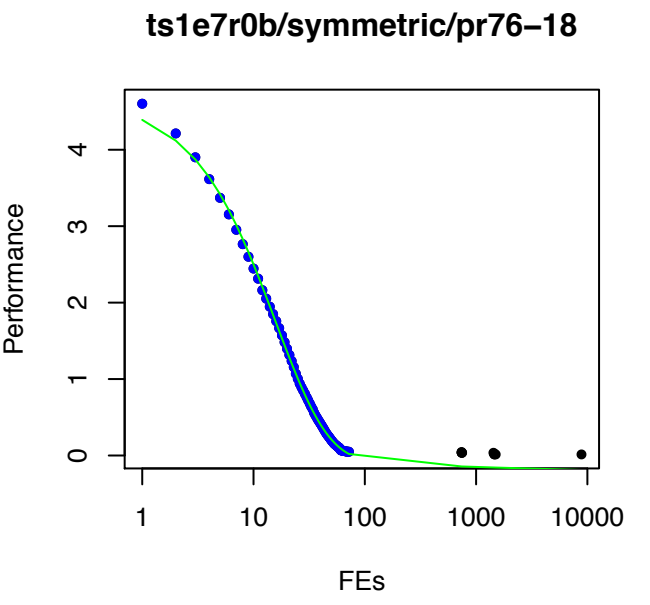
FEs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Performance
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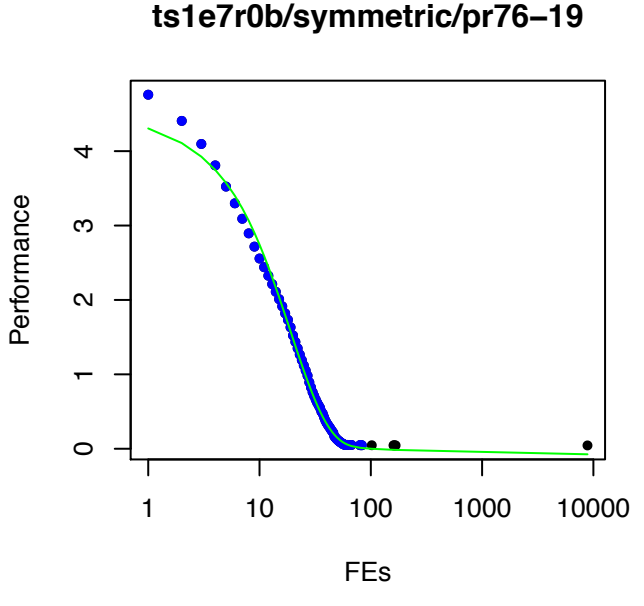
10000
FEs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Performance
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3
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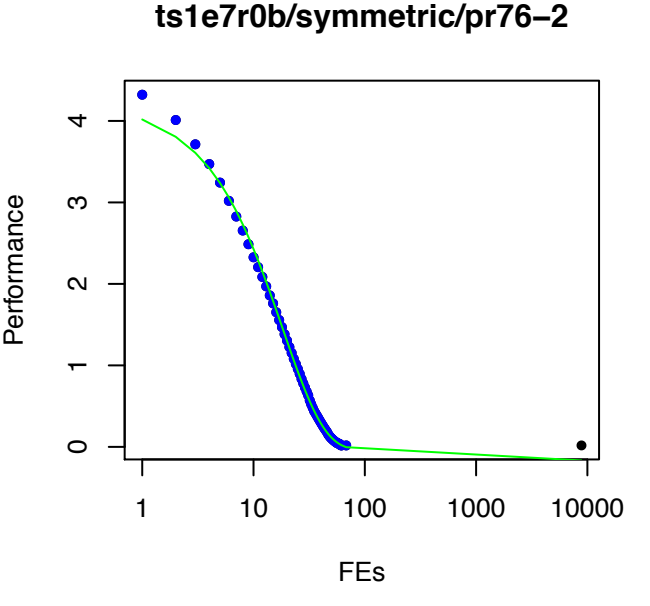
1000
10000
FEs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Performance
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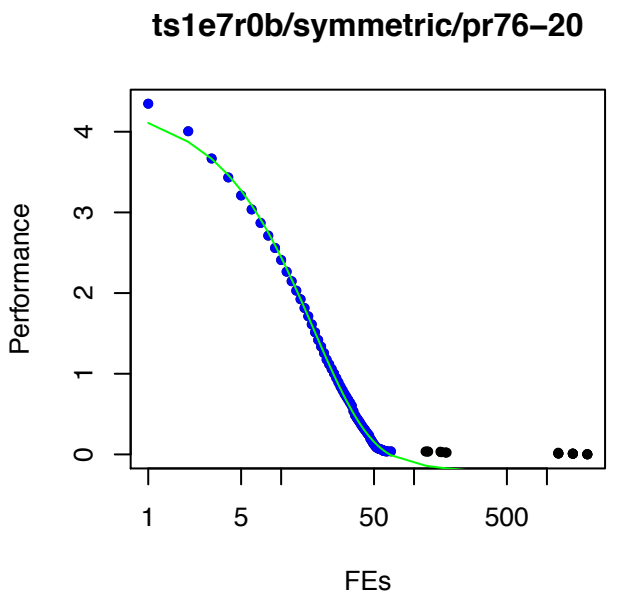
FEs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Performance
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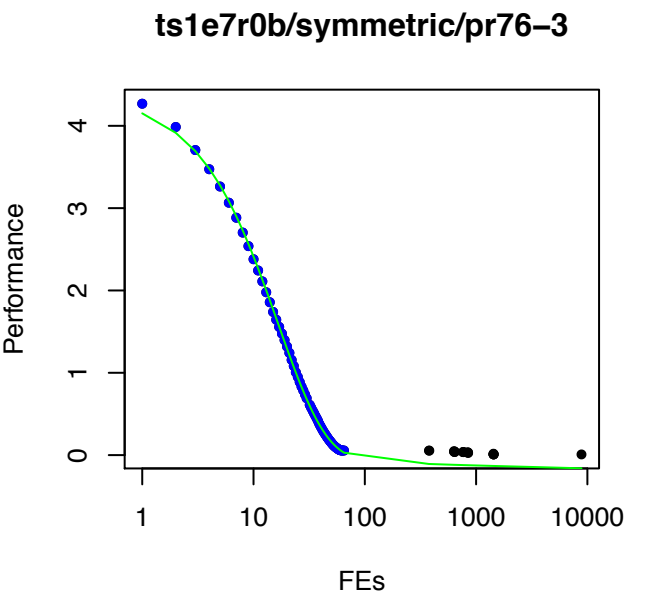
500
FEs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Performance
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3
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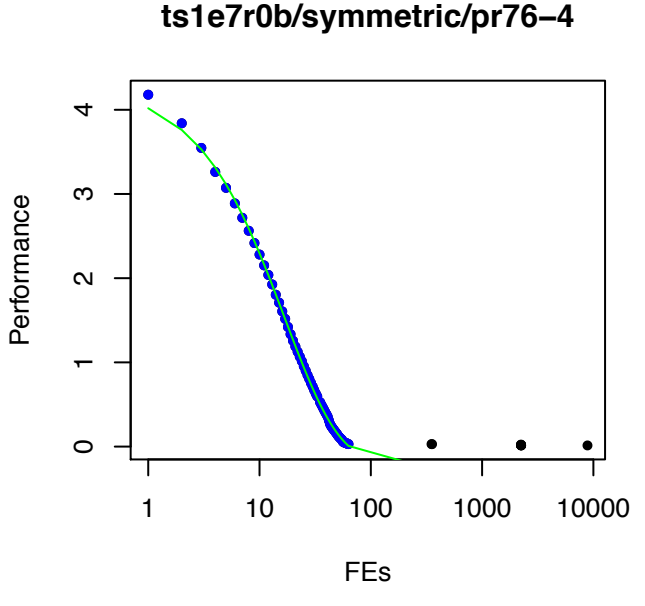
100
1000
10000
FEs


ts1e7r0b/symmetric/pr76−4
Performance
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2
3
4
1
10
100
1000
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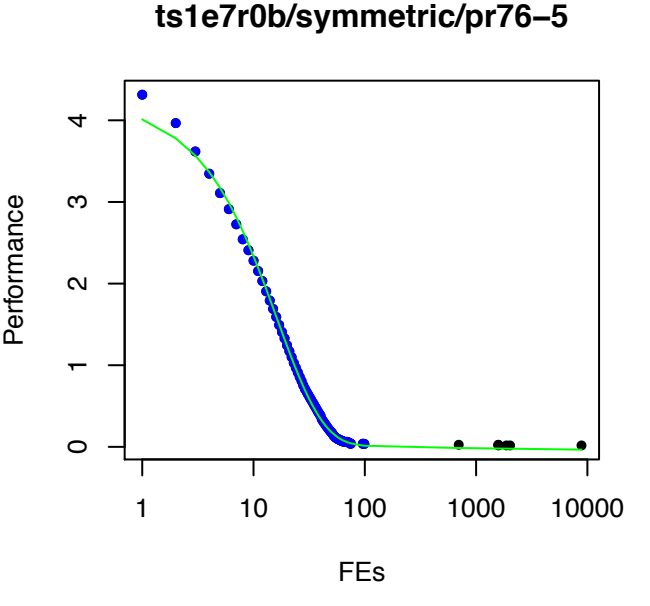
FEs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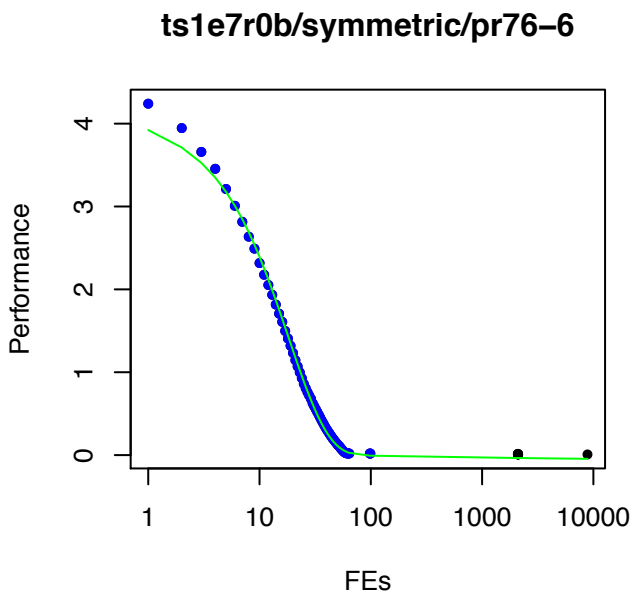
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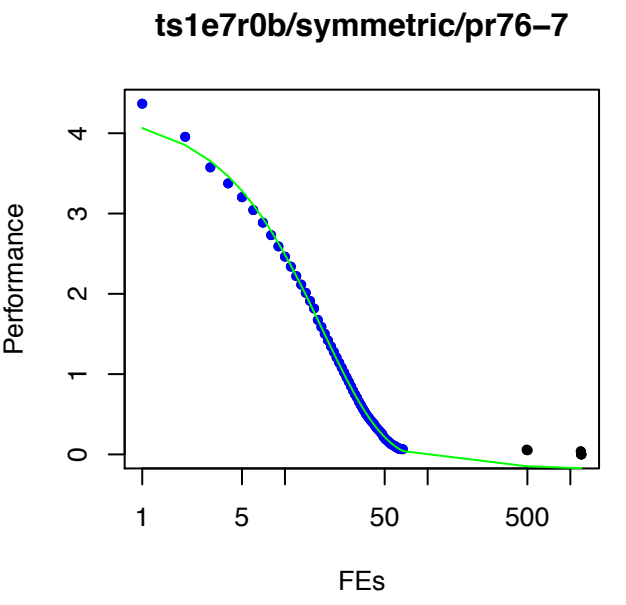
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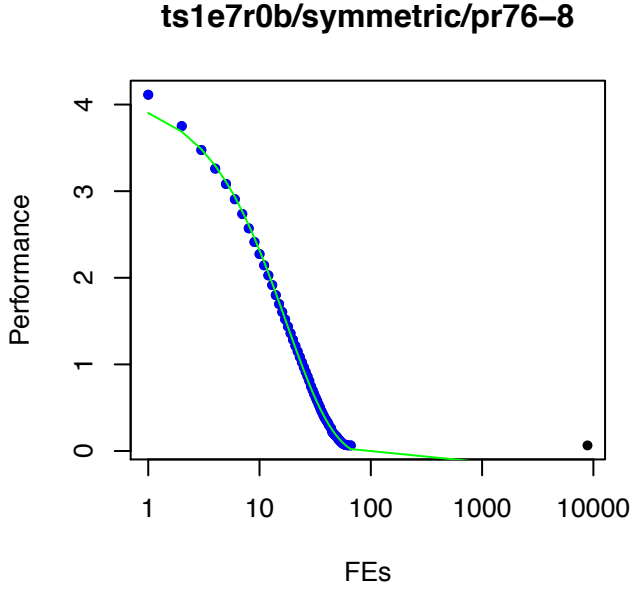
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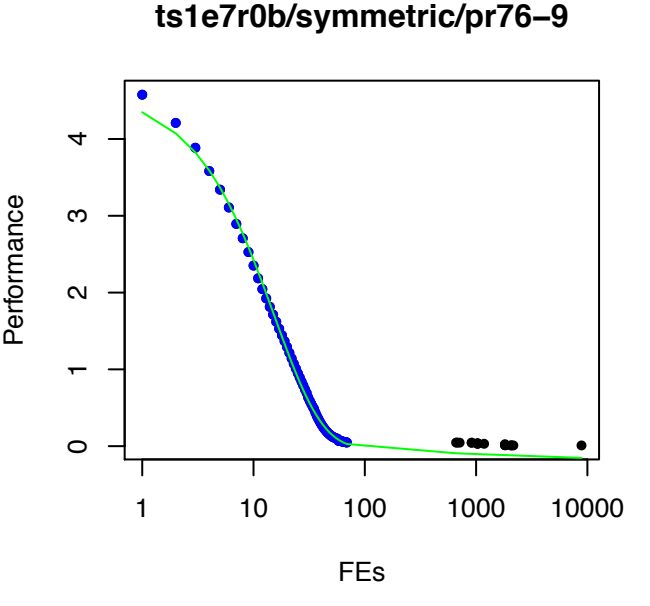
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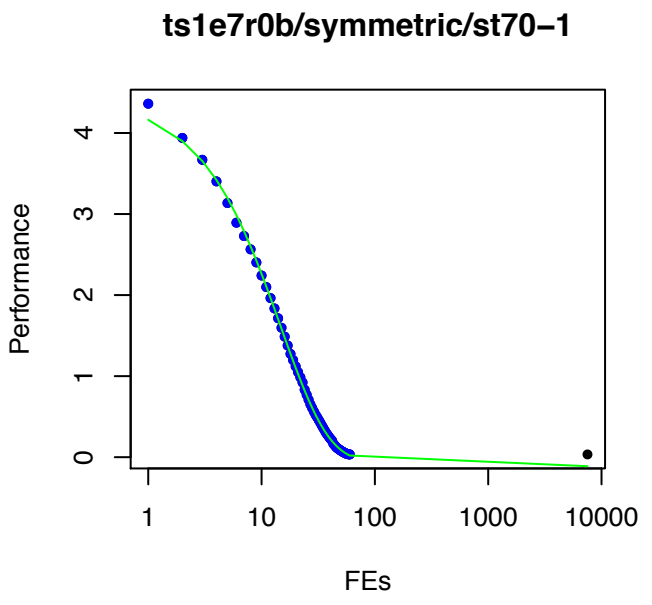
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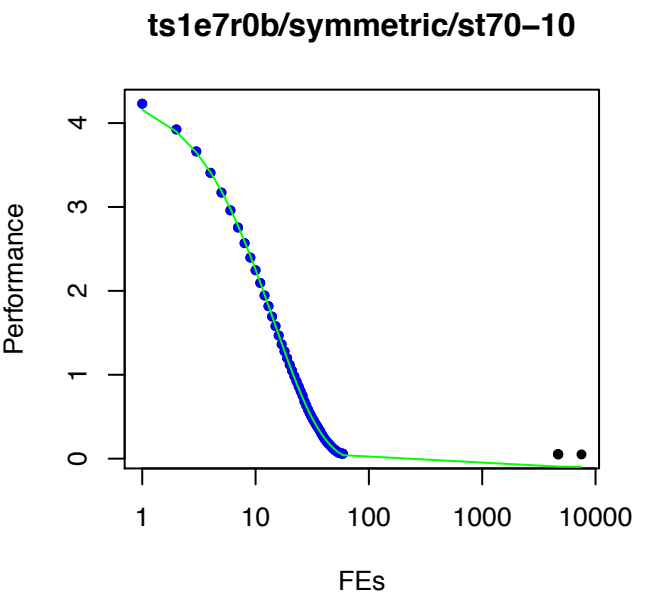
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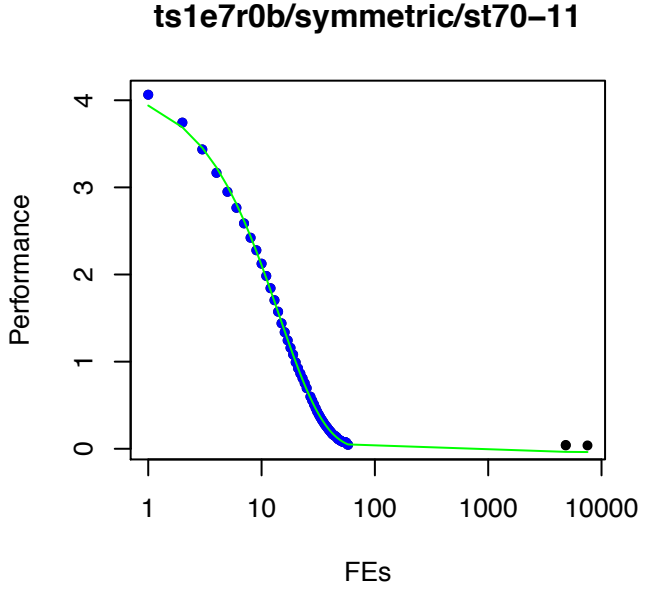
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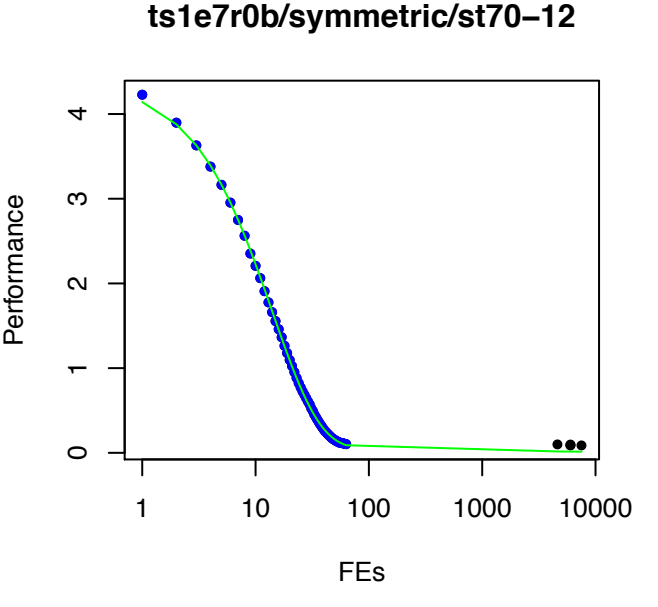
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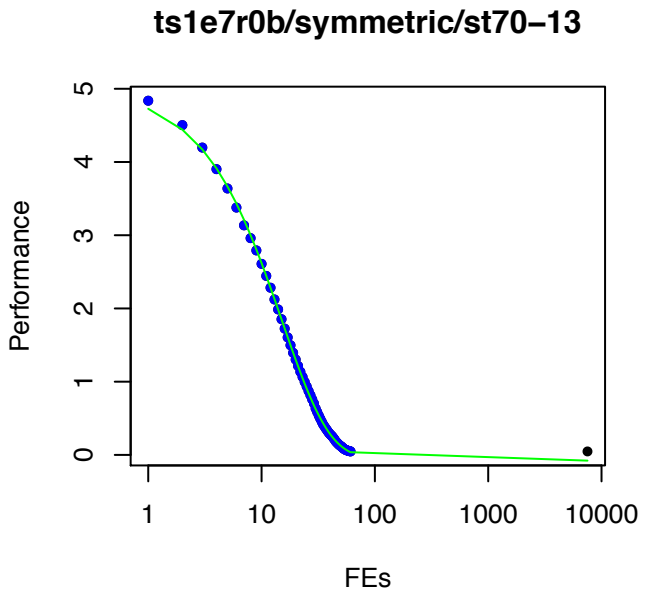
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Performance
FEs
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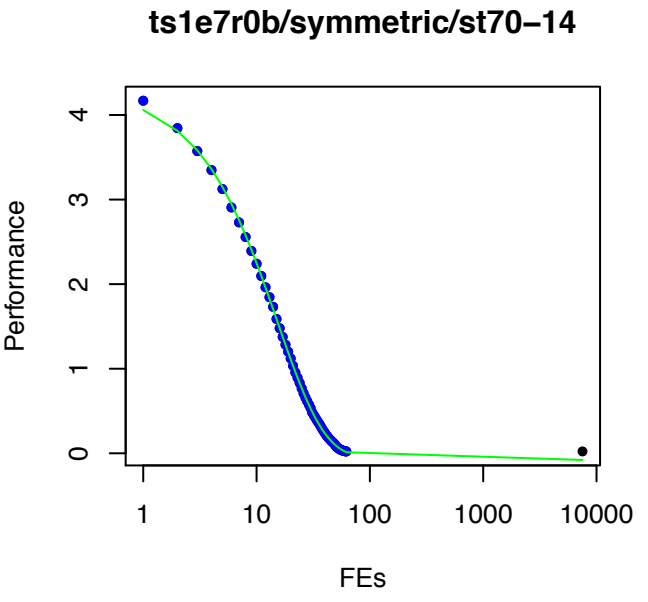
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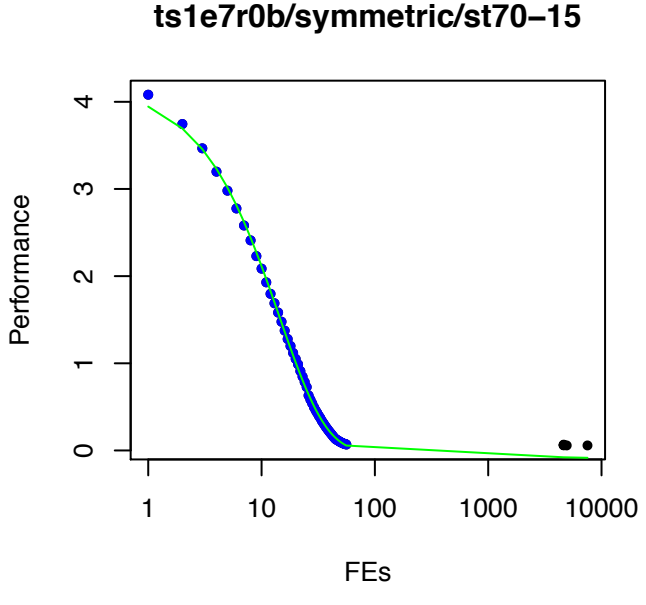
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Performance
FEs
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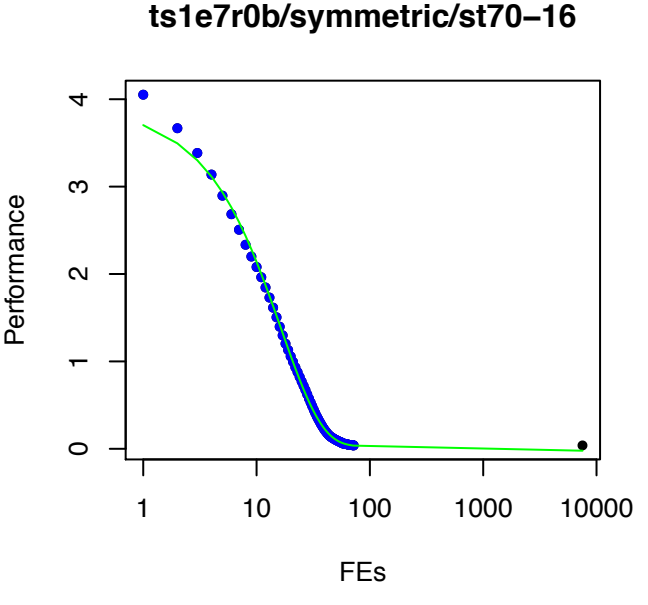
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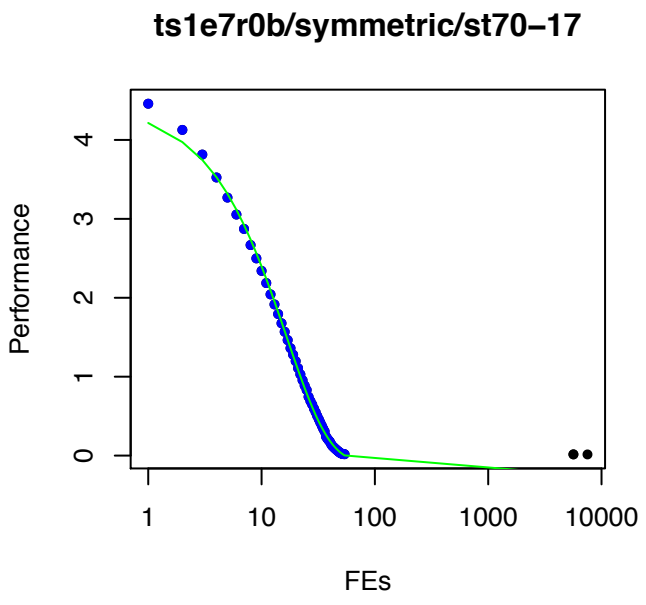
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Performance
FEs
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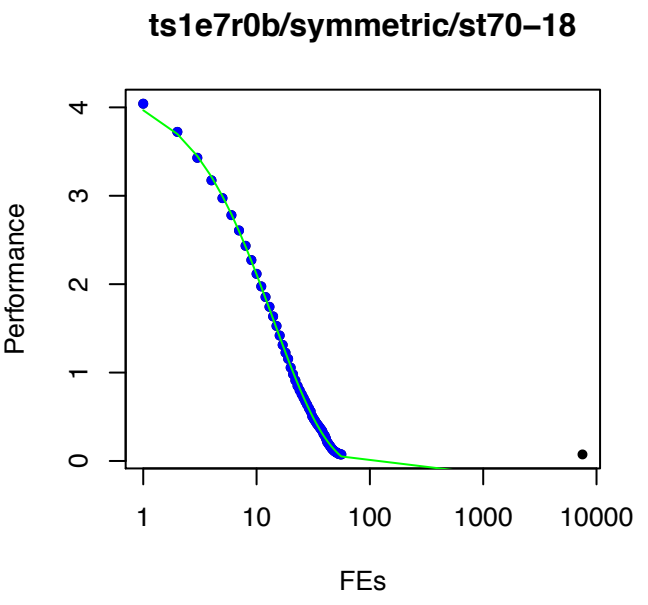
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Performance
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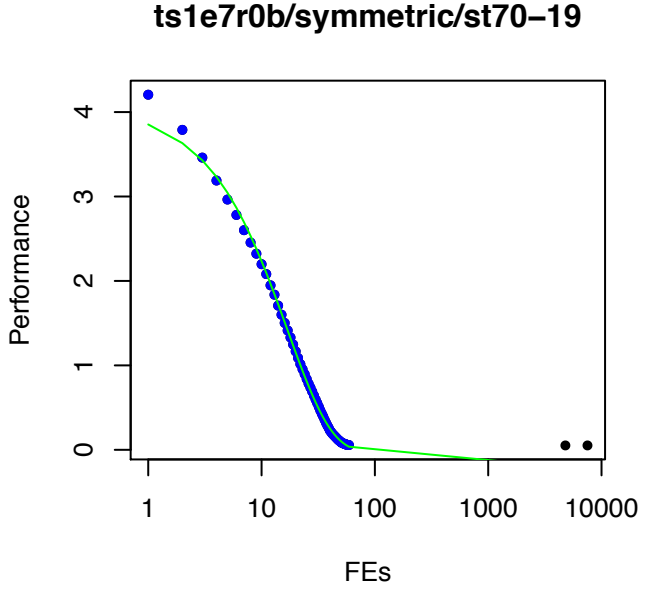
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Performance
FEs
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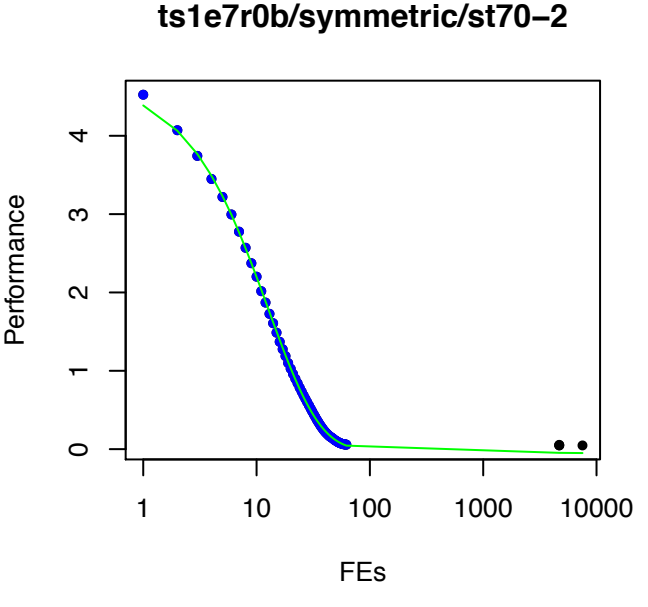
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Performance
FEs
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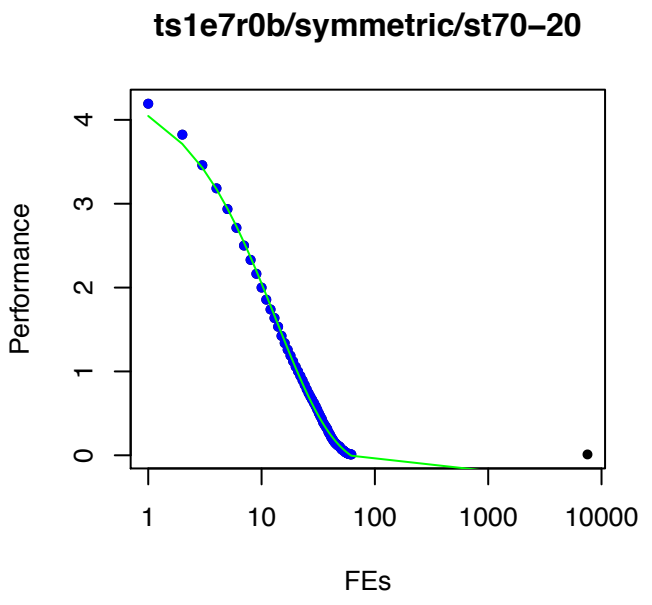
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Performance
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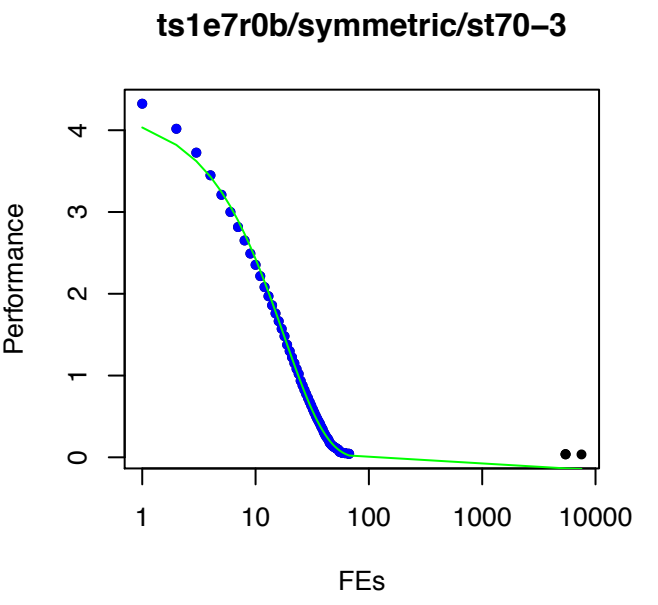
FEs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Performance
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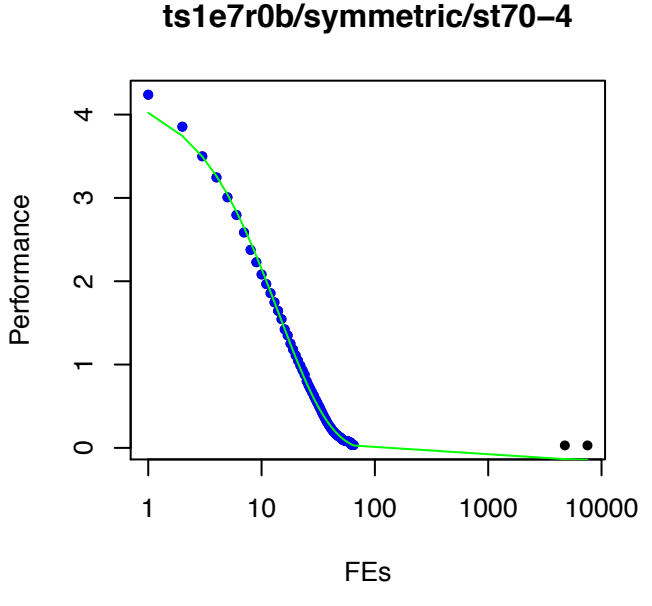
FEs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Performance
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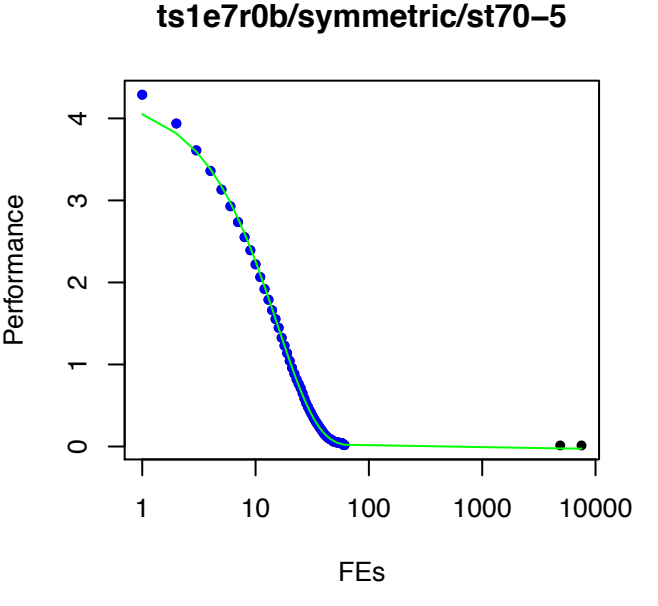
FEs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Performance
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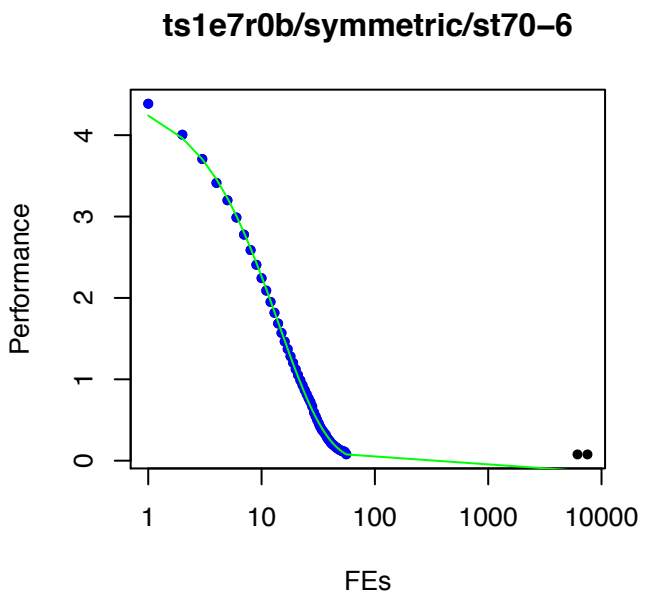
FEs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Performance
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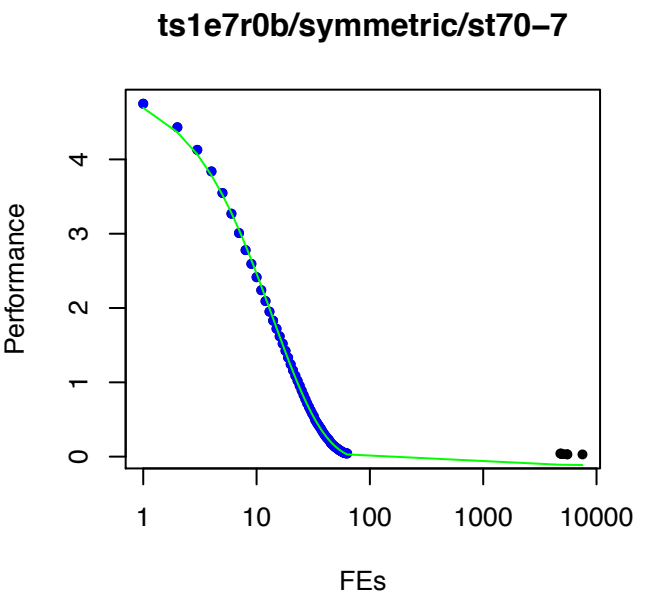
FEs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Performance
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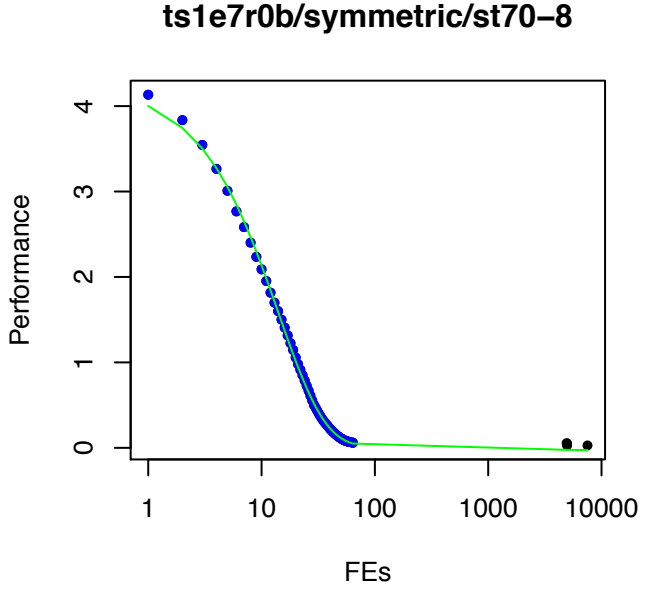
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Performance
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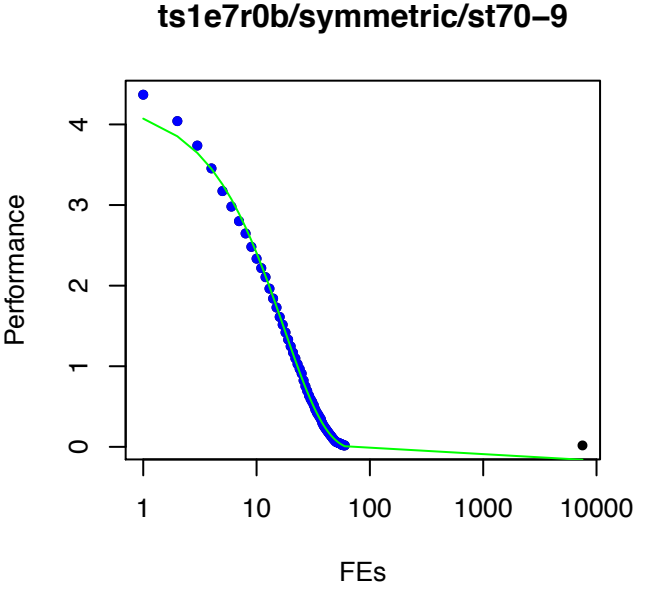
FEs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Performance
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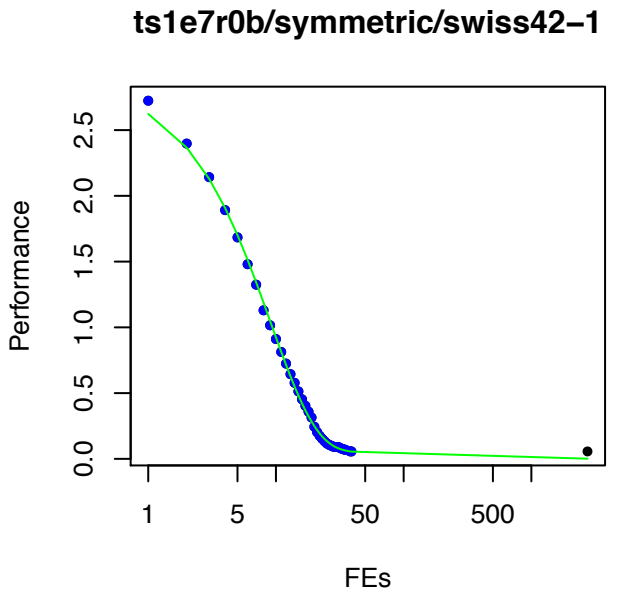
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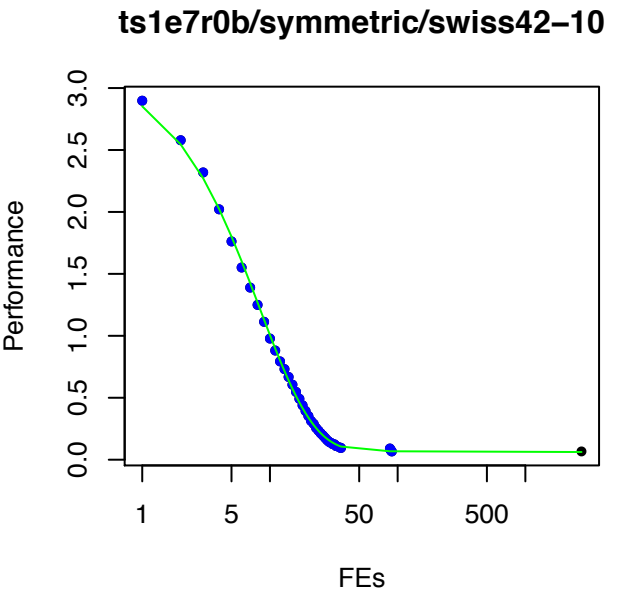
FEs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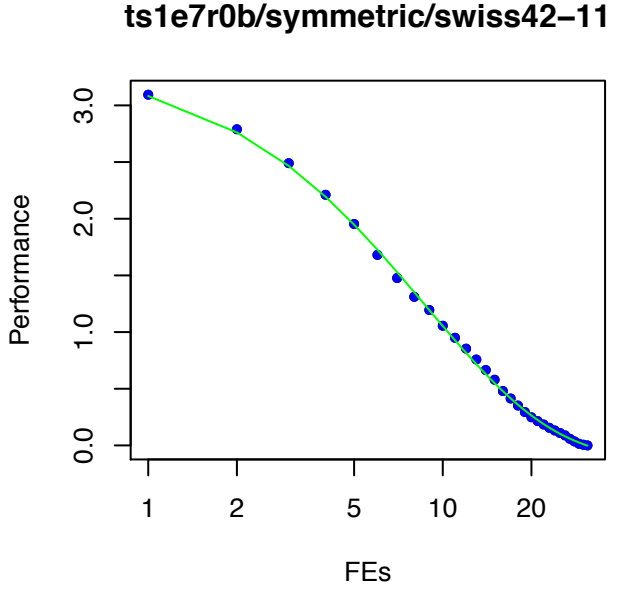
FEs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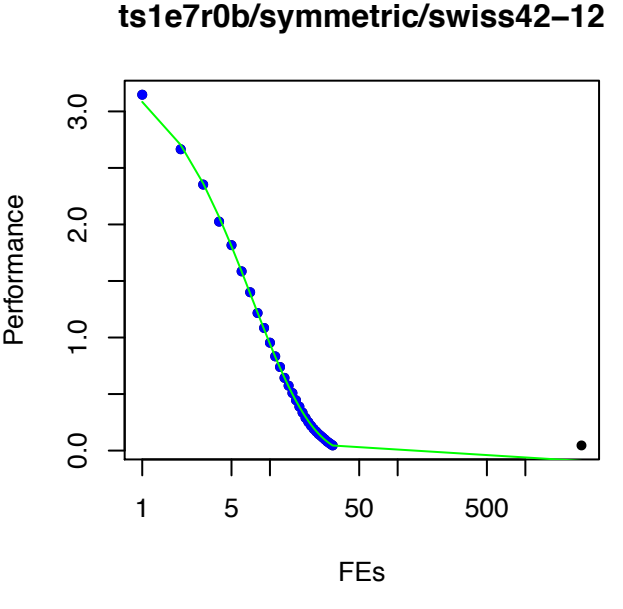
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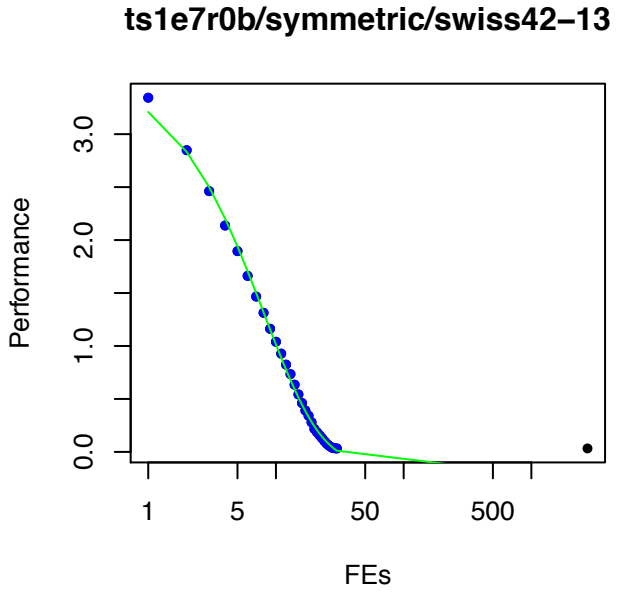
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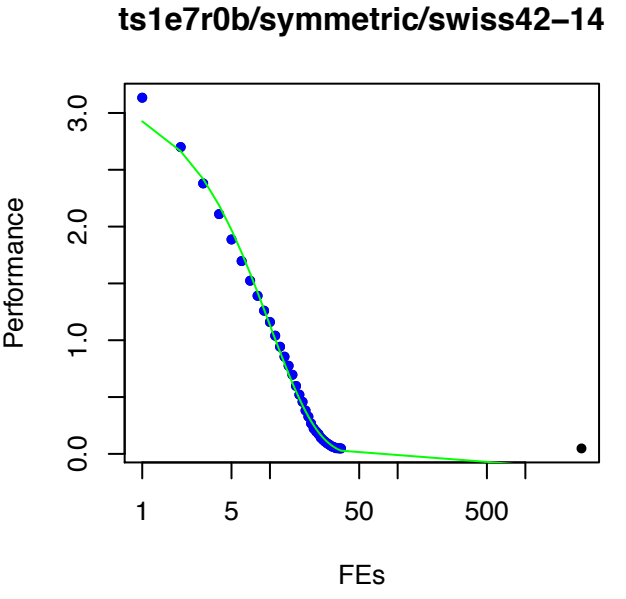
FEs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Performance
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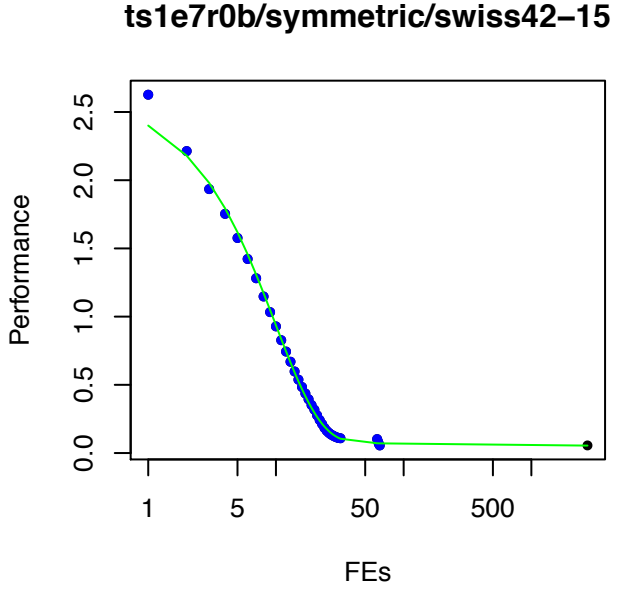
FEs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Performance
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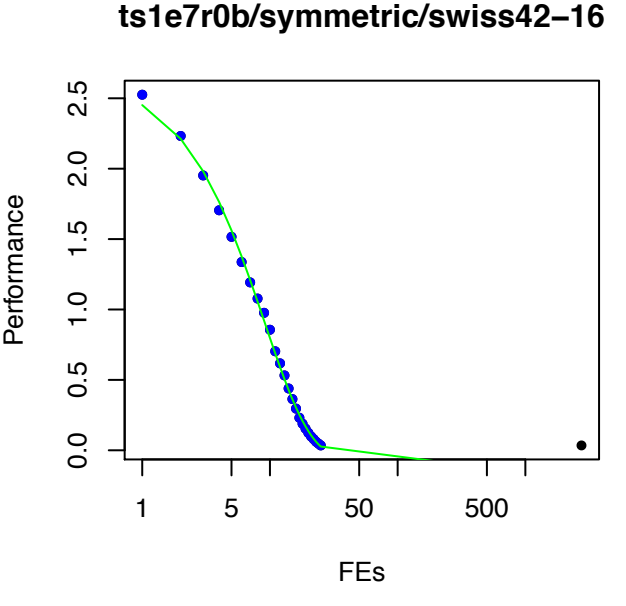
FEs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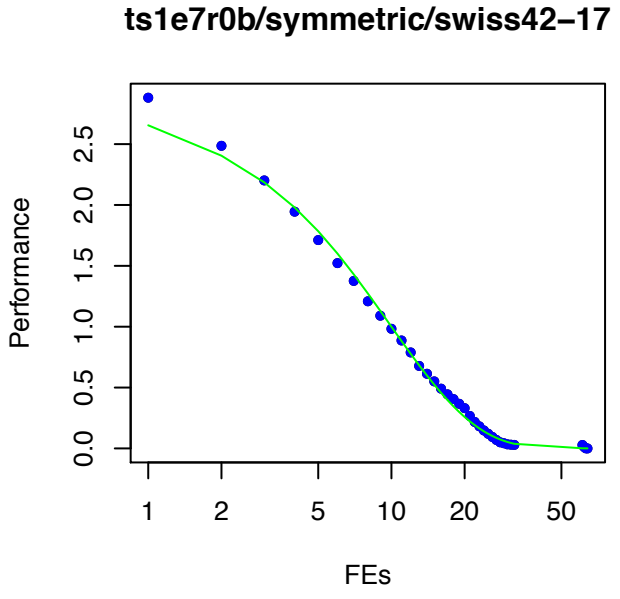
FEs


ts1e7r0b/symmetric/swiss42−17
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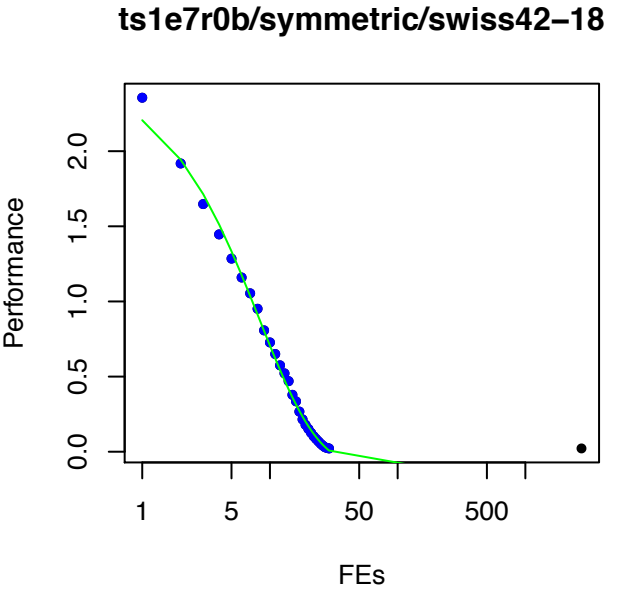
FEs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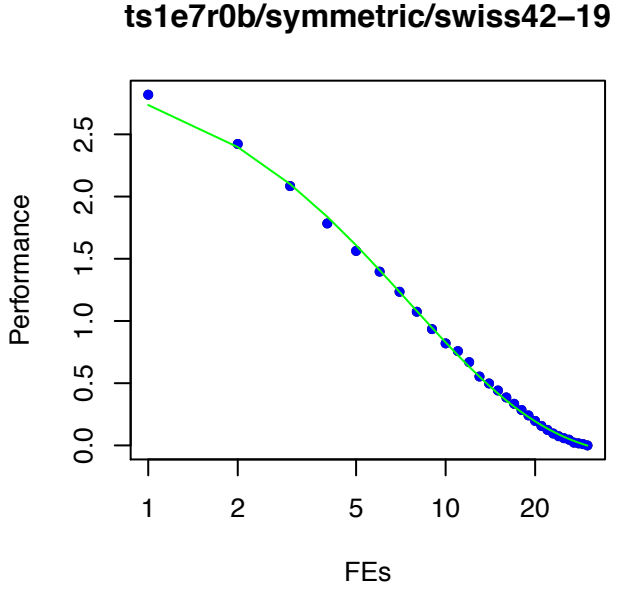
FEs


ts1e7r0b/symmetric/swiss42−19
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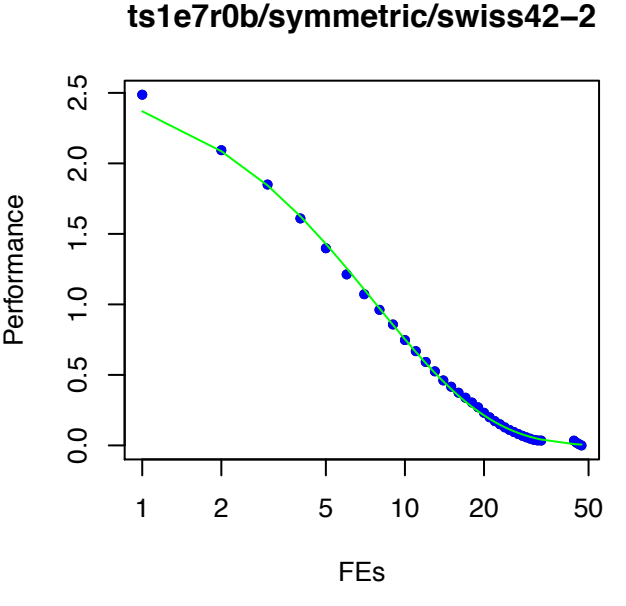
20
FEs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1
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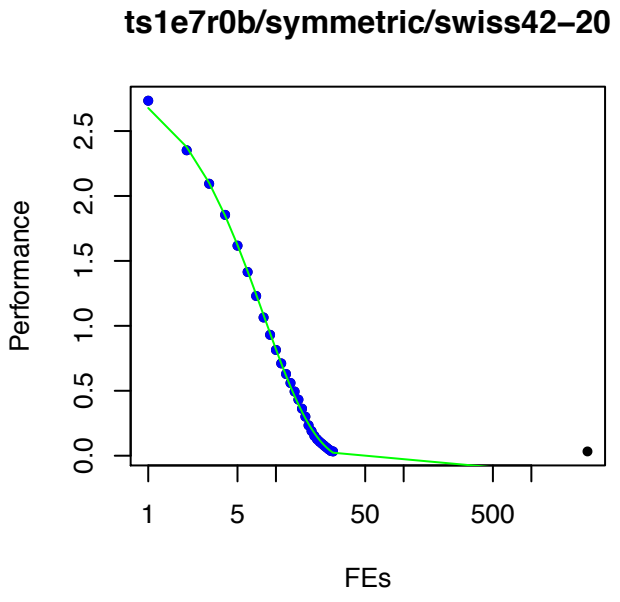
20
50
FEs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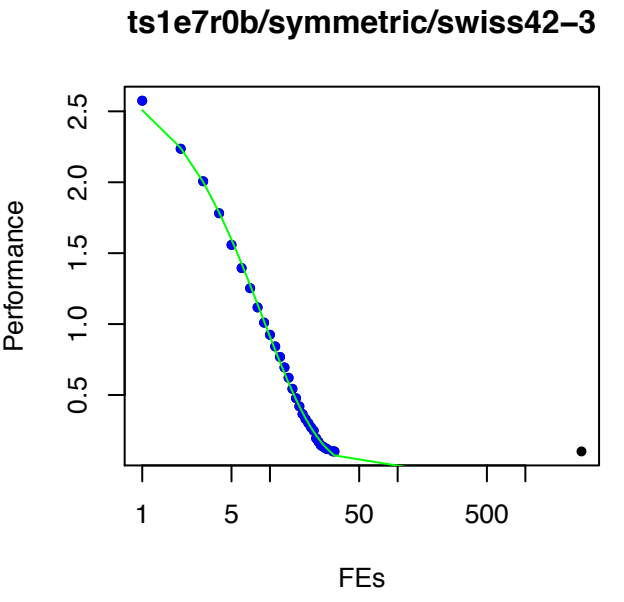
FEs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Performance
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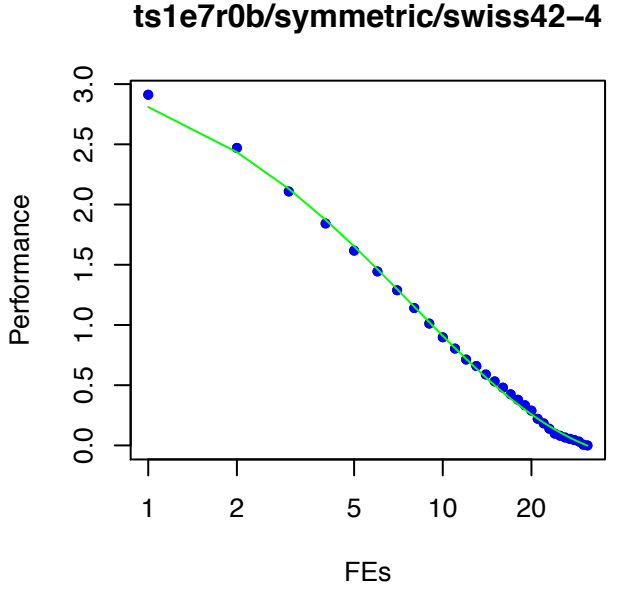
2.0
2.5
1
5
50
500
FEs


ts1e7r0b/symmetric/swiss42−4
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3.0
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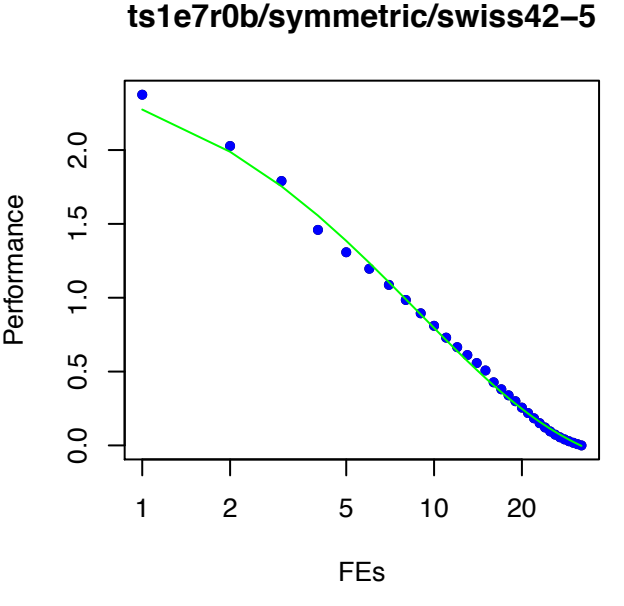
2
5
10
20
FEs


ts1e7r0b/symmetric/swiss42−5
Performance
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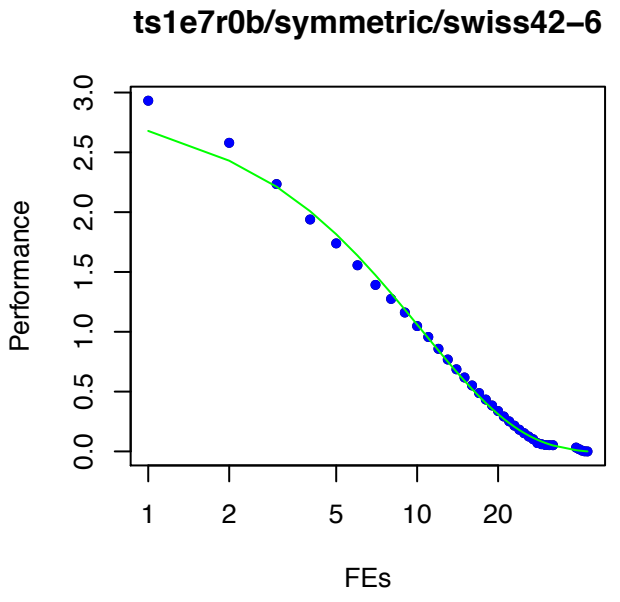
1.5
2.0
1
2
5
10
20
FEs


ts1e7r0b/symmetric/swiss42−6
Performance
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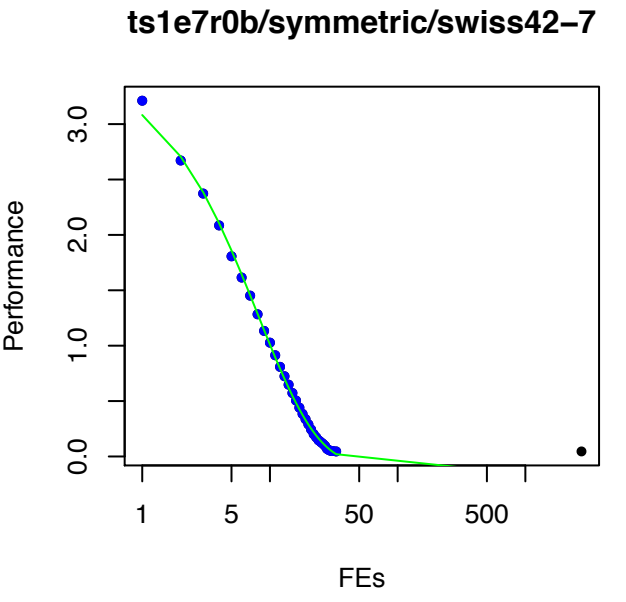
1.0
1.5
2.0
2.5
3.0
1
2
5
10
20
FEs


ts1e7r0b/symmetric/swiss42−7
Performance
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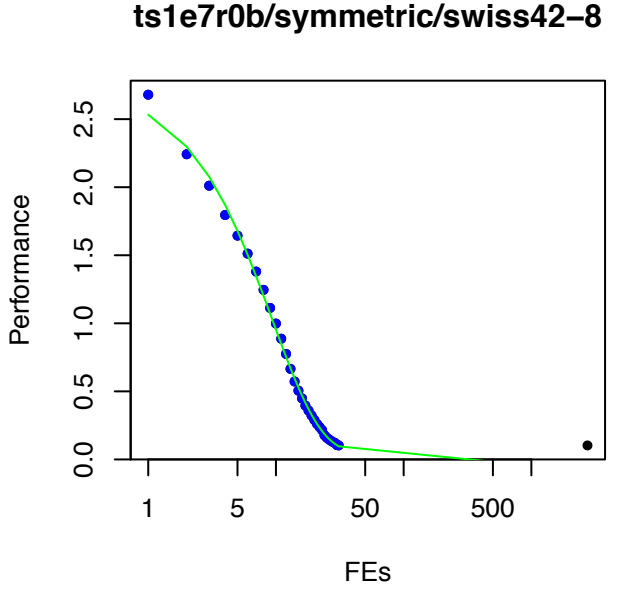
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/swiss42−8
Performance
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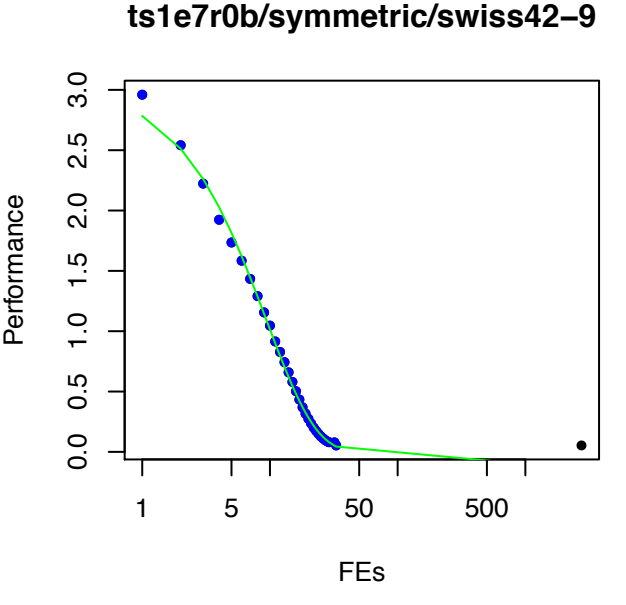
0.5
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts1e7r0b/symmetric/swiss42−9
Performance
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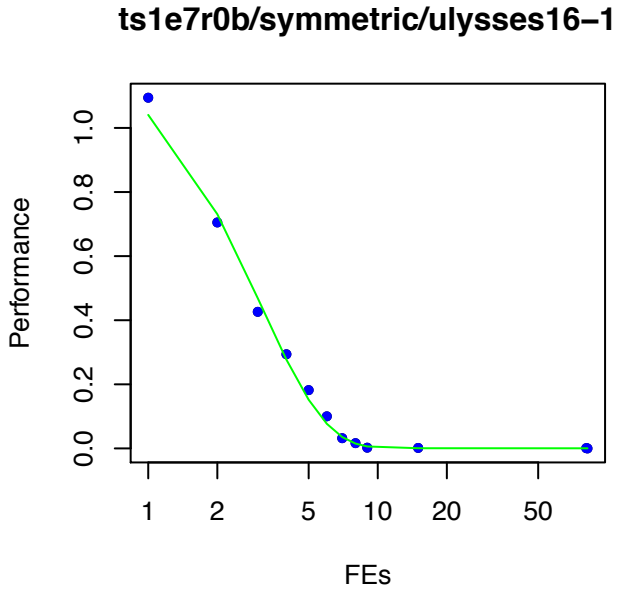
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/ulysses16−1
Performance
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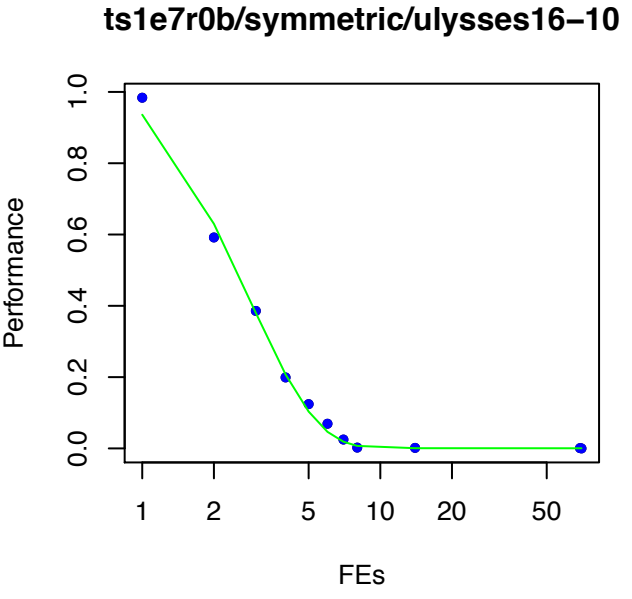
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses16−10
Performance
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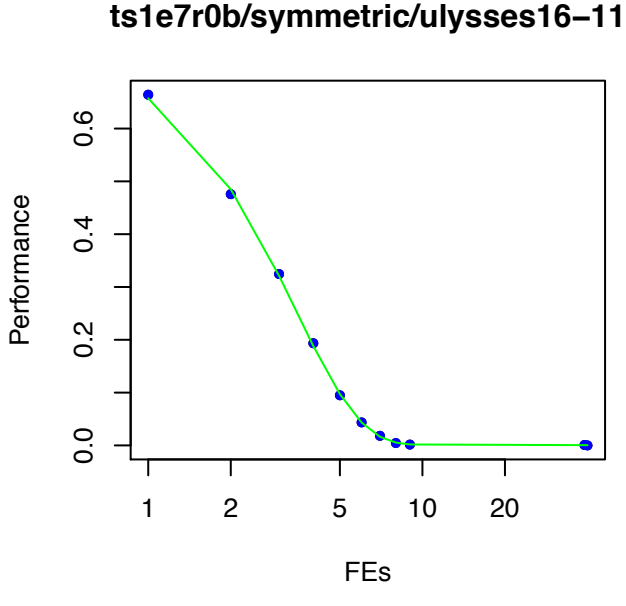
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses16−11
Performance
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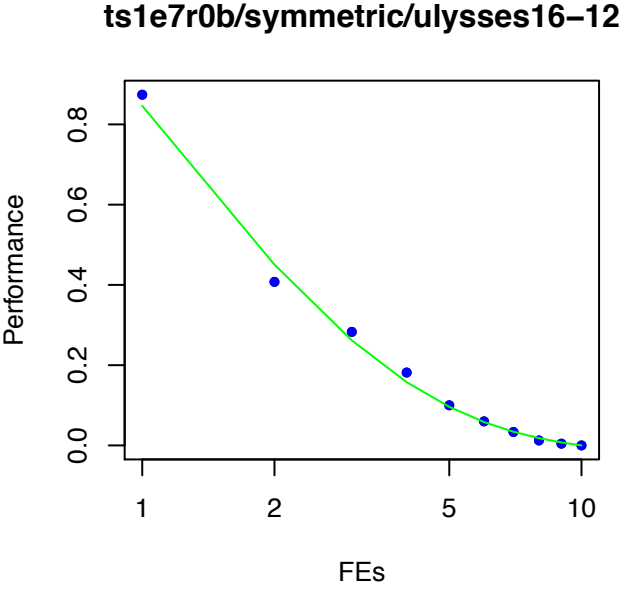
0.2
0.4
0.6
1
2
5
10
20
FEs


ts1e7r0b/symmetric/ulysses16−12
Performance
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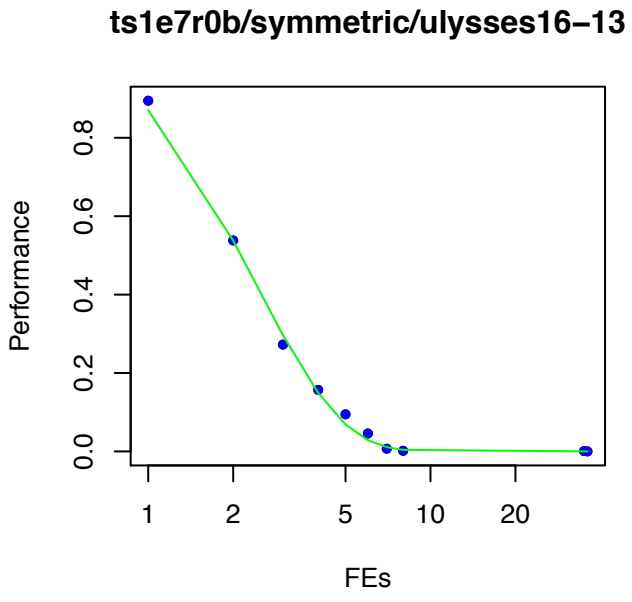
0.4
0.6
0.8
1
2
5
10
FEs


ts1e7r0b/symmetric/ulysses16−13
Performance
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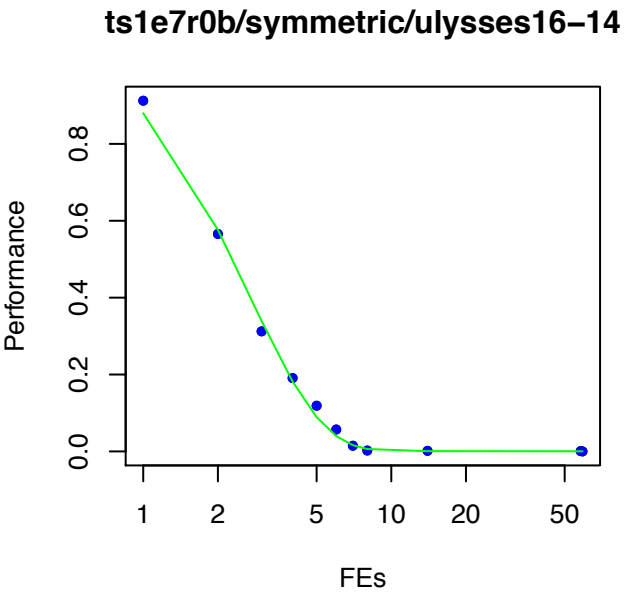
0.2
0.4
0.6
0.8
1
2
5
10
20
FEs


ts1e7r0b/symmetric/ulysses16−14
Performance
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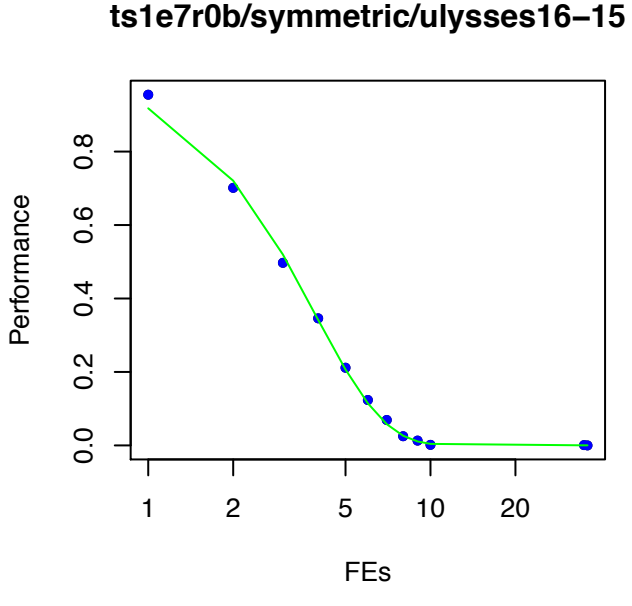
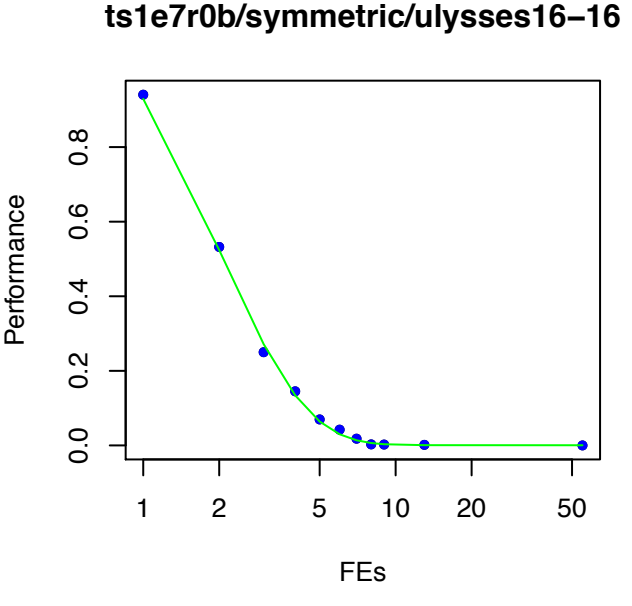
0.6
0.8
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses16−15
Performance
0.0
0.2
0.4
0.6
0.8
1
2
5
10
20
FEs


ts1e7r0b/symmetric/ulysses16−16
Performance
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0.4
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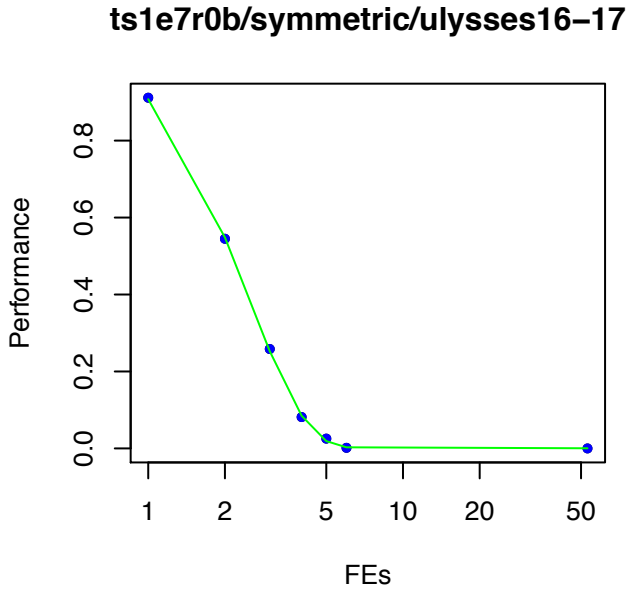
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses16−17
Performance
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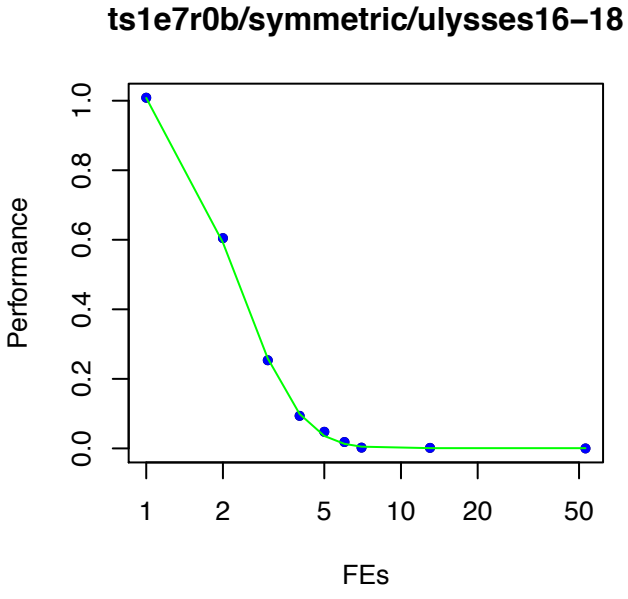
0.2
0.4
0.6
0.8
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses16−18
Performance
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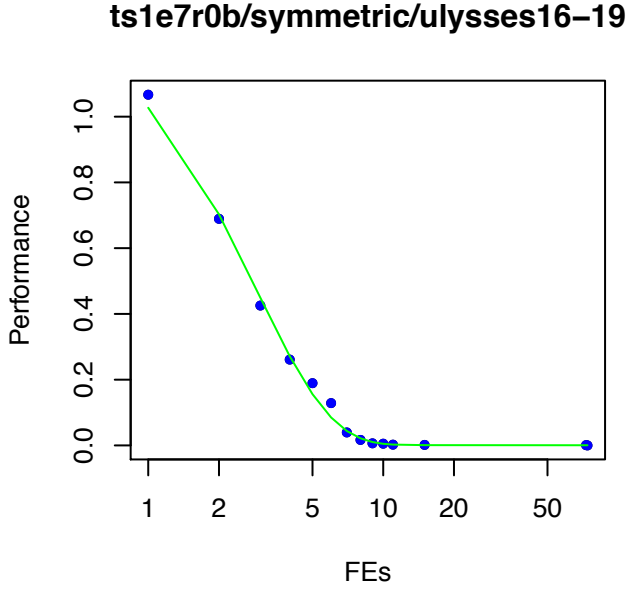
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses16−19
Performance
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0.2
0.4
0.6
0.8
1.0
1
2
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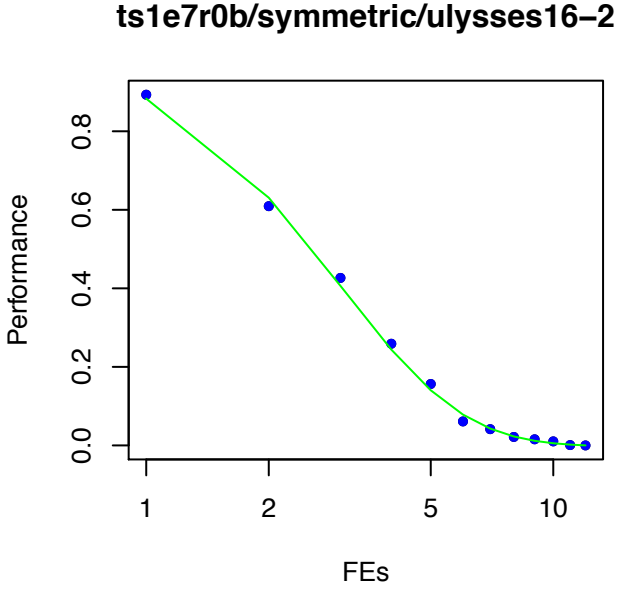
10
20
50
FEs


ts1e7r0b/symmetric/ulysses16−2
Performance
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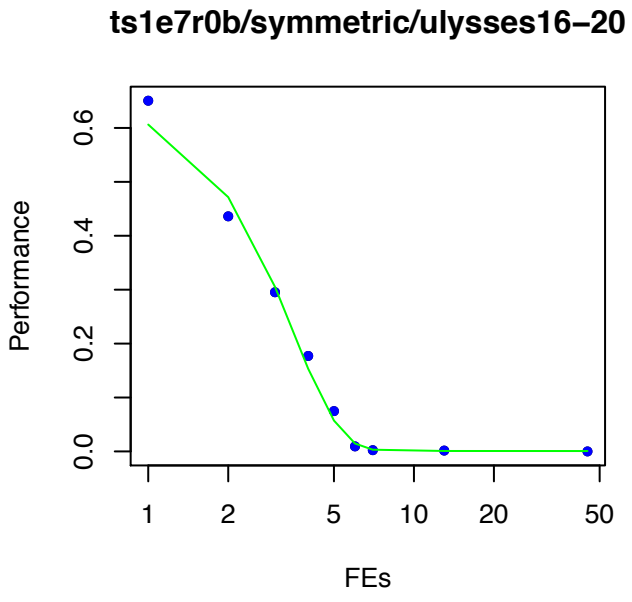
0.2
0.4
0.6
0.8
1
2
5
10
FEs


ts1e7r0b/symmetric/ulysses16−20
Performance
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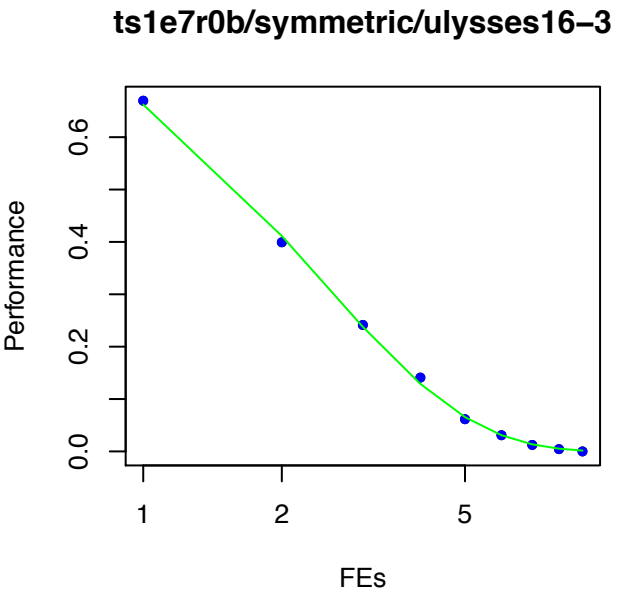
0.2
0.4
0.6
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses16−3
Performance
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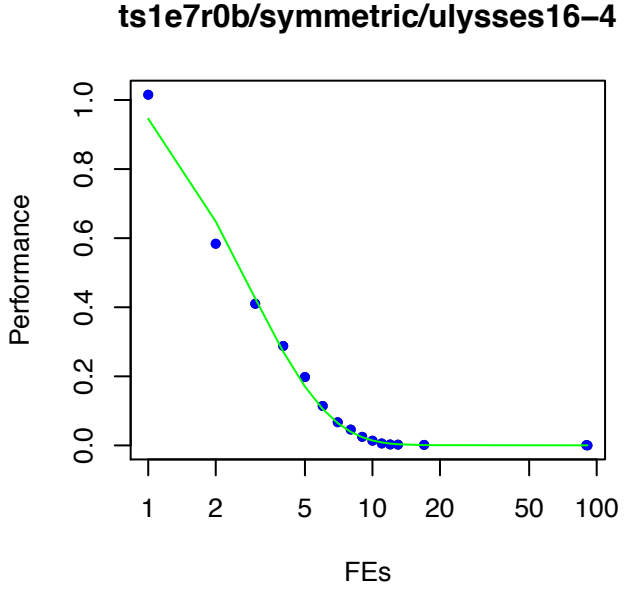
0.2
0.4
0.6
1
2
5
FEs


ts1e7r0b/symmetric/ulysses16−4
Performance
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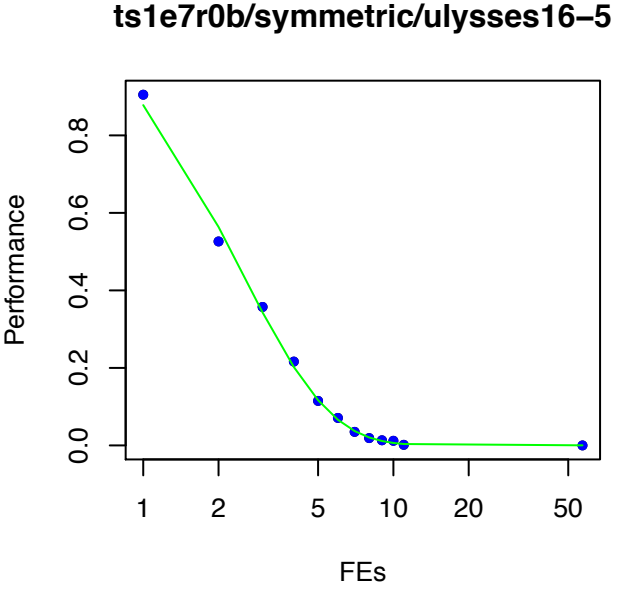
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
50
100
FEs


ts1e7r0b/symmetric/ulysses16−5
Performance
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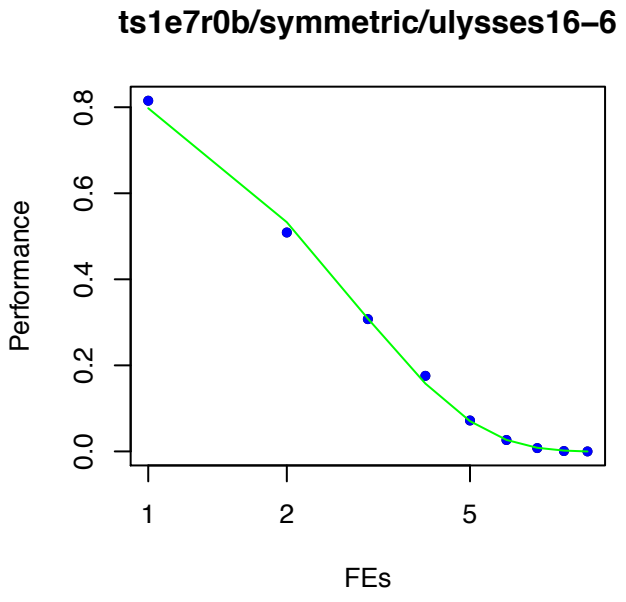
0.2
0.4
0.6
0.8
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses16−6
Performance
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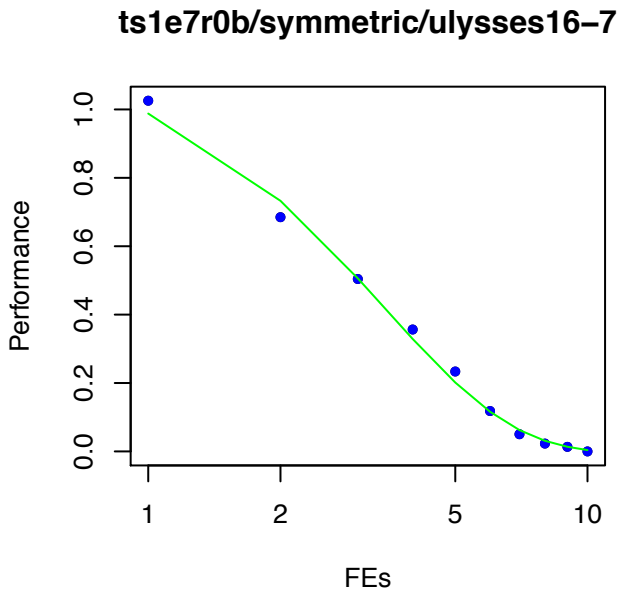
0.2
0.4
0.6
0.8
1
2
5
FEs


ts1e7r0b/symmetric/ulysses16−7
Performance
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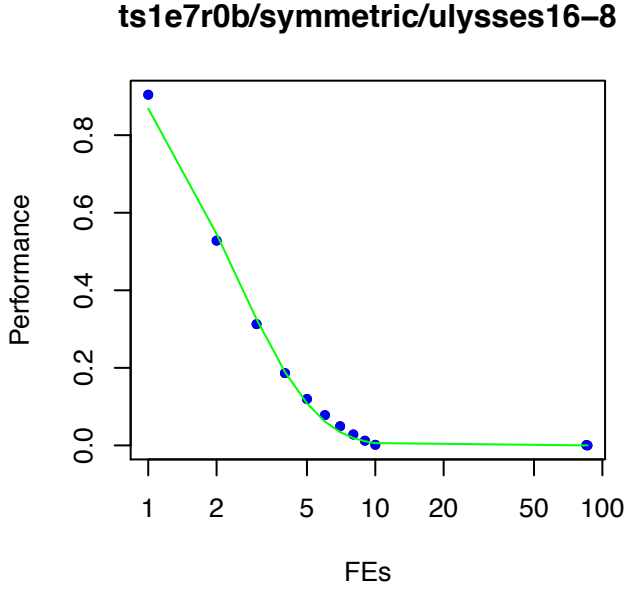
0.2
0.4
0.6
0.8
1.0
1
2
5
10
FEs


ts1e7r0b/symmetric/ulysses16−8
Performance
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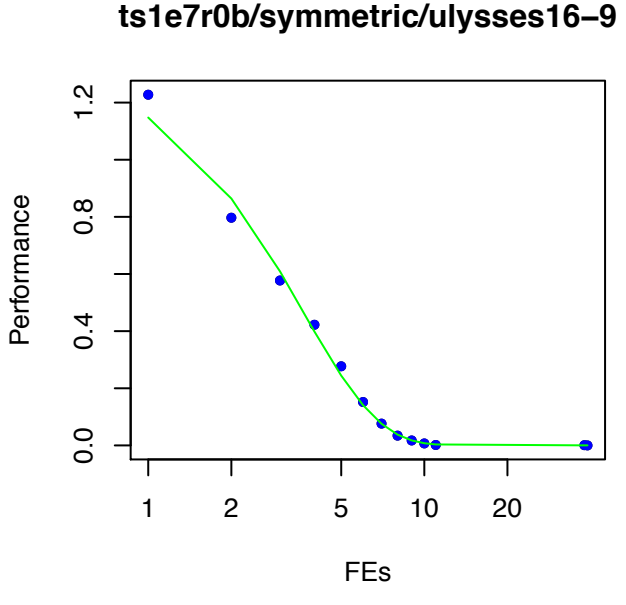
0.4
0.6
0.8
1
2
5
10
20
50
100
FEs


ts1e7r0b/symmetric/ulysses16−9
Performance
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1.2
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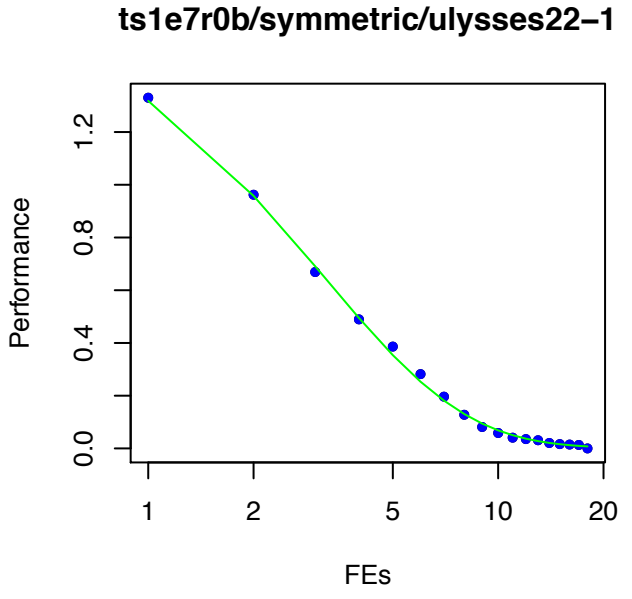
2
5
10
20
FEs


ts1e7r0b/symmetric/ulysses22−1
Performance
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0.8
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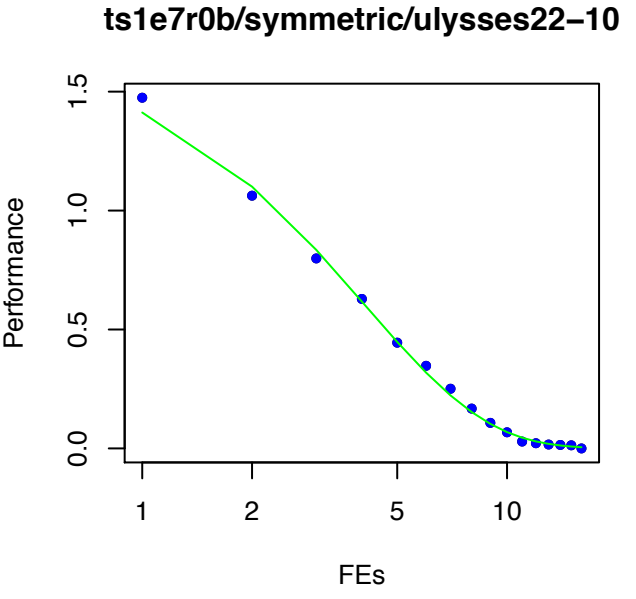
1
2
5
10
20
FEs


ts1e7r0b/symmetric/ulysses22−10
Performance
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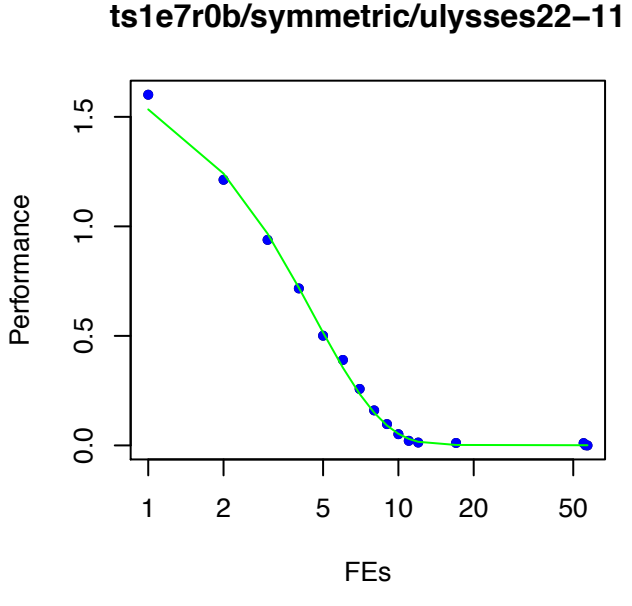
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/ulysses22−11
Performance
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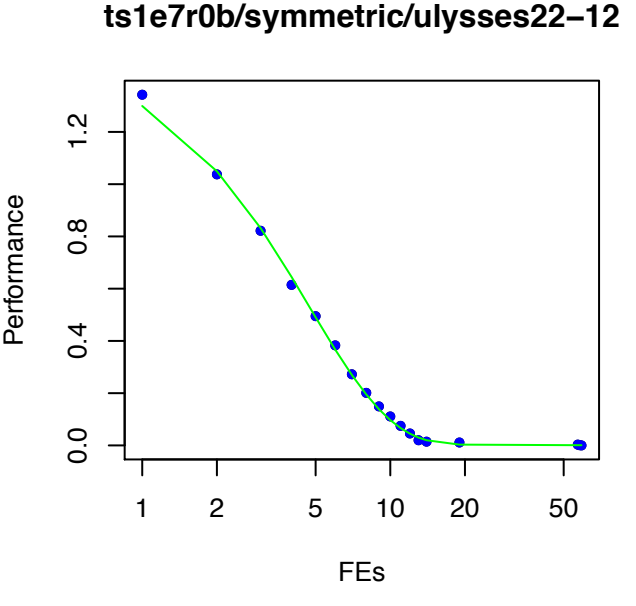
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses22−12
Performance
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0.8
1.2
1
2
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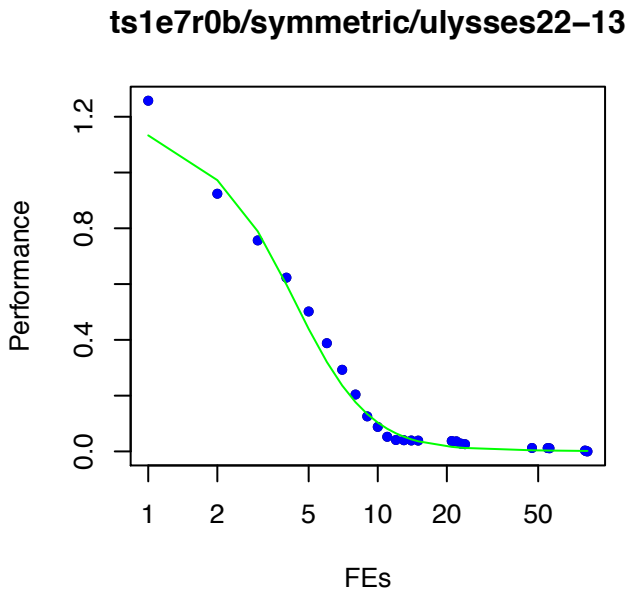
10
20
50
FEs


ts1e7r0b/symmetric/ulysses22−13
Performance
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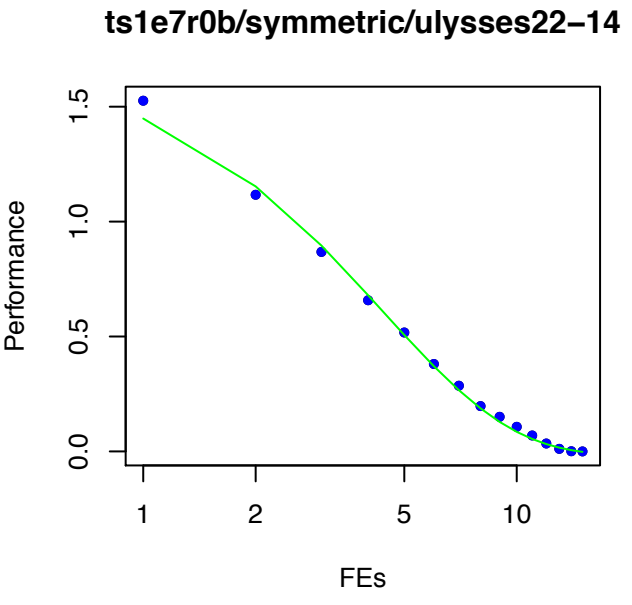
0.8
1.2
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses22−14
Performance
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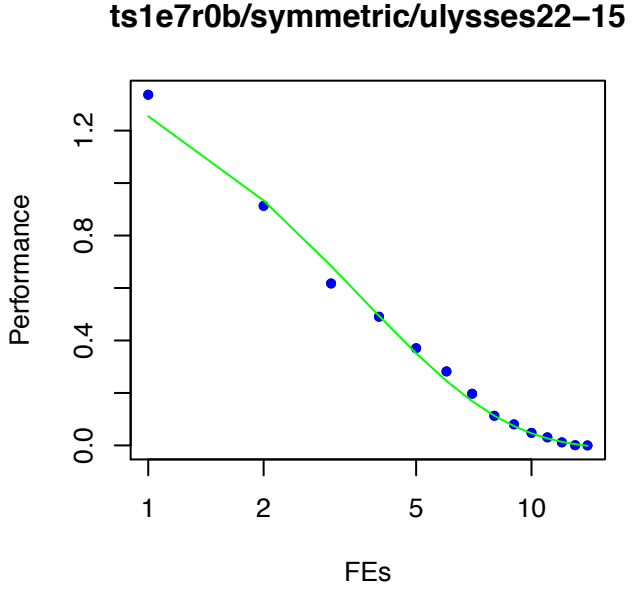
1.0
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/ulysses22−15
Performance
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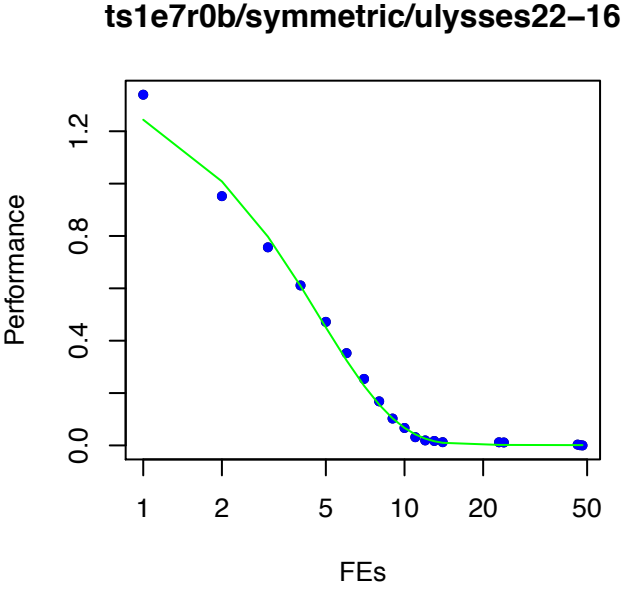
0.8
1.2
1
2
5
10
FEs


ts1e7r0b/symmetric/ulysses22−16
Performance
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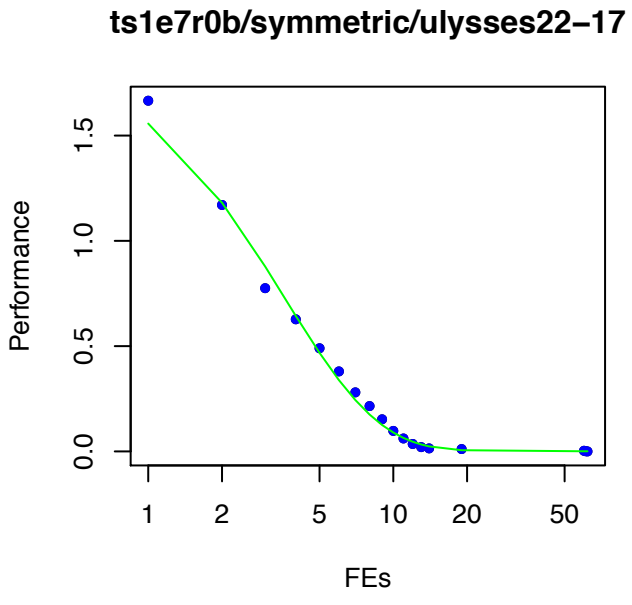
0.8
1.2
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses22−17
Performance
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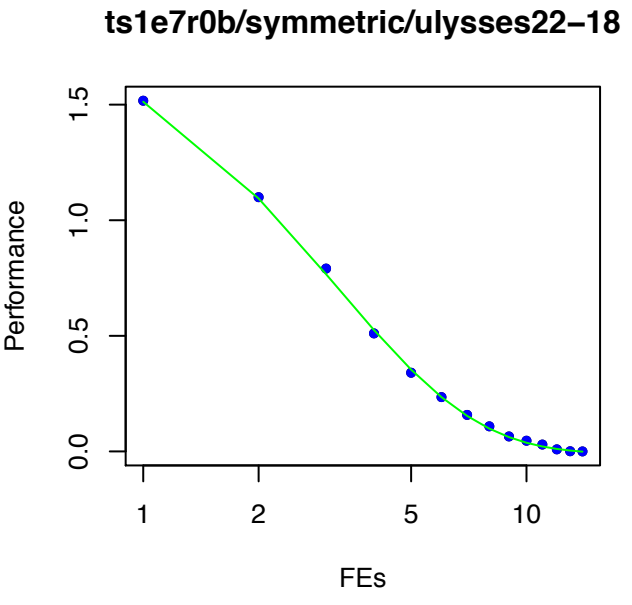
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses22−18
Performance
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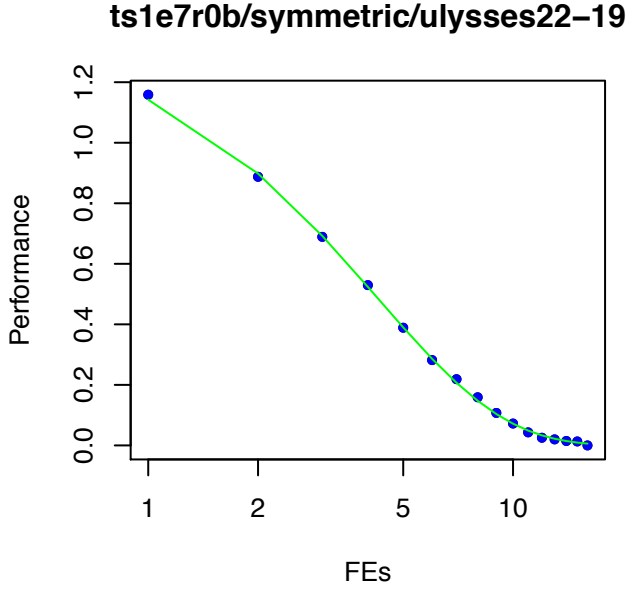
0.5
1.0
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/ulysses22−19
Performance
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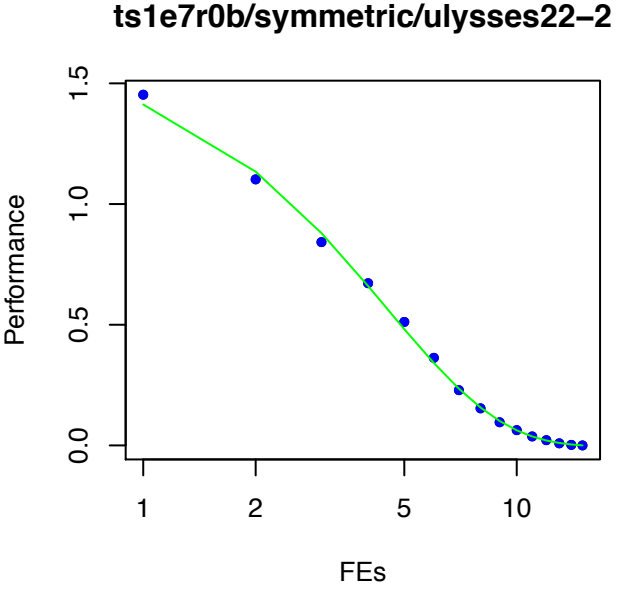
0.2
0.4
0.6
0.8
1.0
1.2
1
2
5
10
FEs


ts1e7r0b/symmetric/ulysses22−2
Performance
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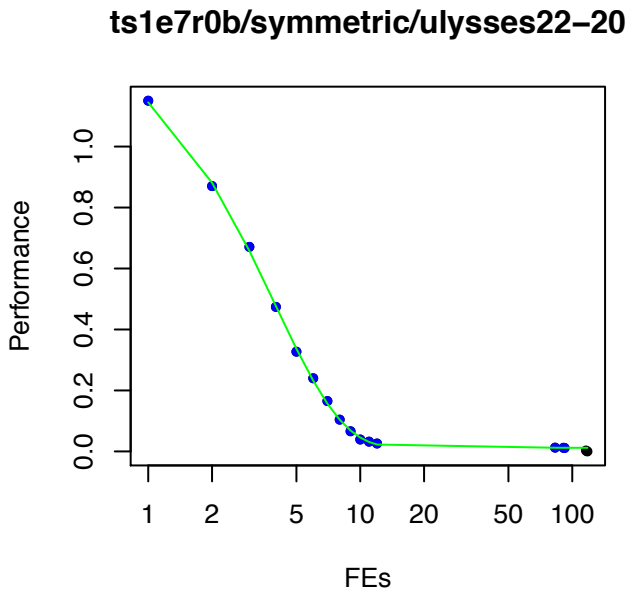
1.0
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/ulysses22−20
Performance
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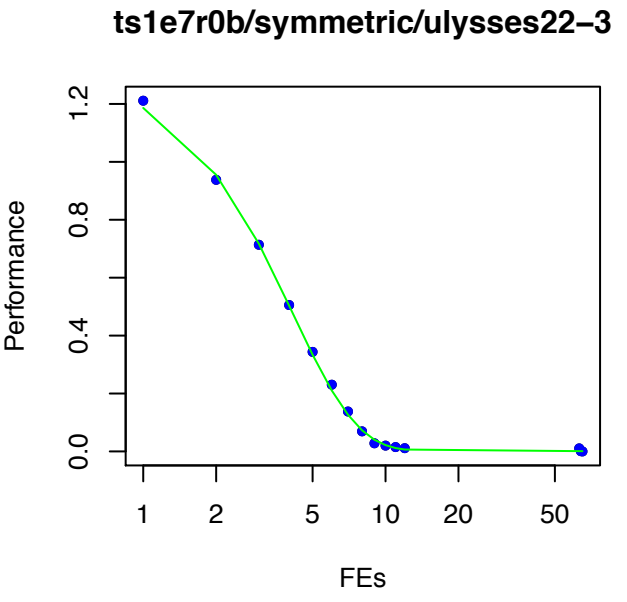
0.4
0.6
0.8
1.0
1
2
5
10
20
50
100
FEs


ts1e7r0b/symmetric/ulysses22−3
Performance
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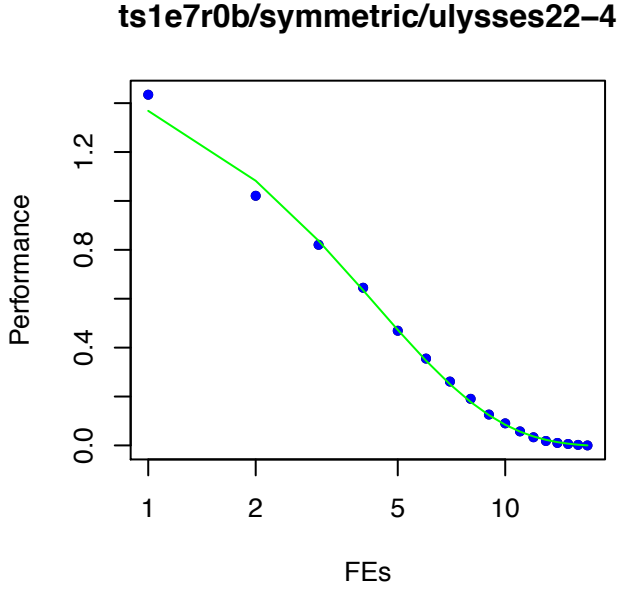
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses22−4
Performance
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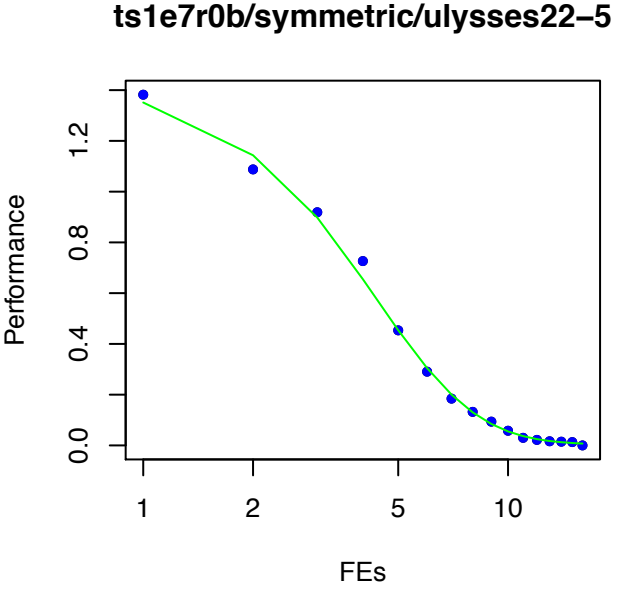
0.4
0.8
1.2
1
2
5
10
FEs


ts1e7r0b/symmetric/ulysses22−5
Performance
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0.4
0.8
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2
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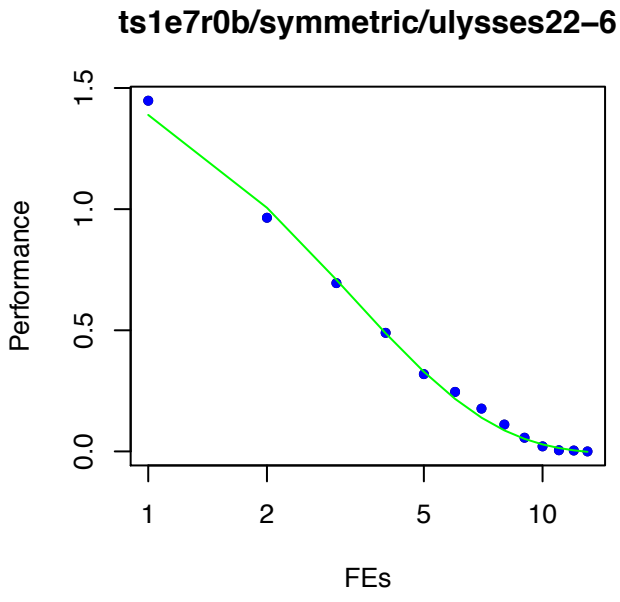
FEs


ts1e7r0b/symmetric/ulysses22−6
Performance
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2
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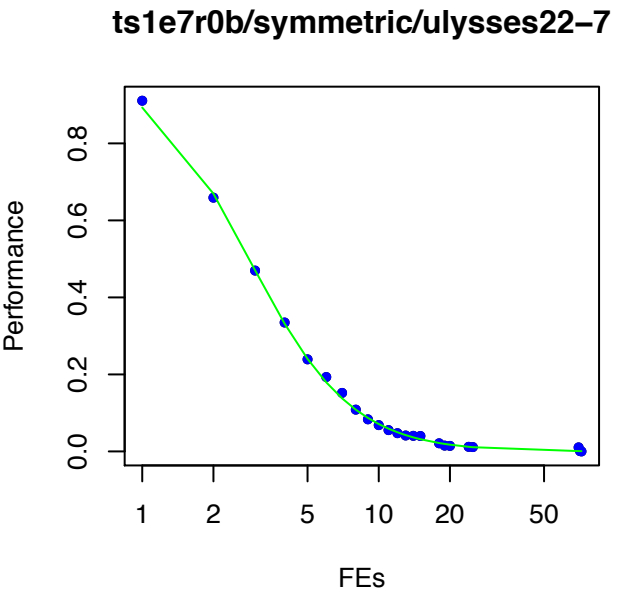
FEs


ts1e7r0b/symmetric/ulysses22−7
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2
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10
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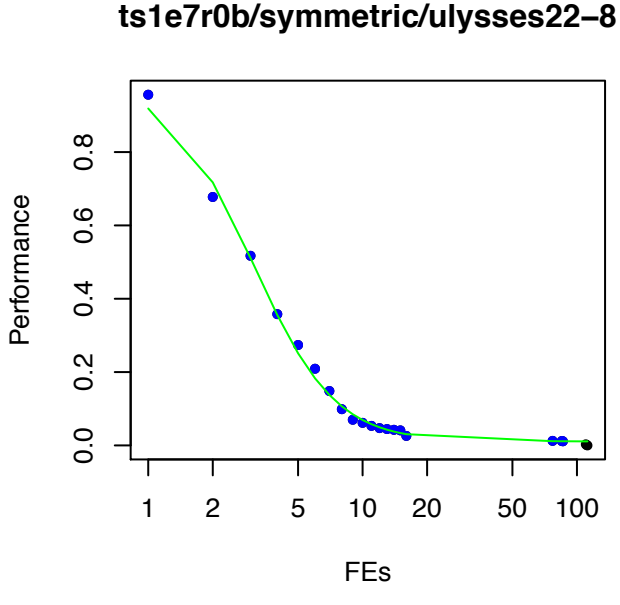
FEs


ts1e7r0b/symmetric/ulysses22−8
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0.8
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2
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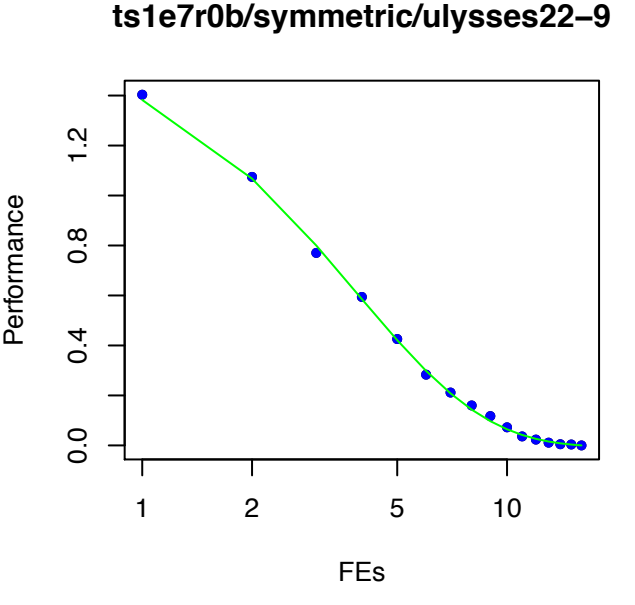
FEs


ts1e7r0b/symmetric/ulysses22−9
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2
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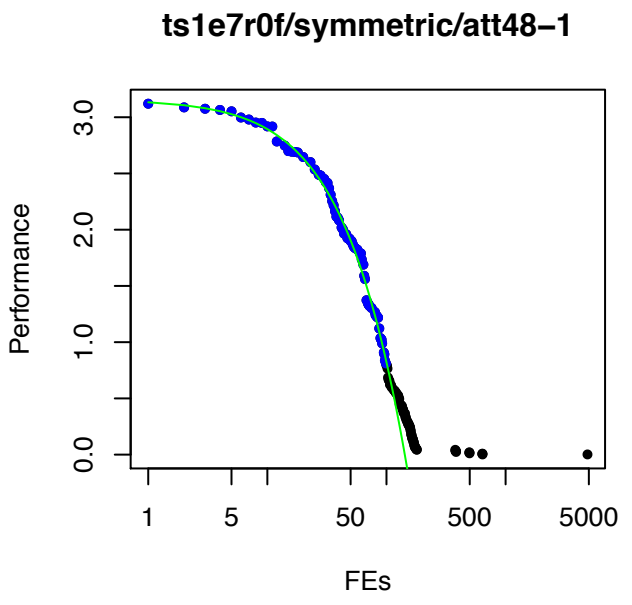
FEs


ts1e7r0f/symmetric/att48−1
Performance
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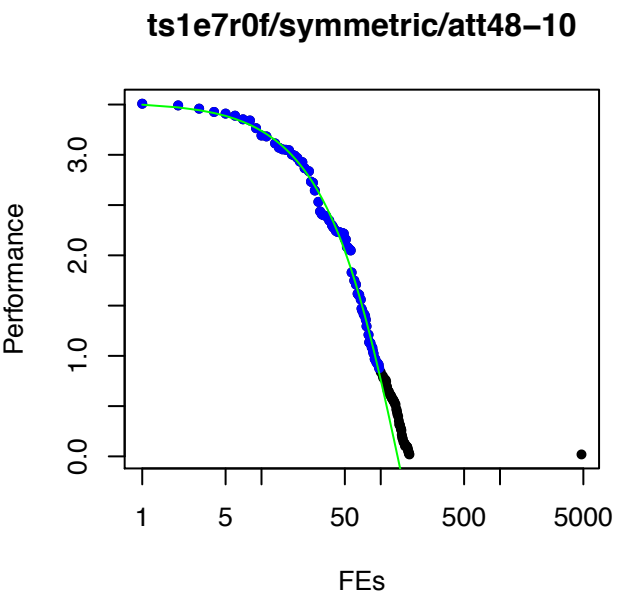
5000
FEs


ts1e7r0f/symmetric/att48−10
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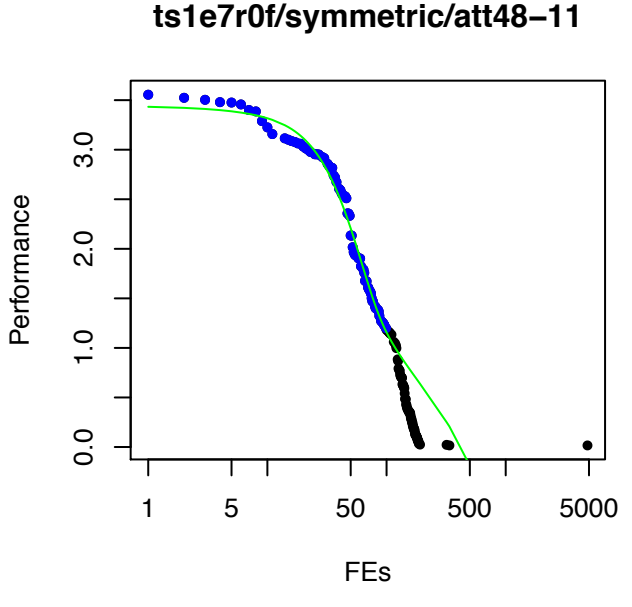
5000
FEs


ts1e7r0f/symmetric/att48−11
Performance
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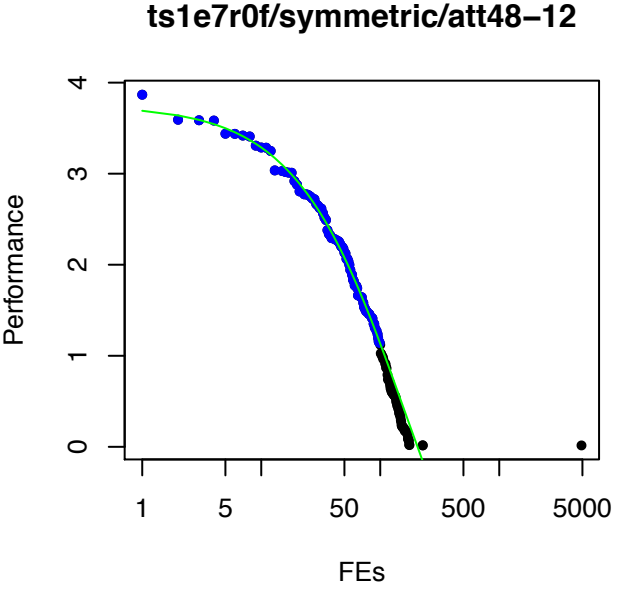
FEs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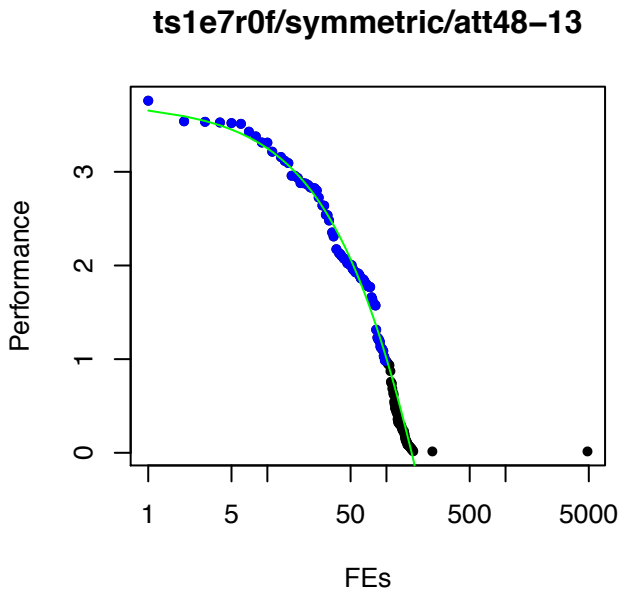
FEs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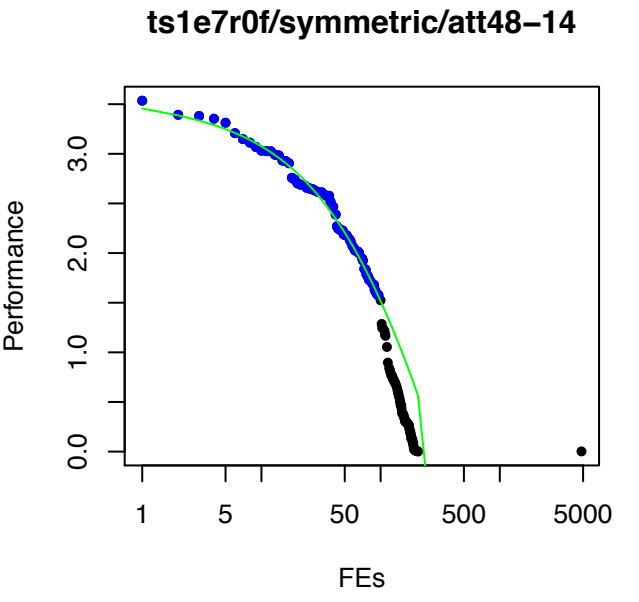
FEs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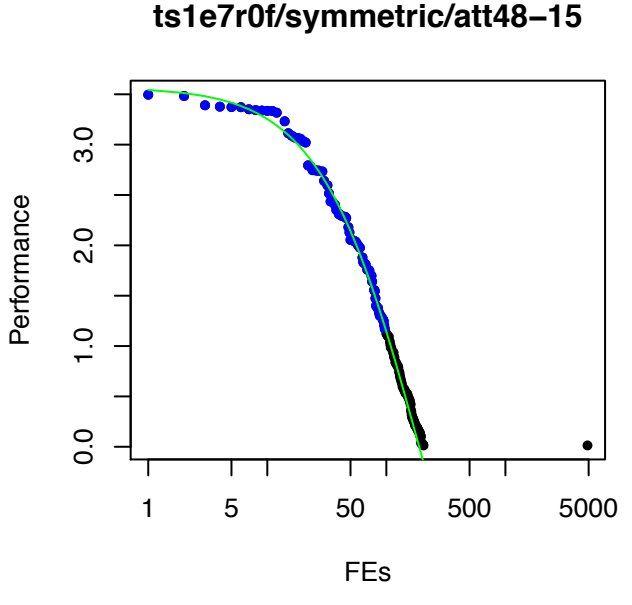
FEs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Performance
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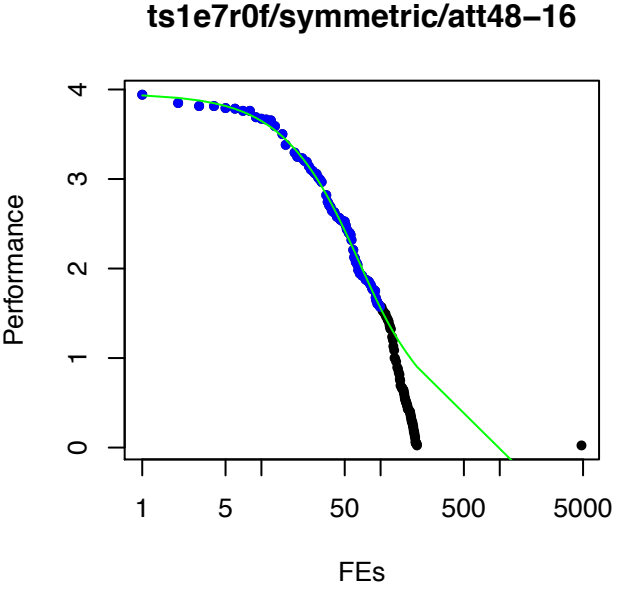
5000
FEs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Performance
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2
3
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1
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50
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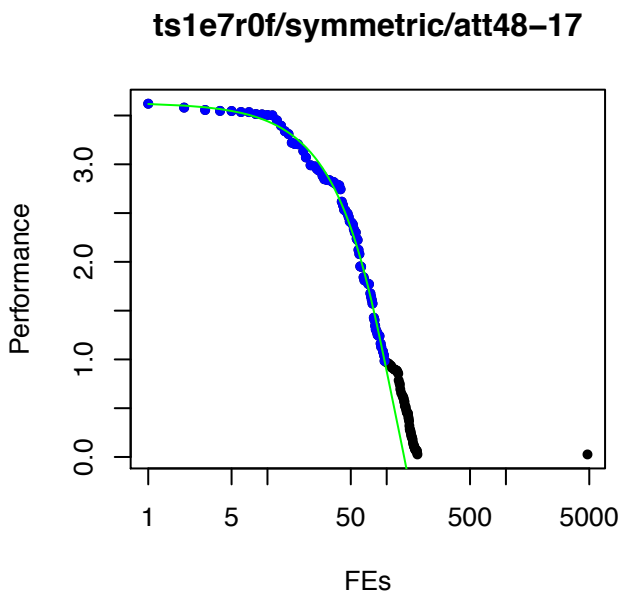
5000
FEs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Performance
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3.0
1
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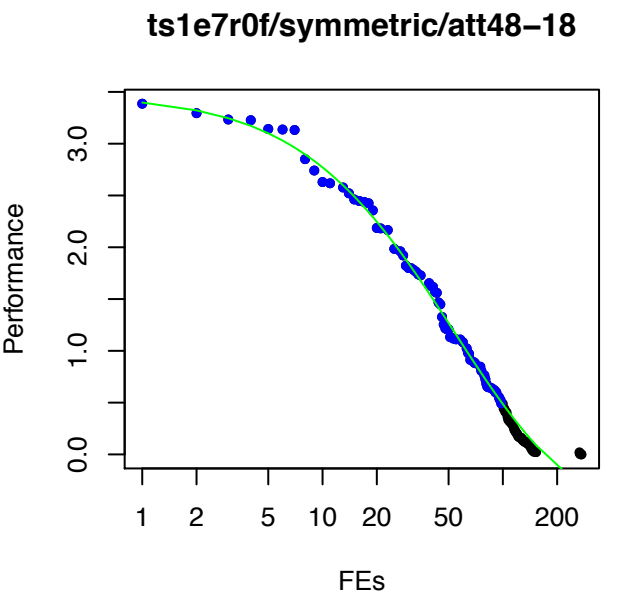
500
5000
FEs


ts1e7r0f/symmetric/att48−18
Performance
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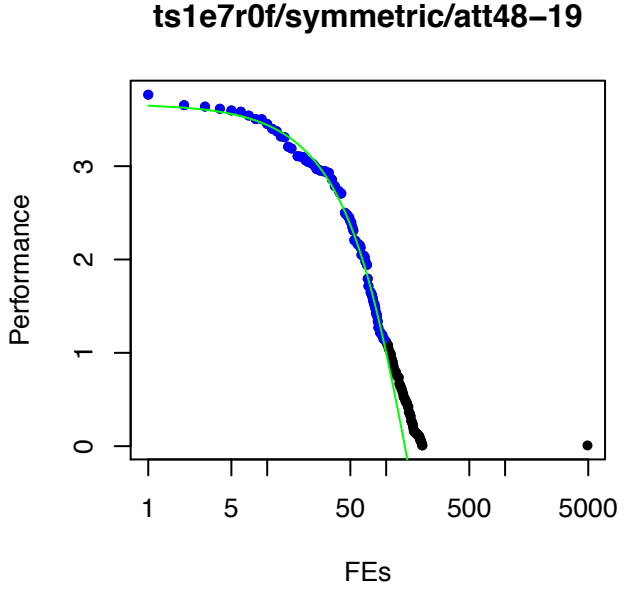
200
FEs


ts1e7r0f/symmetric/att48−19
Performance
0
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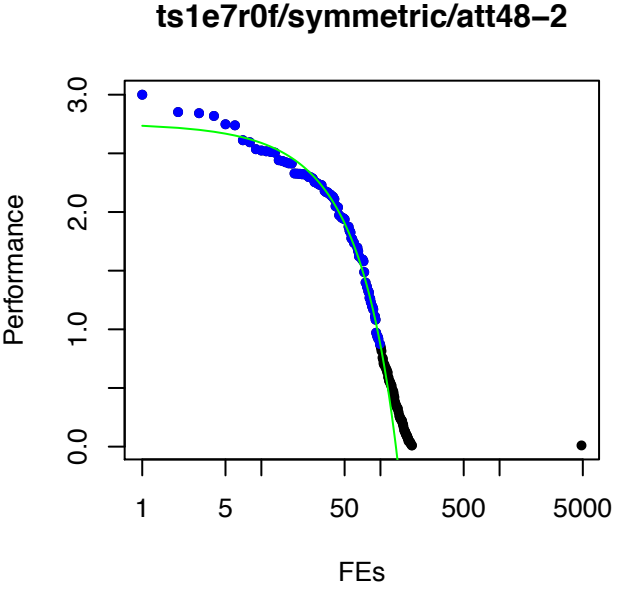
2
3
1
5
50
500
5000
FEs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Performance
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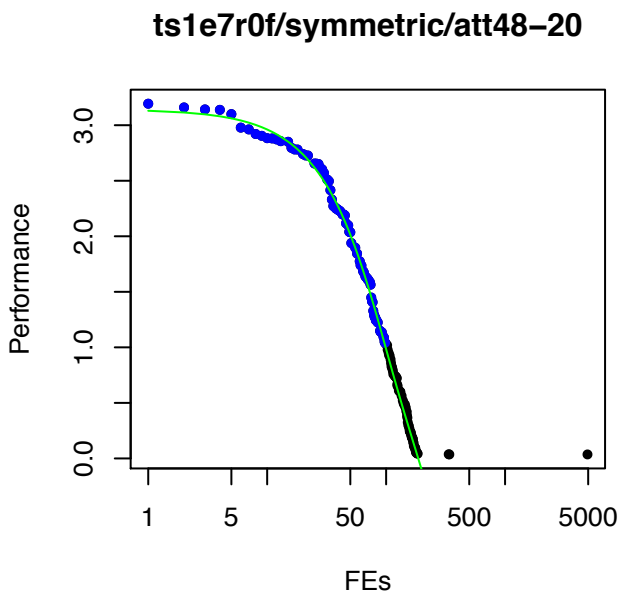
50
500
5000
FEs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Performance
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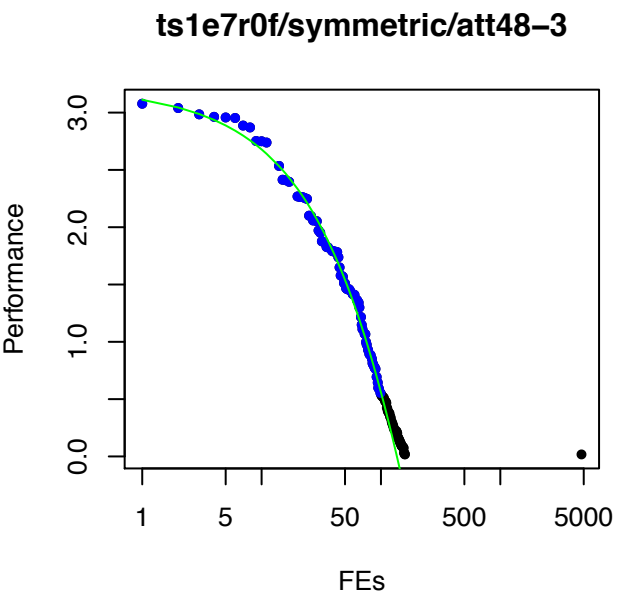
FEs


ts1e7r0f/symmetric/att48−3
Performance
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2.0
3.0
1
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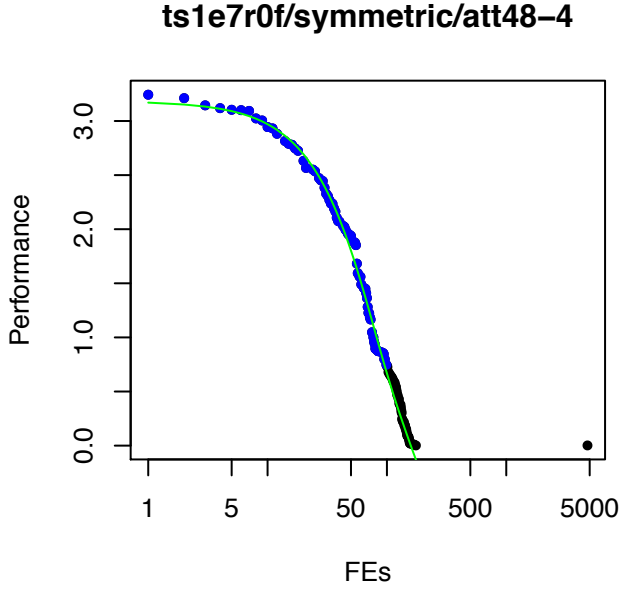
50
500
5000
FEs


ts1e7r0f/symmetric/att48−4
Performance
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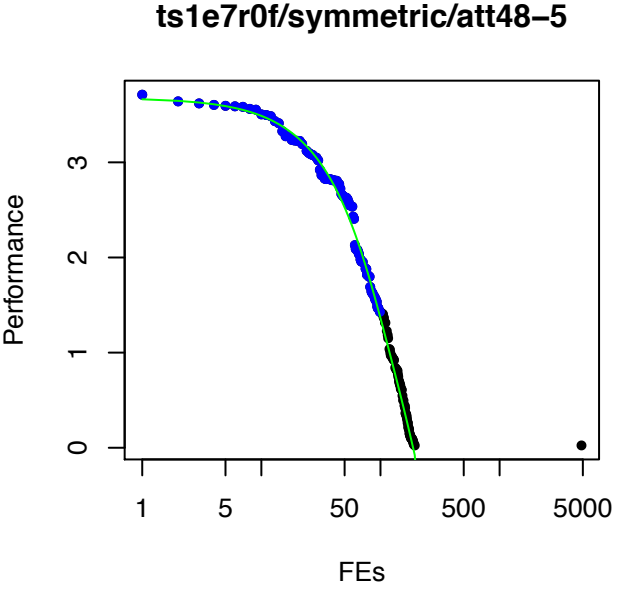
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/att48−5
Performance
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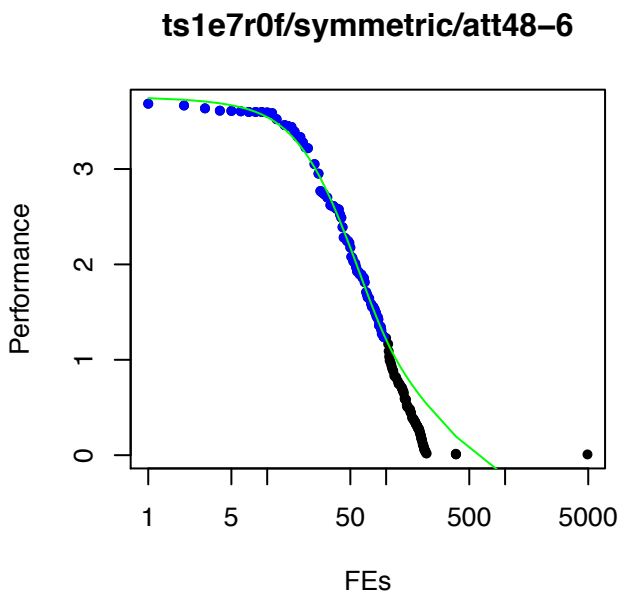
2
3
1
5
50
500
5000
FEs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Performance
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3
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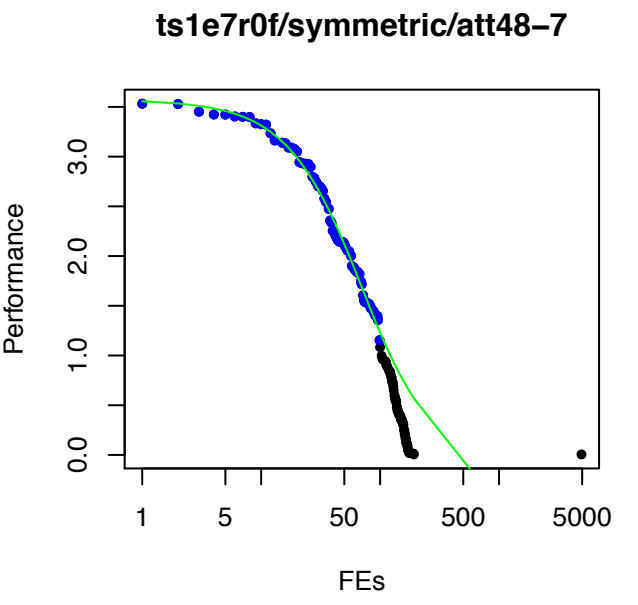
500
5000
FEs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Performance
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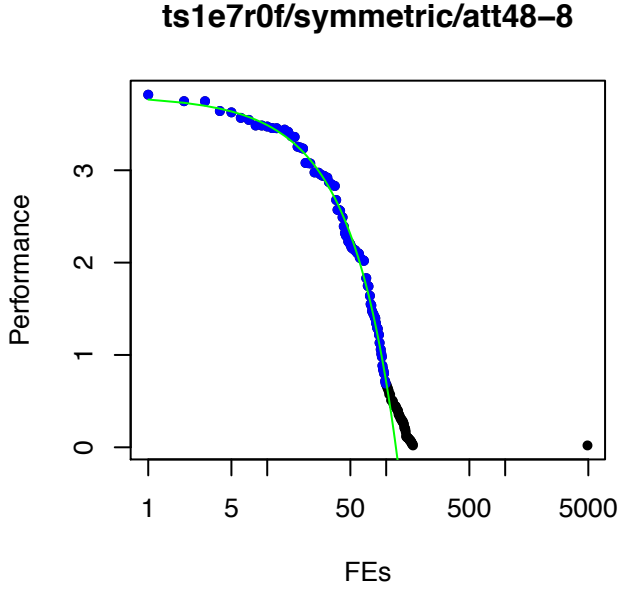
FEs


ts1e7r0f/symmetric/att48−8
Performance
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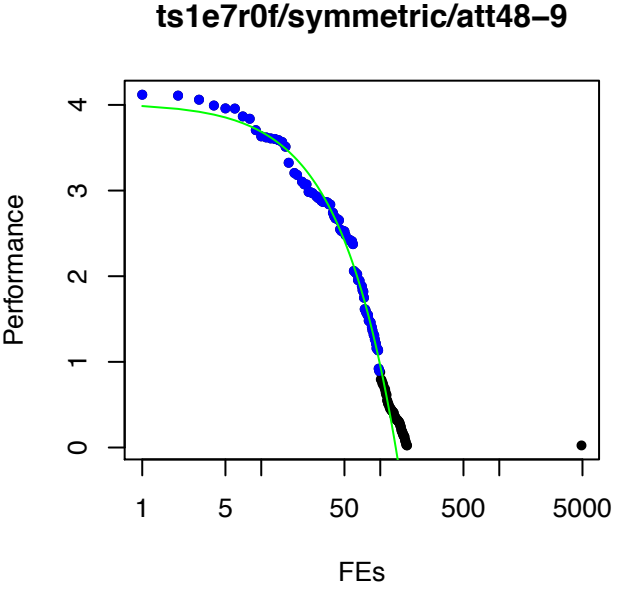
FEs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Performance
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4
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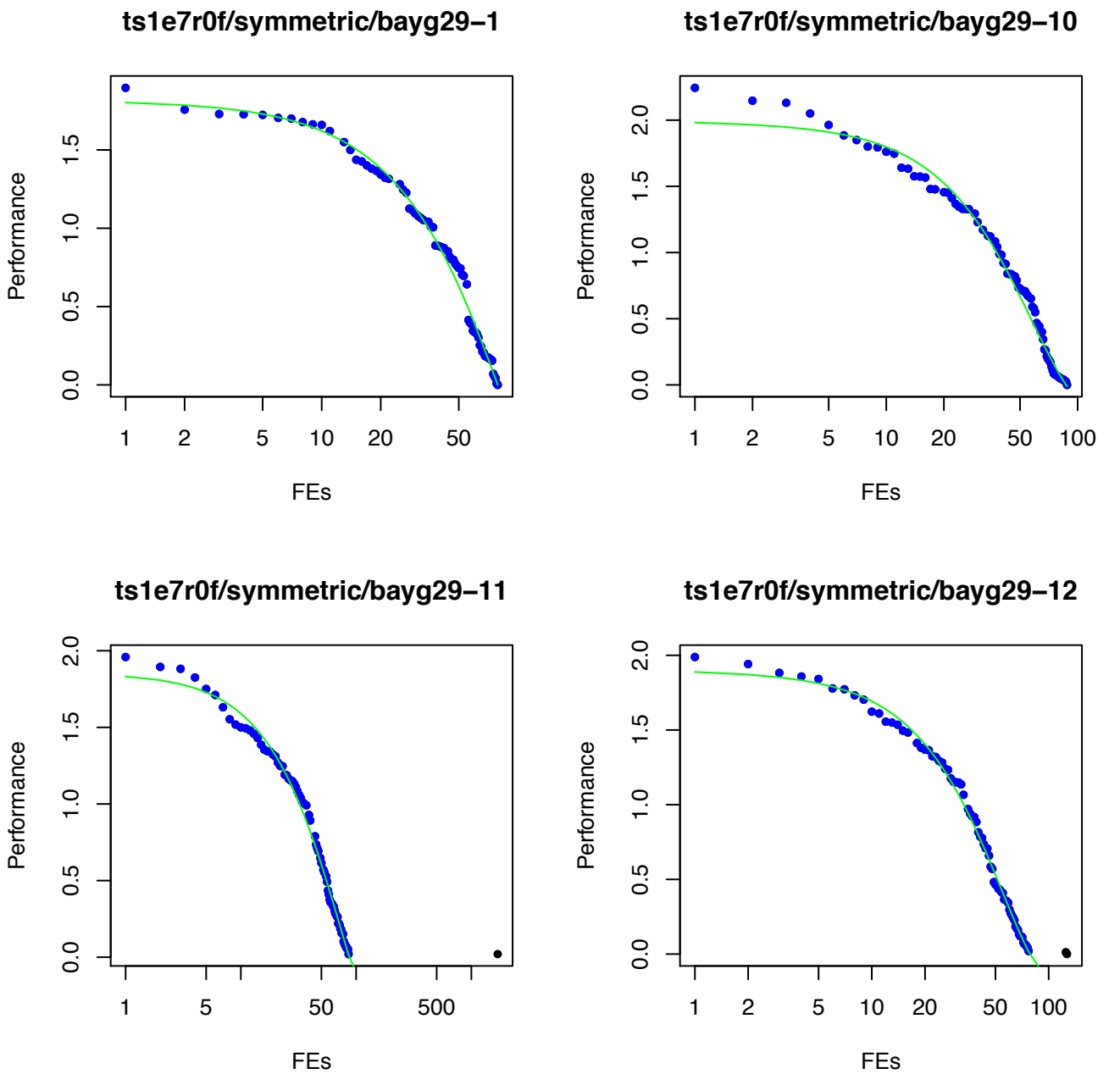
FEs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2
5
10
20
50
FEs
ts1e7r0f/symmetric/bayg29−10
Performance
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0.5
1.0
1.5
2.0
1
2
5
10
20
50
100
FEs
ts1e7r0f/symmetric/bayg29−11
Performance
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0.5
1.0
1.5
2.0
1
5
50
500
FEs
ts1e7r0f/symmetric/bayg29−12
Performance
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1.0
1.5
2.0
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2
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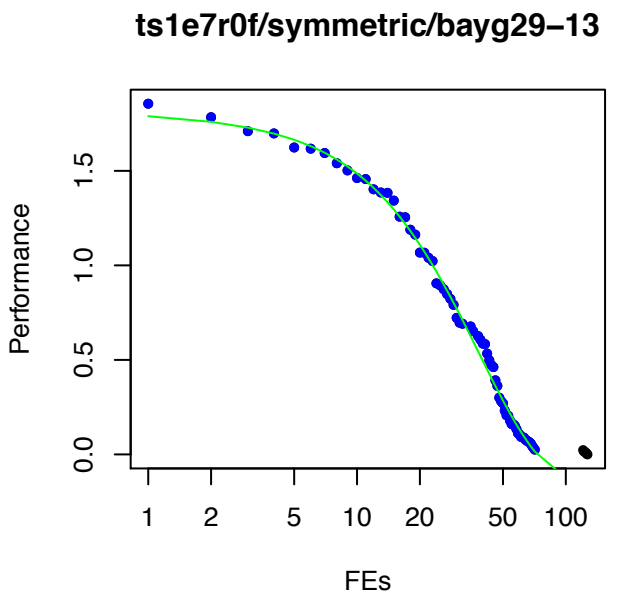
100
FEs


ts1e7r0f/symmetric/bayg29−13
Performance
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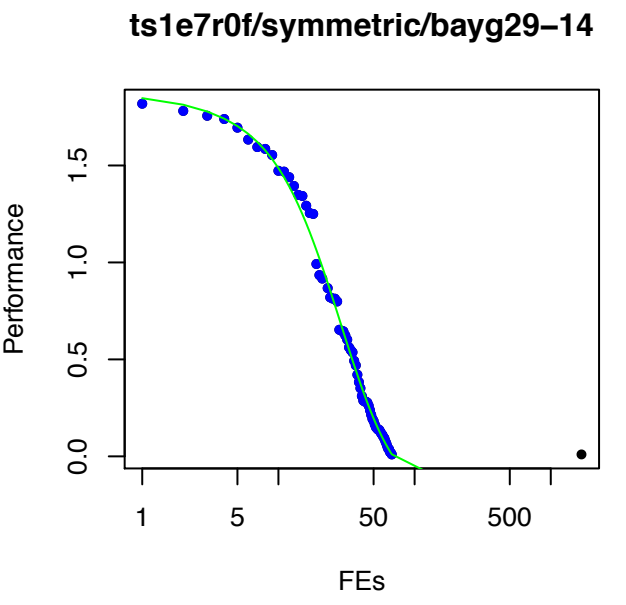
FEs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Performance
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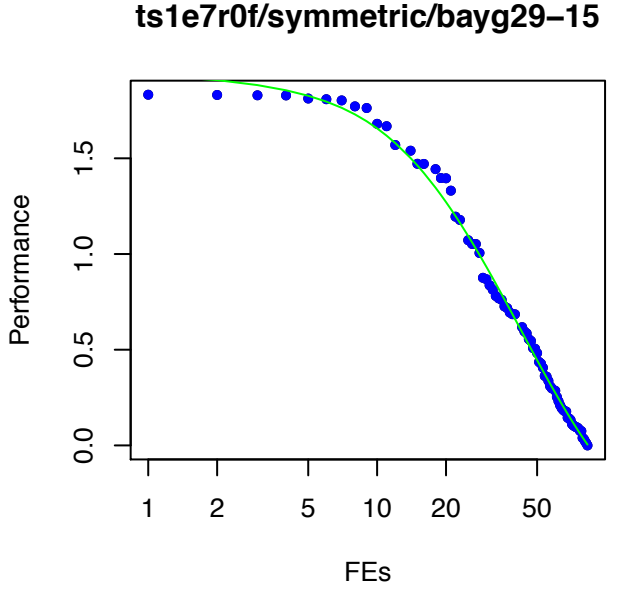
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Performance
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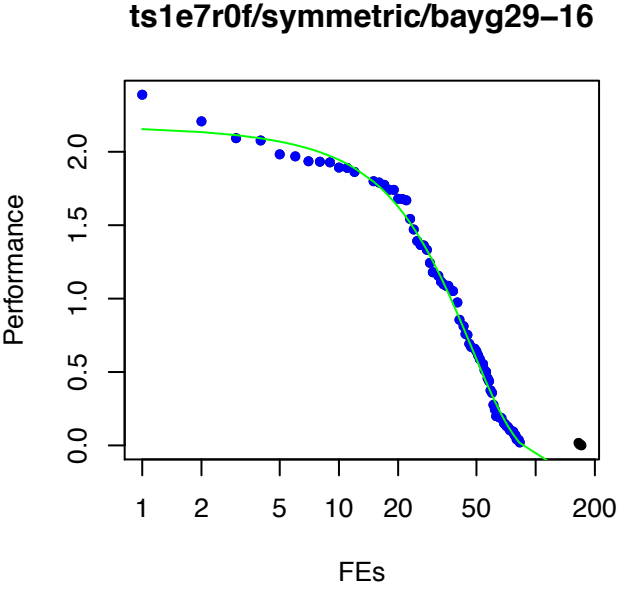
50
FEs


ts1e7r0f/symmetric/bayg29−16
Performance
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2
5
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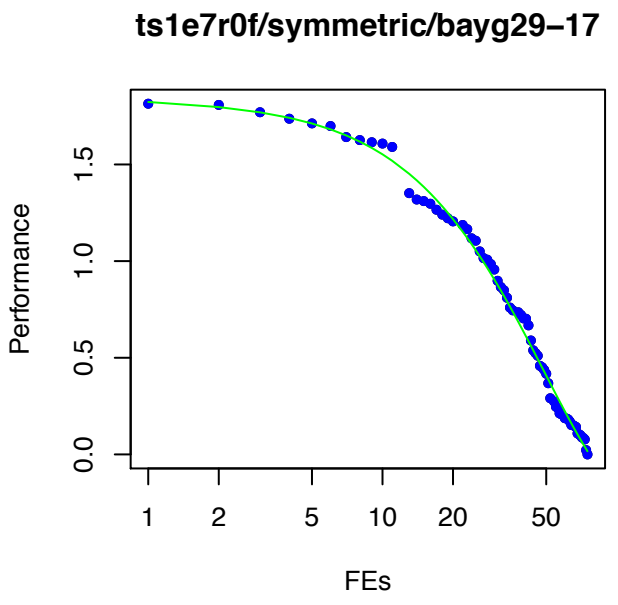
20
50
200
FEs


ts1e7r0f/symmetric/bayg29−17
Performance
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2
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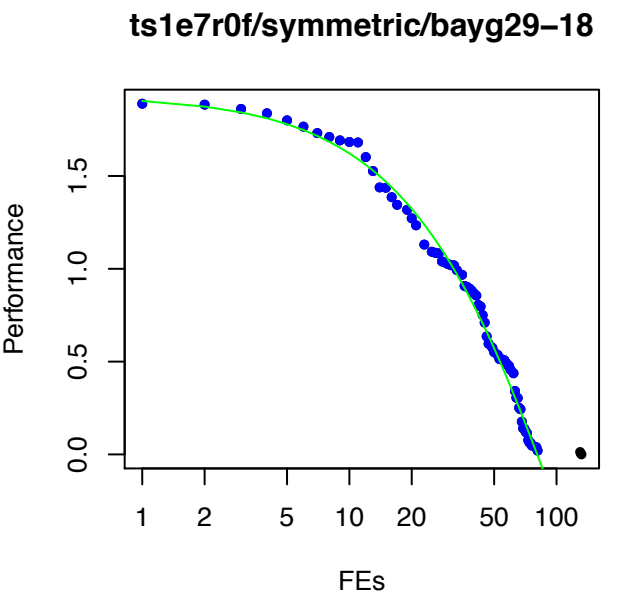
10
20
50
FEs


ts1e7r0f/symmetric/bayg29−18
Performance
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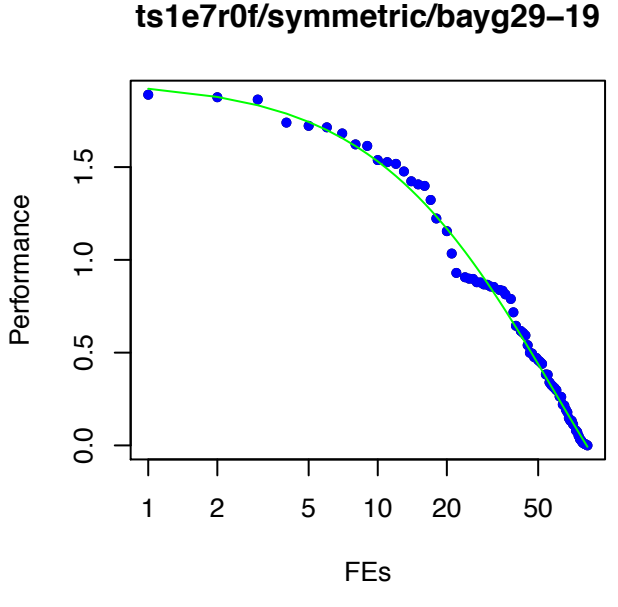
FEs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Performance
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1
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20
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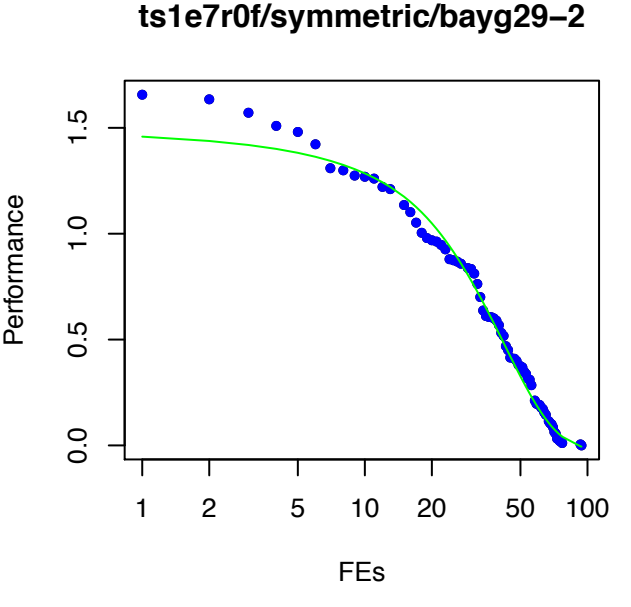
FEs


ts1e7r0f/symmetric/bayg29−2
Performance
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2
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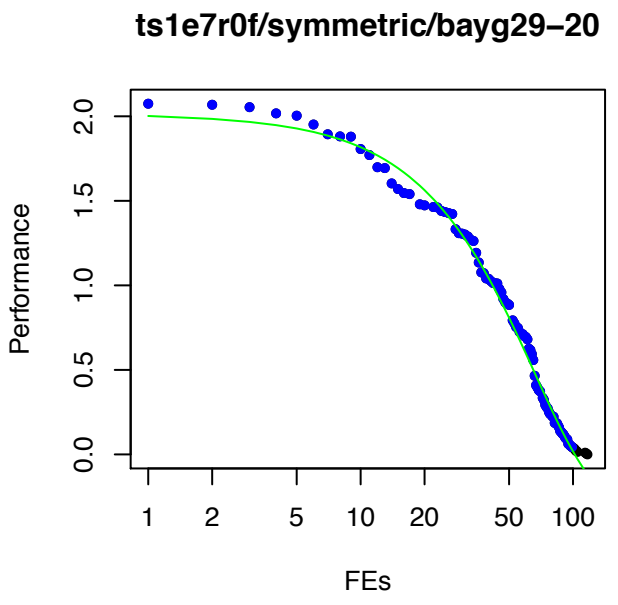
20
50
100
FEs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2
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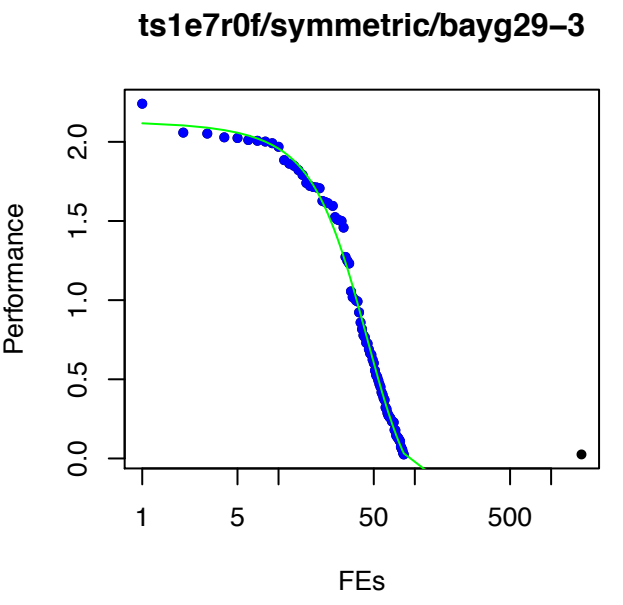
10
20
50
100
FEs


ts1e7r0f/symmetric/bayg29−3
Performance
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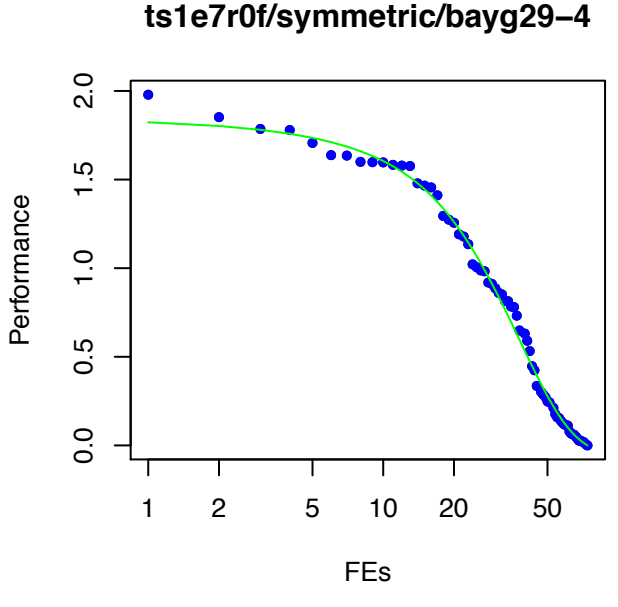
1.0
1.5
2.0
1
5
50
500
FEs


ts1e7r0f/symmetric/bayg29−4
Performance
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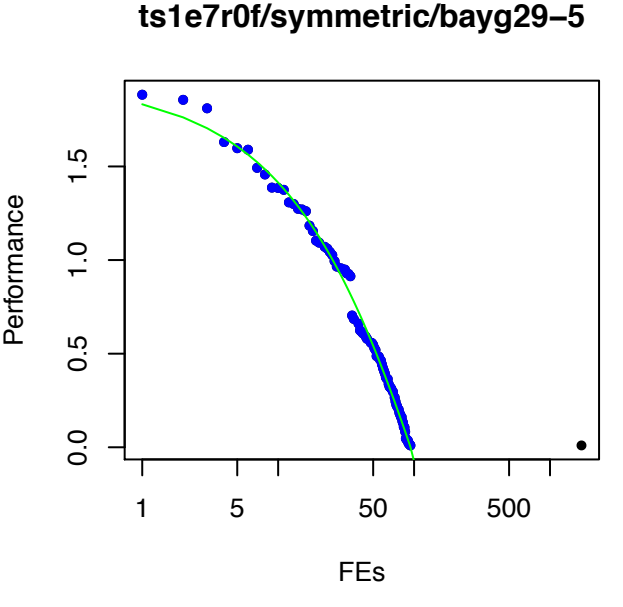
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/bayg29−5
Performance
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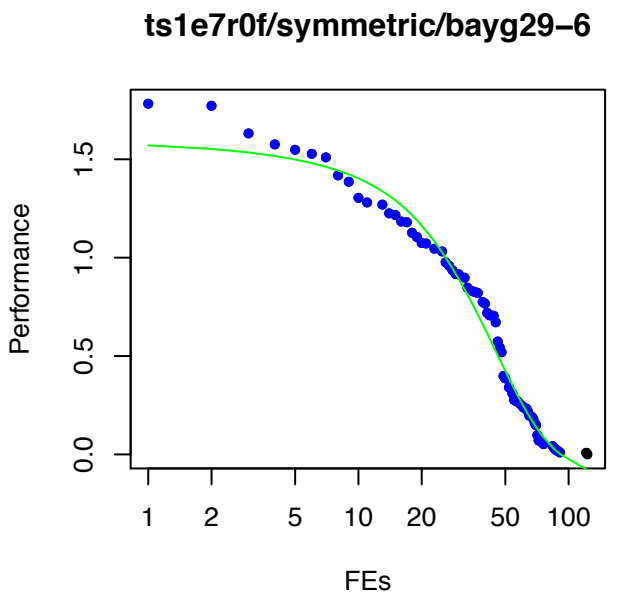
1.0
1.5
1
5
50
500
FEs


ts1e7r0f/symmetric/bayg29−6
Performance
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1.0
1.5
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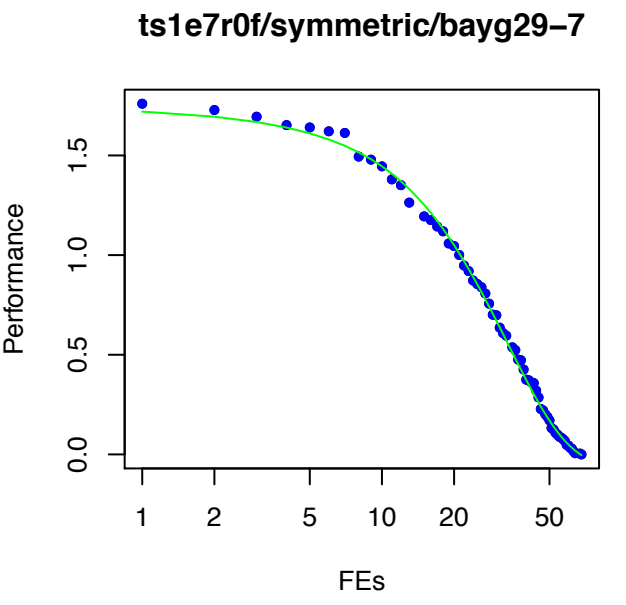
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/bayg29−7
Performance
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0.5
1.0
1.5
1
2
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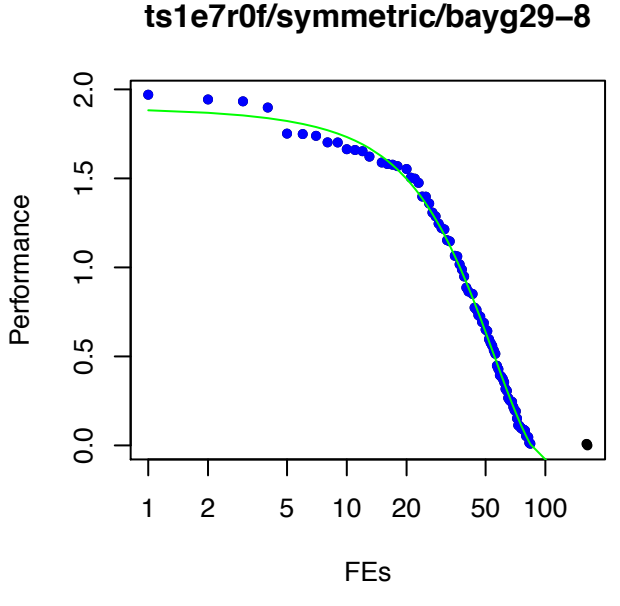
FEs


ts1e7r0f/symmetric/bayg29−8
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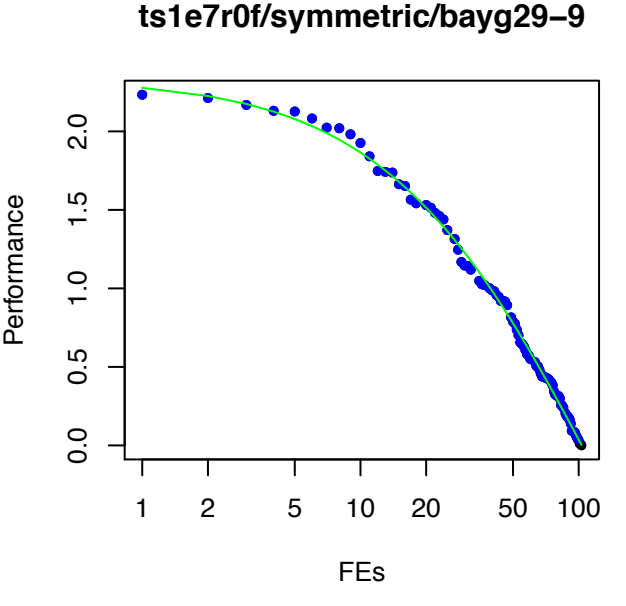
100
FEs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2
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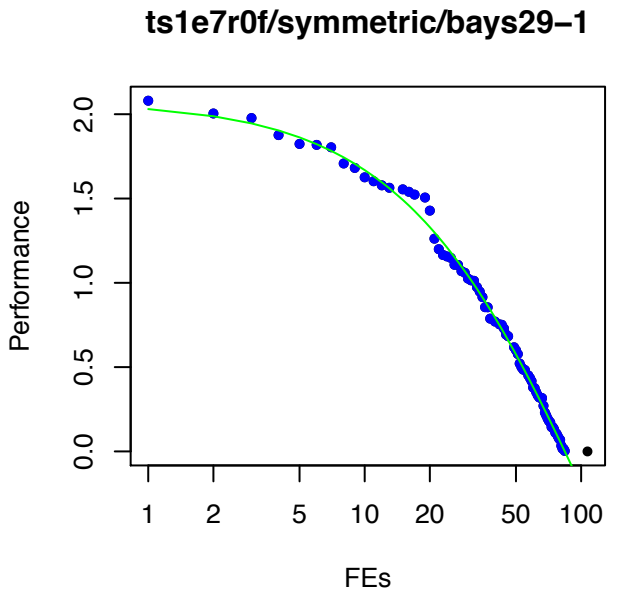
100
FEs


ts1e7r0f/symmetric/bays29−1
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1.5
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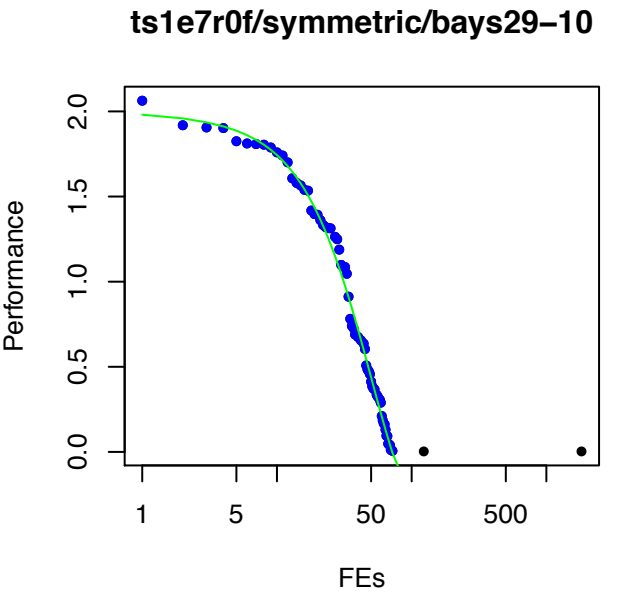
100
FEs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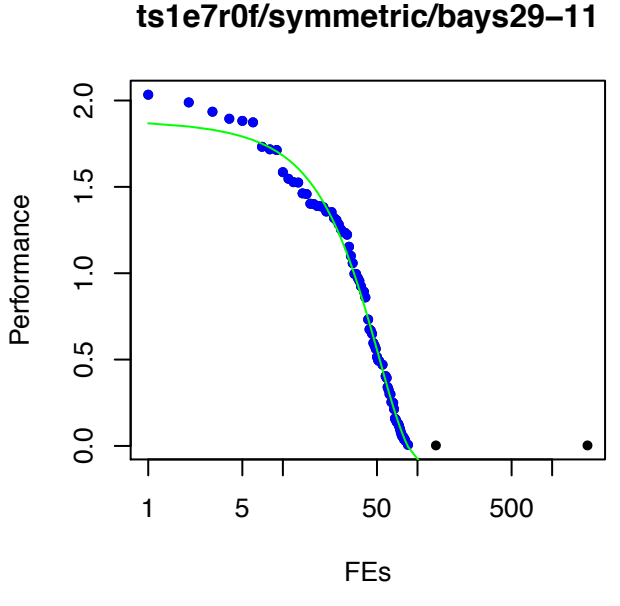
ts1e7r0f/symmetric/bays29−11
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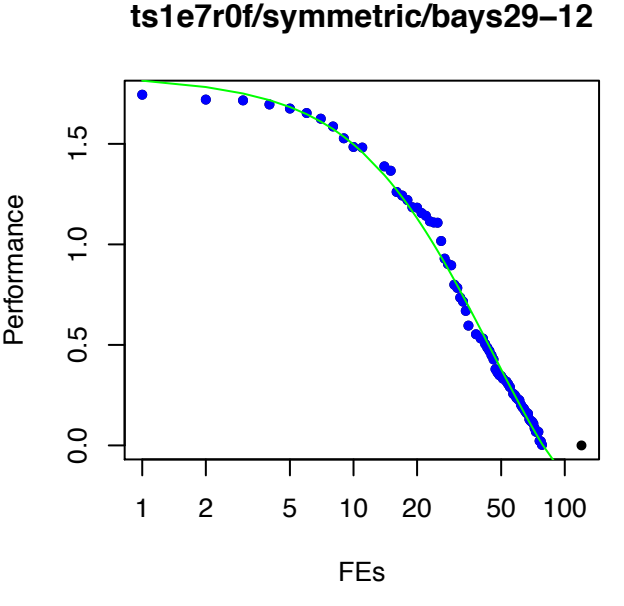
ts1e7r0f/symmetric/bays29−12
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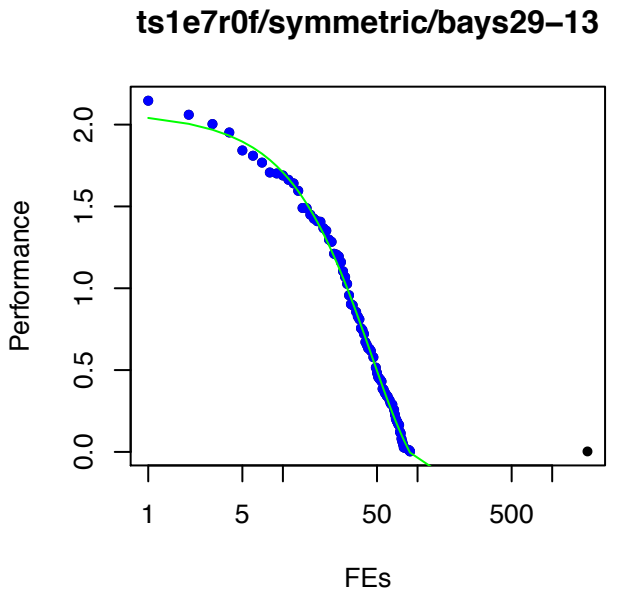
100
FEs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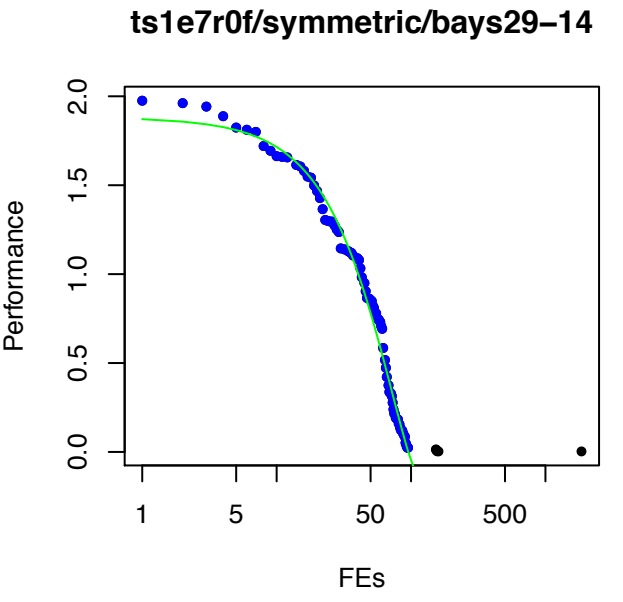
FEs


ts1e7r0f/symmetric/bays29−14
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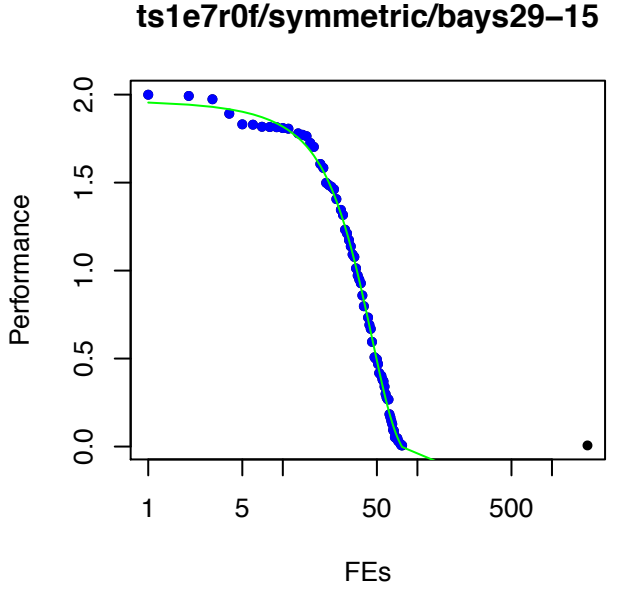
FEs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Performance
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1.0
1.5
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1
5
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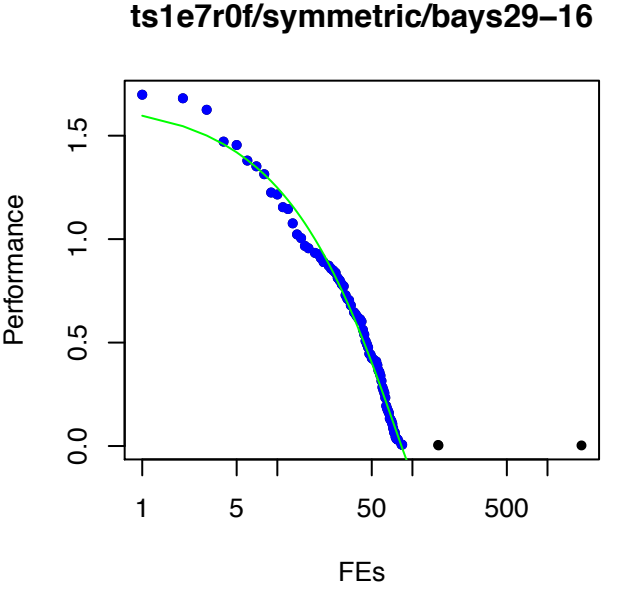
500
FEs


ts1e7r0f/symmetric/bays29−16
Performance
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1
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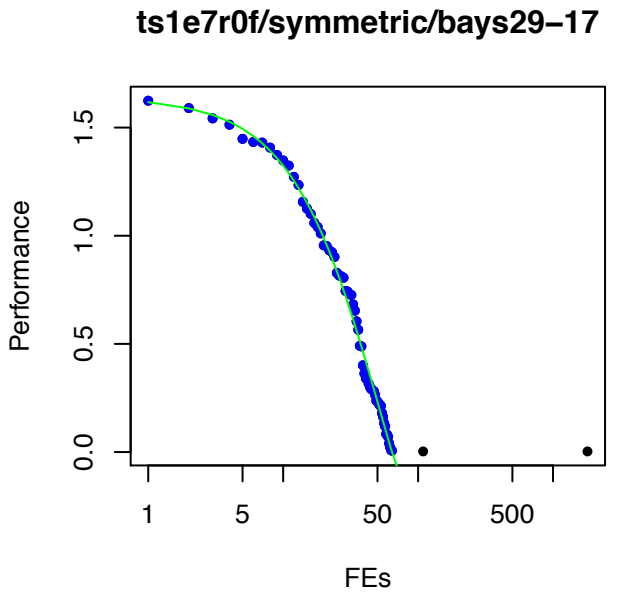
50
500
FEs


ts1e7r0f/symmetric/bays29−17
Performance
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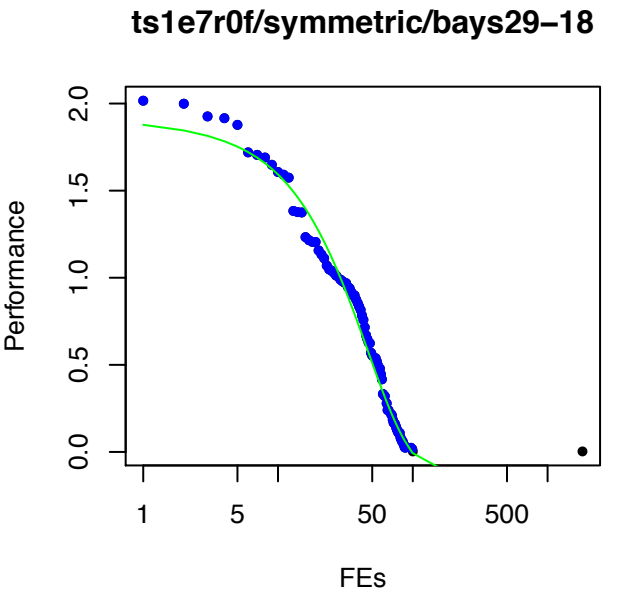
0.5
1.0
1.5
1
5
50
500
FEs


ts1e7r0f/symmetric/bays29−18
Performance
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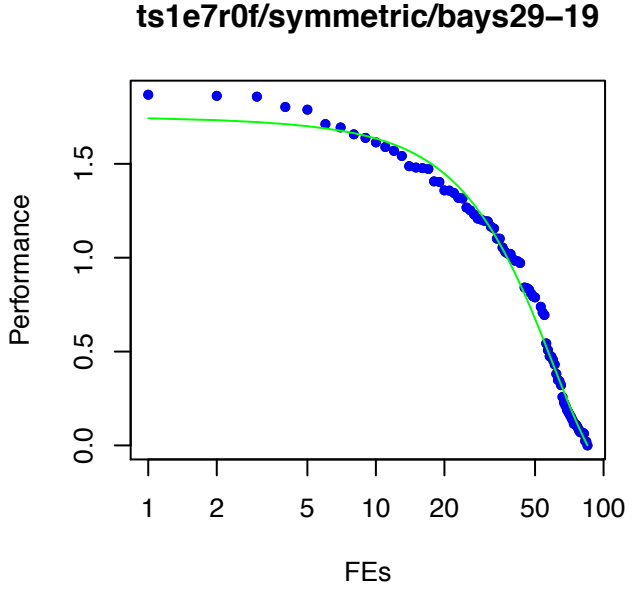
1.0
1.5
2.0
1
5
50
500
FEs


ts1e7r0f/symmetric/bays29−19
Performance
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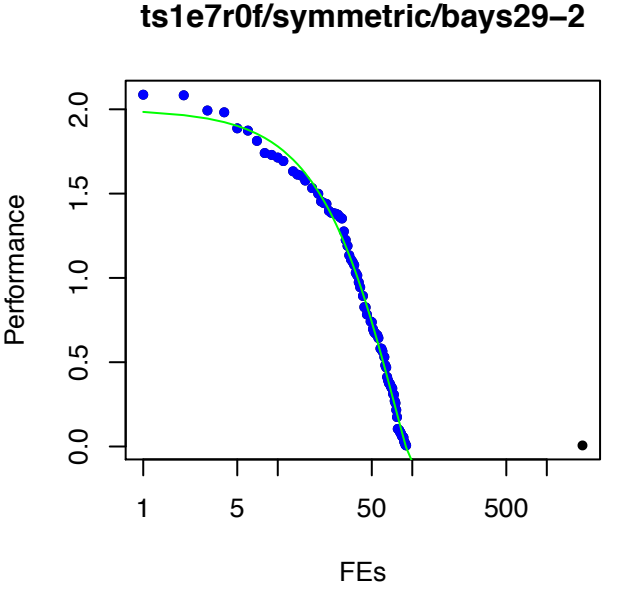
1.5
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/bays29−2
Performance
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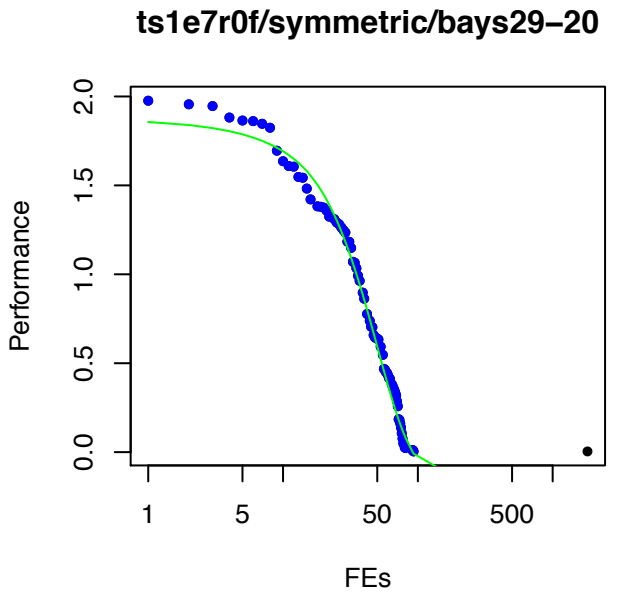
1.5
2.0
1
5
50
500
FEs


ts1e7r0f/symmetric/bays29−20
Performance
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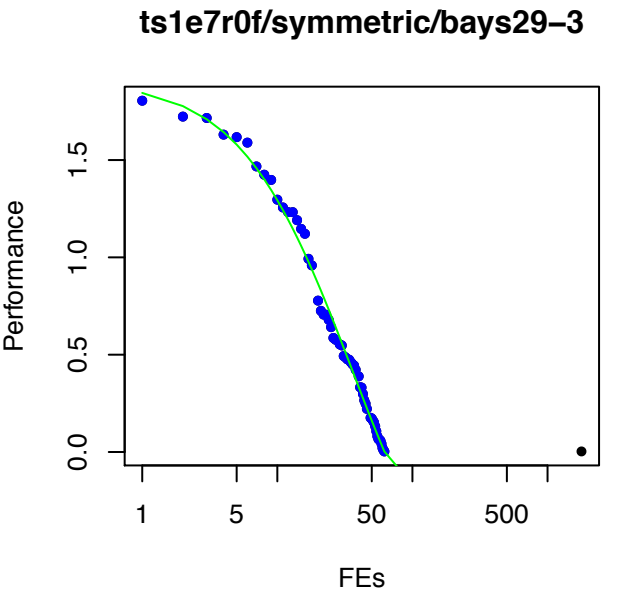
1.0
1.5
2.0
1
5
50
500
FEs


ts1e7r0f/symmetric/bays29−3
Performance
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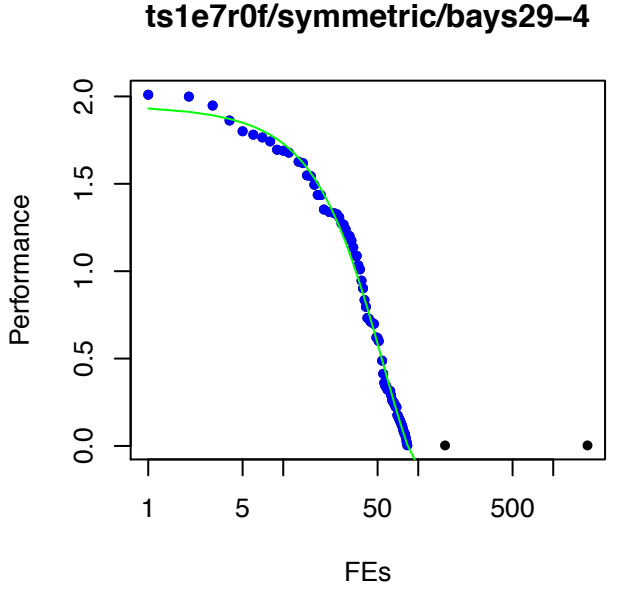
1.5
1
5
50
500
FEs


ts1e7r0f/symmetric/bays29−4
Performance
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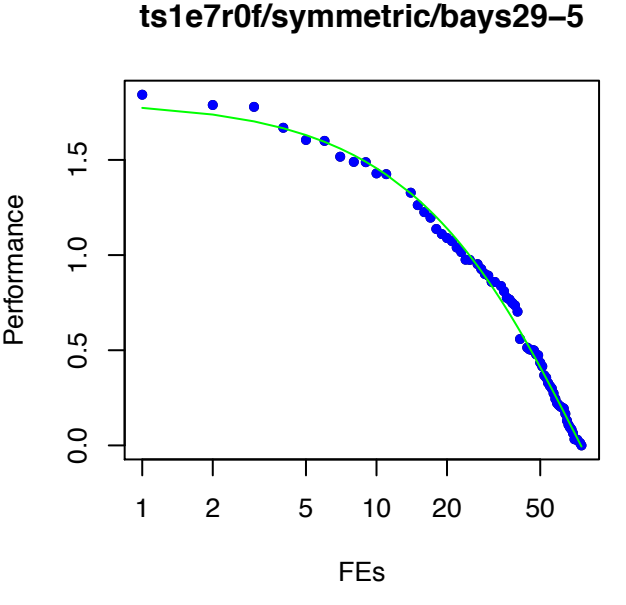
1
5
50
500
FEs


ts1e7r0f/symmetric/bays29−5
Performance
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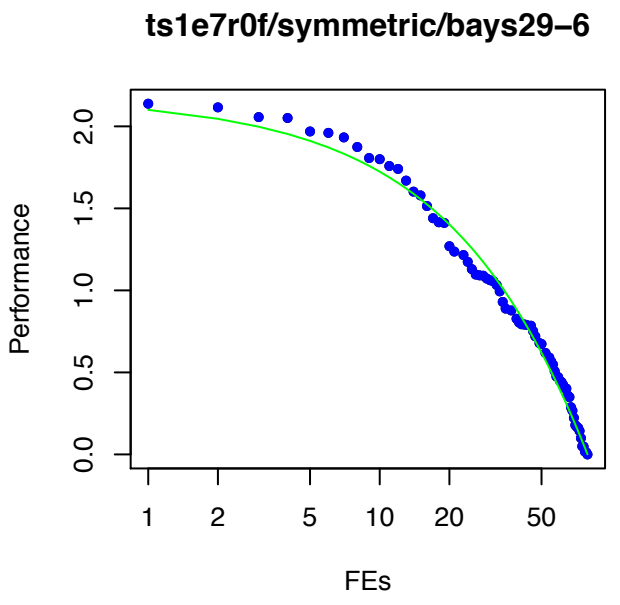
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/bays29−6
Performance
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1.5
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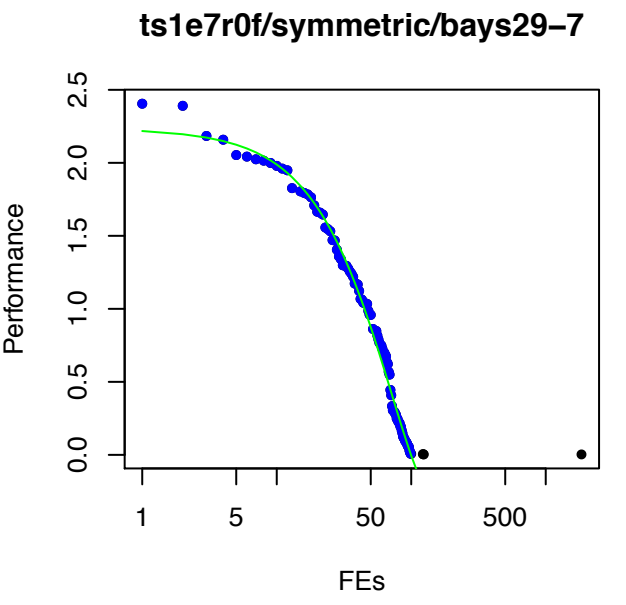
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/bays29−7
Performance
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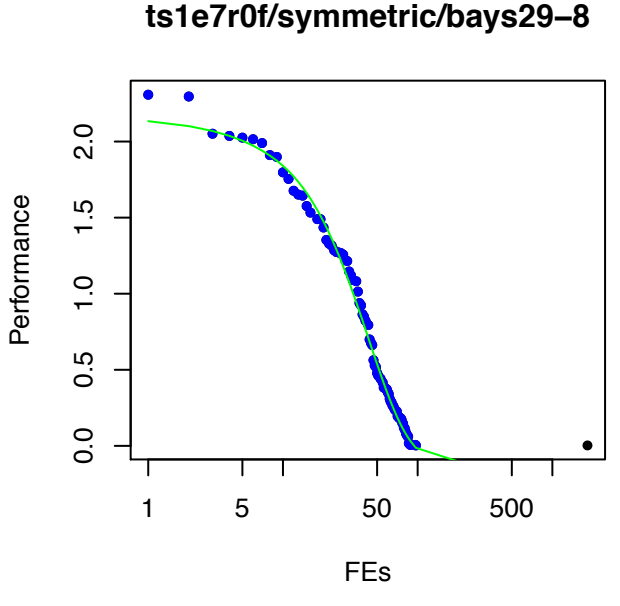
500
FEs


ts1e7r0f/symmetric/bays29−8
Performance
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5
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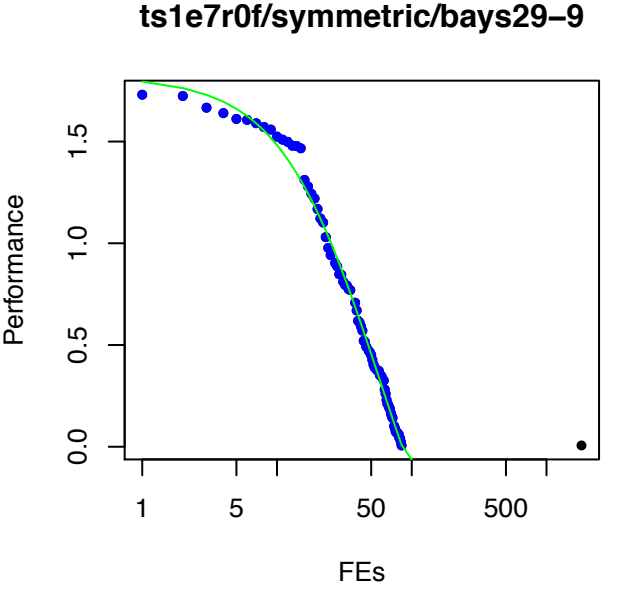
500
FEs


ts1e7r0f/symmetric/bays29−9
Performance
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5
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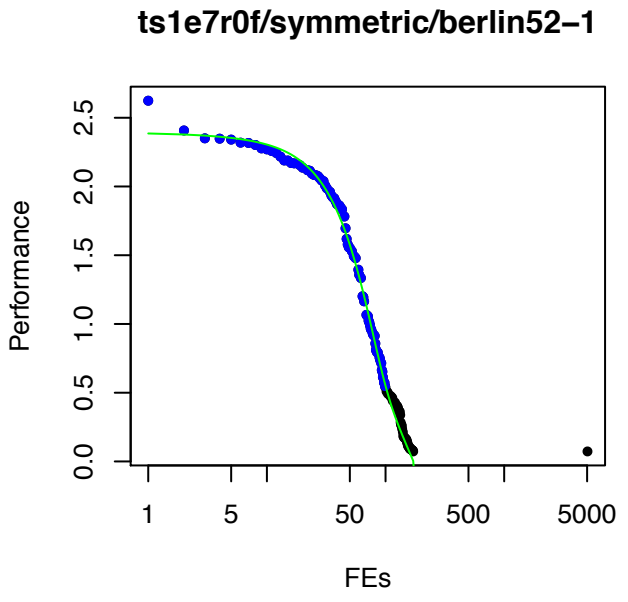
500
FEs


ts1e7r0f/symmetric/berlin52−1
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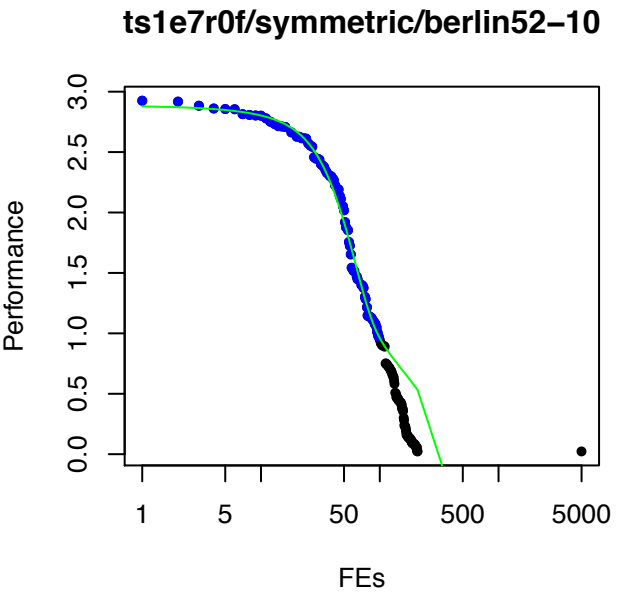
1.5
2.0
2.5
1
5
50
500
5000
FEs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Performance
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2.5
3.0
1
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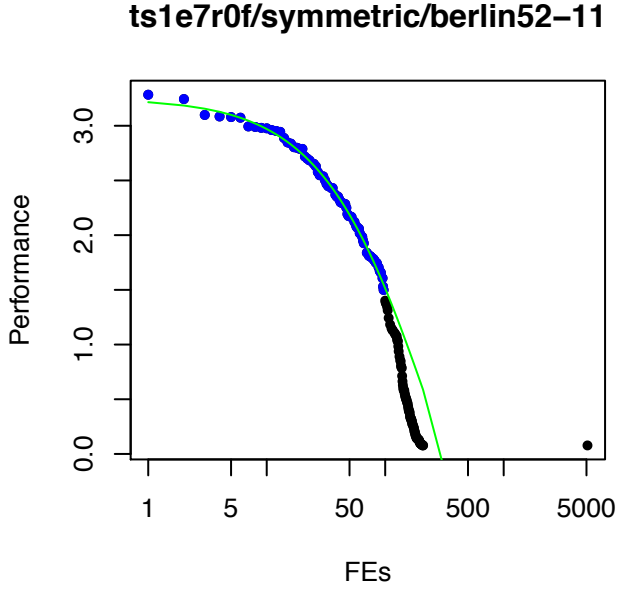
50
500
5000
FEs


ts1e7r0f/symmetric/berlin52−11
Performance
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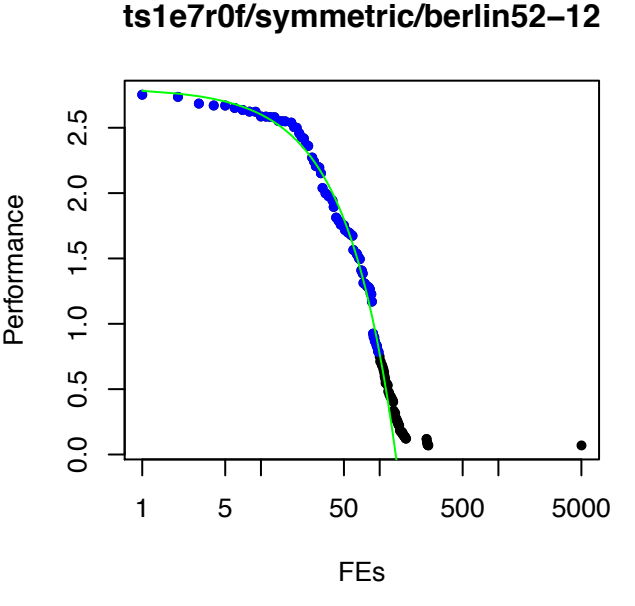
FEs


ts1e7r0f/symmetric/berlin52−12
Performance
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2.5
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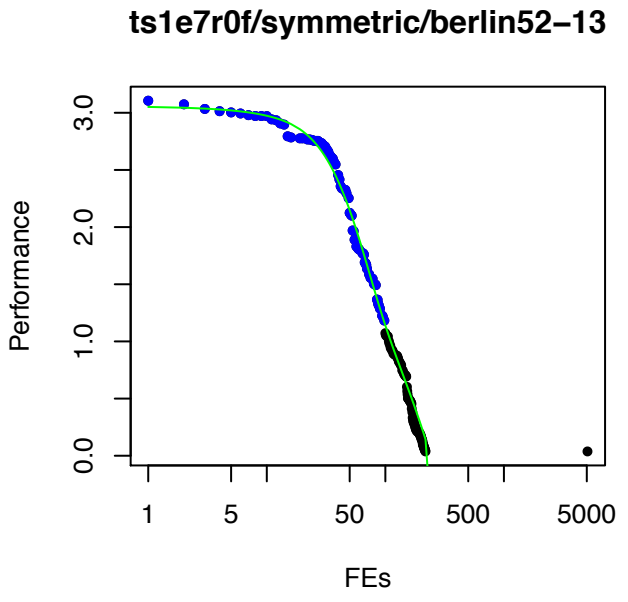
500
5000
FEs


ts1e7r0f/symmetric/berlin52−13
Performance
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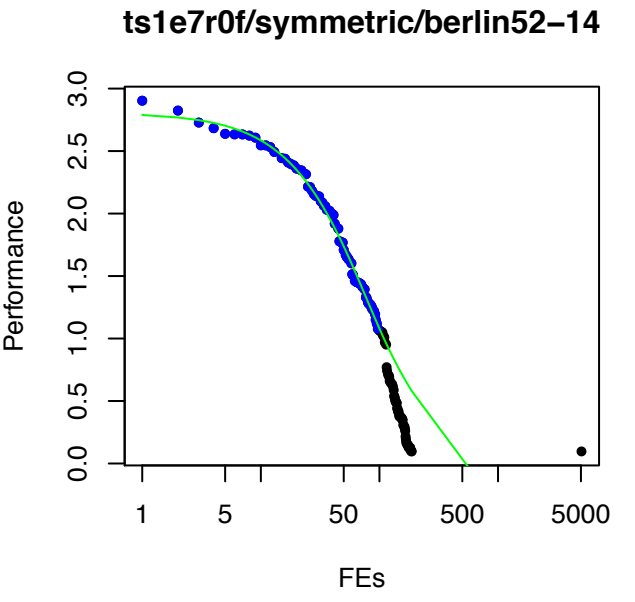
500
5000
FEs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Performance
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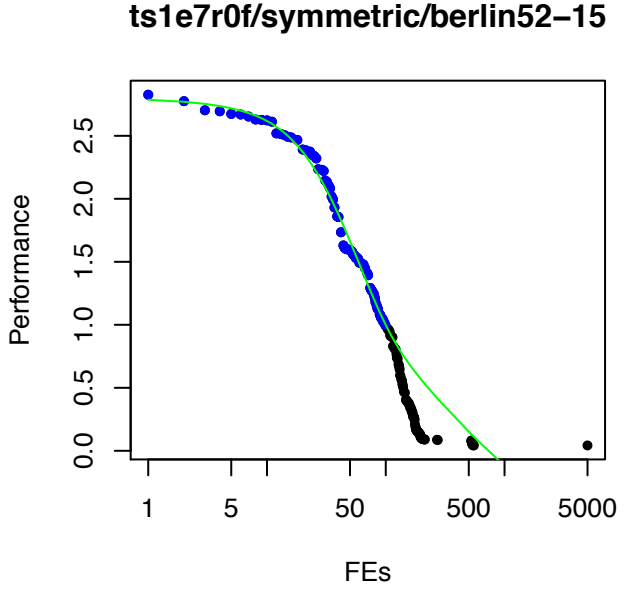
500
5000
FEs


ts1e7r0f/symmetric/berlin52−15
Performance
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2.5
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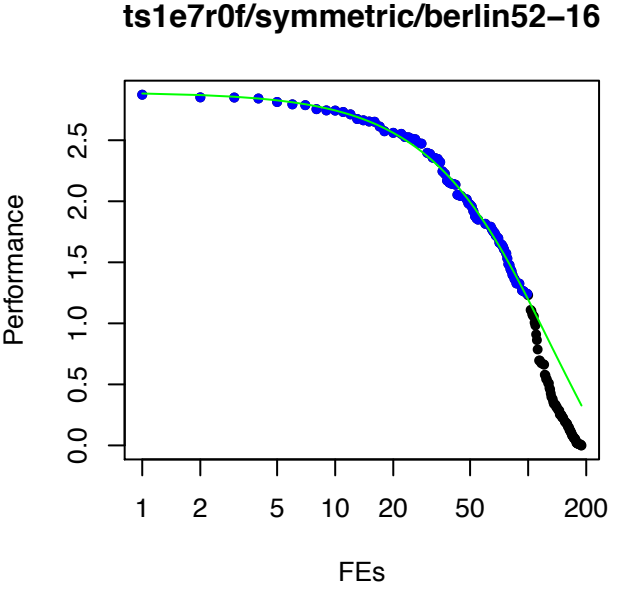
5000
FEs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Performance
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2.5
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2
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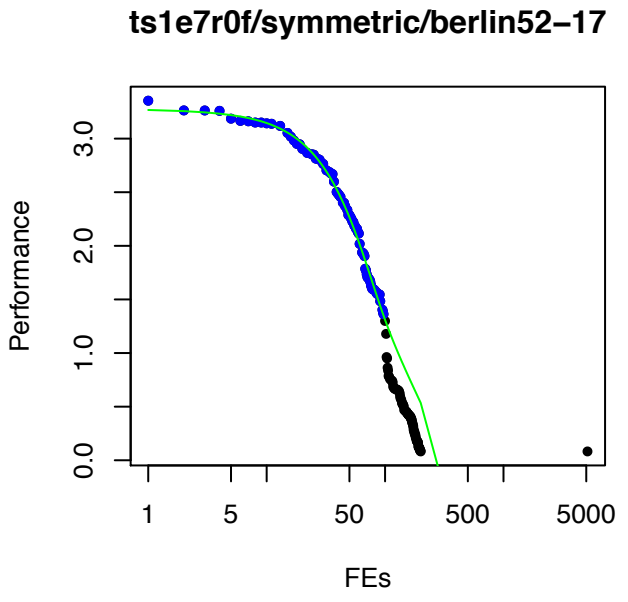
20
50
200
FEs


ts1e7r0f/symmetric/berlin52−17
Performance
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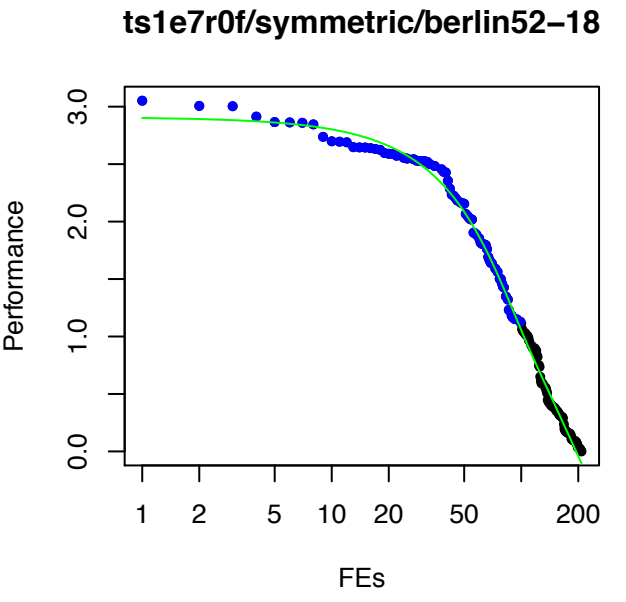
500
5000
FEs


ts1e7r0f/symmetric/berlin52−18
Performance
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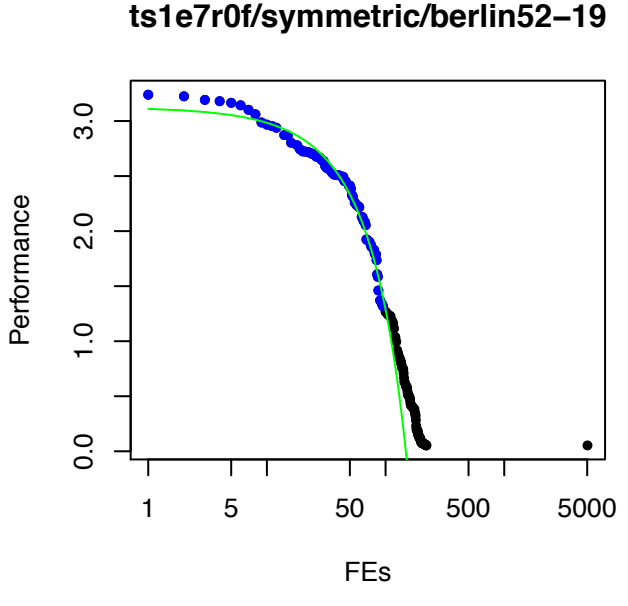
2
5
10
20
50
200
FEs


ts1e7r0f/symmetric/berlin52−19
Performance
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3.0
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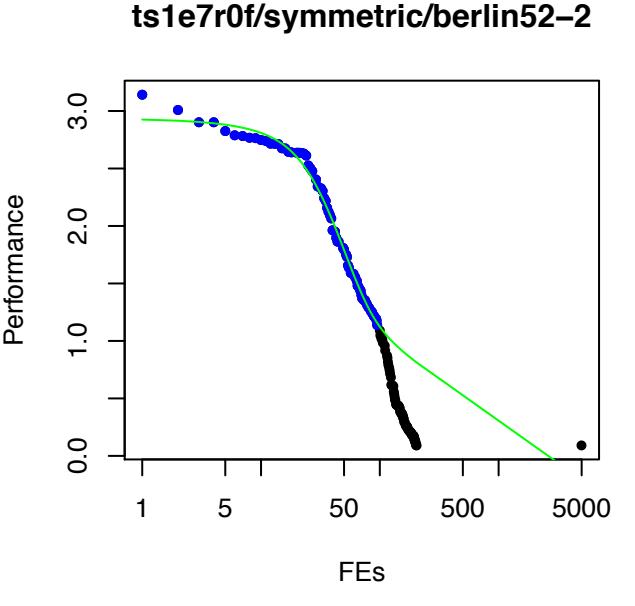
50
500
5000
FEs


ts1e7r0f/symmetric/berlin52−2
Performance
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3.0
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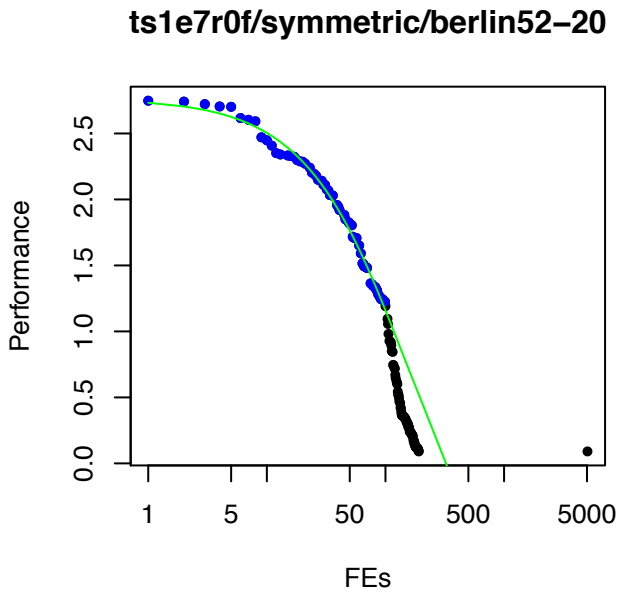
50
500
5000
FEs


ts1e7r0f/symmetric/berlin52−20
Performance
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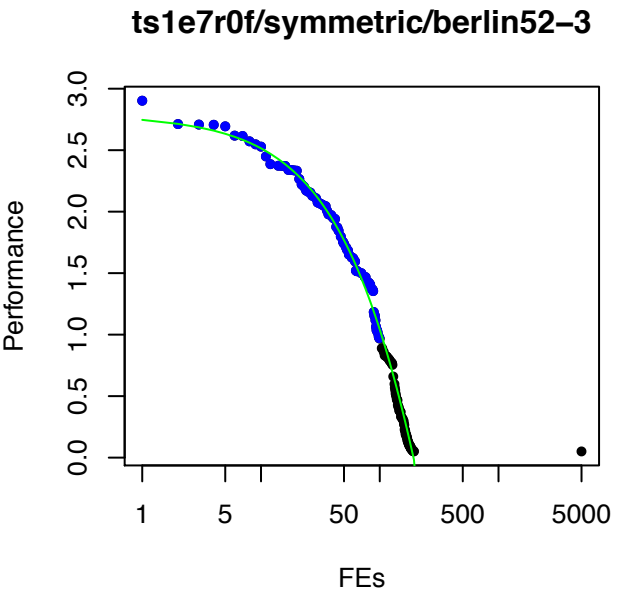
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/berlin52−3
Performance
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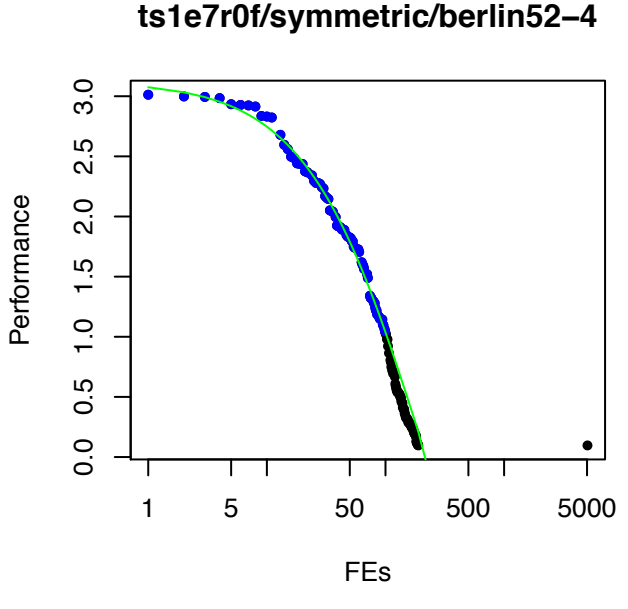
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/berlin52−4
Performance
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2.0
2.5
3.0
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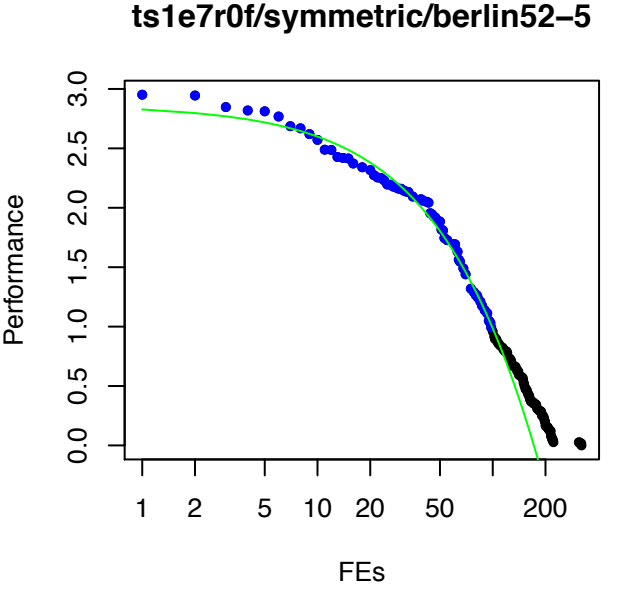
50
500
5000
FEs


ts1e7r0f/symmetric/berlin52−5
Performance
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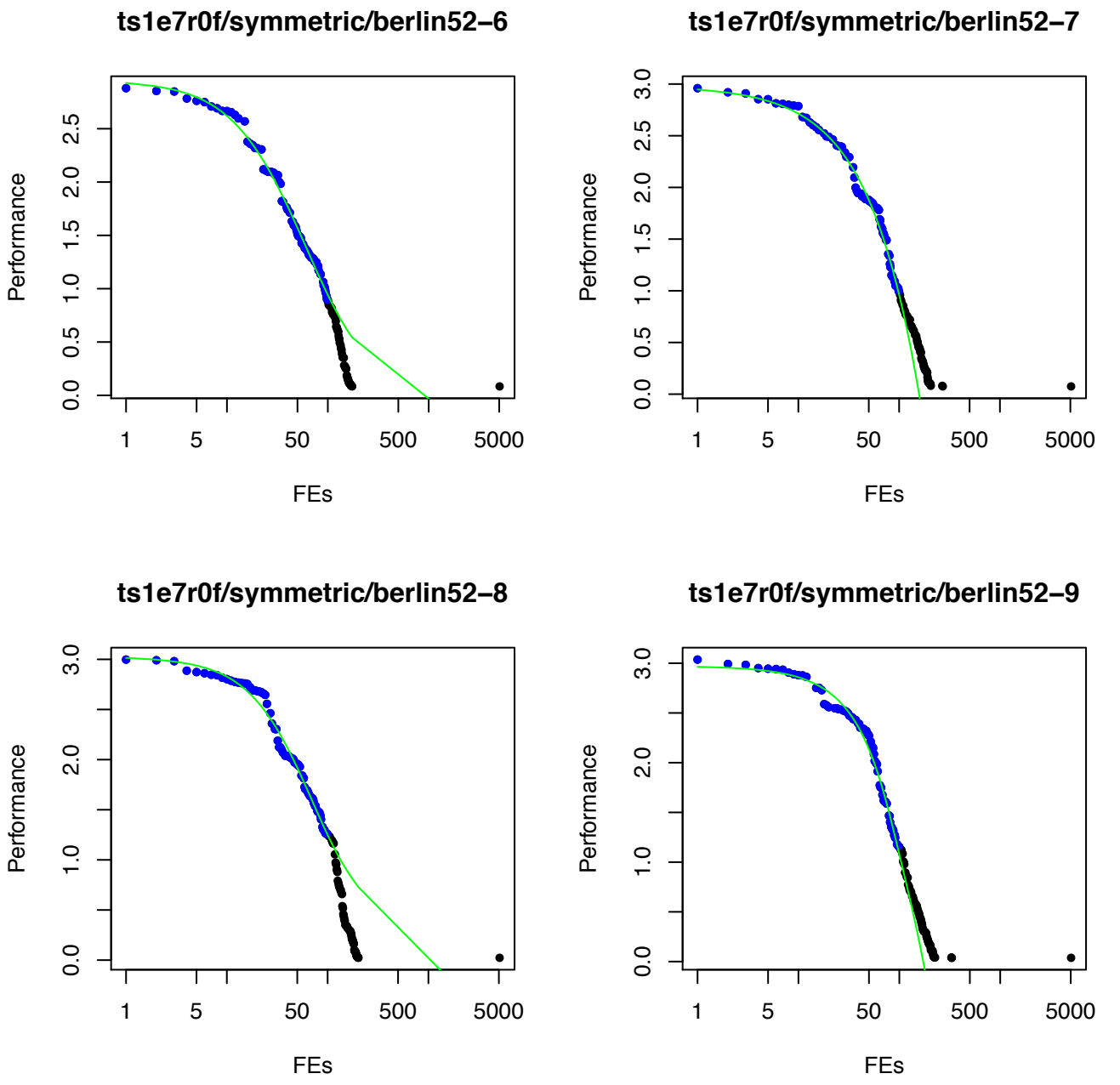
1.5
2.0
2.5
3.0
1
2
5
10
20
50
200
FEs


ts1e7r0f/symmetric/berlin52−6
ts1e7r0f/symmetric/berlin52−7
ts1e7r0f/symmetric/berlin52−8
ts1e7r0f/symmetric/berlin52−9
Performance
FEs
0.0
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
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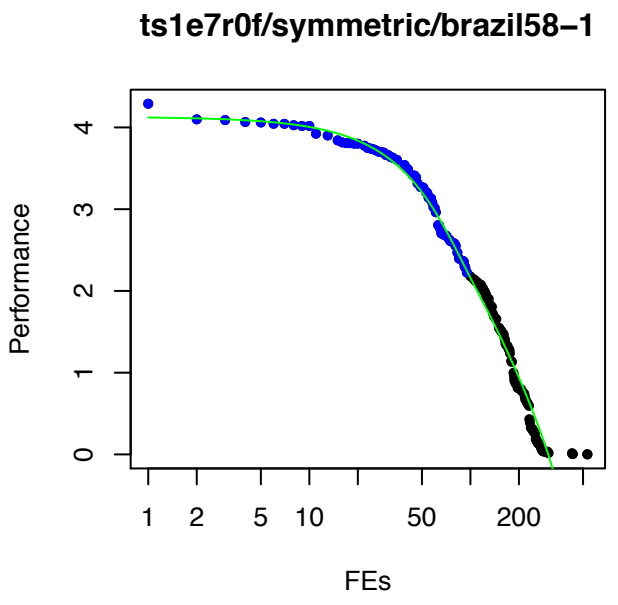
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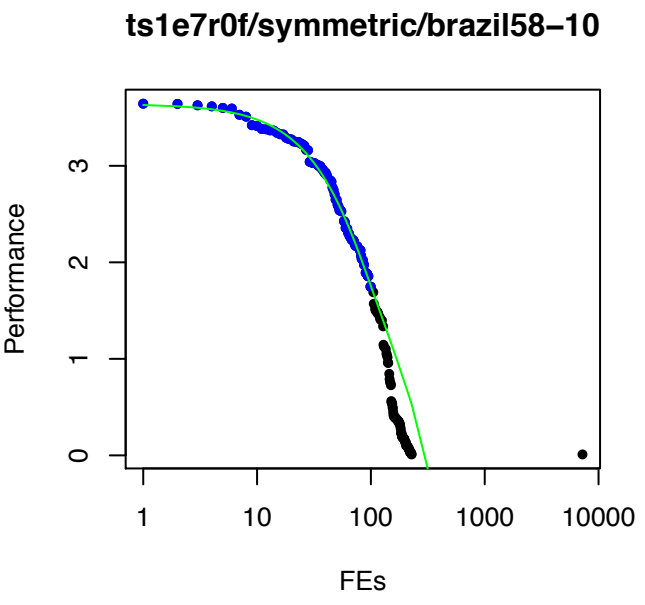
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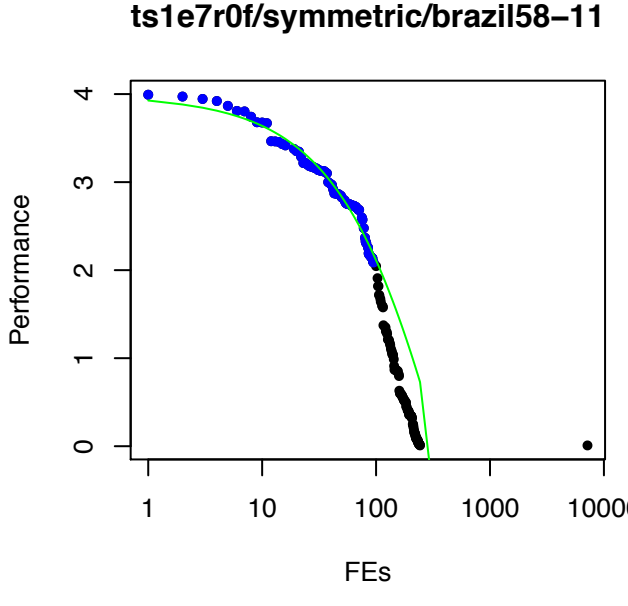
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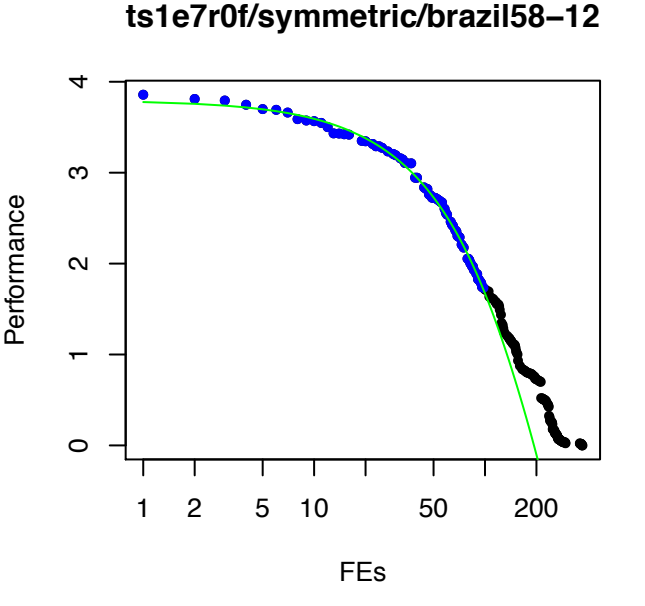
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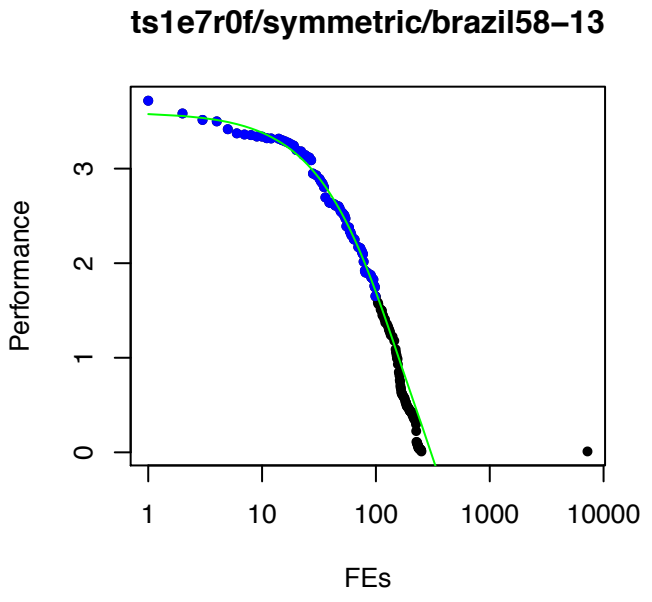
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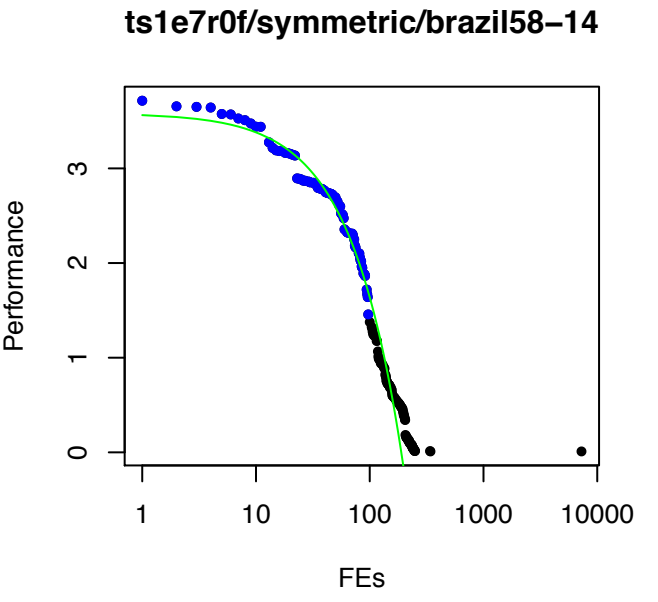
FEs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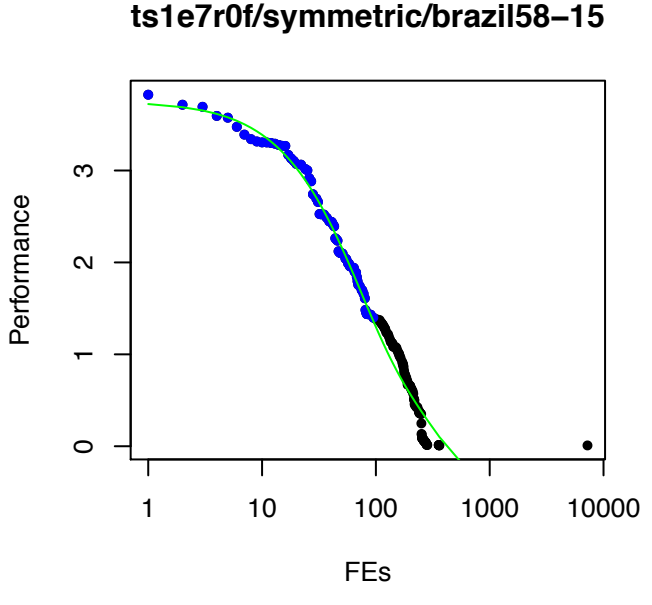
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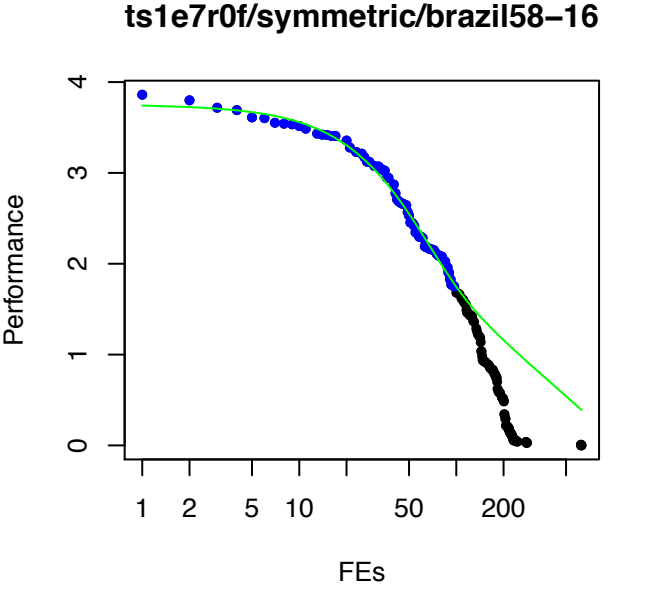
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Performance
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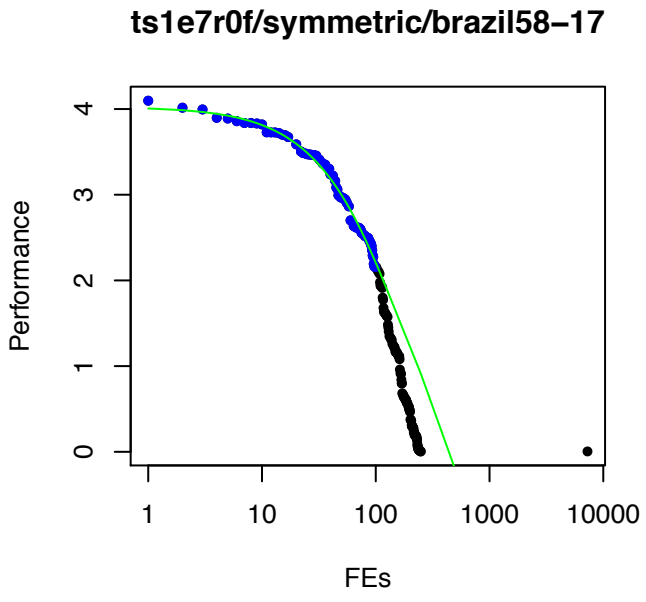
FEs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Performance
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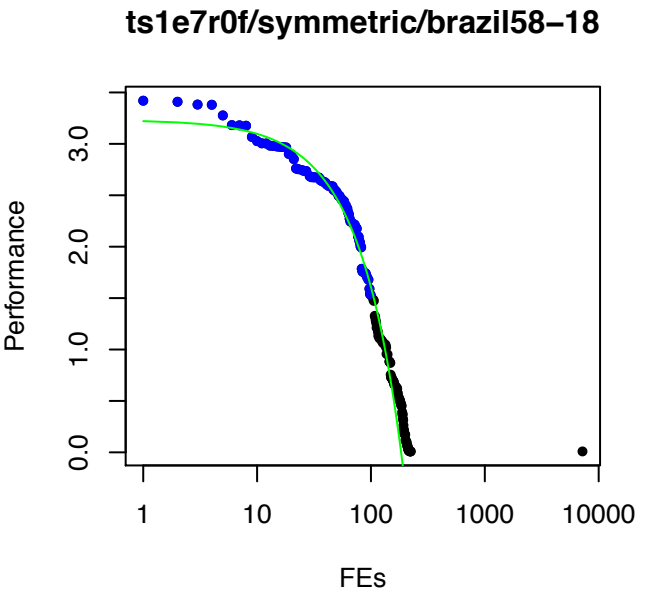
FEs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Performance
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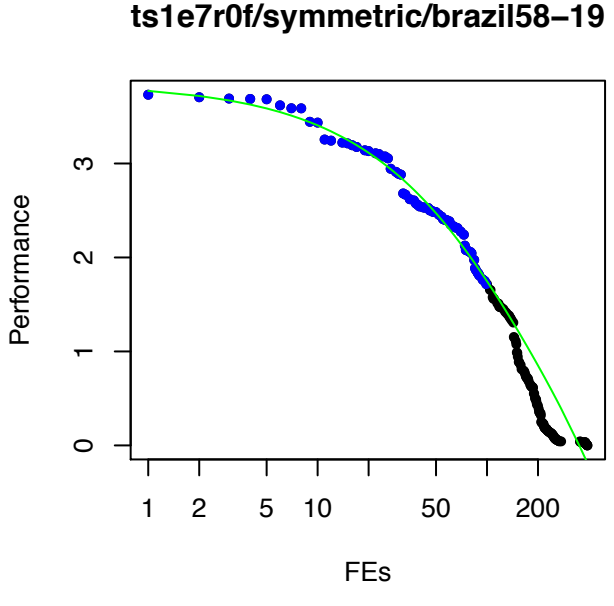
FEs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Performance
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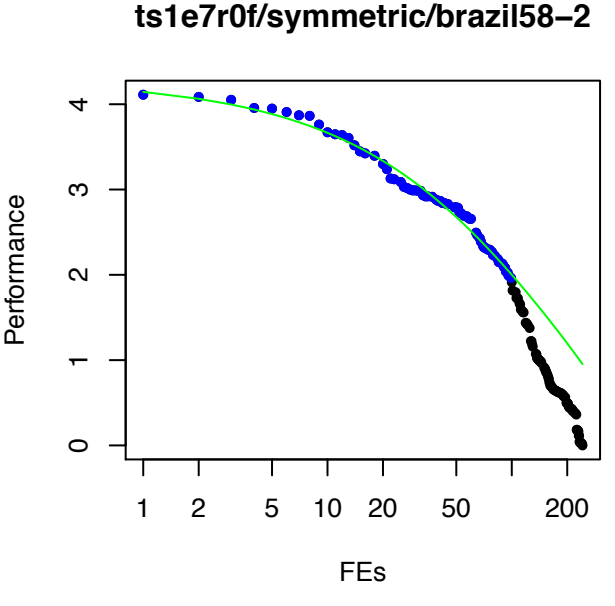
200
FEs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Performance
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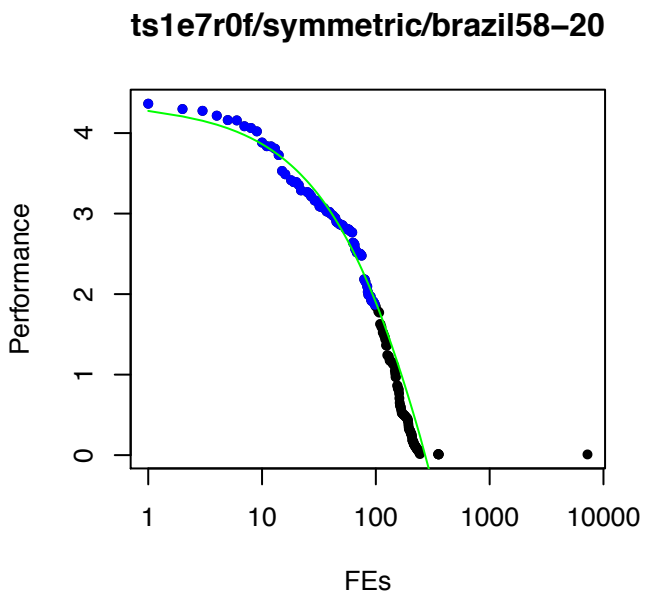
200
FEs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Performance
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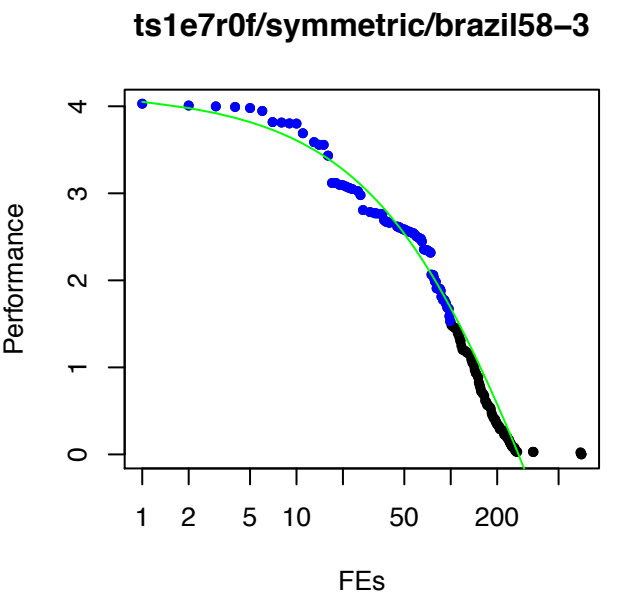
FEs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Performance
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2
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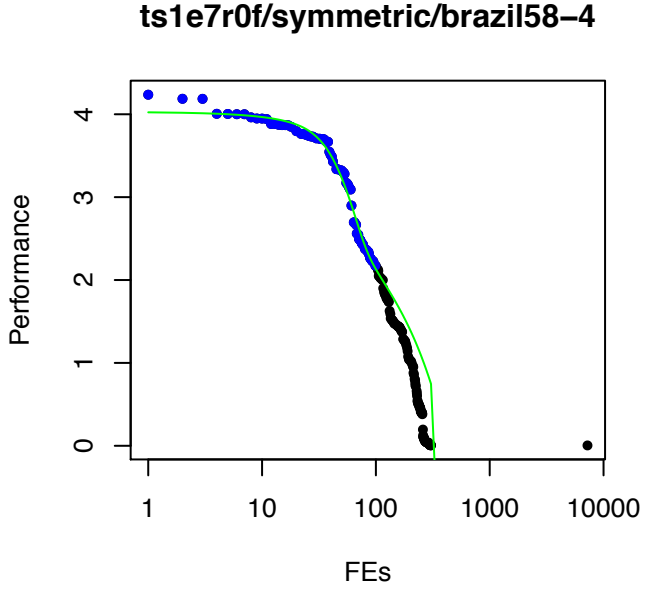
200
FEs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Performance
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4
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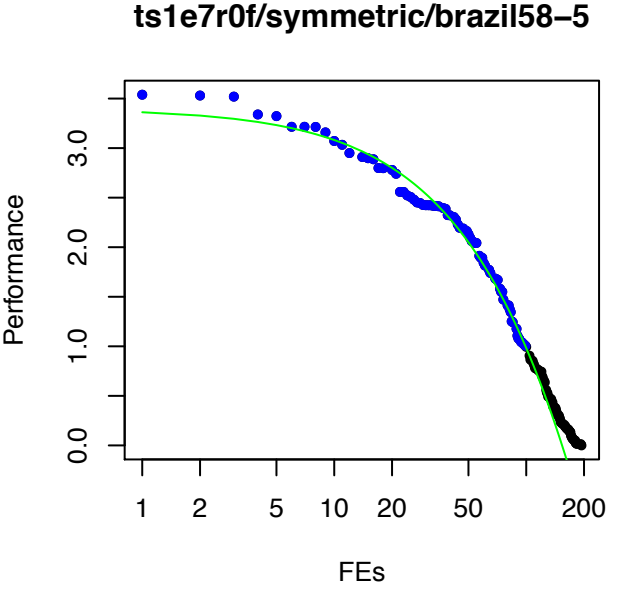
FEs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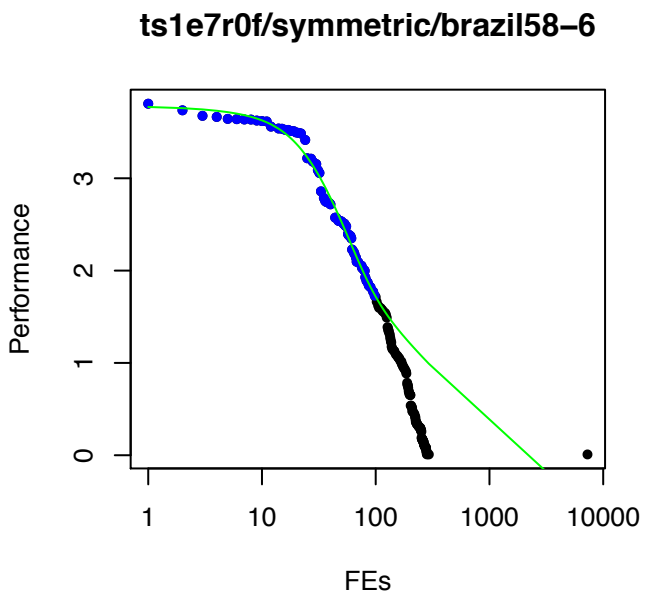
200
FEs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Performance
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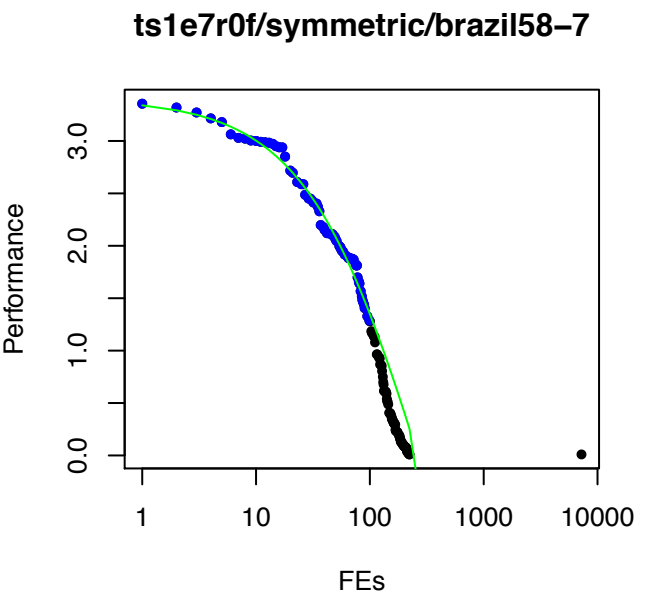
10000
FEs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Performance
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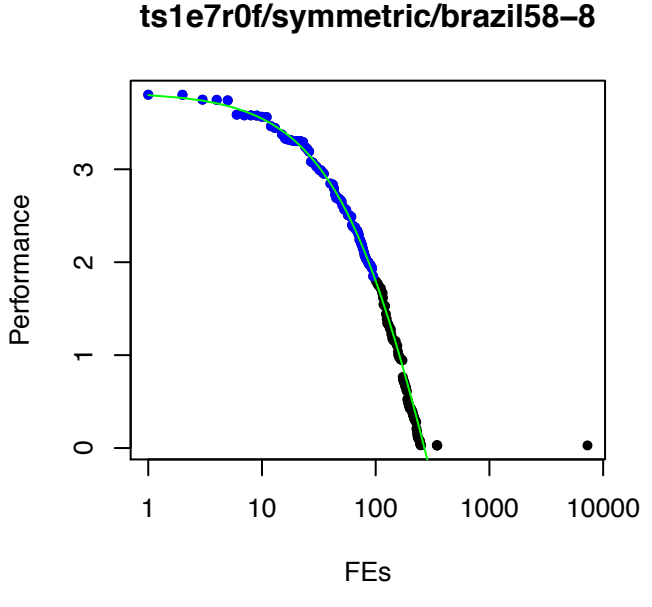
FEs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Performance
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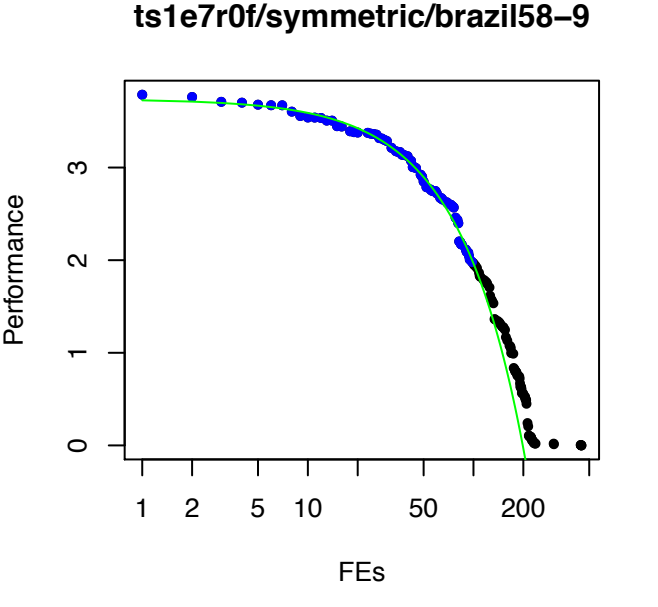
FEs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Performance
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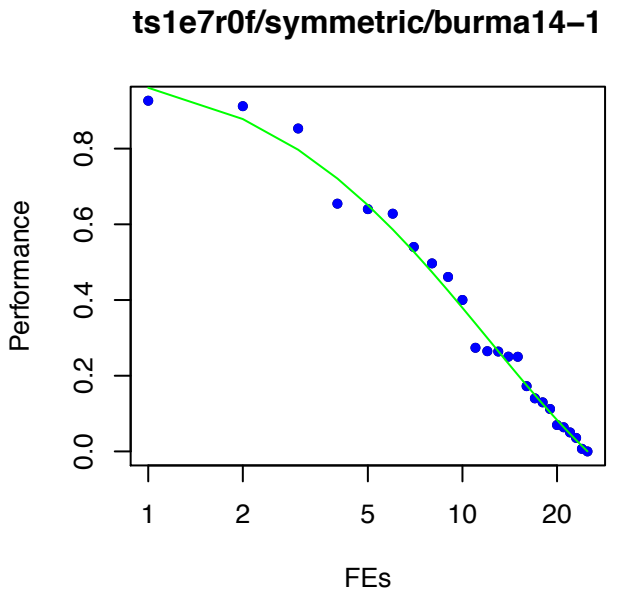
FEs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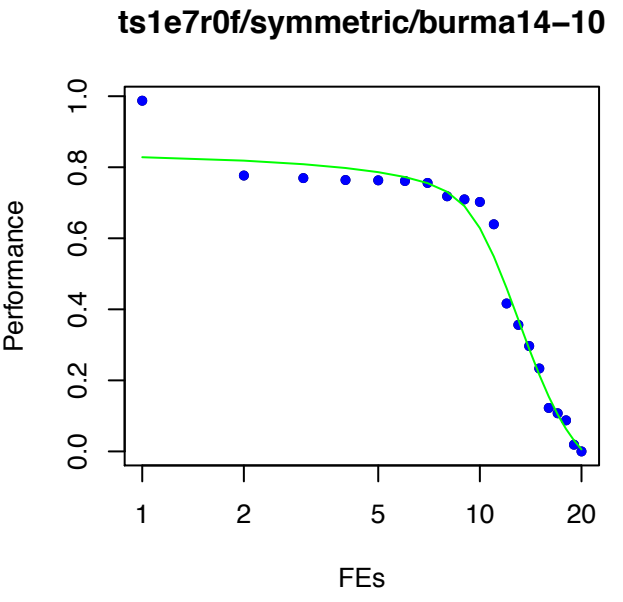
FEs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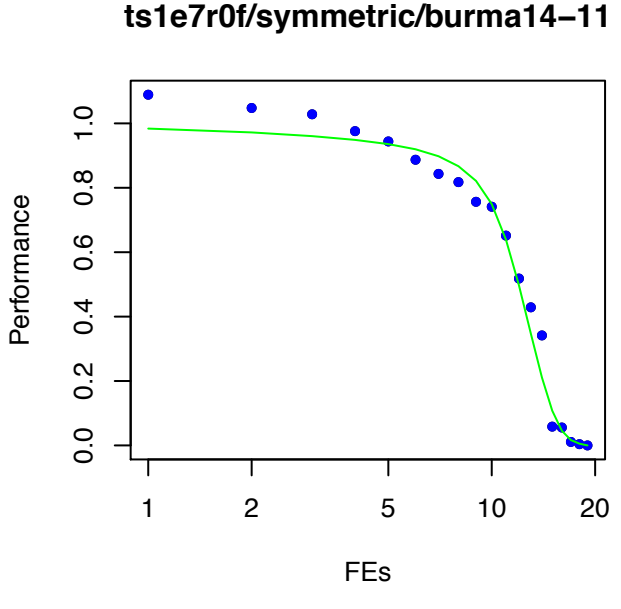
FEs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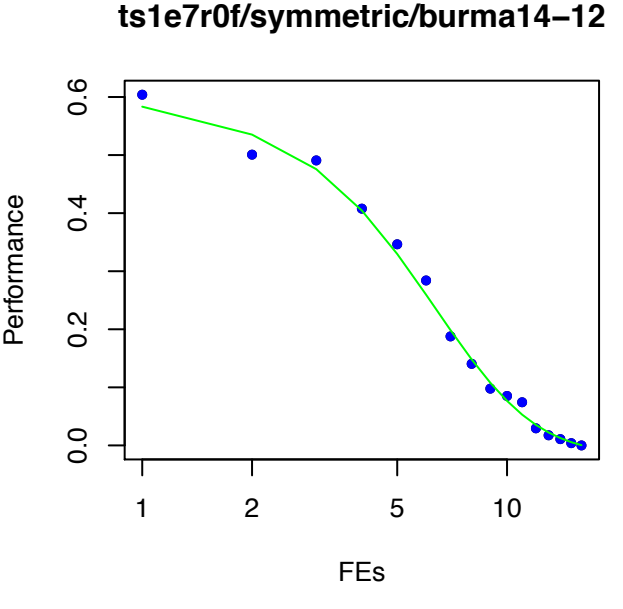
FEs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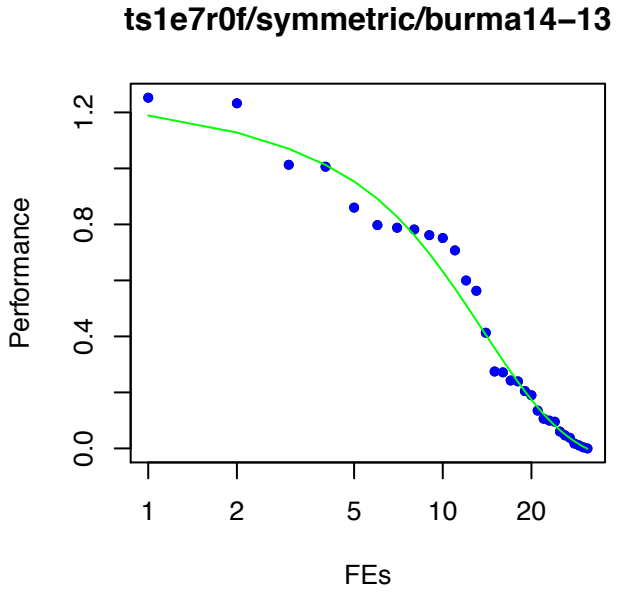
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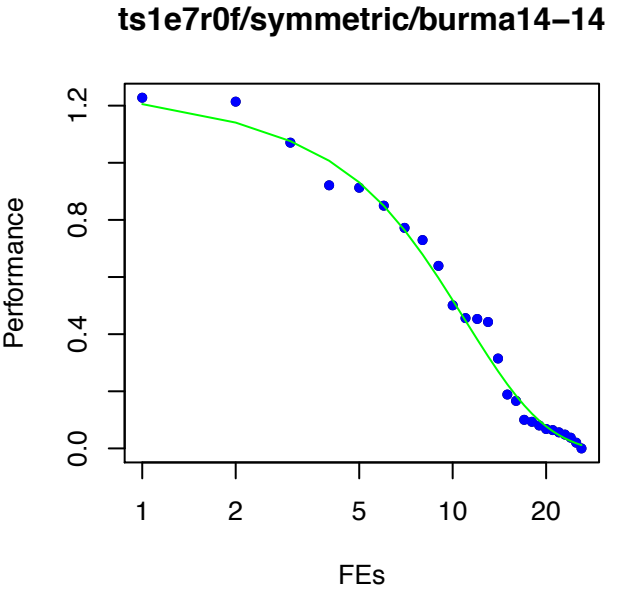
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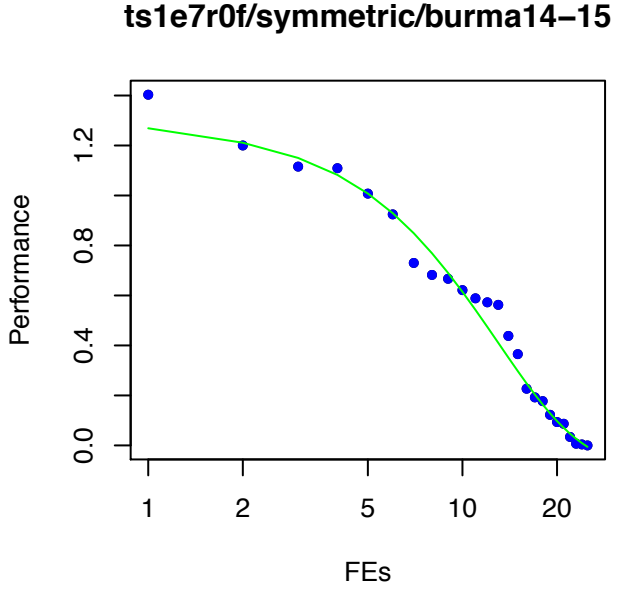
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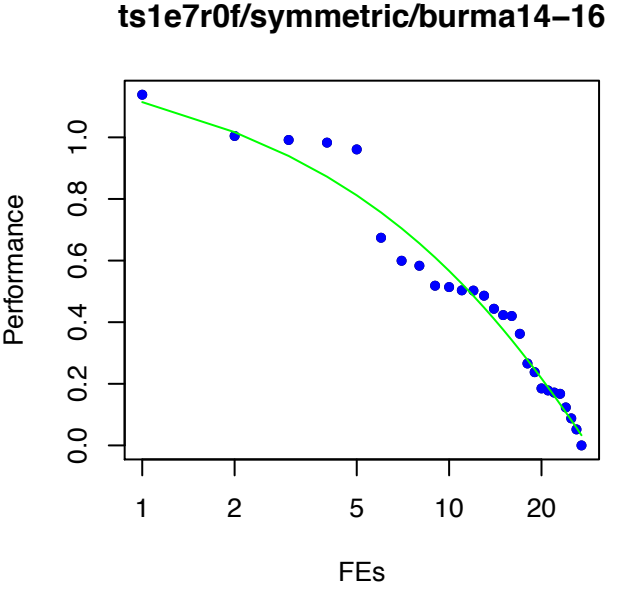
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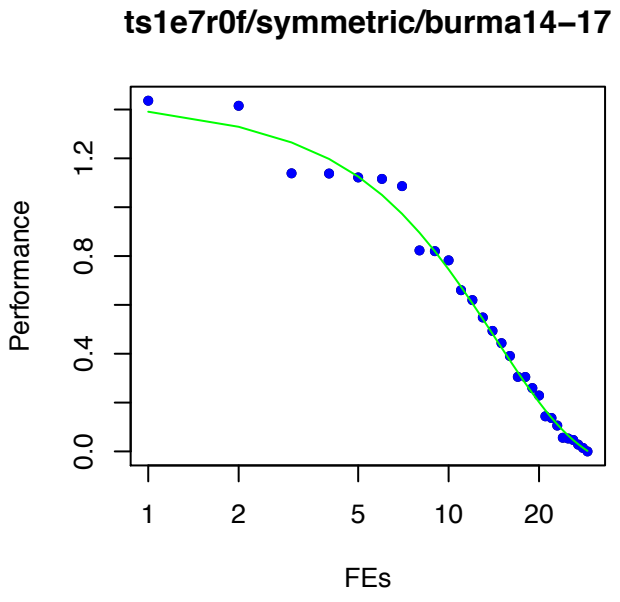
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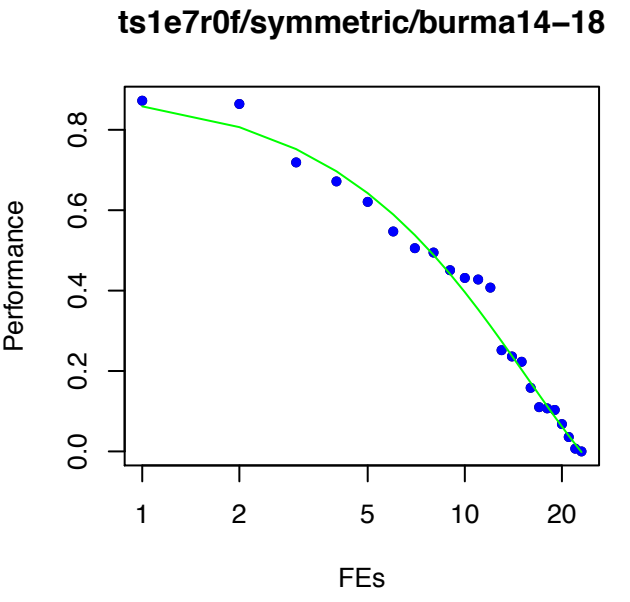
FEs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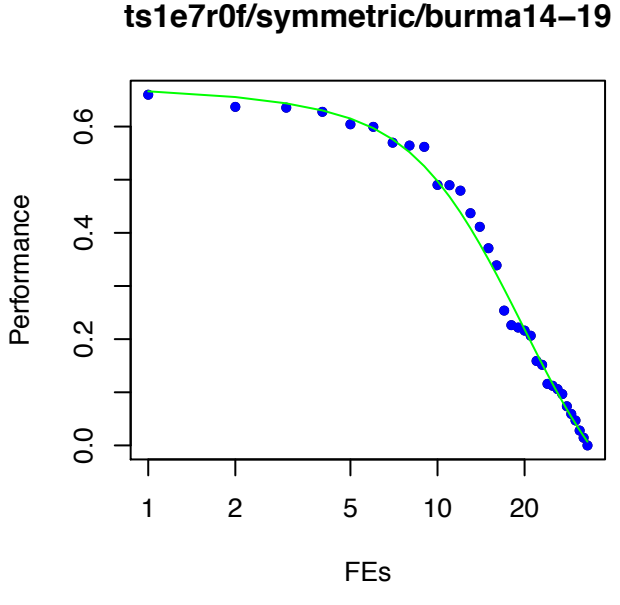
FEs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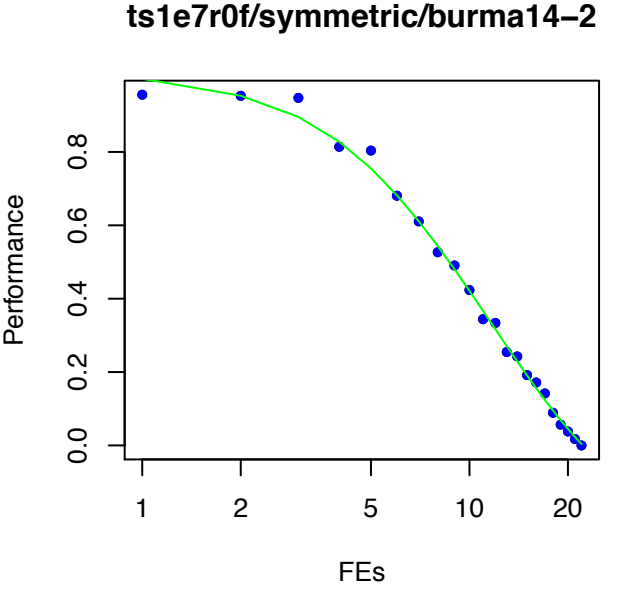
FEs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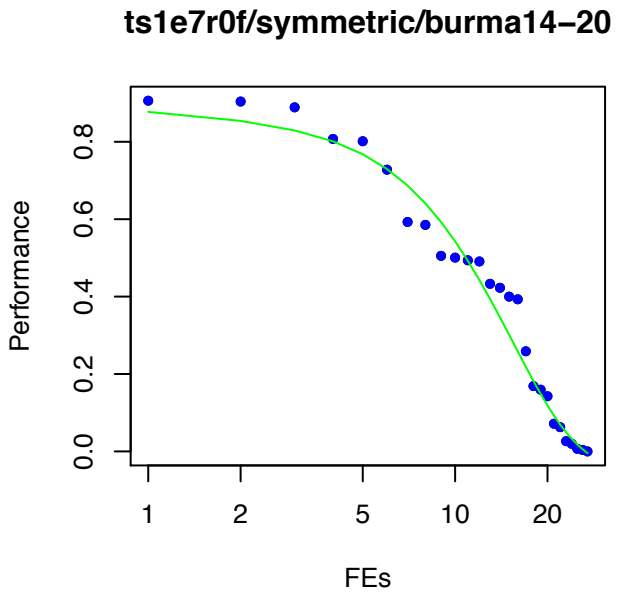
FEs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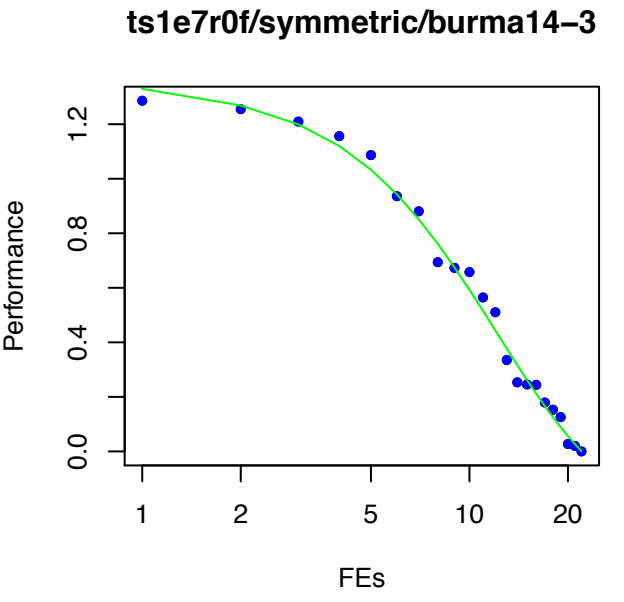
FEs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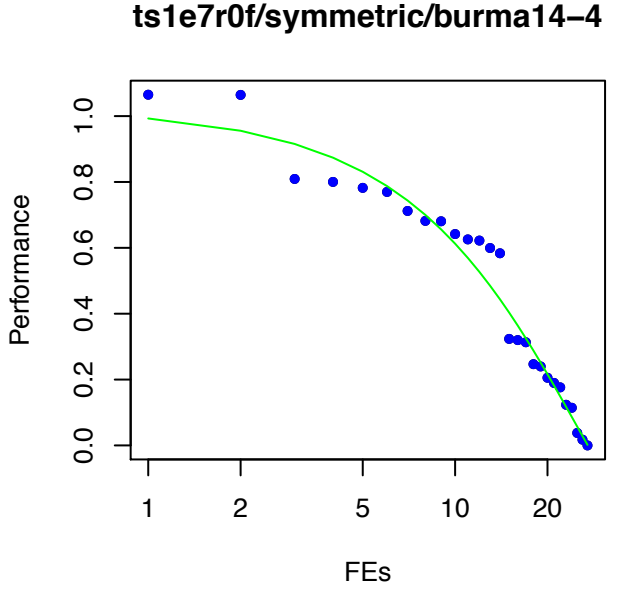
FEs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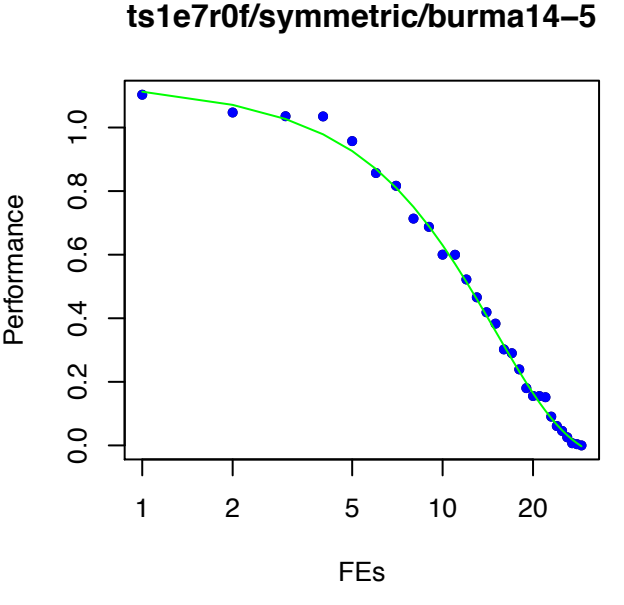
FEs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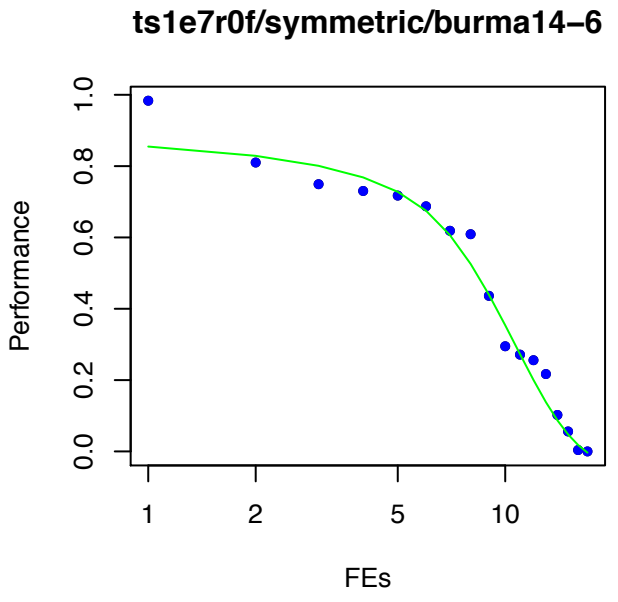
FEs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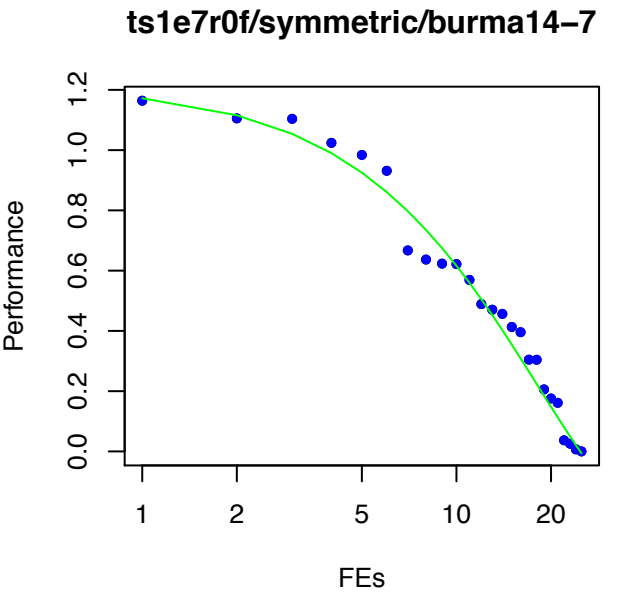
FEs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Performance
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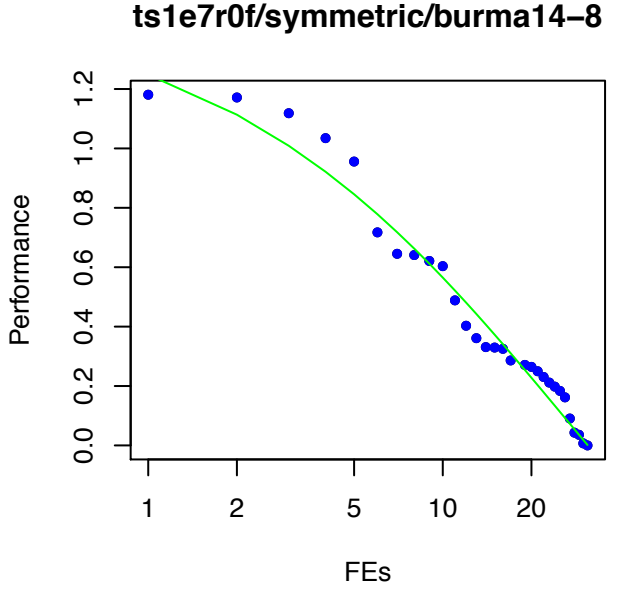
20
FEs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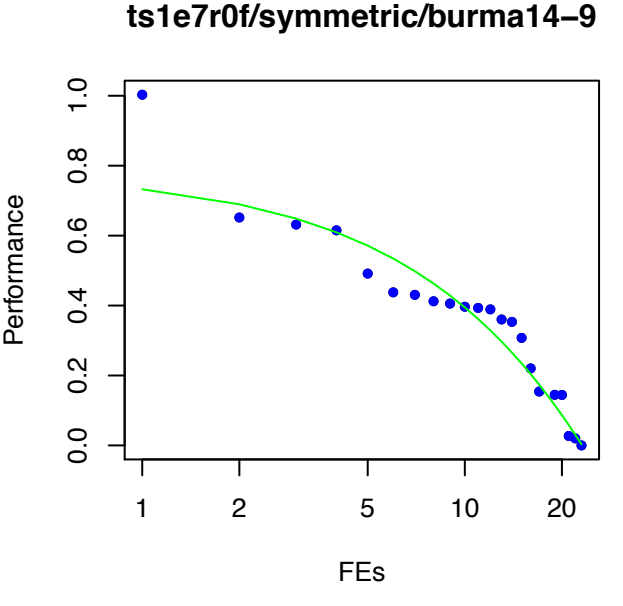
20
FEs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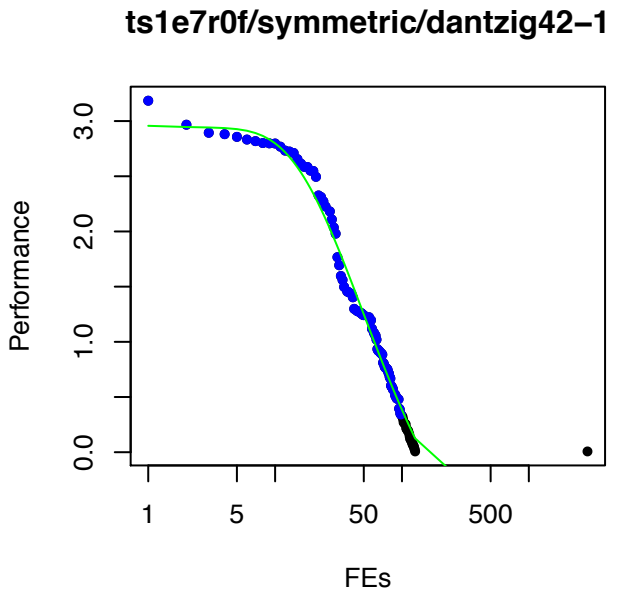
FEs


ts1e7r0f/symmetric/dantzig42−1
Performance
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3.0
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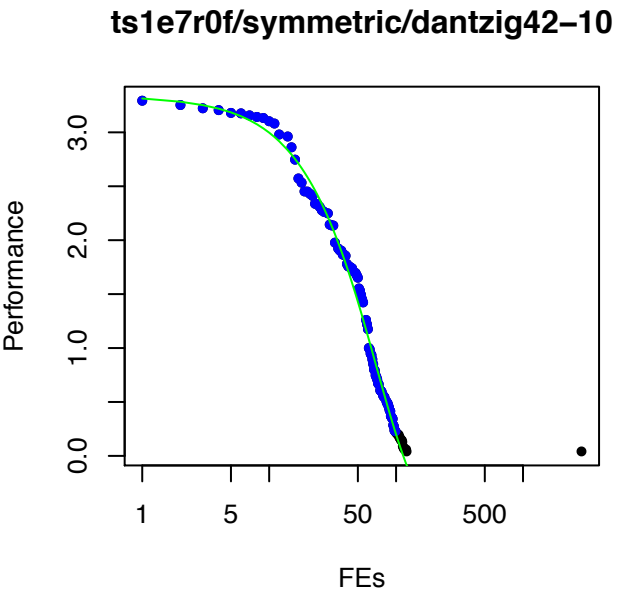
500
FEs


ts1e7r0f/symmetric/dantzig42−10
Performance
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5
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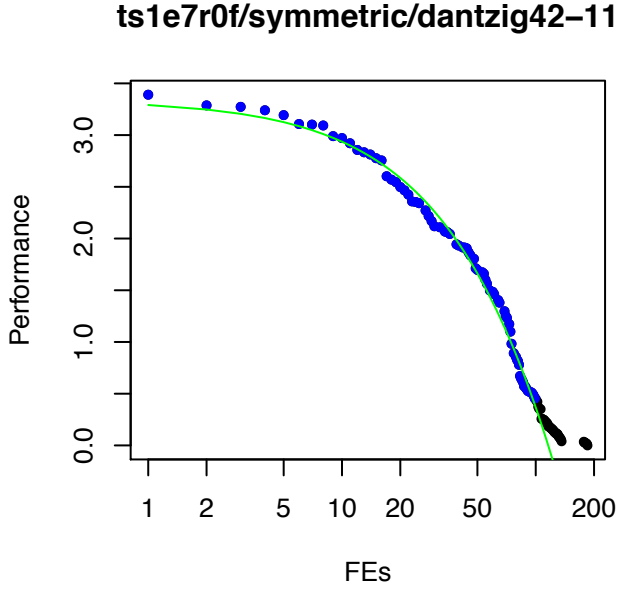
500
FEs


ts1e7r0f/symmetric/dantzig42−11
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3.0
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2
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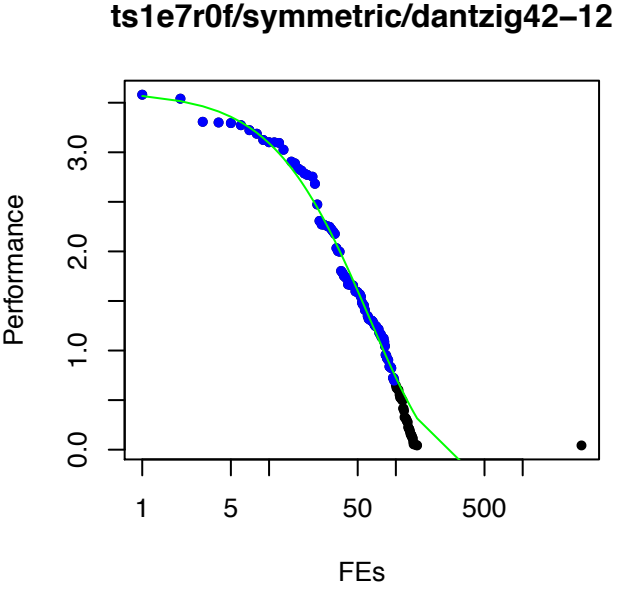
10
20
50
200
FEs


ts1e7r0f/symmetric/dantzig42−12
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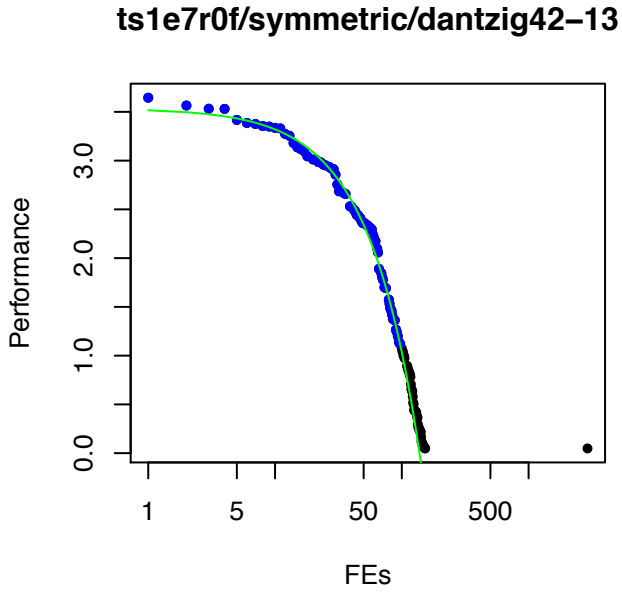
500
FEs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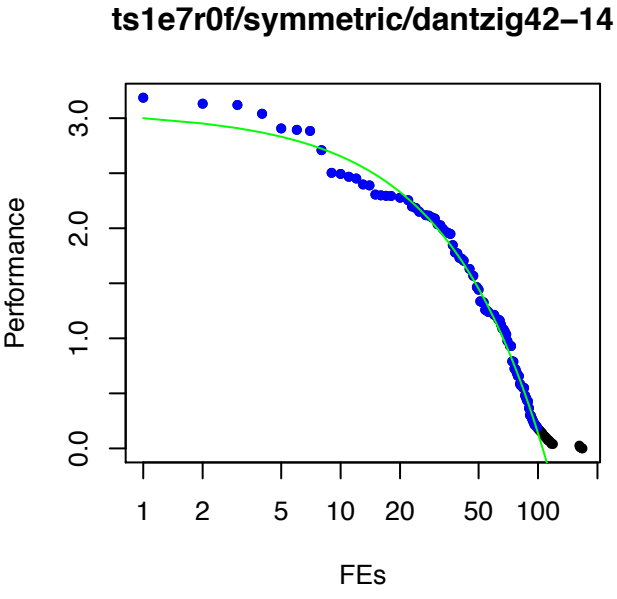
500
FEs


ts1e7r0f/symmetric/dantzig42−14
Performance
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2
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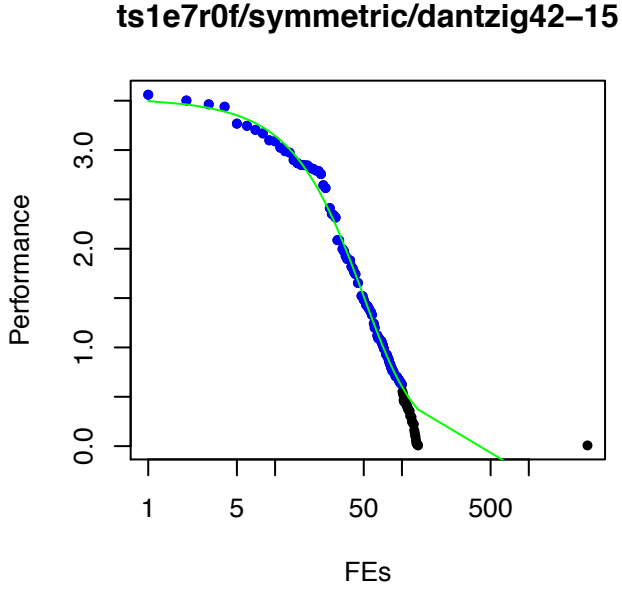
20
50
100
FEs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Performance
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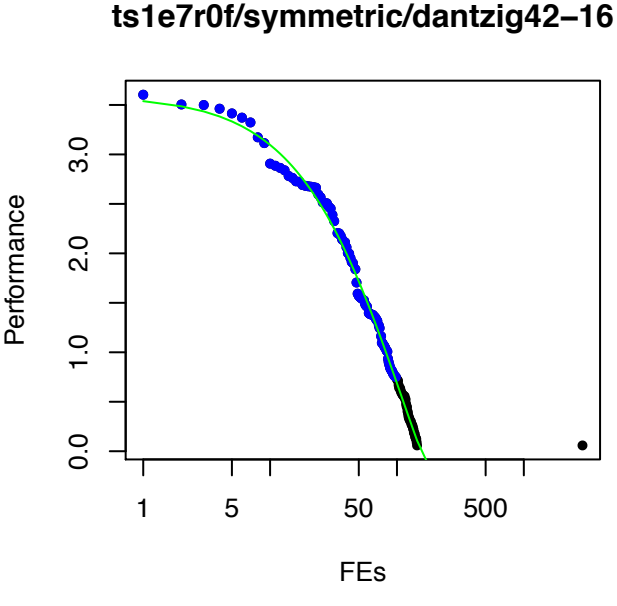
500
FEs


ts1e7r0f/symmetric/dantzig42−16
Performance
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2.0
3.0
1
5
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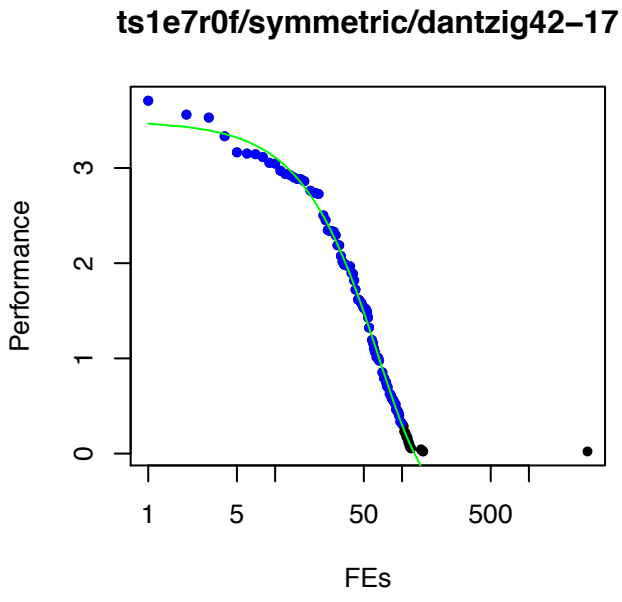
500
FEs


ts1e7r0f/symmetric/dantzig42−17
Performance
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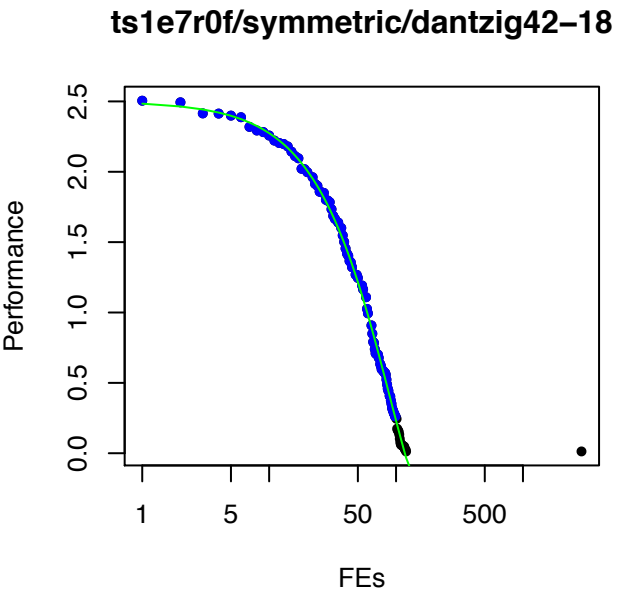
1
2
3
1
5
50
500
FEs


ts1e7r0f/symmetric/dantzig42−18
Performance
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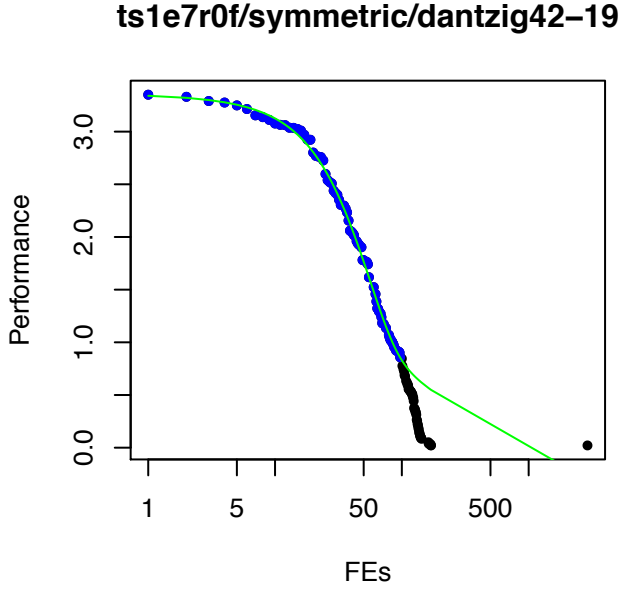
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts1e7r0f/symmetric/dantzig42−19
Performance
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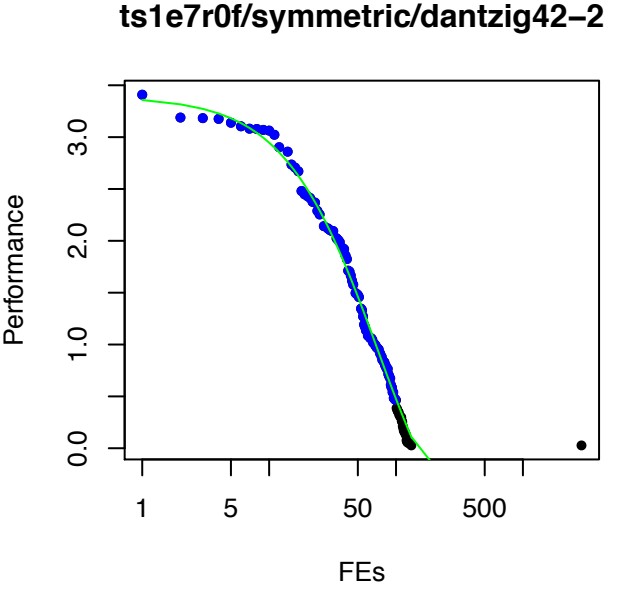
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0f/symmetric/dantzig42−2
Performance
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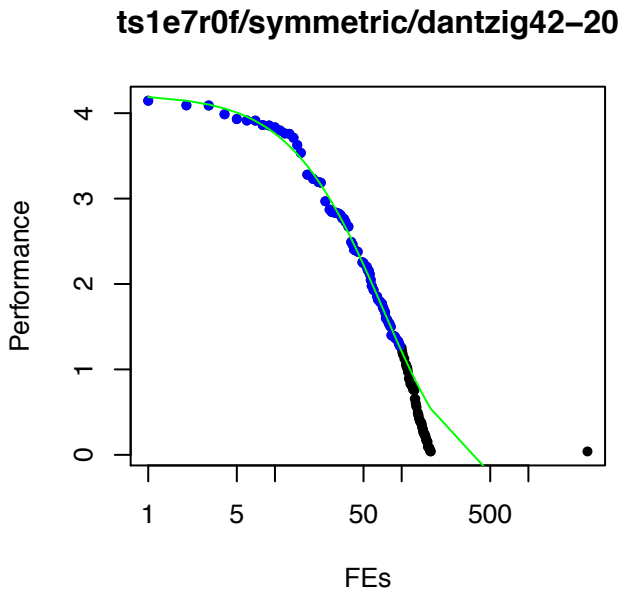
2.0
3.0
1
5
50
500
FEs


ts1e7r0f/symmetric/dantzig42−20
Performance
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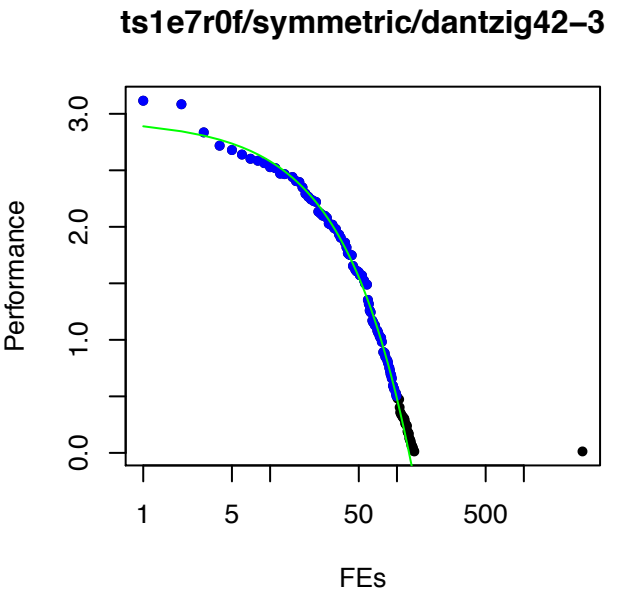
1
2
3
4
1
5
50
500
FEs


ts1e7r0f/symmetric/dantzig42−3
Performance
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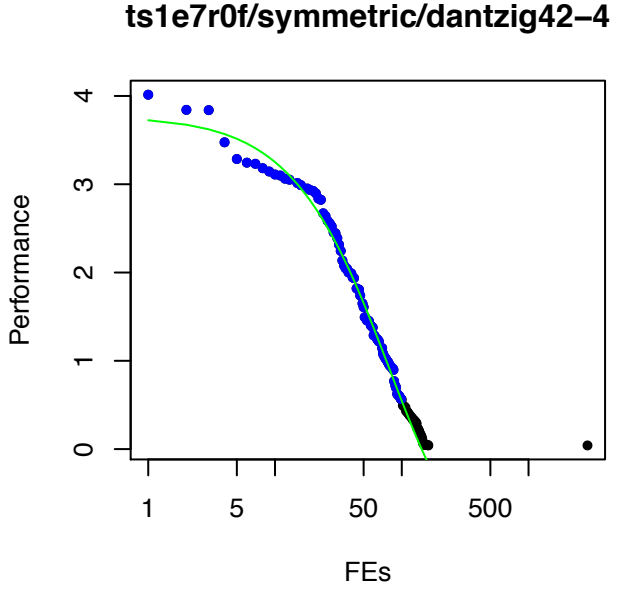
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0f/symmetric/dantzig42−4
Performance
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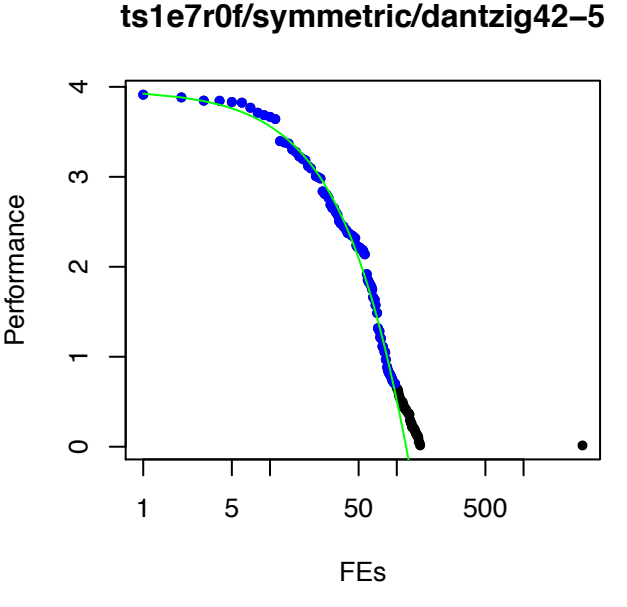
2
3
4
1
5
50
500
FEs


ts1e7r0f/symmetric/dantzig42−5
Performance
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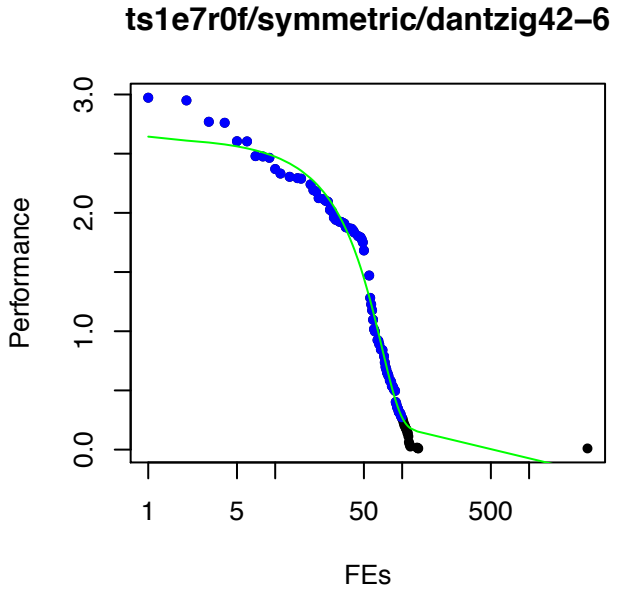
2
3
4
1
5
50
500
FEs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Performance
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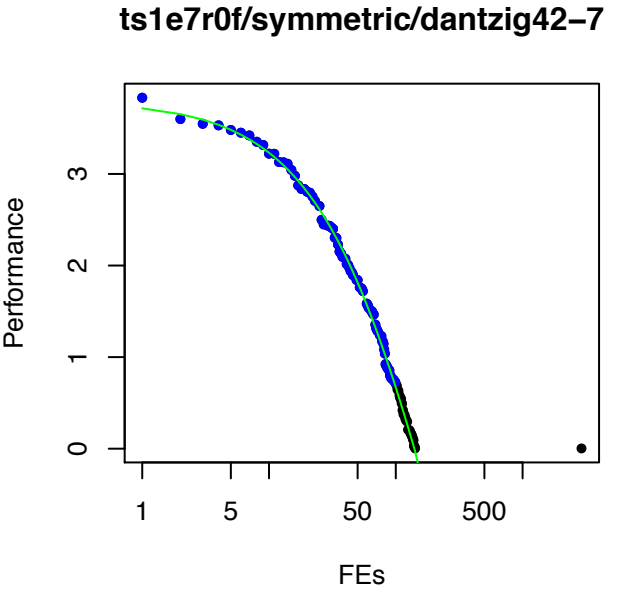
2.0
3.0
1
5
50
500
FEs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Performance
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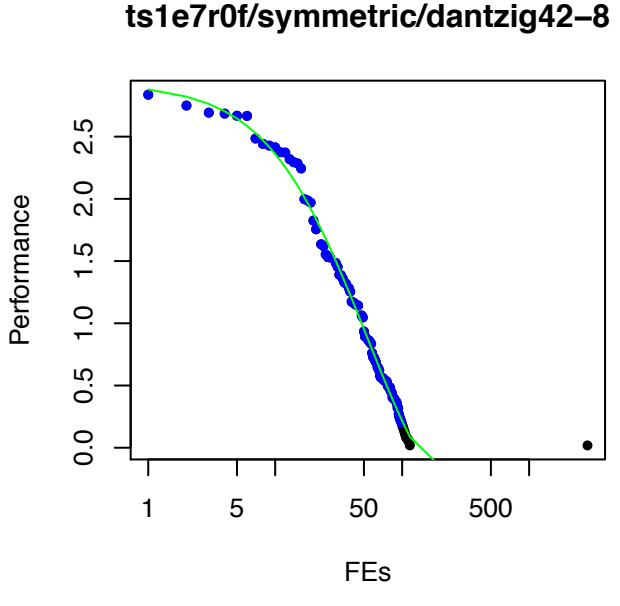
1
2
3
1
5
50
500
FEs


ts1e7r0f/symmetric/dantzig42−8
Performance
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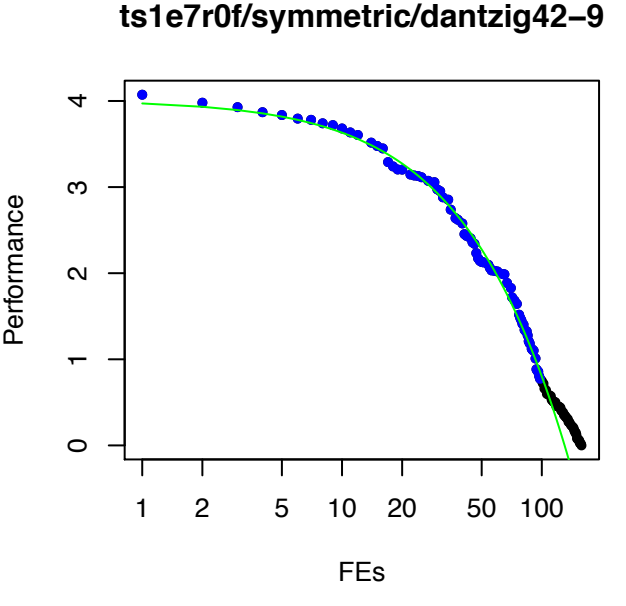
2.5
1
5
50
500
FEs


ts1e7r0f/symmetric/dantzig42−9
Performance
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1
2
3
4
1
2
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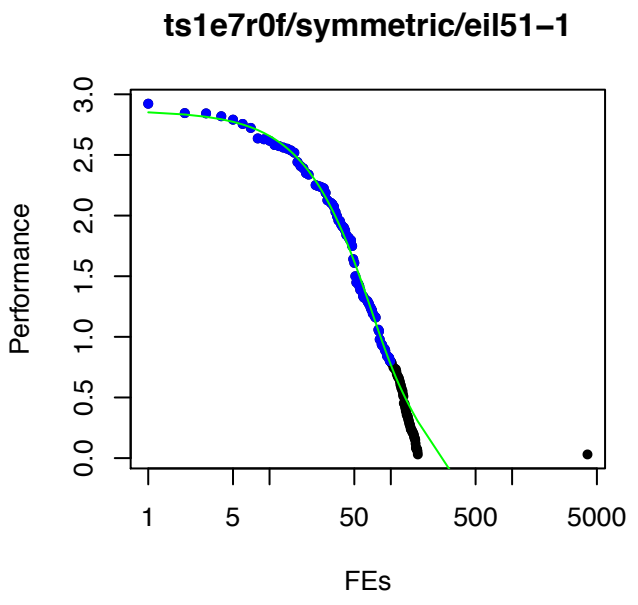
10
20
50
100
FEs


ts1e7r0f/symmetric/eil51−1
Performance
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2.5
3.0
1
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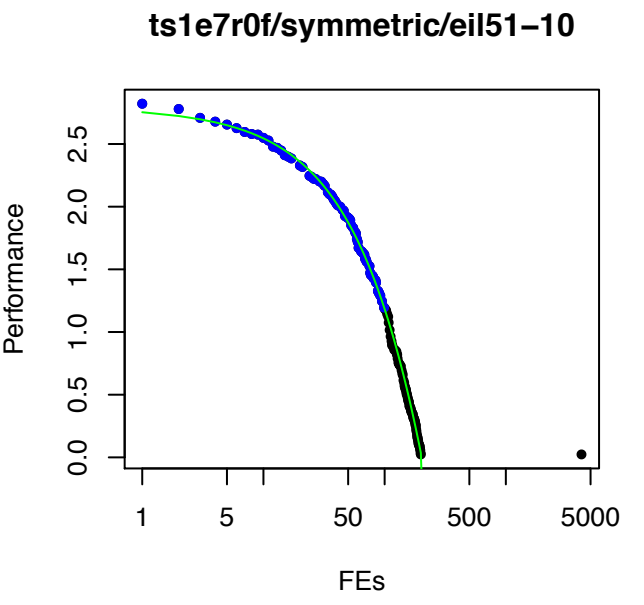
50
500
5000
FEs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Performance
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2.5
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5
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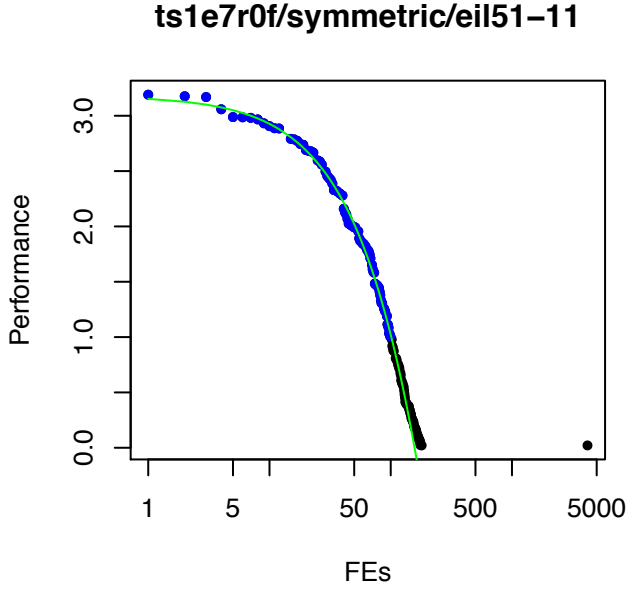
500
5000
FEs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Performance
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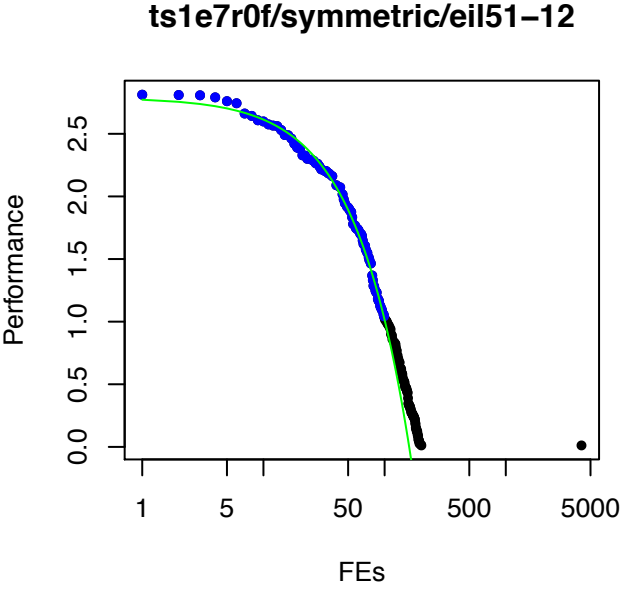
50
500
5000
FEs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Performance
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1
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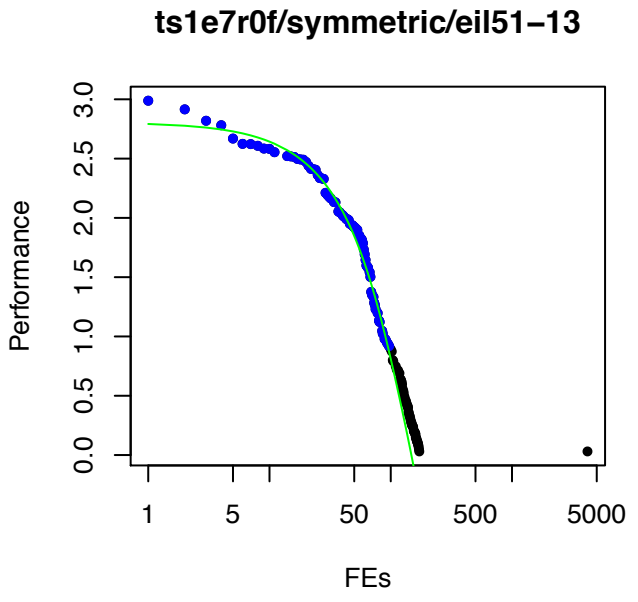
5000
FEs


ts1e7r0f/symmetric/eil51−13
Performance
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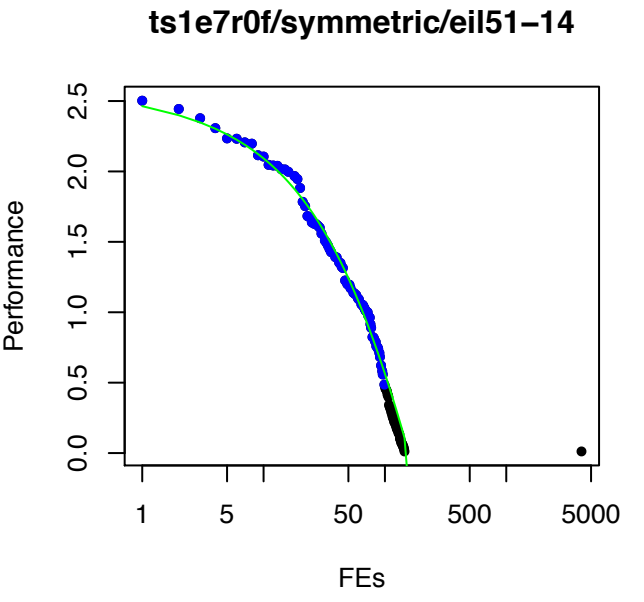
5000
FEs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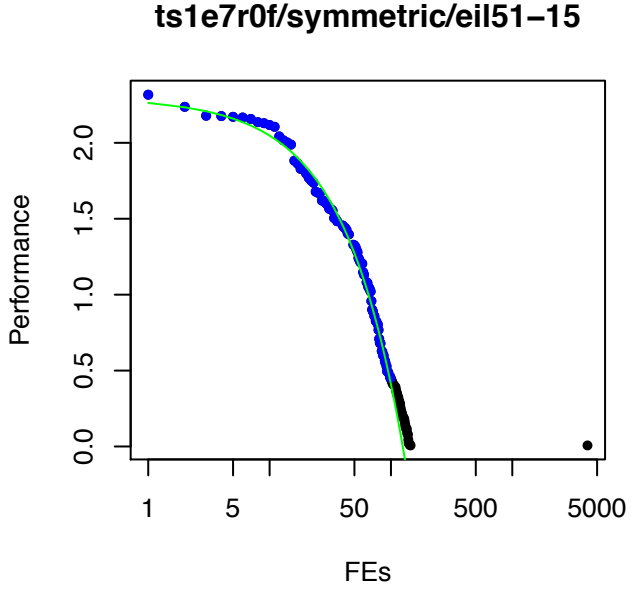
FEs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Performance
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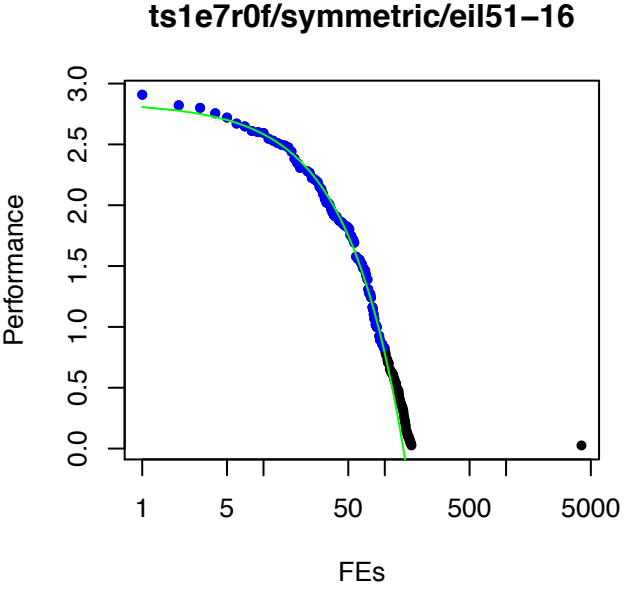
5000
FEs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Performance
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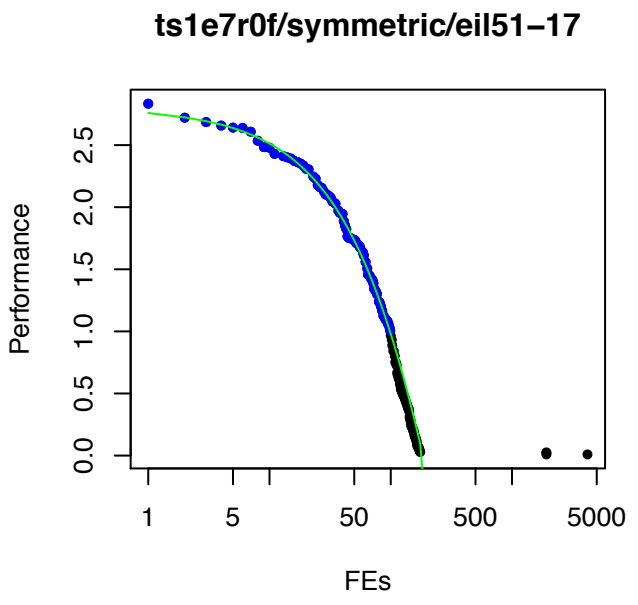
FEs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Performance
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2.5
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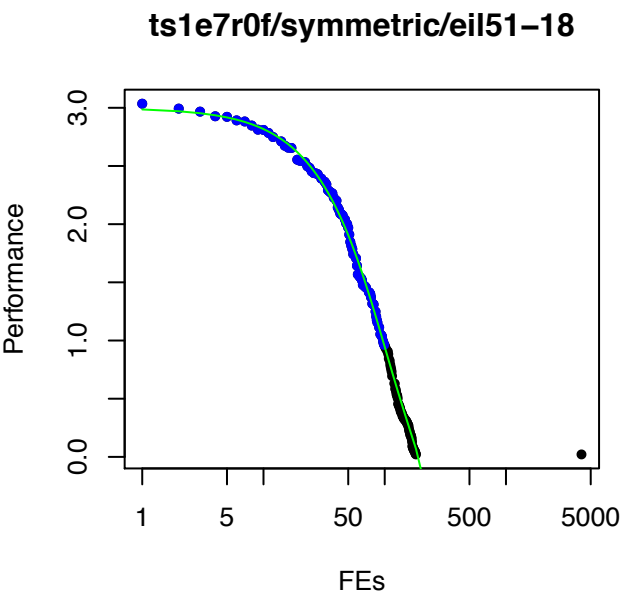
5000
FEs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Performance
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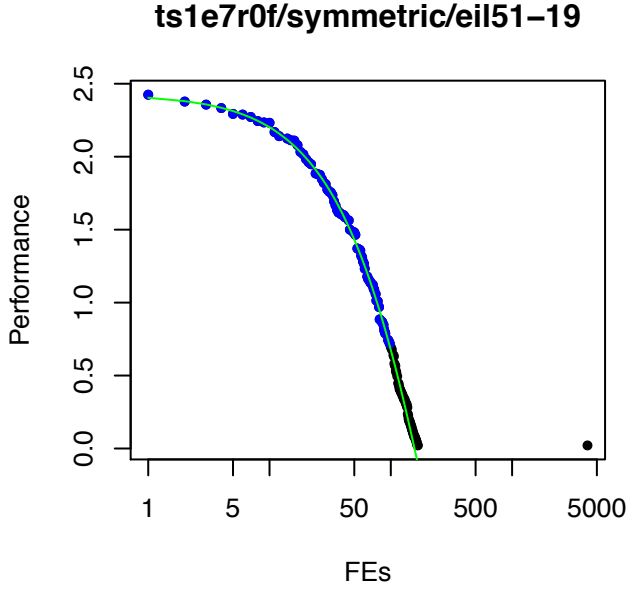
5000
FEs


ts1e7r0f/symmetric/eil51−19
Performance
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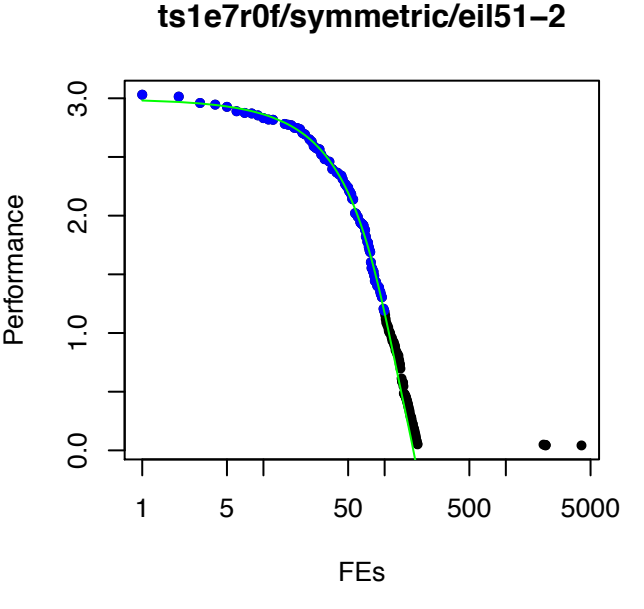
5
50
500
5000
FEs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Performance
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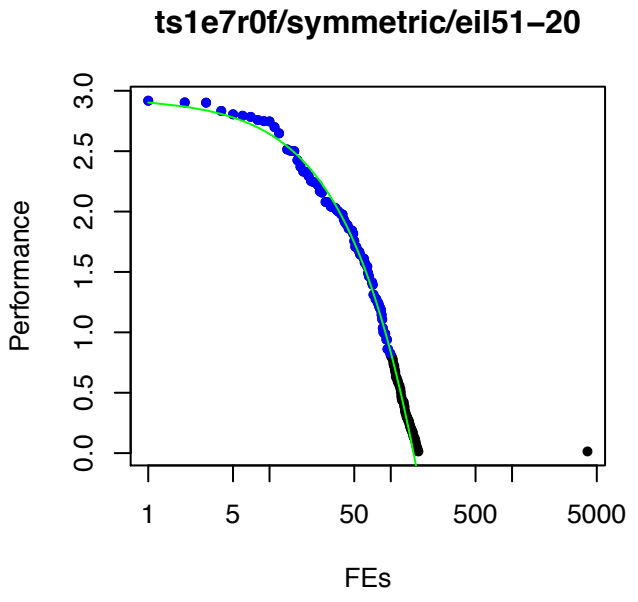
5000
FEs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3.0
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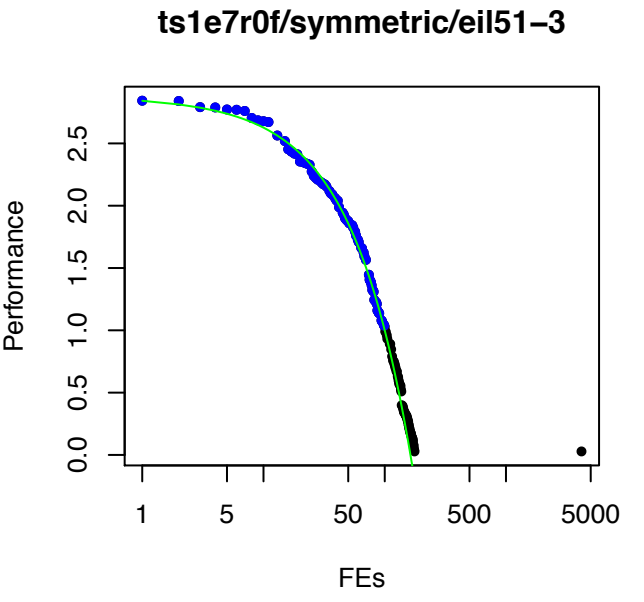
50
500
5000
FEs


ts1e7r0f/symmetric/eil51−3
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2.5
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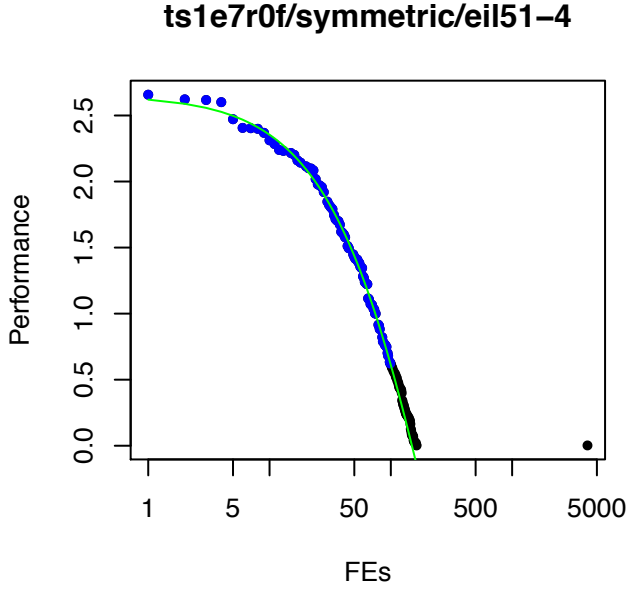
5
50
500
5000
FEs


ts1e7r0f/symmetric/eil51−4
Performance
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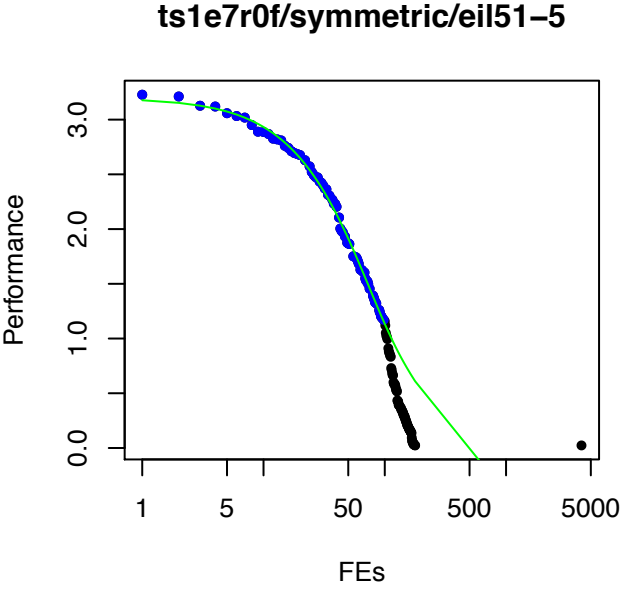
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/eil51−5
Performance
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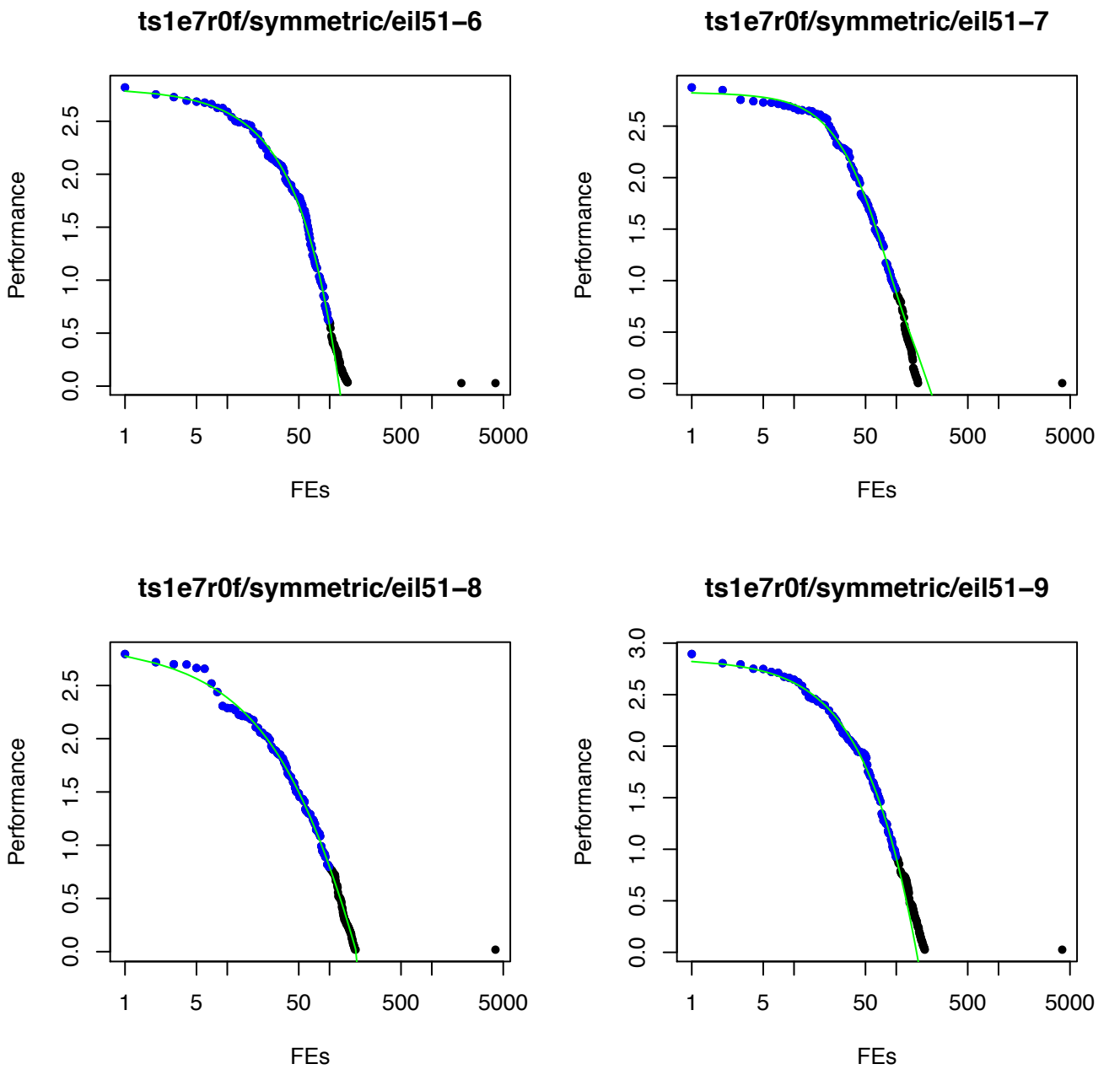
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/eil51−6
ts1e7r0f/symmetric/eil51−7
ts1e7r0f/symmetric/eil51−8
ts1e7r0f/symmetric/eil51−9
Performance
FEs
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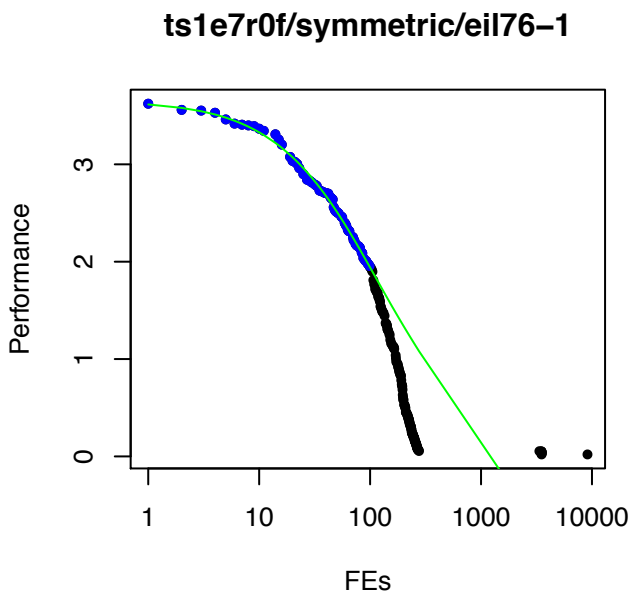
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000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Performance
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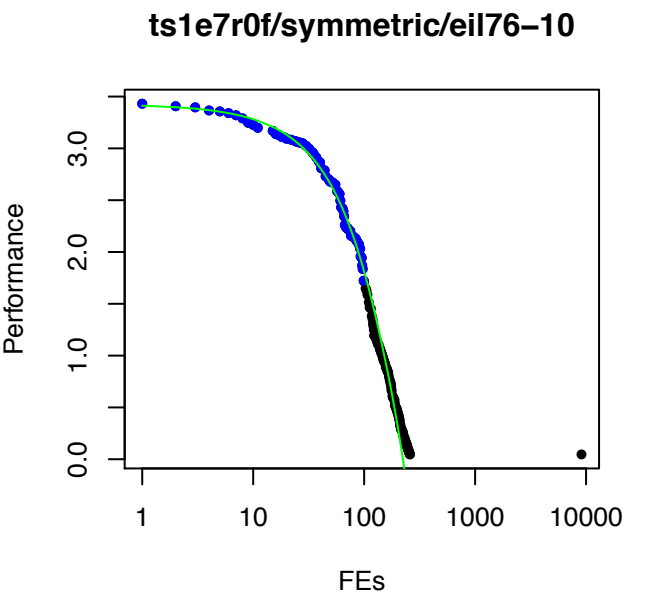
2
3
1
10
100
1000
10000
FEs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Performance
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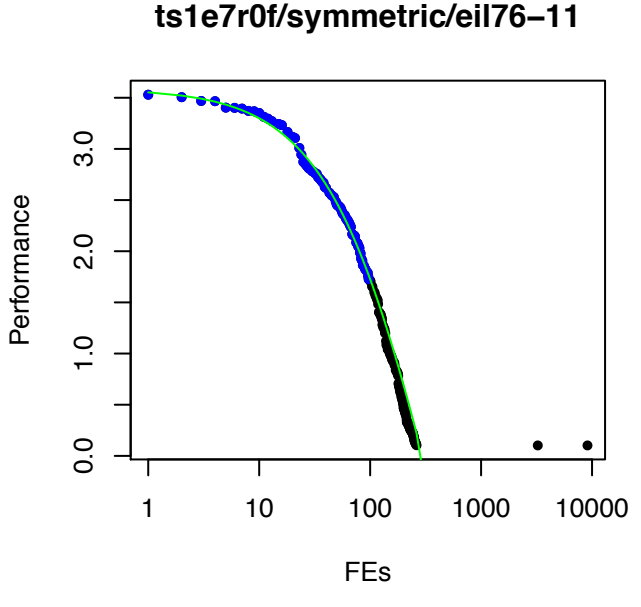
2.0
3.0
1
10
100
1000
10000
FEs


ts1e7r0f/symmetric/eil76−11
Performance
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1.0
2.0
3.0
1
10
100
1000
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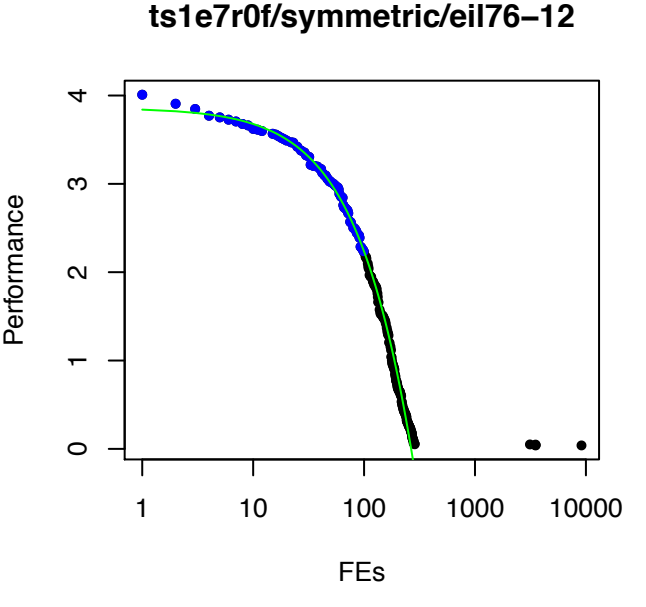
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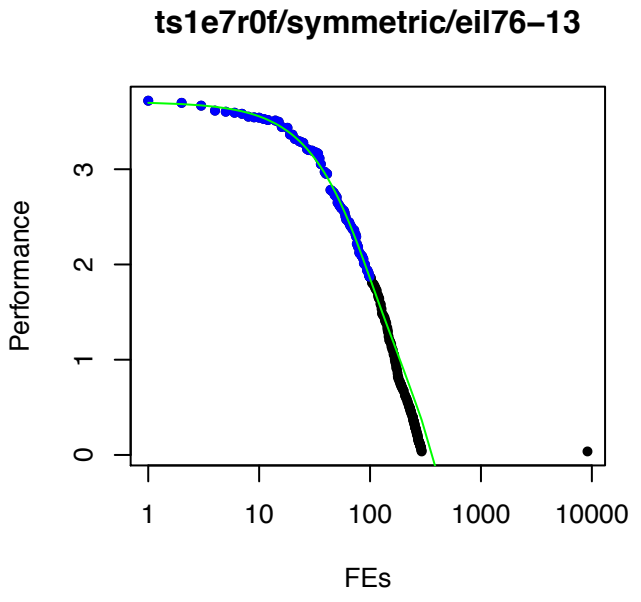
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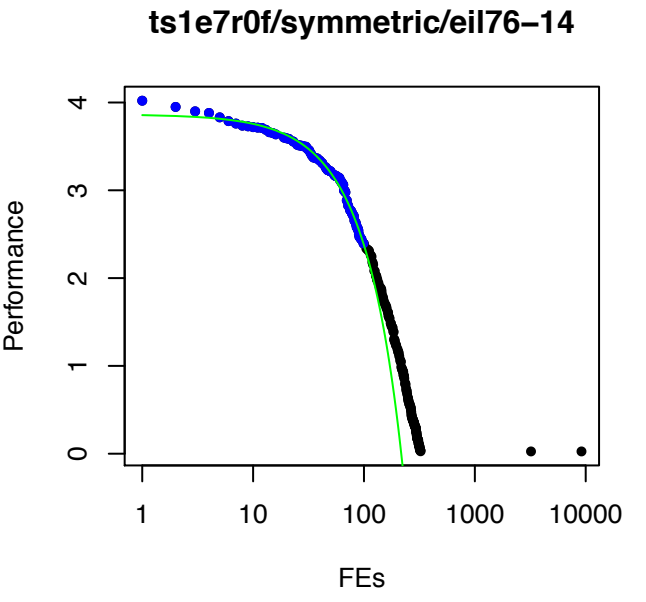
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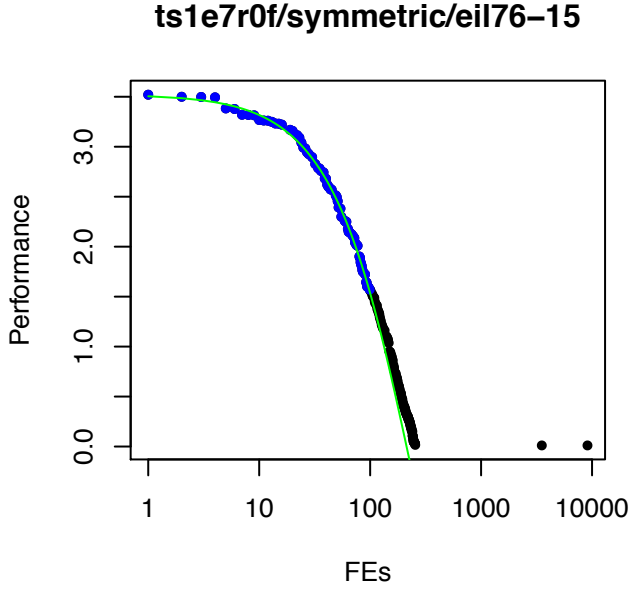
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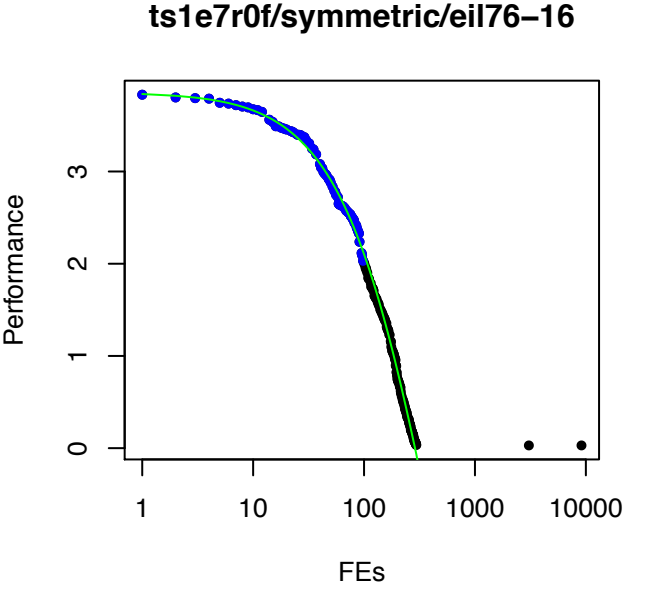
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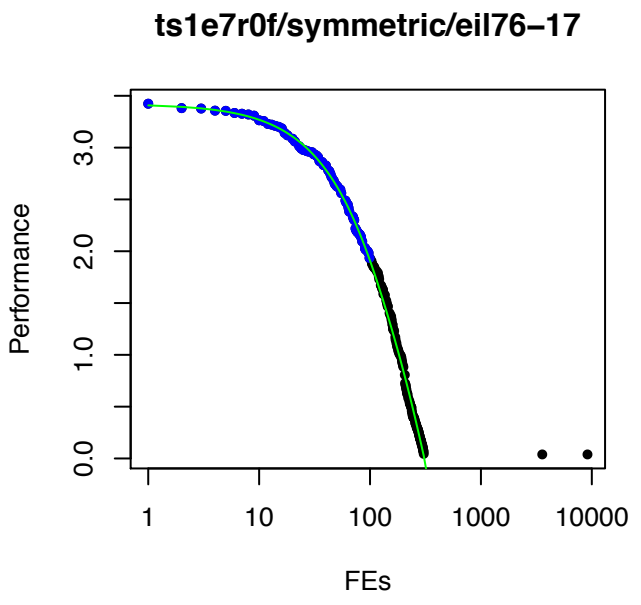
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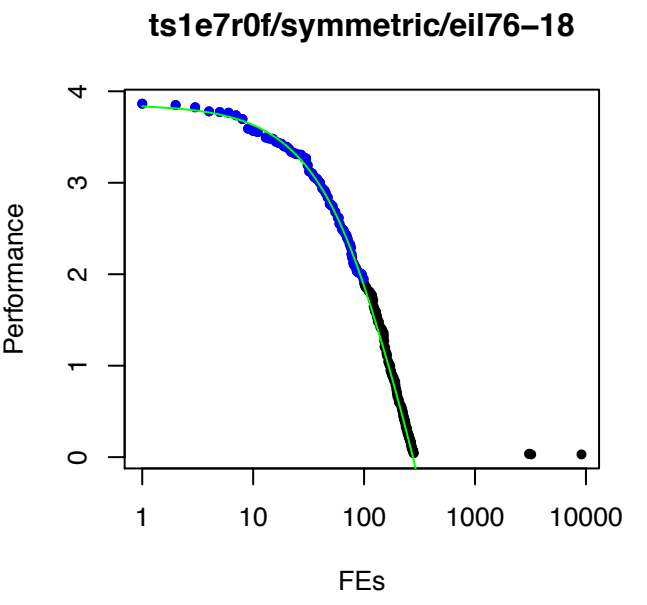
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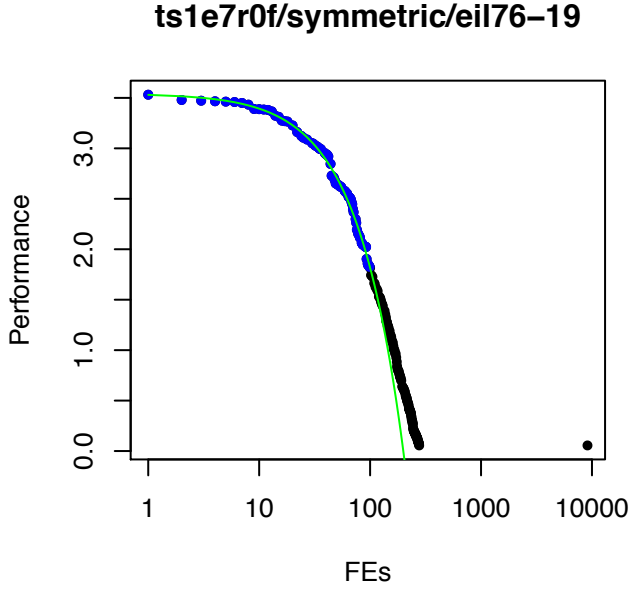
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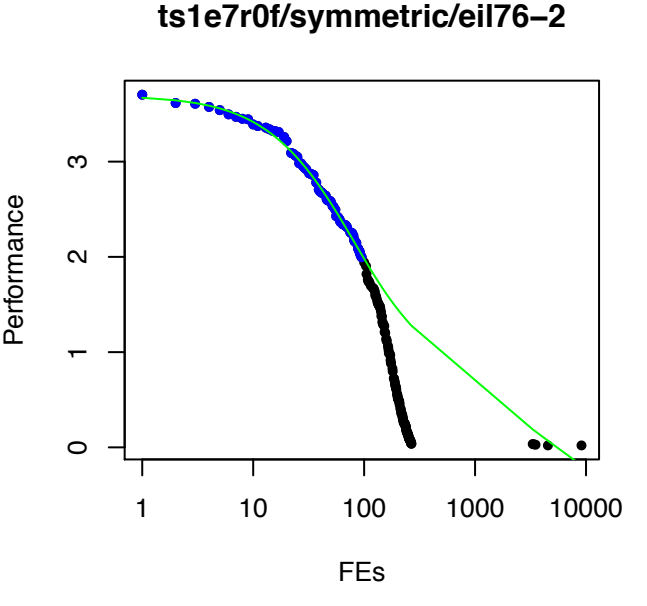
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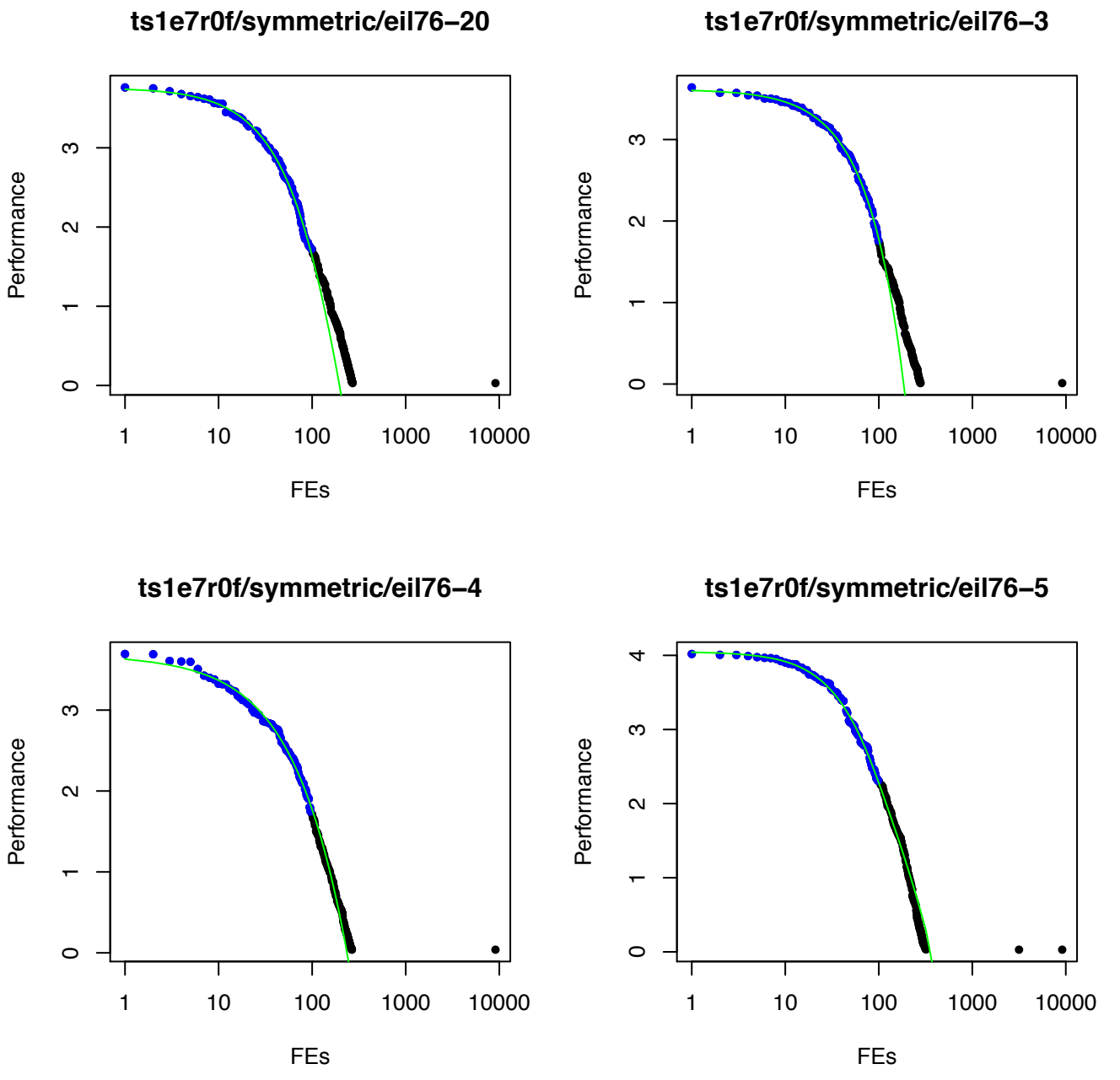
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Performance
FEs
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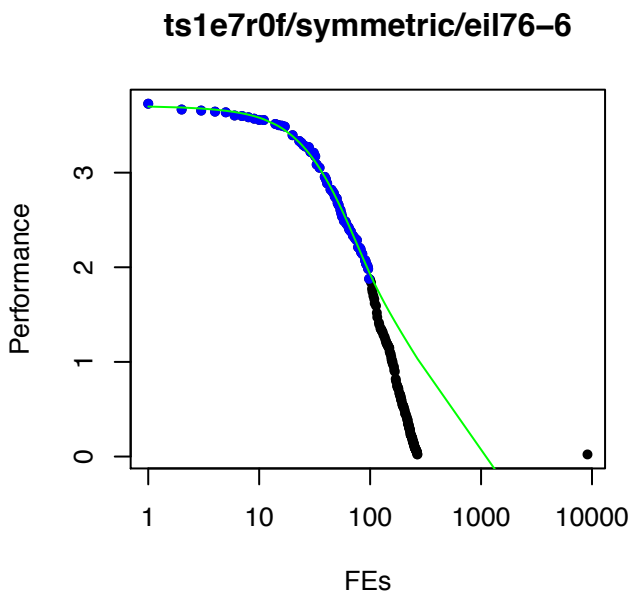
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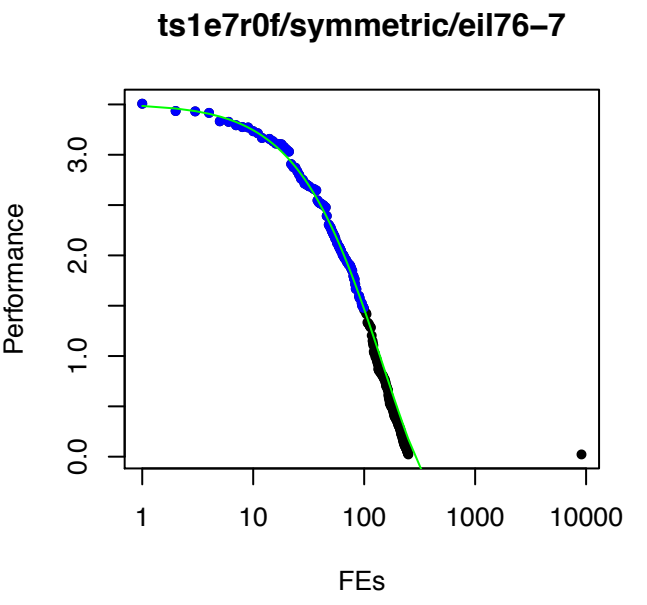
FEs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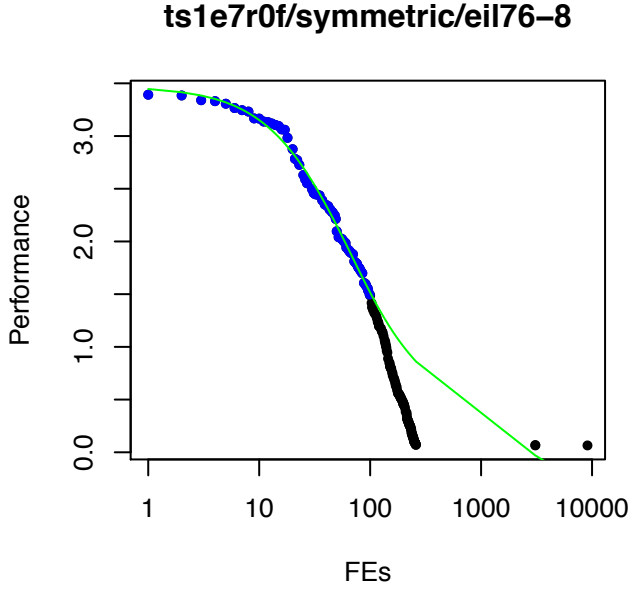
FEs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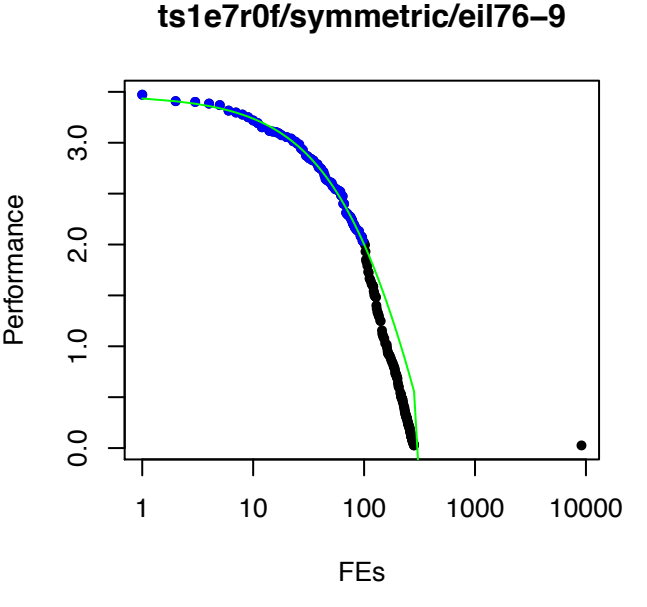
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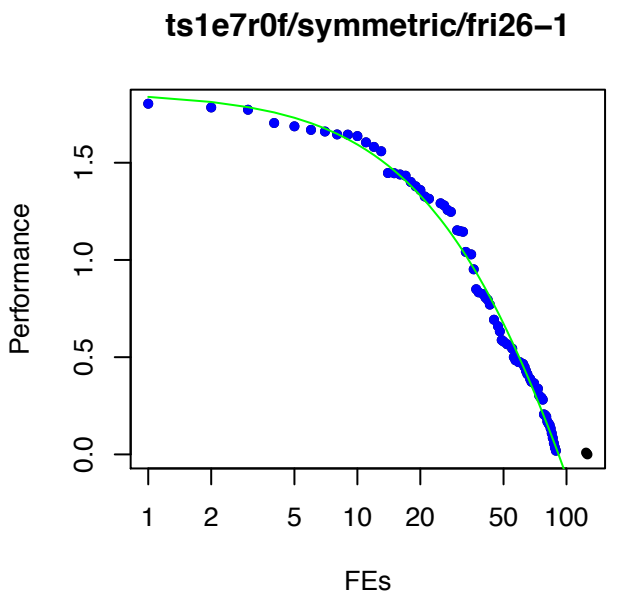
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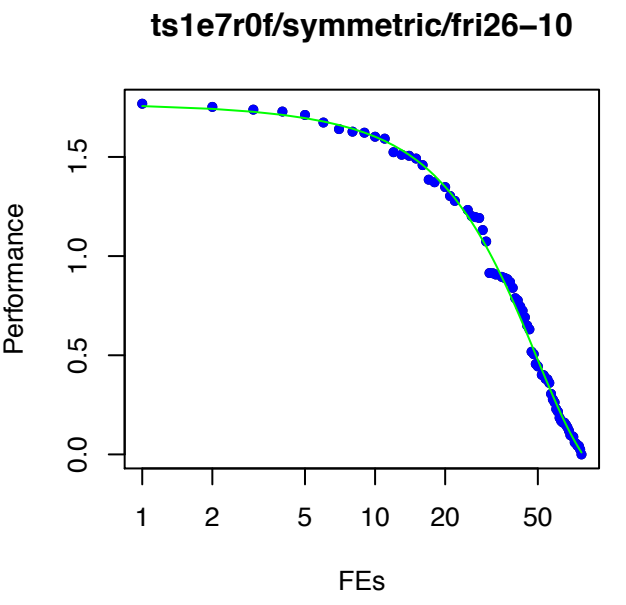
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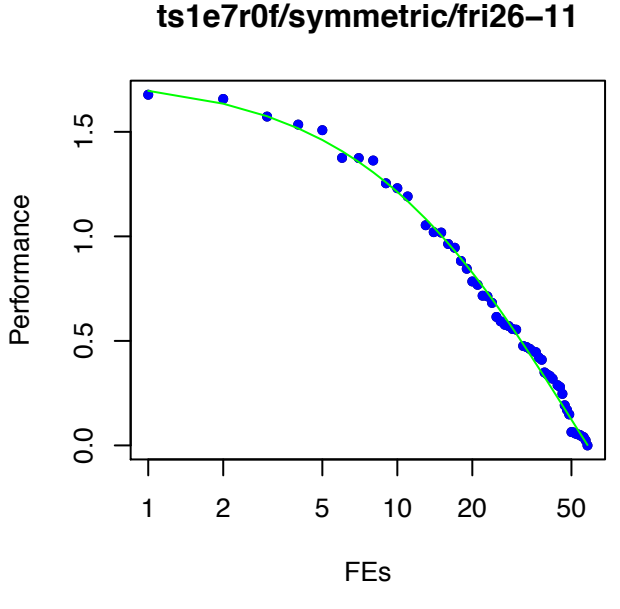
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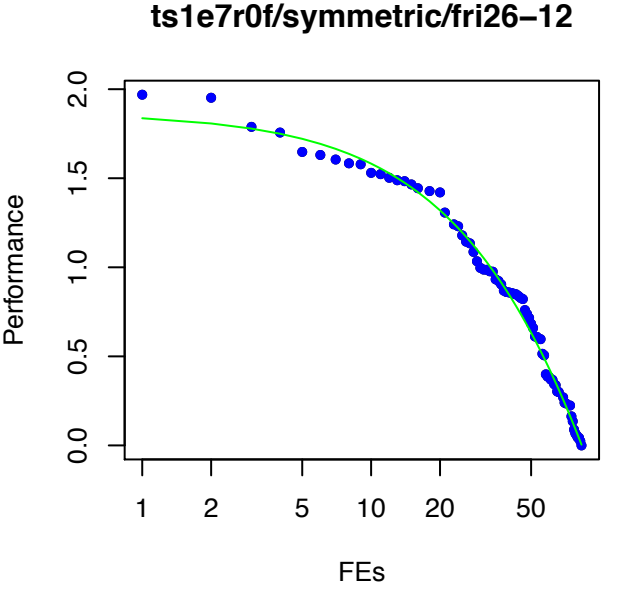
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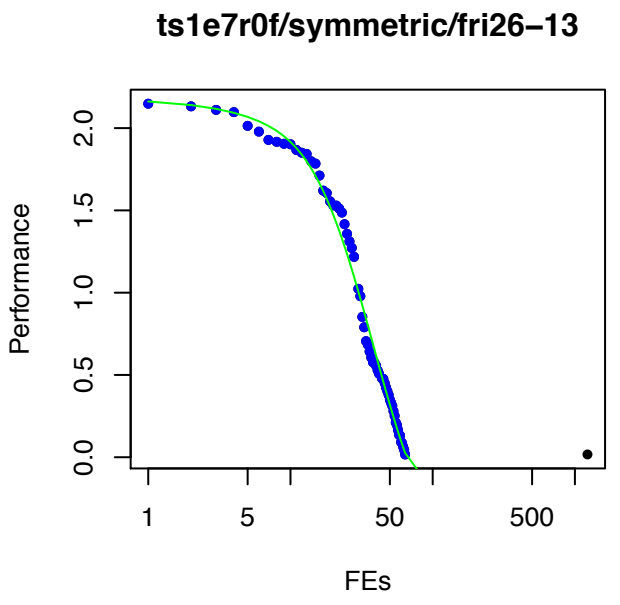
FEs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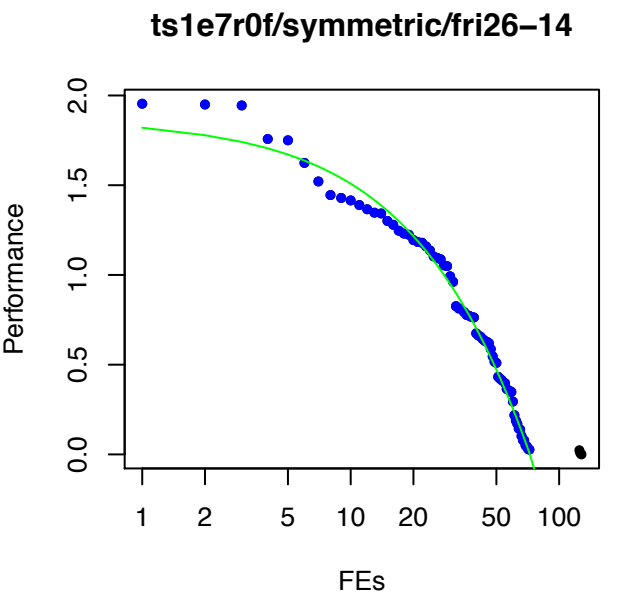
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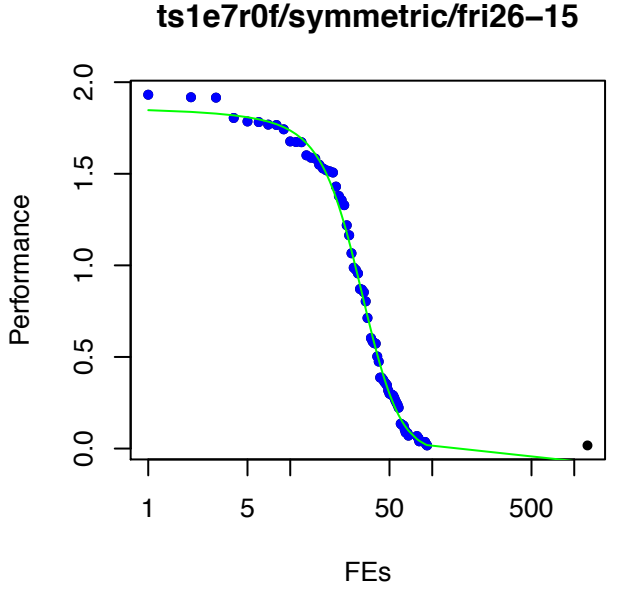
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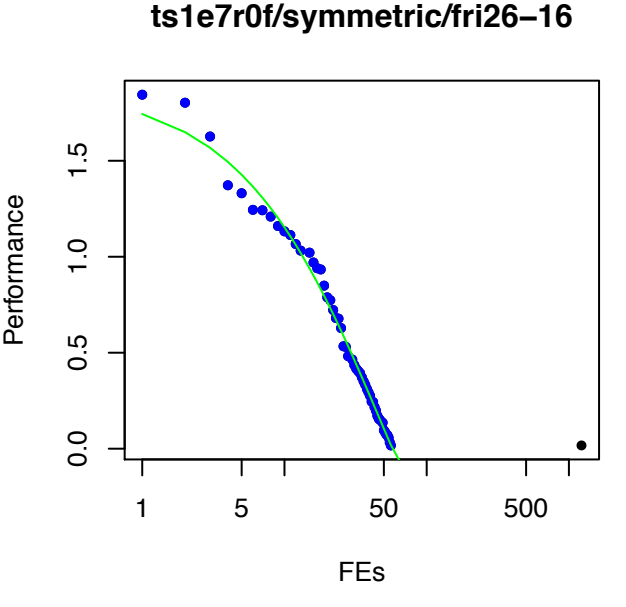
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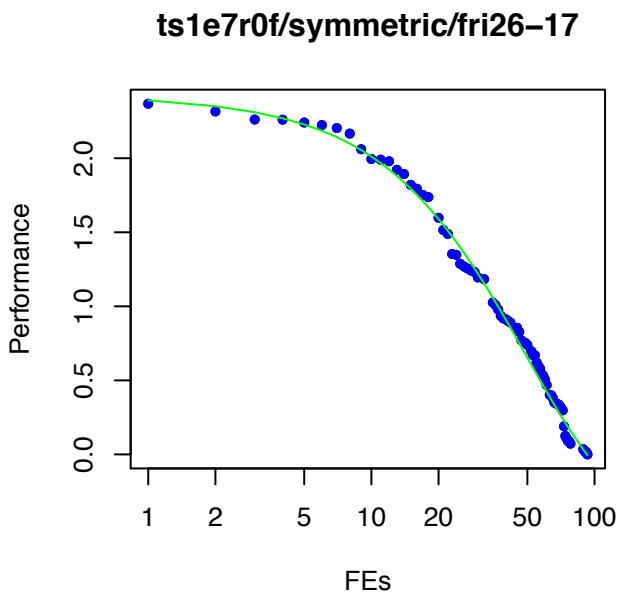
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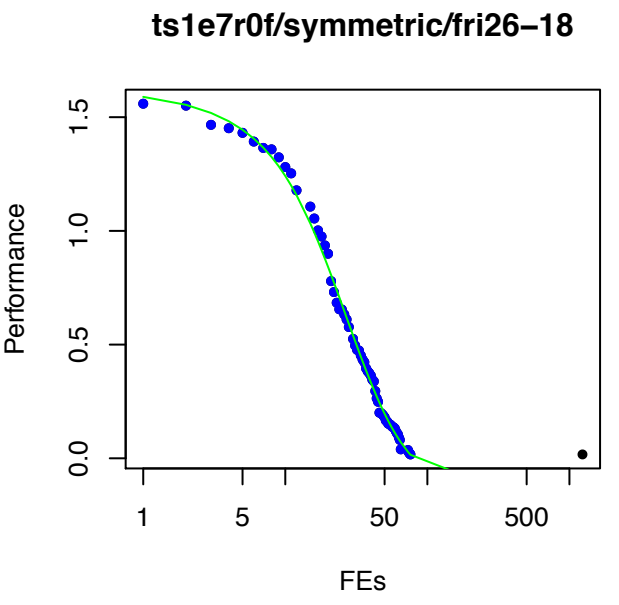
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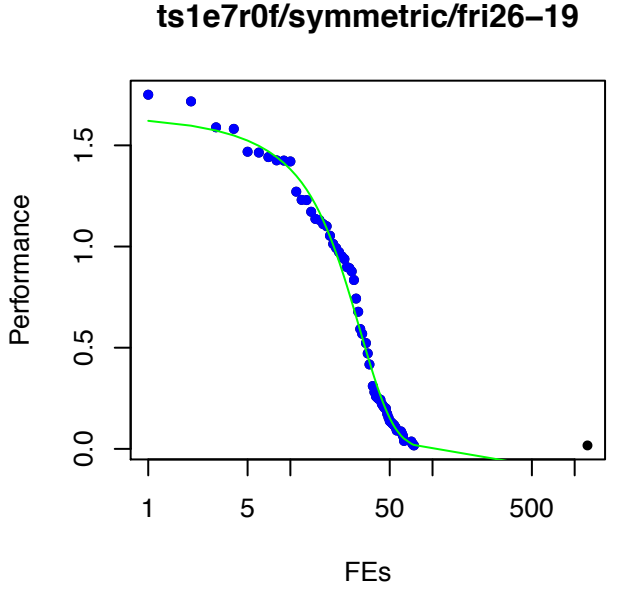
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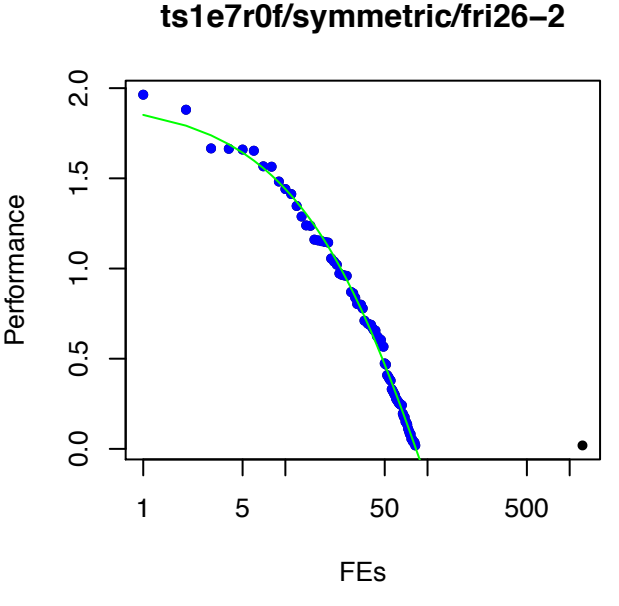
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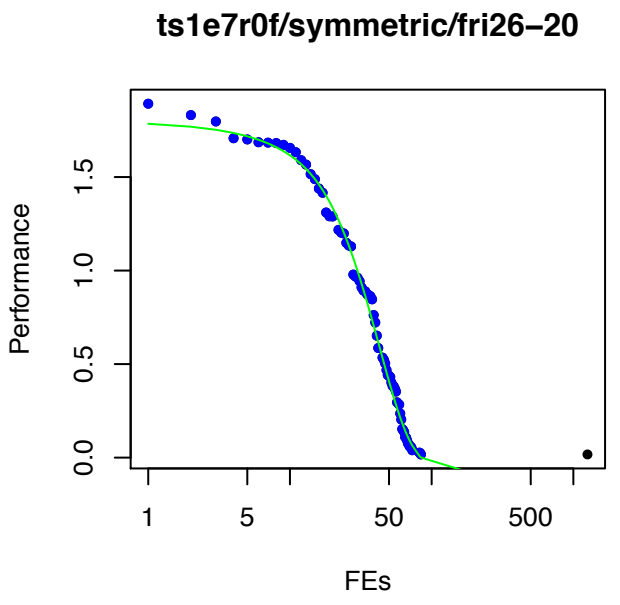
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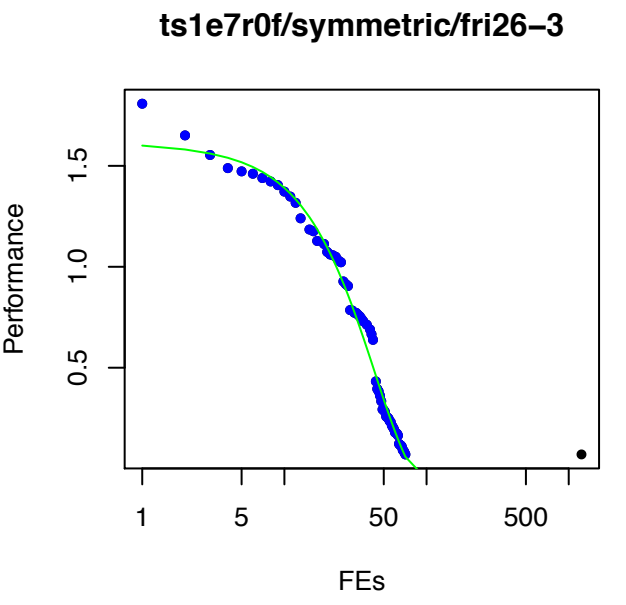
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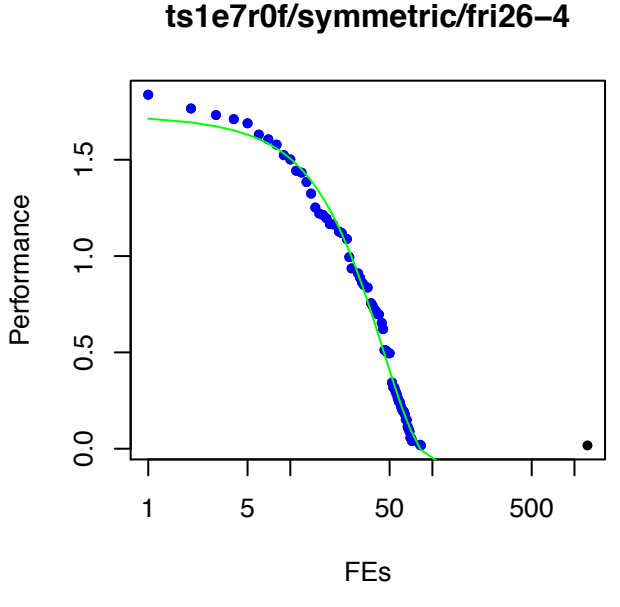
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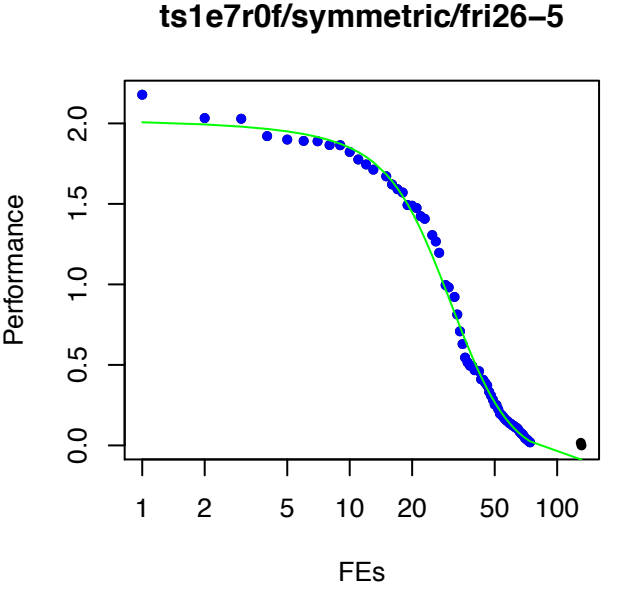
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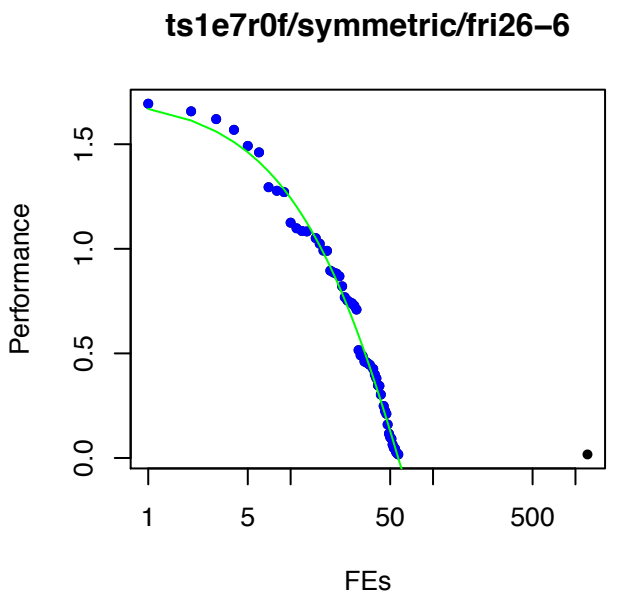
FEs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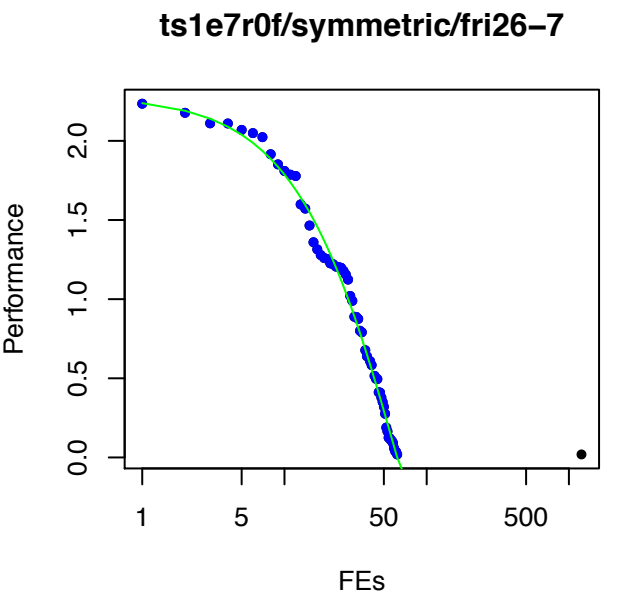
FEs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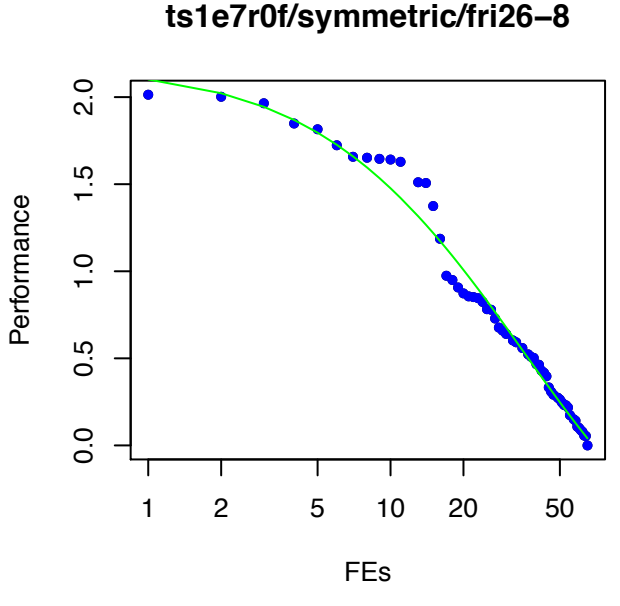
FEs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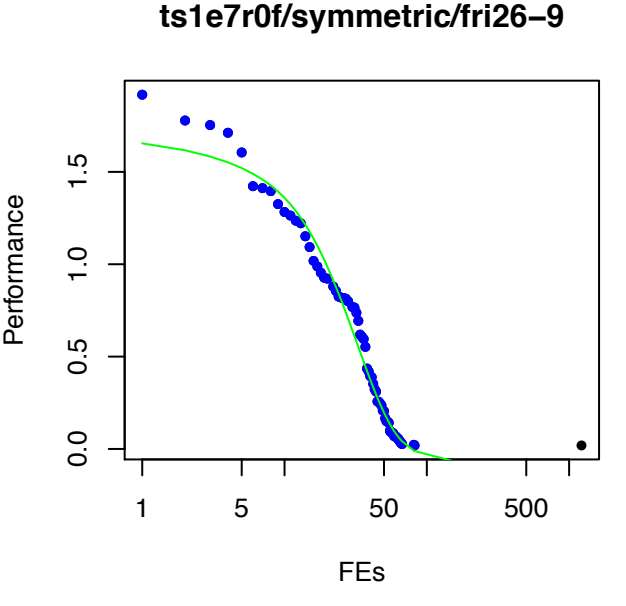
FEs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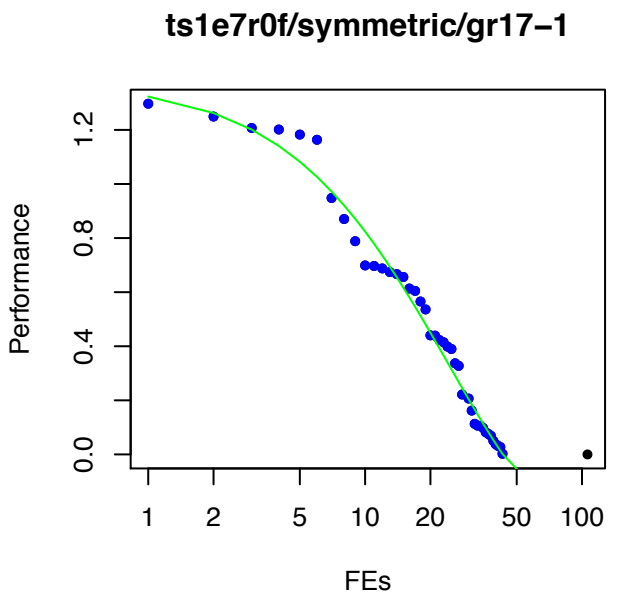
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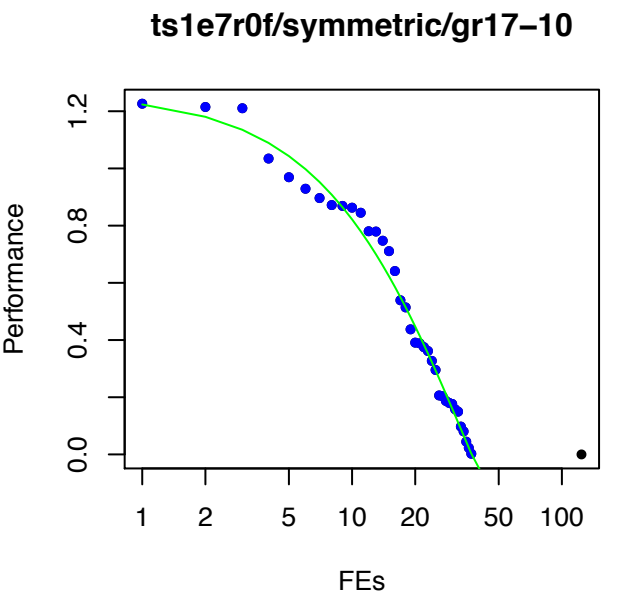
FEs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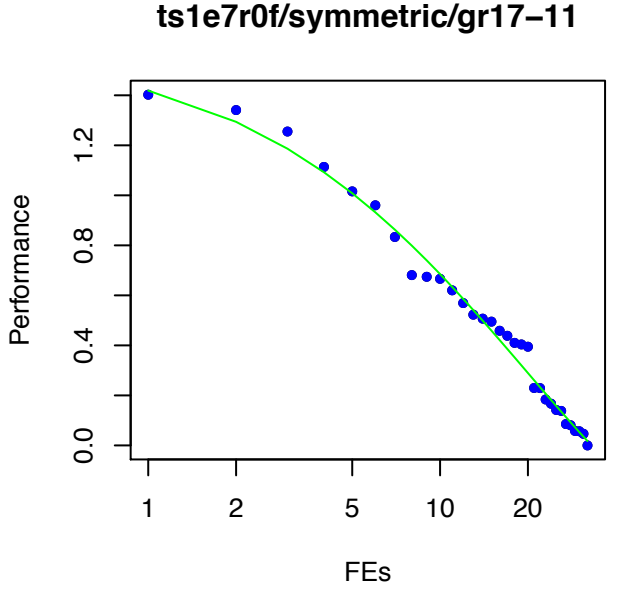
FEs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Performance
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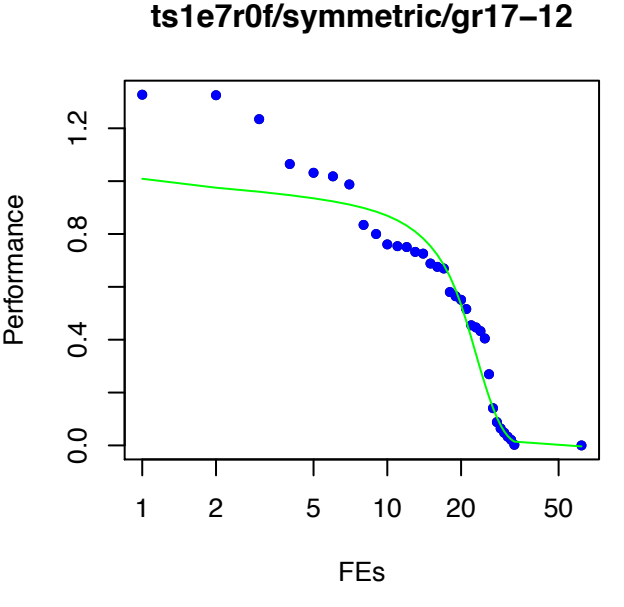
FEs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Performance
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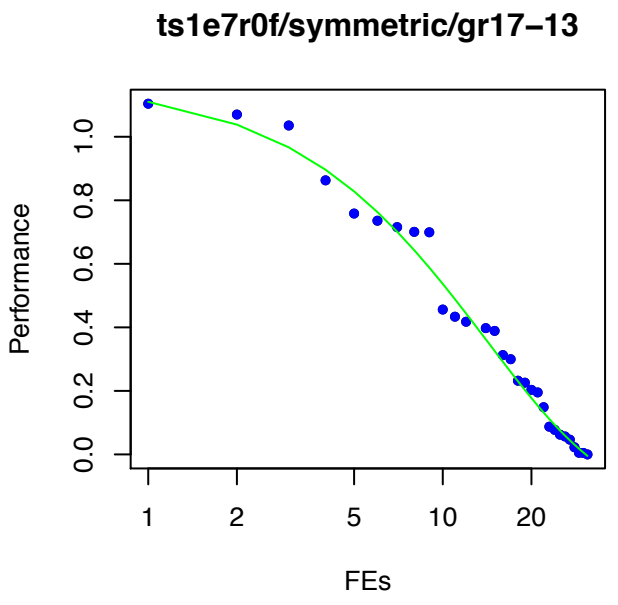
FEs


ts1e7r0f/symmetric/gr17−13
Performance
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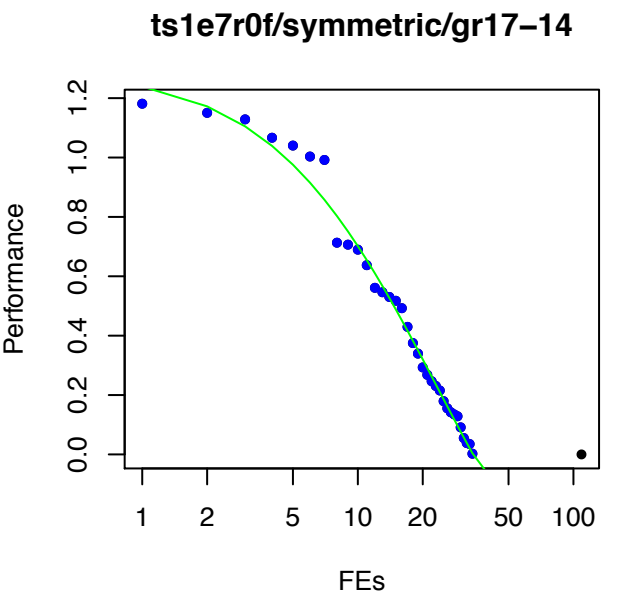
FEs


ts1e7r0f/symmetric/gr17−14
Performance
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5
10
20
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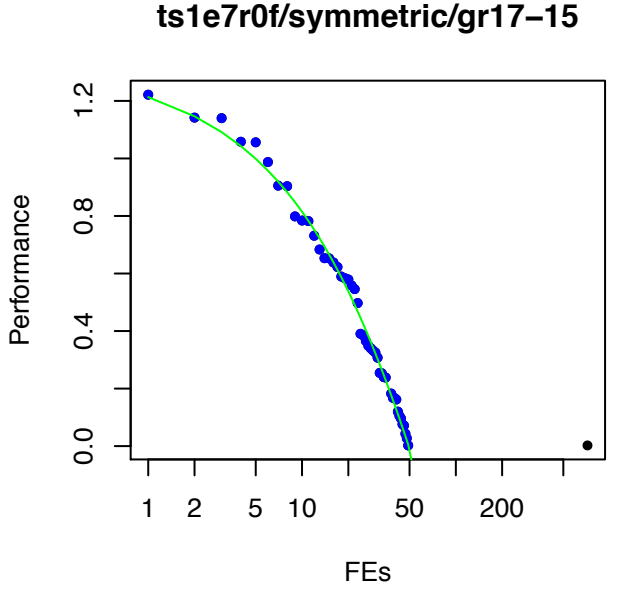
100
FEs


ts1e7r0f/symmetric/gr17−15
Performance
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0.8
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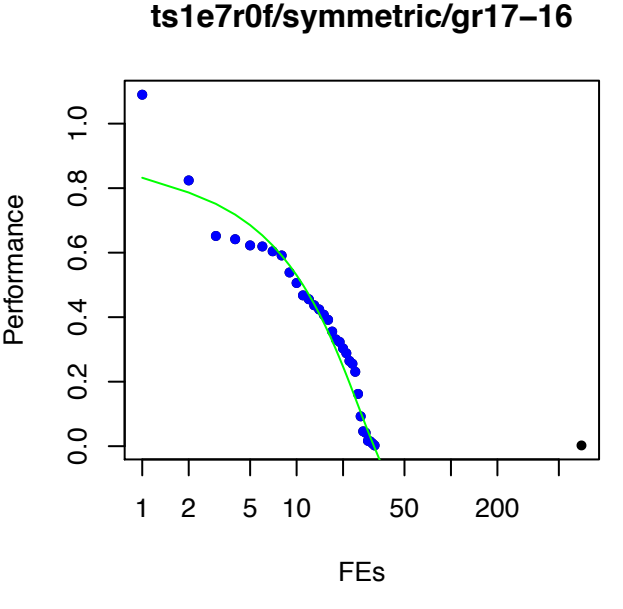
ts1e7r0f/symmetric/gr17−16
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2
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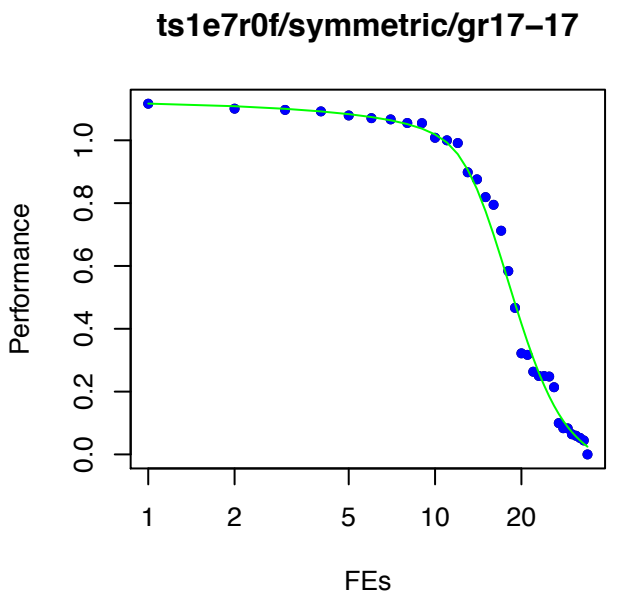
200
FEs


ts1e7r0f/symmetric/gr17−17
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1.0
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2
5
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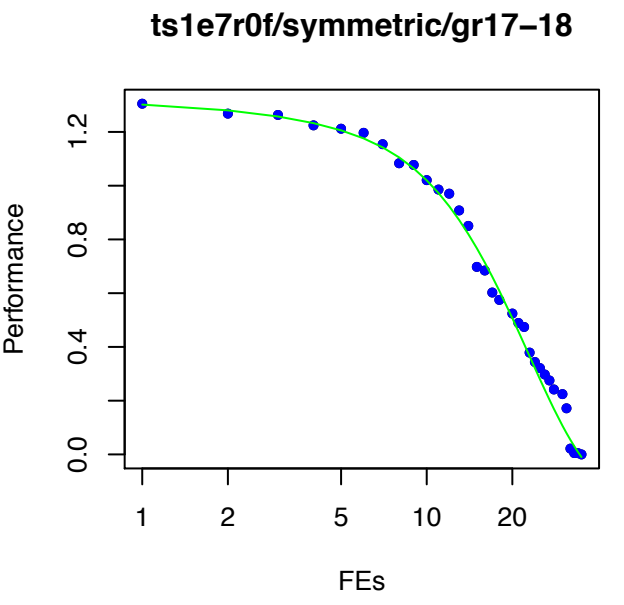
20
FEs


ts1e7r0f/symmetric/gr17−18
Performance
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0.8
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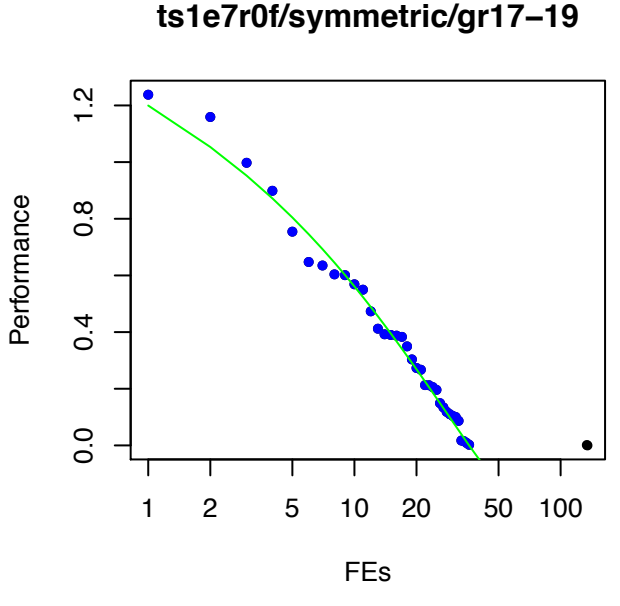
5
10
20
FEs


ts1e7r0f/symmetric/gr17−19
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2
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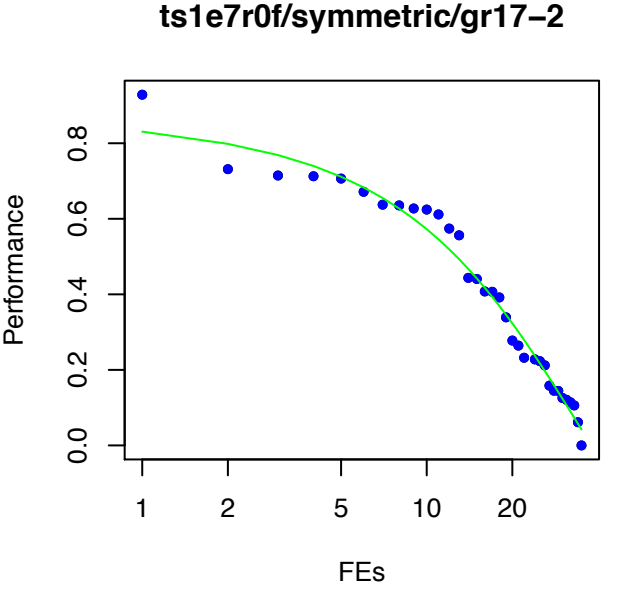
20
50
100
FEs


ts1e7r0f/symmetric/gr17−2
Performance
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0.4
0.6
0.8
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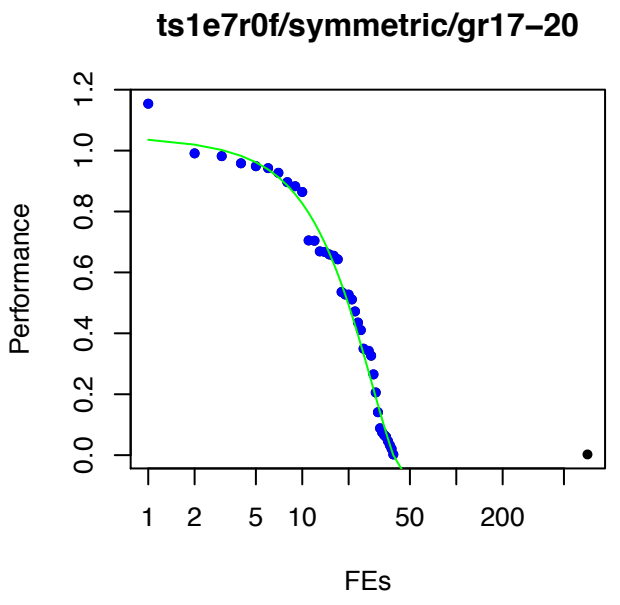
2
5
10
20
FEs


ts1e7r0f/symmetric/gr17−20
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0.4
0.6
0.8
1.0
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1
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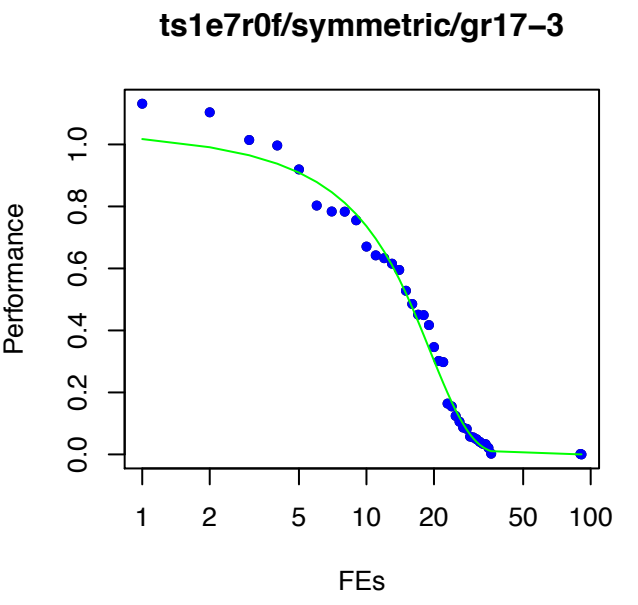
10
50
200
FEs


ts1e7r0f/symmetric/gr17−3
Performance
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0.4
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0.8
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1
2
5
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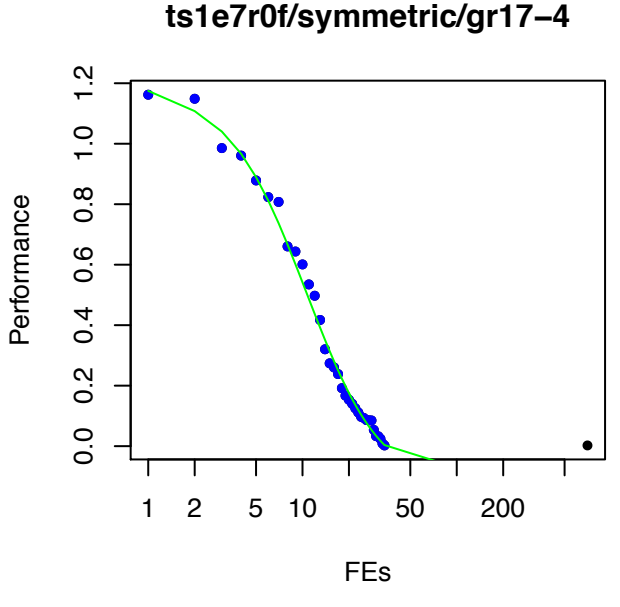
20
50
100
FEs


ts1e7r0f/symmetric/gr17−4
Performance
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0.4
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0.8
1.0
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1
2
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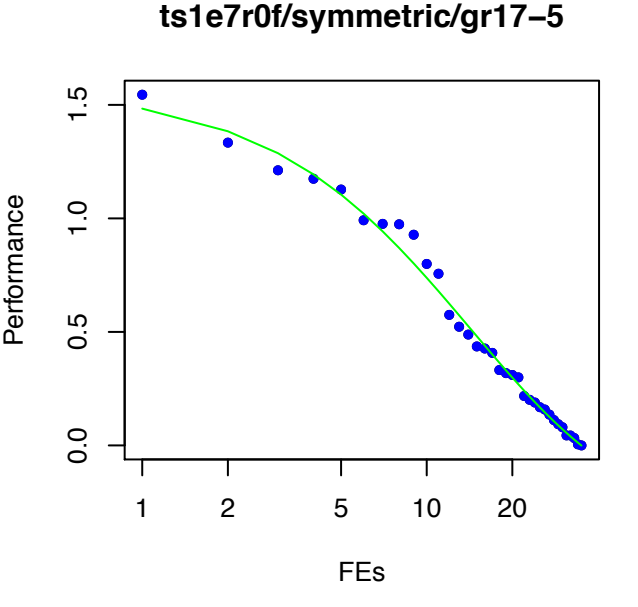
10
50
200
FEs


ts1e7r0f/symmetric/gr17−5
Performance
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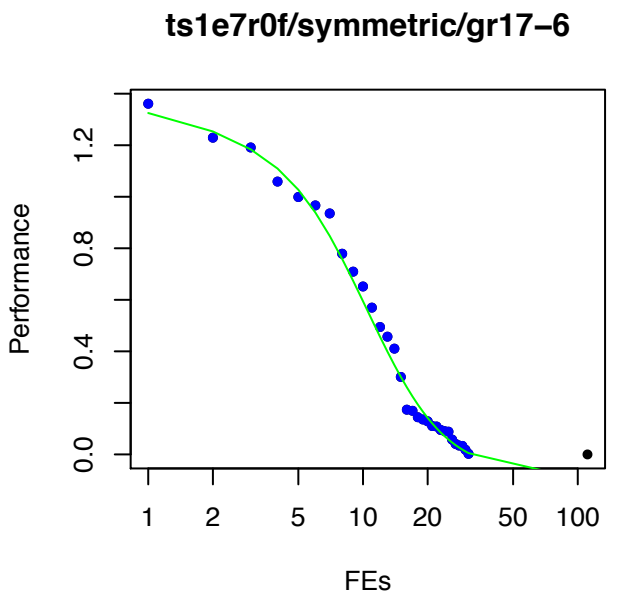
1
2
5
10
20
FEs


ts1e7r0f/symmetric/gr17−6
Performance
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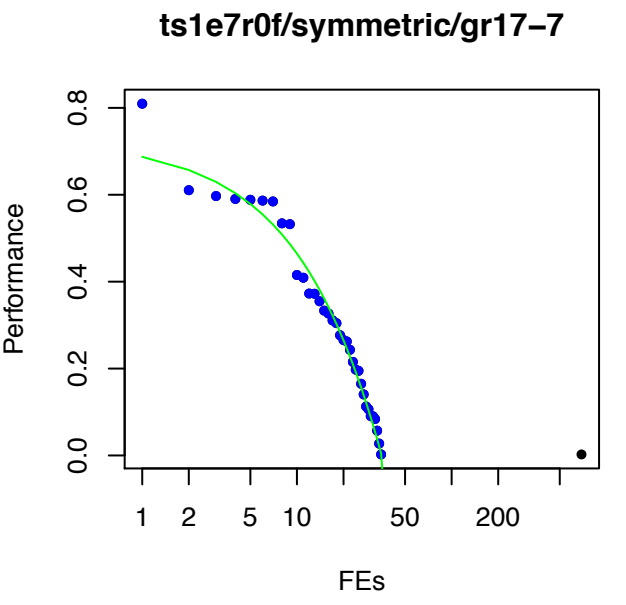
0.8
1.2
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/gr17−7
Performance
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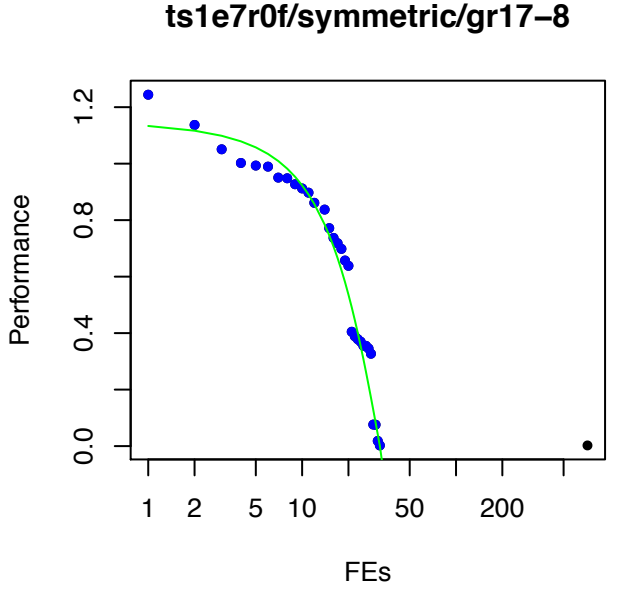
0.6
0.8
1
2
5
10
50
200
FEs


ts1e7r0f/symmetric/gr17−8
Performance
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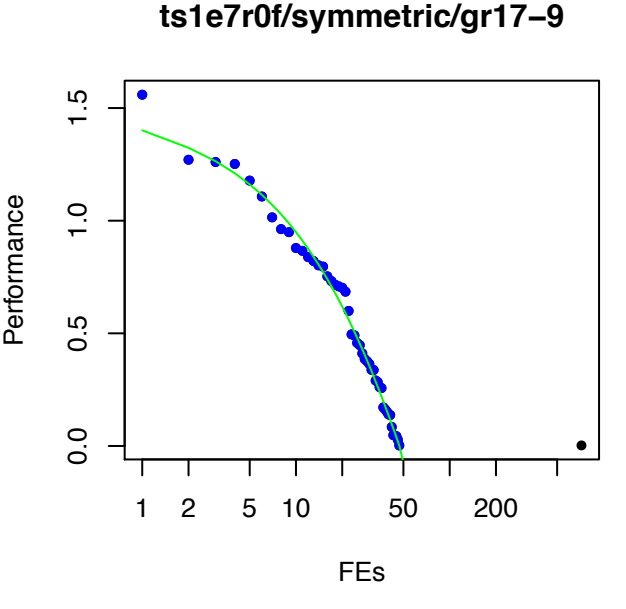
0.8
1.2
1
2
5
10
50
200
FEs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Performance
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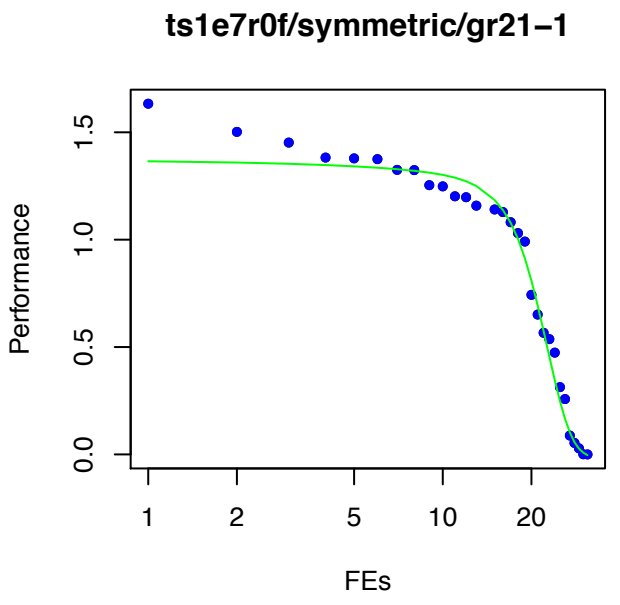
2
5
10
50
200
FEs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Performance
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1.5
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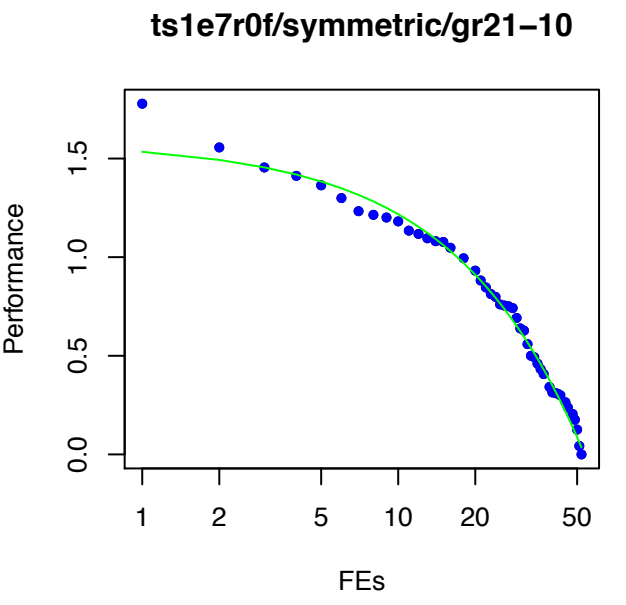
2
5
10
20
FEs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Performance
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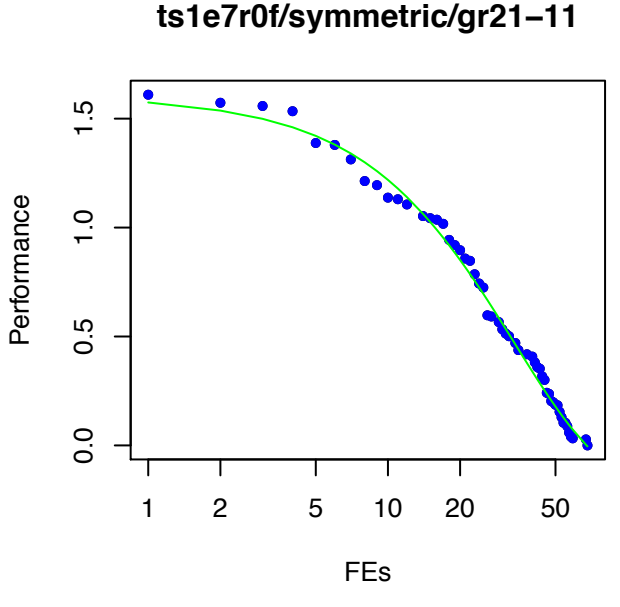
1
2
5
10
20
50
FEs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Performance
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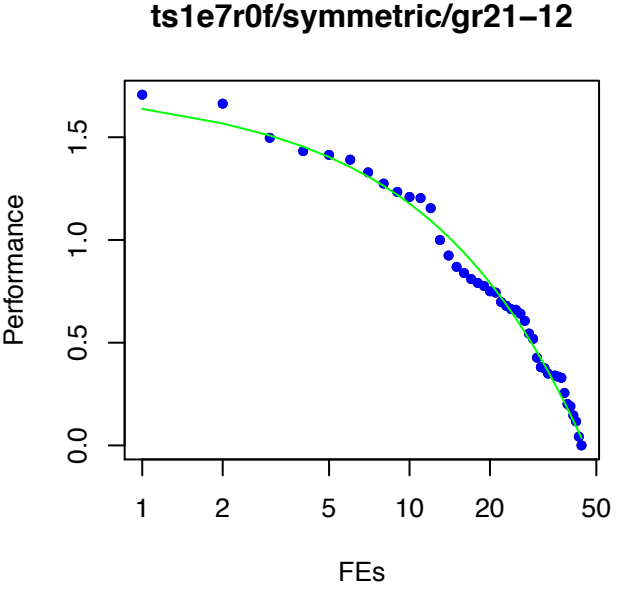
1
2
5
10
20
50
FEs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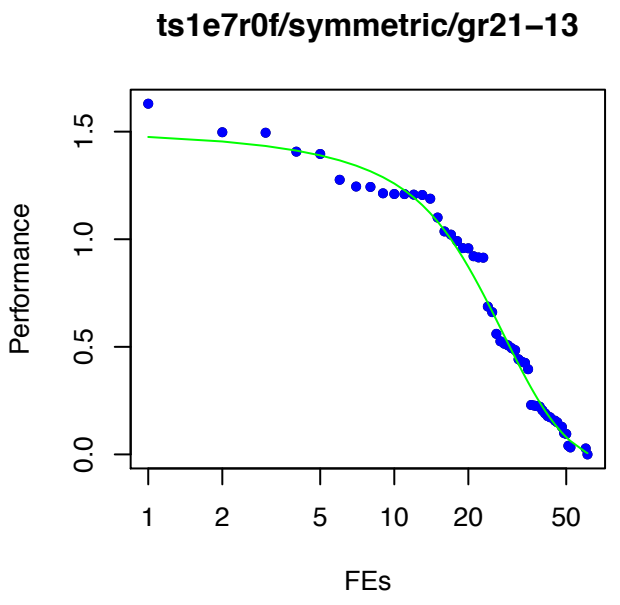
20
50
FEs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1
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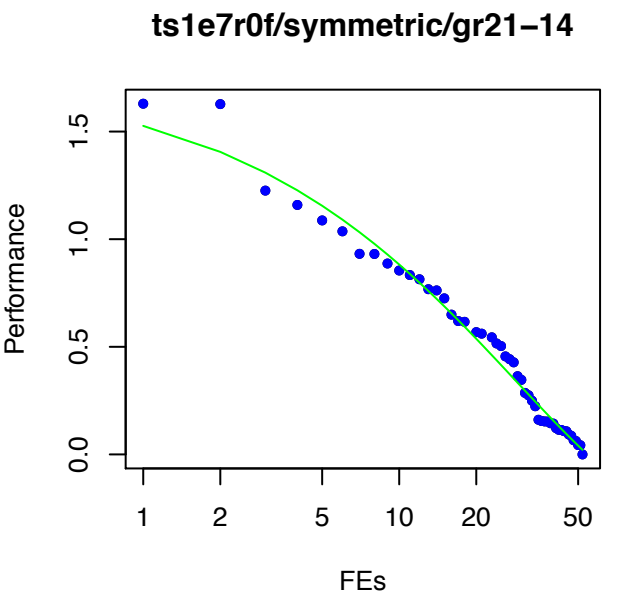
5
10
20
50
FEs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Performance
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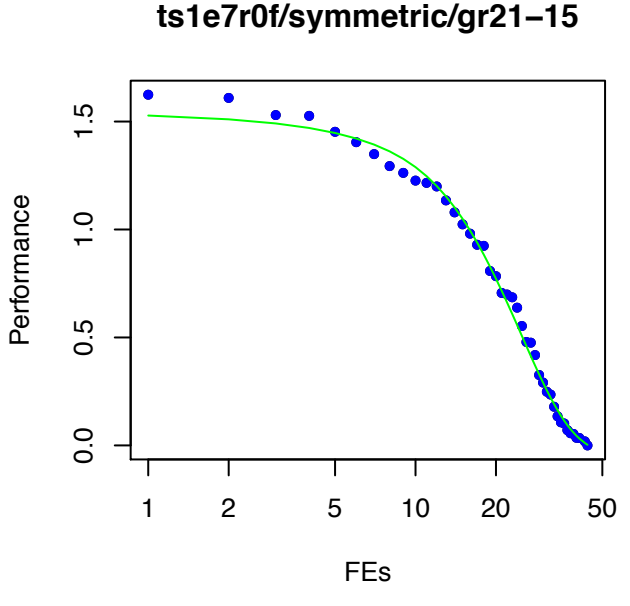
5
10
20
50
FEs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Performance
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1
2
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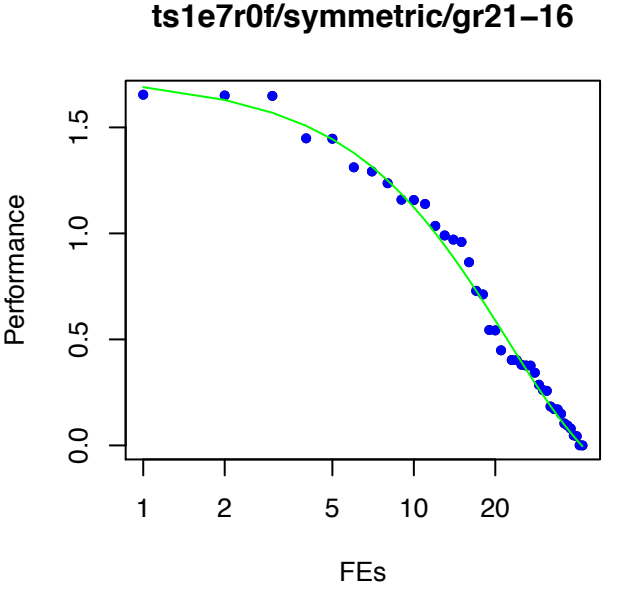
10
20
50
FEs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Performance
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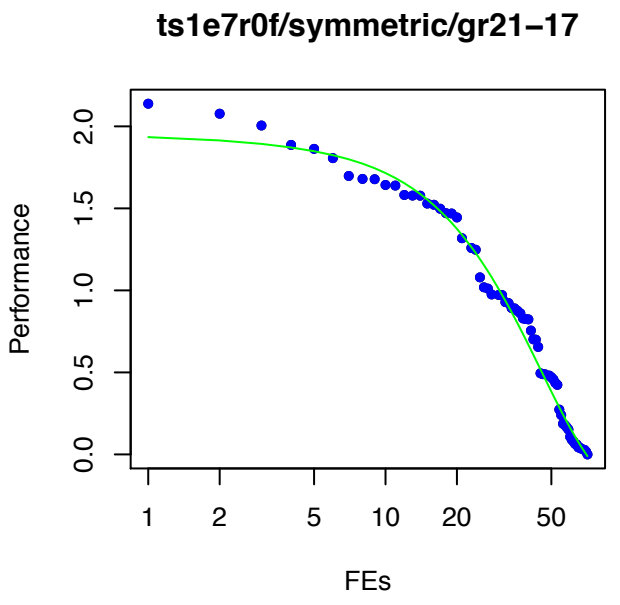
1.5
1
2
5
10
20
FEs


ts1e7r0f/symmetric/gr21−17
Performance
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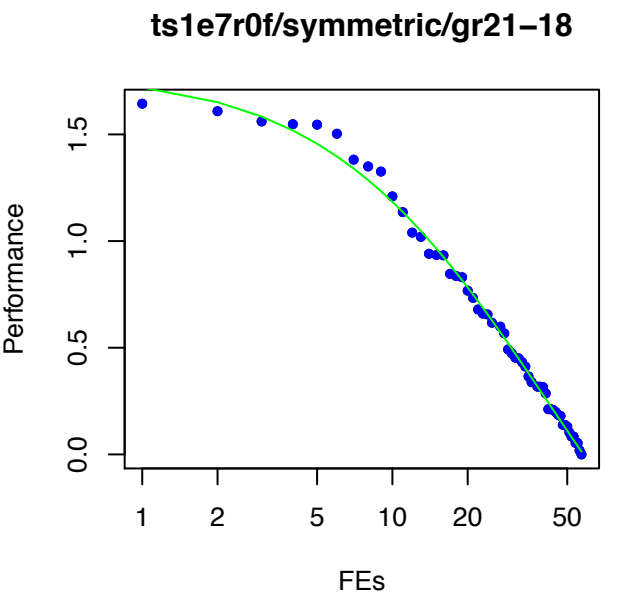
1
2
5
10
20
50
FEs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Performance
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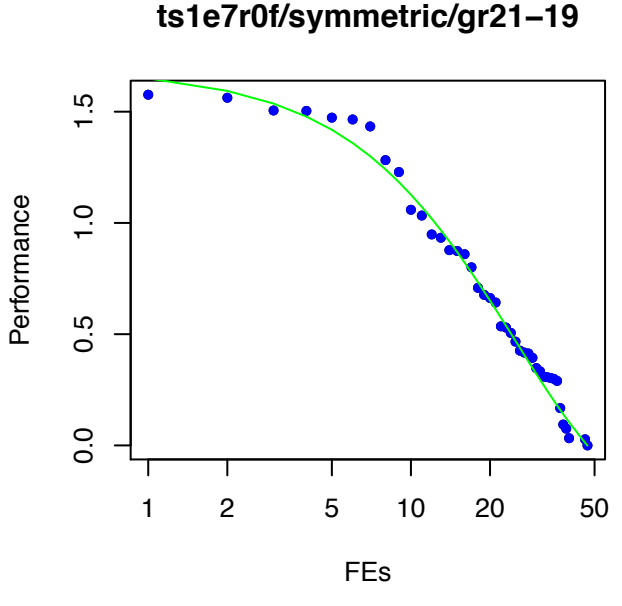
FEs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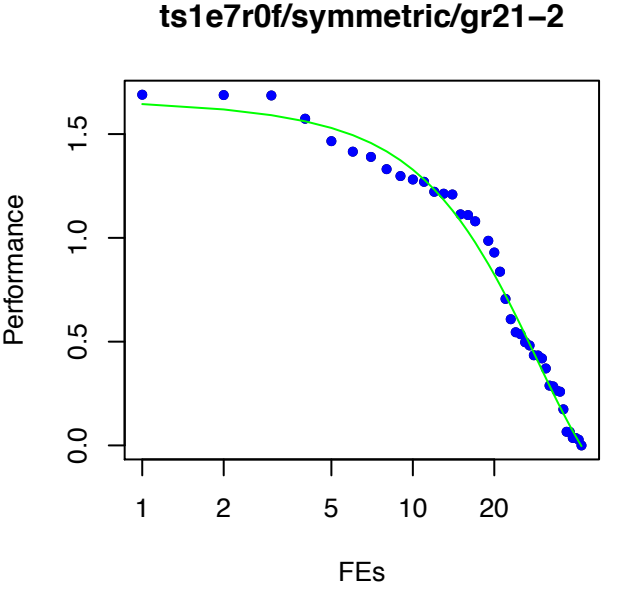
FEs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Performance
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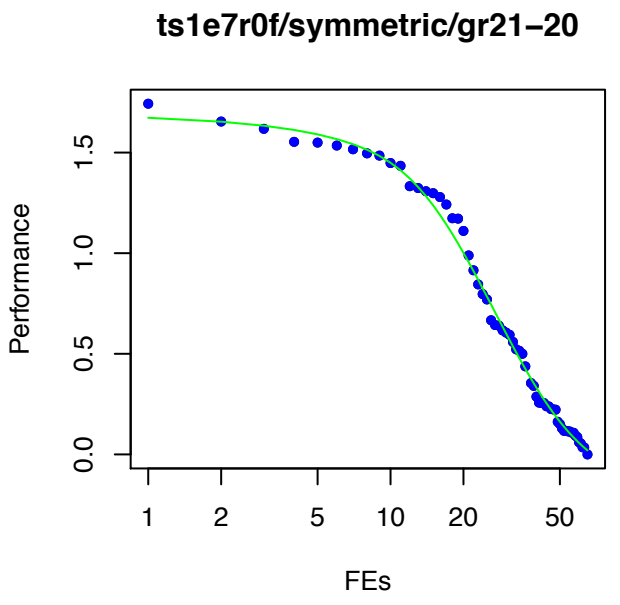
20
FEs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Performance
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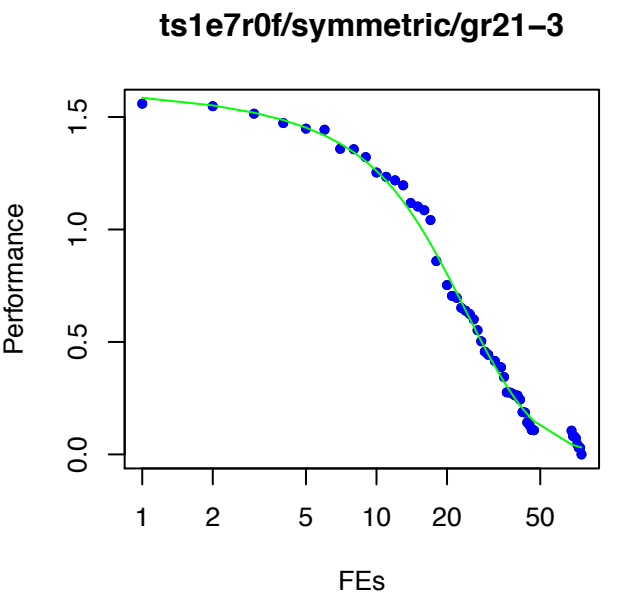
FEs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Performance
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1
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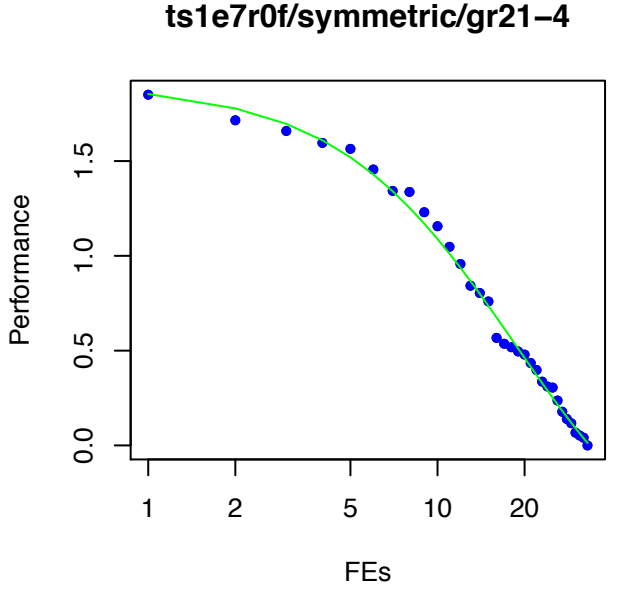
5
10
20
50
FEs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Performance
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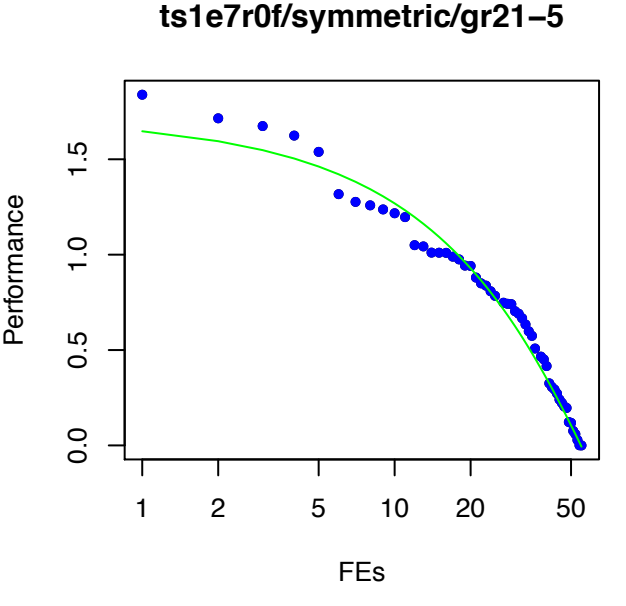
5
10
20
FEs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Performance
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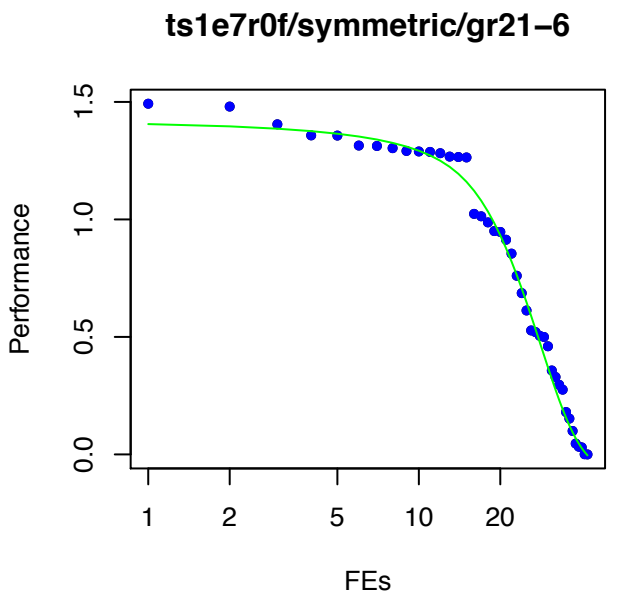
1
2
5
10
20
50
FEs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Performance
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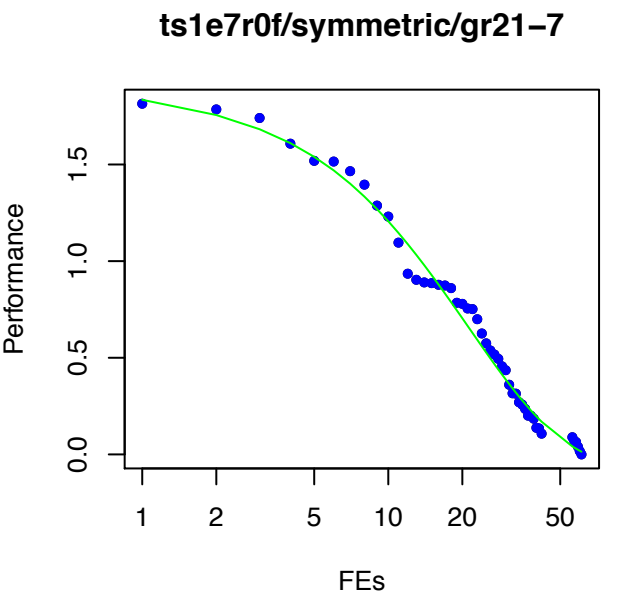
1.5
1
2
5
10
20
FEs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Performance
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1
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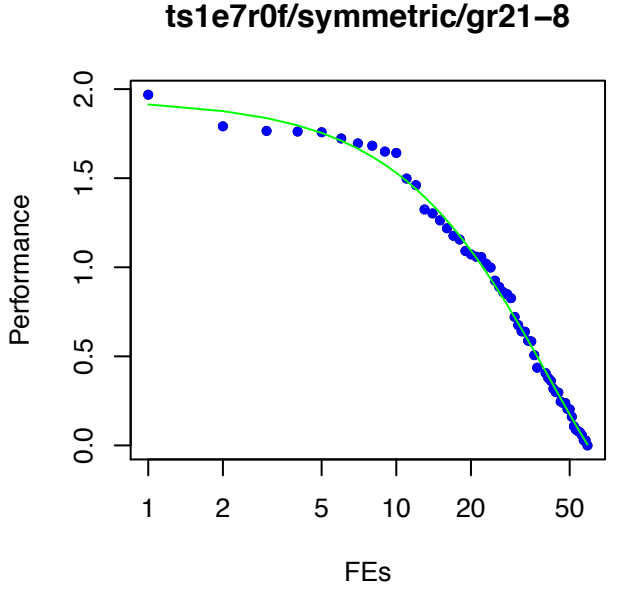
10
20
50
FEs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Performance
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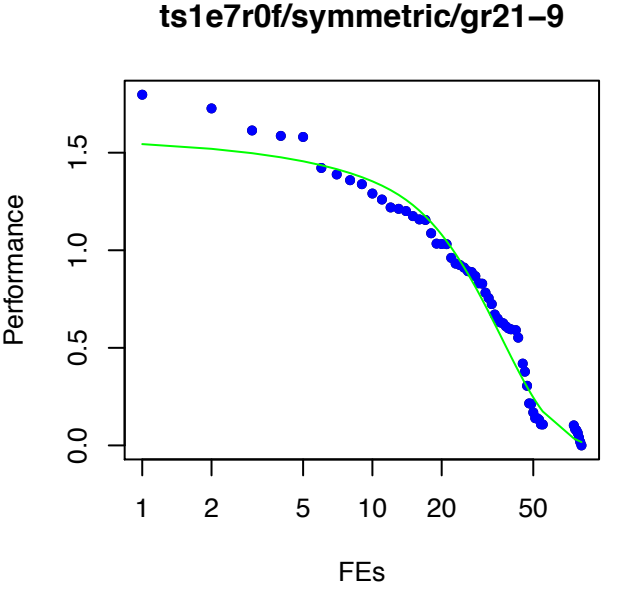
1.5
2.0
1
2
5
10
20
50
FEs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Performance
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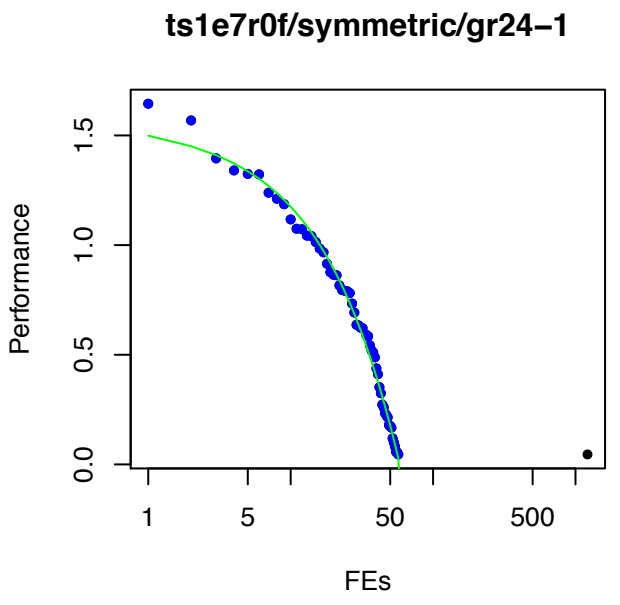
1.5
1
2
5
10
20
50
FEs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Performance
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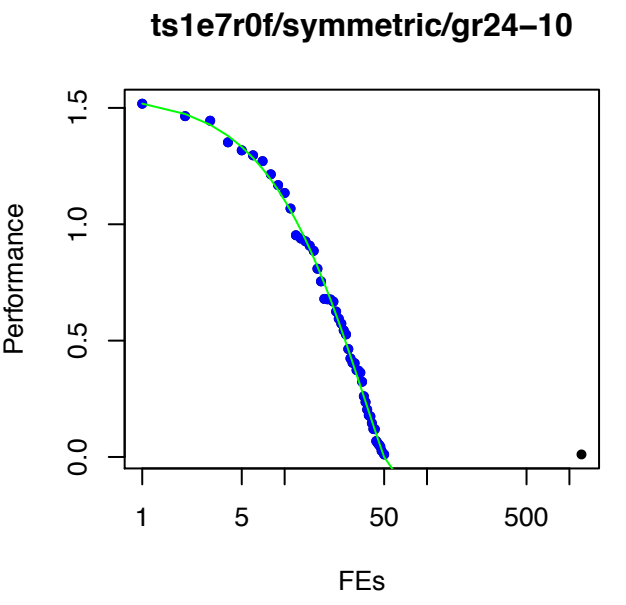
1.5
1
5
50
500
FEs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Performance
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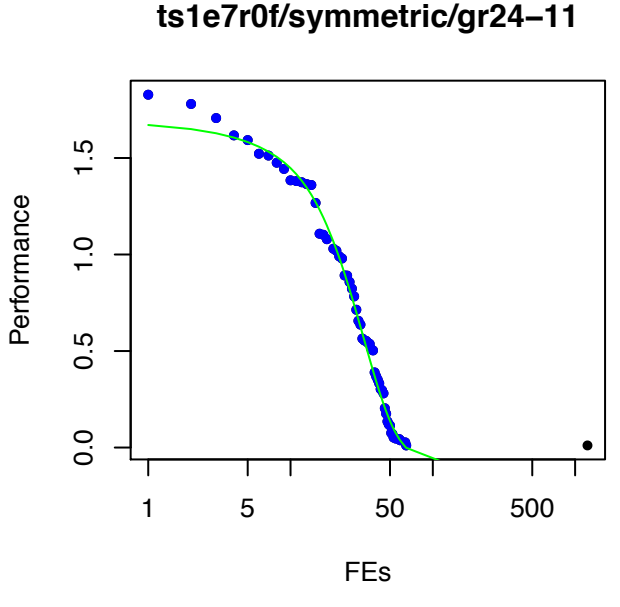
1.5
1
5
50
500
FEs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Performance
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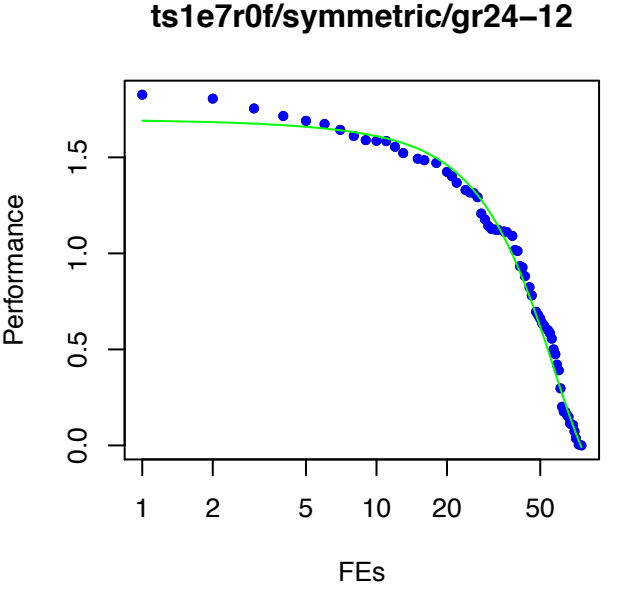
1.5
1
5
50
500
FEs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Performance
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1.0
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1
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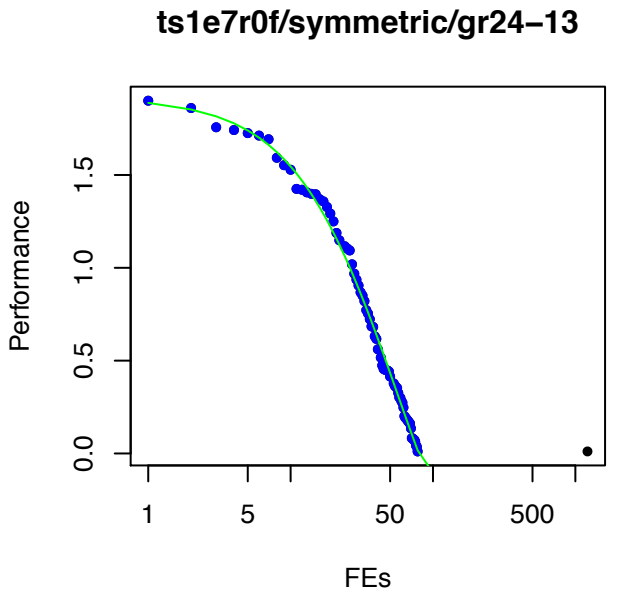
20
50
FEs


ts1e7r0f/symmetric/gr24−13
Performance
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1
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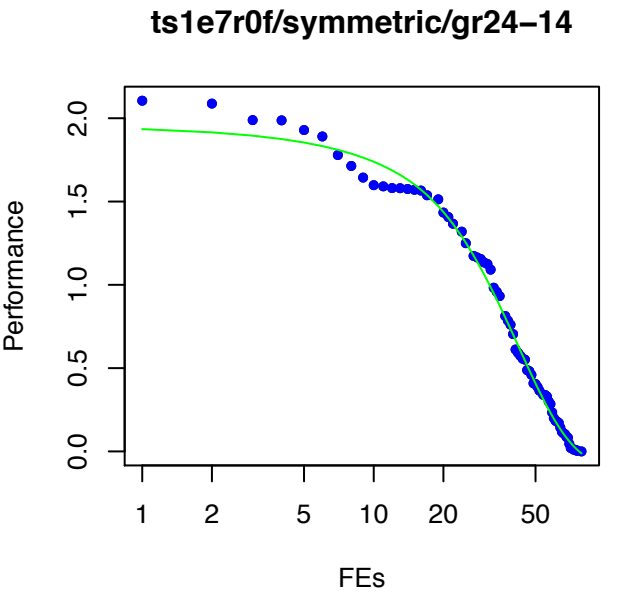
500
FEs


ts1e7r0f/symmetric/gr24−14
Performance
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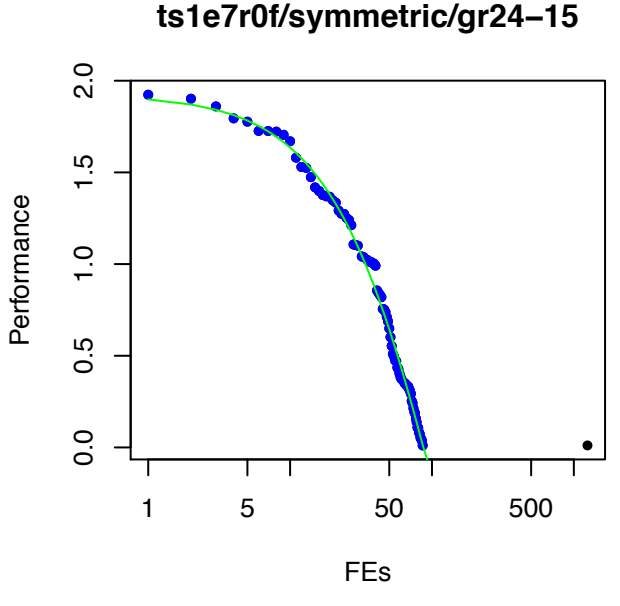
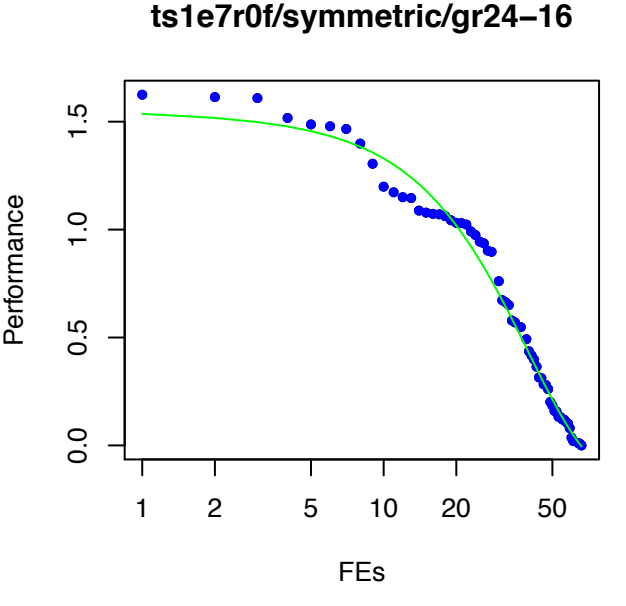
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/gr24−15
Performance
0.0
0.5
1.0
1.5
2.0
1
5
50
500
FEs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Performance
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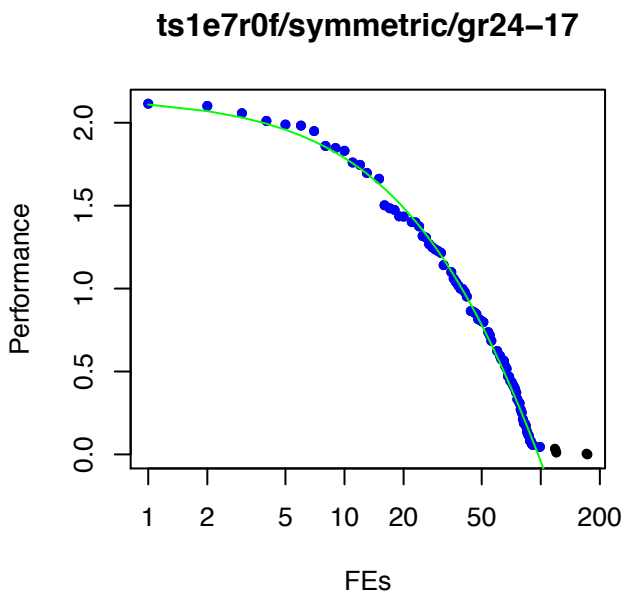
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/gr24−17
Performance
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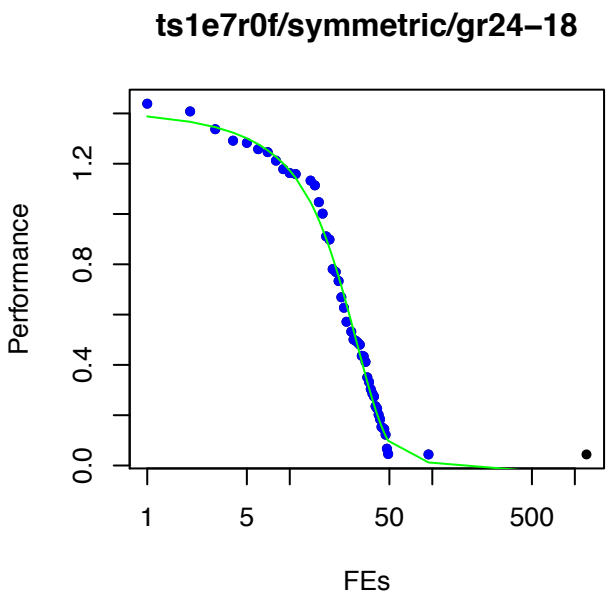
0.5
1.0
1.5
2.0
1
2
5
10
20
50
200
FEs


ts1e7r0f/symmetric/gr24−18
Performance
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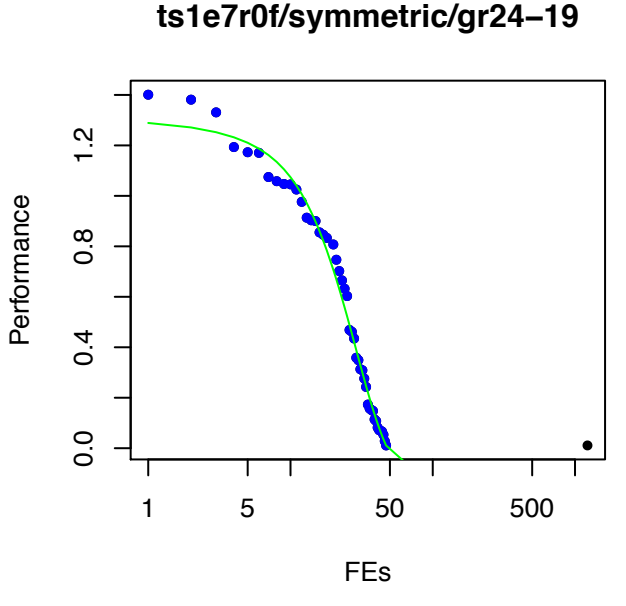
0.4
0.8
1.2
1
5
50
500
FEs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Performance
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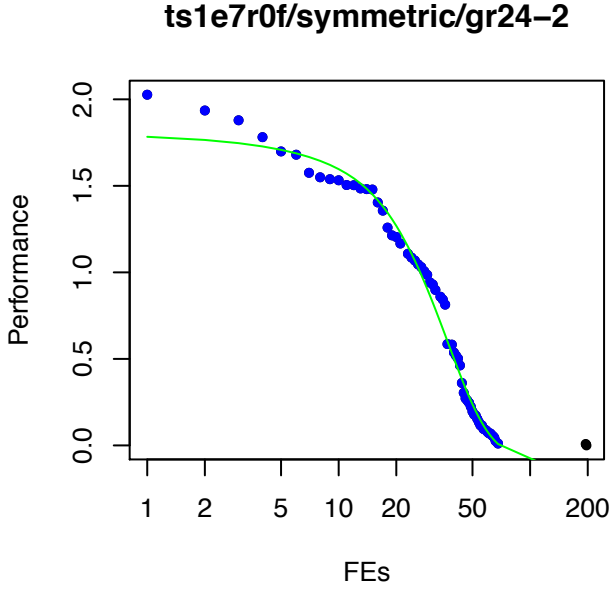
0.4
0.8
1.2
1
5
50
500
FEs


ts1e7r0f/symmetric/gr24−2
Performance
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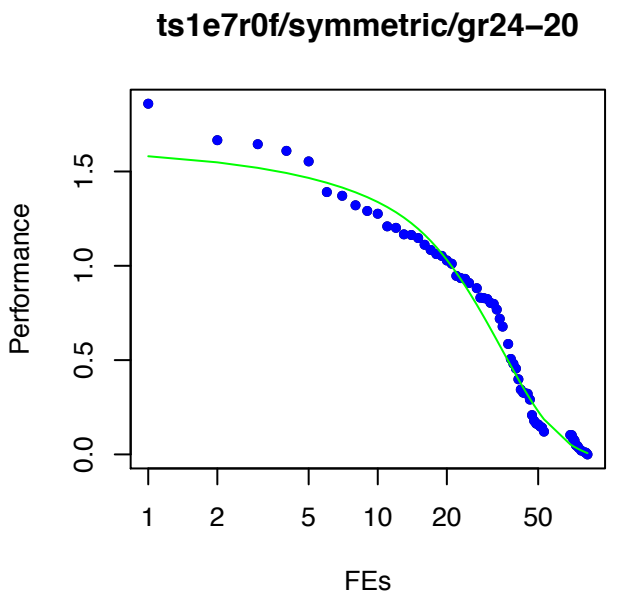
0.5
1.0
1.5
2.0
1
2
5
10
20
50
200
FEs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Performance
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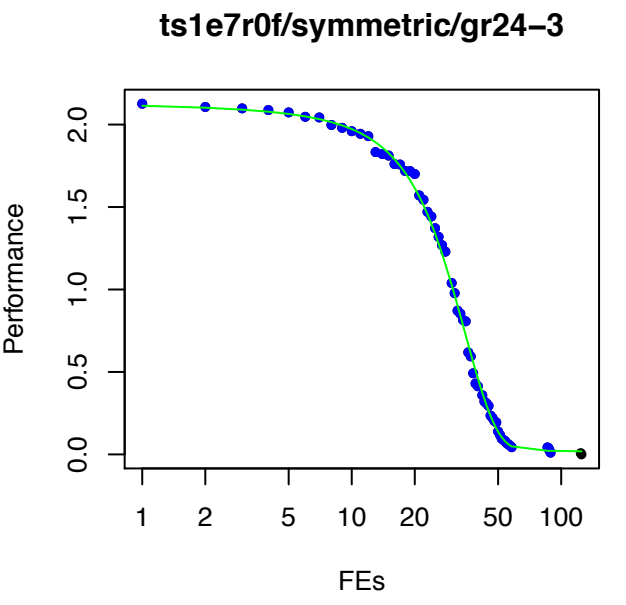
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/gr24−3
Performance
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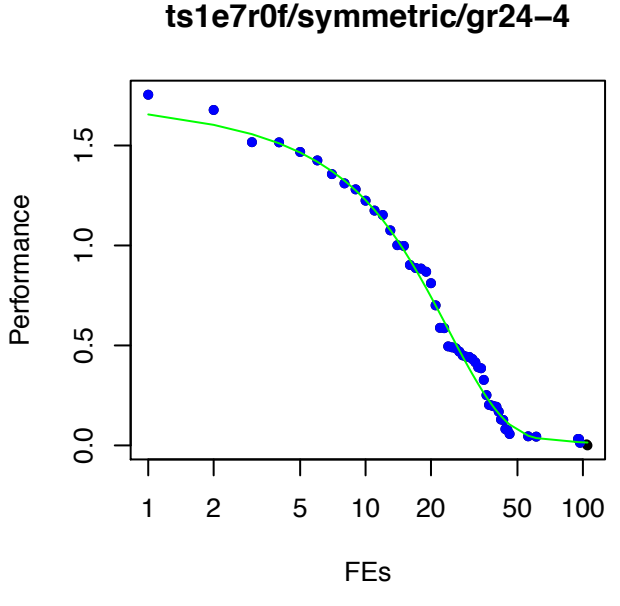
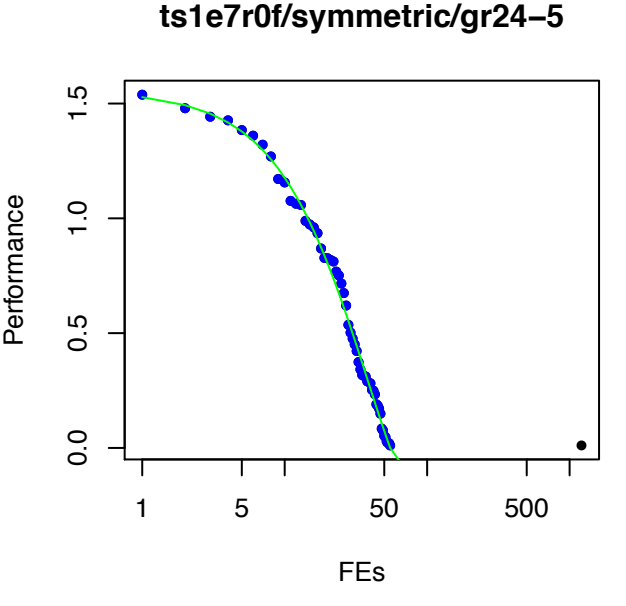
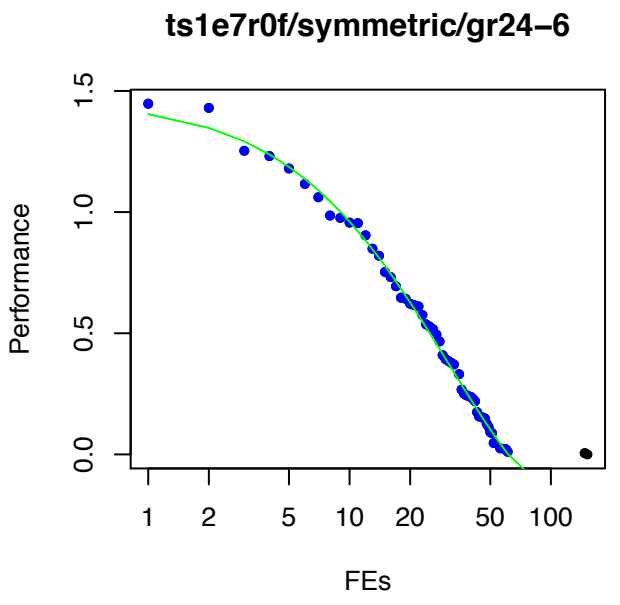
0.5
1.0
1.5
2.0
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/gr24−4
Performance
0.0
0.5
1.0
1.5
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/gr24−5
Performance
0.0
0.5
1.0
1.5
1
5
50
500
FEs


ts1e7r0f/symmetric/gr24−6
Performance
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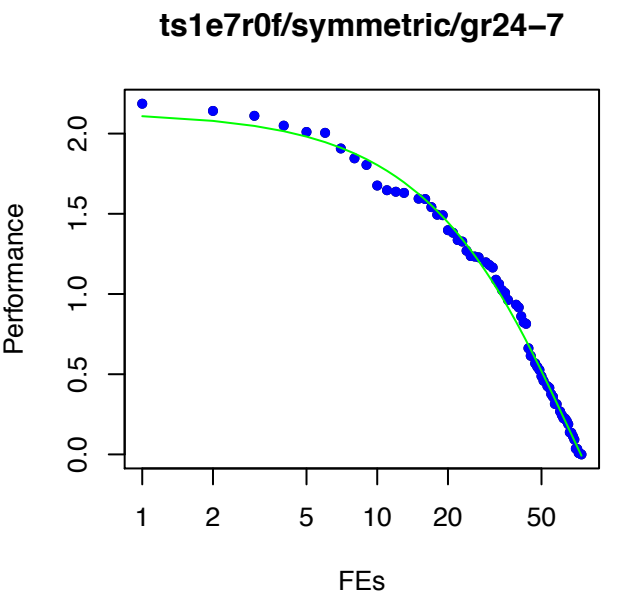
0.5
1.0
1.5
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/gr24−7
Performance
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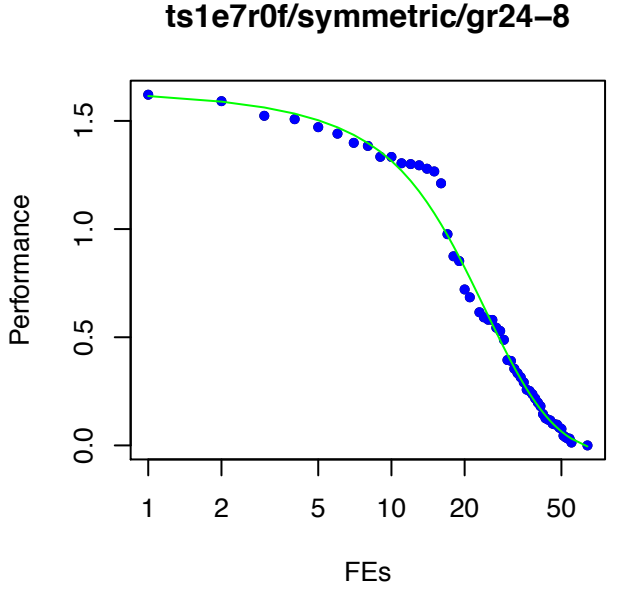
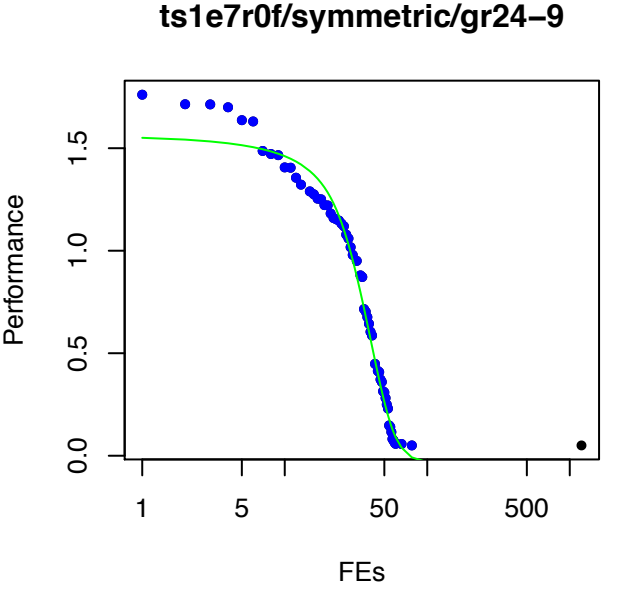
0.5
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/gr24−8
Performance
0.0
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/gr24−9
Performance
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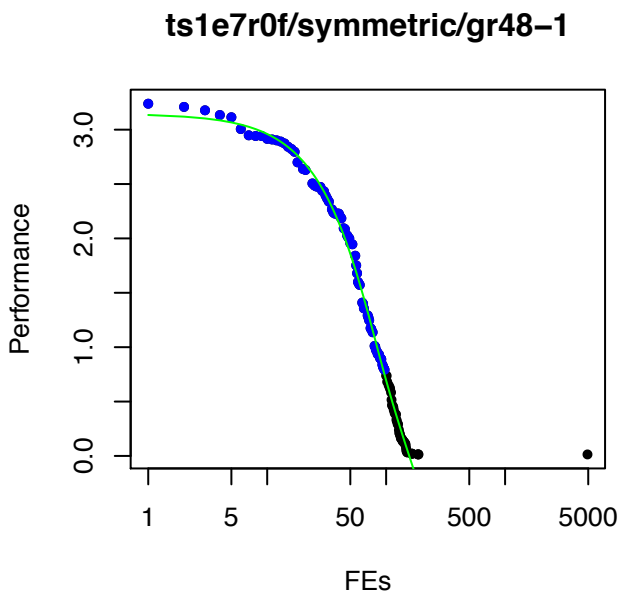
0.5
1.0
1.5
1
5
50
500
FEs


ts1e7r0f/symmetric/gr48−1
Performance
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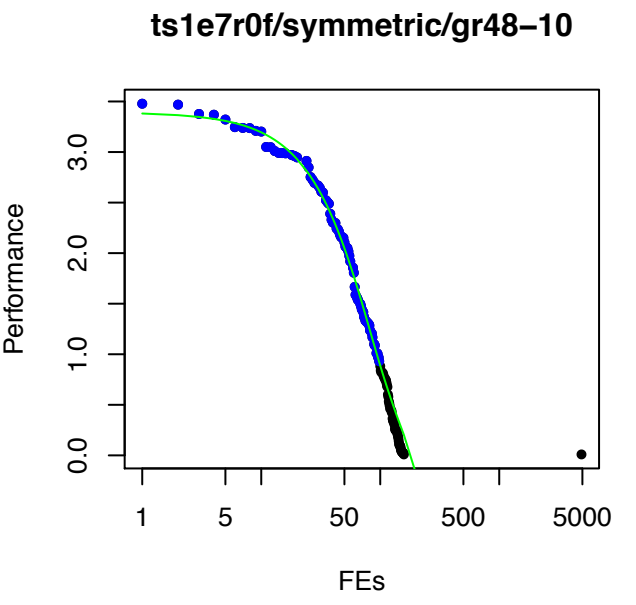
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−10
Performance
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2.0
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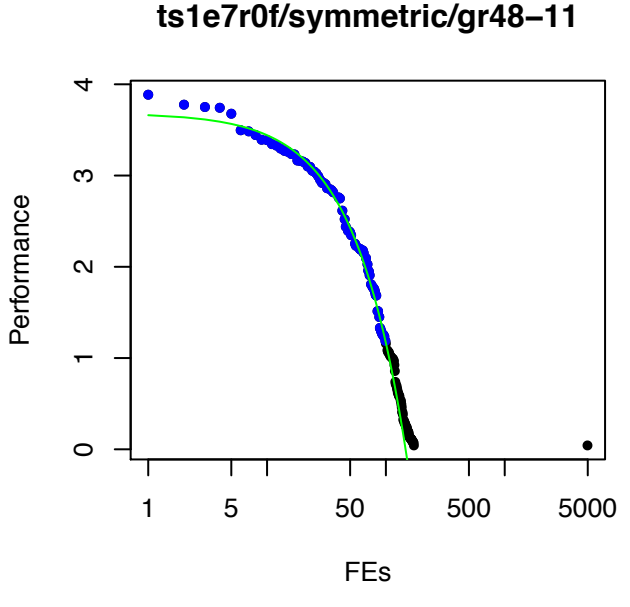
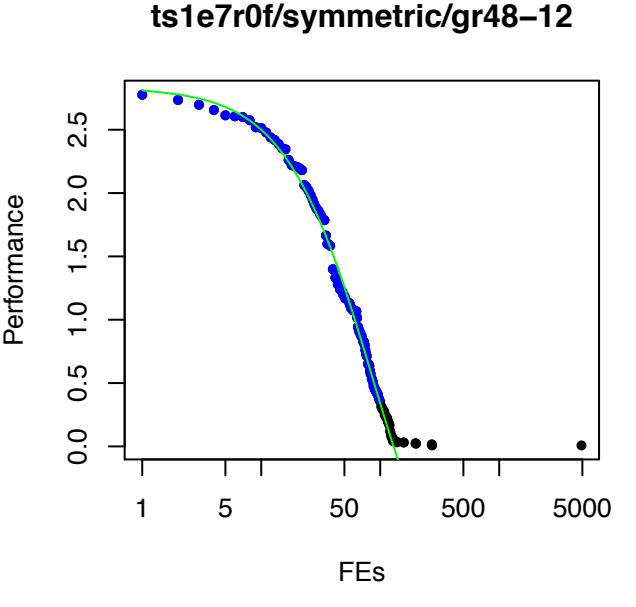
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−11
Performance
0
1
2
3
4
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−12
Performance
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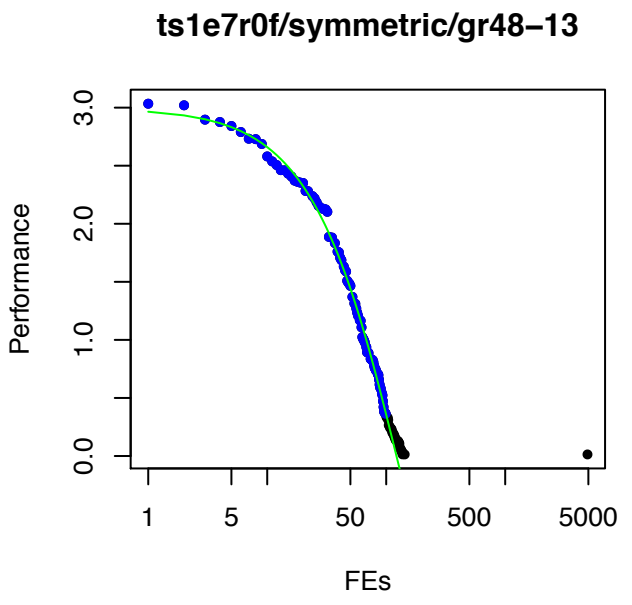
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−13
Performance
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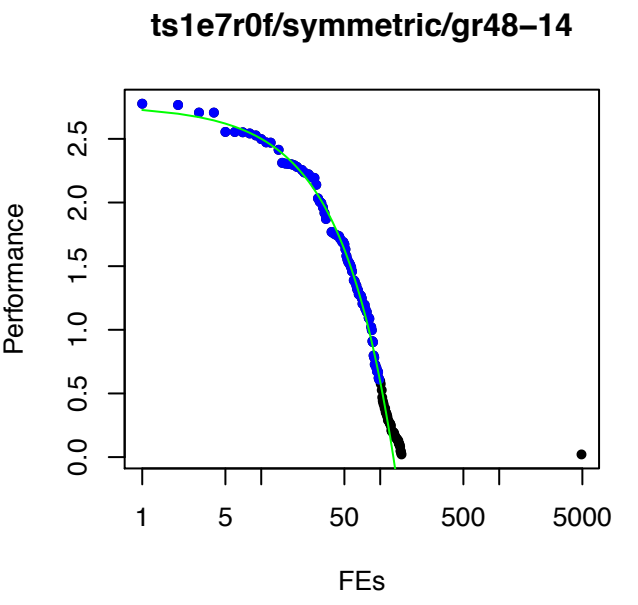
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−14
Performance
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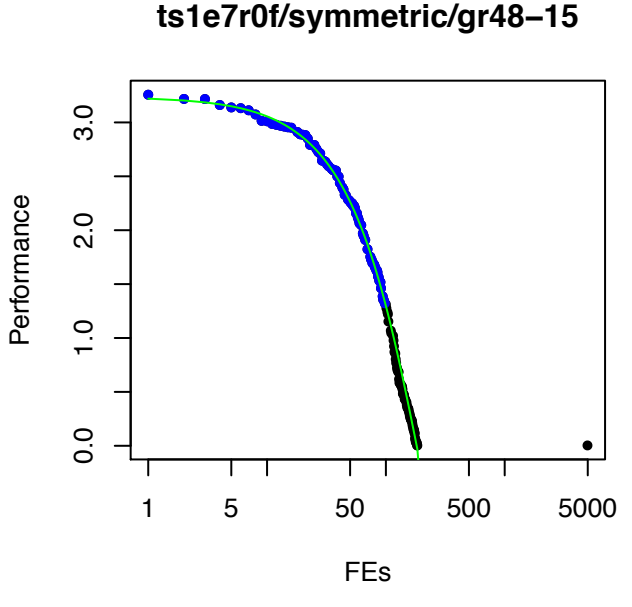
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−15
Performance
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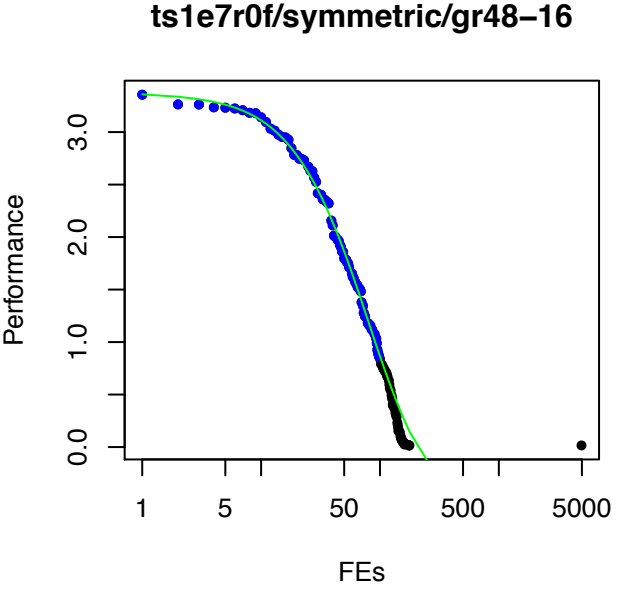
2.0
3.0
1
5
50
500
5000
FEs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Performance
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3.0
1
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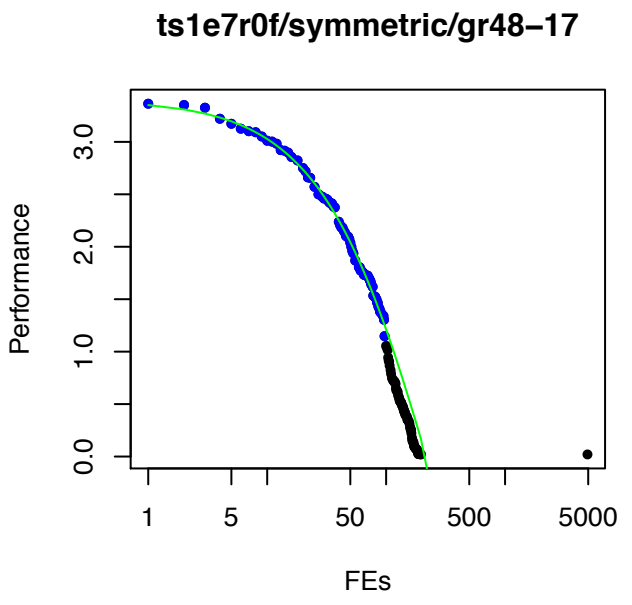
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−17
Performance
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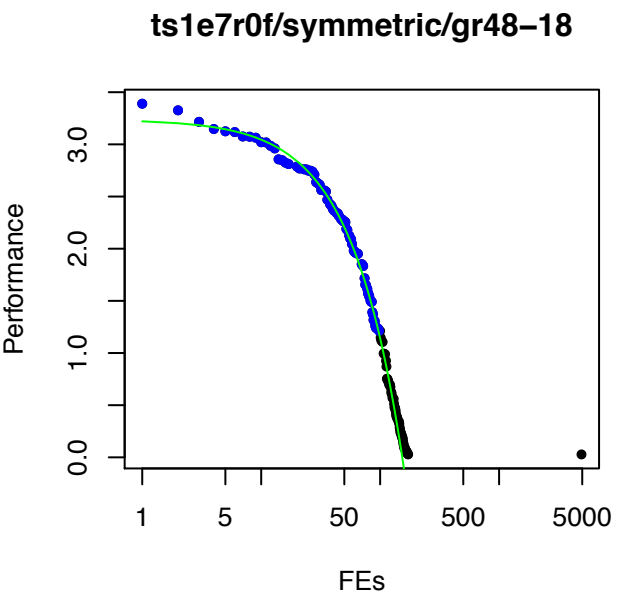
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−18
Performance
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3.0
1
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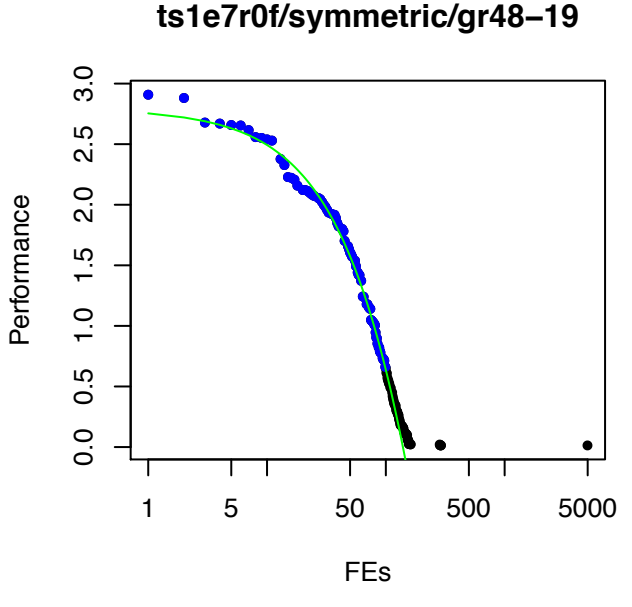
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−19
Performance
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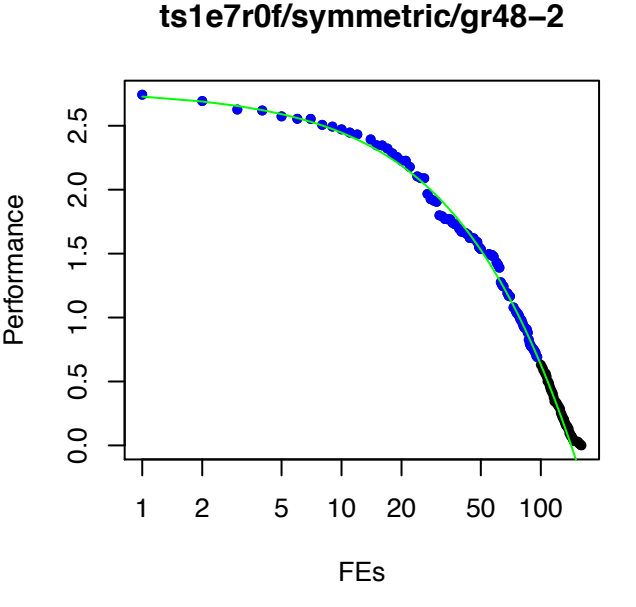
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−2
Performance
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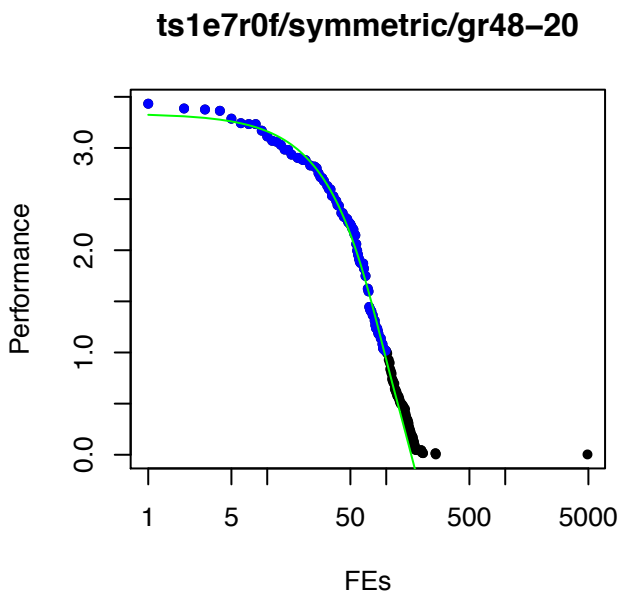
1.5
2.0
2.5
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/gr48−20
Performance
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3.0
1
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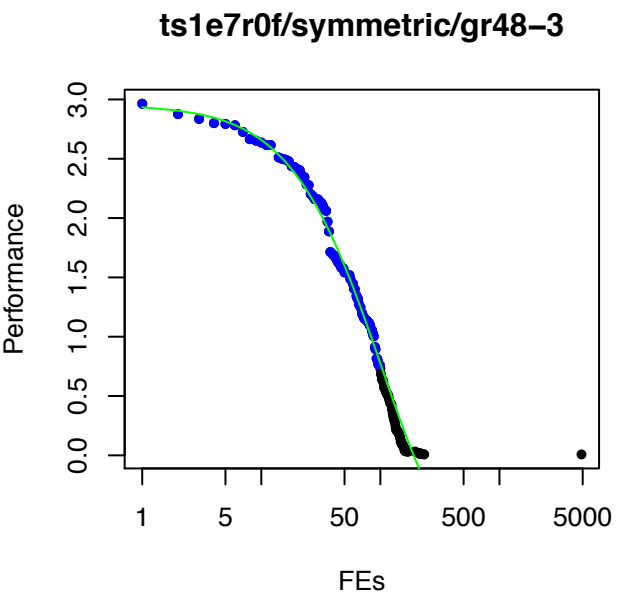
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−3
Performance
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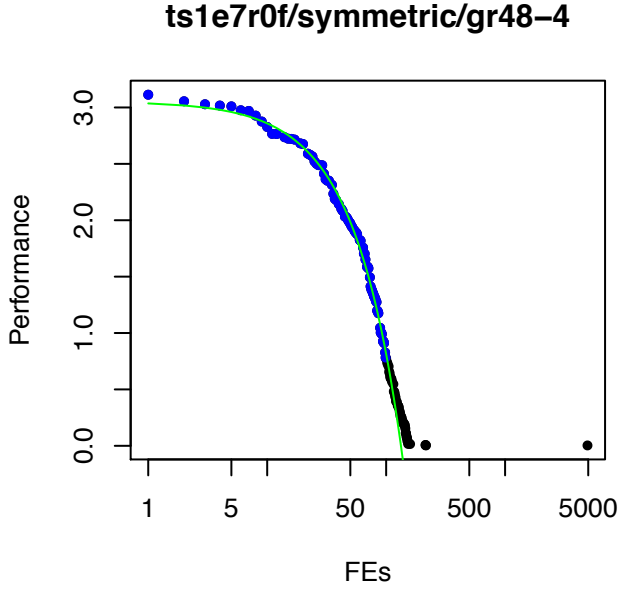
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−4
Performance
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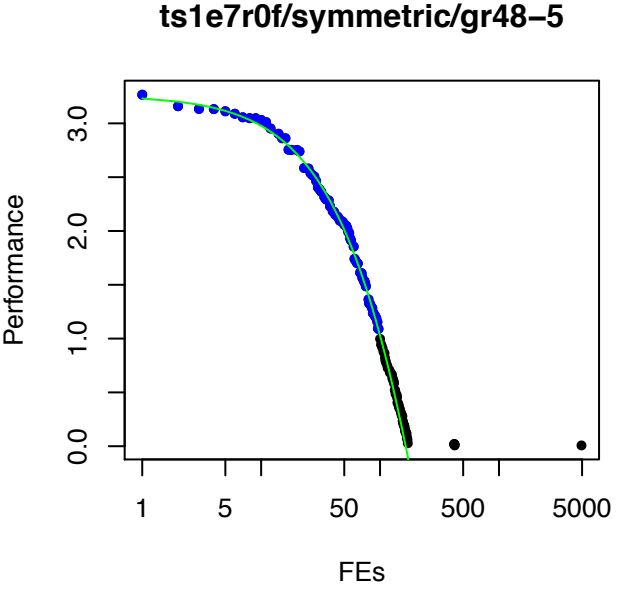
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−5
Performance
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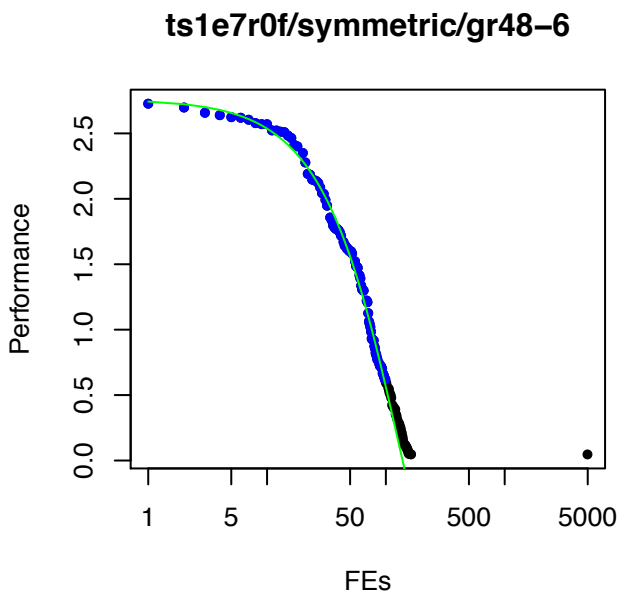
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−6
Performance
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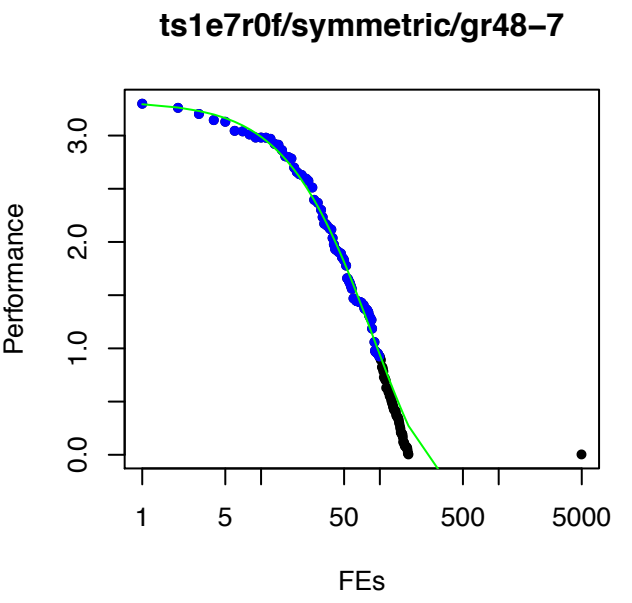
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−7
Performance
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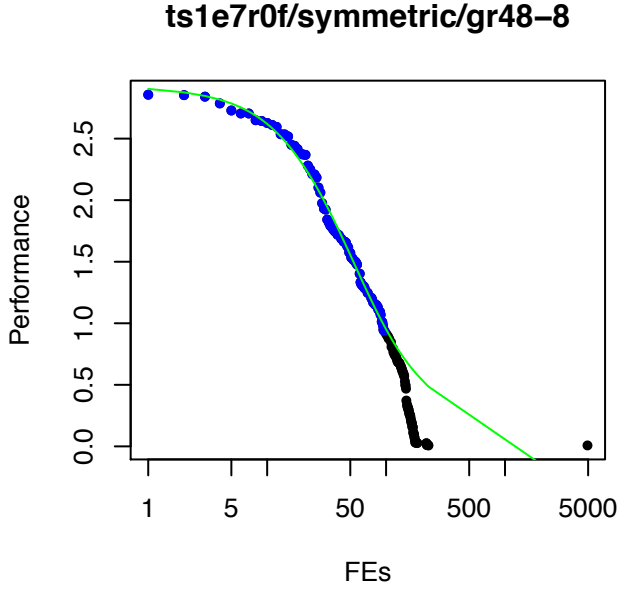
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−8
Performance
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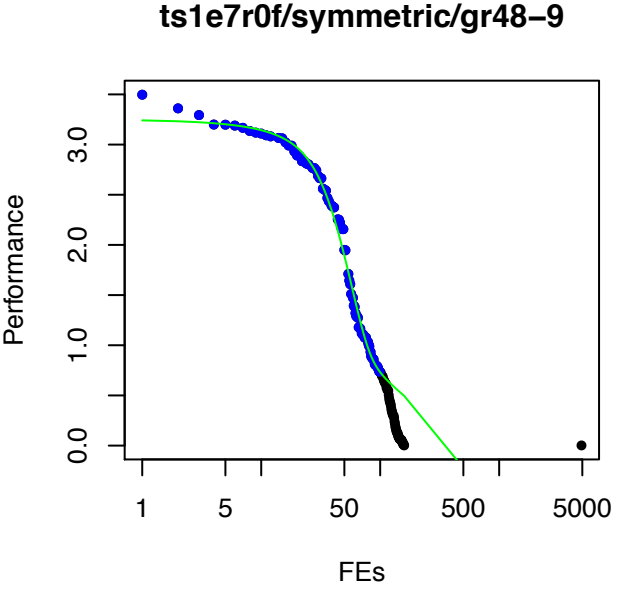
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−9
Performance
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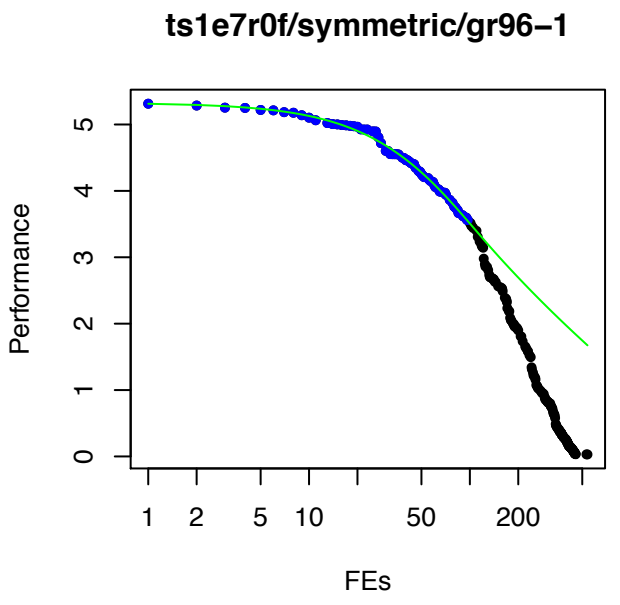
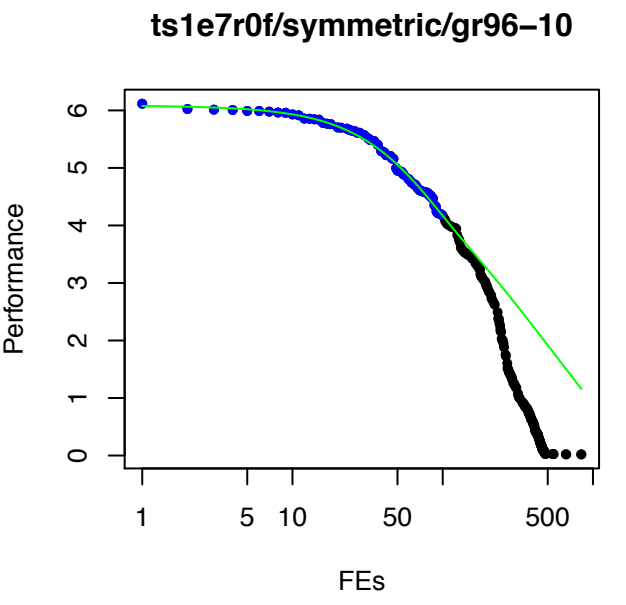
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr96−1
Performance
0
1
2
3
4
5
1
2
5
10
50
200
FEs


ts1e7r0f/symmetric/gr96−10
Performance
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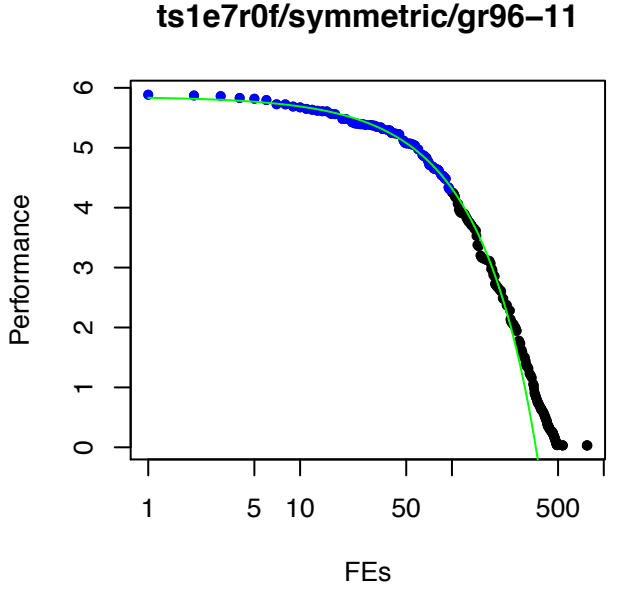
4
5
6
1
5
10
50
500
FEs


ts1e7r0f/symmetric/gr96−11
Performance
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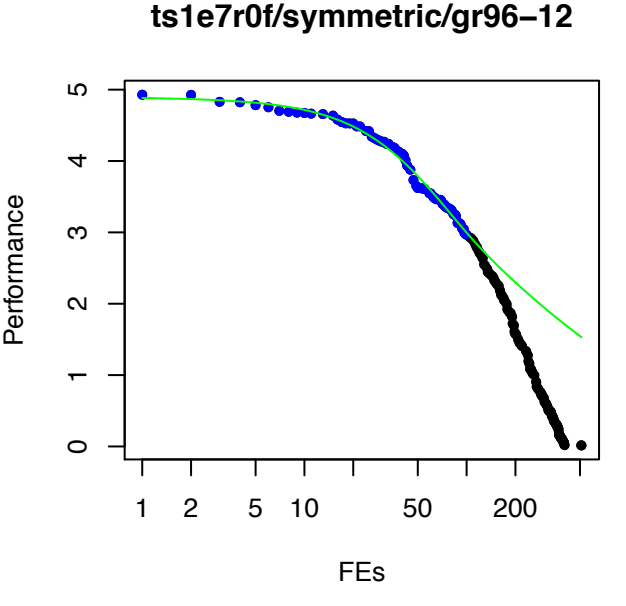
2
3
4
5
6
1
5
10
50
500
FEs


ts1e7r0f/symmetric/gr96−12
Performance
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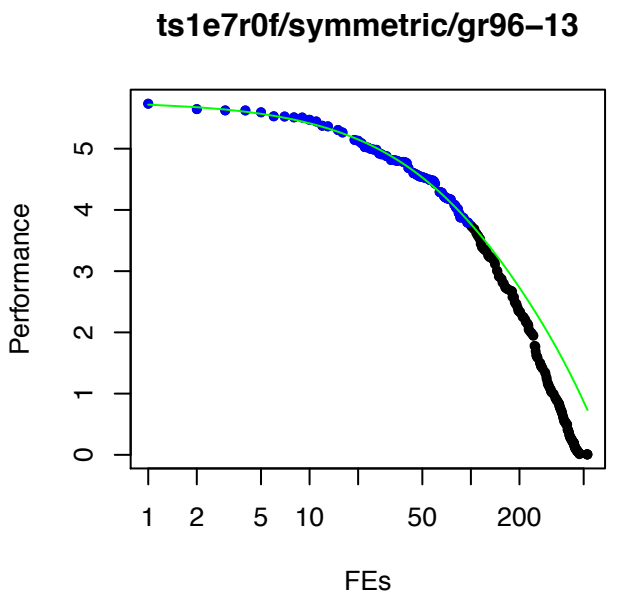
2
3
4
5
1
2
5
10
50
200
FEs


ts1e7r0f/symmetric/gr96−13
Performance
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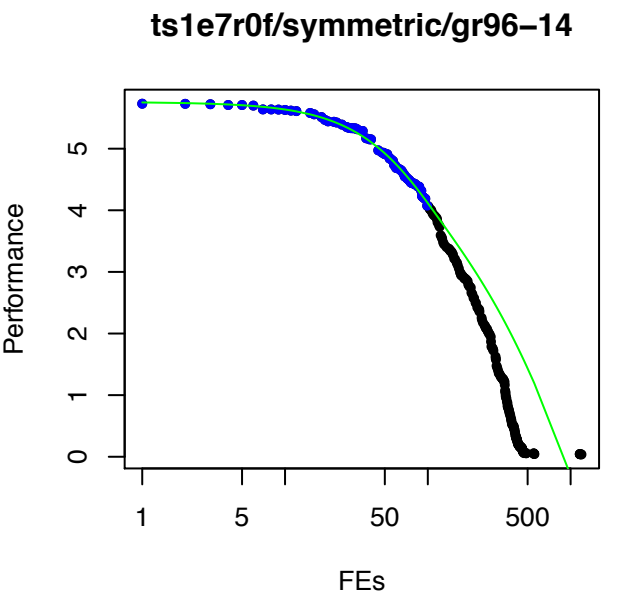
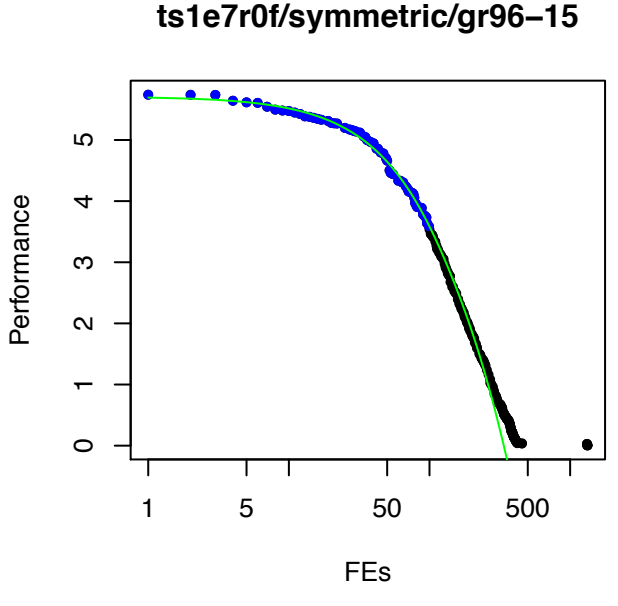
2
3
4
5
1
2
5
10
50
200
FEs


ts1e7r0f/symmetric/gr96−14
Performance
0
1
2
3
4
5
1
5
50
500
FEs


ts1e7r0f/symmetric/gr96−15
Performance
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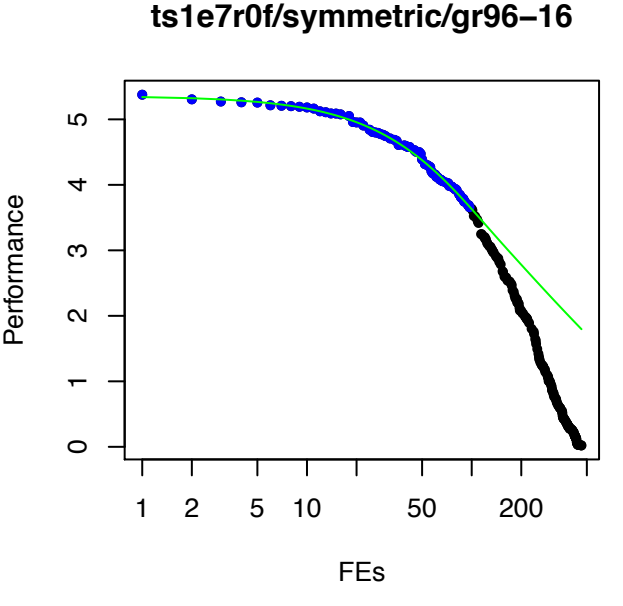
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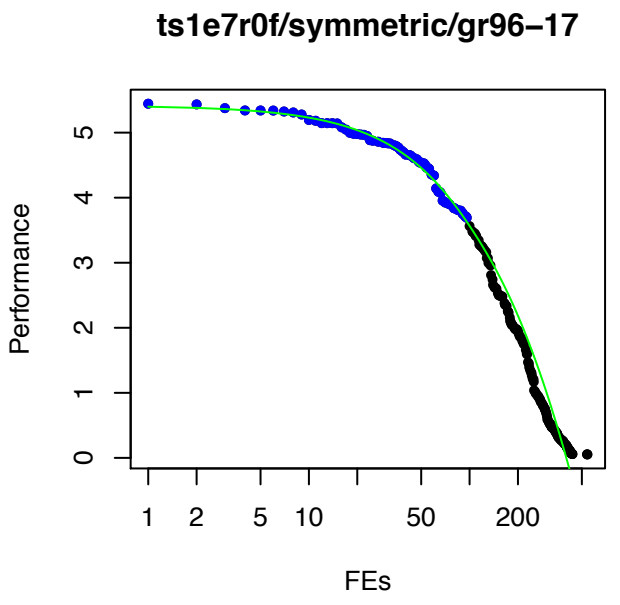
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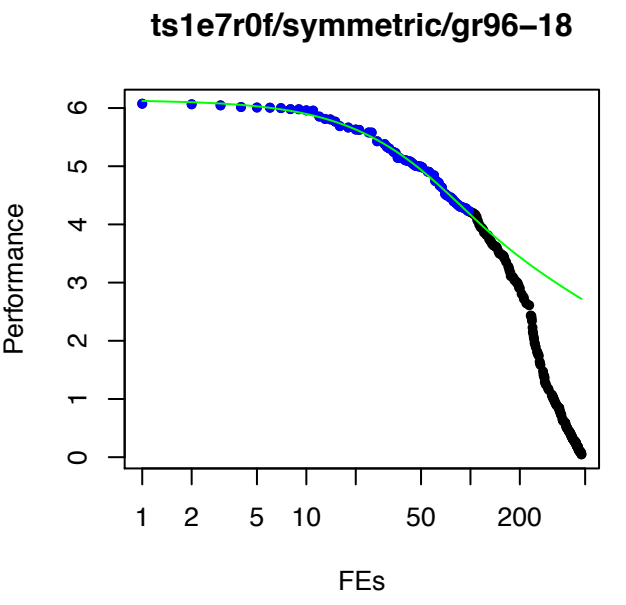
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Performance
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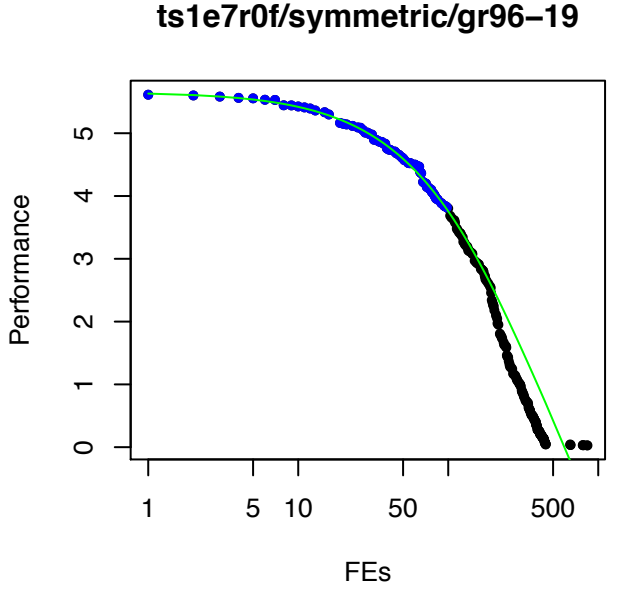
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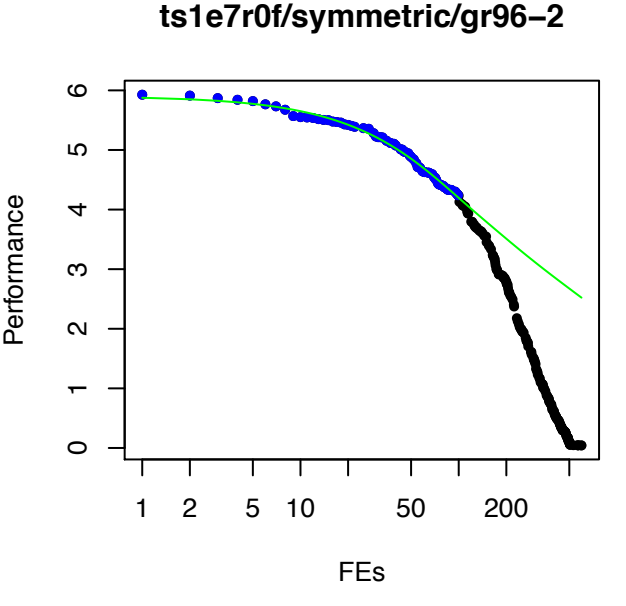
FEs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Performance
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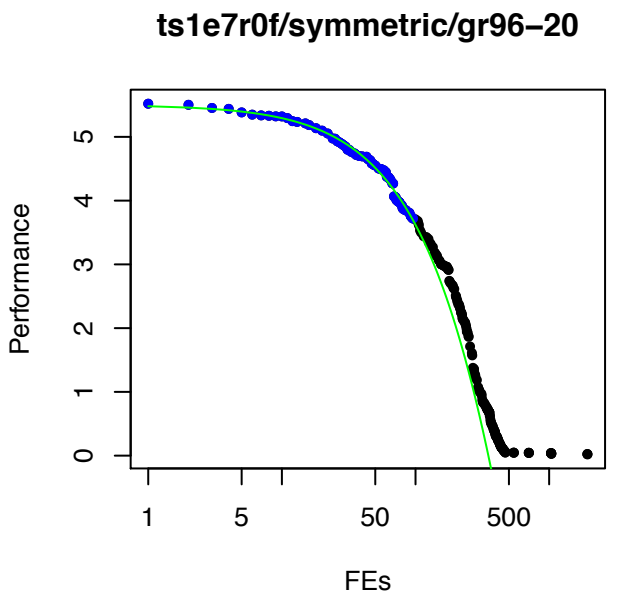
FEs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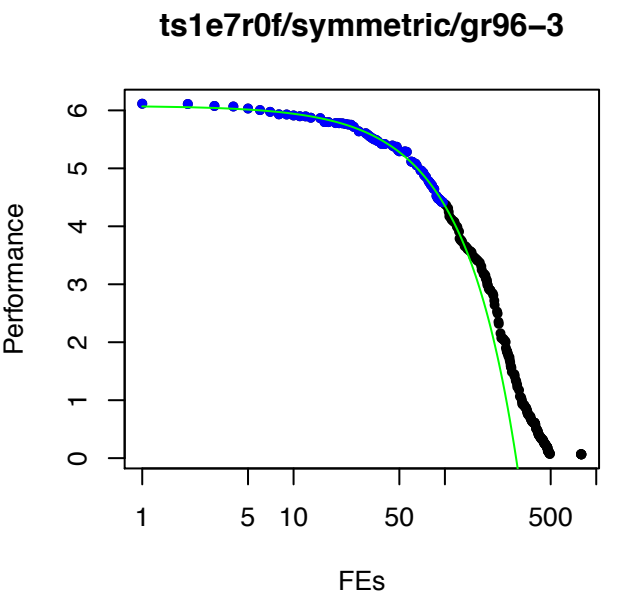
FEs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Performance
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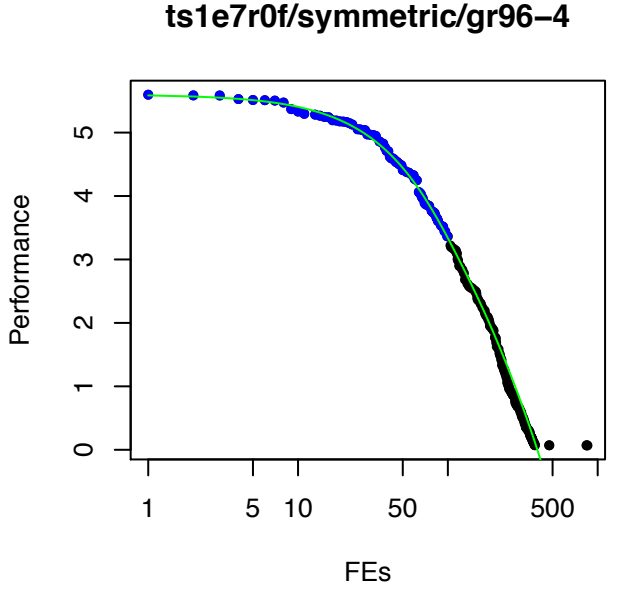
FEs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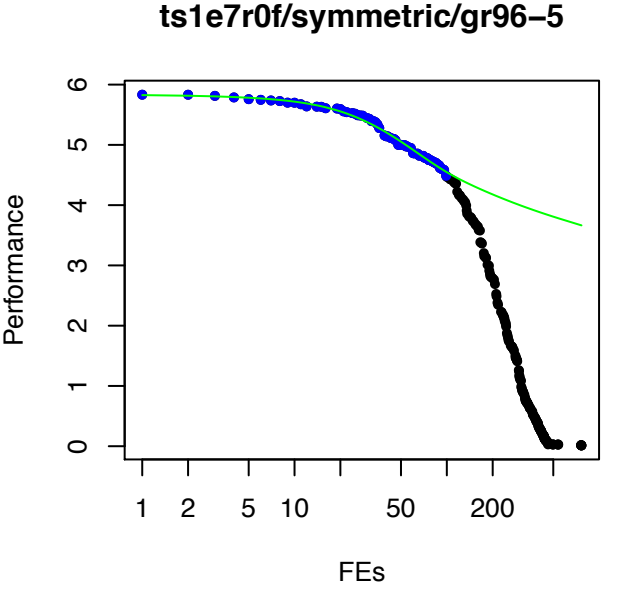
FEs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Performance
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2
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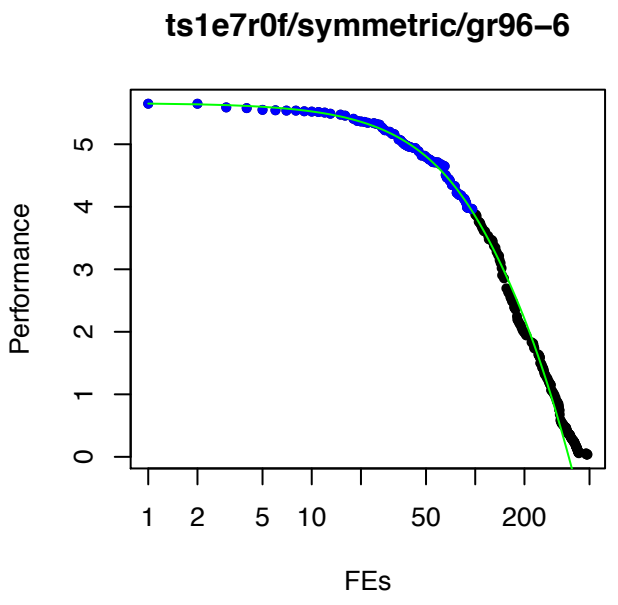
200
FEs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Performance
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2
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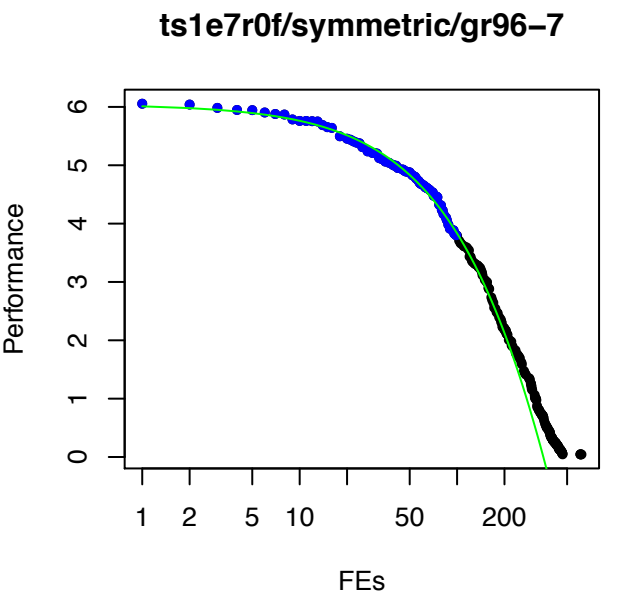
200
FEs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Performance
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4
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6
1
2
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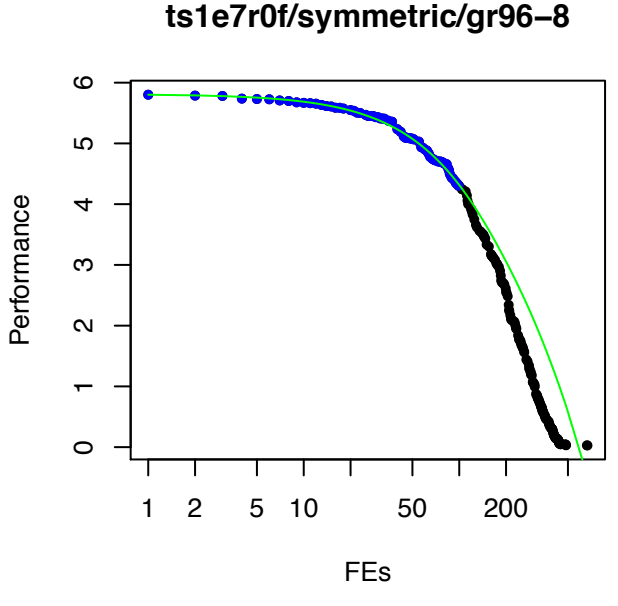
10
50
200
FEs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Performance
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4
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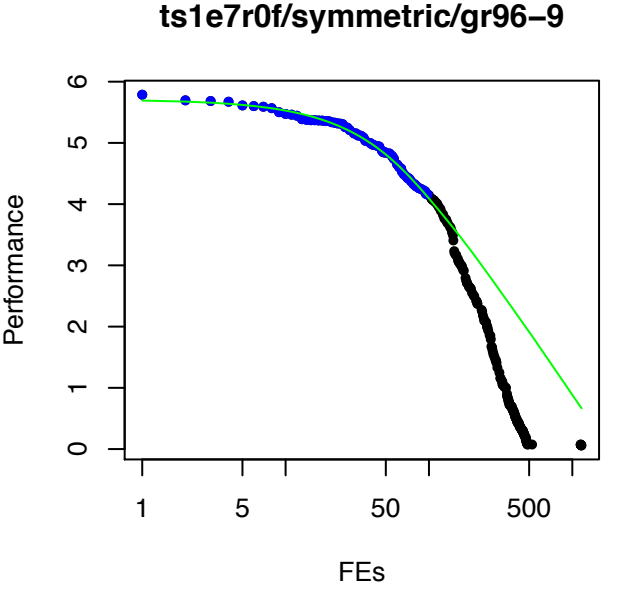
6
1
2
5
10
50
200
FEs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Performance
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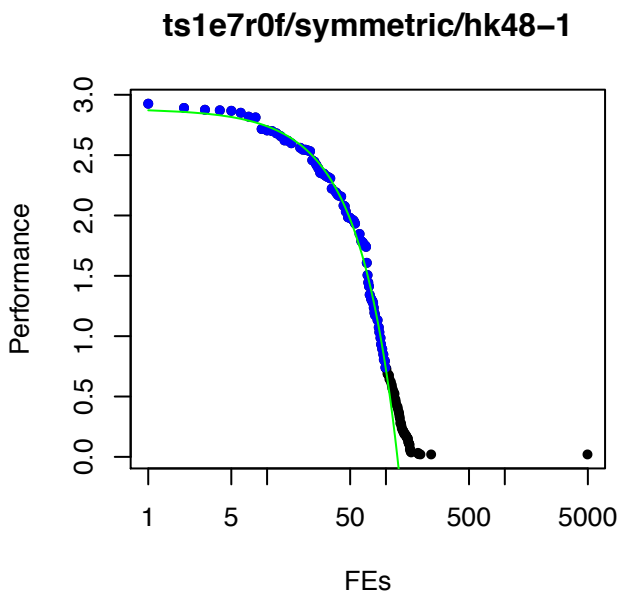
2
3
4
5
6
1
5
50
500
FEs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2.5
3.0
1
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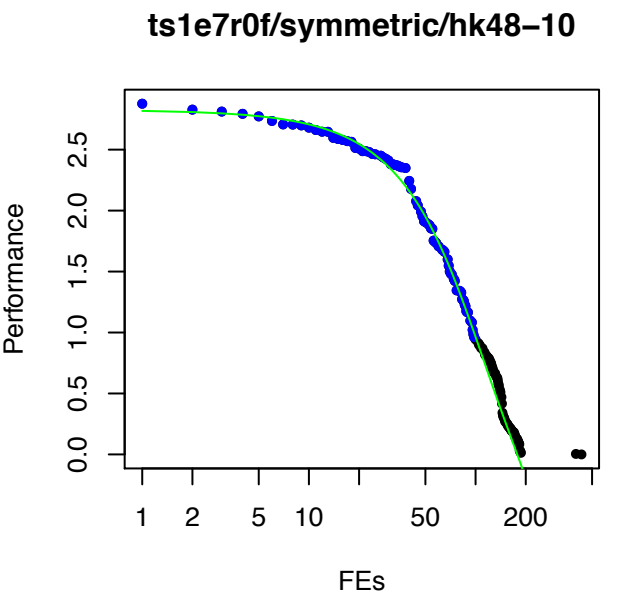
50
500
5000
FEs


ts1e7r0f/symmetric/hk48−10
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1
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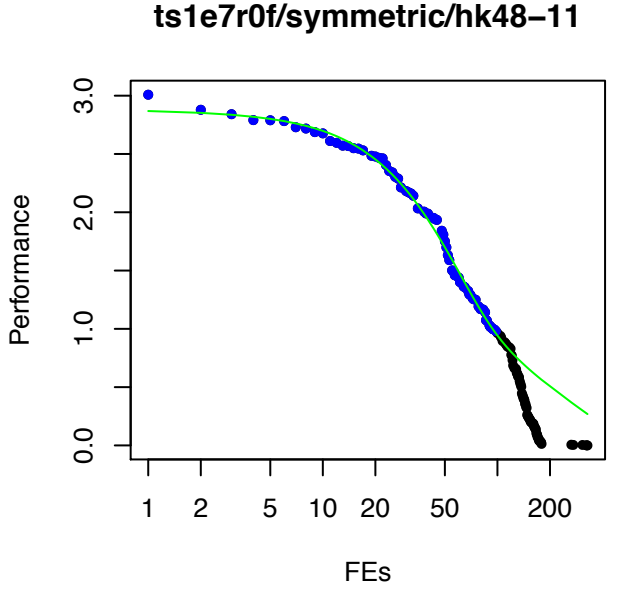
50
200
FEs


ts1e7r0f/symmetric/hk48−11
Performance
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1
2
5
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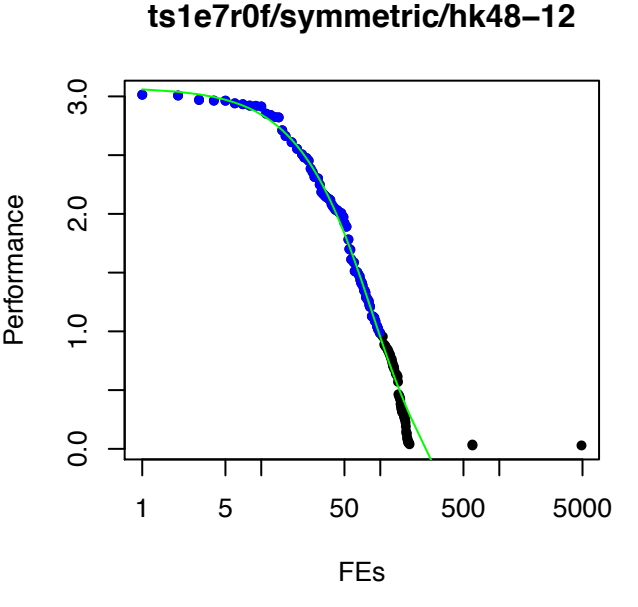
50
200
FEs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3.0
1
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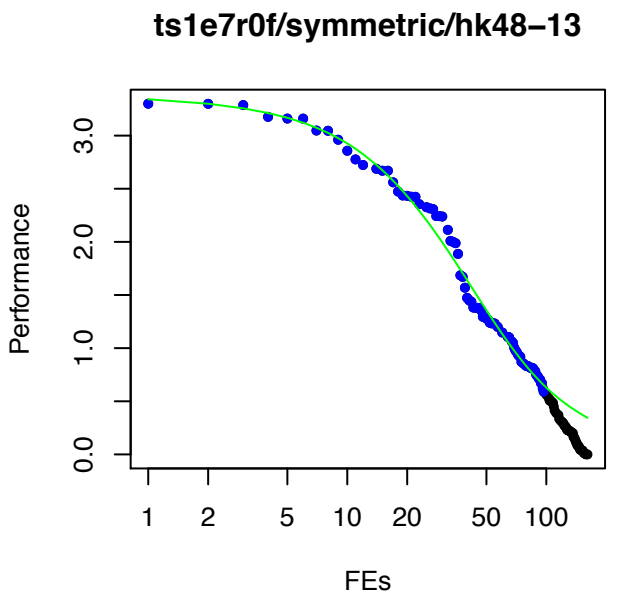
5000
FEs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Performance
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3.0
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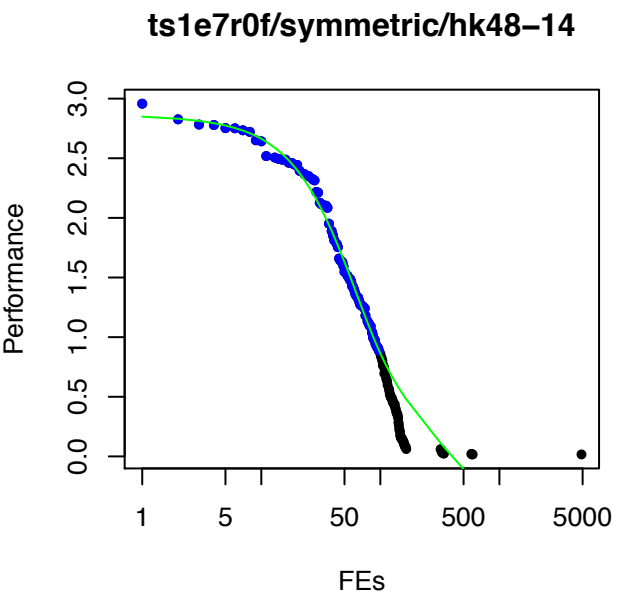
2
5
10
20
50
100
FEs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Performance
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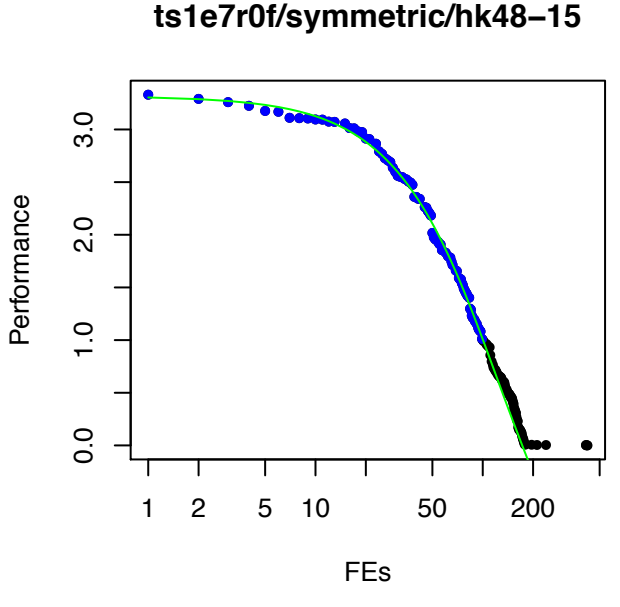
500
5000
FEs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Performance
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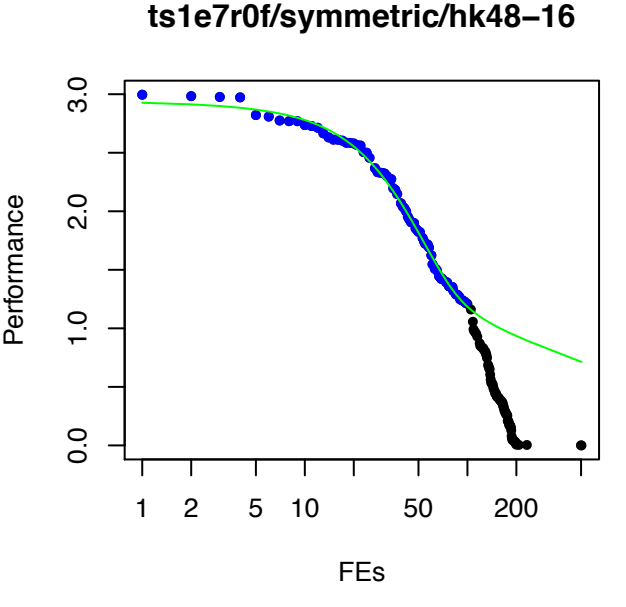
FEs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Performance
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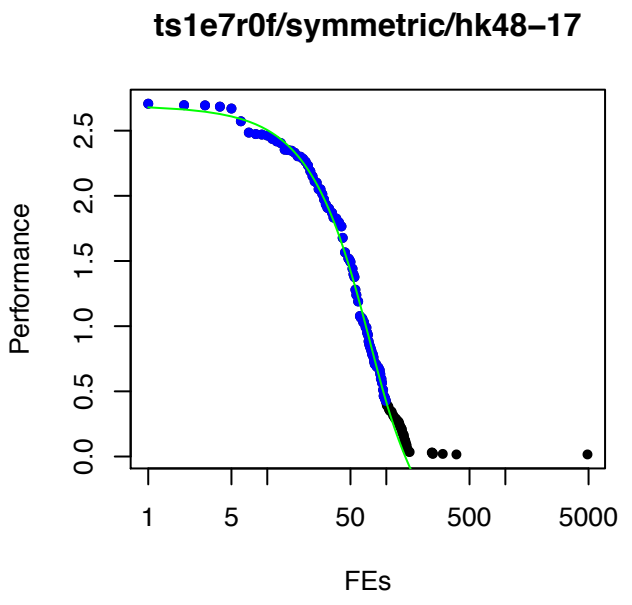
200
FEs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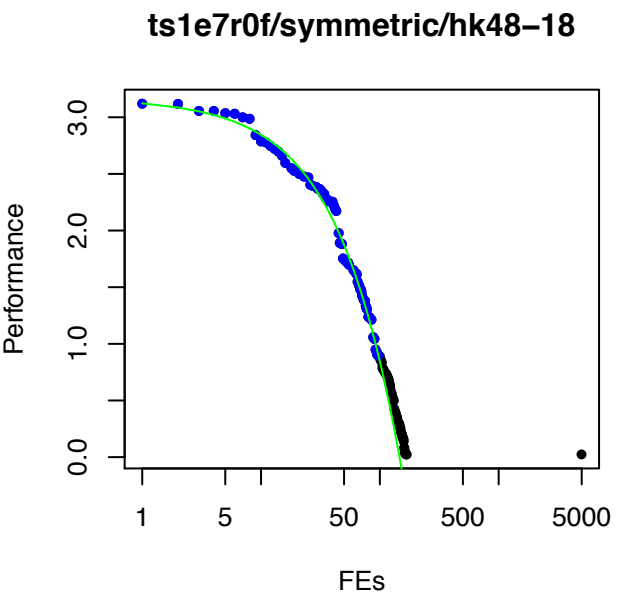
50
500
5000
FEs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Performance
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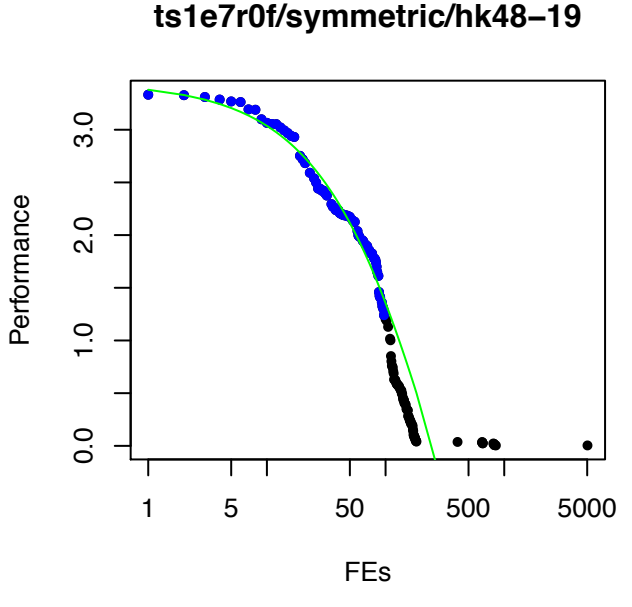
FEs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Performance
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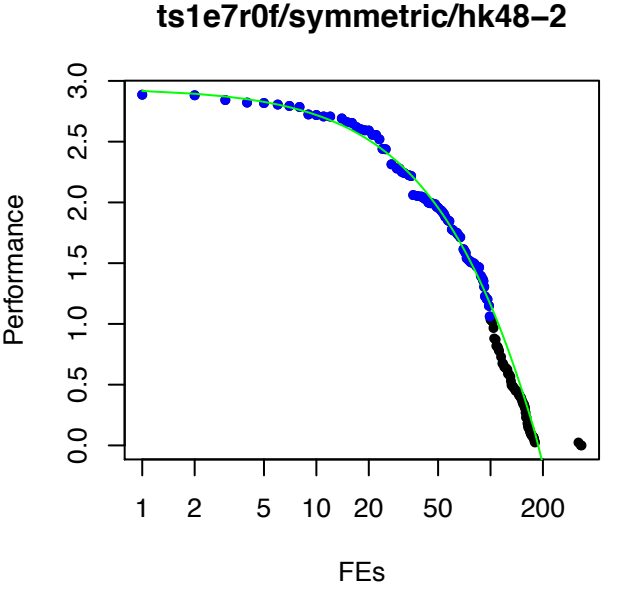
FEs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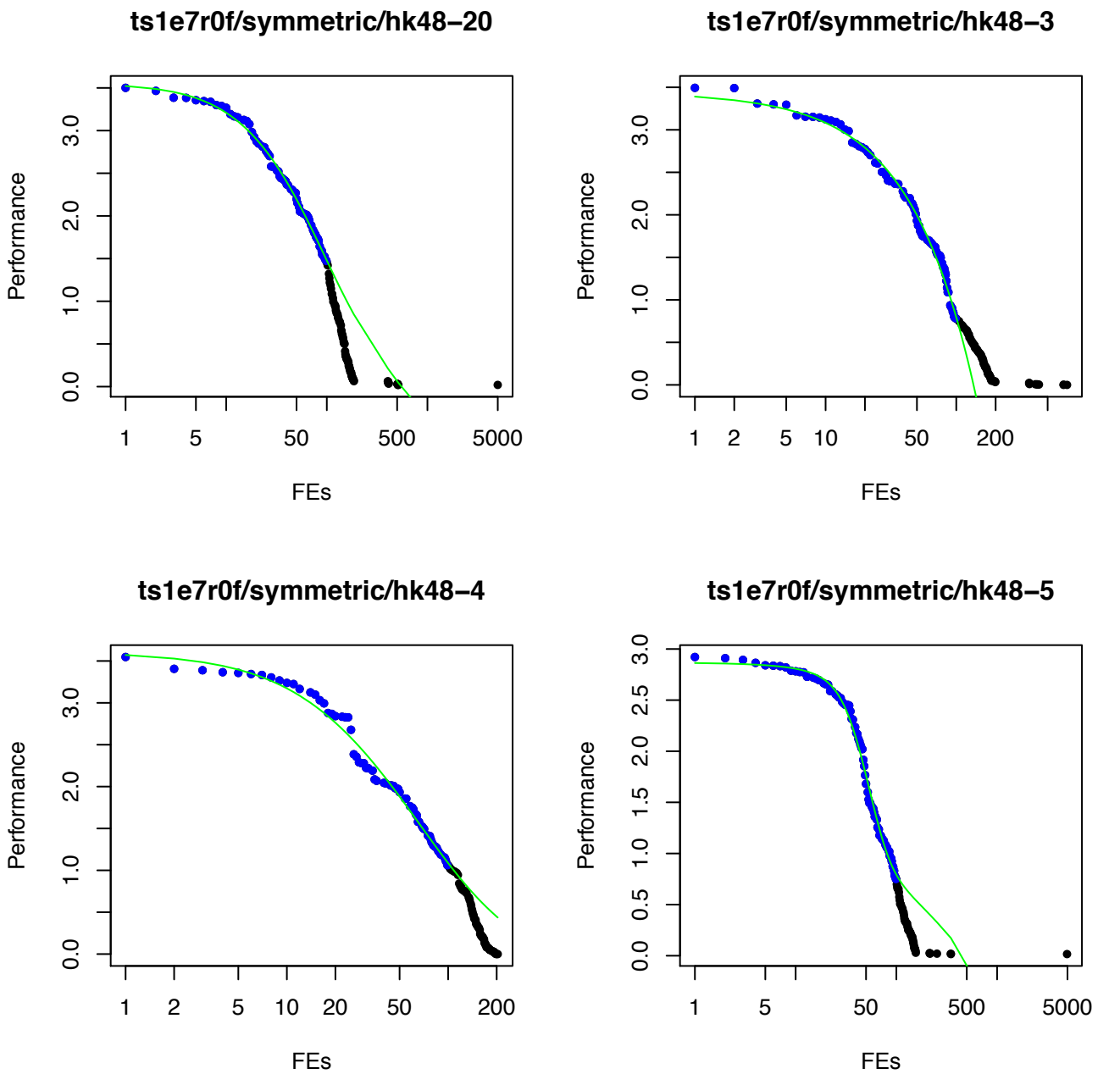
FEs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50
500
5000
FEs
ts1e7r0f/symmetric/hk48−3
Performance
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1.0
2.0
3.0
1
2
5
10
50
200
FEs
ts1e7r0f/symmetric/hk48−4
Performance
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1.0
2.0
3.0
1
2
5
10
20
50
200
FEs
ts1e7r0f/symmetric/hk48−5
Performance
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3.0
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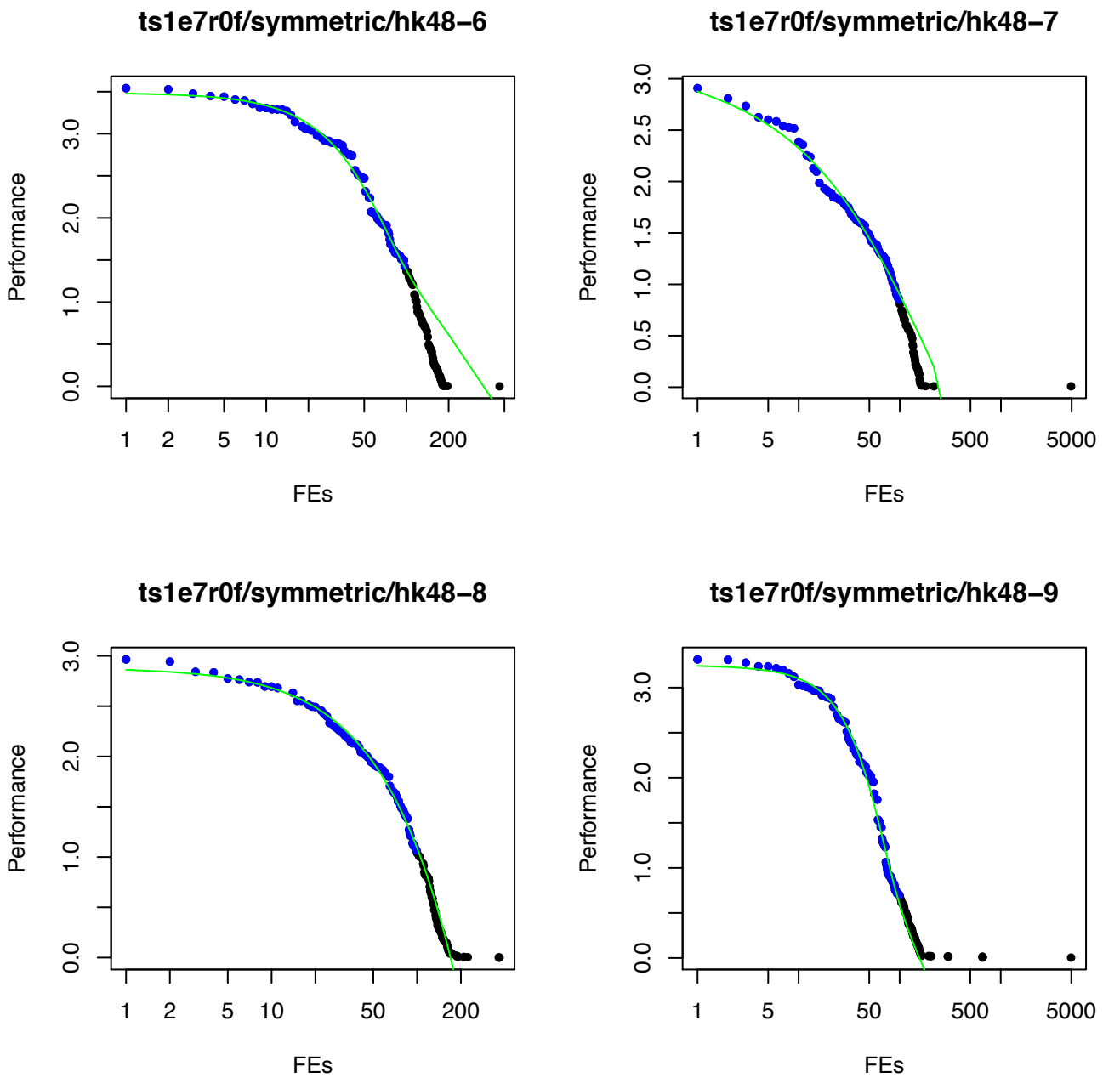
5000
FEs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Performance
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FEs
ts1e7r0f/symmetric/hk48−7
Performance
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2.0
2.5
3.0
1
5
50
500
5000
FEs
ts1e7r0f/symmetric/hk48−8
Performance
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2.0
3.0
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2
5
10
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200
FEs
ts1e7r0f/symmetric/hk48−9
Performance
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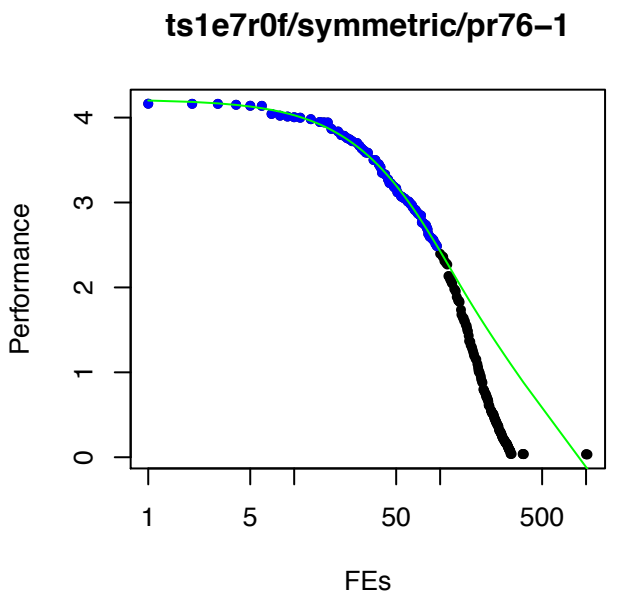
500
5000
FEs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Performance
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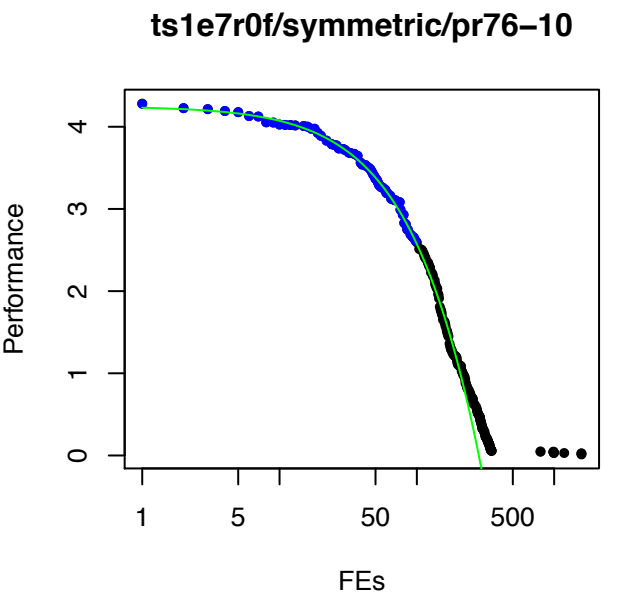
FEs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Performance
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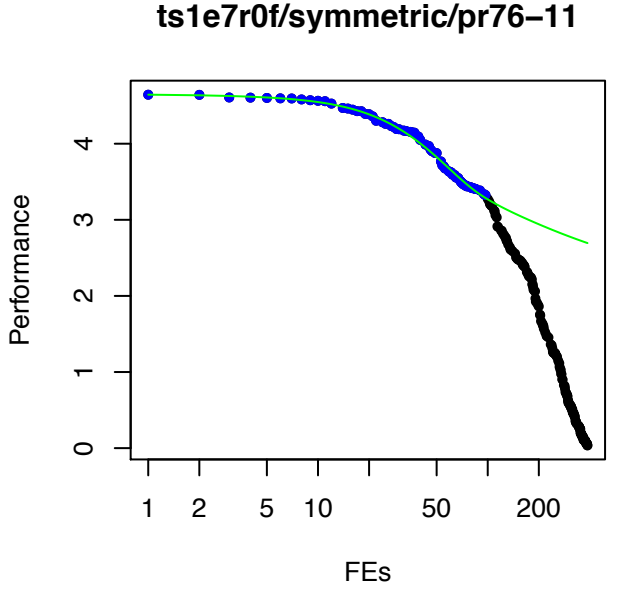
FEs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Performance
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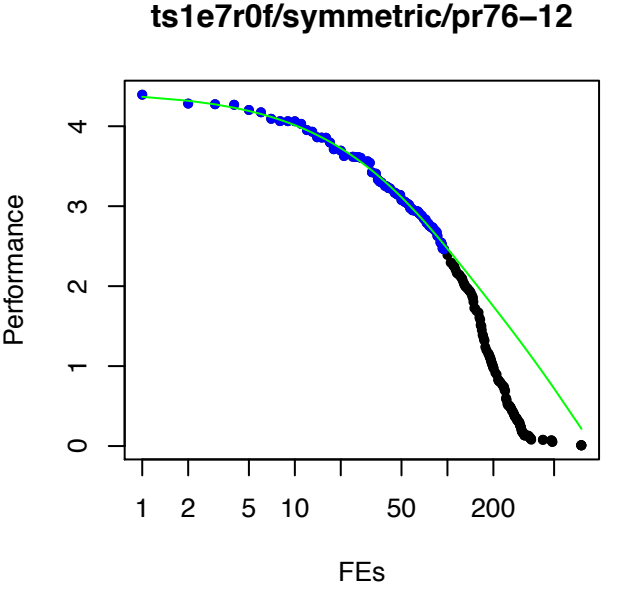
FEs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Performance
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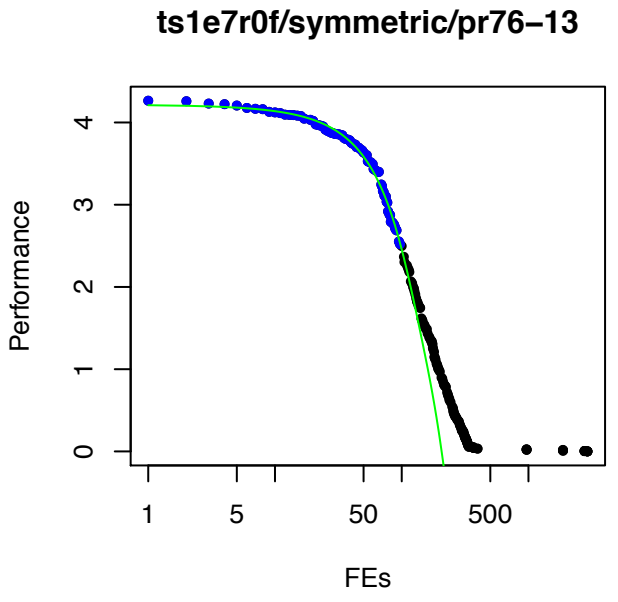
FEs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Performance
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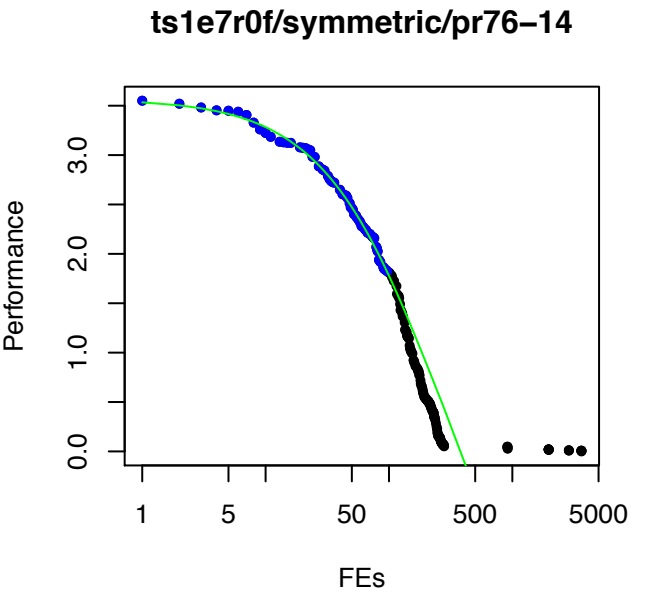
FEs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Performance
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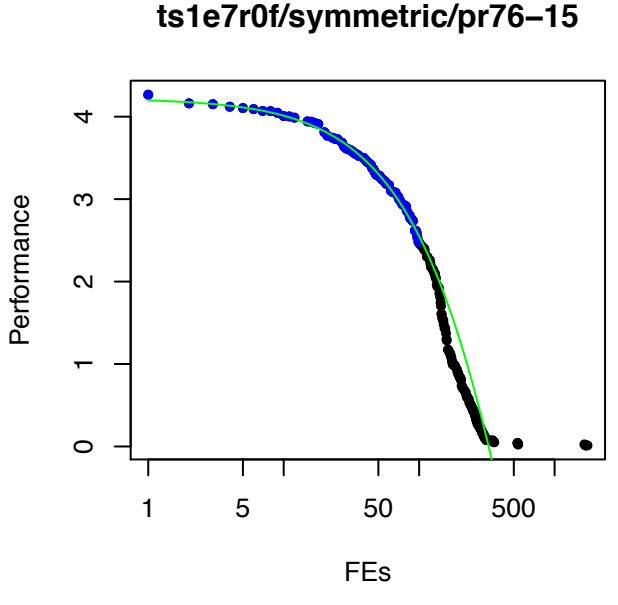
FEs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Performance
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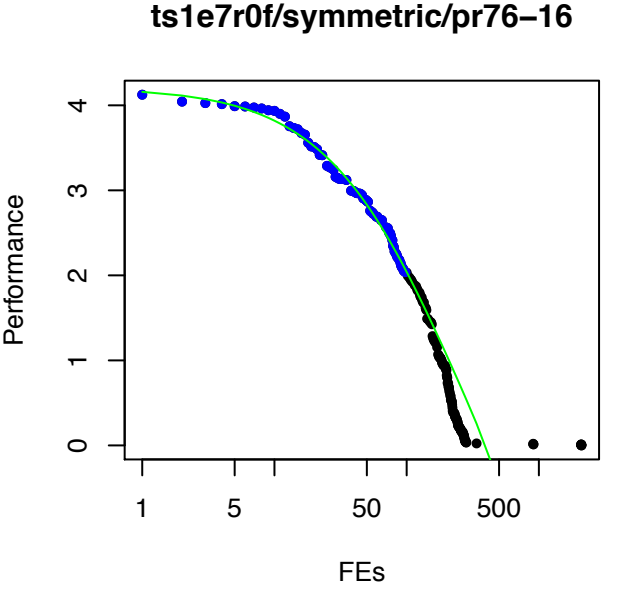
FEs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Performance
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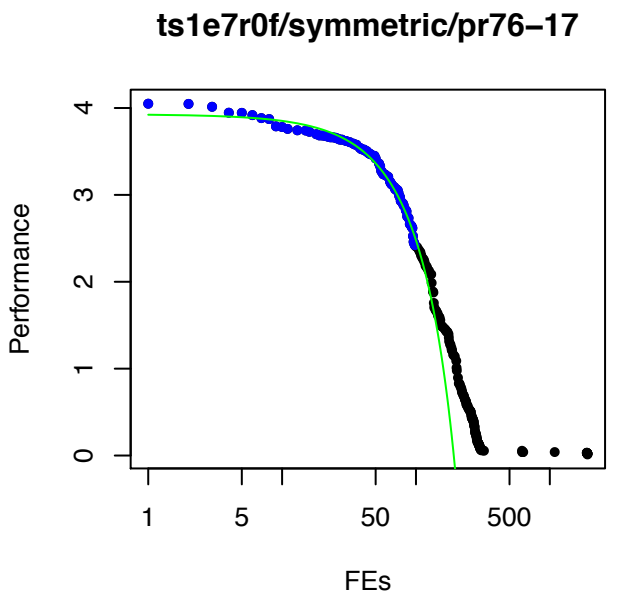
FEs


ts1e7r0f/symmetric/pr76−17
Performance
FEs
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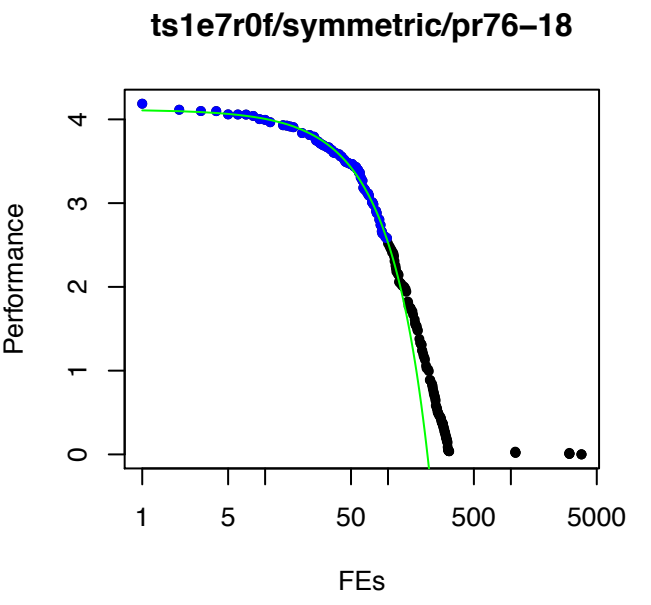
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Performance
FEs
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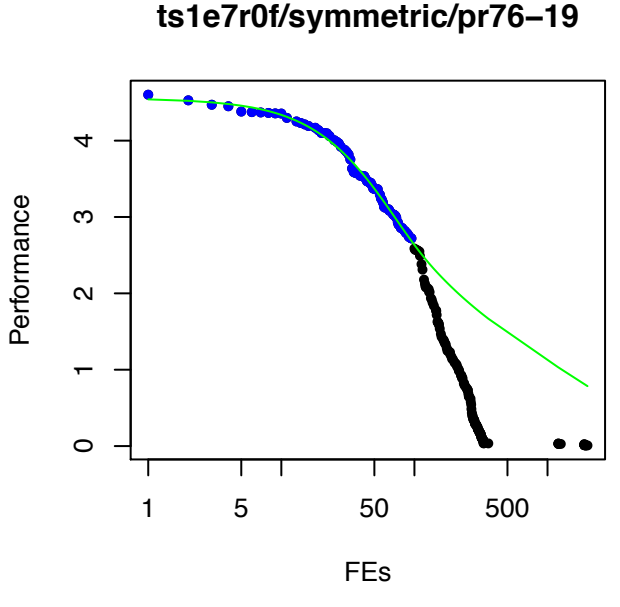
ts1e7r0f/symmetric/pr76−19
Performance
FEs
0
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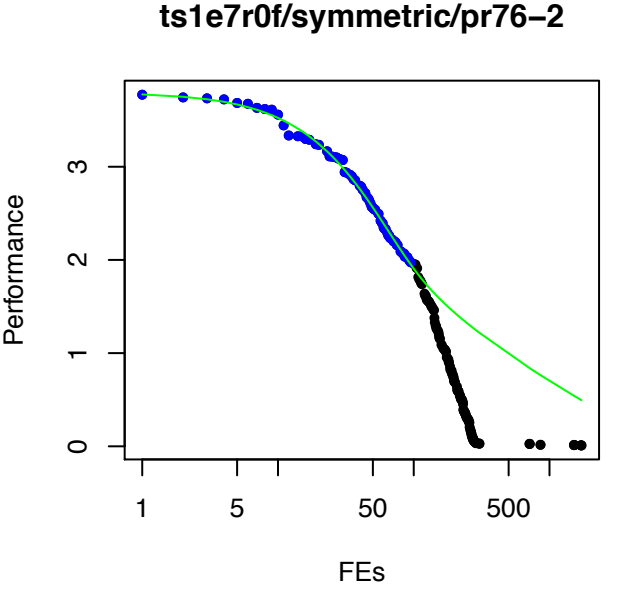
ts1e7r0f/symmetric/pr76−2
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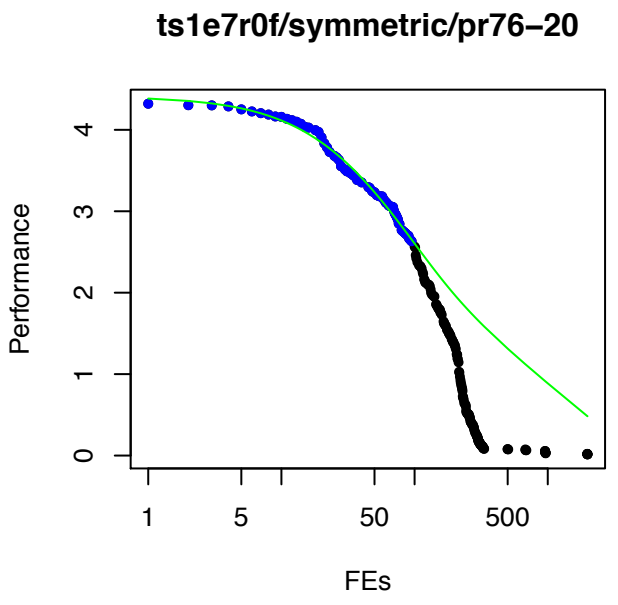
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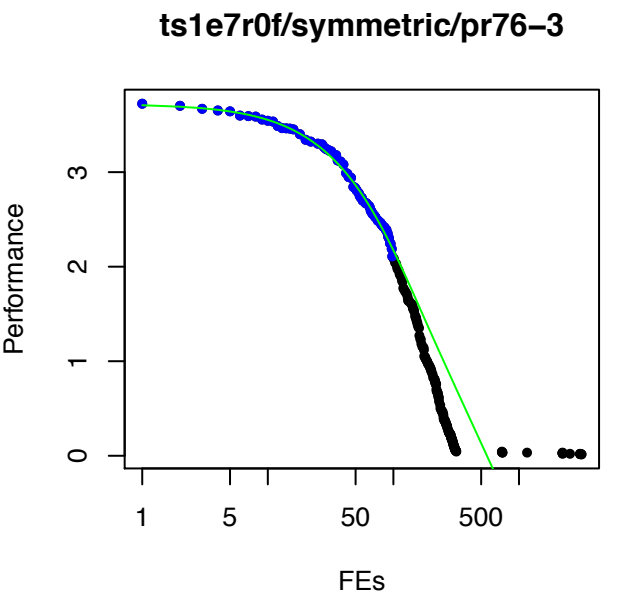
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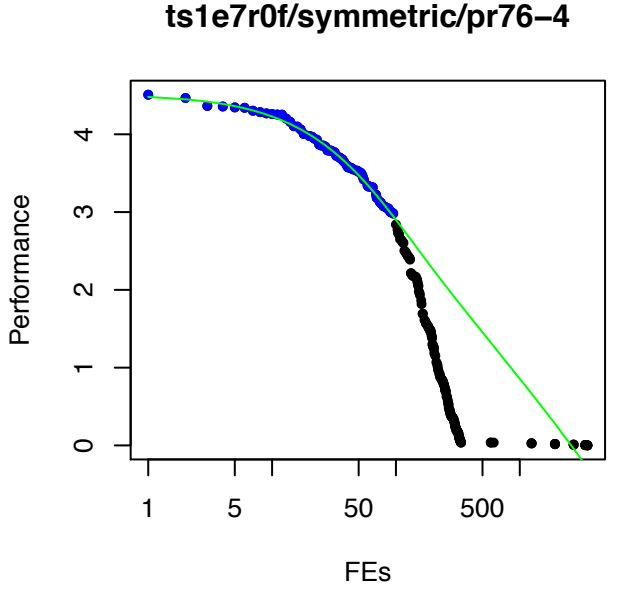
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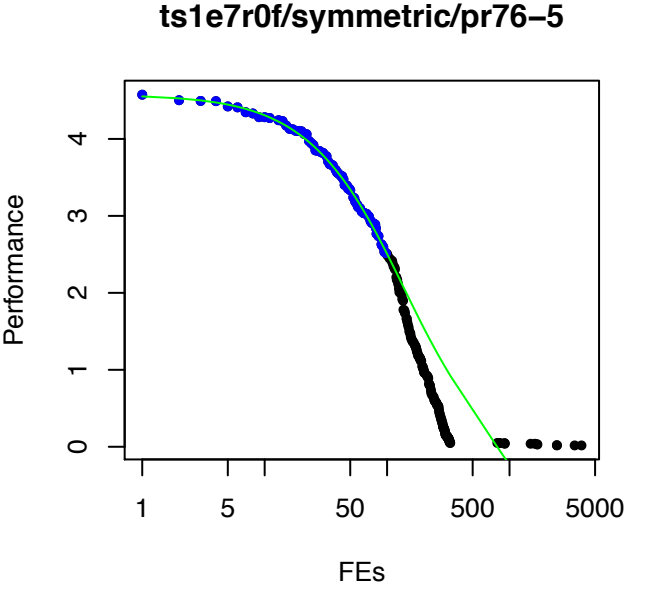
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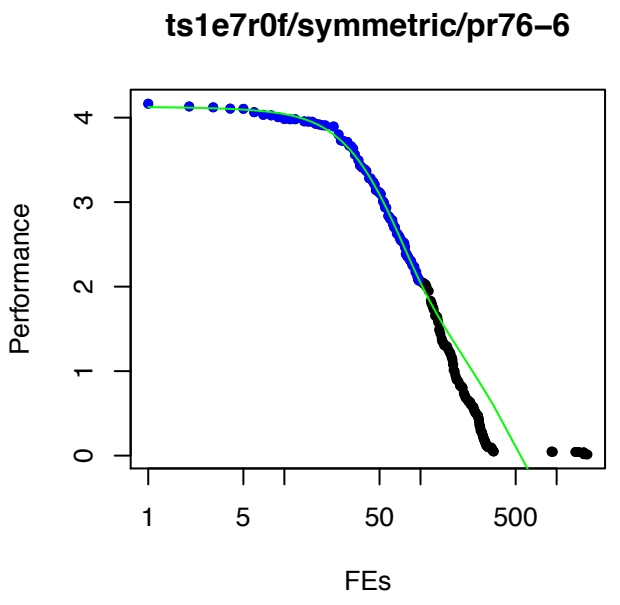
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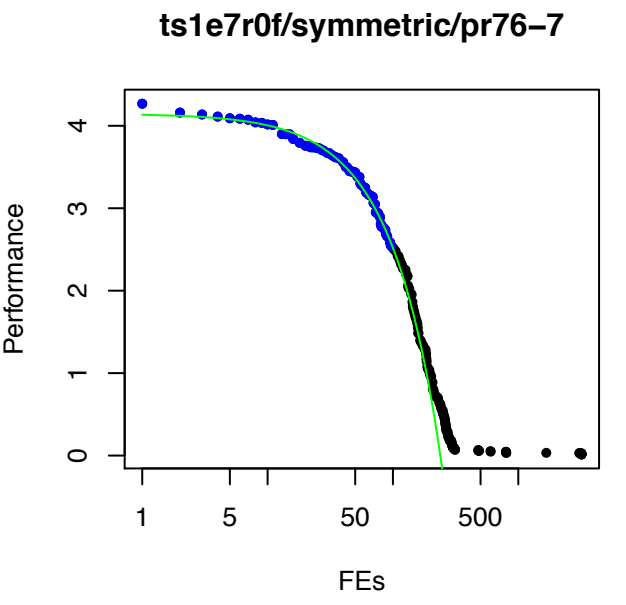
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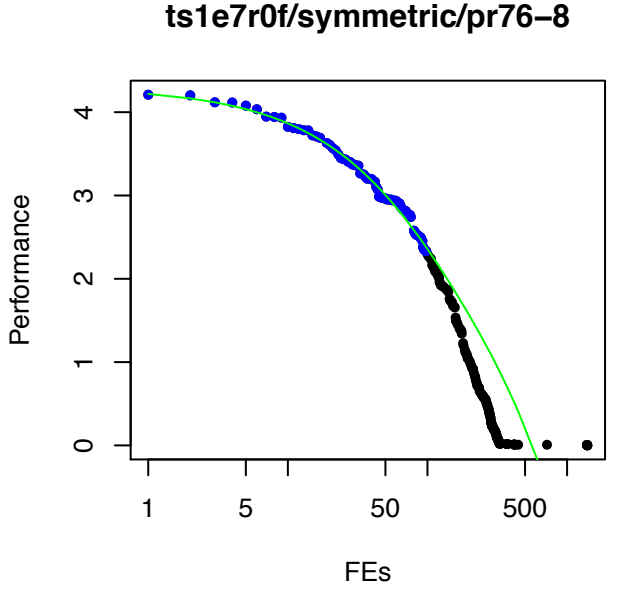
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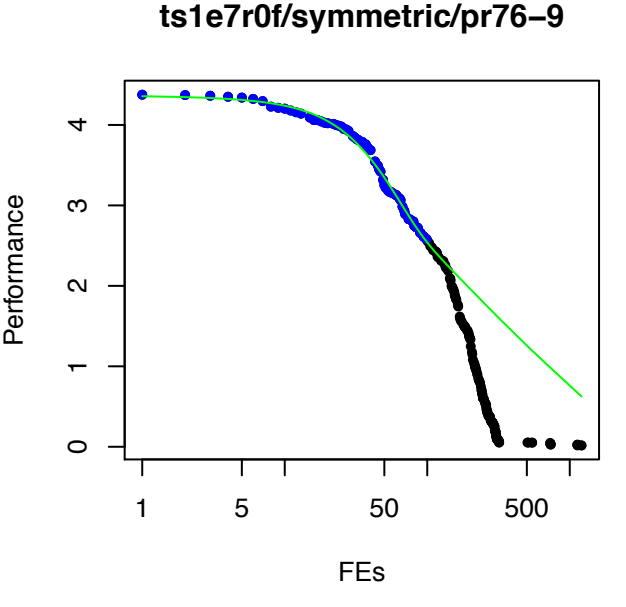
FEs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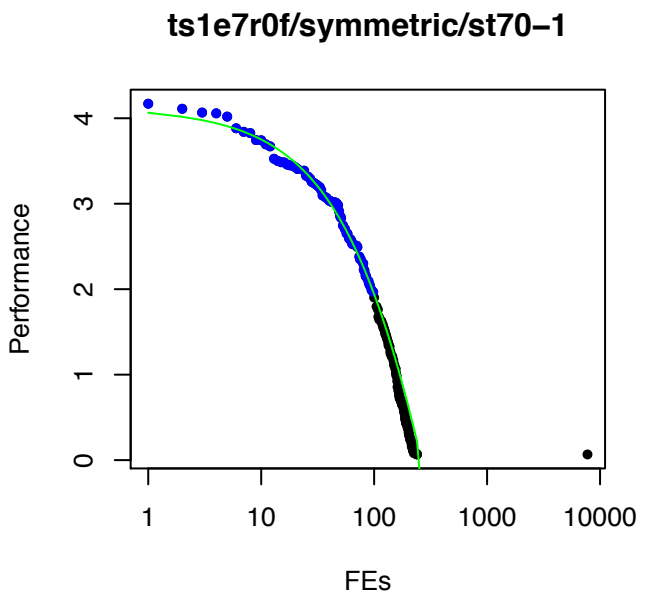
FEs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Performance
FEs
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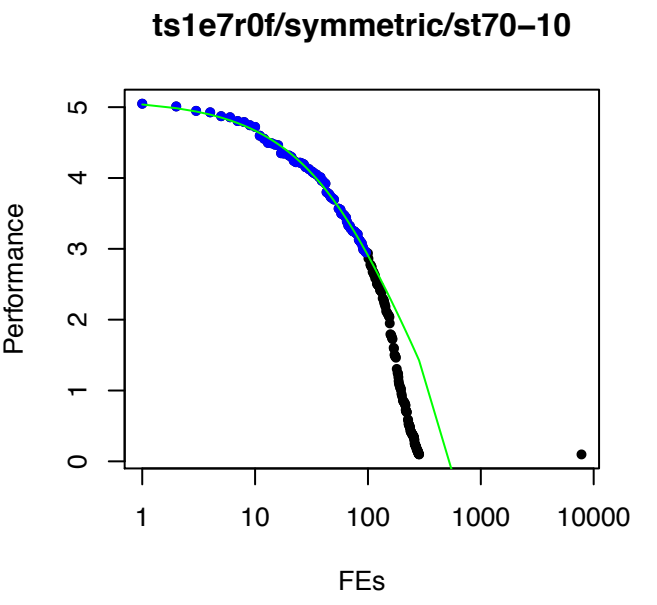
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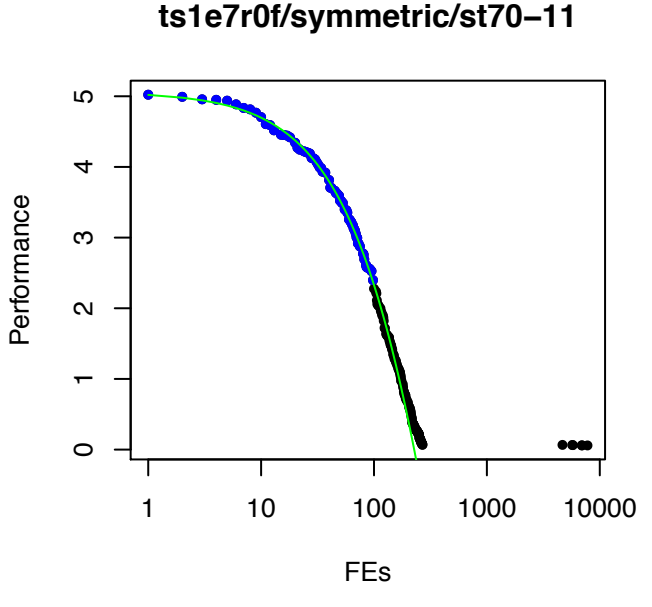
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Performance
FEs
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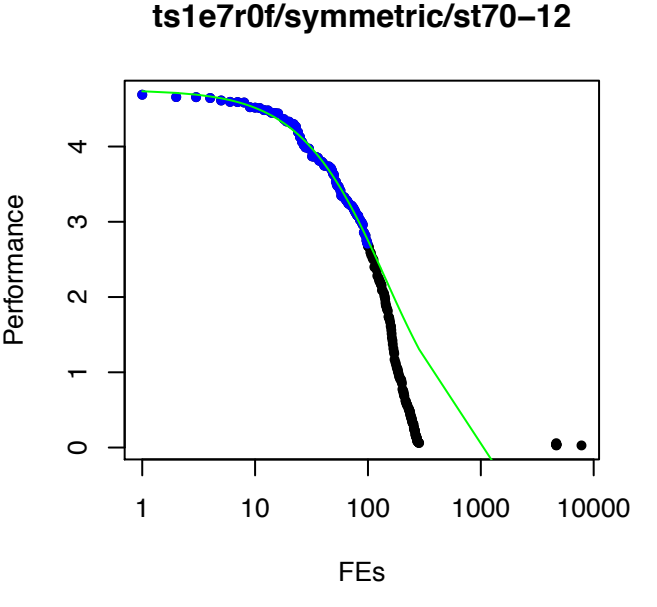
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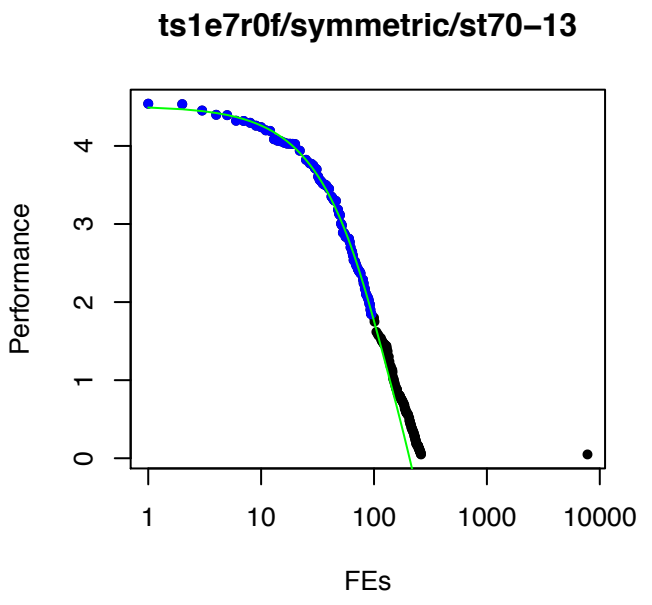
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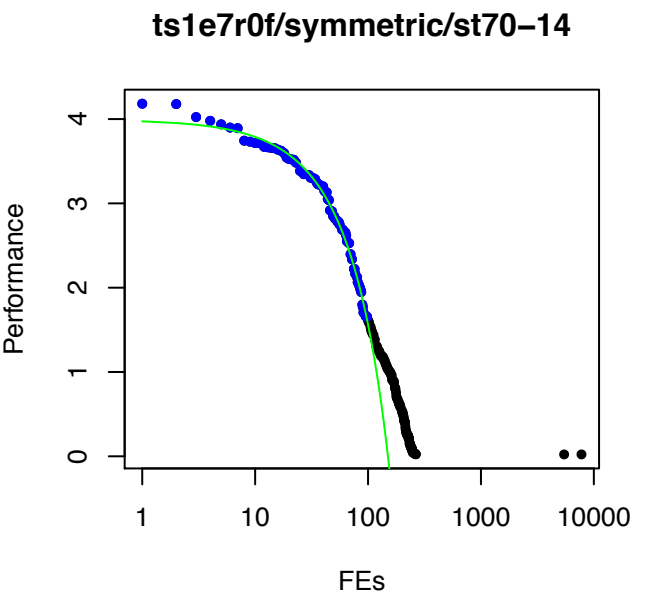
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Performance
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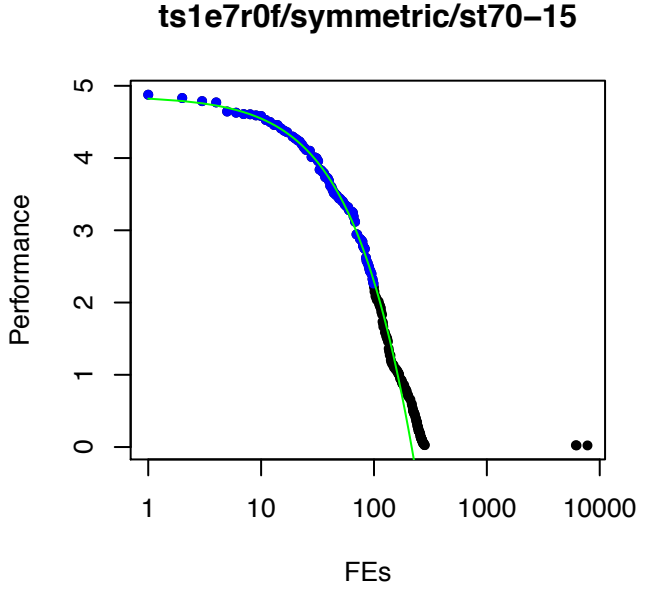
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Performance
FEs
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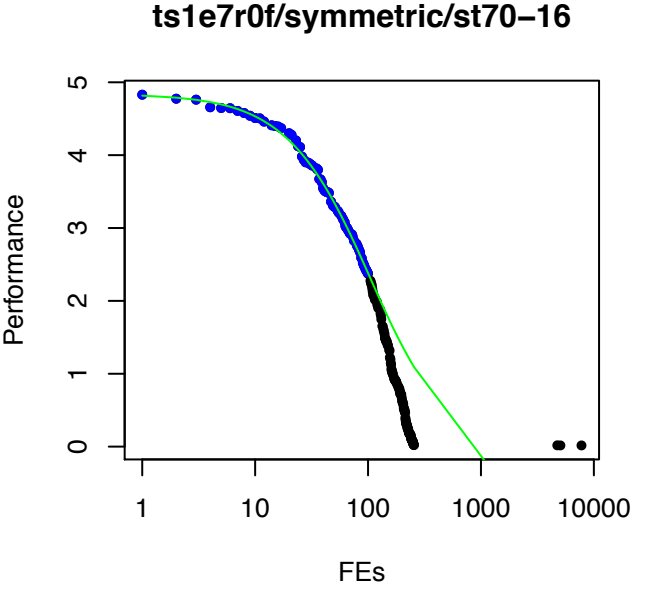
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Performance
FEs
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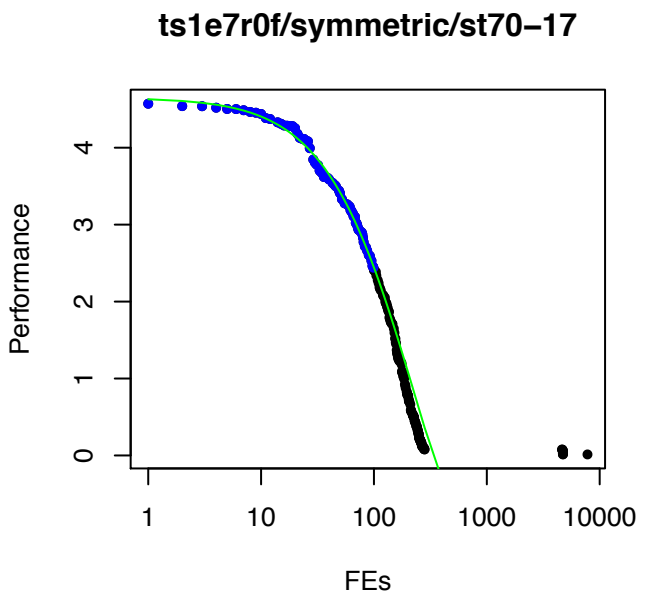
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Performance
FEs
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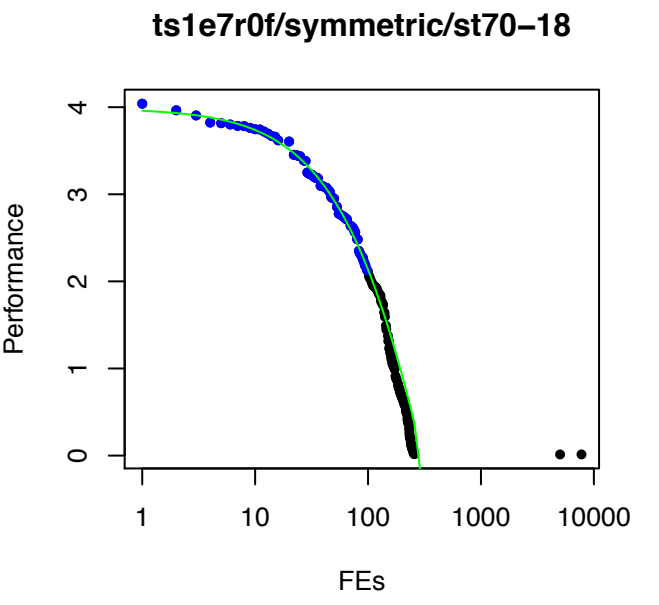
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FEs
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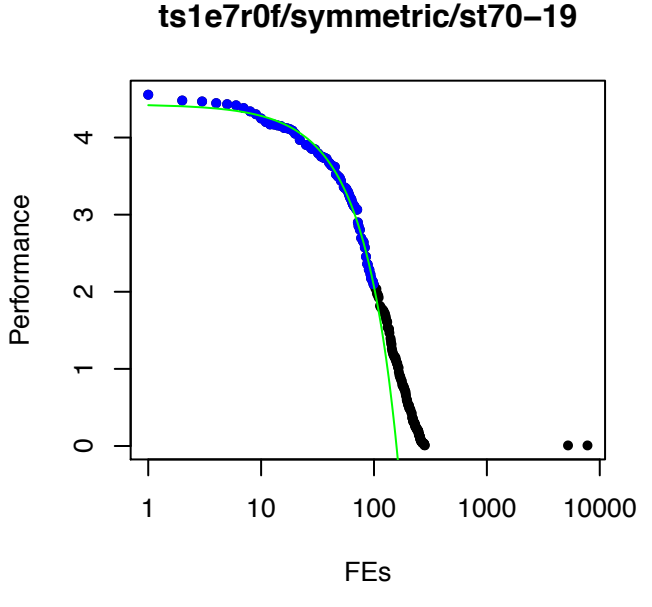
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Performance
FEs
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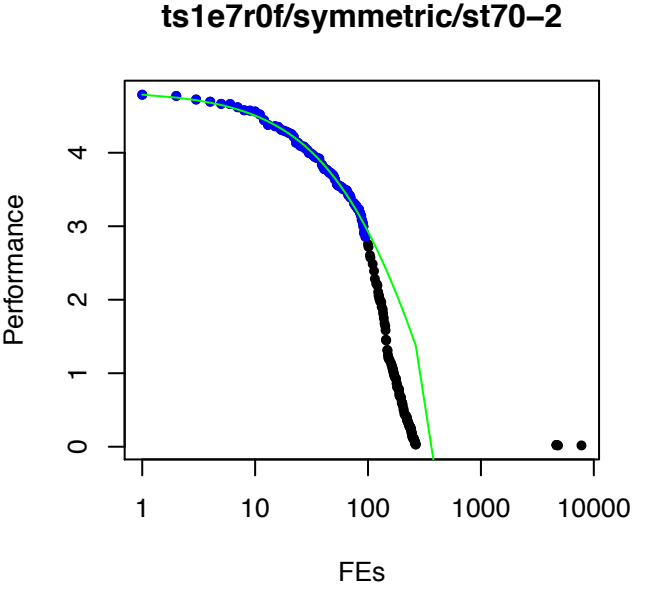
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Performance
FEs
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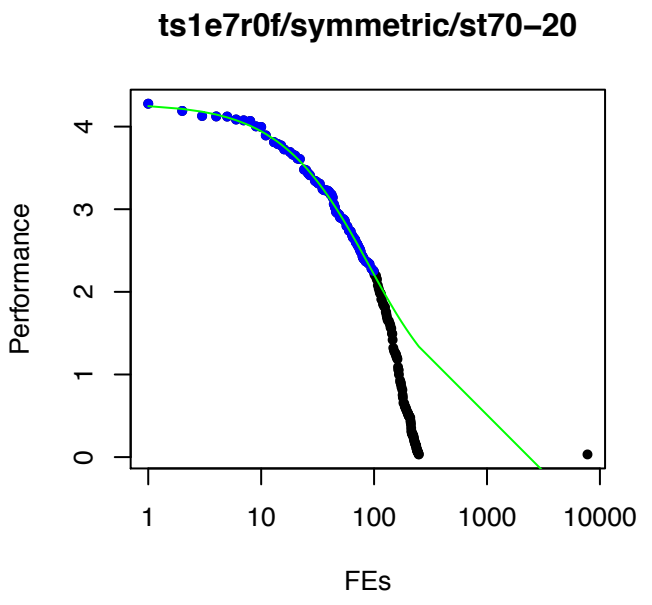
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Performance
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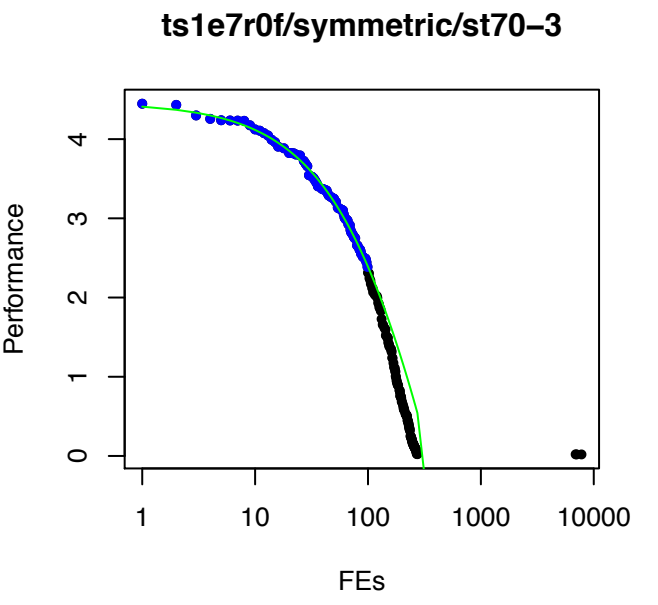
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Performance
FEs
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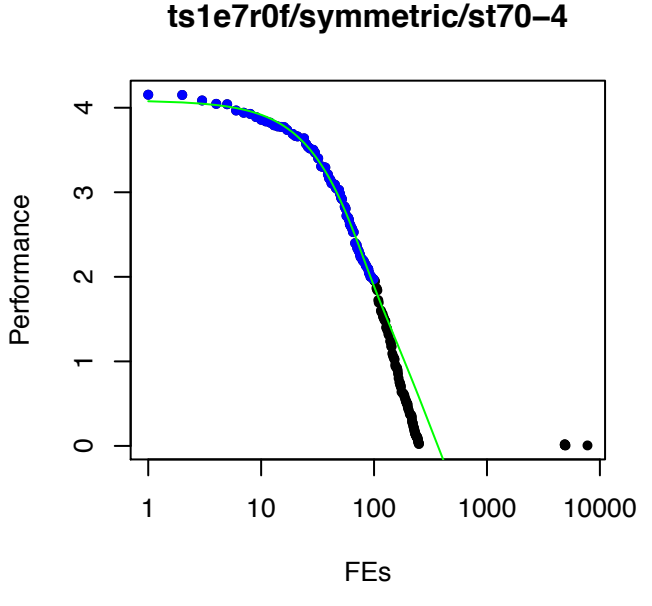
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Performance
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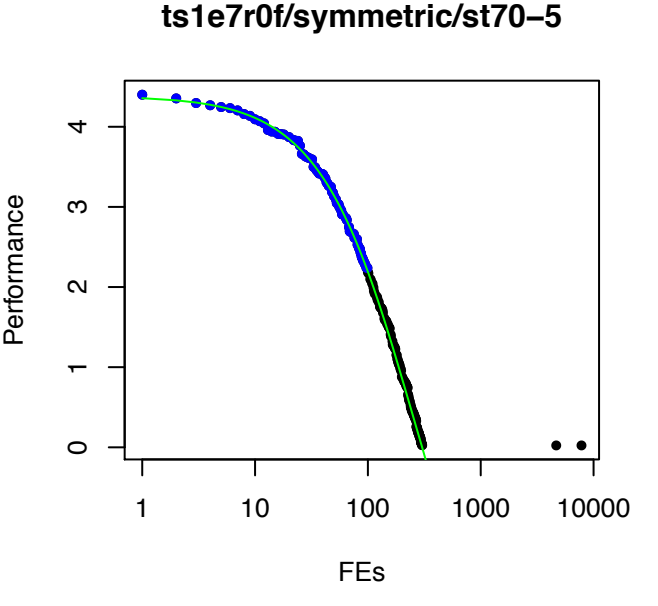
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Performance
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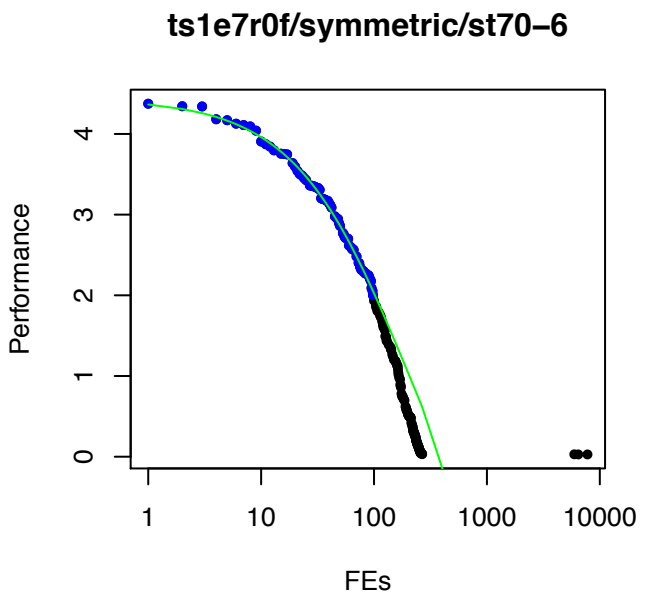
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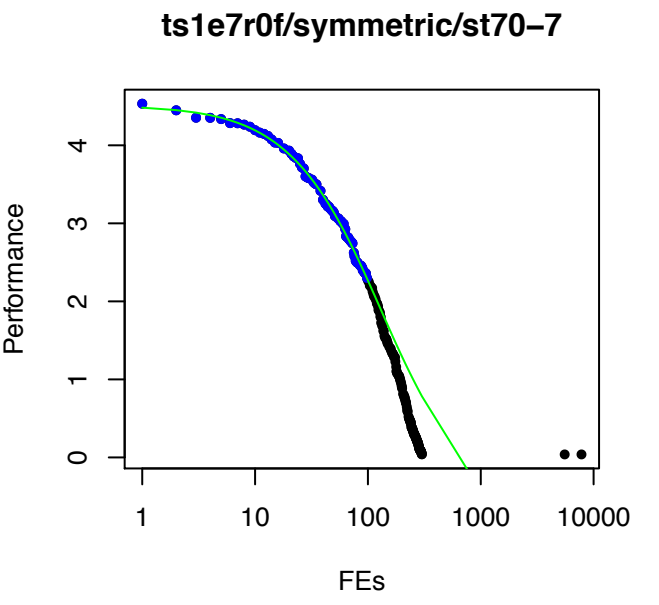
FEs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Performance
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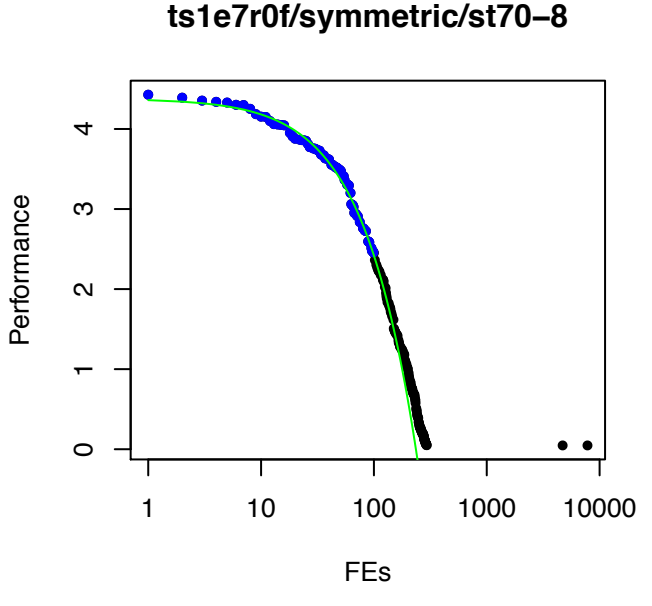
FEs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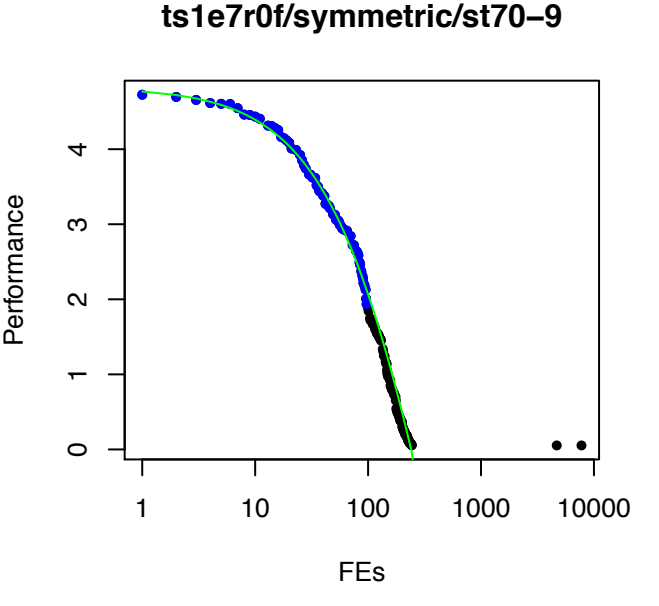
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Performance
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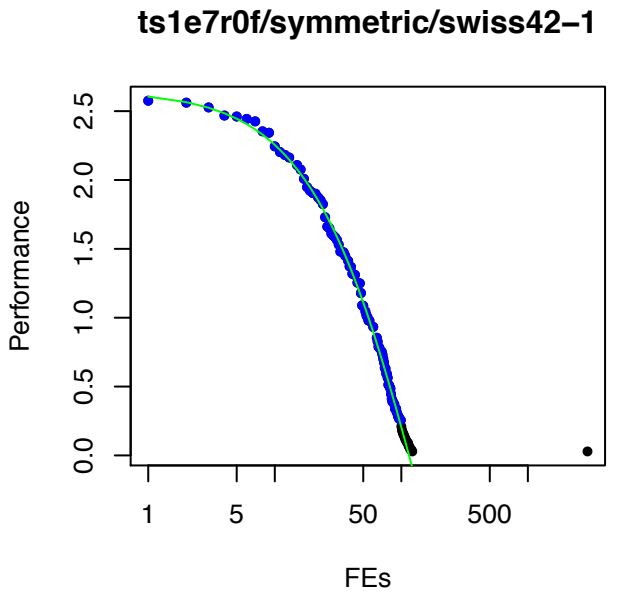
FEs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2.5
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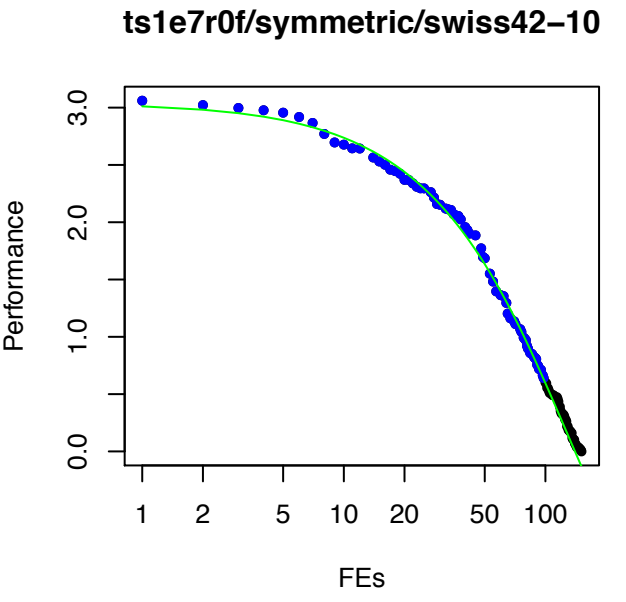
FEs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Performance
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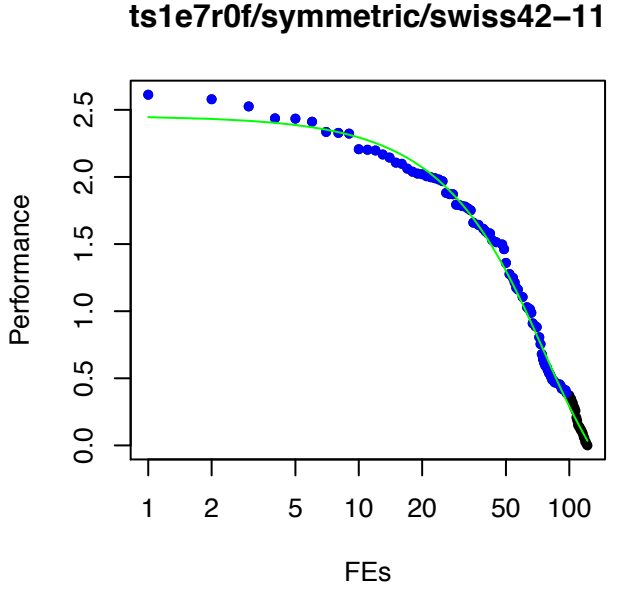
FEs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Performance
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2
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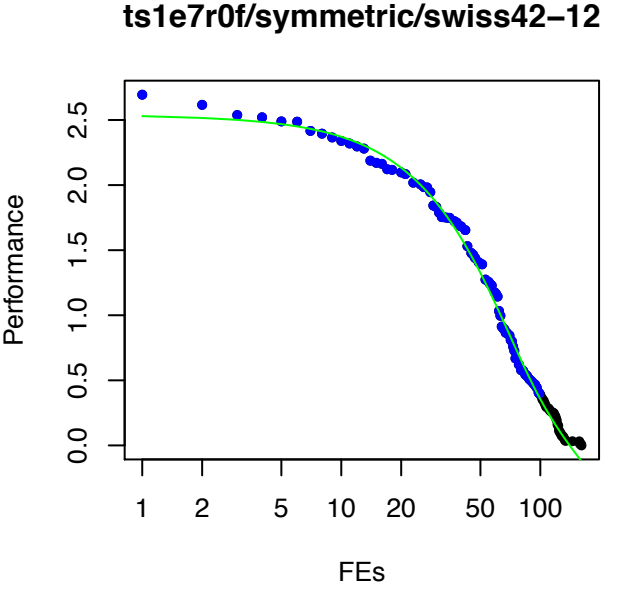
100
FEs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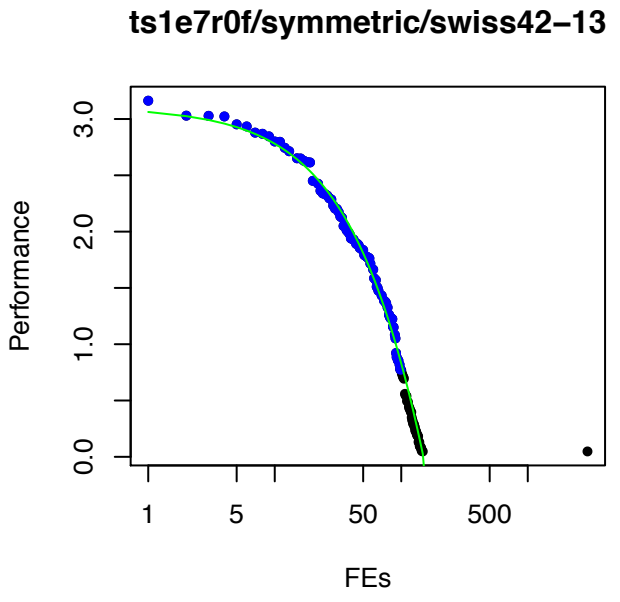
FEs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Performance
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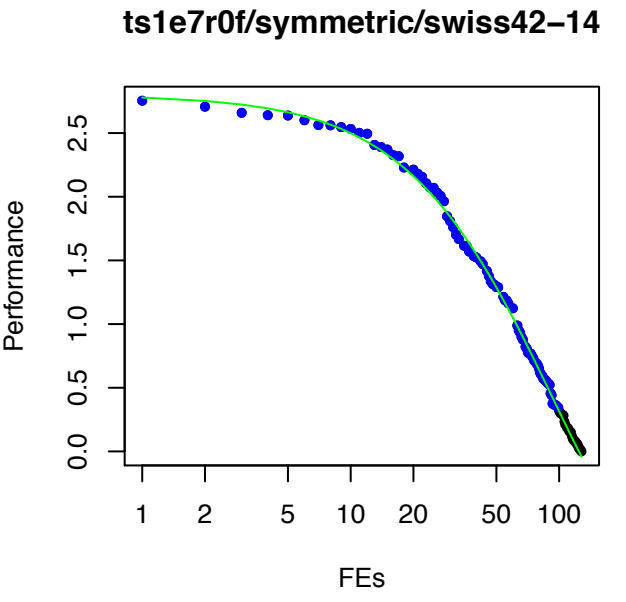
FEs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Performance
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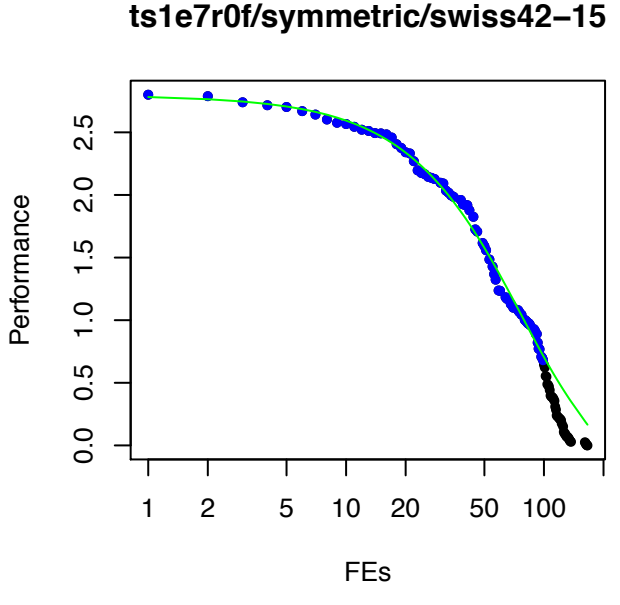
FEs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Performance
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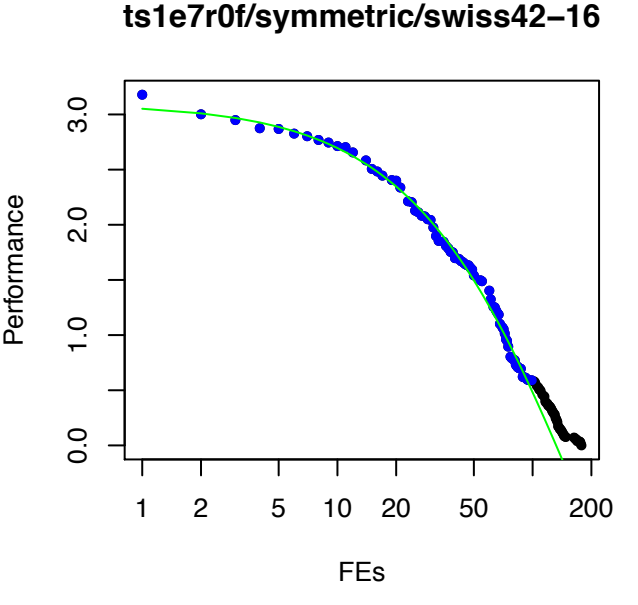
FEs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Performance
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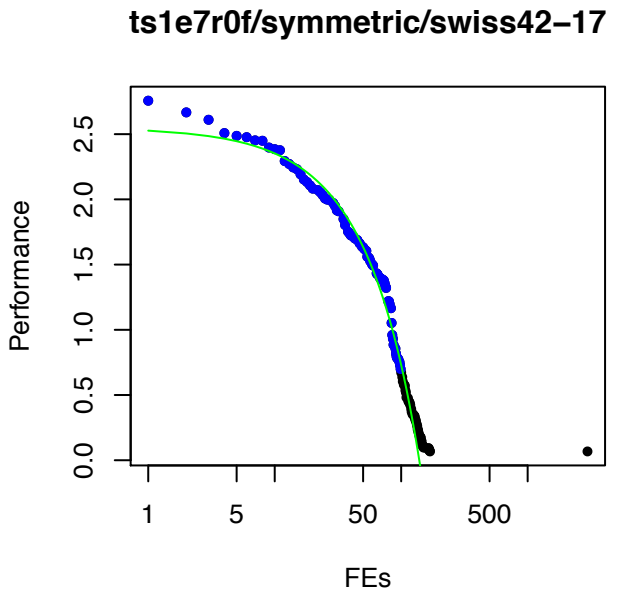
FEs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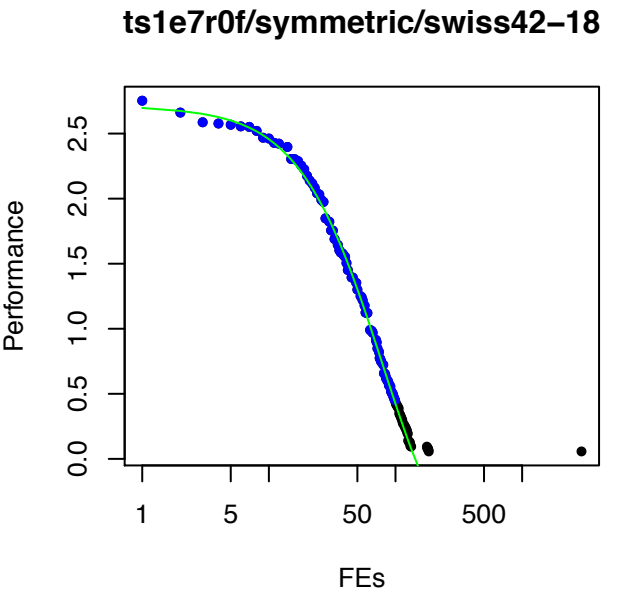
FEs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Performance
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5
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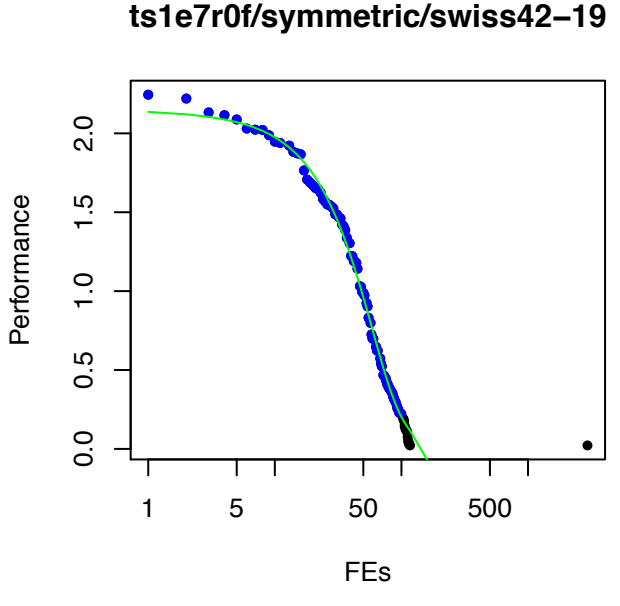
500
FEs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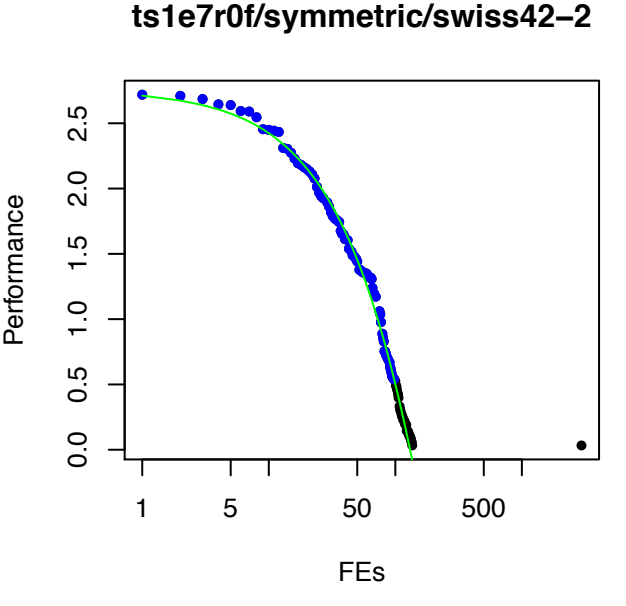
FEs


ts1e7r0f/symmetric/swiss42−2
Performance
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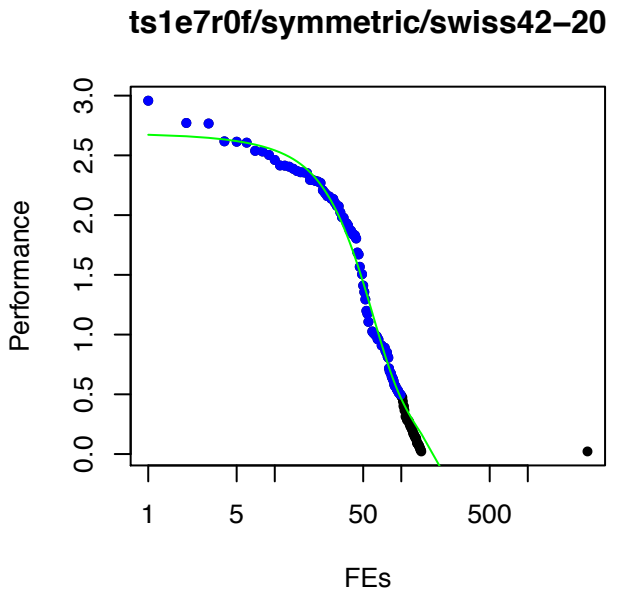
1.5
2.0
2.5
1
5
50
500
FEs


ts1e7r0f/symmetric/swiss42−20
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1.5
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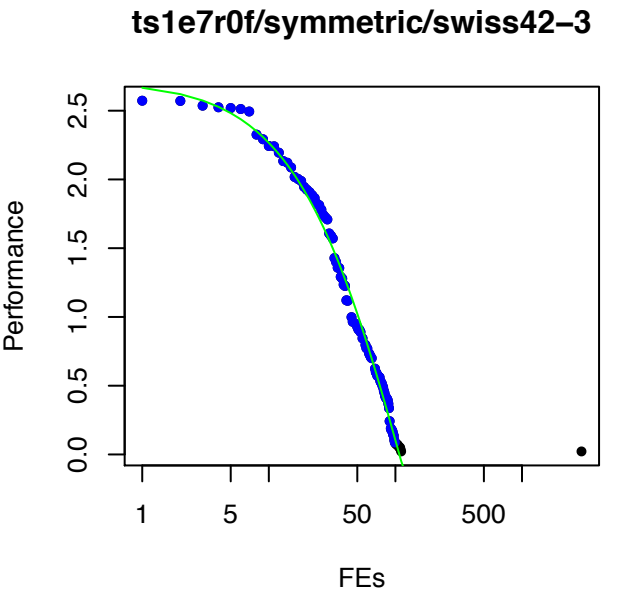
500
FEs


ts1e7r0f/symmetric/swiss42−3
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1.5
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2.5
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5
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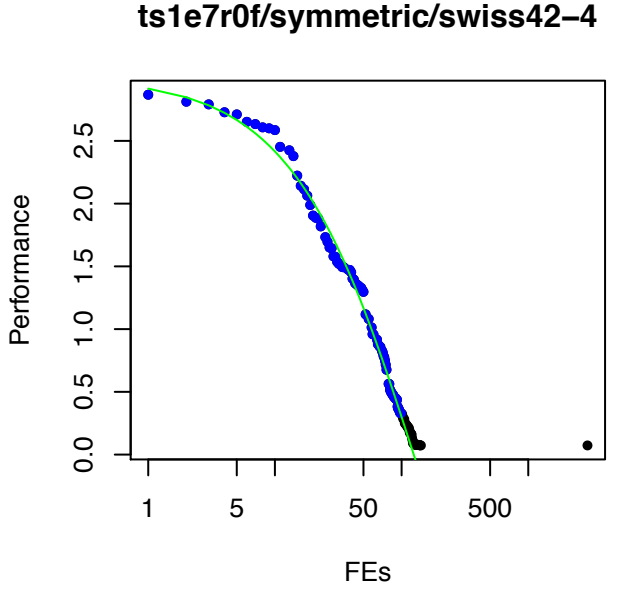
FEs


ts1e7r0f/symmetric/swiss42−4
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1
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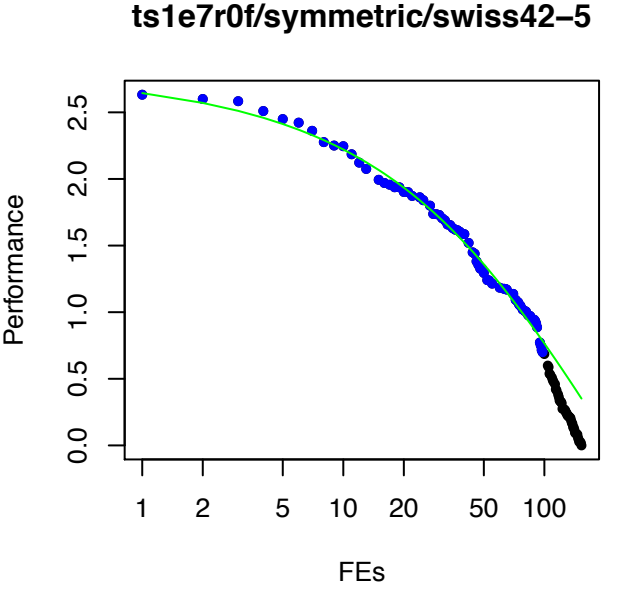
FEs


ts1e7r0f/symmetric/swiss42−5
Performance
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1.0
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1
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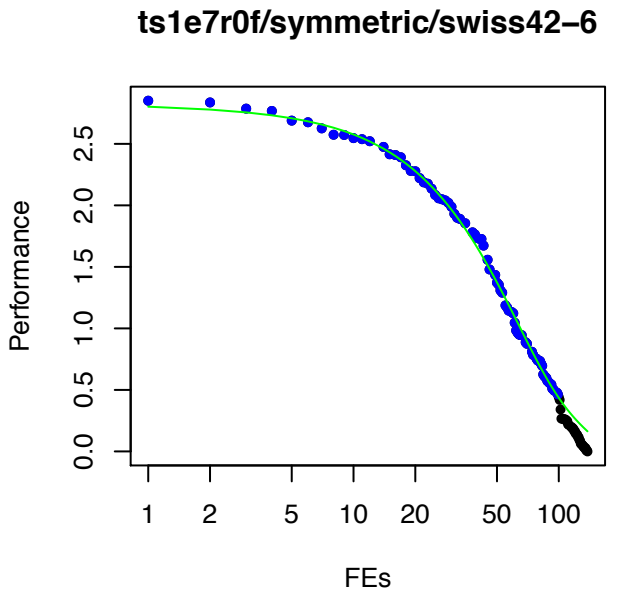
100
FEs


ts1e7r0f/symmetric/swiss42−6
Performance
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1.5
2.0
2.5
1
2
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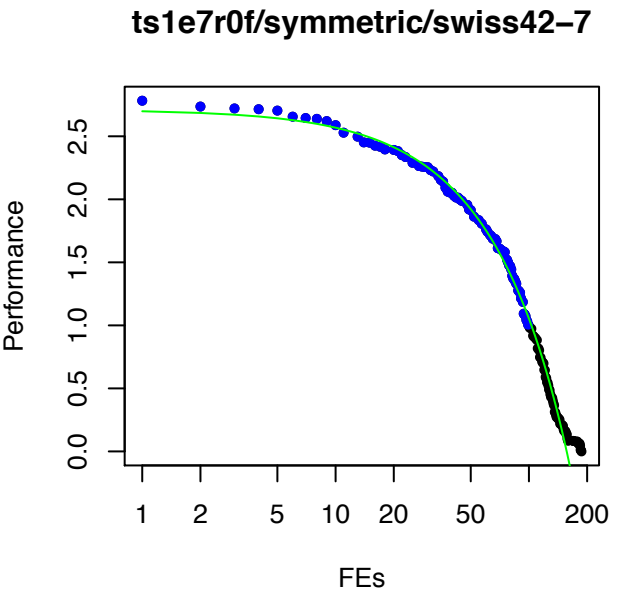
20
50
100
FEs


ts1e7r0f/symmetric/swiss42−7
Performance
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1
2
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20
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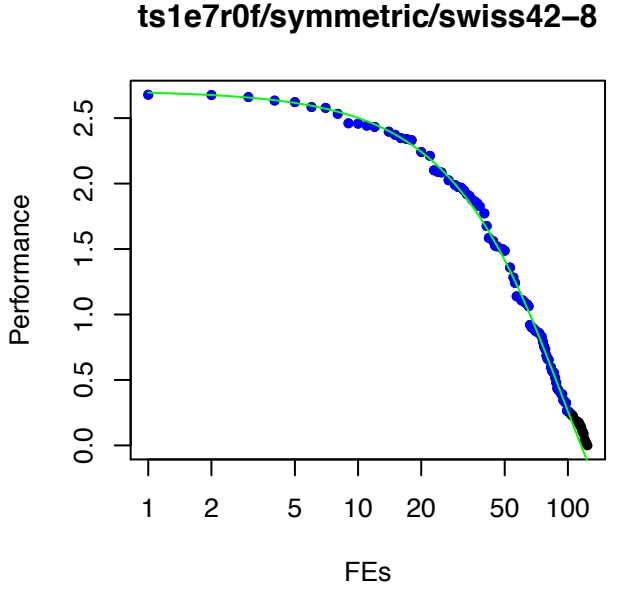
200
FEs


ts1e7r0f/symmetric/swiss42−8
Performance
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1.5
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1
2
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20
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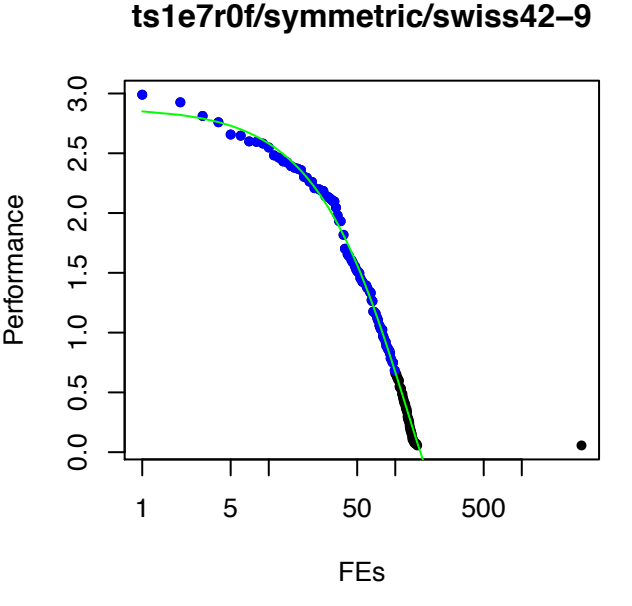
100
FEs


ts1e7r0f/symmetric/swiss42−9
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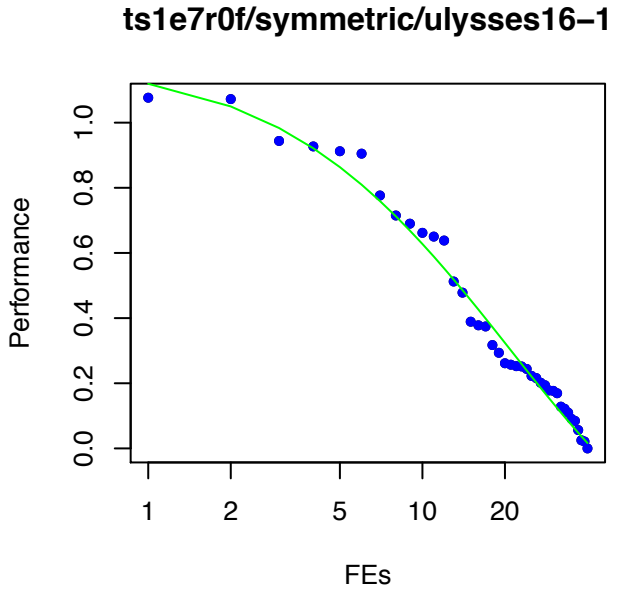
500
FEs


ts1e7r0f/symmetric/ulysses16−1
Performance
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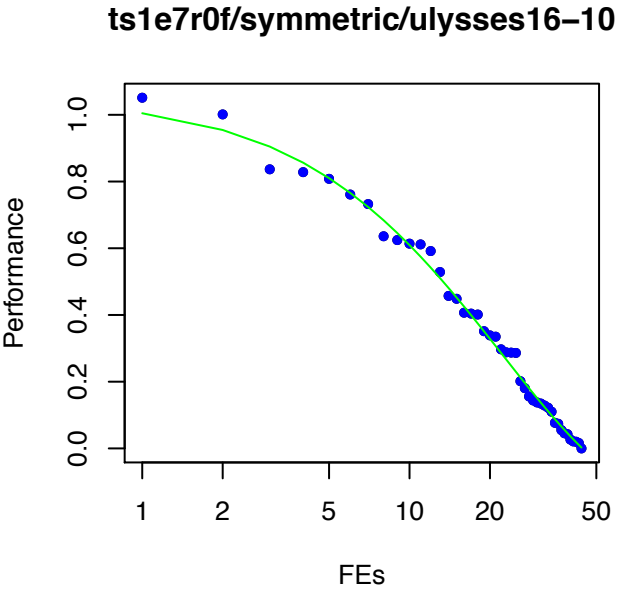
1.0
1
2
5
10
20
FEs


ts1e7r0f/symmetric/ulysses16−10
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0.8
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1
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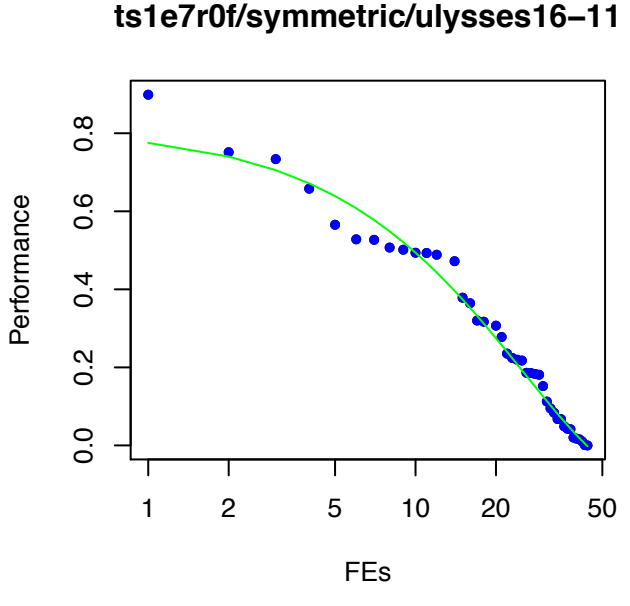
20
50
FEs


ts1e7r0f/symmetric/ulysses16−11
Performance
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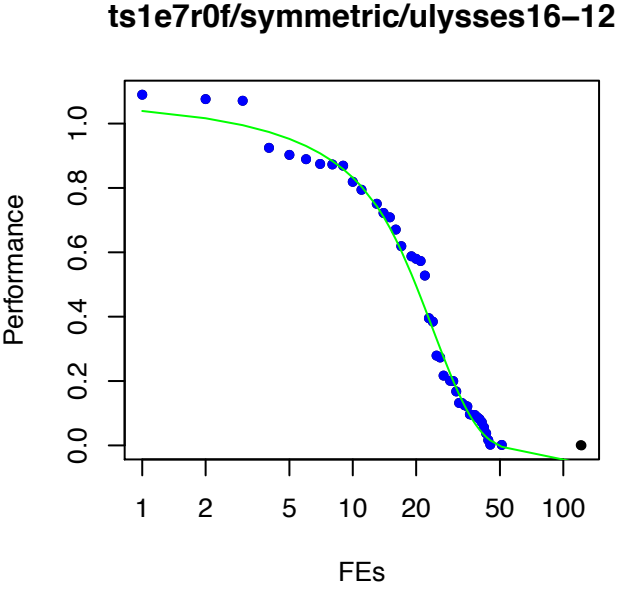
0.8
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/ulysses16−12
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2
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20
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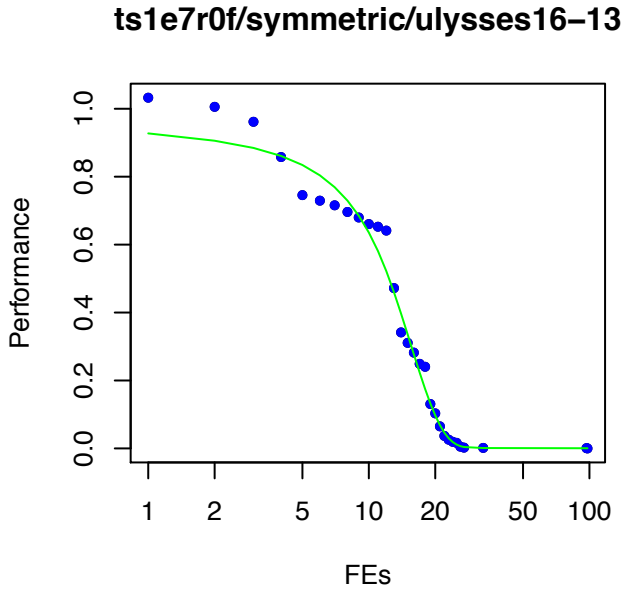
100
FEs


ts1e7r0f/symmetric/ulysses16−13
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0.6
0.8
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1
2
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20
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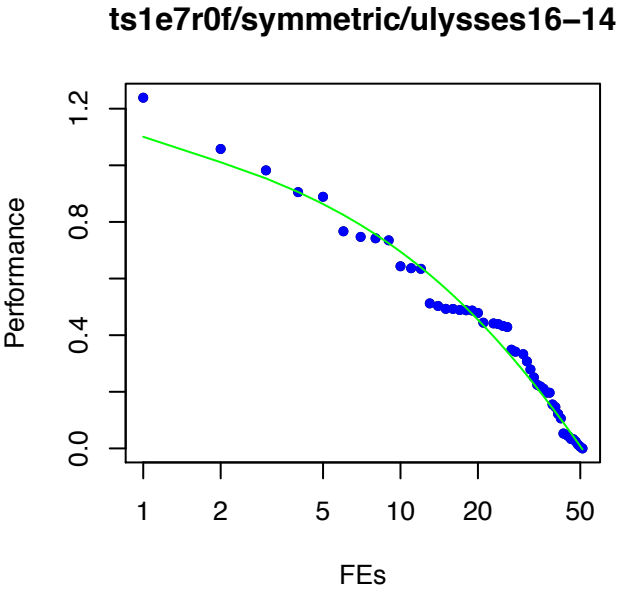
100
FEs


ts1e7r0f/symmetric/ulysses16−14
Performance
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20
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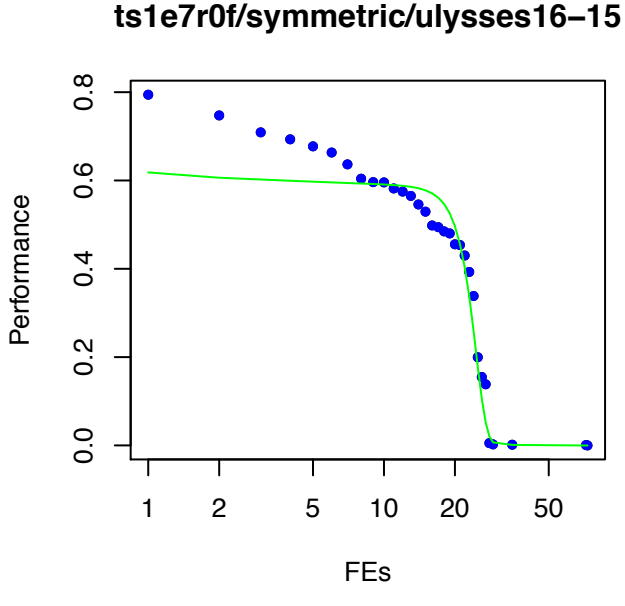
FEs


ts1e7r0f/symmetric/ulysses16−15
Performance
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0.6
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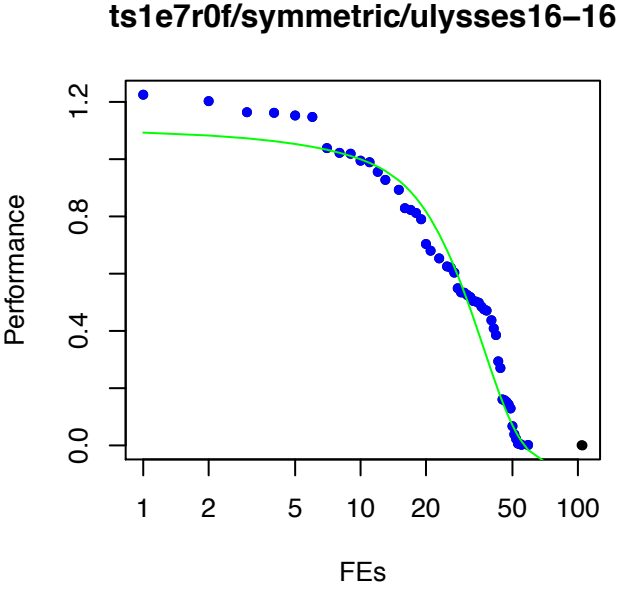
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/ulysses16−16
Performance
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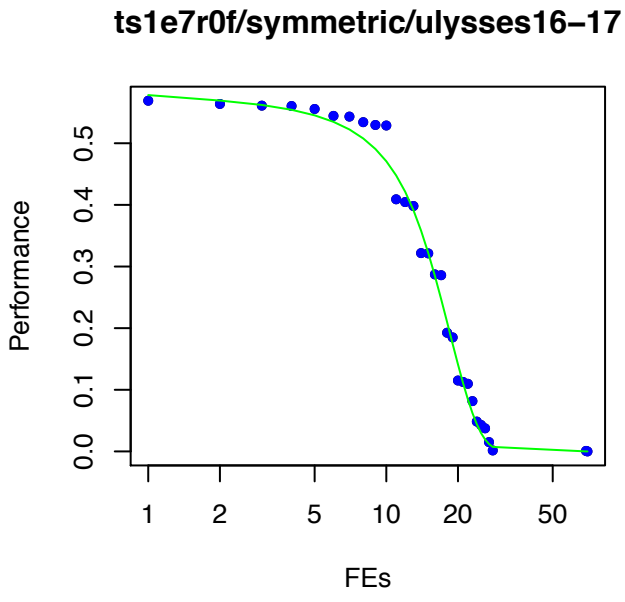
FEs


ts1e7r0f/symmetric/ulysses16−17
Performance
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0.5
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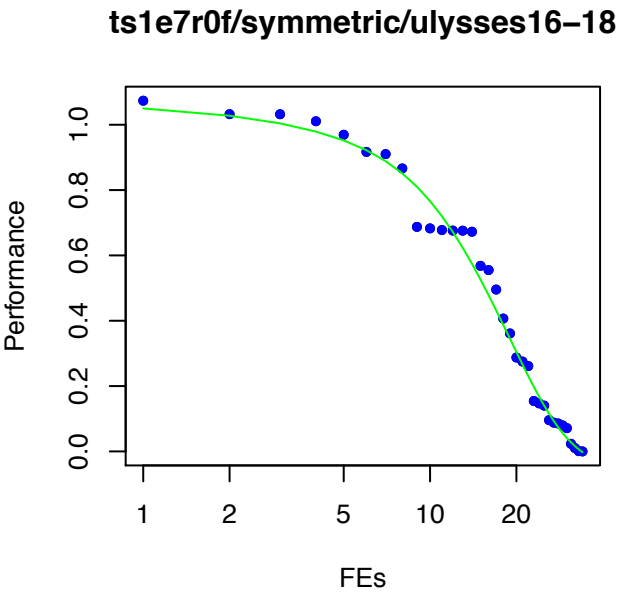
10
20
50
FEs


ts1e7r0f/symmetric/ulysses16−18
Performance
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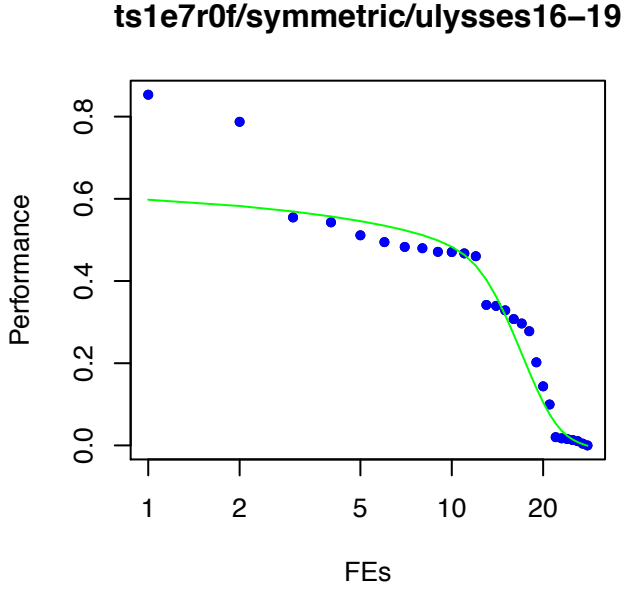
0.6
0.8
1.0
1
2
5
10
20
FEs


ts1e7r0f/symmetric/ulysses16−19
Performance
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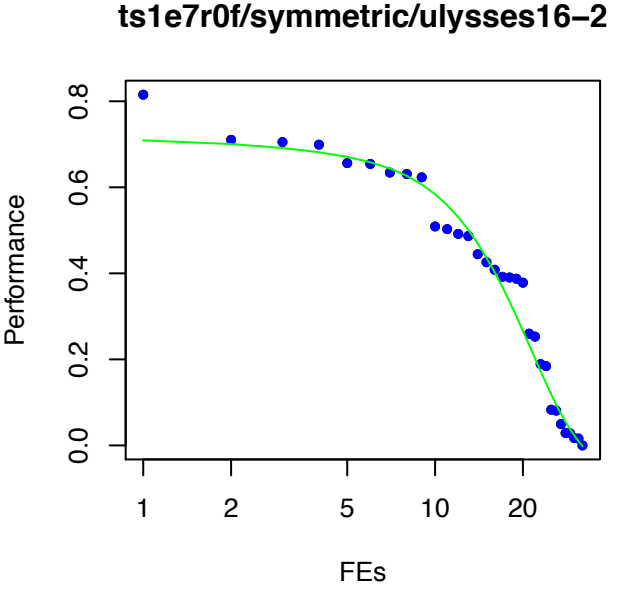
0.6
0.8
1
2
5
10
20
FEs


ts1e7r0f/symmetric/ulysses16−2
Performance
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0.8
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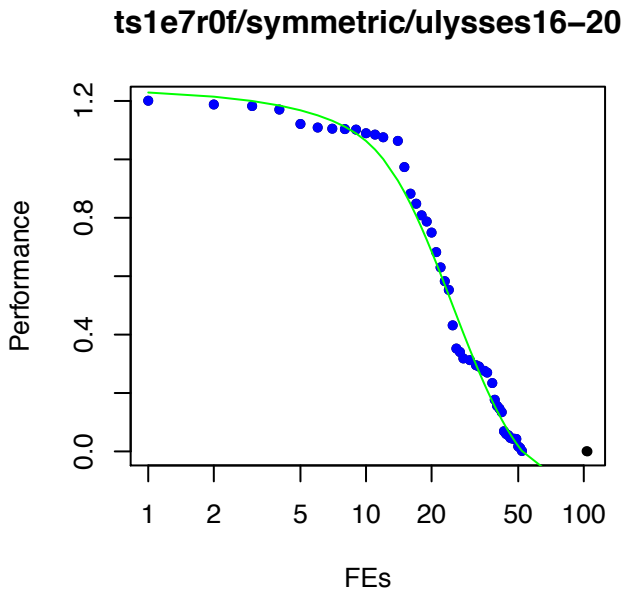
2
5
10
20
FEs


ts1e7r0f/symmetric/ulysses16−20
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20
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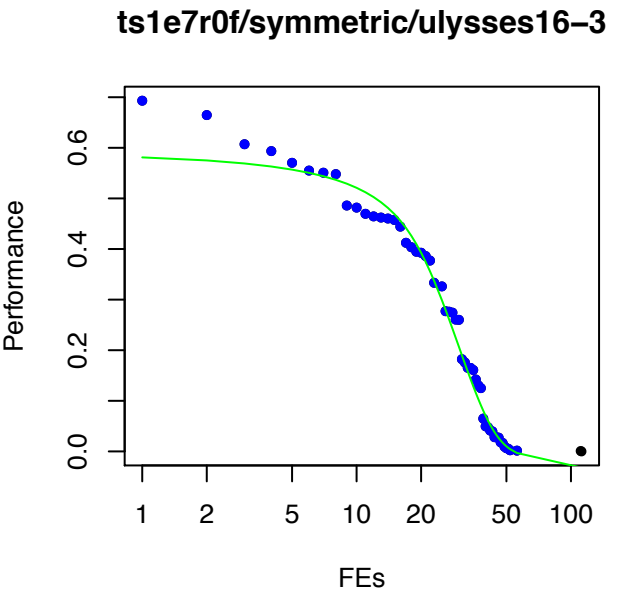
100
FEs


ts1e7r0f/symmetric/ulysses16−3
Performance
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2
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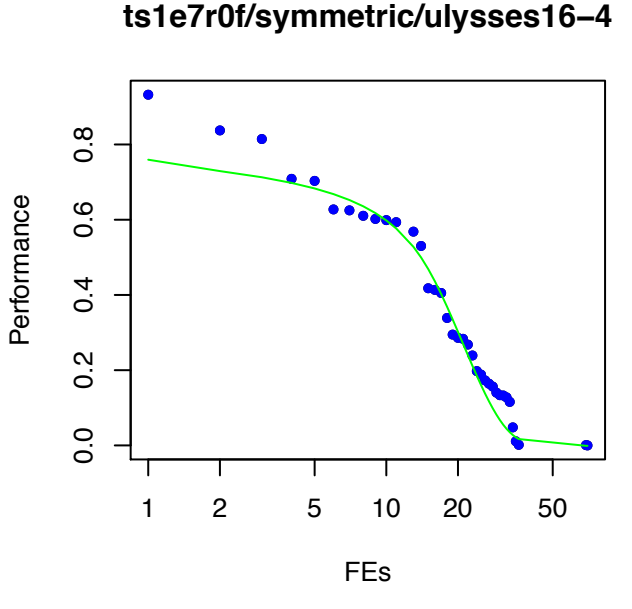
20
50
100
FEs


ts1e7r0f/symmetric/ulysses16−4
Performance
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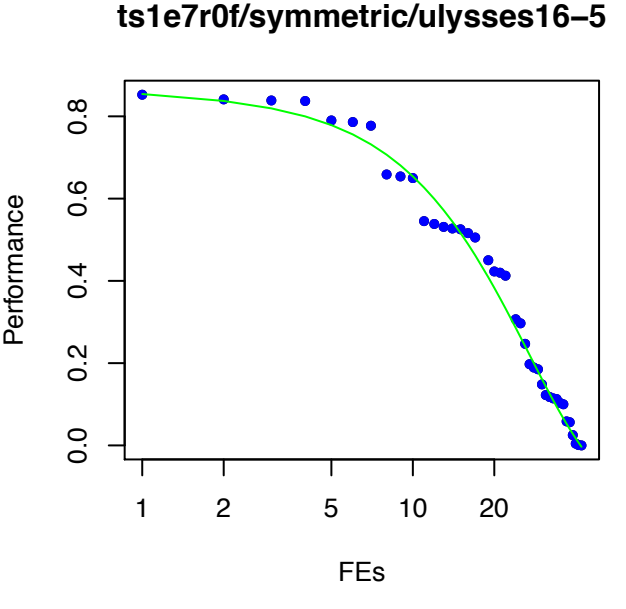
FEs


ts1e7r0f/symmetric/ulysses16−5
Performance
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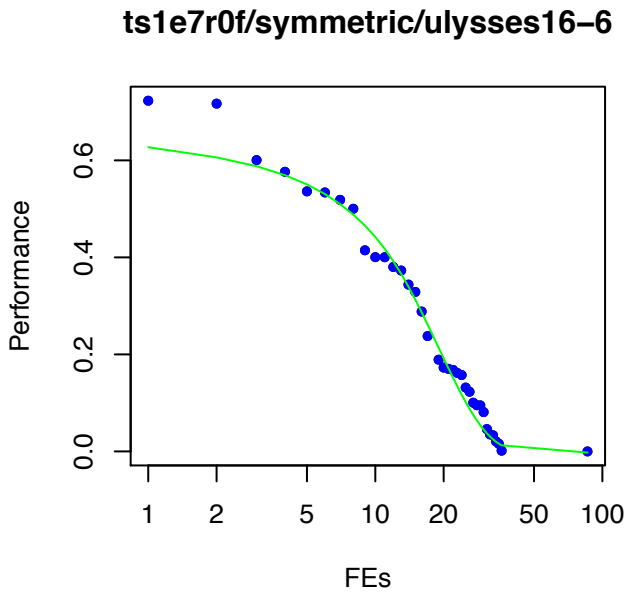
FEs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Performance
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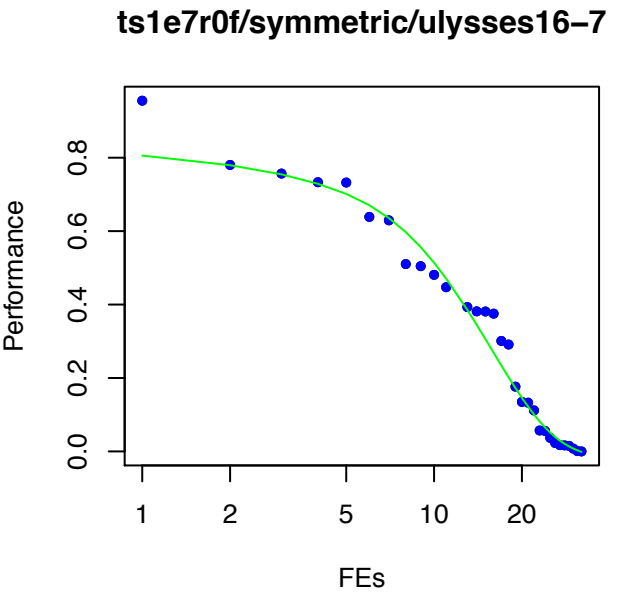
FEs


ts1e7r0f/symmetric/ulysses16−7
Performance
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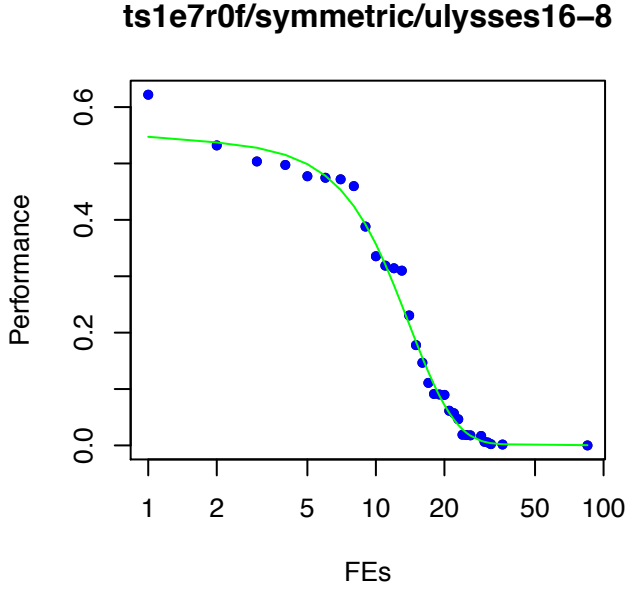
FEs


ts1e7r0f/symmetric/ulysses16−8
Performance
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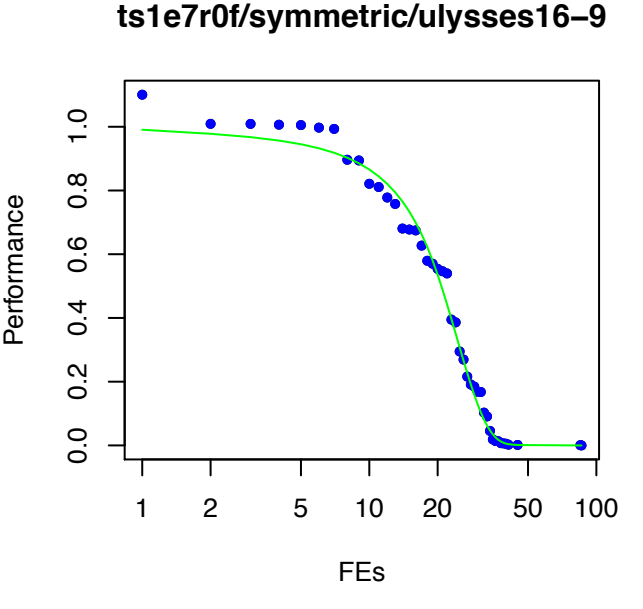
FEs


ts1e7r0f/symmetric/ulysses16−9
Performance
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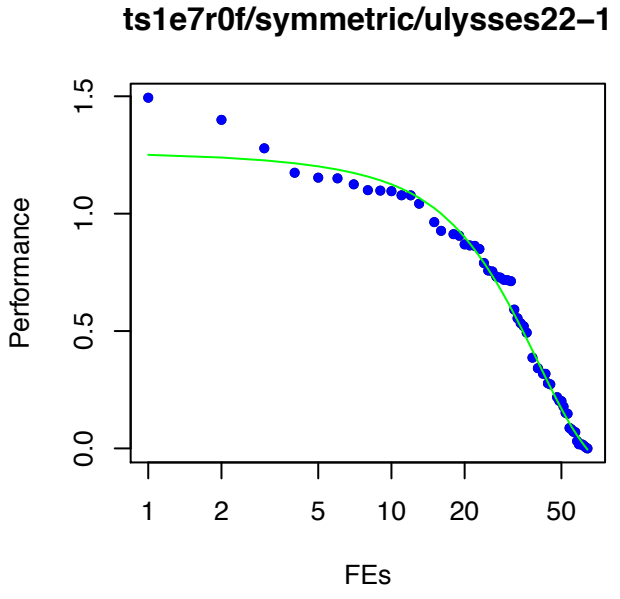
FEs


ts1e7r0f/symmetric/ulysses22−1
Performance
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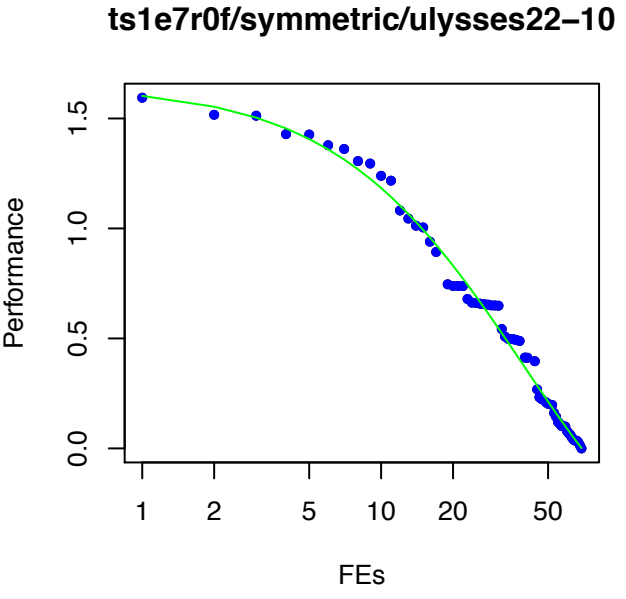
FEs


ts1e7r0f/symmetric/ulysses22−10
Performance
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2
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10
20
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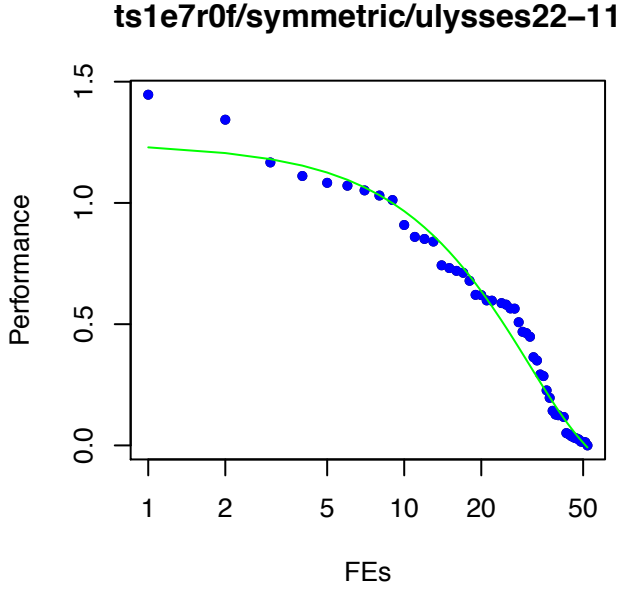
FEs


ts1e7r0f/symmetric/ulysses22−11
Performance
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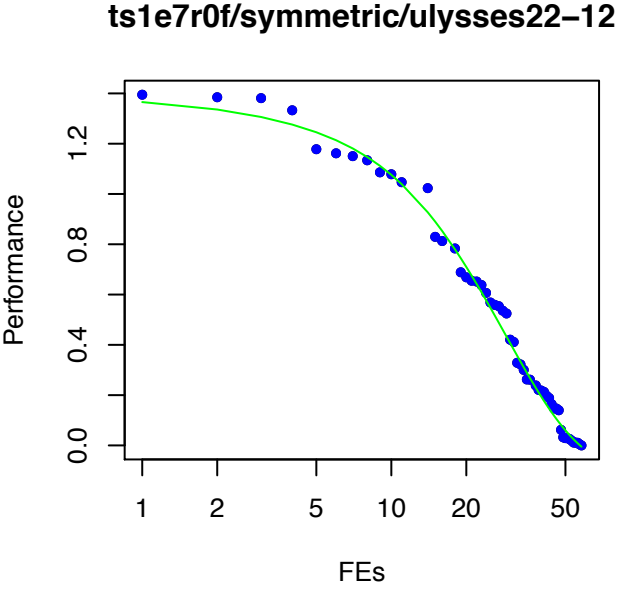
FEs


ts1e7r0f/symmetric/ulysses22−12
Performance
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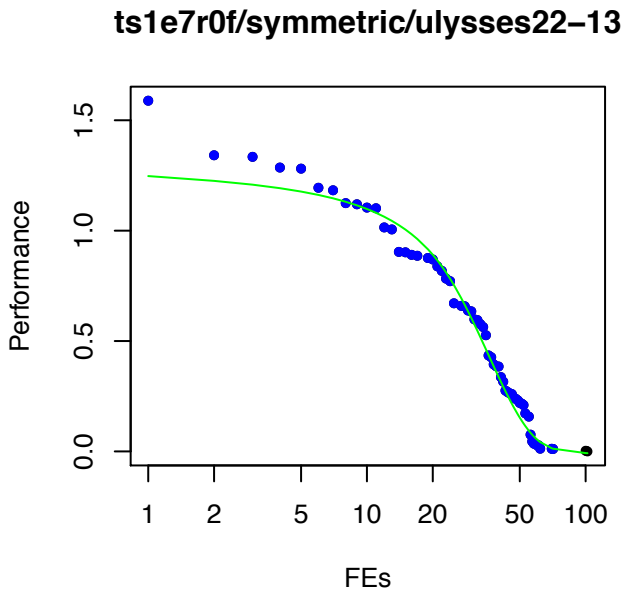
FEs


ts1e7r0f/symmetric/ulysses22−13
Performance
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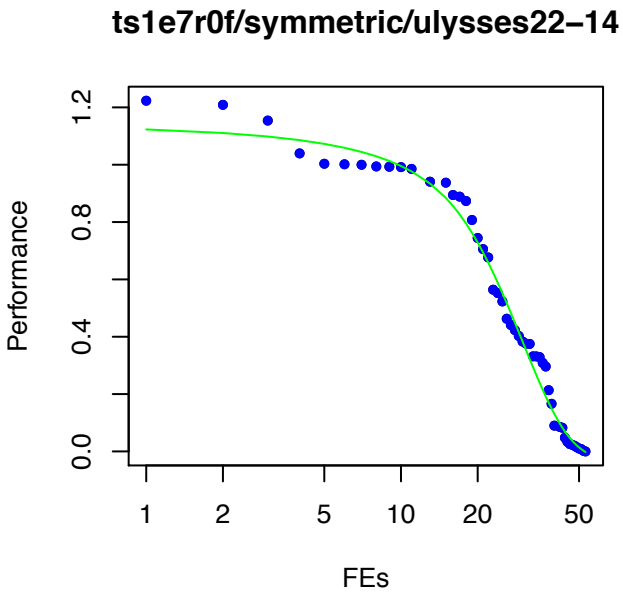
FEs


ts1e7r0f/symmetric/ulysses22−14
Performance
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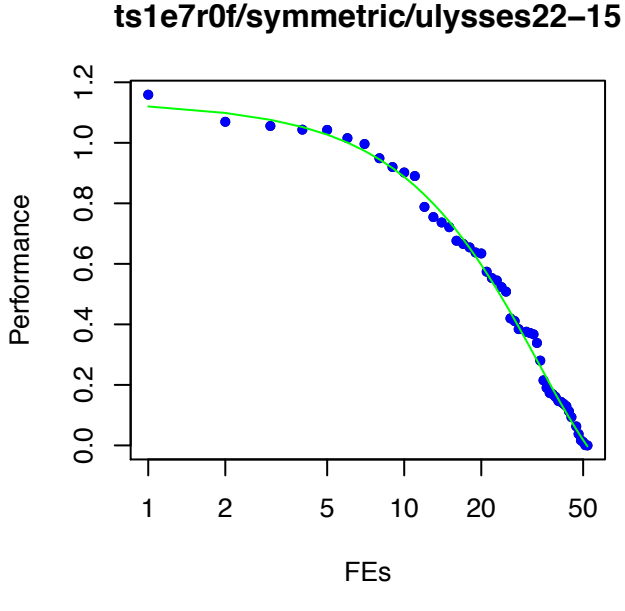
FEs


ts1e7r0f/symmetric/ulysses22−15
Performance
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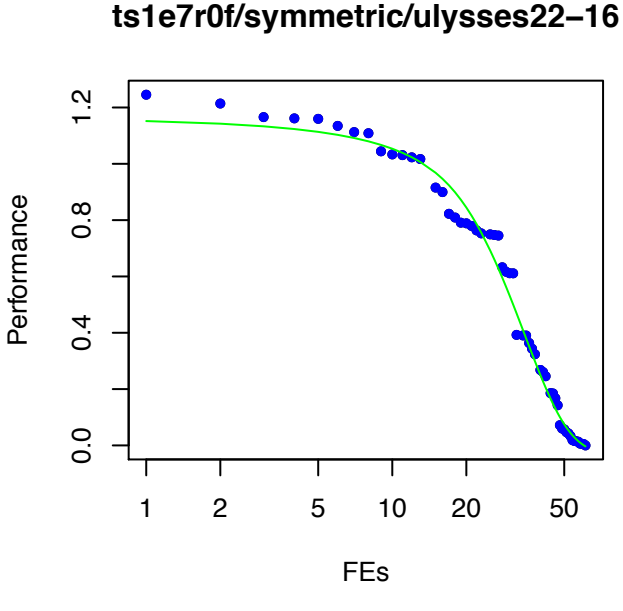
FEs


ts1e7r0f/symmetric/ulysses22−16
Performance
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0.8
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2
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10
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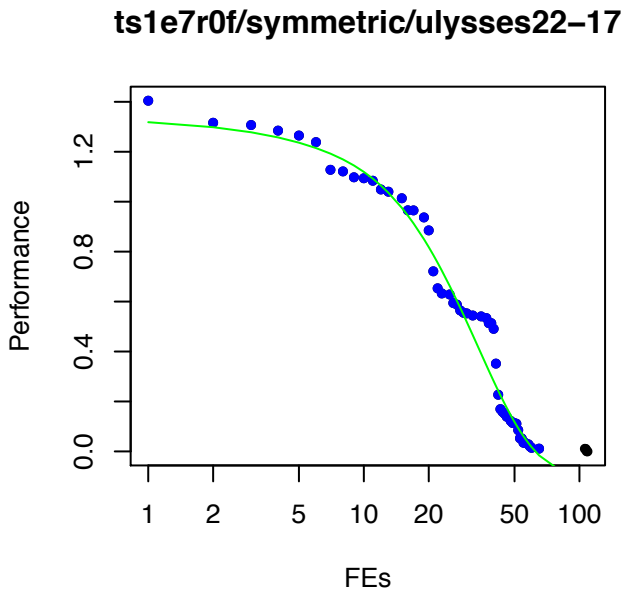
FEs


ts1e7r0f/symmetric/ulysses22−17
Performance
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0.8
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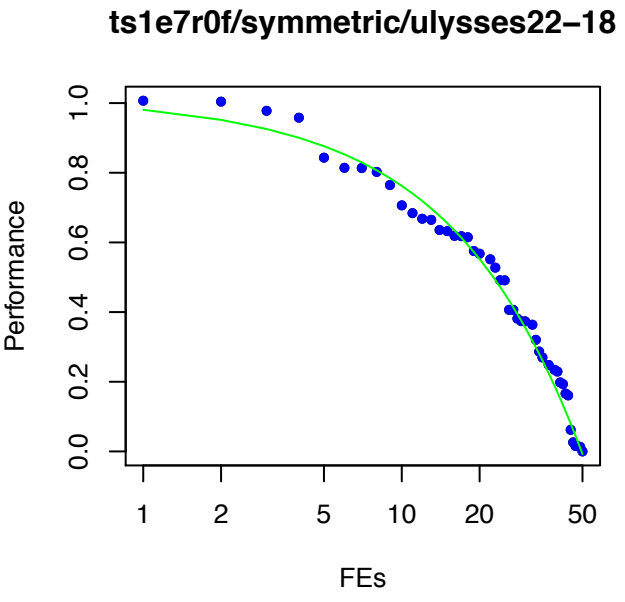
100
FEs


ts1e7r0f/symmetric/ulysses22−18
Performance
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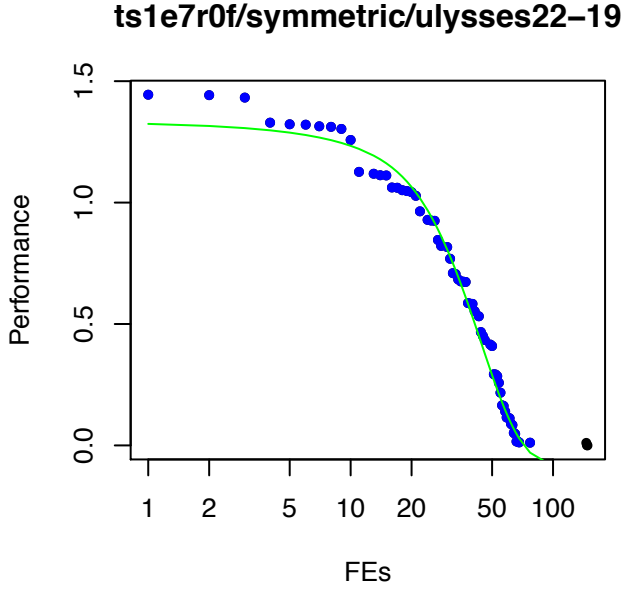
FEs


ts1e7r0f/symmetric/ulysses22−19
Performance
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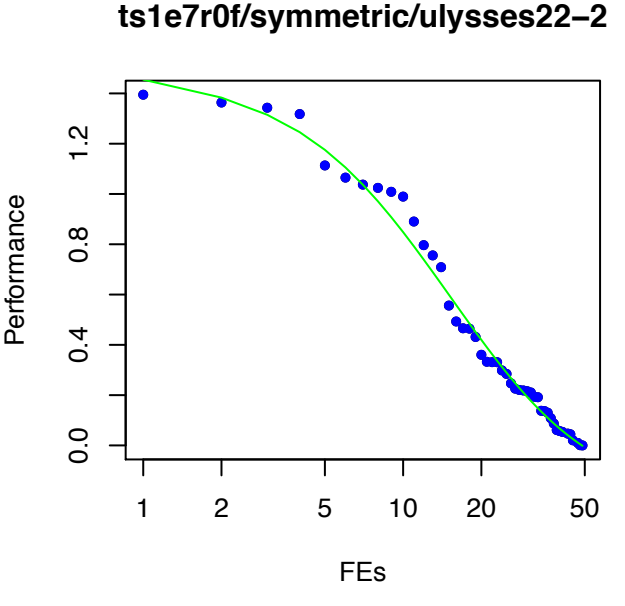
0.5
1.0
1.5
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/ulysses22−2
Performance
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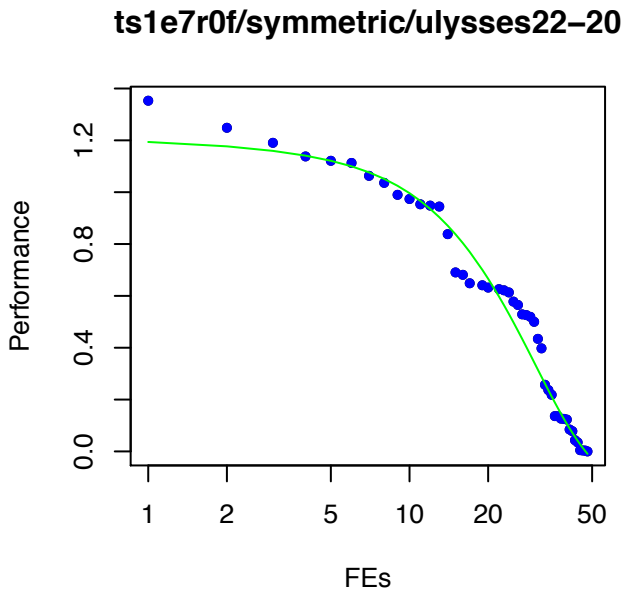
0.4
0.8
1.2
1
2
5
10
20
50
FEs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Performance
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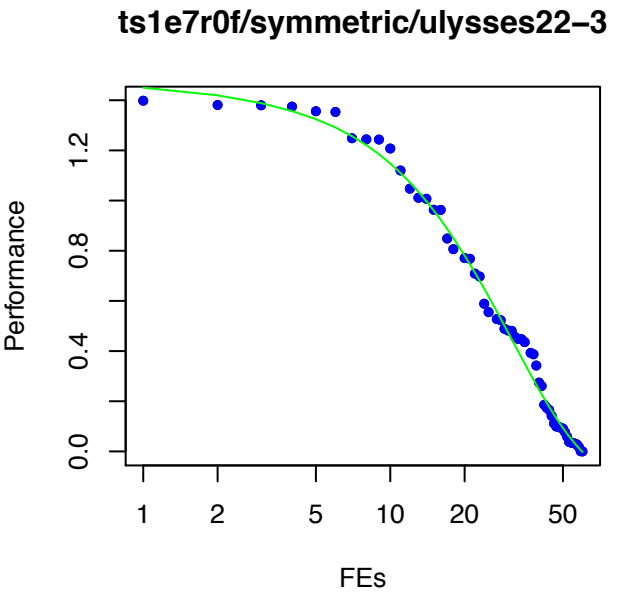
0.8
1.2
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/ulysses22−3
Performance
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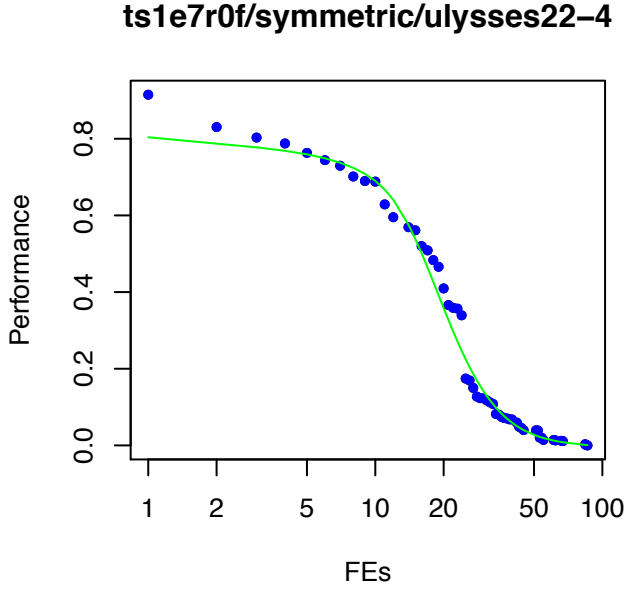
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/ulysses22−4
Performance
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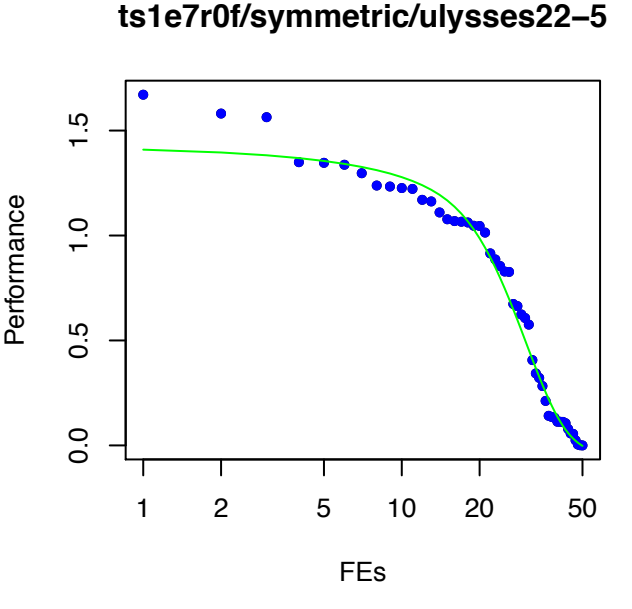
0.4
0.6
0.8
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/ulysses22−5
Performance
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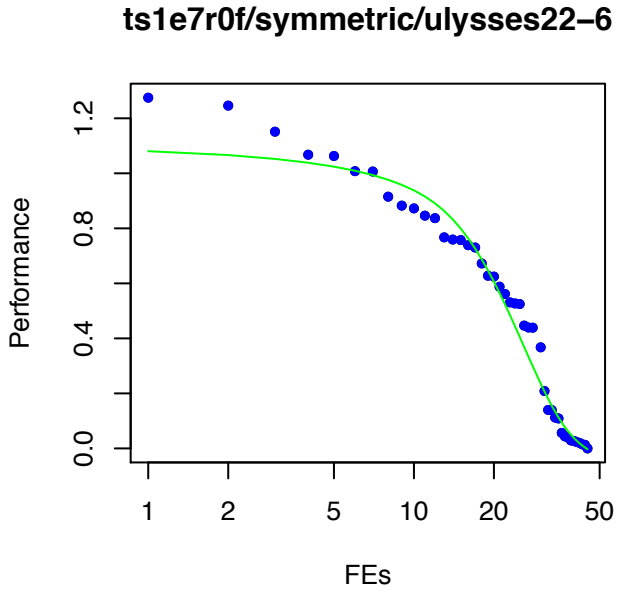
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/ulysses22−6
Performance
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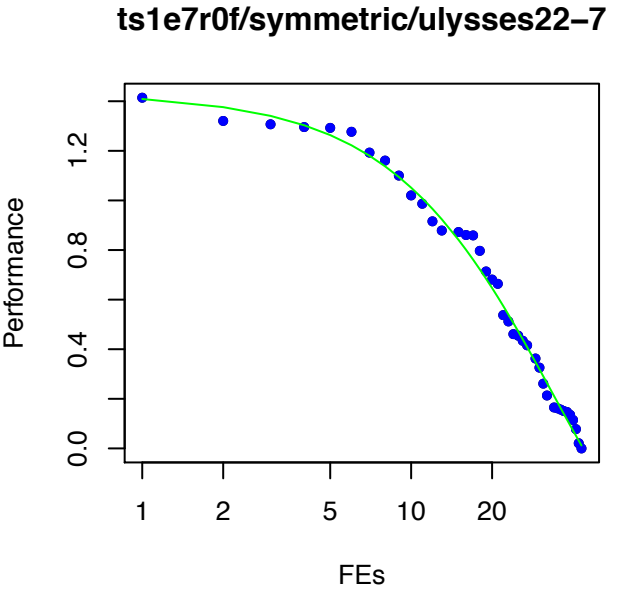
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/ulysses22−7
Performance
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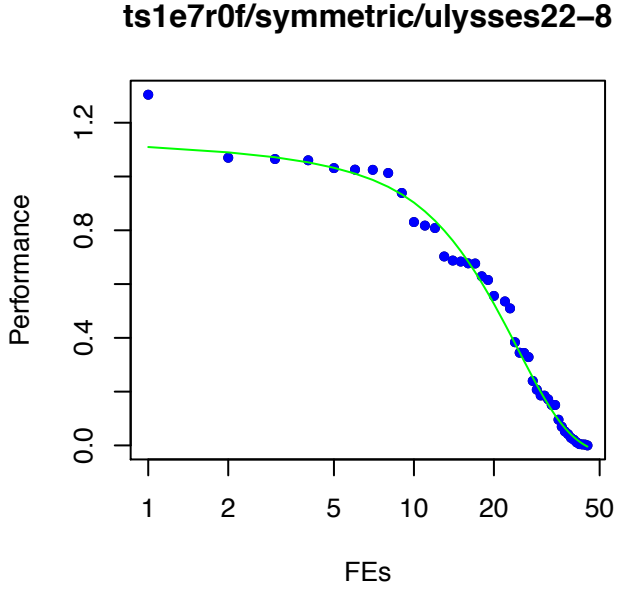
0.4
0.8
1.2
1
2
5
10
20
FEs


ts1e7r0f/symmetric/ulysses22−8
Performance
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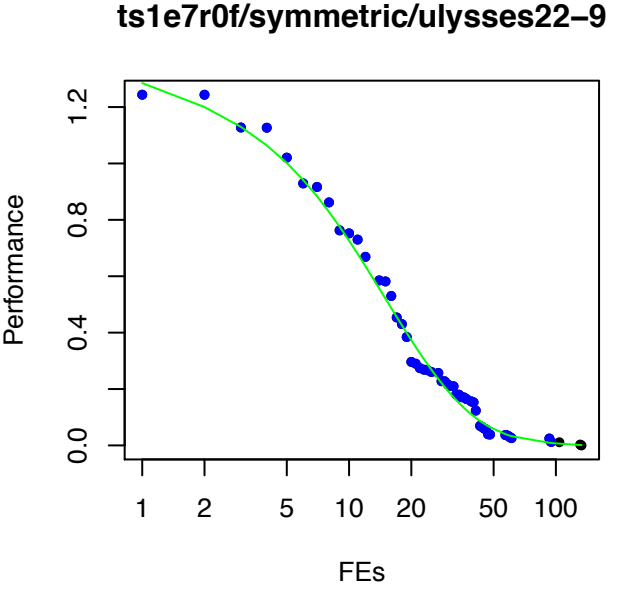
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/ulysses22−9
Performance
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0.4
0.8
1.2
1
2
5
10
20
50
100
FEs