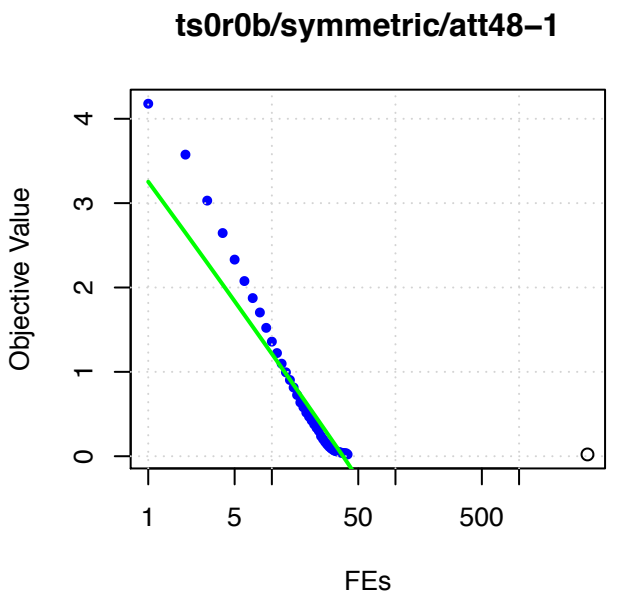
ts0r0b/symmetric/att48−1
Objective Value
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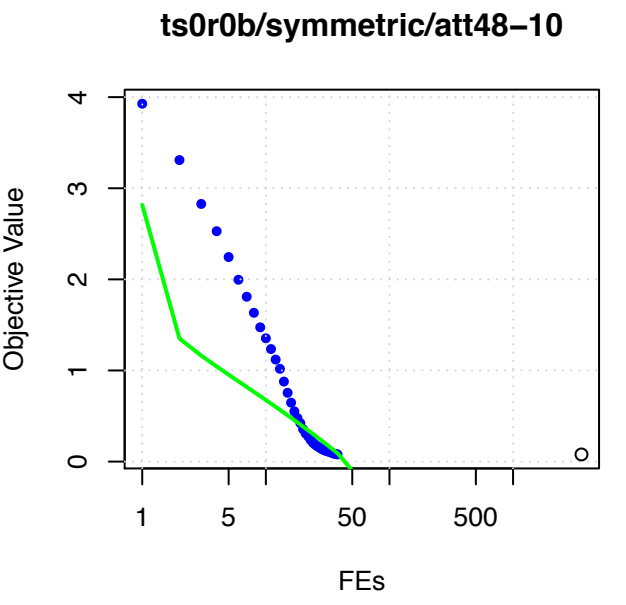
FEs


ts0r0b/symmetric/att48−10
Objective Value
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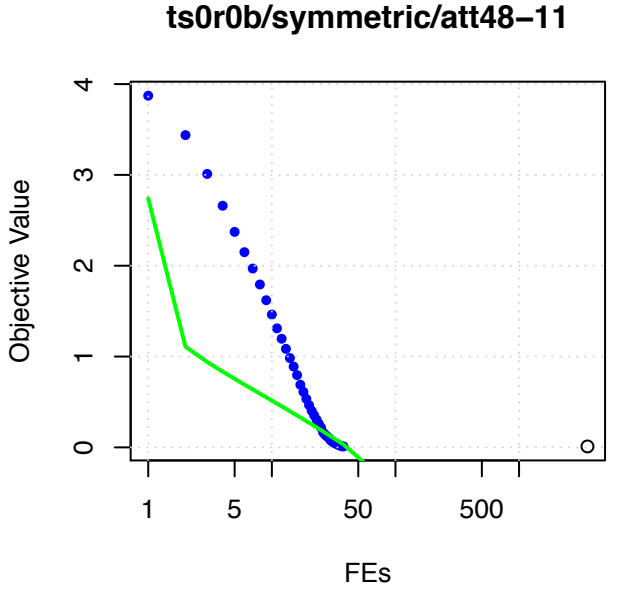
ts0r0b/symmetric/att48−11
Objective Value
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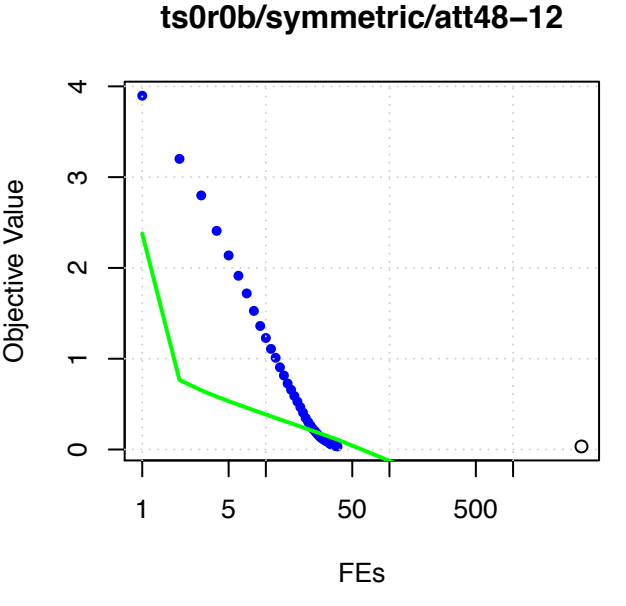
FEs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Objective Value
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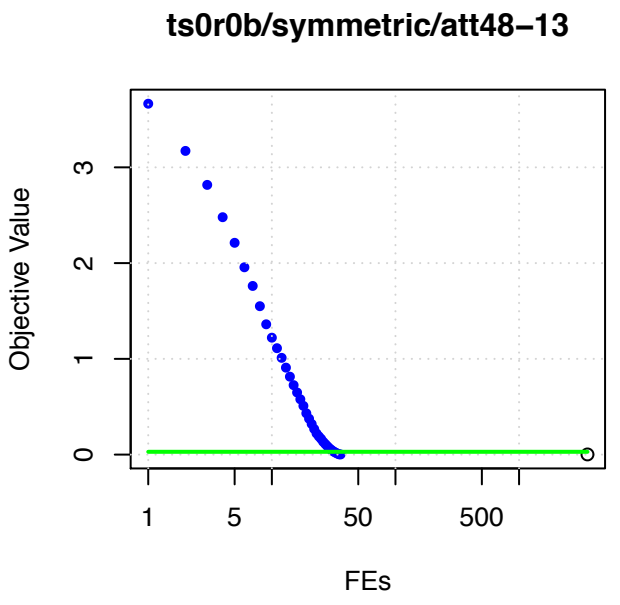
FEs


ts0r0b/symmetric/att48−13
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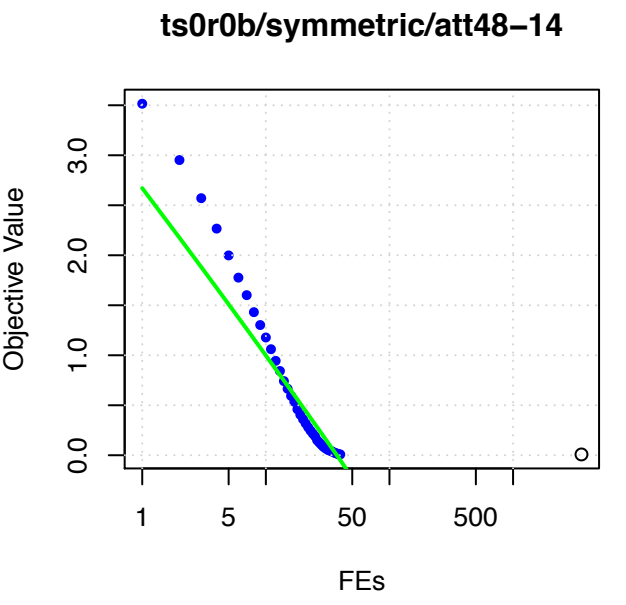
FEs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Objective Value
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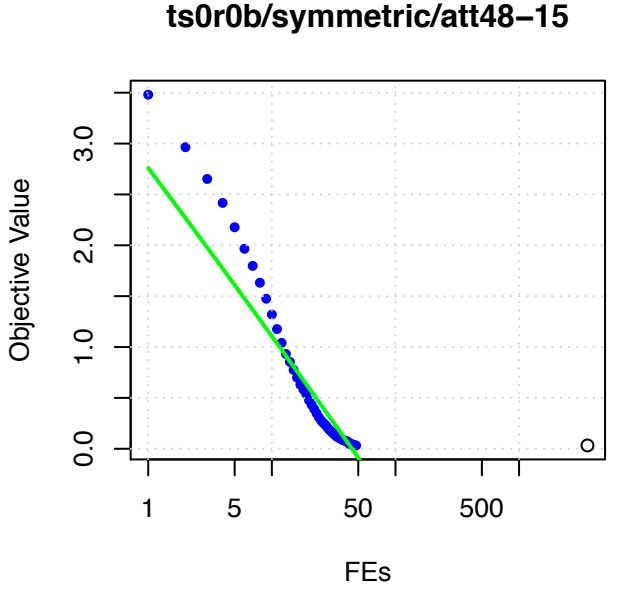
FEs


ts0r0b/symmetric/att48−15
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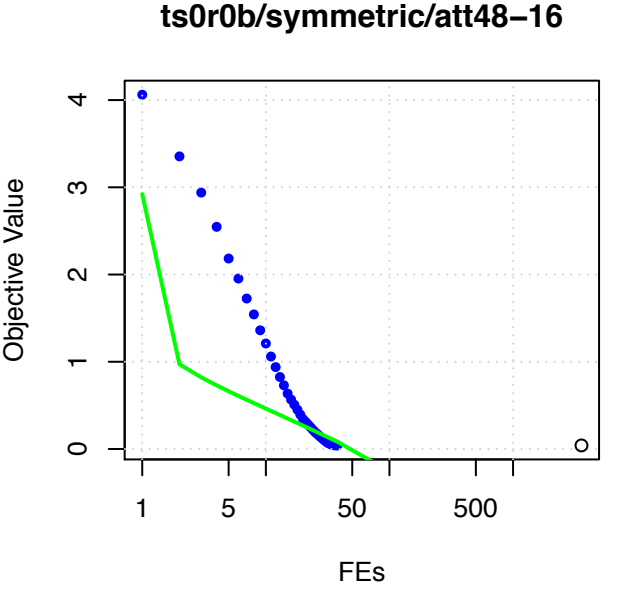
FEs


ts0r0b/symmetric/att48−16
Objective Value
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4
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5
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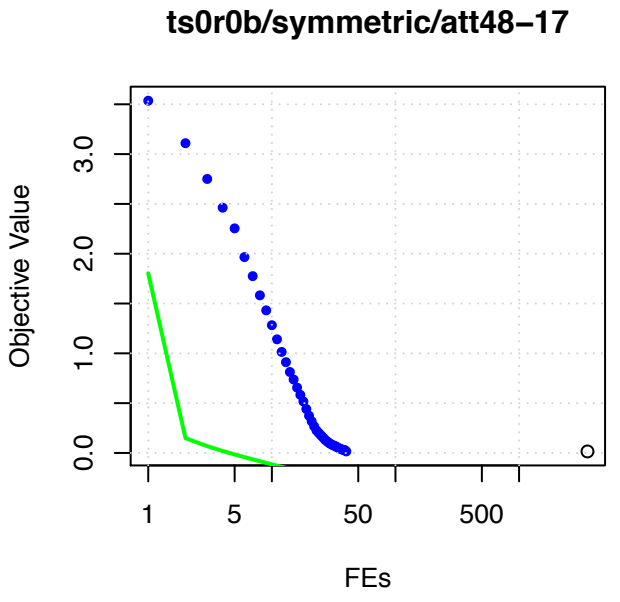
500
FEs


ts0r0b/symmetric/att48−17
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1.0
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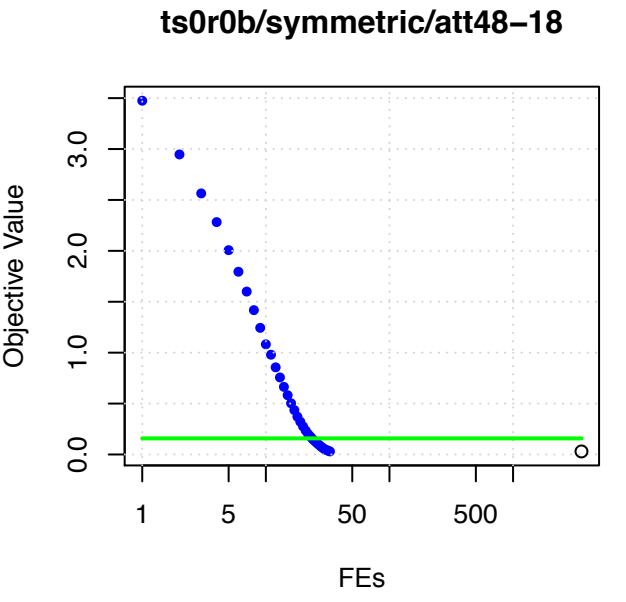
FEs


ts0r0b/symmetric/att48−18
Objective Value
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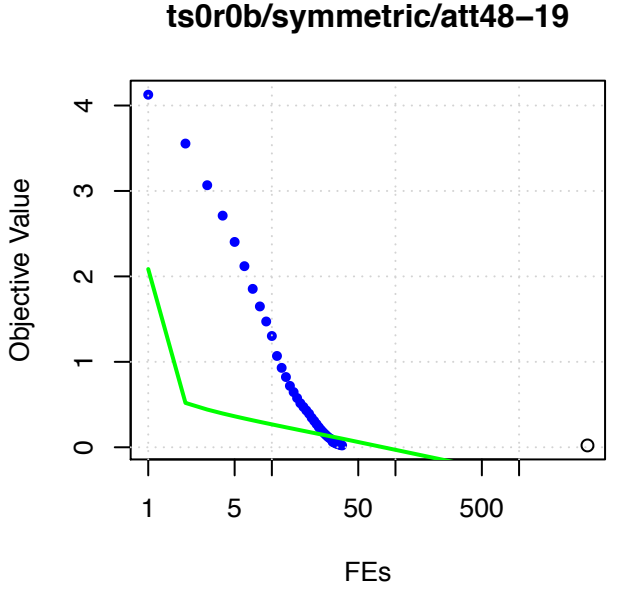
FEs


ts0r0b/symmetric/att48−19
Objective Value
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4
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5
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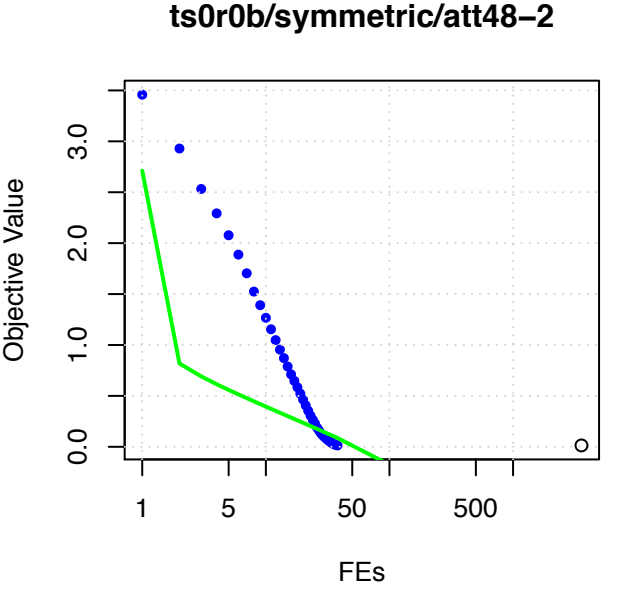
500
FEs


ts0r0b/symmetric/att48−2
Objective Value
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1.0
2.0
3.0
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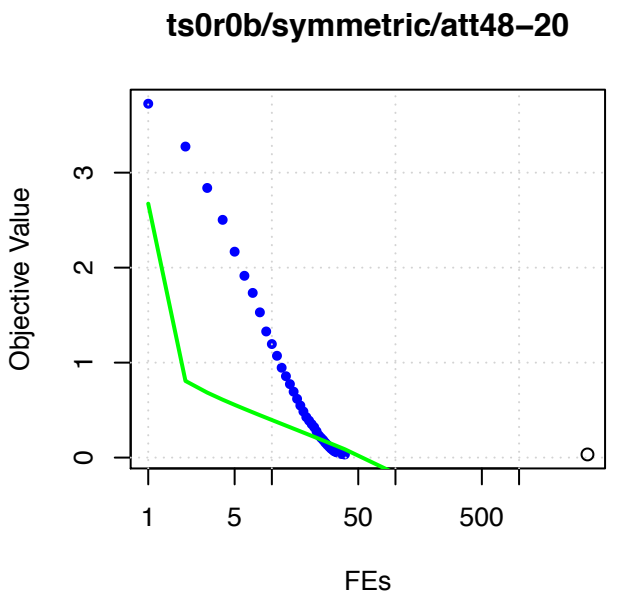
500
FEs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Objective Value
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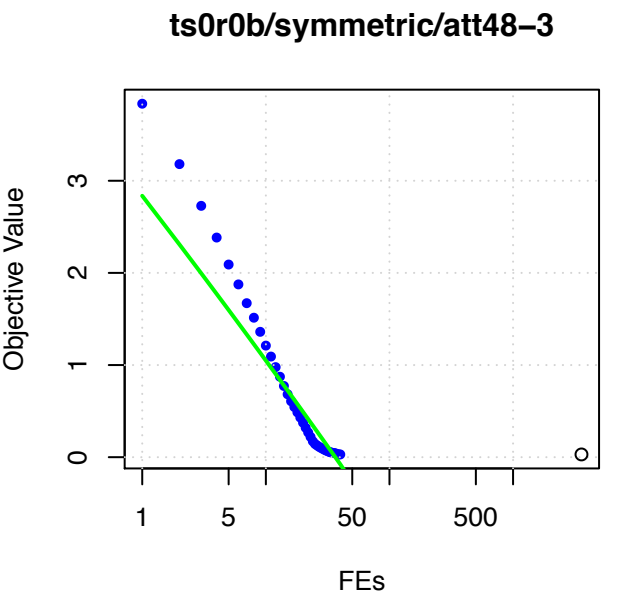
500
FEs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Objective Value
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3
1
5
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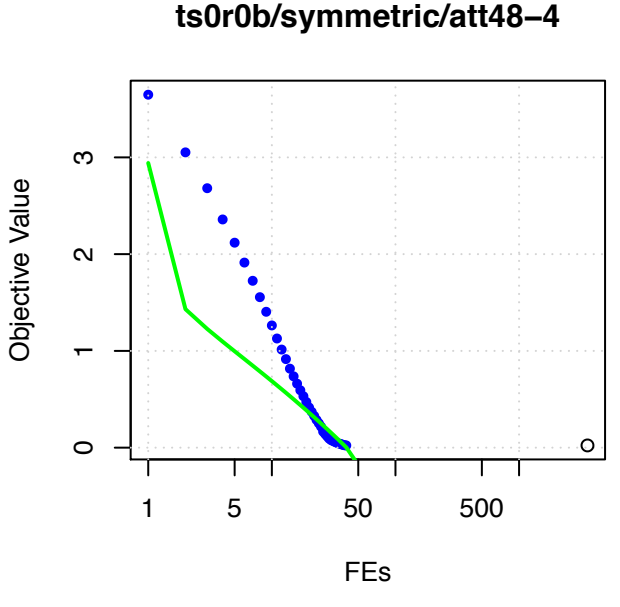
500
FEs


ts0r0b/symmetric/att48−4
Objective Value
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1
5
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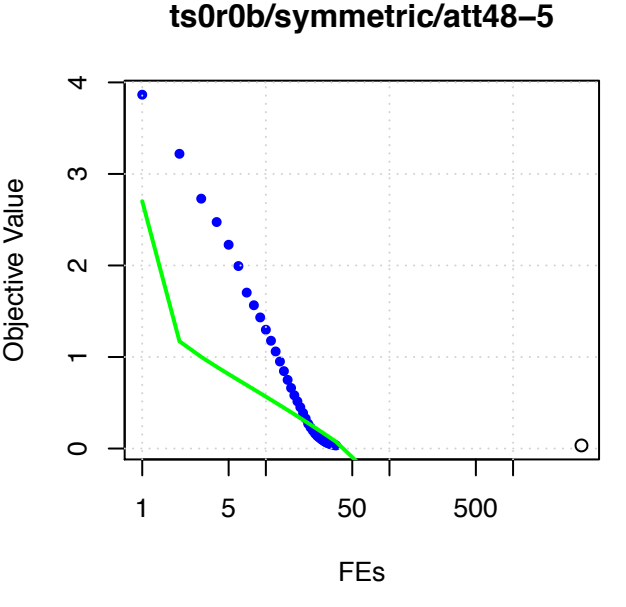
500
FEs


ts0r0b/symmetric/att48−5
Objective Value
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4
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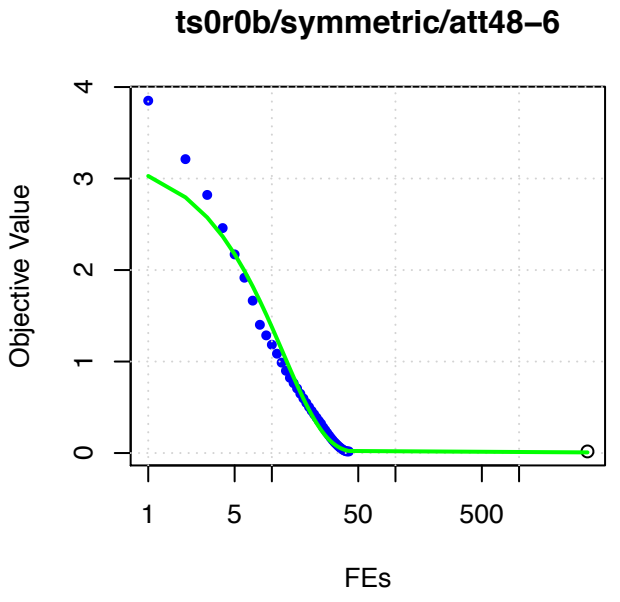
5
50
500
FEs


ts0r0b/symmetric/att48−6
Objective Value
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4
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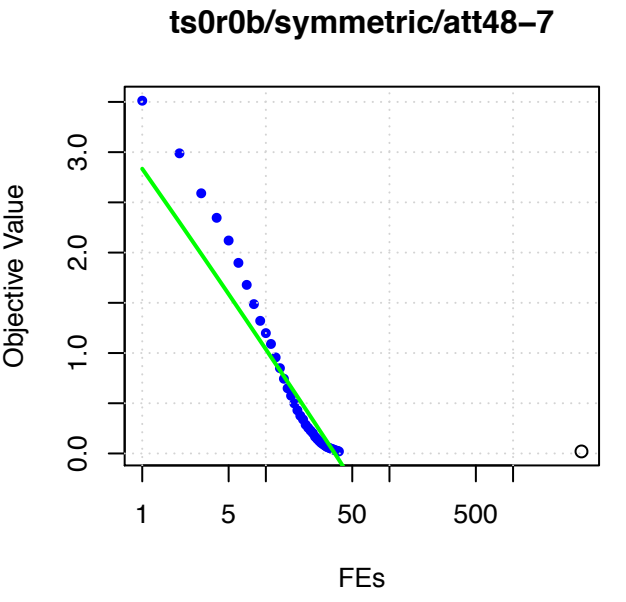
5
50
500
FEs


ts0r0b/symmetric/att48−7
Objective Value
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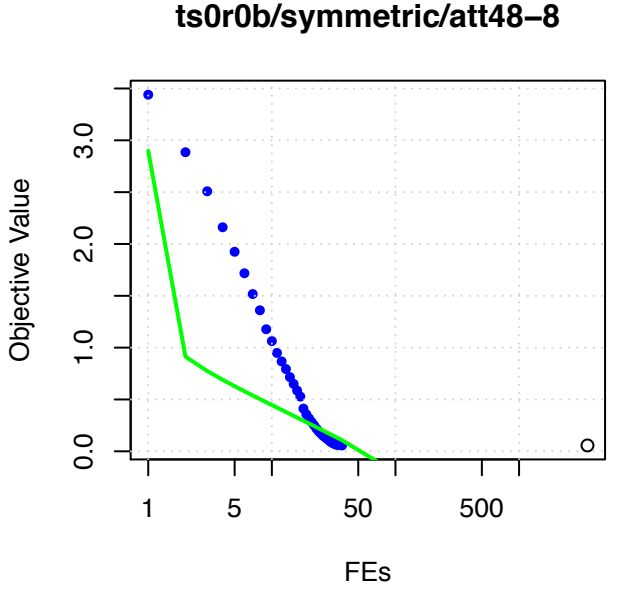
3.0
1
5
50
500
FEs


ts0r0b/symmetric/att48−8
Objective Value
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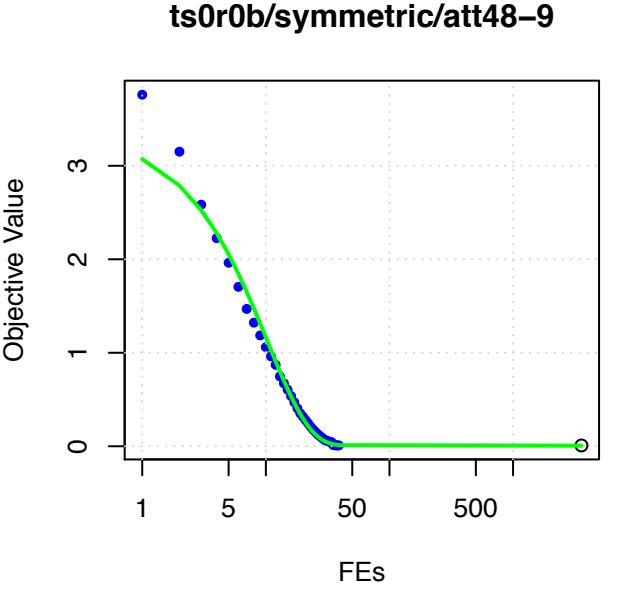
1.0
2.0
3.0
1
5
50
500
FEs


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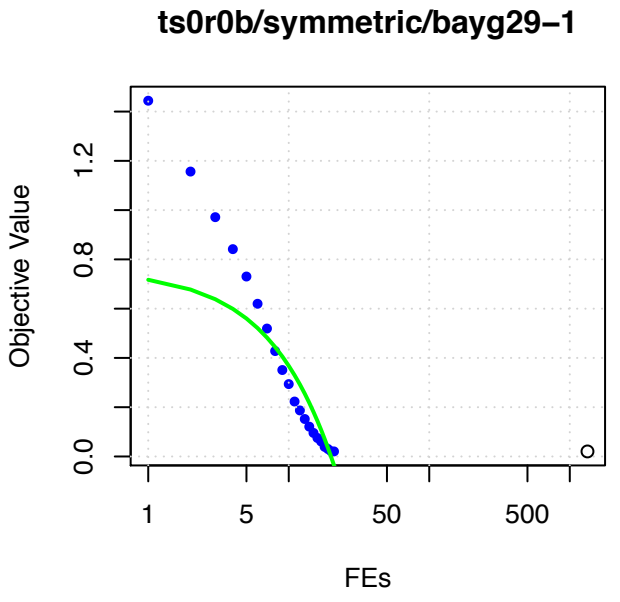
2
3
1
5
50
500
FEs


ts0r0b/symmetric/bayg29−1
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0.8
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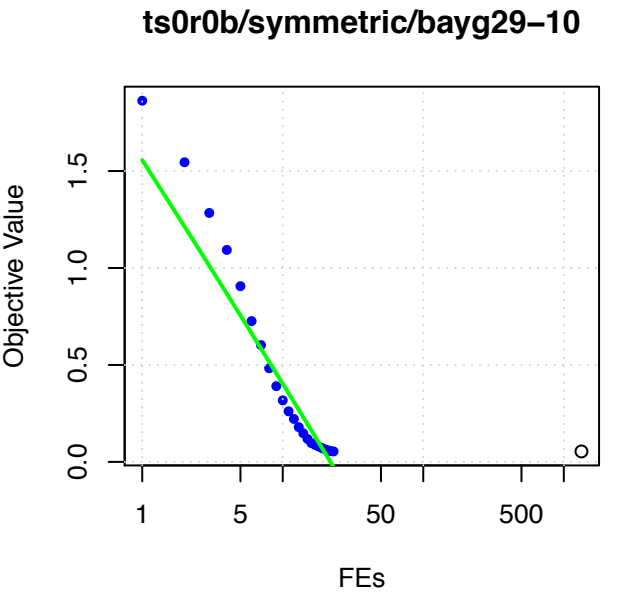
500
FEs


ts0r0b/symmetric/bayg29−10
Objective Value
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1
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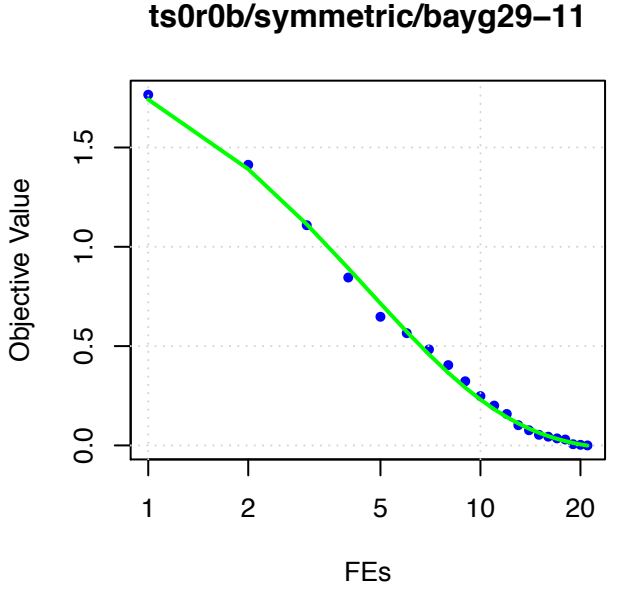
FEs


ts0r0b/symmetric/bayg29−11
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1.5
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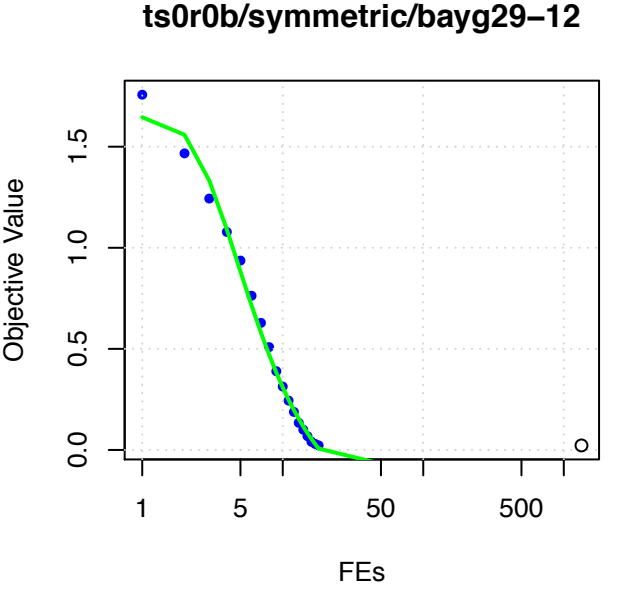
5
10
20
FEs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Objective Value
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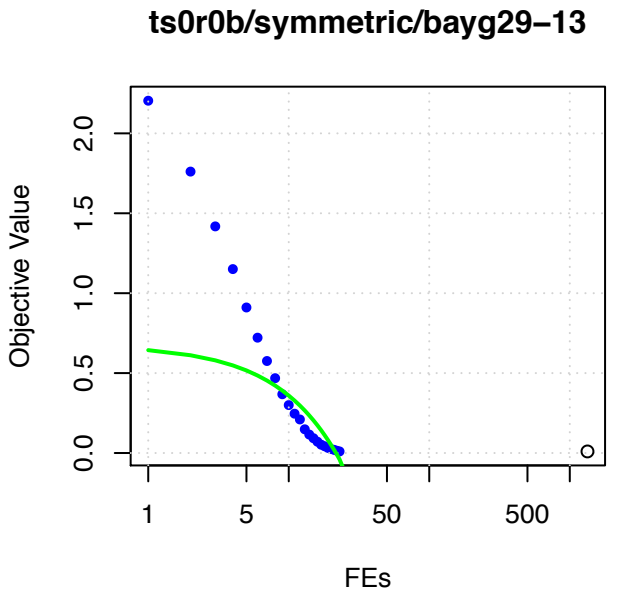
FEs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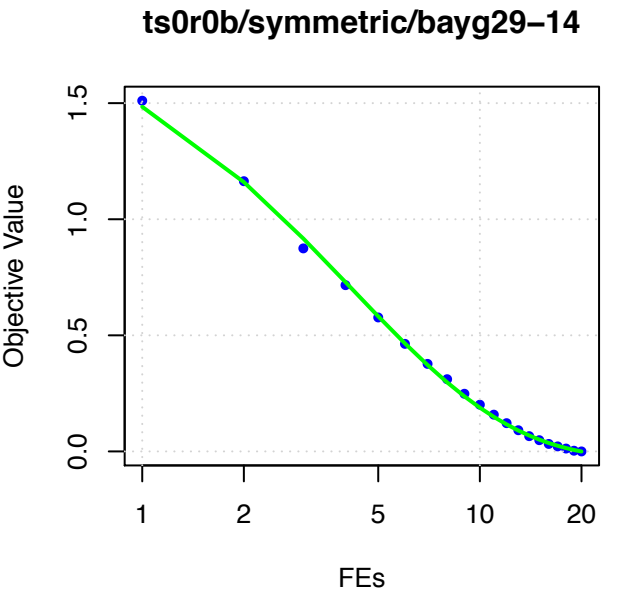
FEs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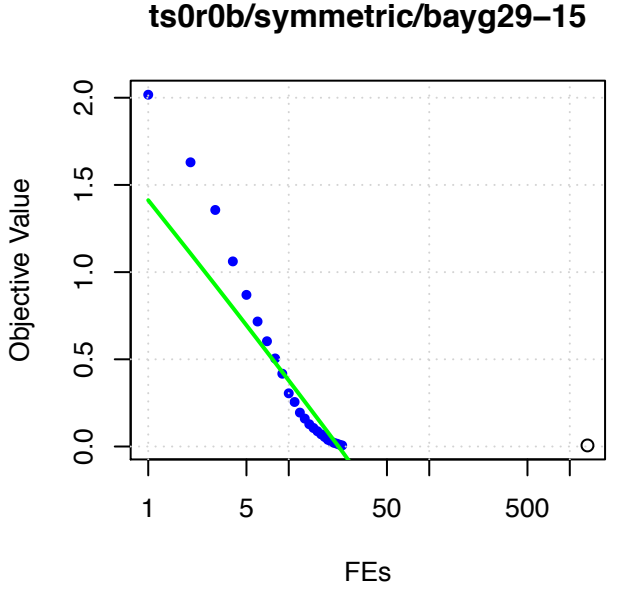
FEs


ts0r0b/symmetric/bayg29−15
Objective Value
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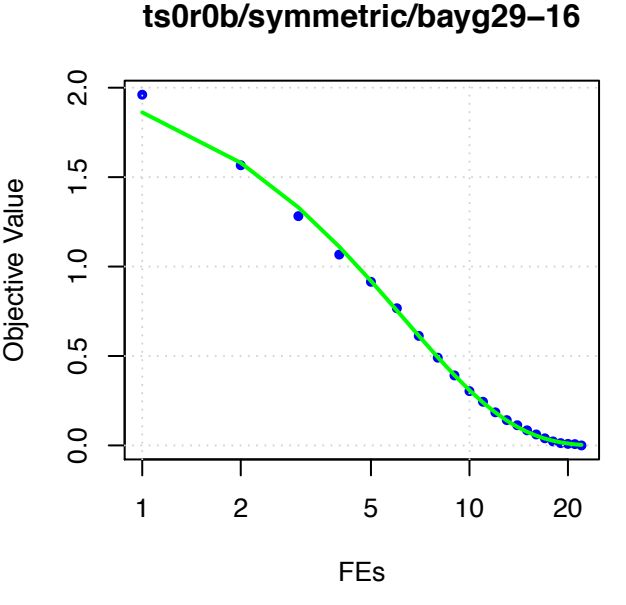
ts0r0b/symmetric/bayg29−16
Objective Value
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1.5
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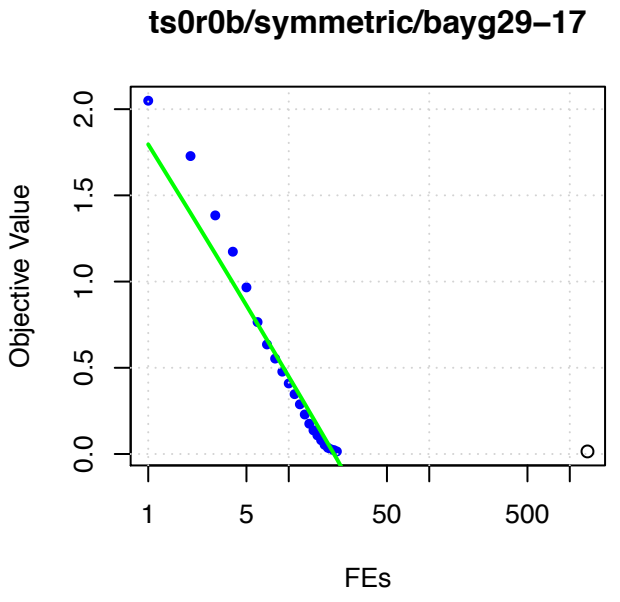
2
5
10
20
FEs


ts0r0b/symmetric/bayg29−17
Objective Value
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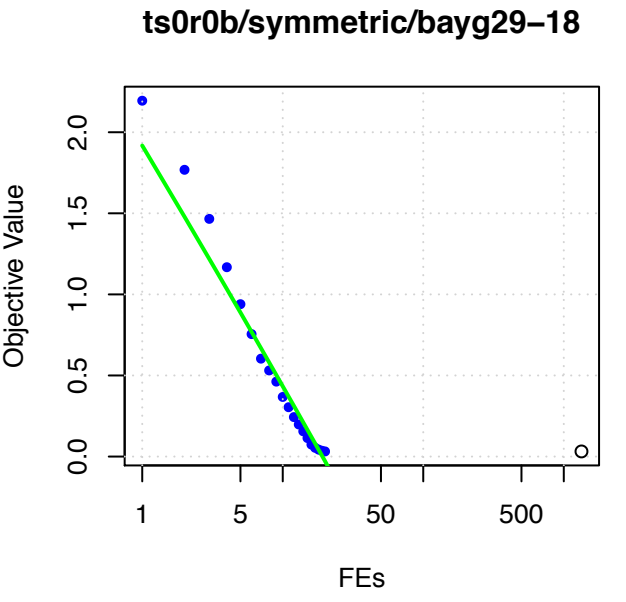
FEs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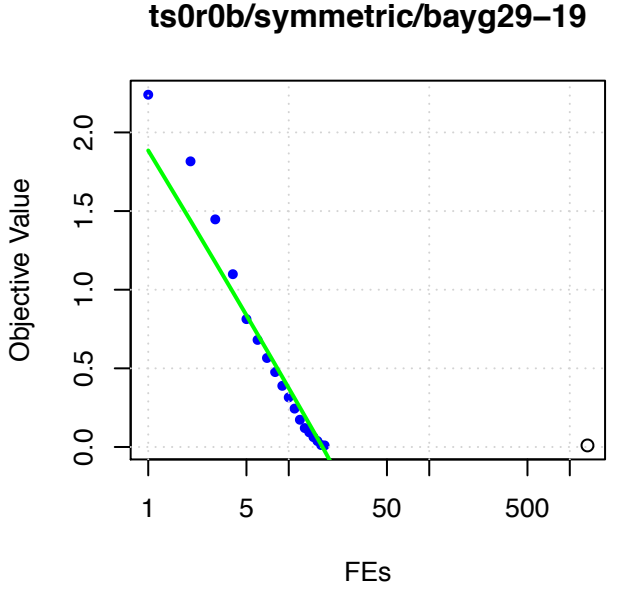
FEs


ts0r0b/symmetric/bayg29−19
Objective Value
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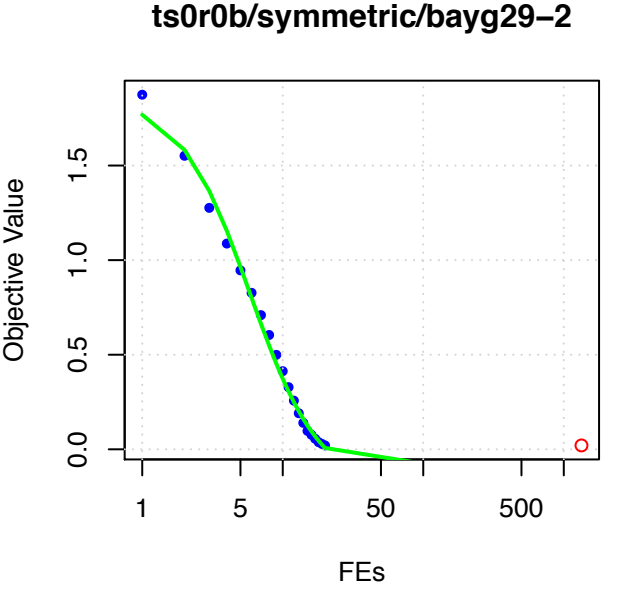
500
FEs


ts0r0b/symmetric/bayg29−2
Objective Value
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1.5
1
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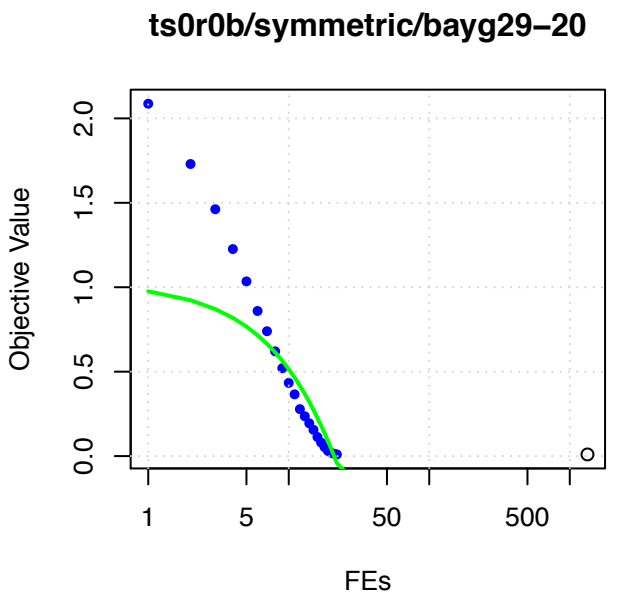
500
FEs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Objective Value
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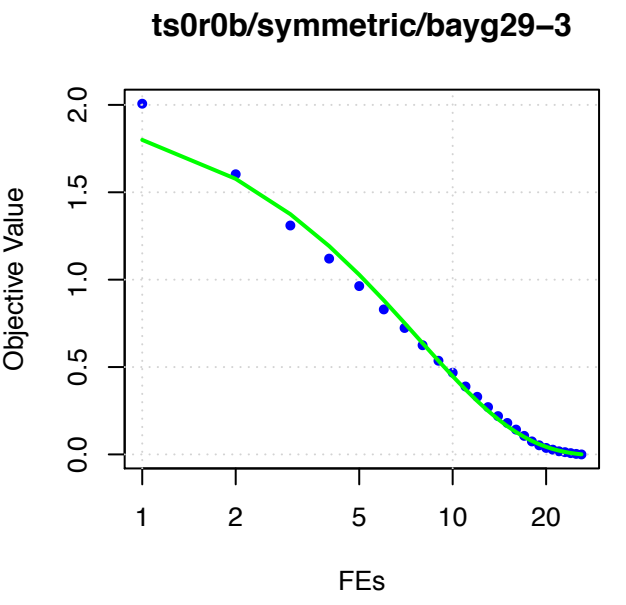
500
FEs


ts0r0b/symmetric/bayg29−3
Objective Value
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1.5
2.0
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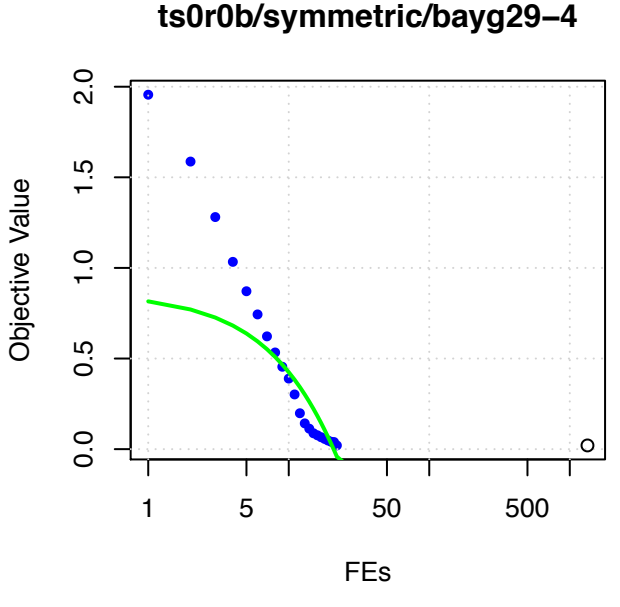
2
5
10
20
FEs


ts0r0b/symmetric/bayg29−4
Objective Value
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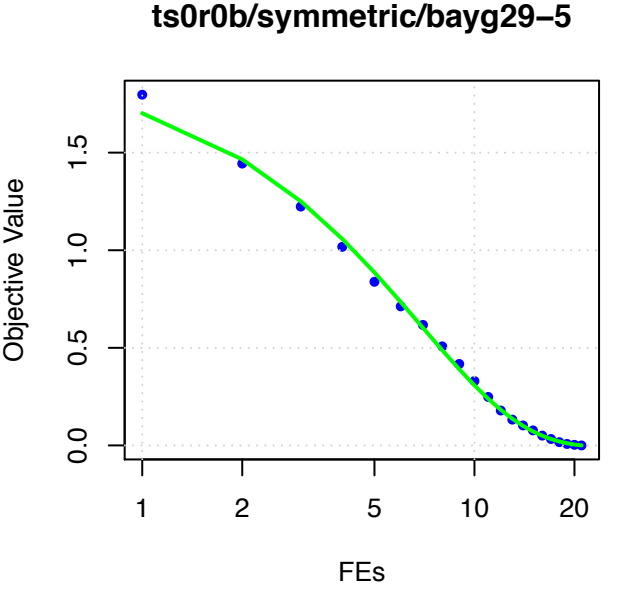
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0b/symmetric/bayg29−5
Objective Value
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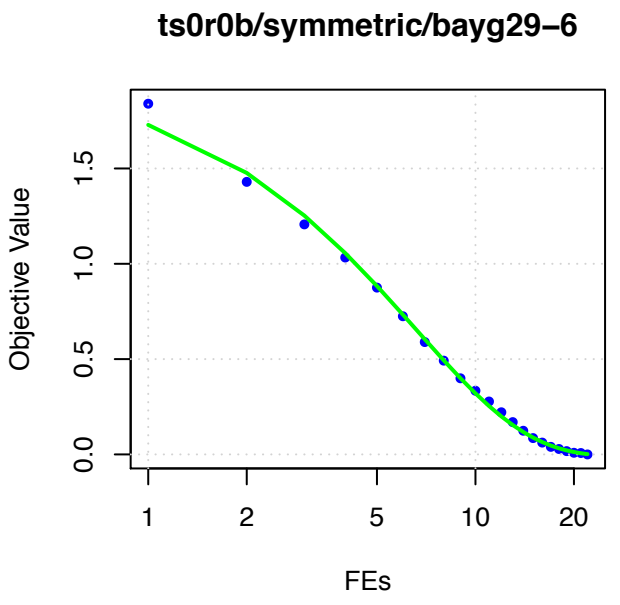
1.0
1.5
1
2
5
10
20
FEs


ts0r0b/symmetric/bayg29−6
Objective Value
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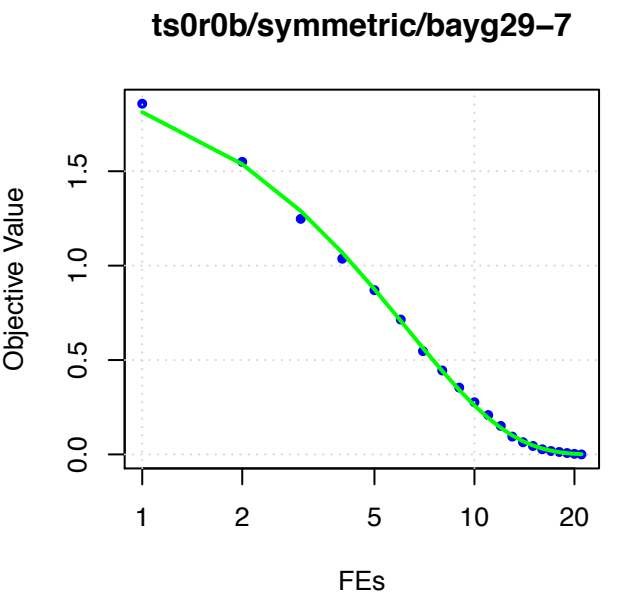
1.0
1.5
1
2
5
10
20
FEs


ts0r0b/symmetric/bayg29−7
Objective Value
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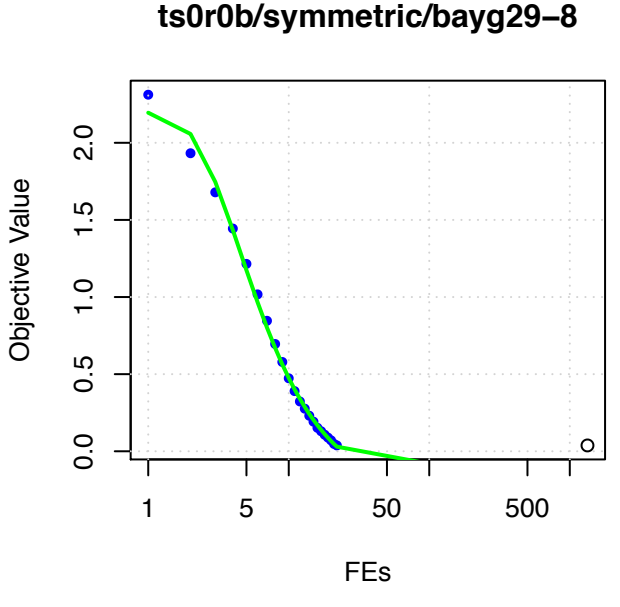
1.5
1
2
5
10
20
FEs


ts0r0b/symmetric/bayg29−8
Objective Value
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1.0
1.5
2.0
1
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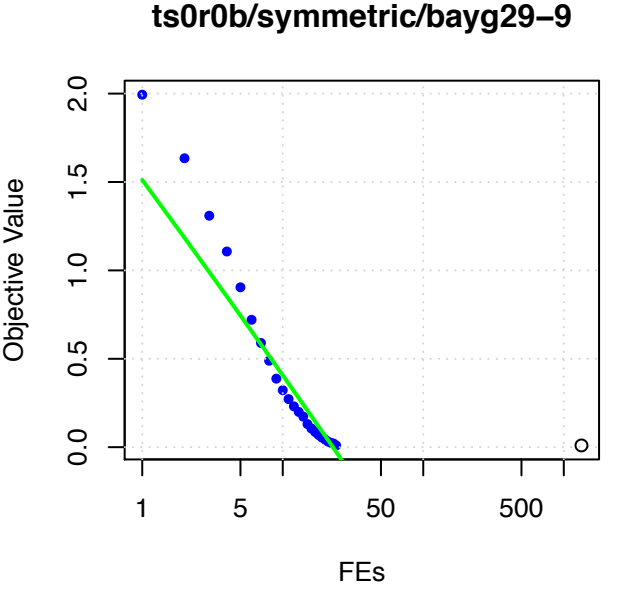
500
FEs


ts0r0b/symmetric/bayg29−9
Objective Value
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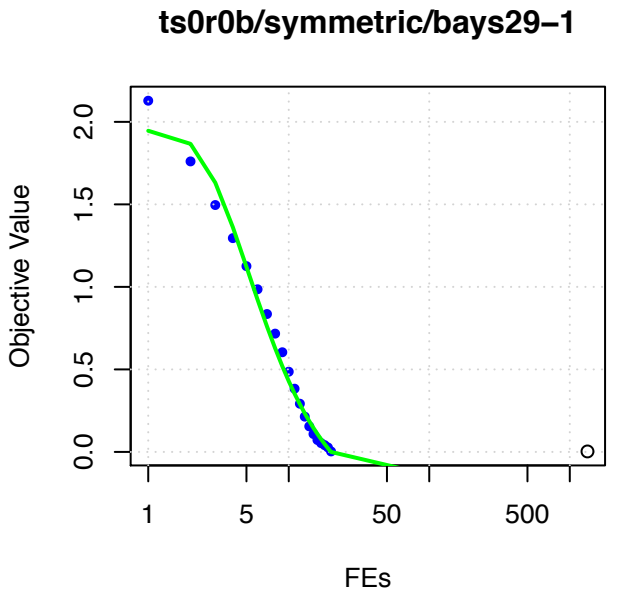
500
FEs


ts0r0b/symmetric/bays29−1
Objective Value
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1.0
1.5
2.0
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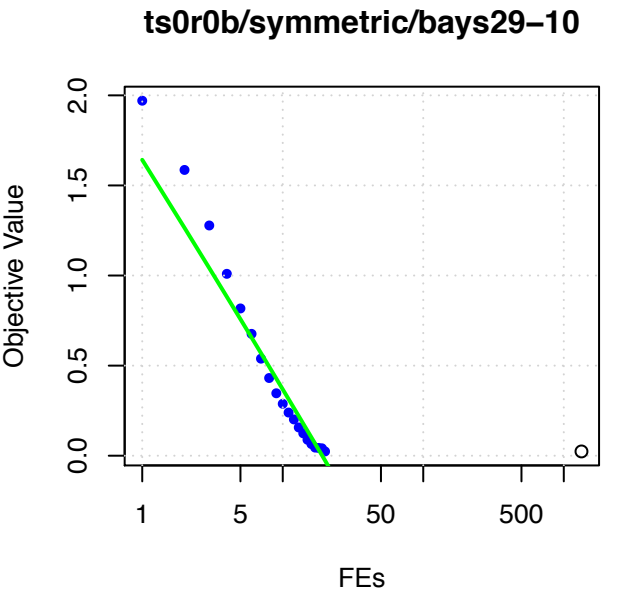
50
500
FEs


ts0r0b/symmetric/bays29−10
Objective Value
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1.5
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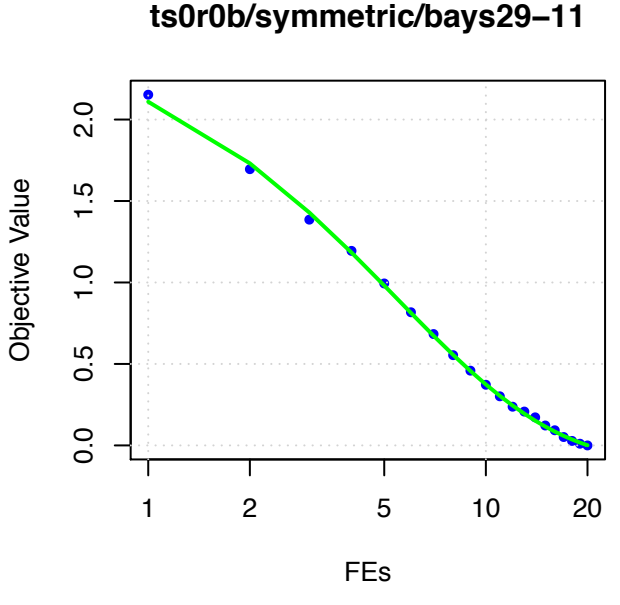
500
FEs


ts0r0b/symmetric/bays29−11
Objective Value
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1.0
1.5
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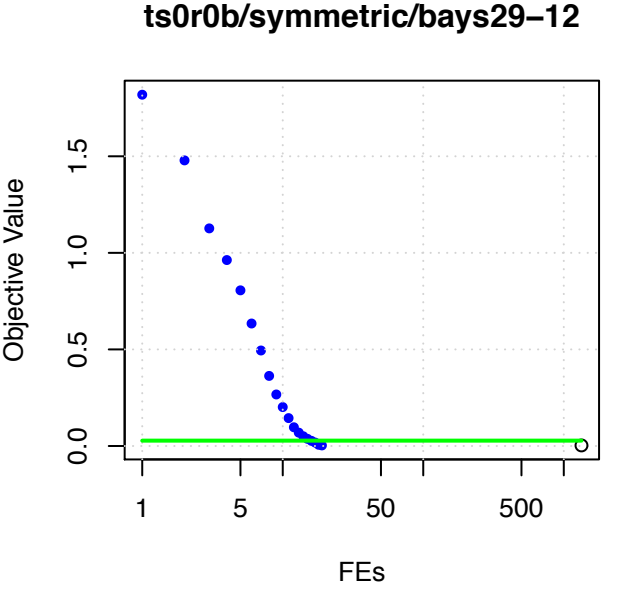
1
2
5
10
20
FEs


ts0r0b/symmetric/bays29−12
Objective Value
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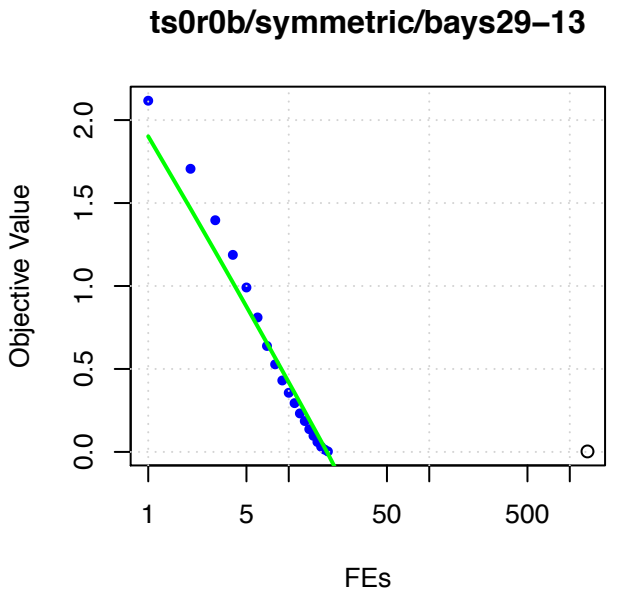
500
FEs


ts0r0b/symmetric/bays29−13
Objective Value
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1.0
1.5
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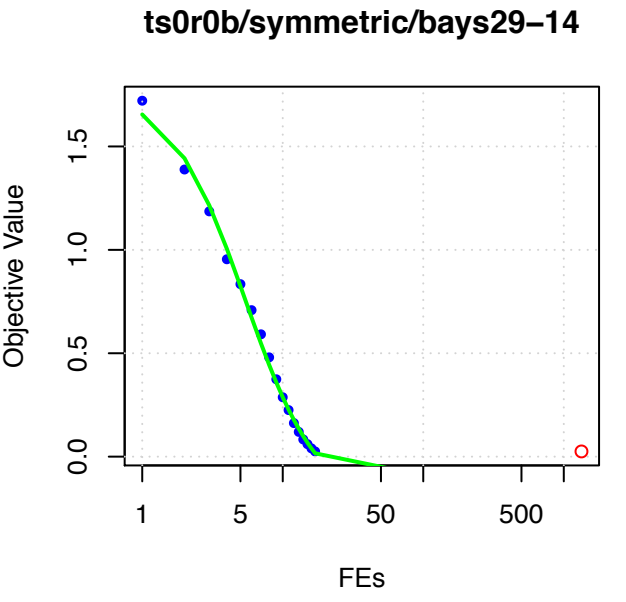
1
5
50
500
FEs


ts0r0b/symmetric/bays29−14
Objective Value
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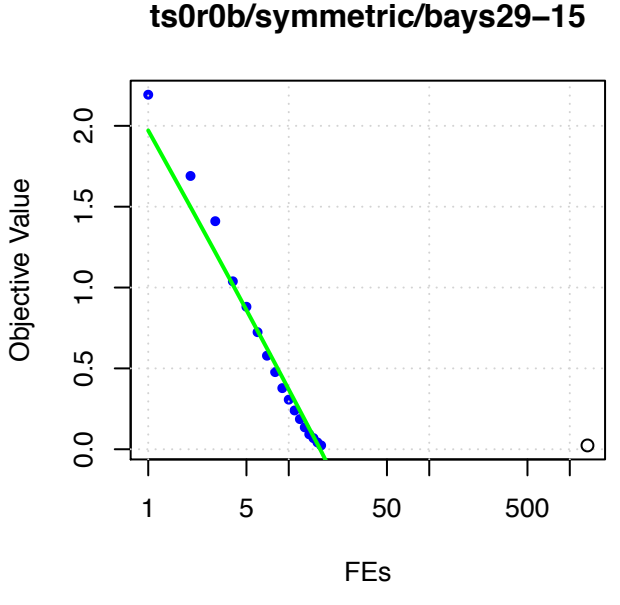
500
FEs


ts0r0b/symmetric/bays29−15
Objective Value
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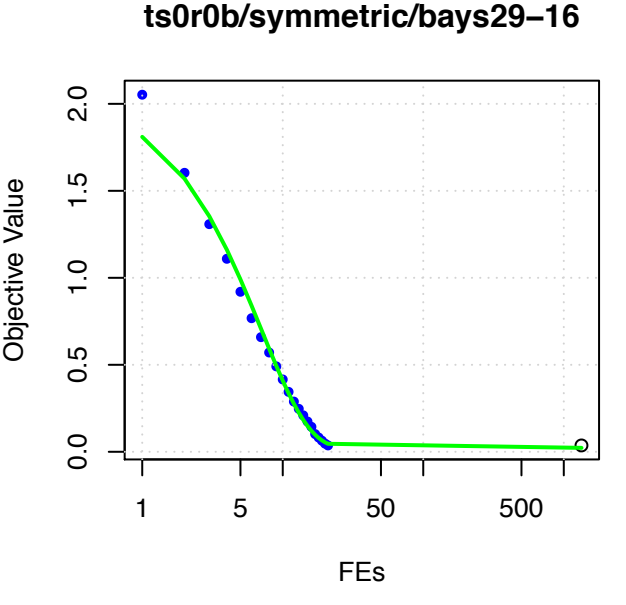
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0b/symmetric/bays29−16
Objective Value
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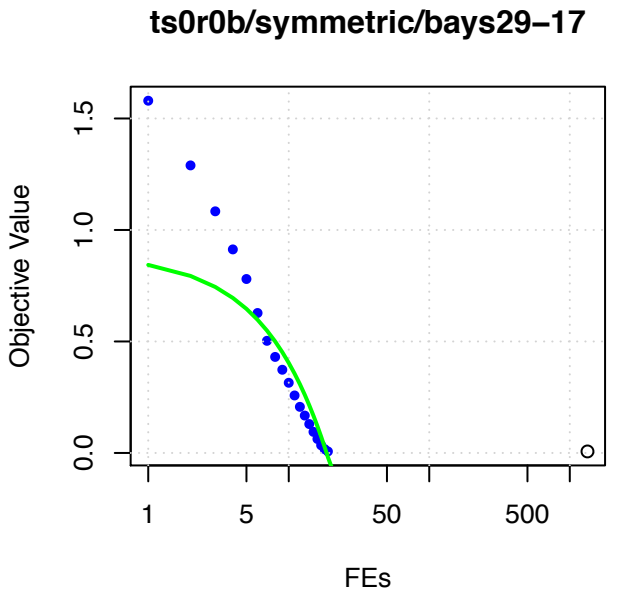
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0b/symmetric/bays29−17
Objective Value
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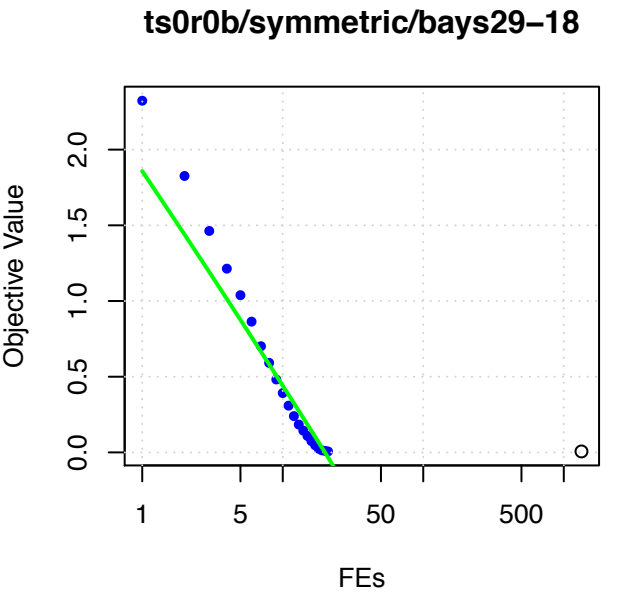
0.5
1.0
1.5
1
5
50
500
FEs


ts0r0b/symmetric/bays29−18
Objective Value
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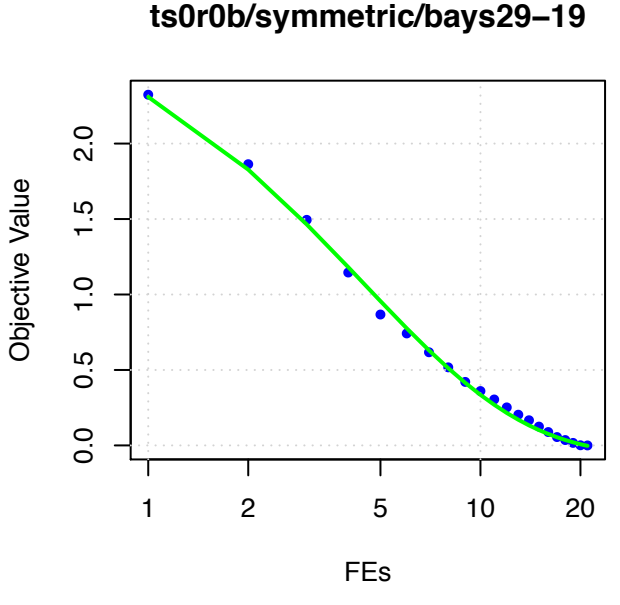
1.0
1.5
2.0
1
5
50
500
FEs


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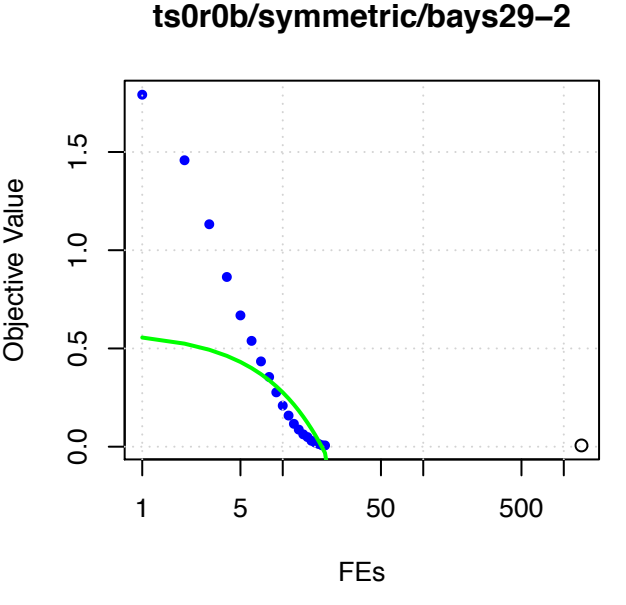
0.5
1.0
1.5
2.0
1
2
5
10
20
FEs


ts0r0b/symmetric/bays29−2
Objective Value
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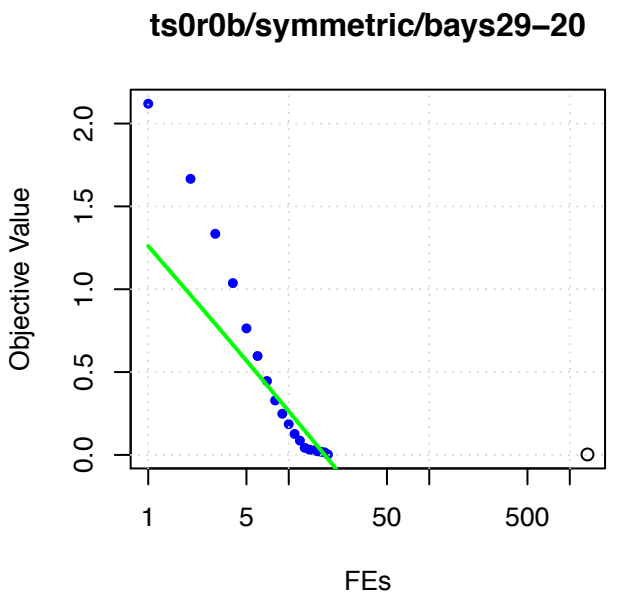
0.5
1.0
1.5
1
5
50
500
FEs


ts0r0b/symmetric/bays29−20
Objective Value
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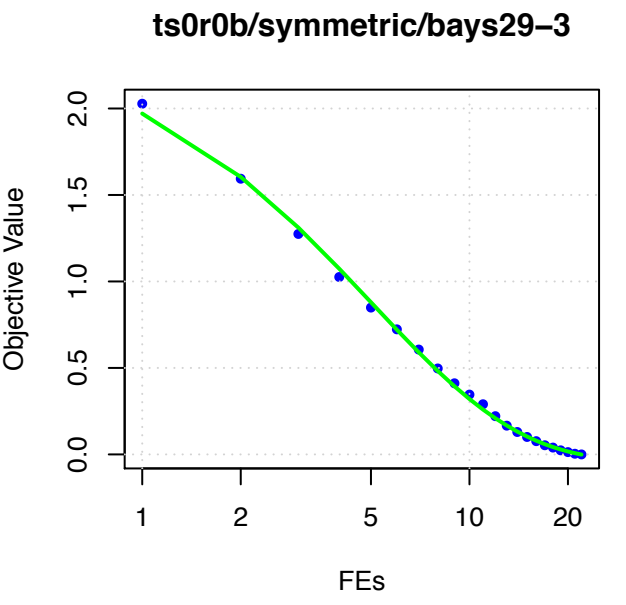
0.5
1.0
1.5
2.0
1
5
50
500
FEs


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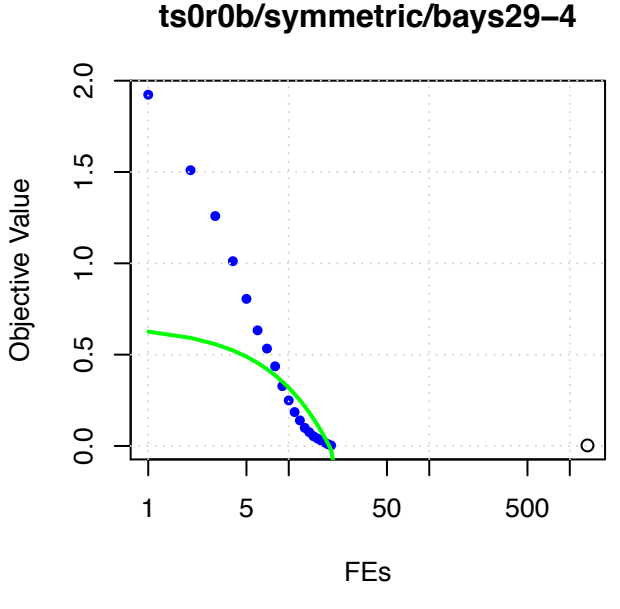
0.5
1.0
1.5
2.0
1
2
5
10
20
FEs


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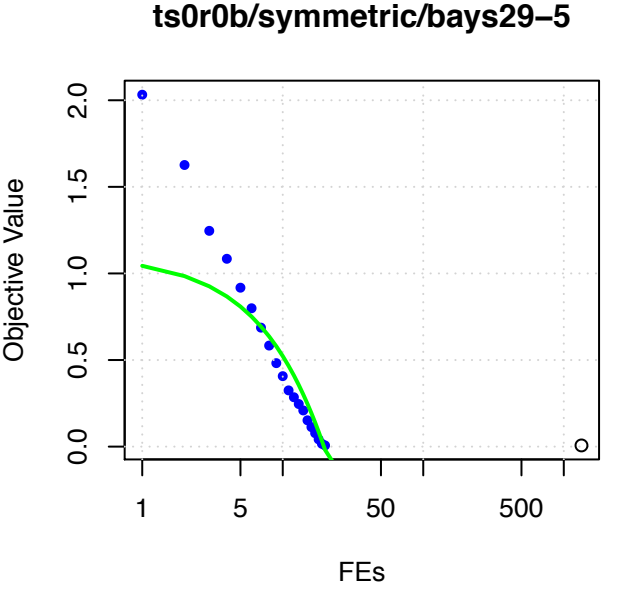
0.5
1.0
1.5
2.0
1
5
50
500
FEs


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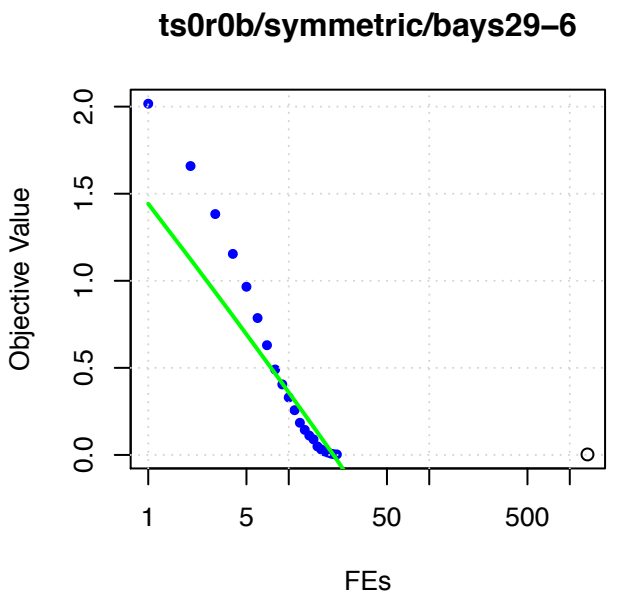
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0b/symmetric/bays29−6
Objective Value
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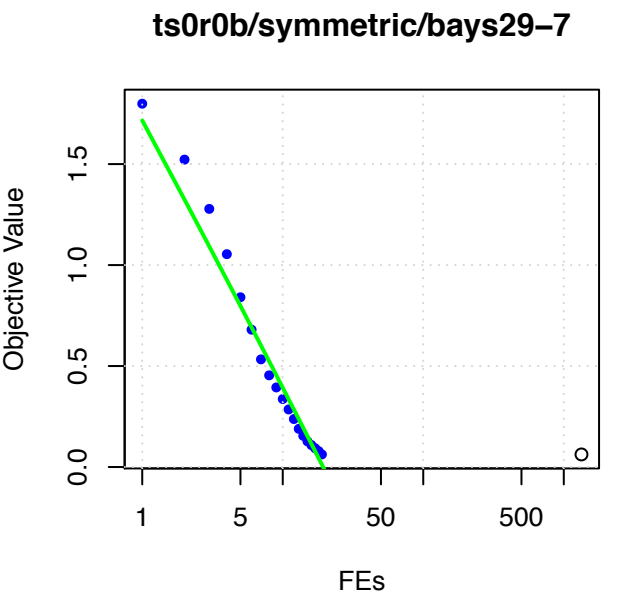
1.0
1.5
2.0
1
5
50
500
FEs


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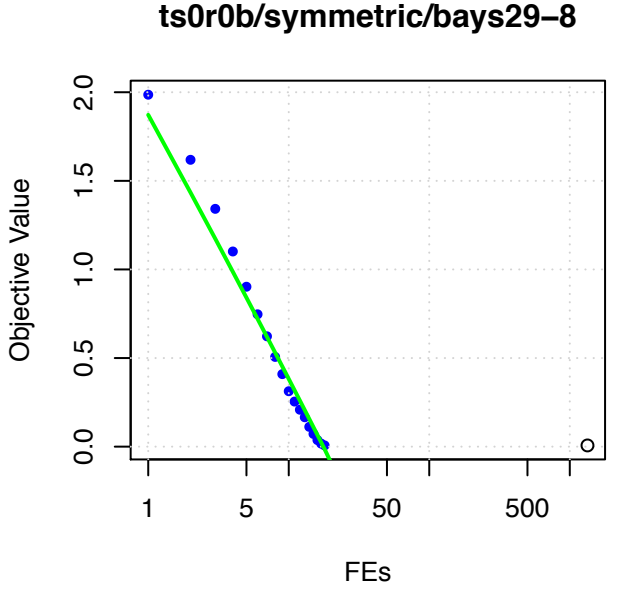
0.5
1.0
1.5
1
5
50
500
FEs


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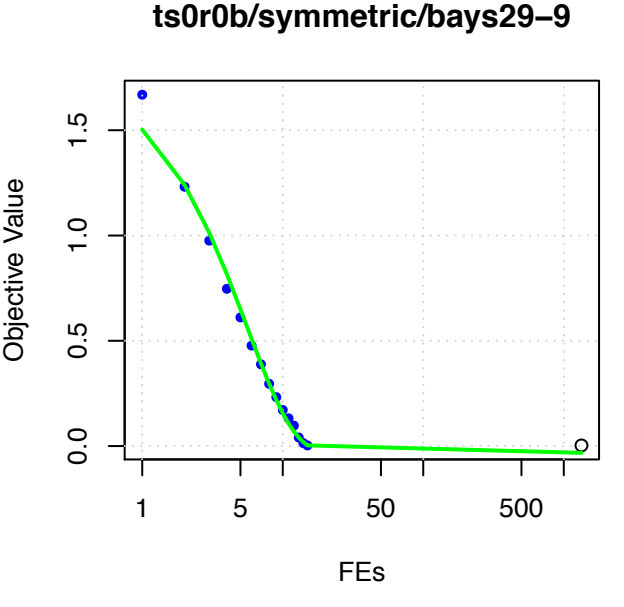
0.5
1.0
1.5
2.0
1
5
50
500
FEs


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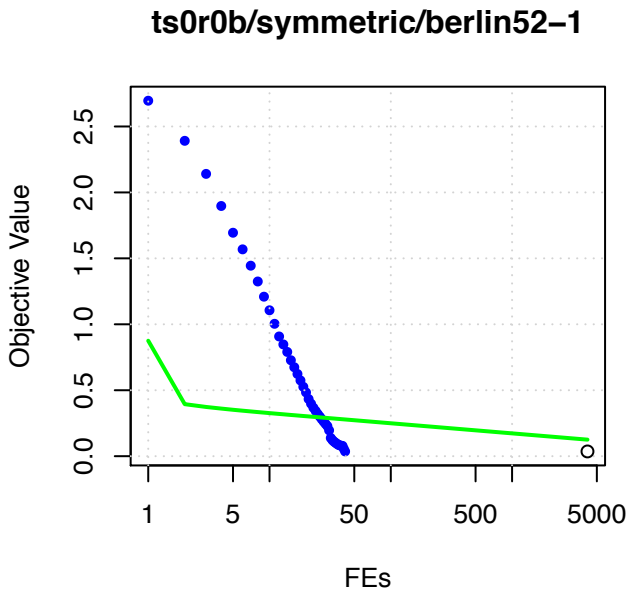
0.5
1.0
1.5
1
5
50
500
FEs


ts0r0b/symmetric/berlin52−1
Objective Value
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1.0
1.5
2.0
2.5
1
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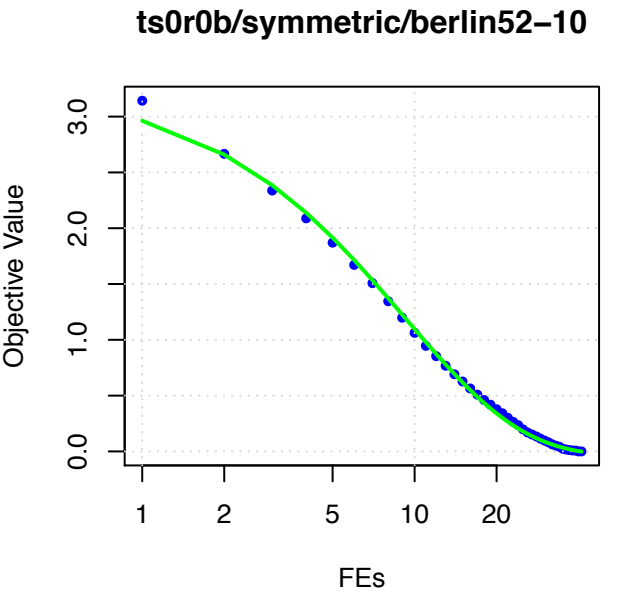
50
500
5000
FEs


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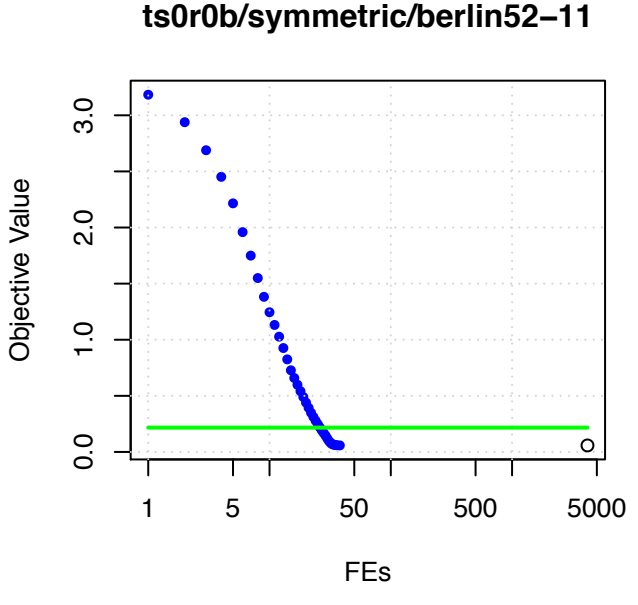
1.0
2.0
3.0
1
2
5
10
20
FEs


ts0r0b/symmetric/berlin52−11
Objective Value
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2.0
3.0
1
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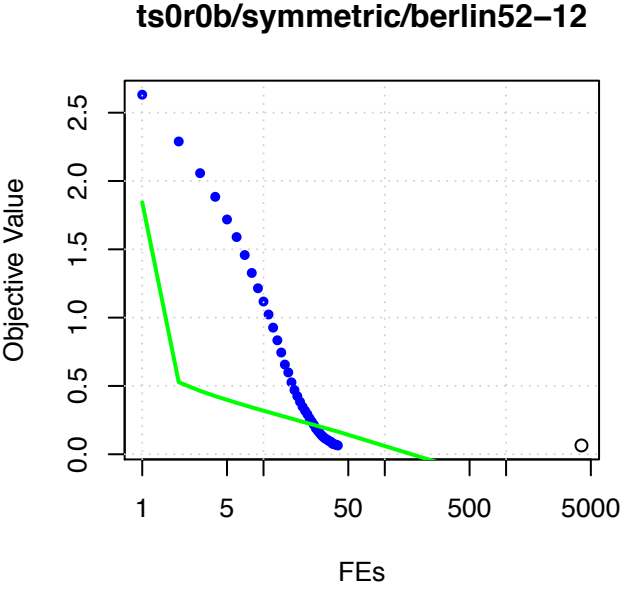
50
500
5000
FEs


ts0r0b/symmetric/berlin52−12
Objective Value
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2.0
2.5
1
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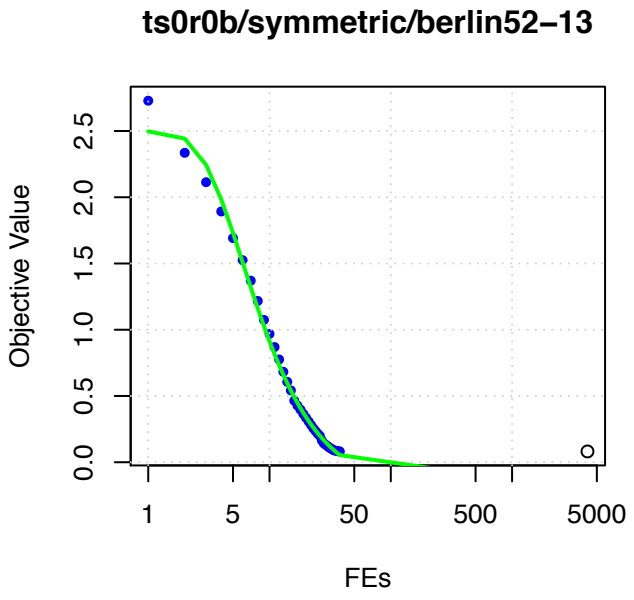
500
5000
FEs


ts0r0b/symmetric/berlin52−13
Objective Value
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1.5
2.0
2.5
1
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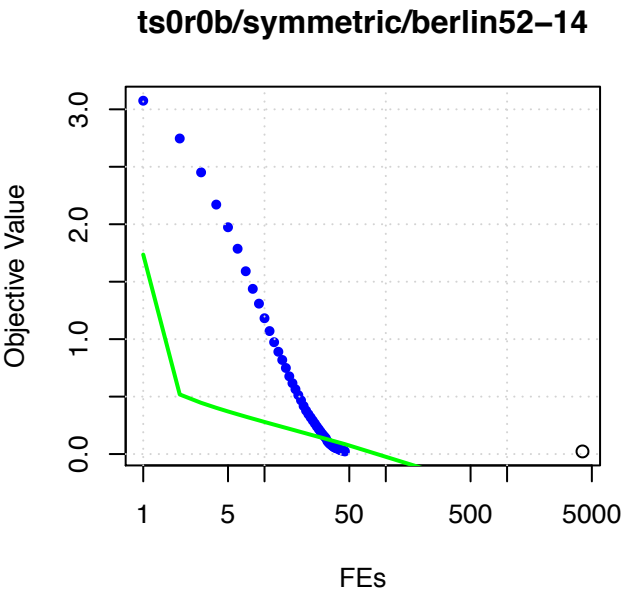
50
500
5000
FEs


ts0r0b/symmetric/berlin52−14
Objective Value
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2.0
3.0
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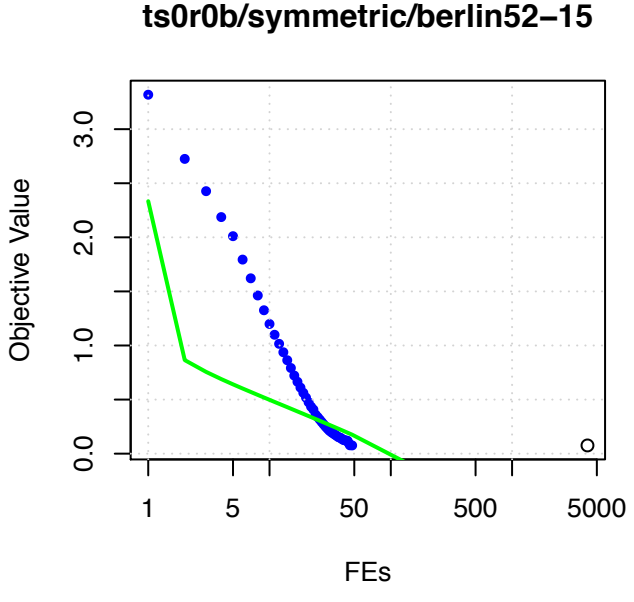
500
5000
FEs


ts0r0b/symmetric/berlin52−15
Objective Value
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2.0
3.0
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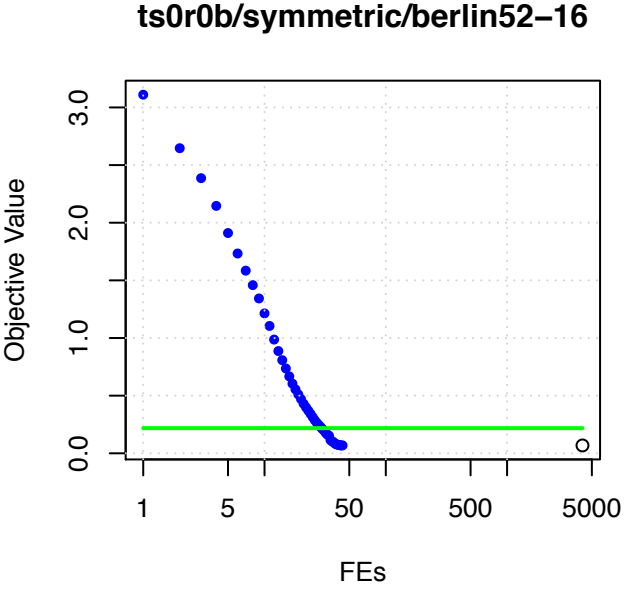
500
5000
FEs


ts0r0b/symmetric/berlin52−16
Objective Value
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2.0
3.0
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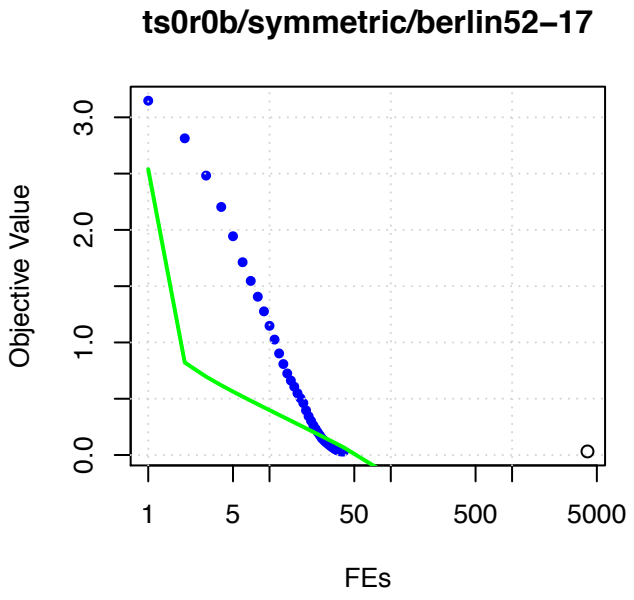
500
5000
FEs


ts0r0b/symmetric/berlin52−17
Objective Value
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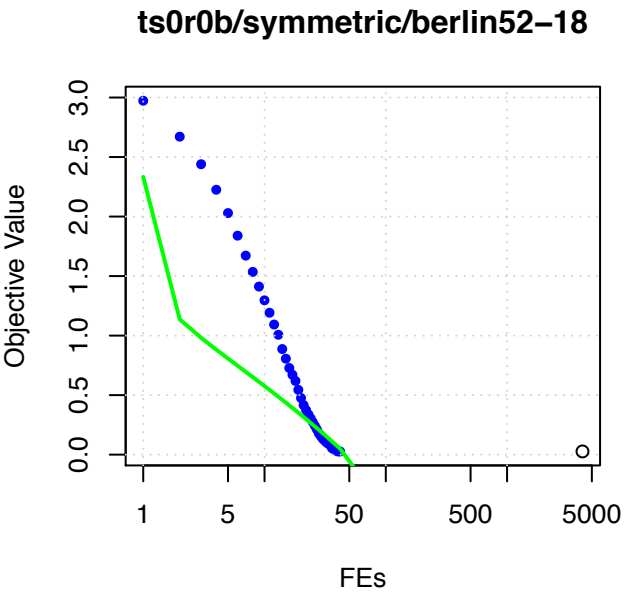
2.0
3.0
1
5
50
500
5000
FEs


ts0r0b/symmetric/berlin52−18
Objective Value
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1.0
1.5
2.0
2.5
3.0
1
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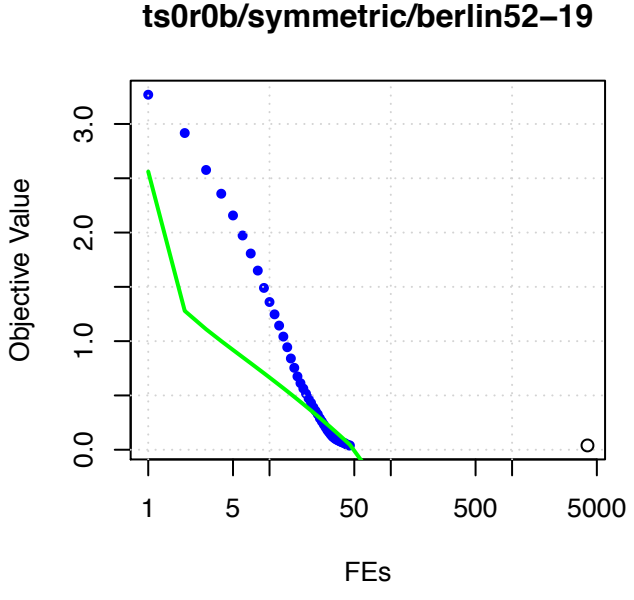
50
500
5000
FEs


ts0r0b/symmetric/berlin52−19
Objective Value
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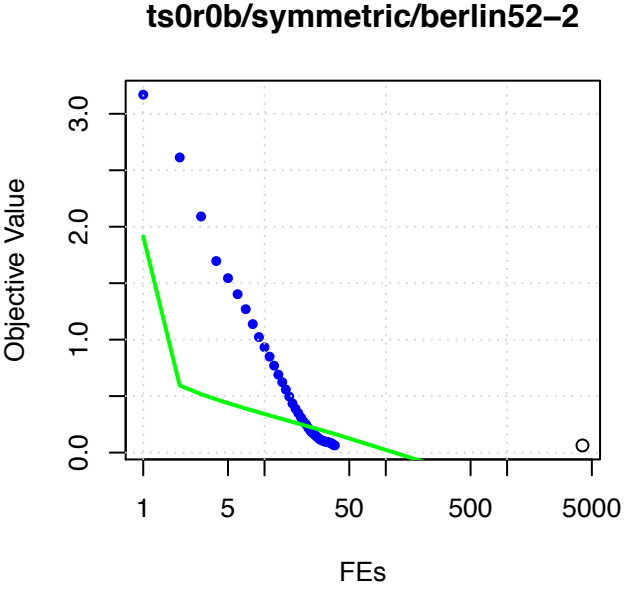
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts0r0b/symmetric/berlin52−2
Objective Value
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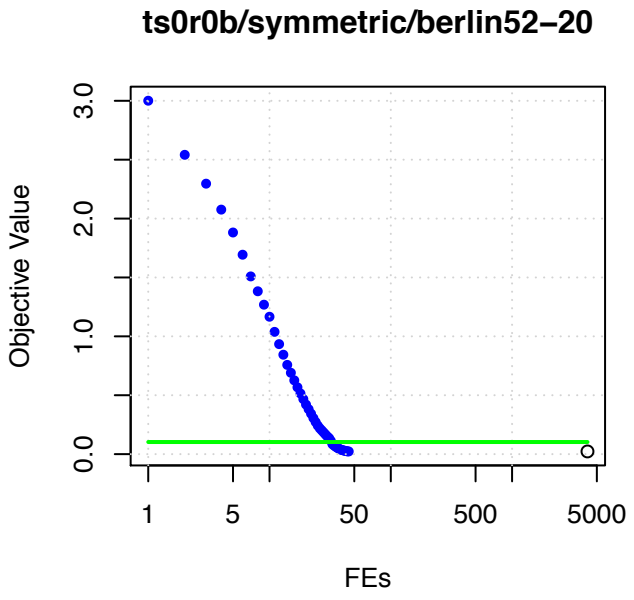
2.0
3.0
1
5
50
500
5000
FEs


ts0r0b/symmetric/berlin52−20
Objective Value
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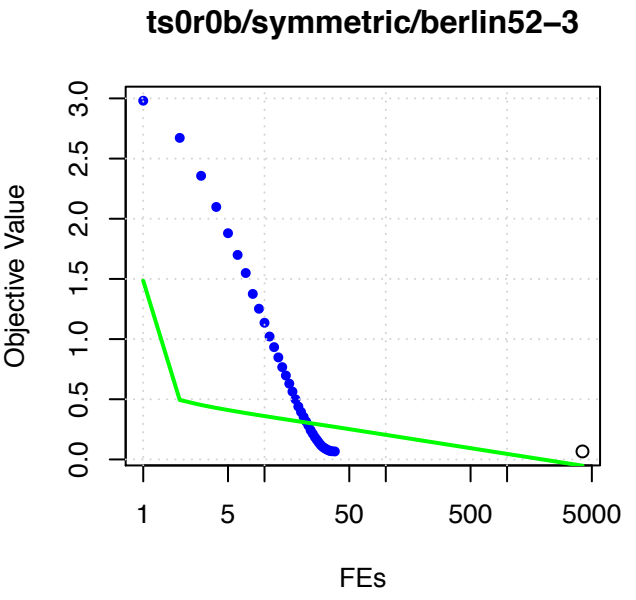
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts0r0b/symmetric/berlin52−3
Objective Value
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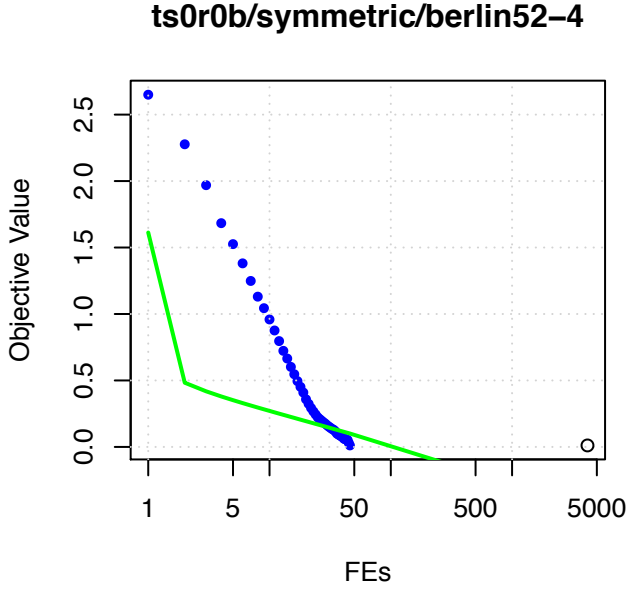
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts0r0b/symmetric/berlin52−4
Objective Value
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0.5
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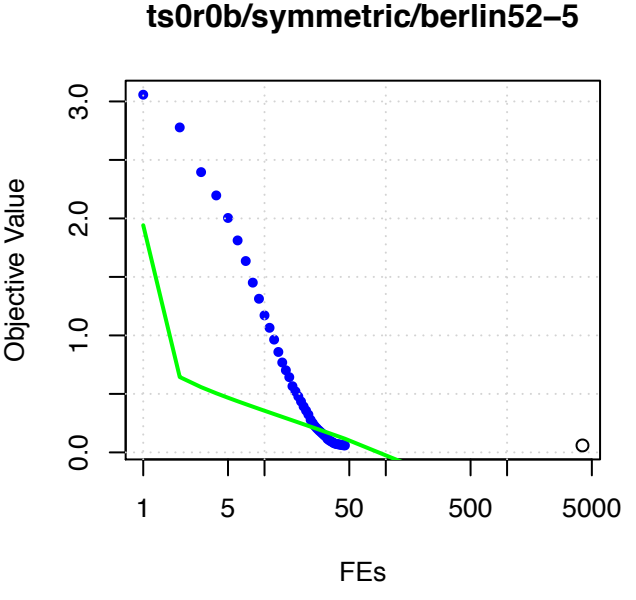
1.5
2.0
2.5
1
5
50
500
5000
FEs


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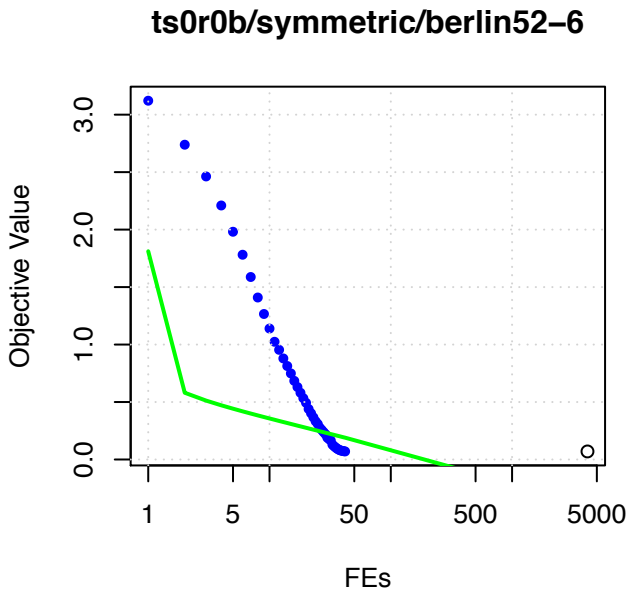
1.0
2.0
3.0
1
5
50
500
5000
FEs


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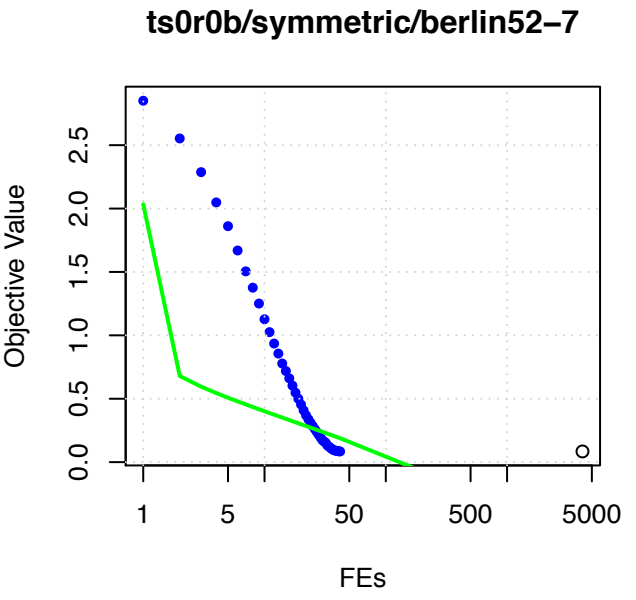
1.0
2.0
3.0
1
5
50
500
5000
FEs


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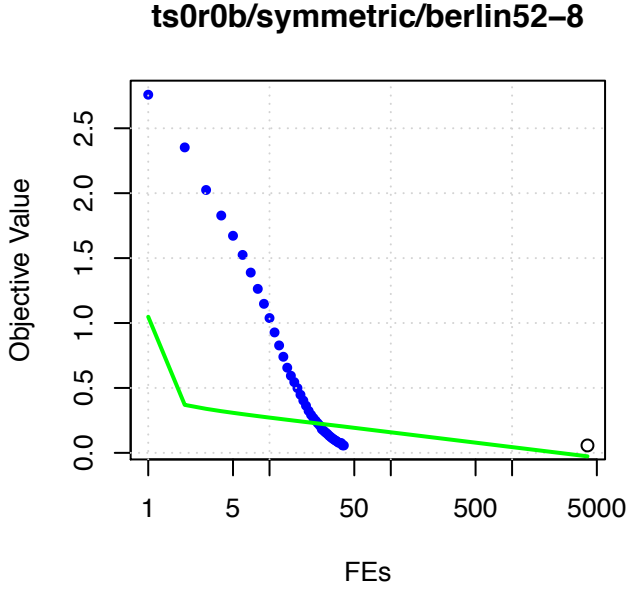
0.5
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0b/symmetric/berlin52−8
Objective Value
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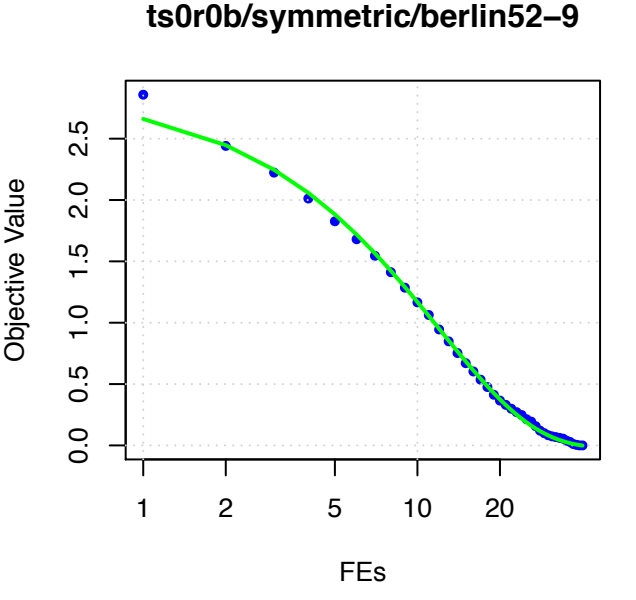
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


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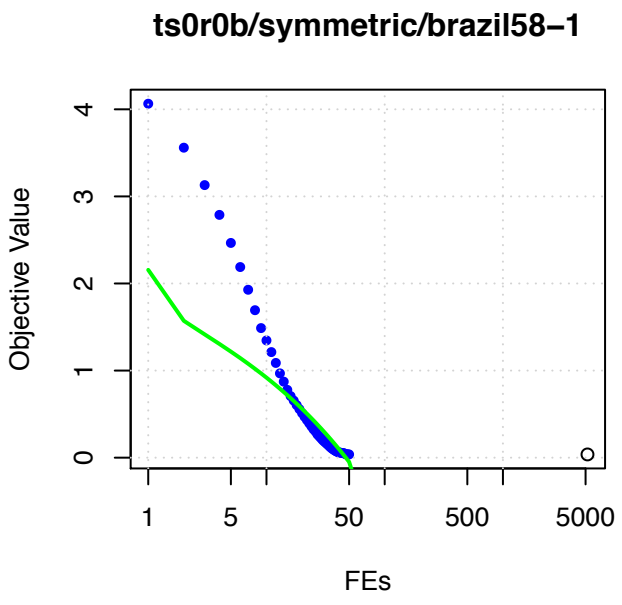
1.0
1.5
2.0
2.5
1
2
5
10
20
FEs


ts0r0b/symmetric/brazil58−1
Objective Value
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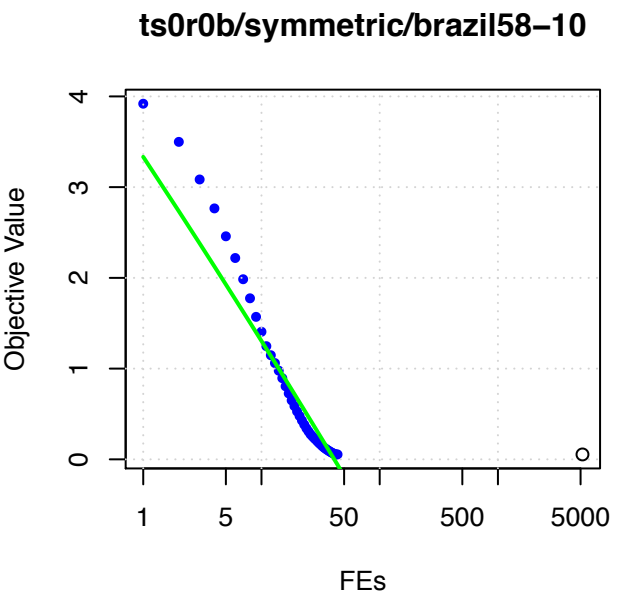
1
2
3
4
1
5
50
500
5000
FEs


ts0r0b/symmetric/brazil58−10
Objective Value
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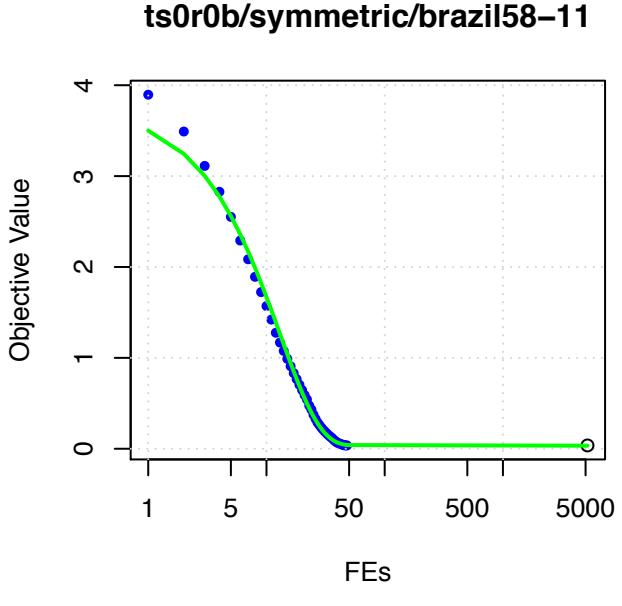
FEs


ts0r0b/symmetric/brazil58−11
Objective Value
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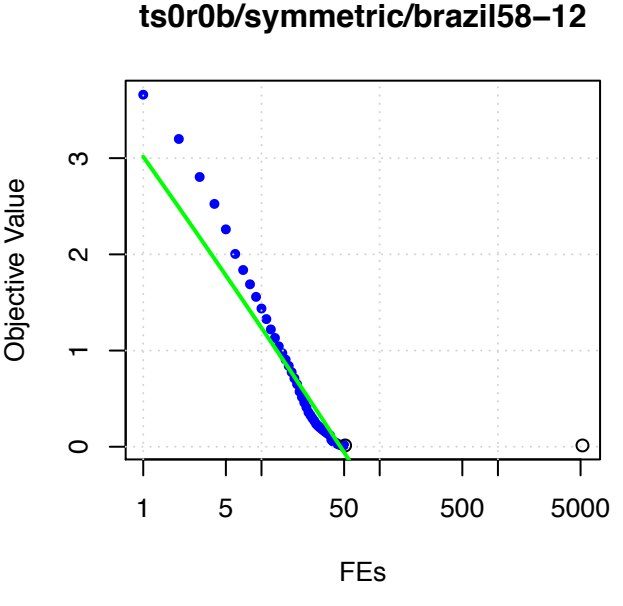
FEs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Objective Value
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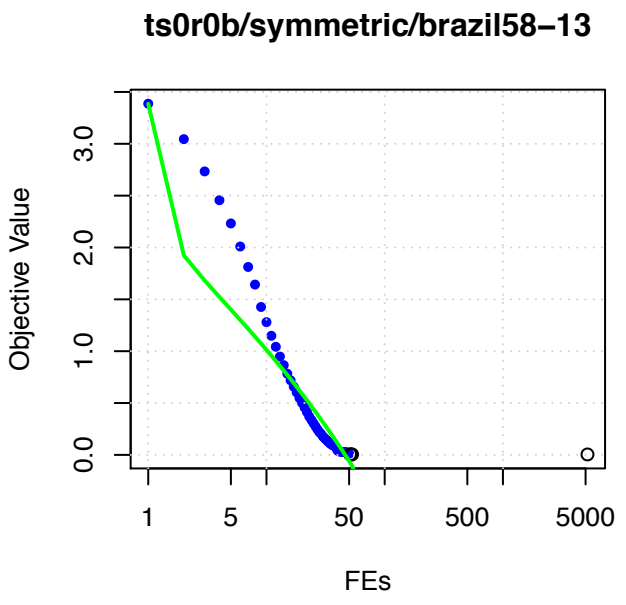
FEs


ts0r0b/symmetric/brazil58−13
Objective Value
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1.0
2.0
3.0
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5
50
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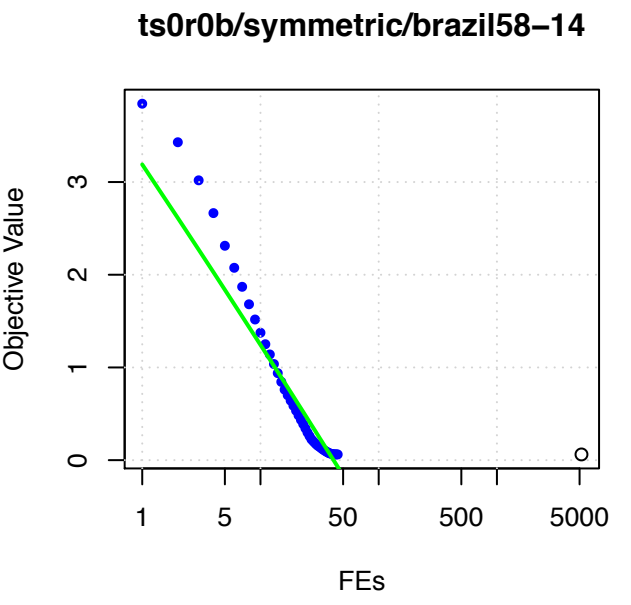
5000
FEs


ts0r0b/symmetric/brazil58−14
Objective Value
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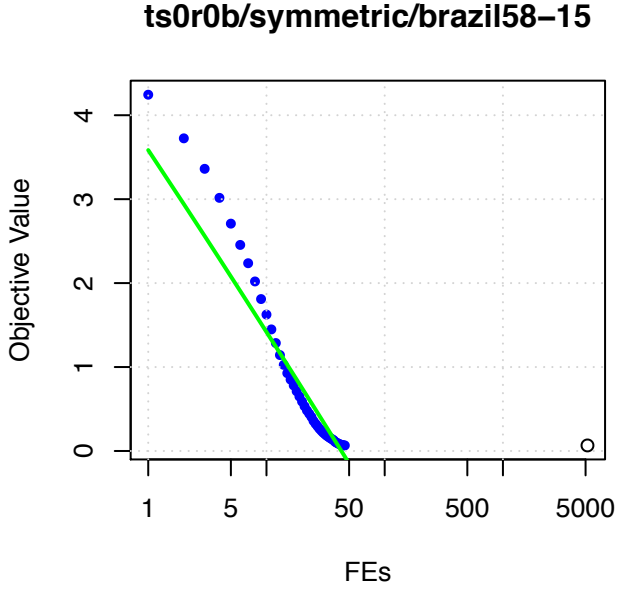
FEs


ts0r0b/symmetric/brazil58−15
Objective Value
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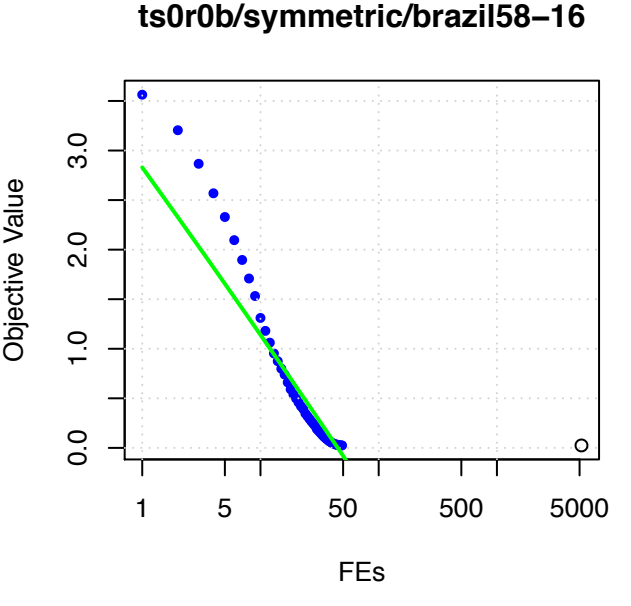
5000
FEs


ts0r0b/symmetric/brazil58−16
Objective Value
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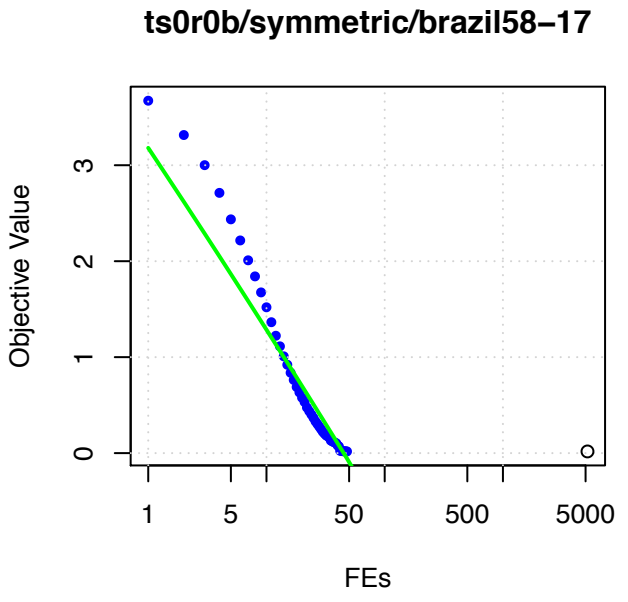
FEs


ts0r0b/symmetric/brazil58−17
Objective Value
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2
3
1
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50
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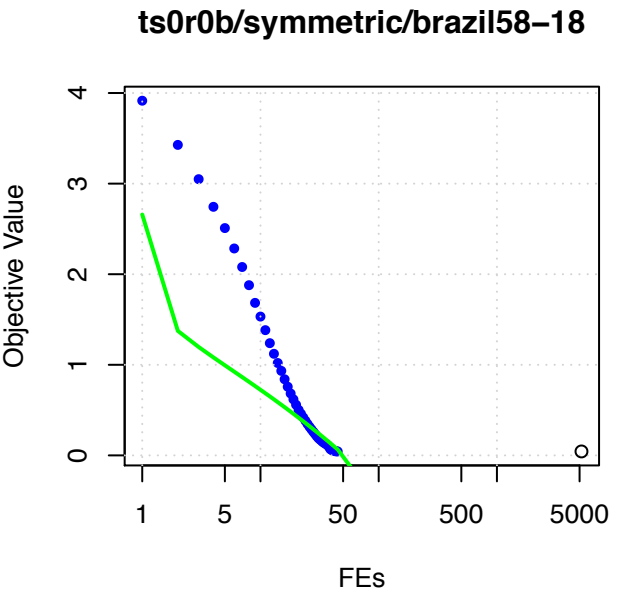
5000
FEs


ts0r0b/symmetric/brazil58−18
Objective Value
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3
4
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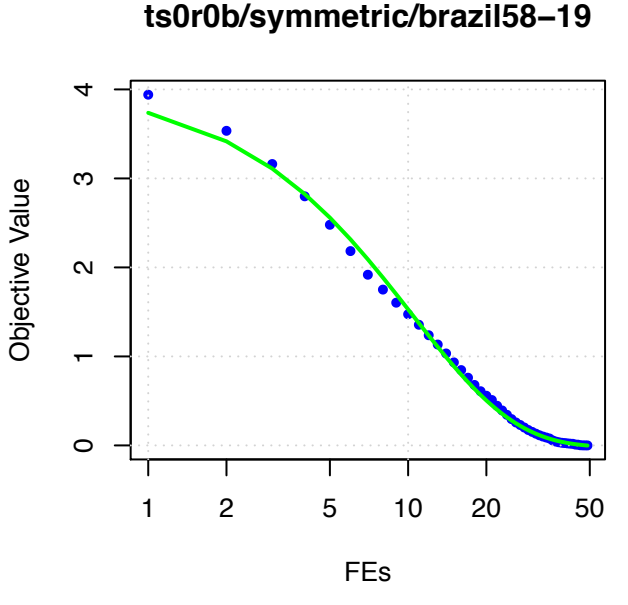
FEs


ts0r0b/symmetric/brazil58−19
Objective Value
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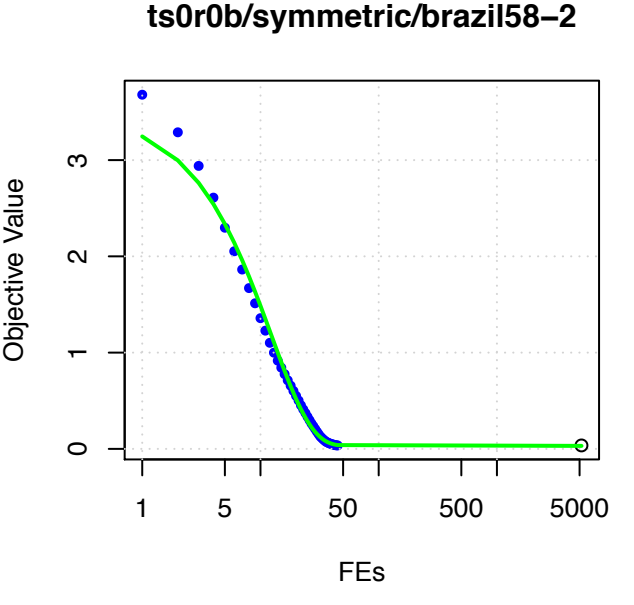
2
3
4
1
2
5
10
20
50
FEs


ts0r0b/symmetric/brazil58−2
Objective Value
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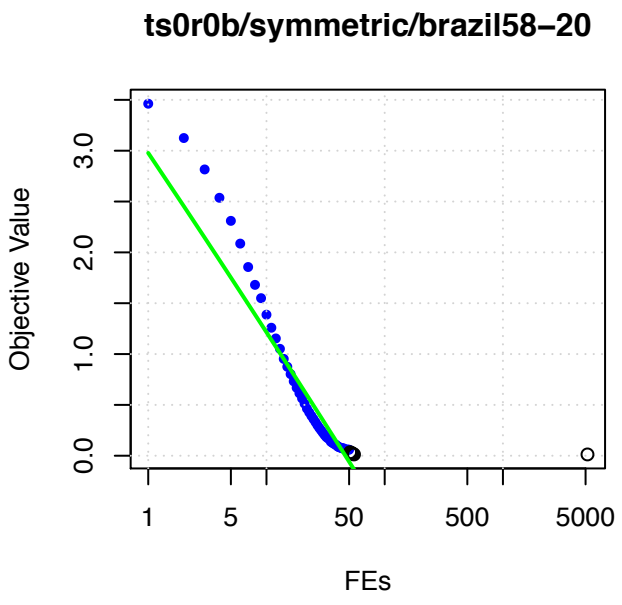
1
5
50
500
5000
FEs


ts0r0b/symmetric/brazil58−20
Objective Value
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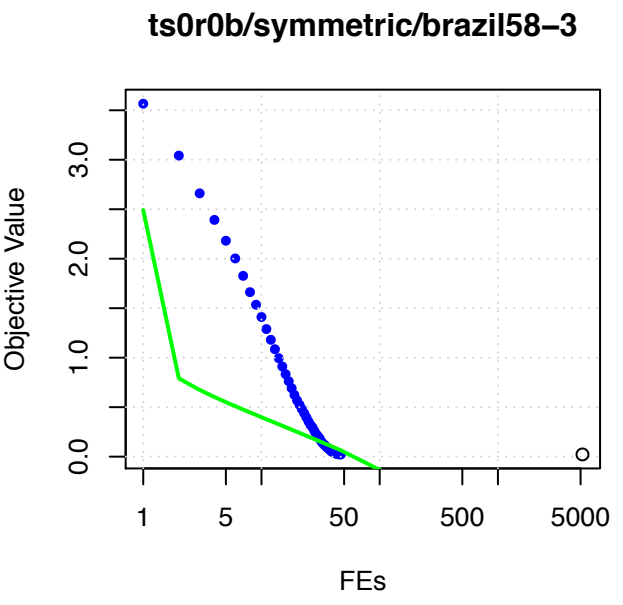
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts0r0b/symmetric/brazil58−3
Objective Value
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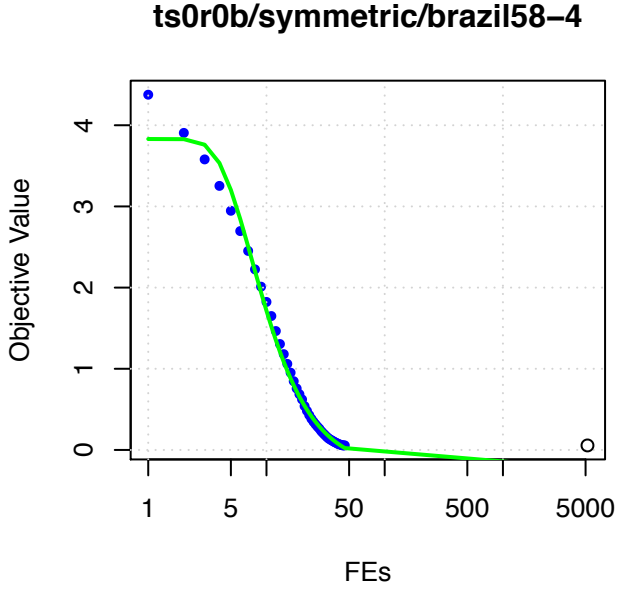
2.0
3.0
1
5
50
500
5000
FEs


ts0r0b/symmetric/brazil58−4
Objective Value
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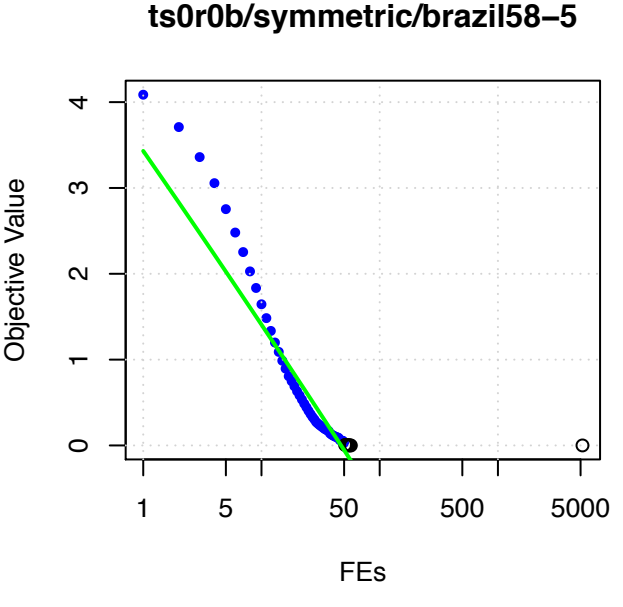
1
2
3
4
1
5
50
500
5000
FEs


ts0r0b/symmetric/brazil58−5
Objective Value
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3
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1
5
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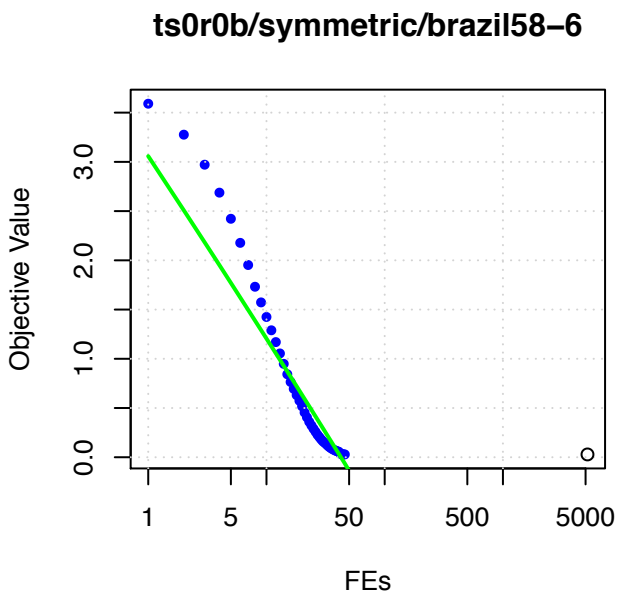
500
5000
FEs


ts0r0b/symmetric/brazil58−6
Objective Value
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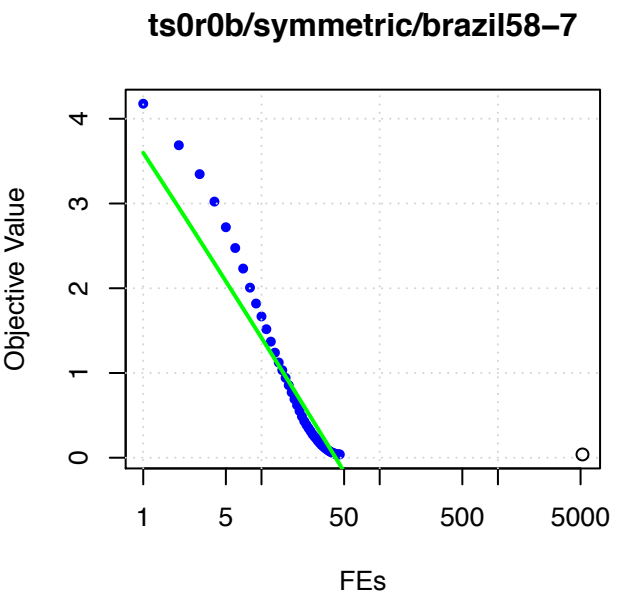
2.0
3.0
1
5
50
500
5000
FEs


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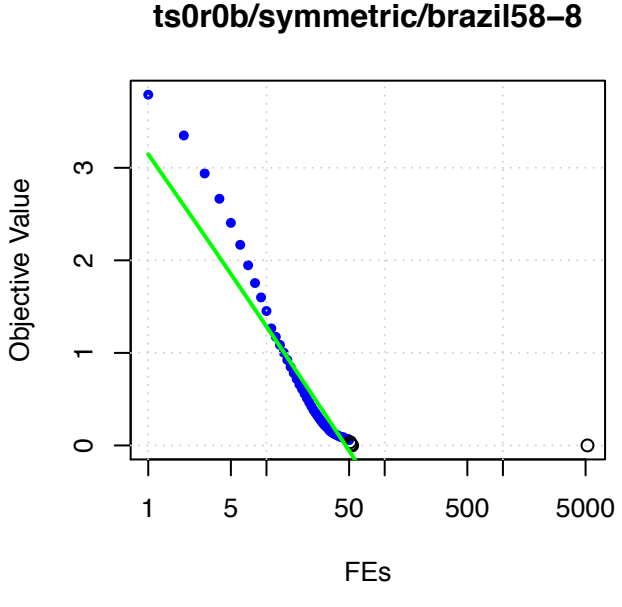
1
2
3
4
1
5
50
500
5000
FEs


ts0r0b/symmetric/brazil58−8
Objective Value
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2
3
1
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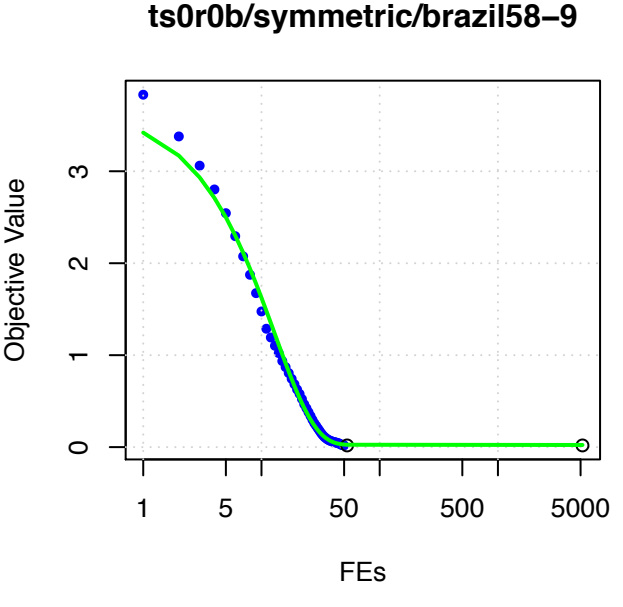
50
500
5000
FEs


ts0r0b/symmetric/brazil58−9
Objective Value
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3
1
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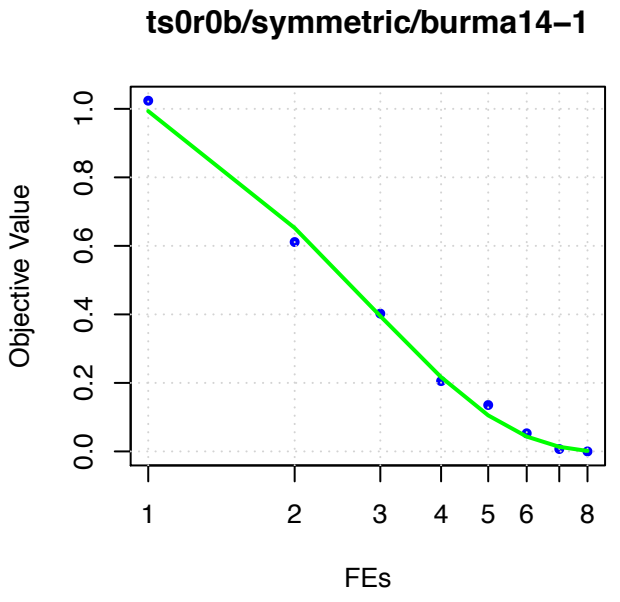
5000
FEs


ts0r0b/symmetric/burma14−1
Objective Value
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1.0
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2
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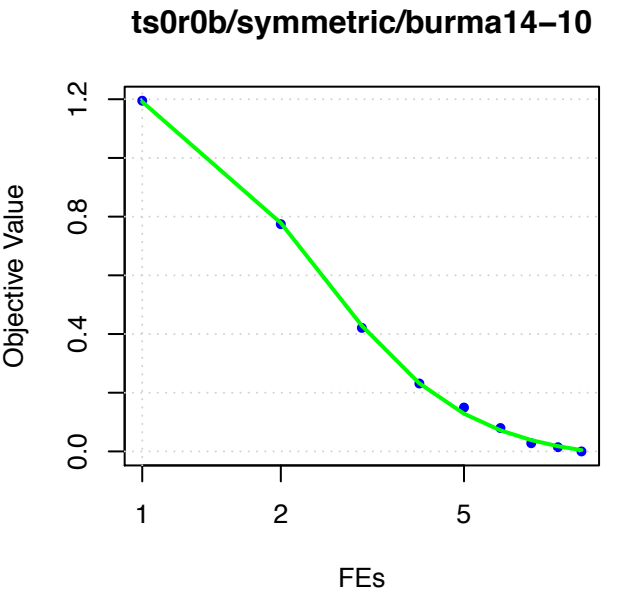
5
6
8
FEs


ts0r0b/symmetric/burma14−10
Objective Value
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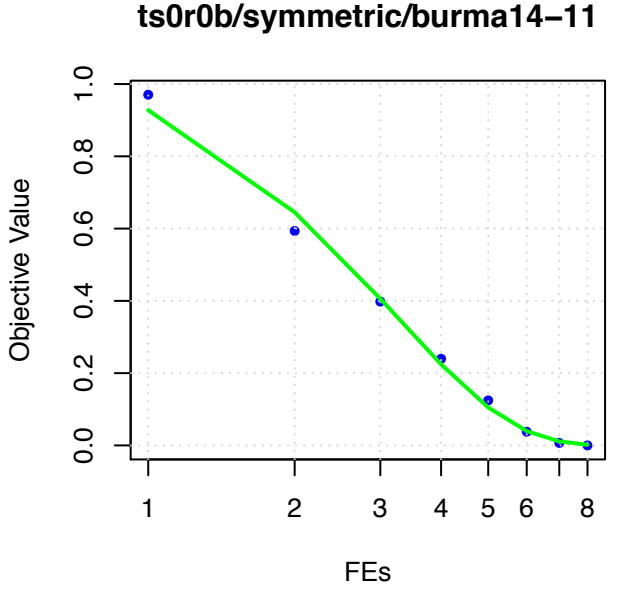
0.8
1.2
1
2
5
FEs


ts0r0b/symmetric/burma14−11
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0.4
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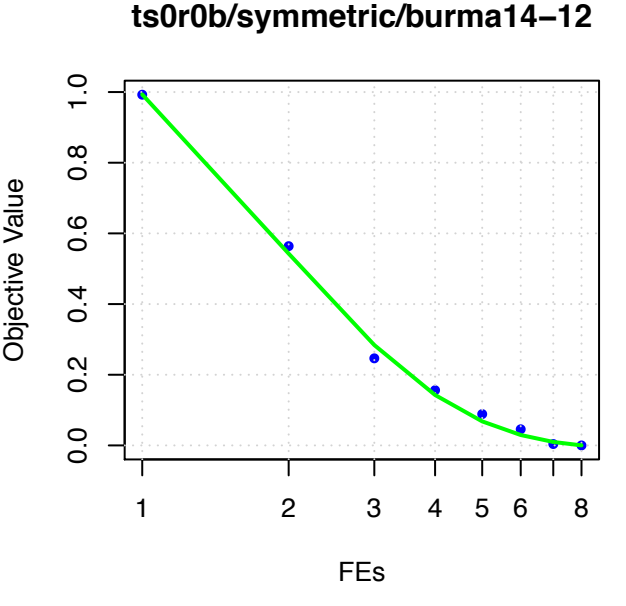
0.8
1.0
1
2
3
4
5
6
8
FEs


ts0r0b/symmetric/burma14−12
Objective Value
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0.6
0.8
1.0
1
2
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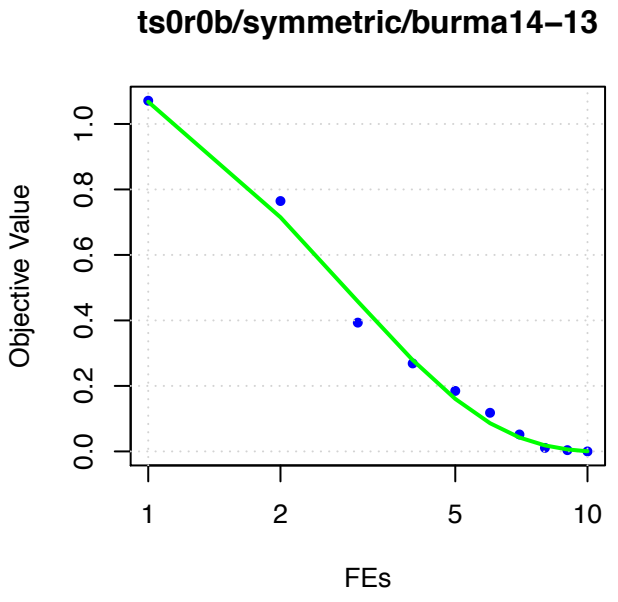
5
6
8
FEs


ts0r0b/symmetric/burma14−13
Objective Value
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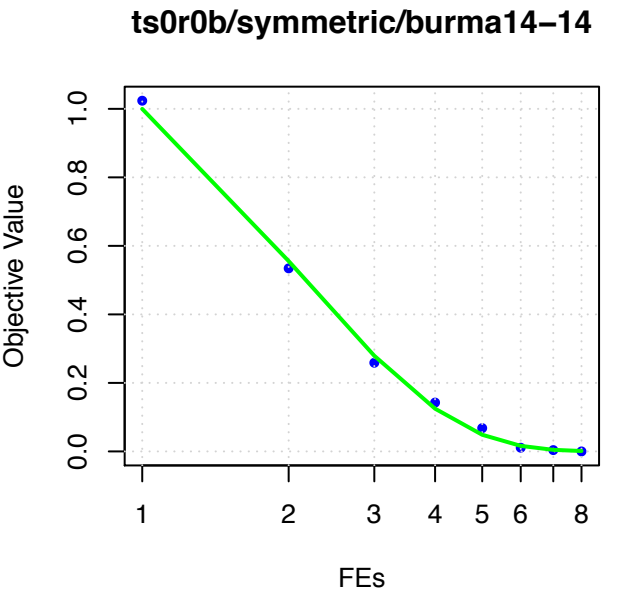
0.4
0.6
0.8
1.0
1
2
5
10
FEs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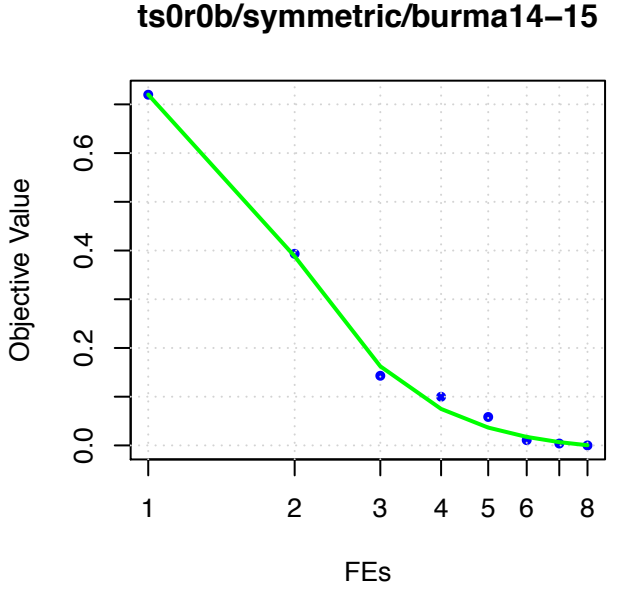
8
FEs


ts0r0b/symmetric/burma14−15
Objective Value
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0.6
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2
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6
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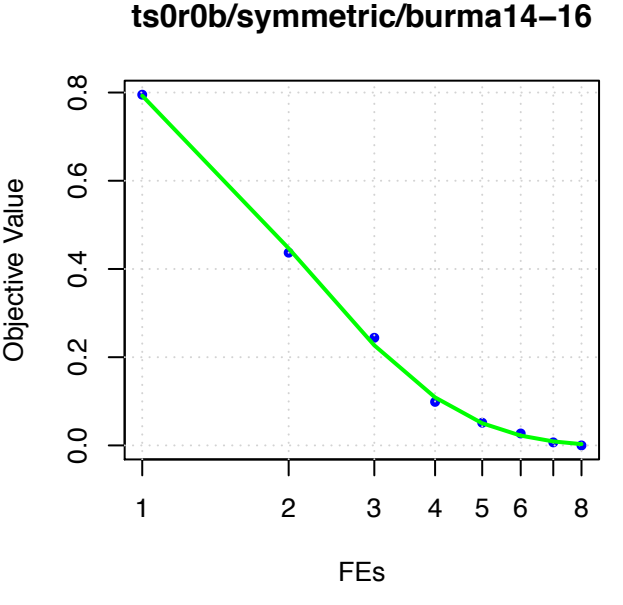
FEs


ts0r0b/symmetric/burma14−16
Objective Value
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0.6
0.8
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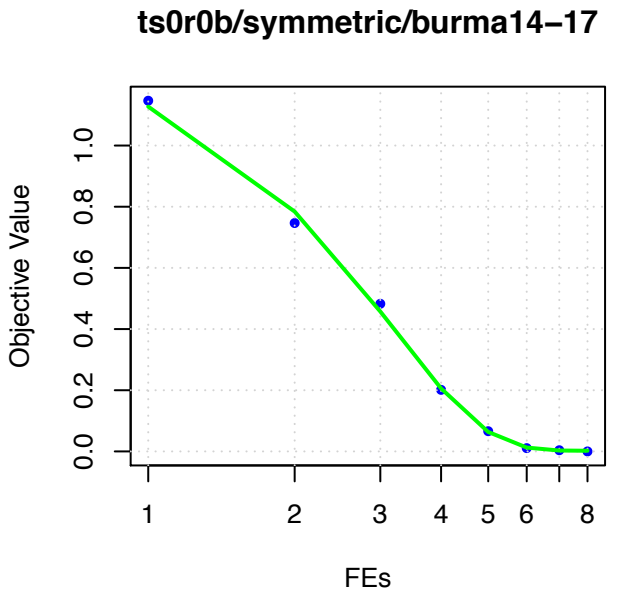
5
6
8
FEs


ts0r0b/symmetric/burma14−17
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0.8
1.0
1
2
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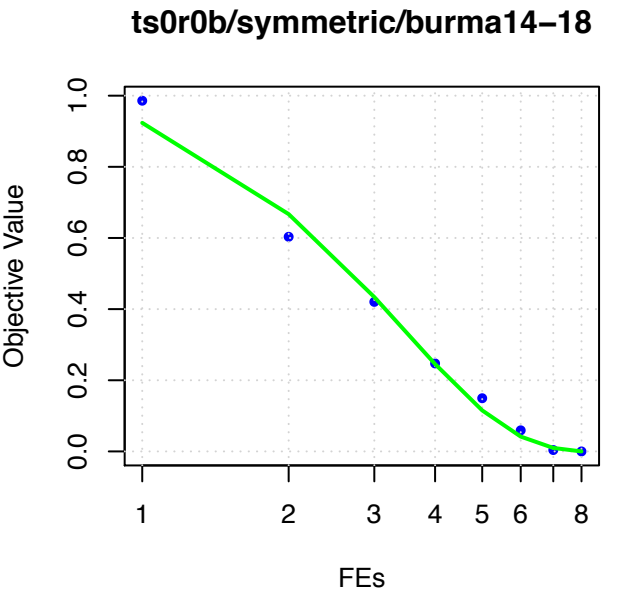
6
8
FEs


ts0r0b/symmetric/burma14−18
Objective Value
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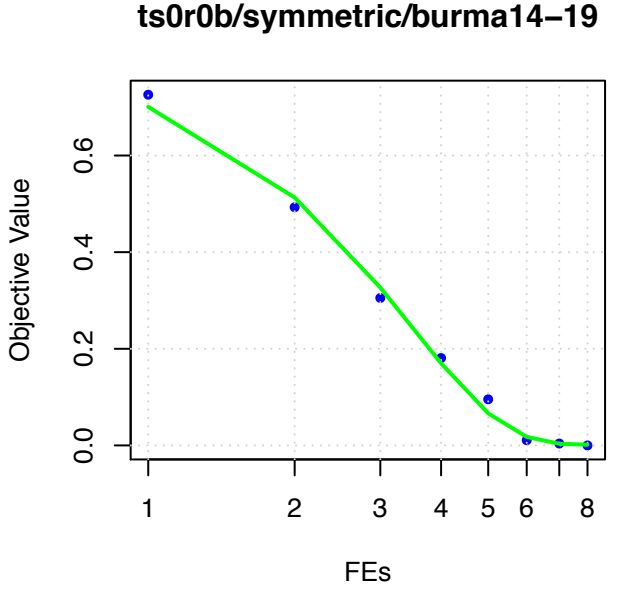
6
8
FEs


ts0r0b/symmetric/burma14−19
Objective Value
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0.4
0.6
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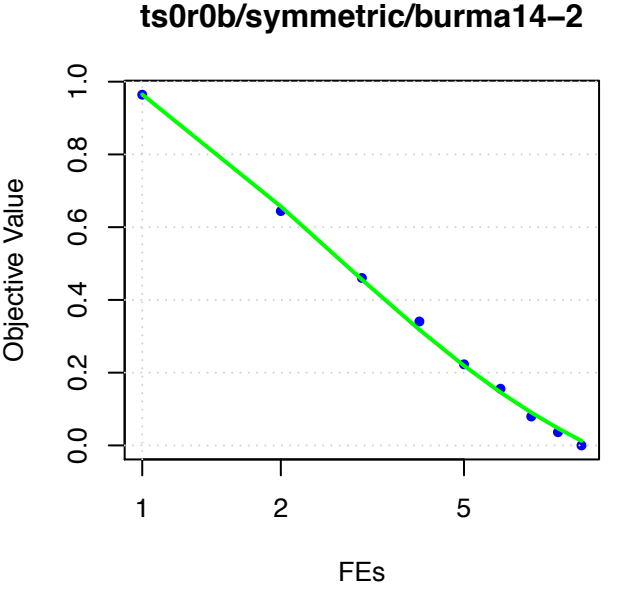
6
8
FEs


ts0r0b/symmetric/burma14−2
Objective Value
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0.8
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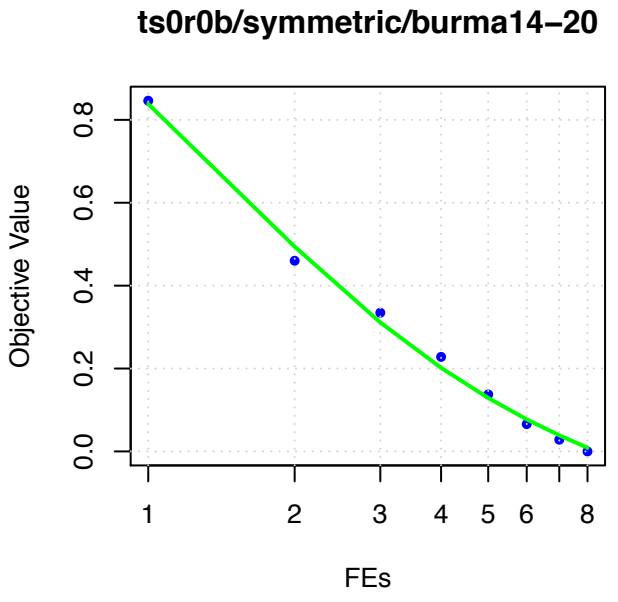
1
2
5
FEs


ts0r0b/symmetric/burma14−20
Objective Value
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0.6
0.8
1
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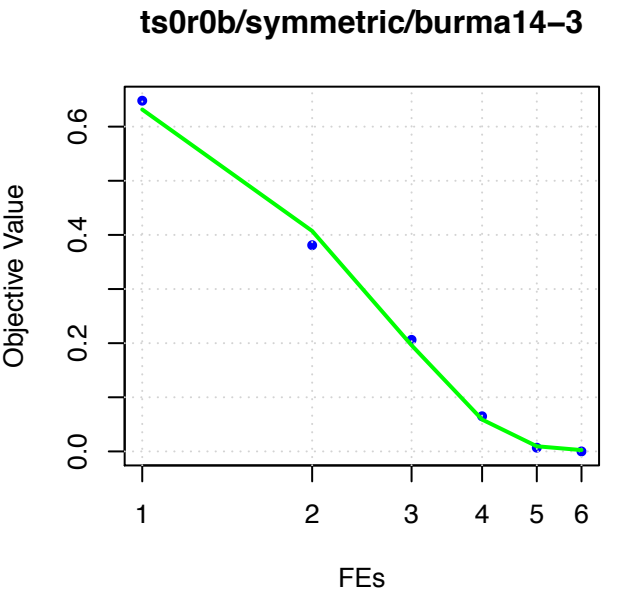
4
5
6
8
FEs


ts0r0b/symmetric/burma14−3
Objective Value
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0.4
0.6
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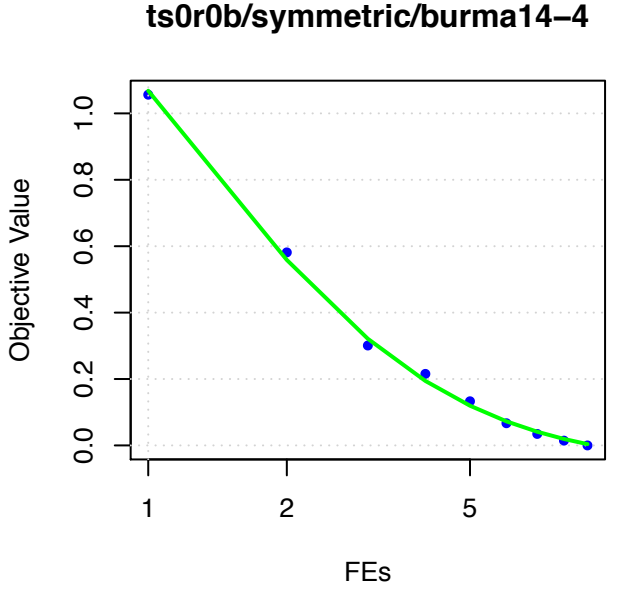
2
3
4
5
6
FEs


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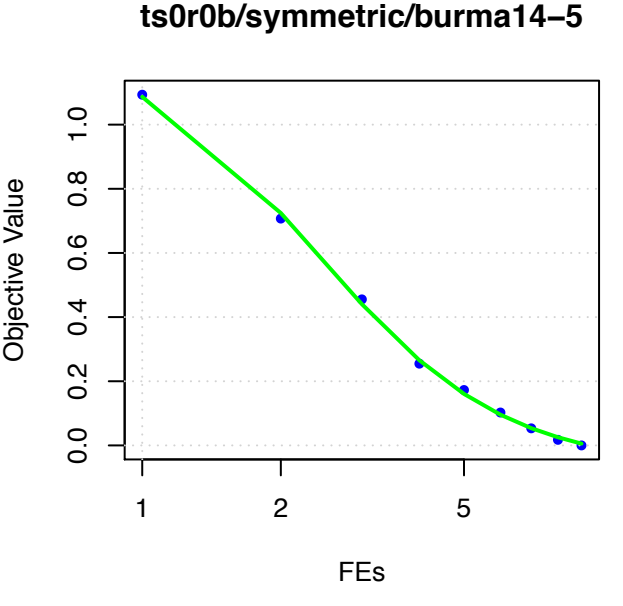
0.4
0.6
0.8
1.0
1
2
5
FEs


ts0r0b/symmetric/burma14−5
Objective Value
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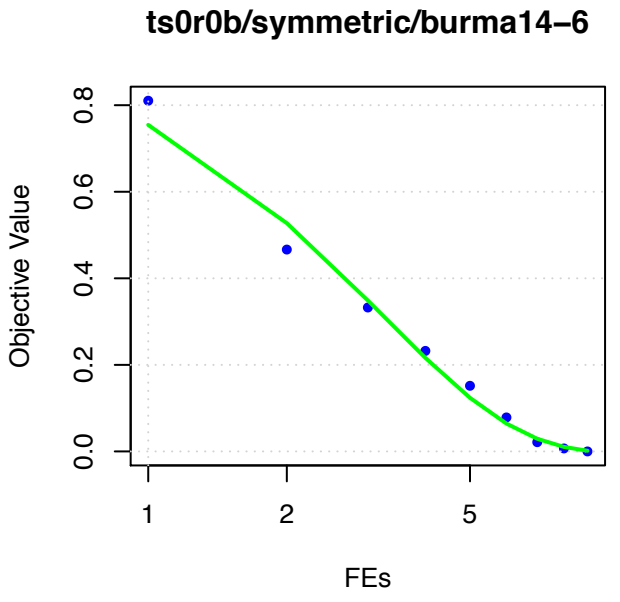
0.4
0.6
0.8
1.0
1
2
5
FEs


ts0r0b/symmetric/burma14−6
Objective Value
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0.2
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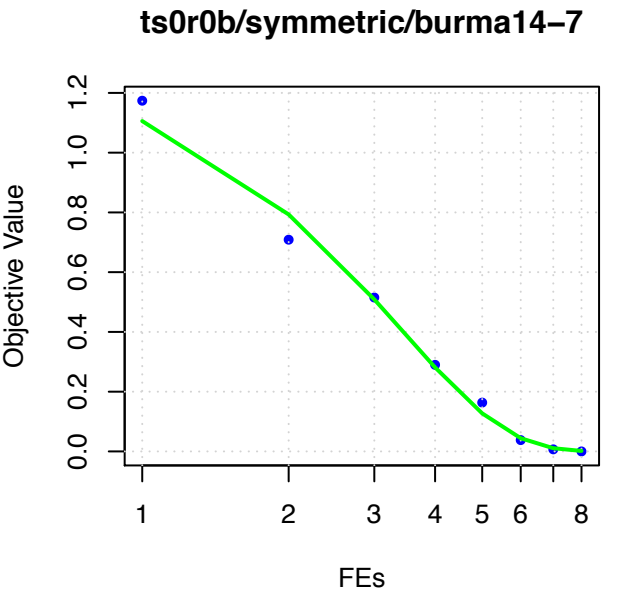
0.6
0.8
1
2
5
FEs


ts0r0b/symmetric/burma14−7
Objective Value
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0.6
0.8
1.0
1.2
1
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3
4
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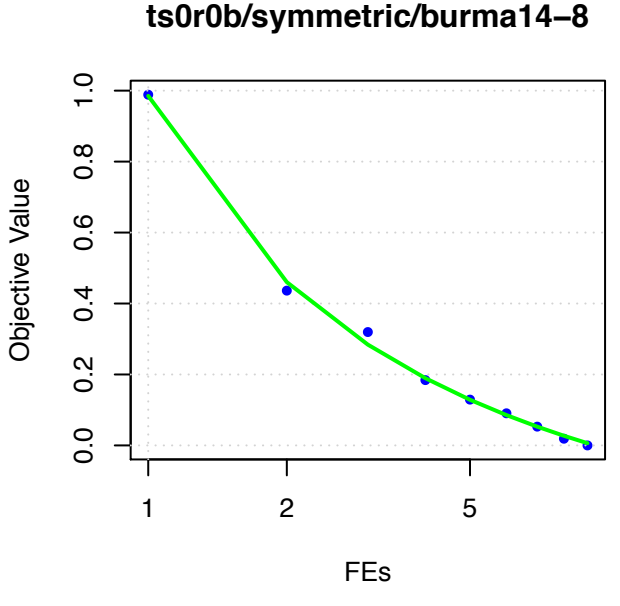
6
8
FEs


ts0r0b/symmetric/burma14−8
Objective Value
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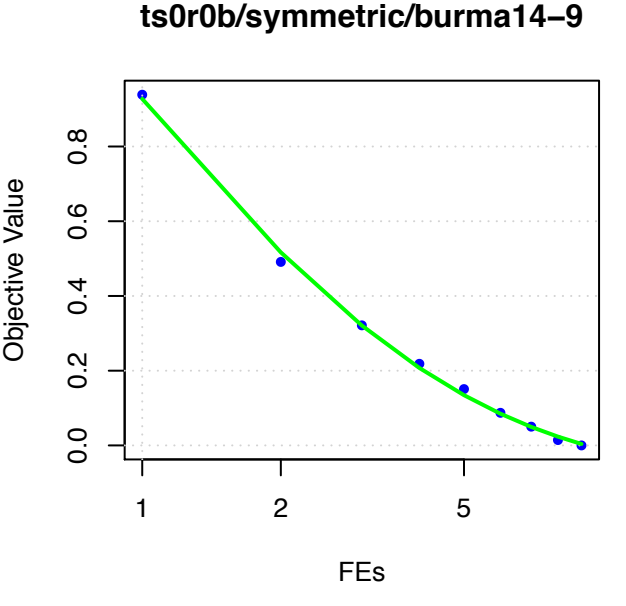
0.4
0.6
0.8
1.0
1
2
5
FEs


ts0r0b/symmetric/burma14−9
Objective Value
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0.6
0.8
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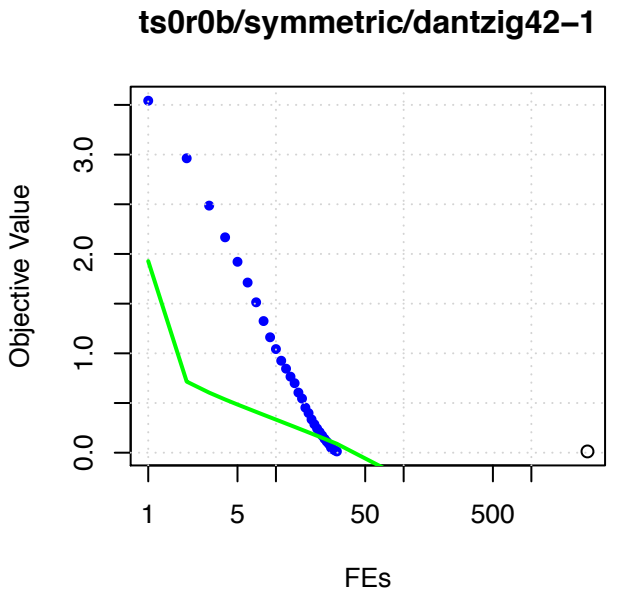
2
5
FEs


ts0r0b/symmetric/dantzig42−1
Objective Value
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2.0
3.0
1
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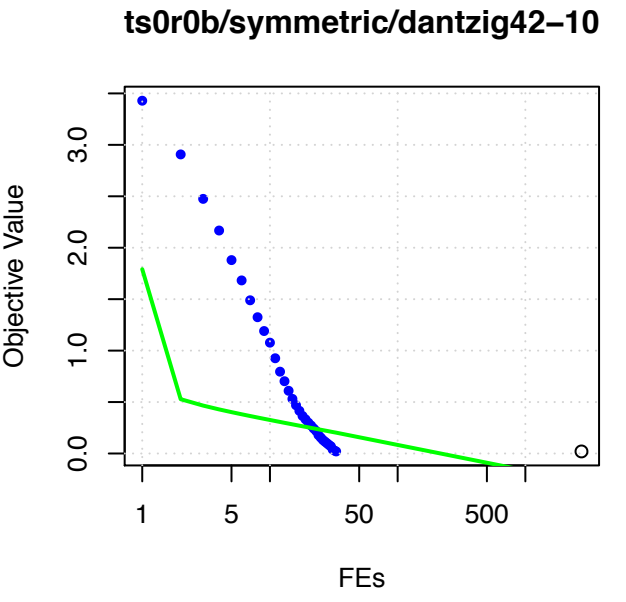
500
FEs


ts0r0b/symmetric/dantzig42−10
Objective Value
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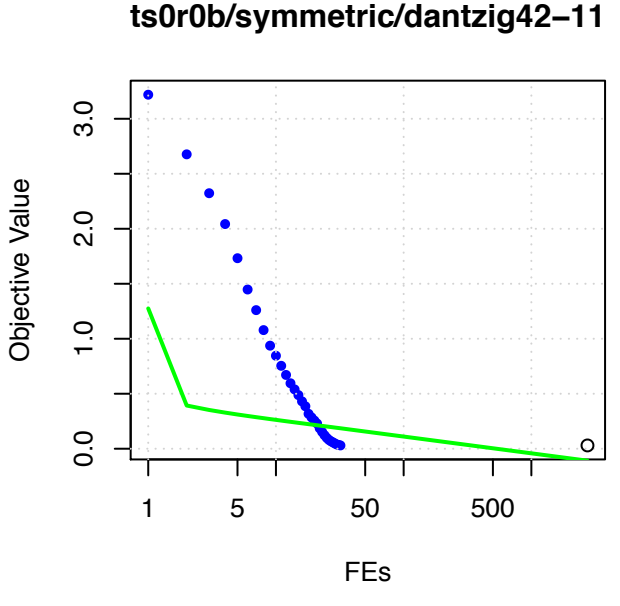
500
FEs


ts0r0b/symmetric/dantzig42−11
Objective Value
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2.0
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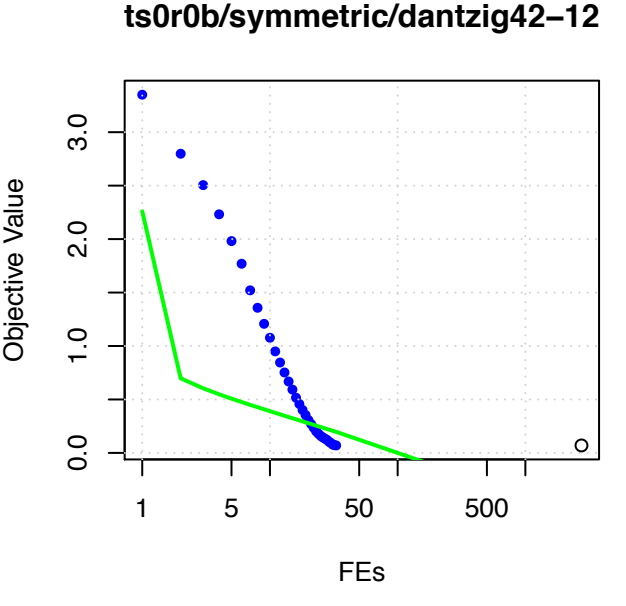
50
500
FEs


ts0r0b/symmetric/dantzig42−12
Objective Value
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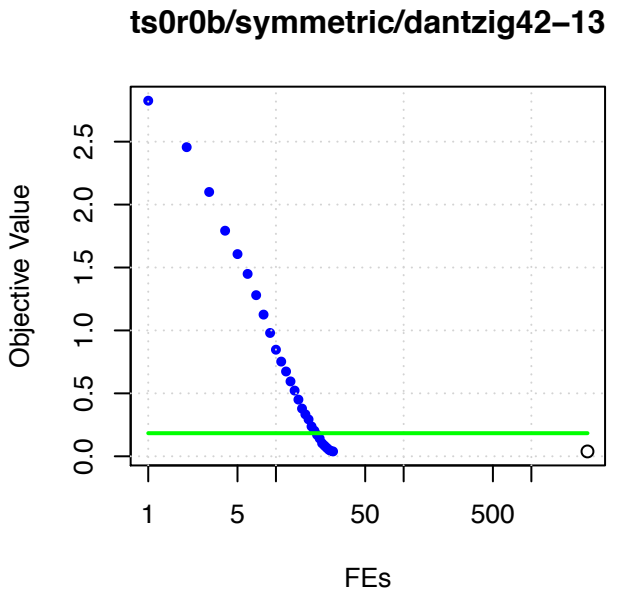
500
FEs


ts0r0b/symmetric/dantzig42−13
Objective Value
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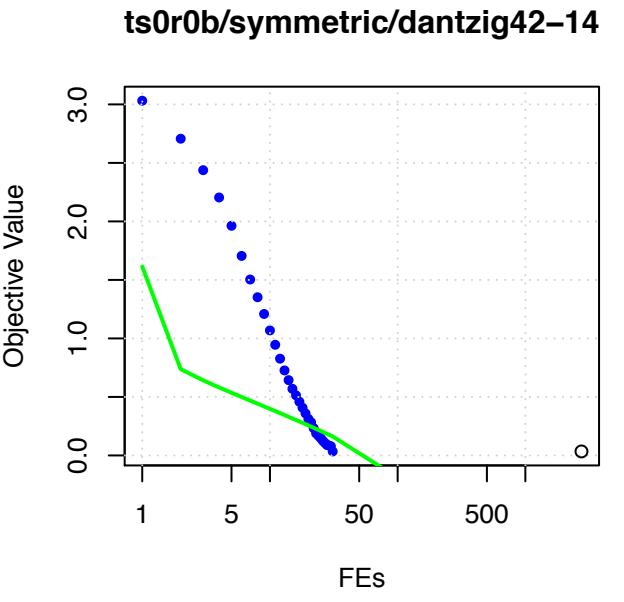
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts0r0b/symmetric/dantzig42−14
Objective Value
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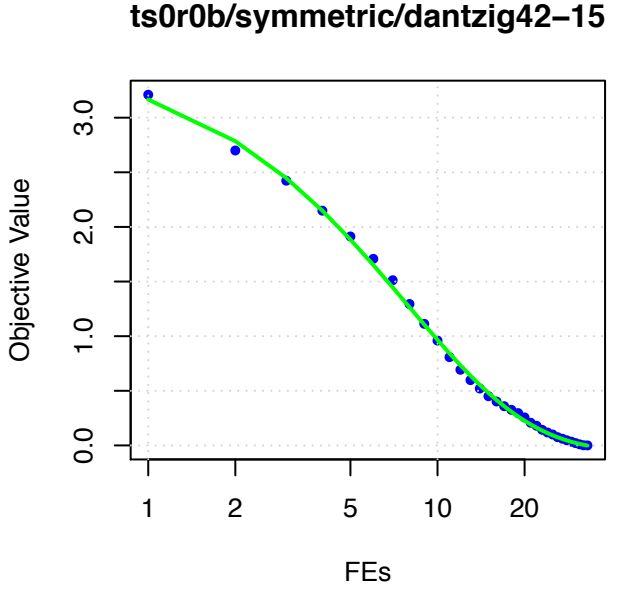
5
50
500
FEs


ts0r0b/symmetric/dantzig42−15
Objective Value
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1.0
2.0
3.0
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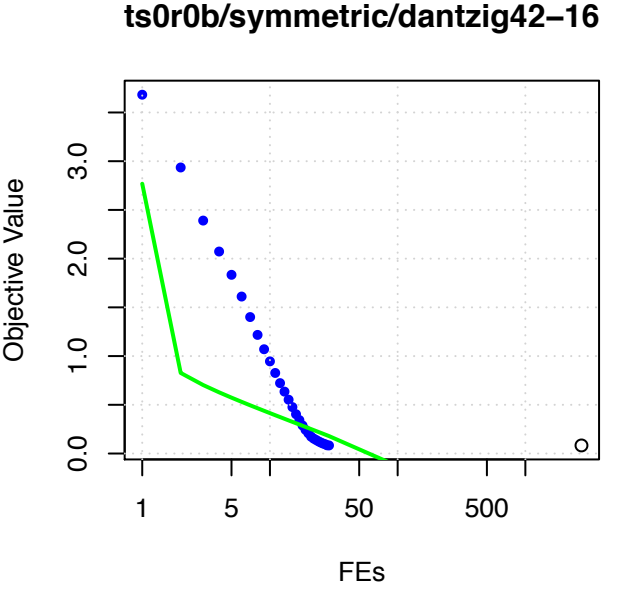
2
5
10
20
FEs


ts0r0b/symmetric/dantzig42−16
Objective Value
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2.0
3.0
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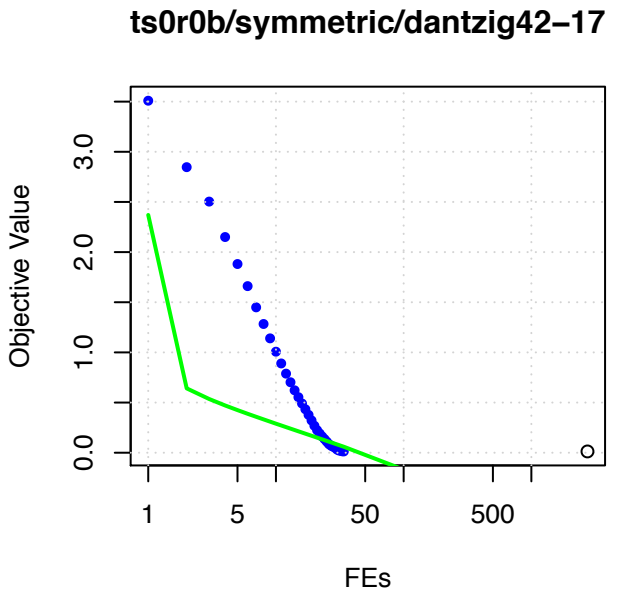
5
50
500
FEs


ts0r0b/symmetric/dantzig42−17
Objective Value
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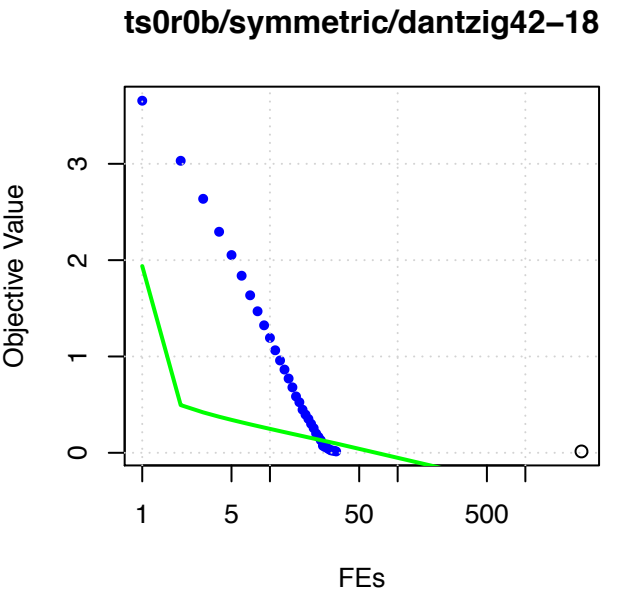
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/dantzig42−18
Objective Value
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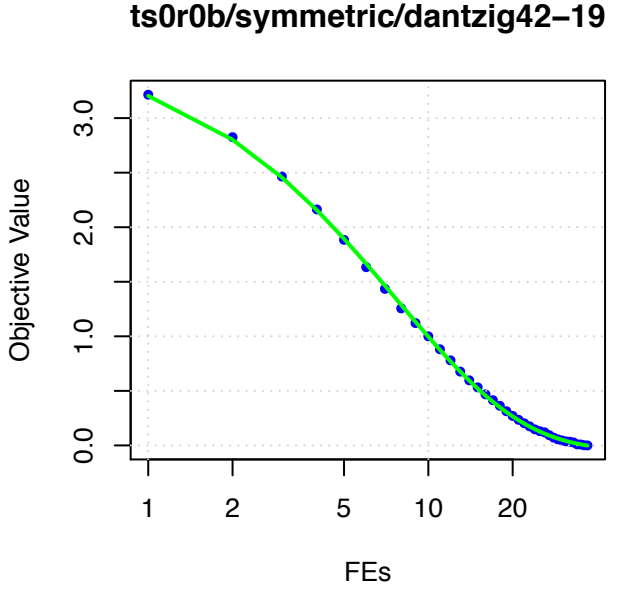
1
2
3
1
5
50
500
FEs


ts0r0b/symmetric/dantzig42−19
Objective Value
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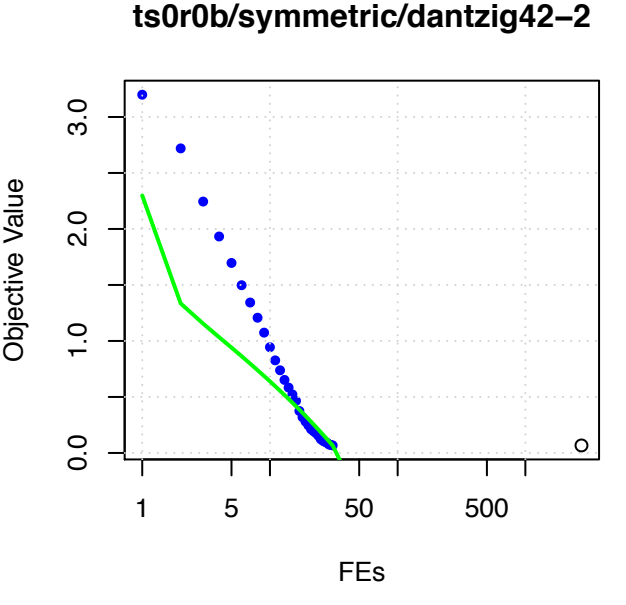
1.0
2.0
3.0
1
2
5
10
20
FEs


ts0r0b/symmetric/dantzig42−2
Objective Value
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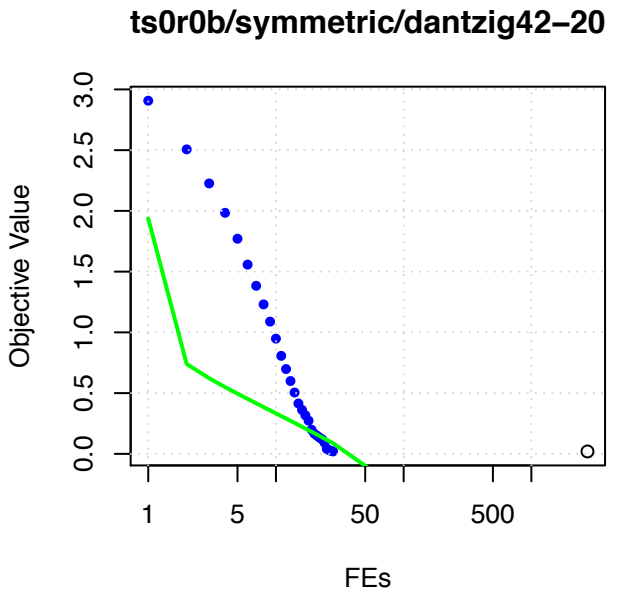
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/dantzig42−20
Objective Value
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1.0
1.5
2.0
2.5
3.0
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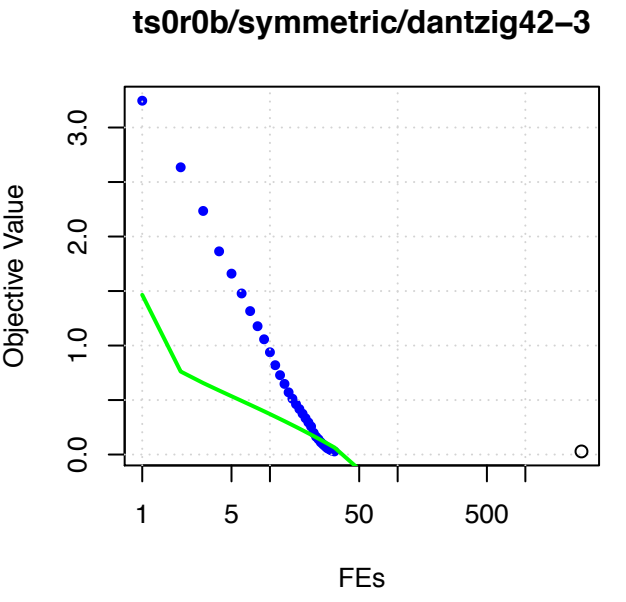
5
50
500
FEs


ts0r0b/symmetric/dantzig42−3
Objective Value
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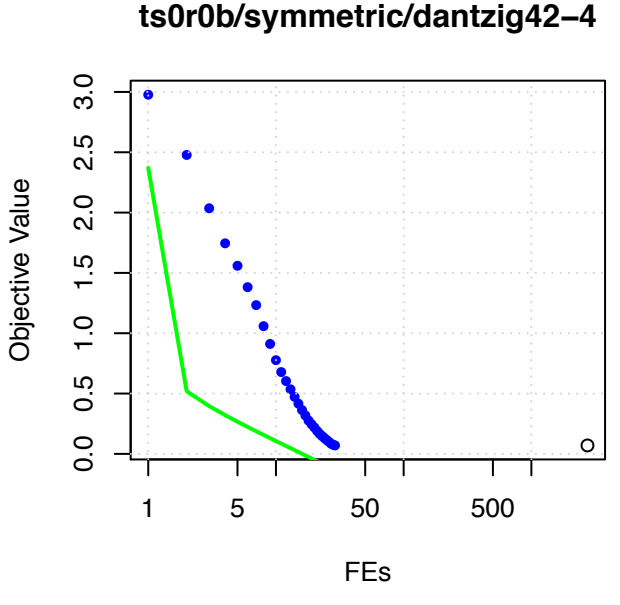
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/dantzig42−4
Objective Value
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0.5
1.0
1.5
2.0
2.5
3.0
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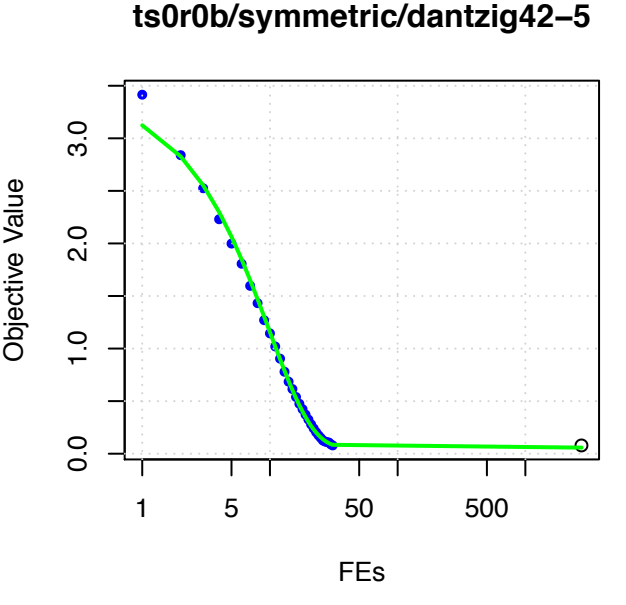
5
50
500
FEs


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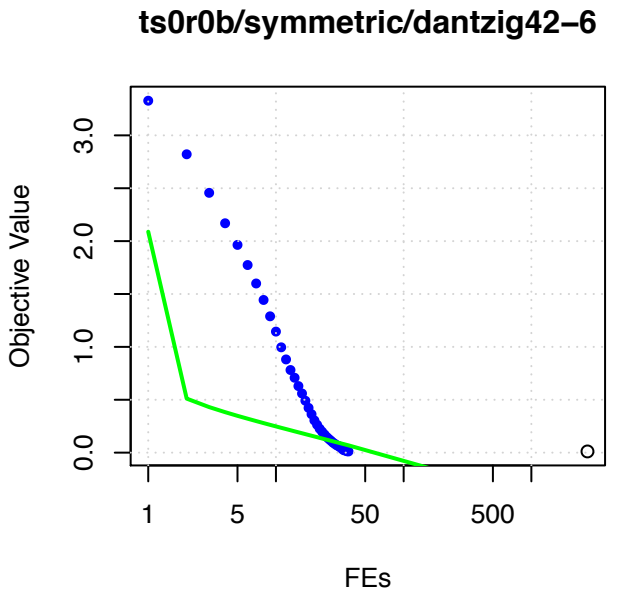
1.0
2.0
3.0
1
5
50
500
FEs


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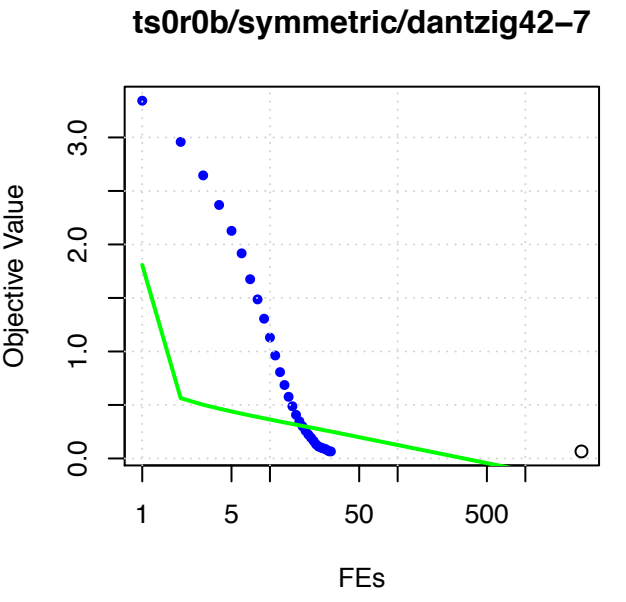
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/dantzig42−7
Objective Value
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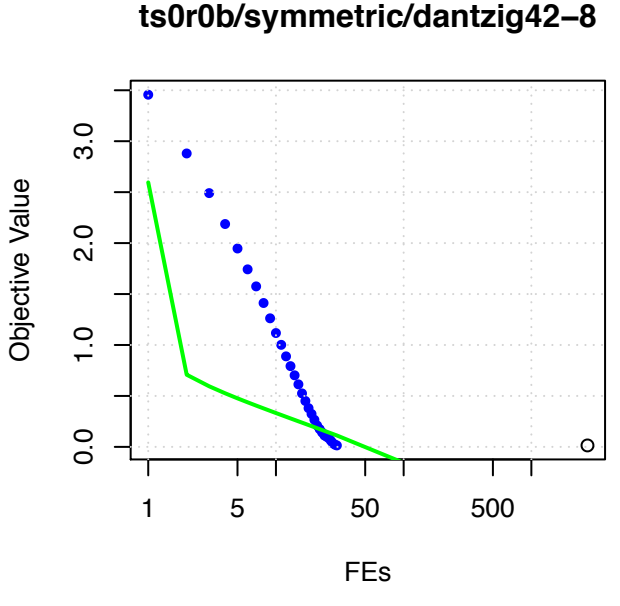
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/dantzig42−8
Objective Value
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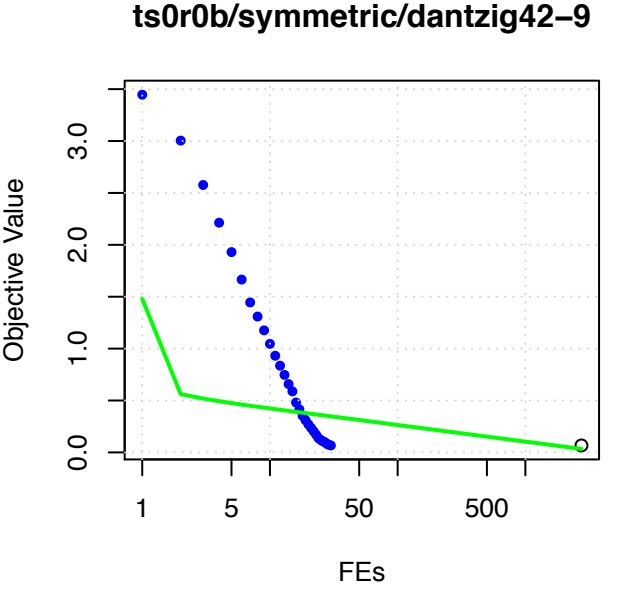
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/dantzig42−9
Objective Value
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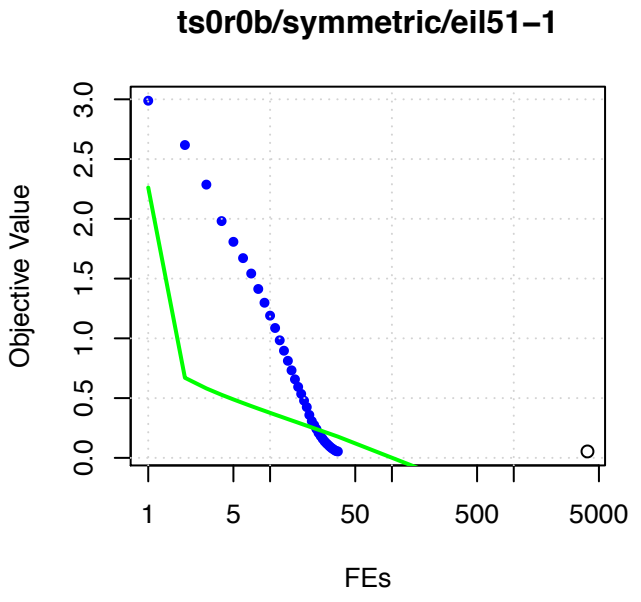
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/eil51−1
Objective Value
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2.5
3.0
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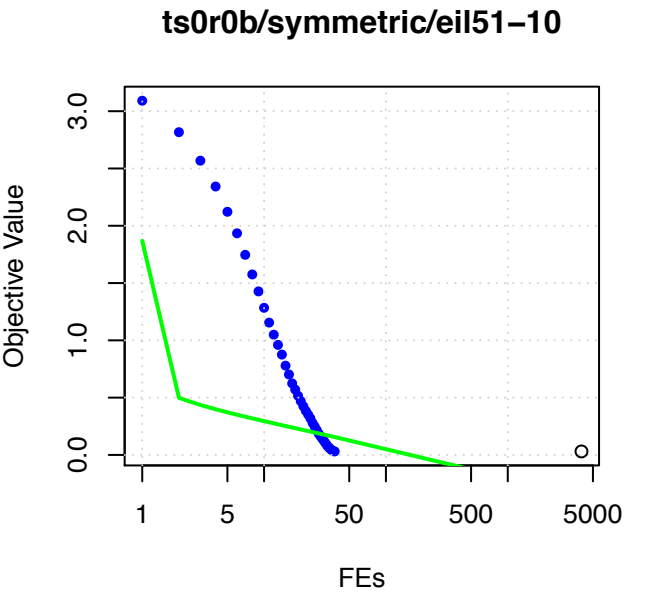
5
50
500
5000
FEs


ts0r0b/symmetric/eil51−10
Objective Value
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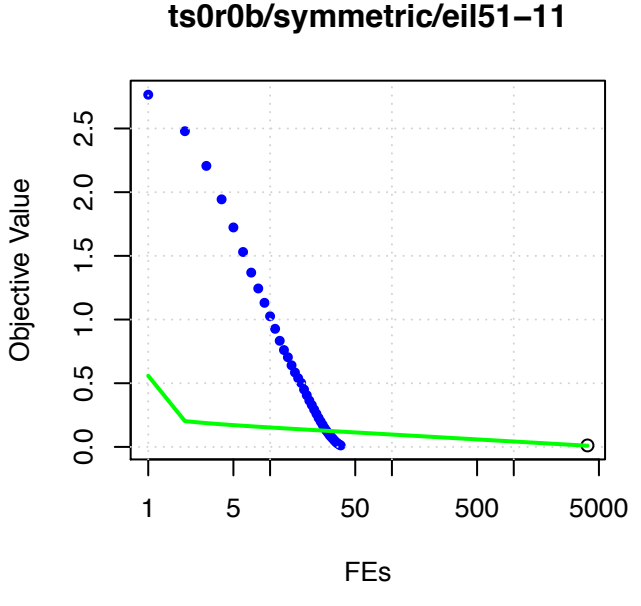
3.0
1
5
50
500
5000
FEs


ts0r0b/symmetric/eil51−11
Objective Value
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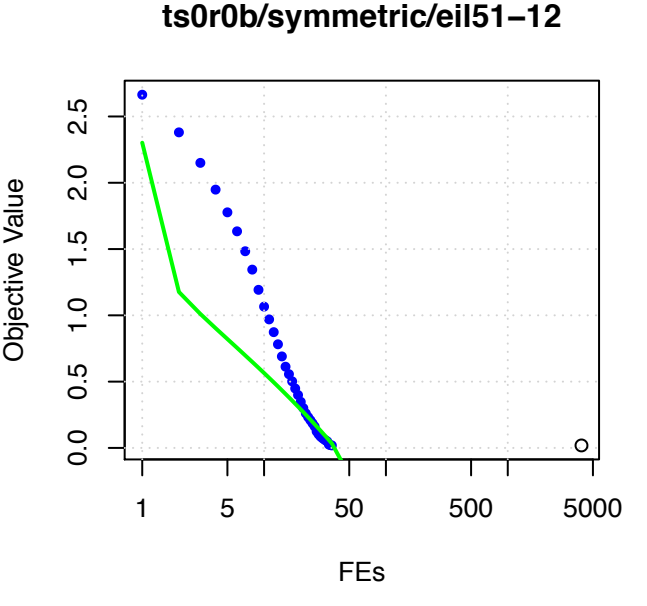
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0b/symmetric/eil51−12
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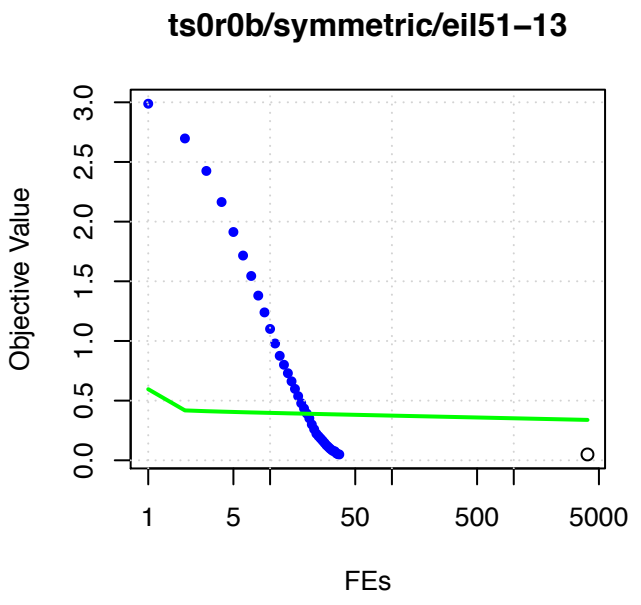
5000
FEs


ts0r0b/symmetric/eil51−13
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2.5
3.0
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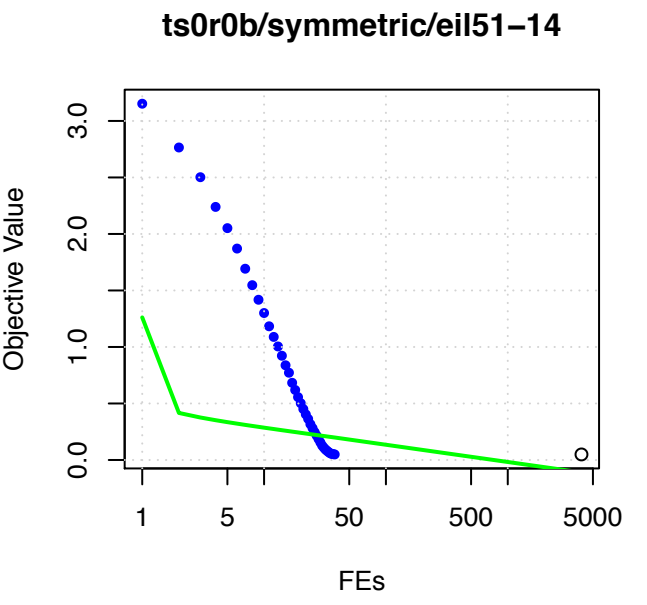
5000
FEs


ts0r0b/symmetric/eil51−14
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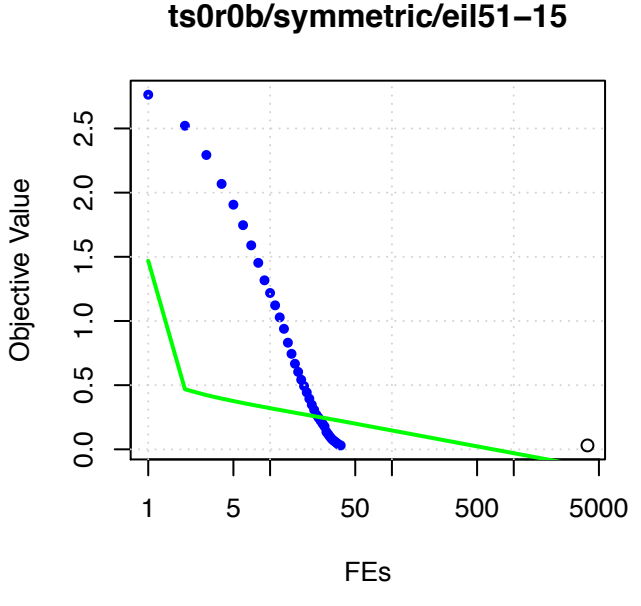
FEs


ts0r0b/symmetric/eil51−15
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2.5
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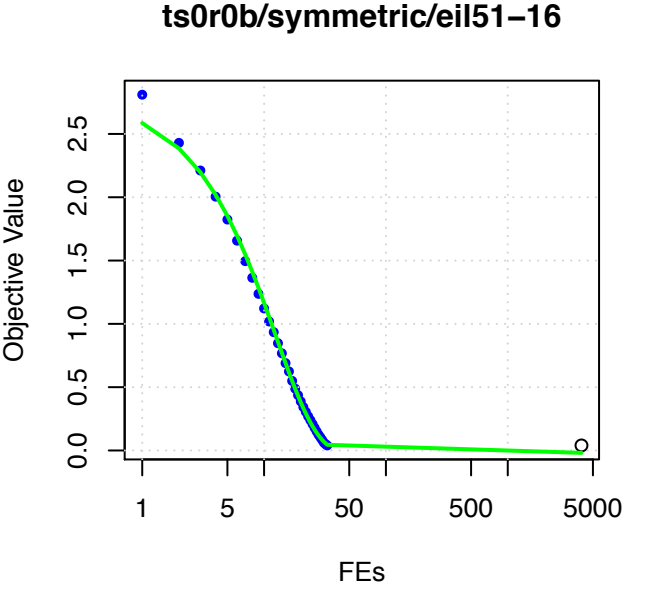
FEs


ts0r0b/symmetric/eil51−16
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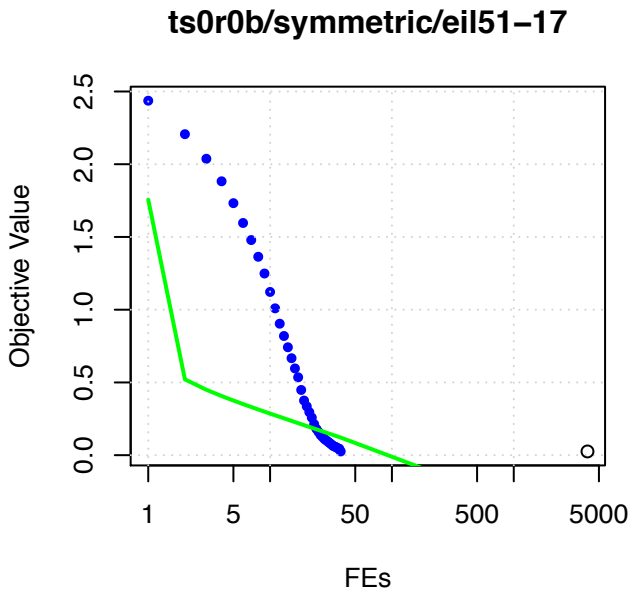
FEs


ts0r0b/symmetric/eil51−17
Objective Value
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2.5
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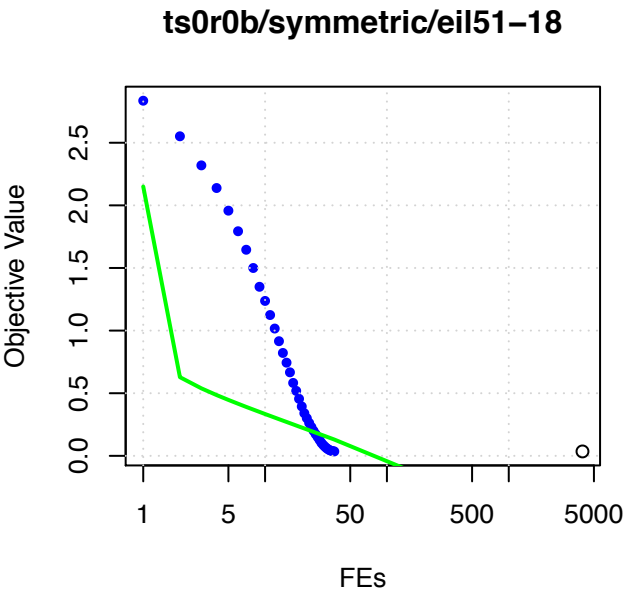
50
500
5000
FEs


ts0r0b/symmetric/eil51−18
Objective Value
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2.5
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50
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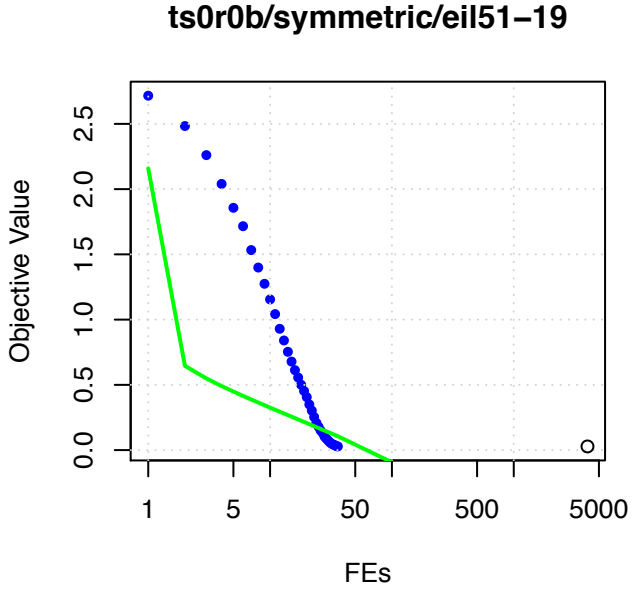
5000
FEs


ts0r0b/symmetric/eil51−19
Objective Value
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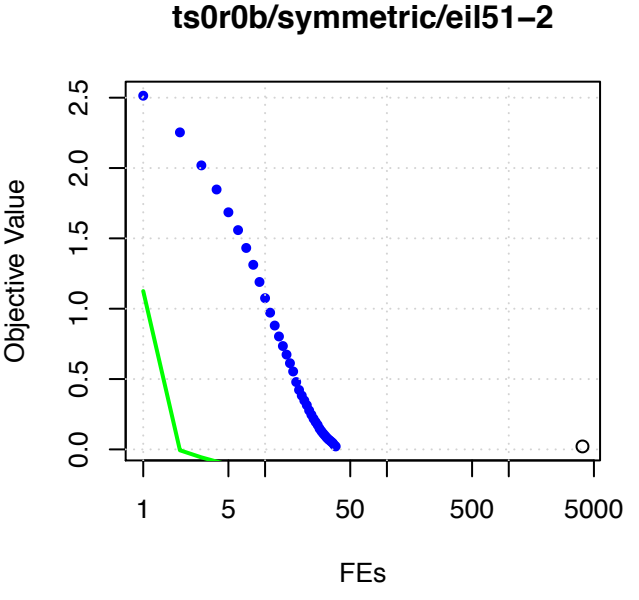
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0b/symmetric/eil51−2
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2.5
1
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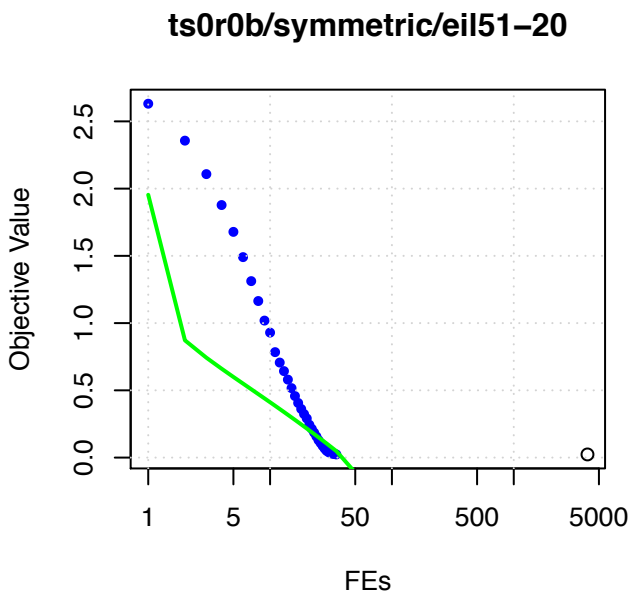
50
500
5000
FEs


ts0r0b/symmetric/eil51−20
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1.0
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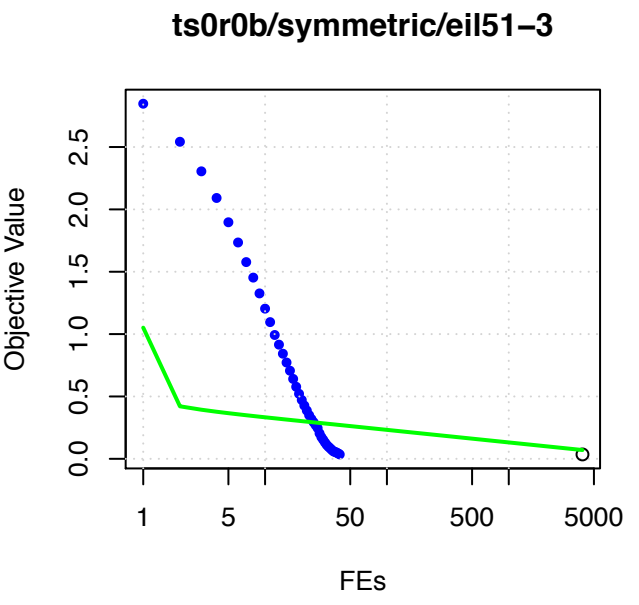
2.0
2.5
1
5
50
500
5000
FEs


ts0r0b/symmetric/eil51−3
Objective Value
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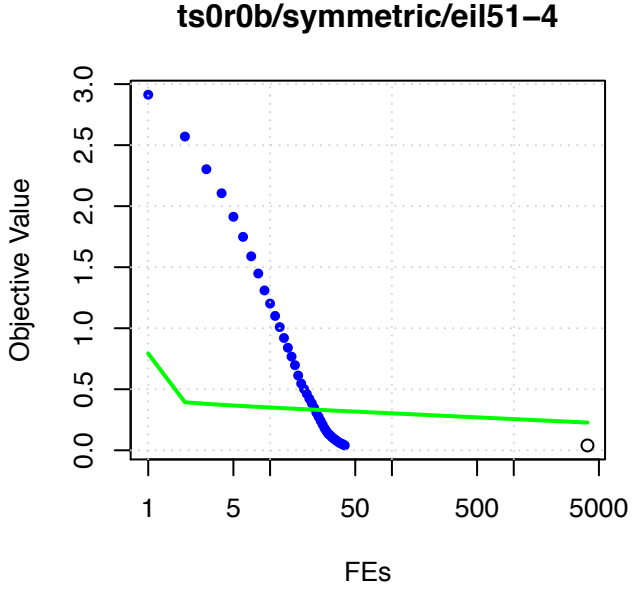
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0b/symmetric/eil51−4
Objective Value
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1.0
1.5
2.0
2.5
3.0
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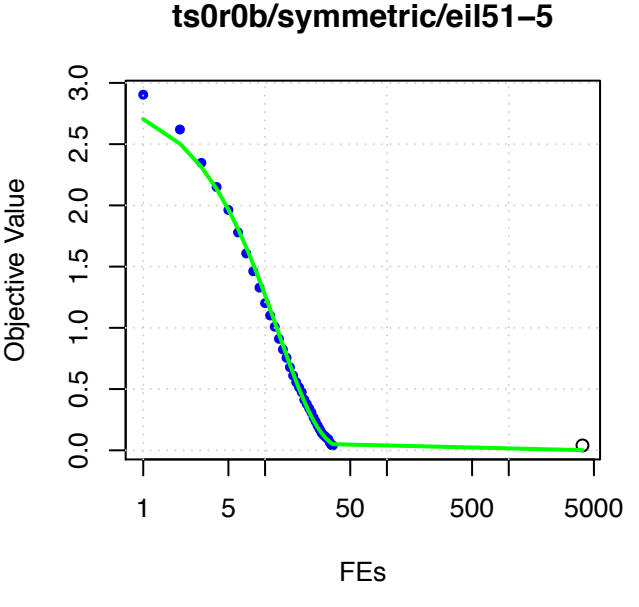
50
500
5000
FEs


ts0r0b/symmetric/eil51−5
Objective Value
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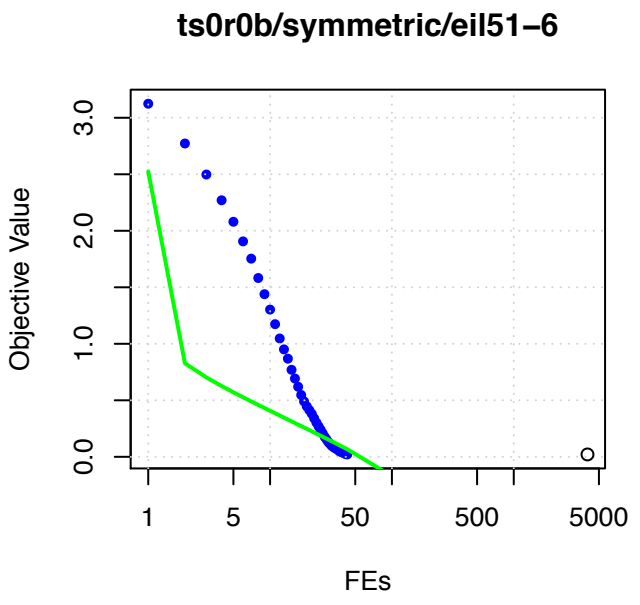
2.5
3.0
1
5
50
500
5000
FEs


ts0r0b/symmetric/eil51−6
Objective Value
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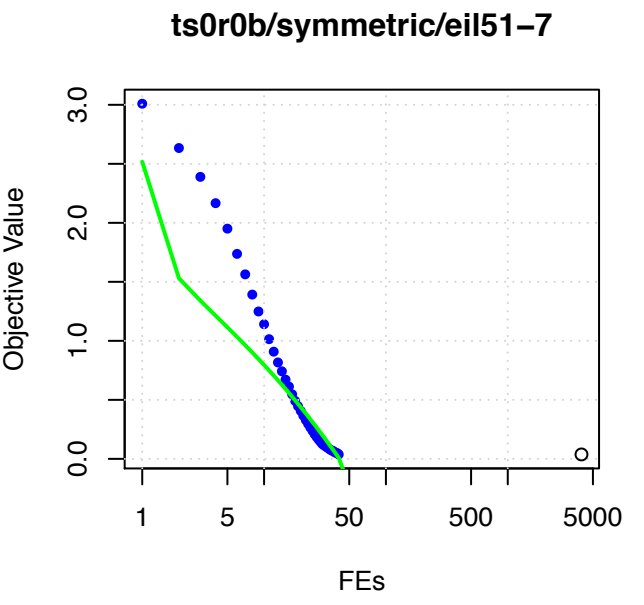
2.0
3.0
1
5
50
500
5000
FEs


ts0r0b/symmetric/eil51−7
Objective Value
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2.0
3.0
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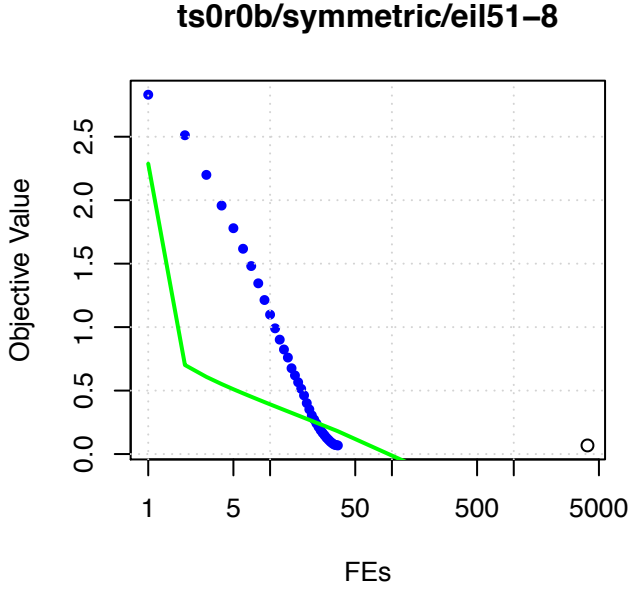
5
50
500
5000
FEs


ts0r0b/symmetric/eil51−8
Objective Value
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1.0
1.5
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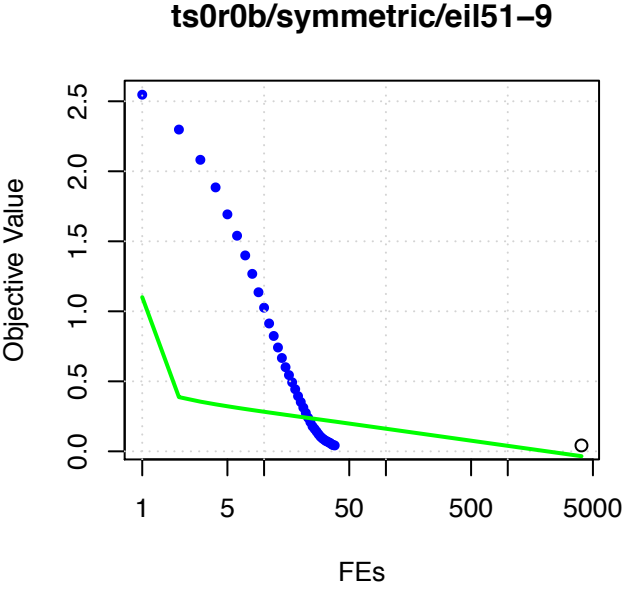
2.5
1
5
50
500
5000
FEs


ts0r0b/symmetric/eil51−9
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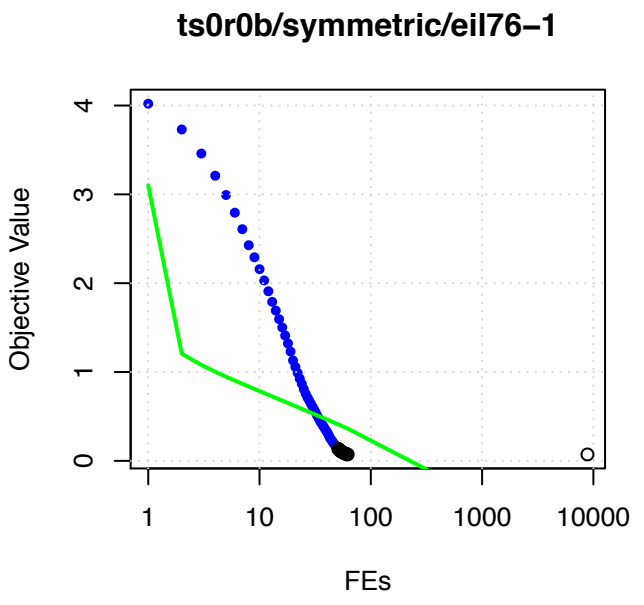
2.5
1
5
50
500
5000
FEs


ts0r0b/symmetric/eil76−1
Objective Value
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1
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3
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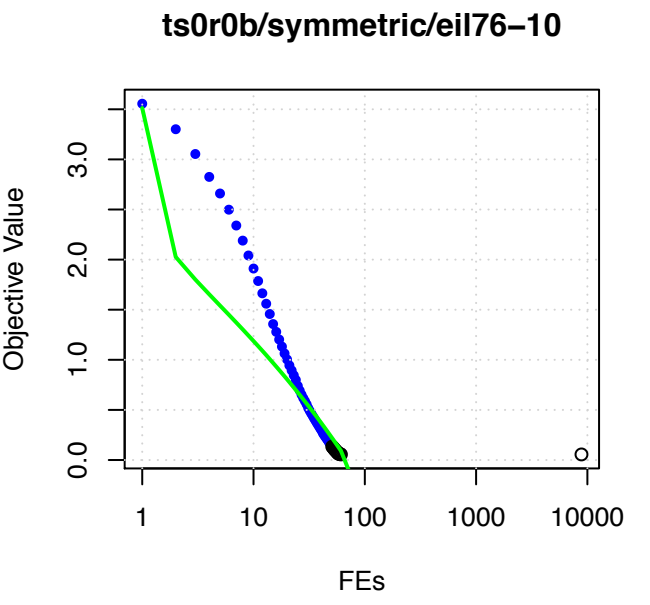
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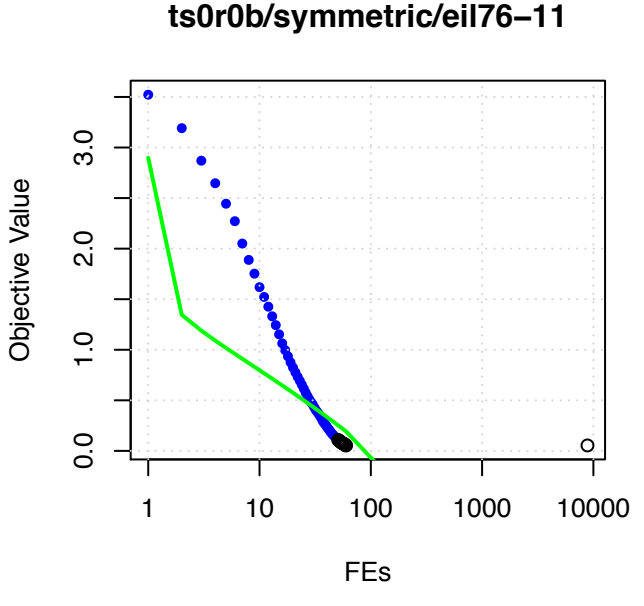
FEs


ts0r0b/symmetric/eil76−11
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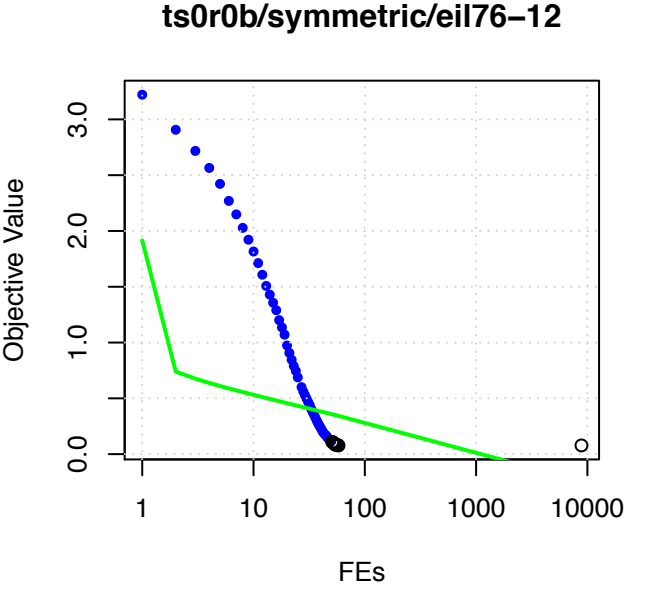
FEs


ts0r0b/symmetric/eil76−12
Objective Value
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3.0
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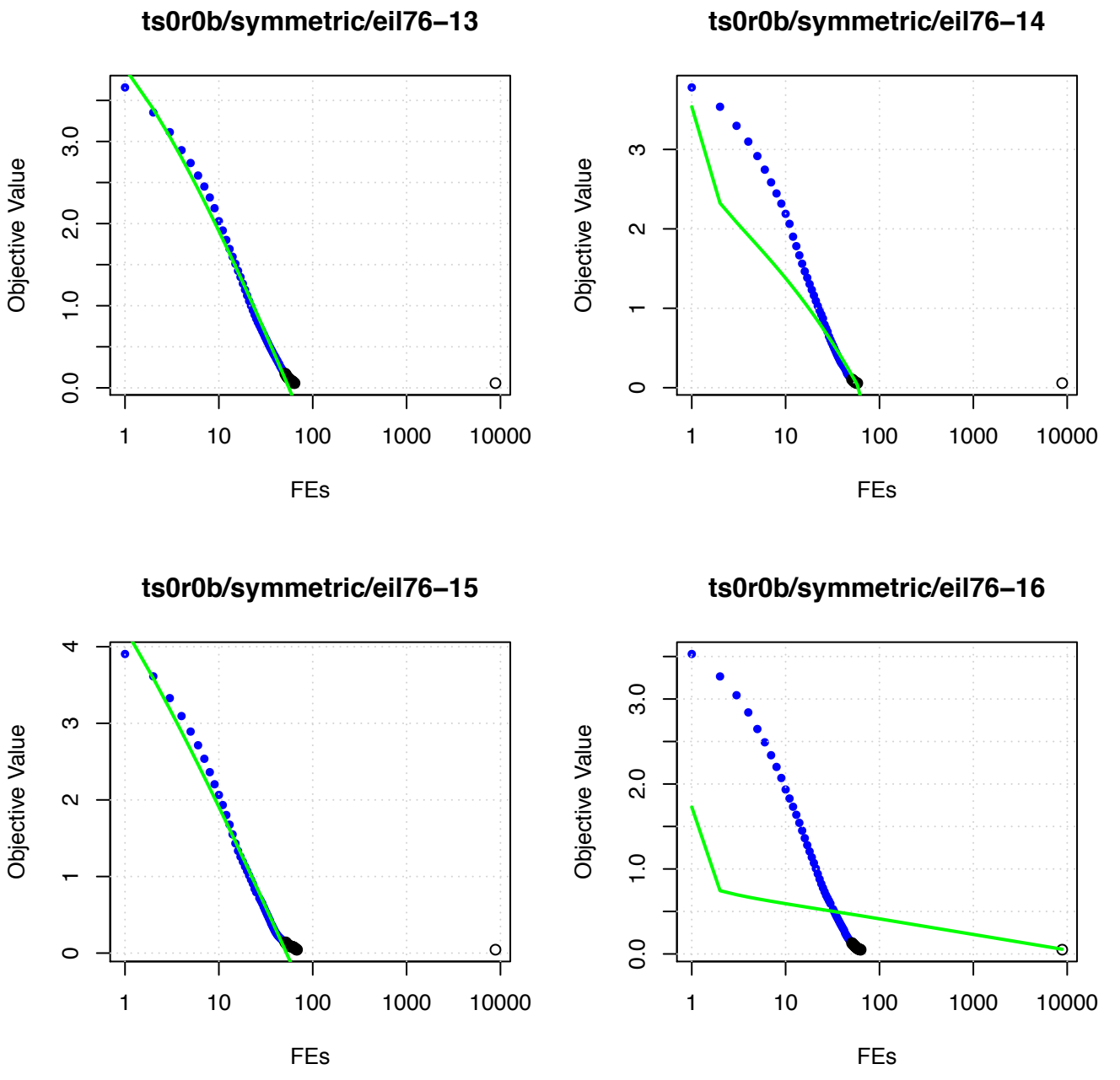
1000
10000
FEs


ts0r0b/symmetric/eil76−13
ts0r0b/symmetric/eil76−14
ts0r0b/symmetric/eil76−15
ts0r0b/symmetric/eil76−16
Objective Value
FEs
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10
100
1000
10000
0.0
1.0
2.0
3.0
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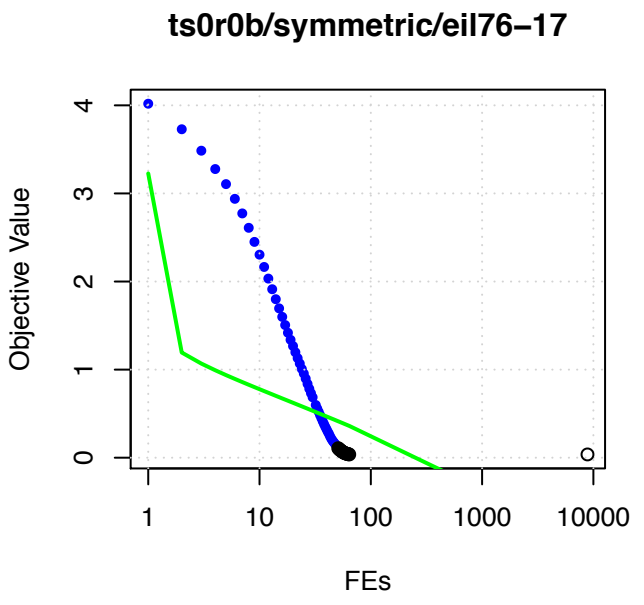
1
2
3
4


ts0r0b/symmetric/eil76−17
Objective Value
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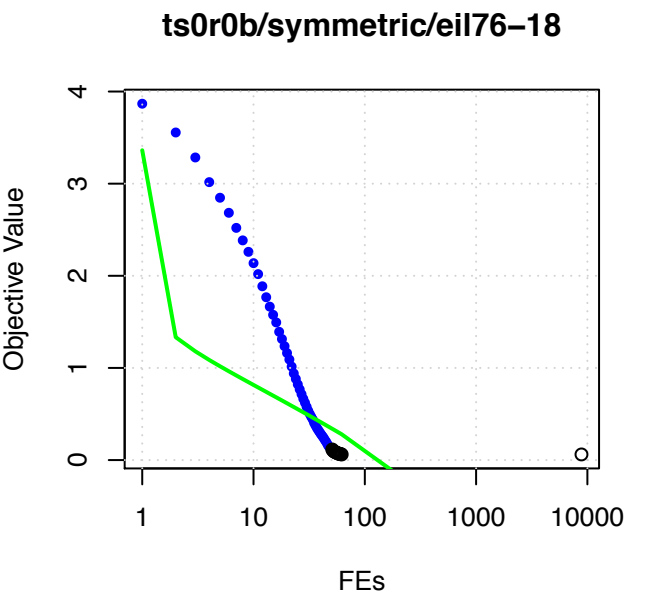
3
4
1
10
100
1000
10000
FEs


ts0r0b/symmetric/eil76−18
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3
4
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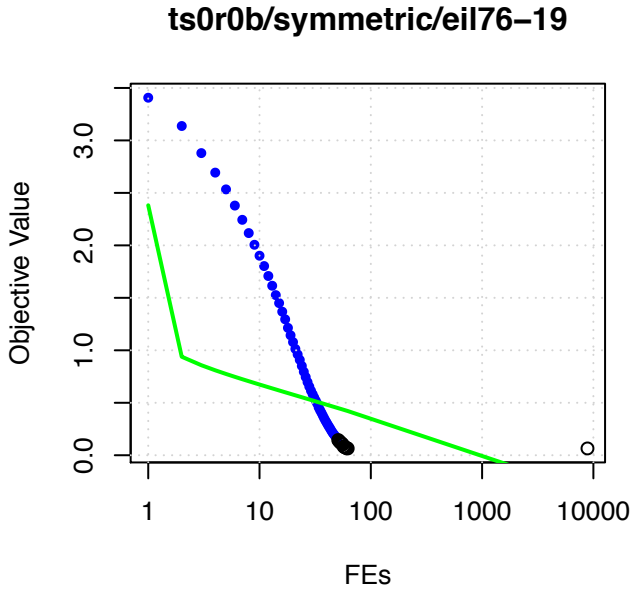
10
100
1000
10000
FEs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Objective Value
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2.0
3.0
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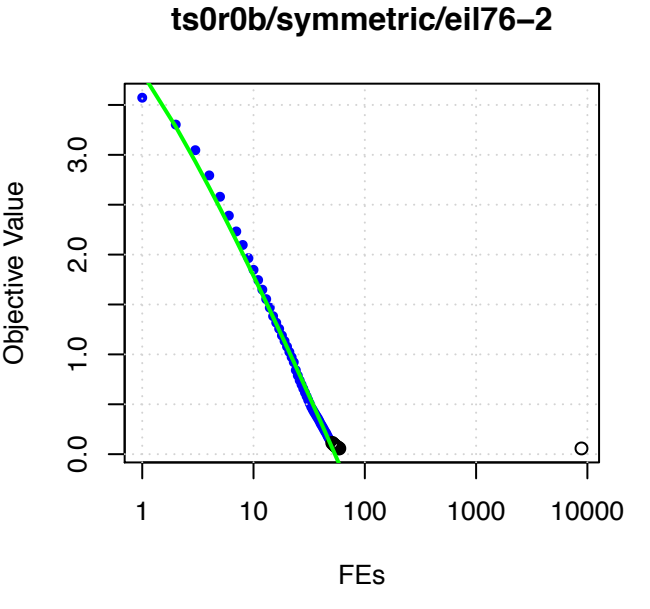
100
1000
10000
FEs


ts0r0b/symmetric/eil76−2
Objective Value
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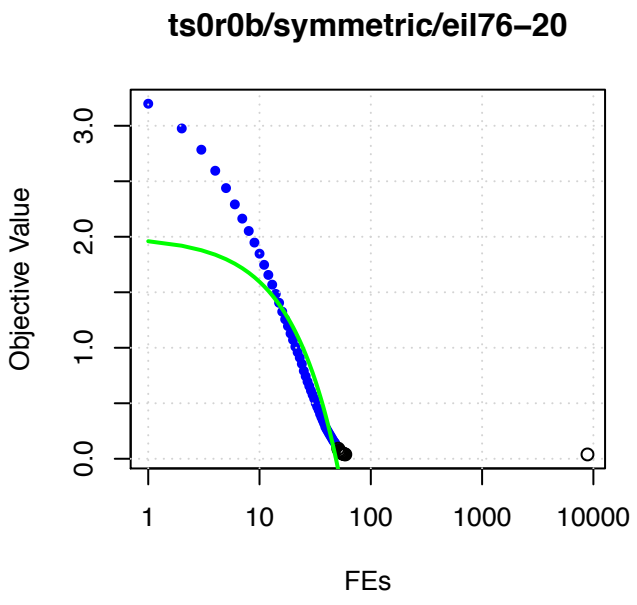
2.0
3.0
1
10
100
1000
10000
FEs


ts0r0b/symmetric/eil76−20
Objective Value
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1.0
2.0
3.0
1
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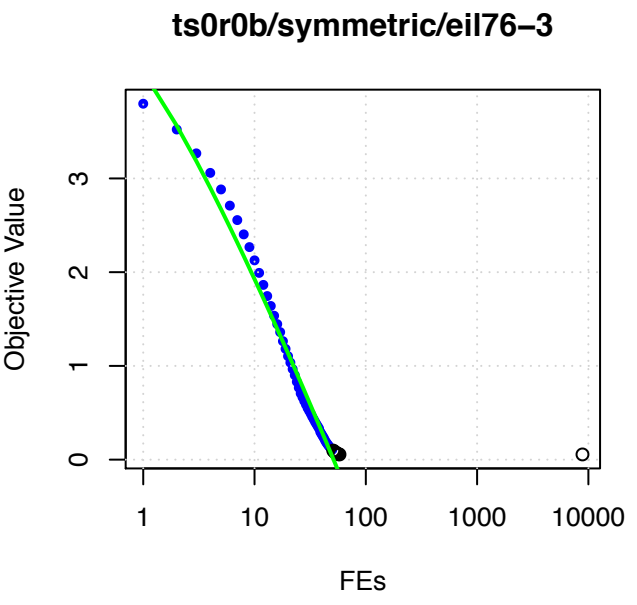
100
1000
10000
FEs


ts0r0b/symmetric/eil76−3
Objective Value
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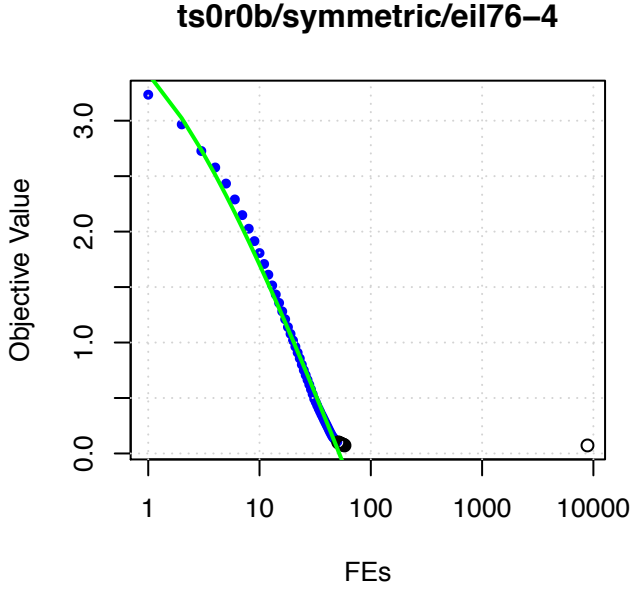
2
3
1
10
100
1000
10000
FEs


ts0r0b/symmetric/eil76−4
Objective Value
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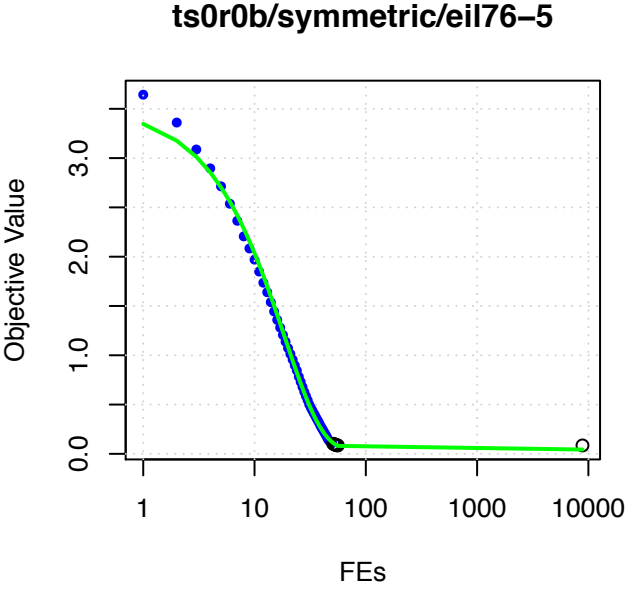
1.0
2.0
3.0
1
10
100
1000
10000
FEs


ts0r0b/symmetric/eil76−5
Objective Value
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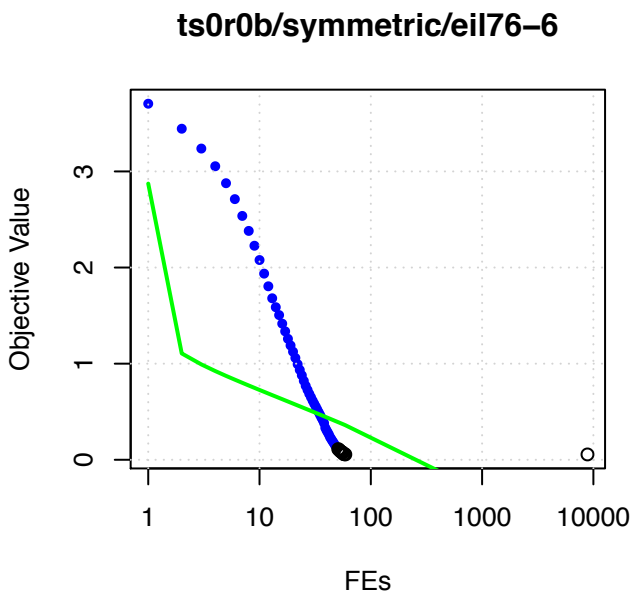
2.0
3.0
1
10
100
1000
10000
FEs


ts0r0b/symmetric/eil76−6
Objective Value
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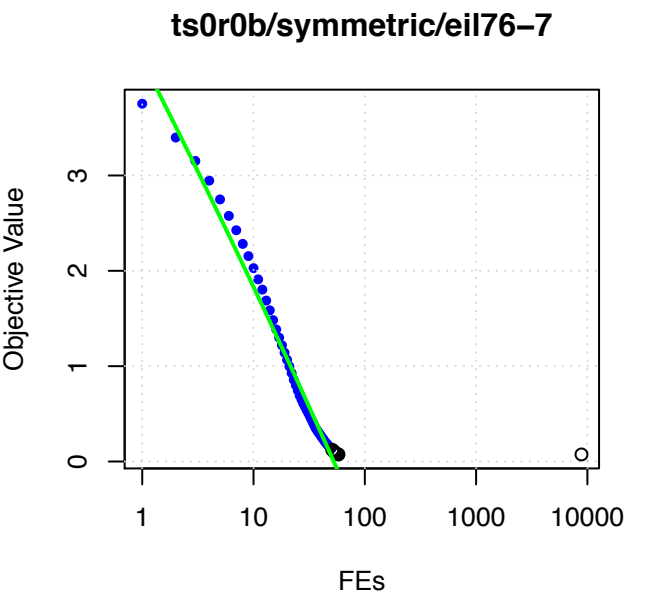
2
3
1
10
100
1000
10000
FEs


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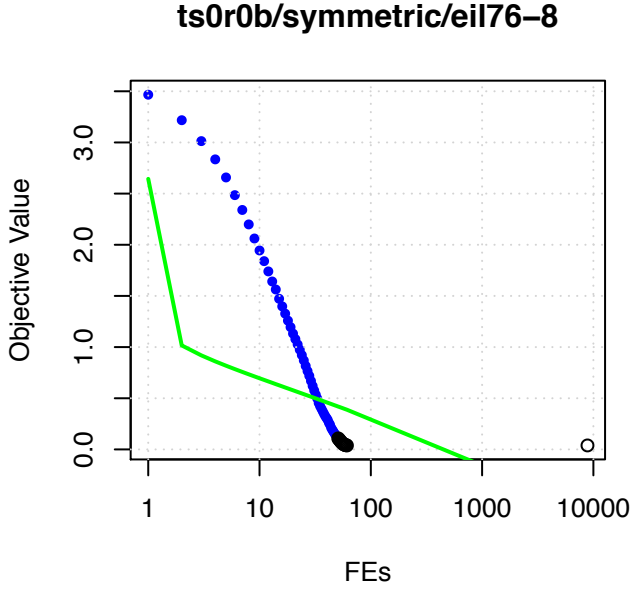
2
3
1
10
100
1000
10000
FEs


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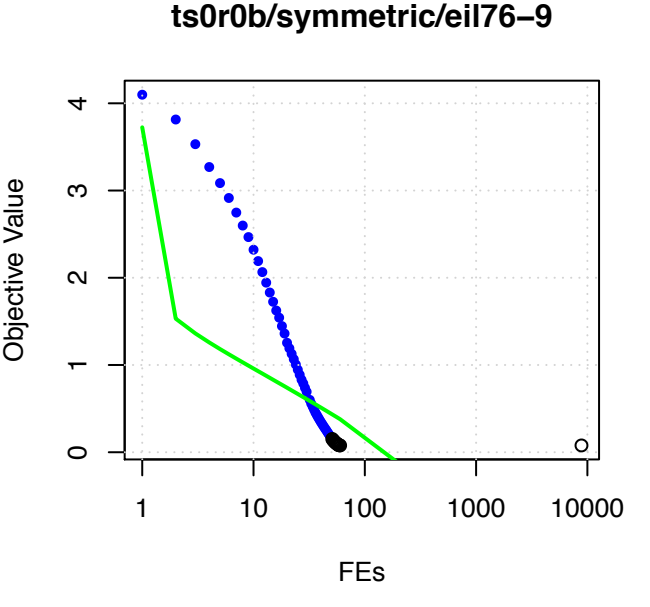
2.0
3.0
1
10
100
1000
10000
FEs


ts0r0b/symmetric/eil76−9
Objective Value
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1
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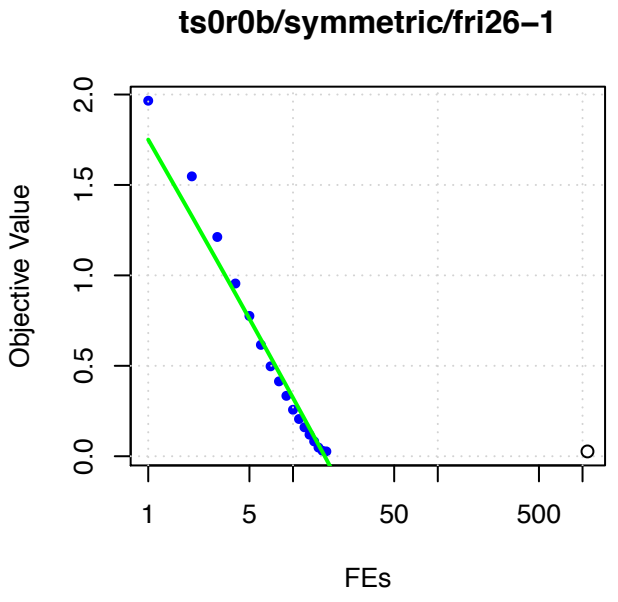
3
4
1
10
100
1000
10000
FEs


ts0r0b/symmetric/fri26−1
Objective Value
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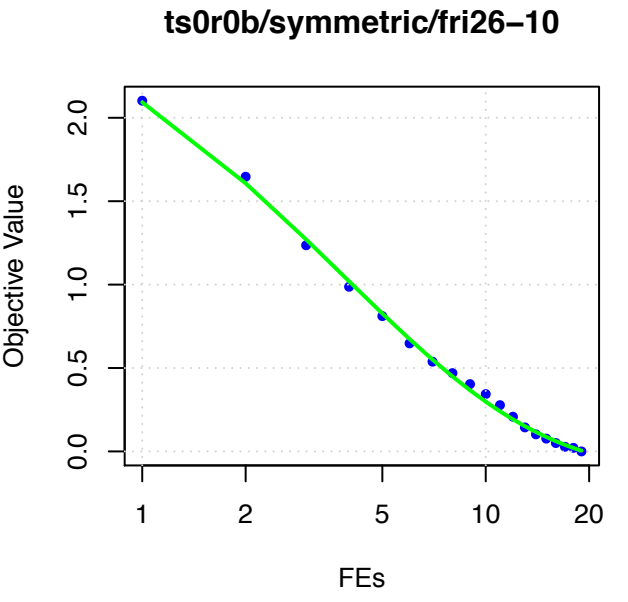
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0b/symmetric/fri26−10
Objective Value
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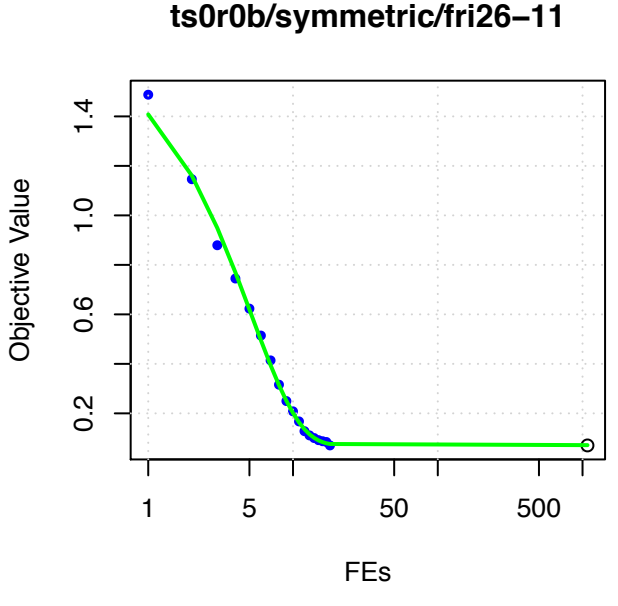
0.5
1.0
1.5
2.0
1
2
5
10
20
FEs


ts0r0b/symmetric/fri26−11
Objective Value
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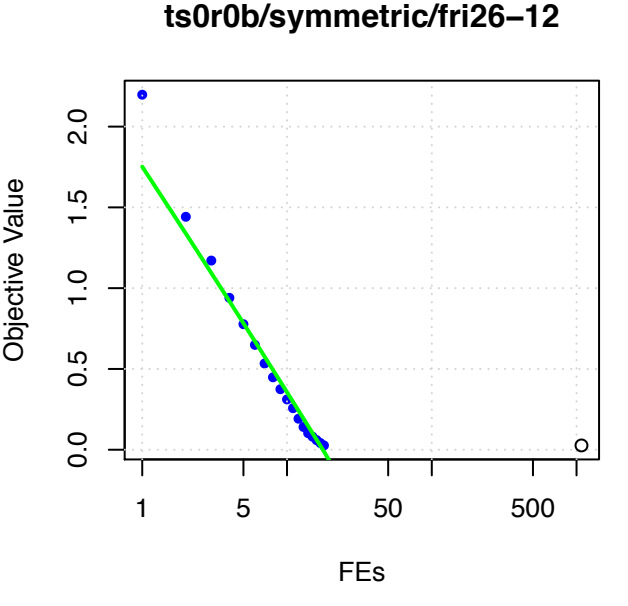
0.6
1.0
1.4
1
5
50
500
FEs


ts0r0b/symmetric/fri26−12
Objective Value
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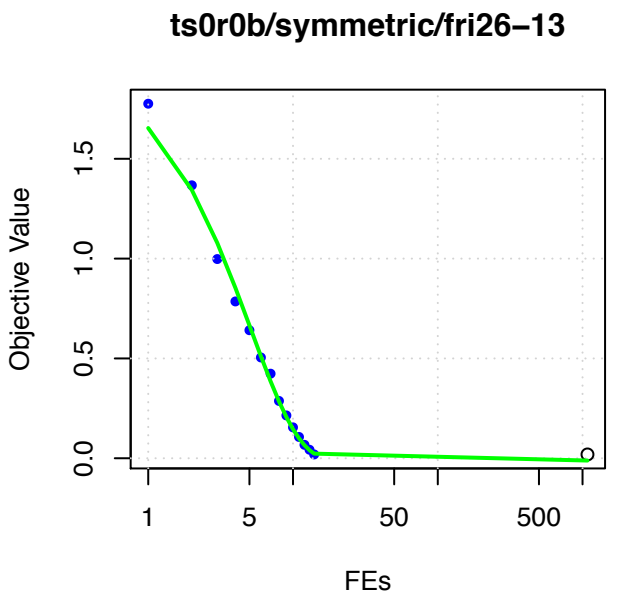
1.0
1.5
2.0
1
5
50
500
FEs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Objective Value
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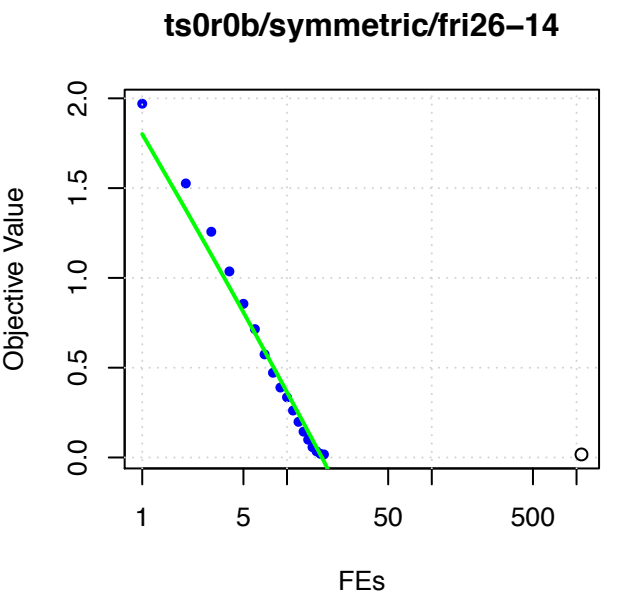
1.5
1
5
50
500
FEs


ts0r0b/symmetric/fri26−14
Objective Value
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1.0
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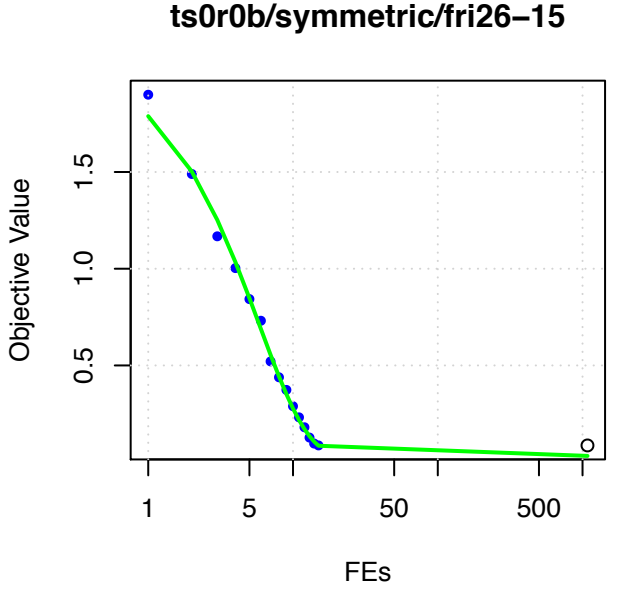
2.0
1
5
50
500
FEs


ts0r0b/symmetric/fri26−15
Objective Value
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1
5
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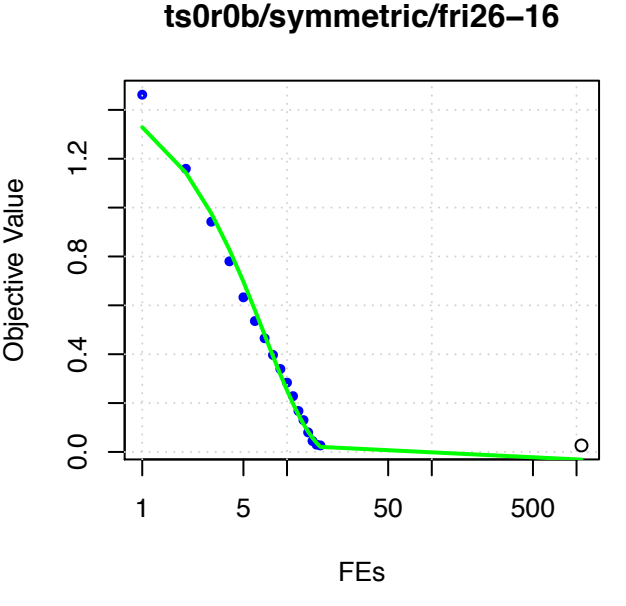
500
FEs


ts0r0b/symmetric/fri26−16
Objective Value
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0.8
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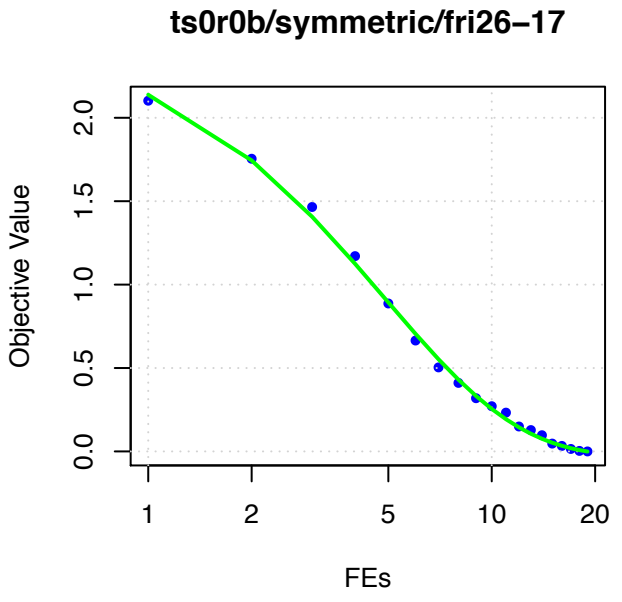
ts0r0b/symmetric/fri26−17
Objective Value
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1.5
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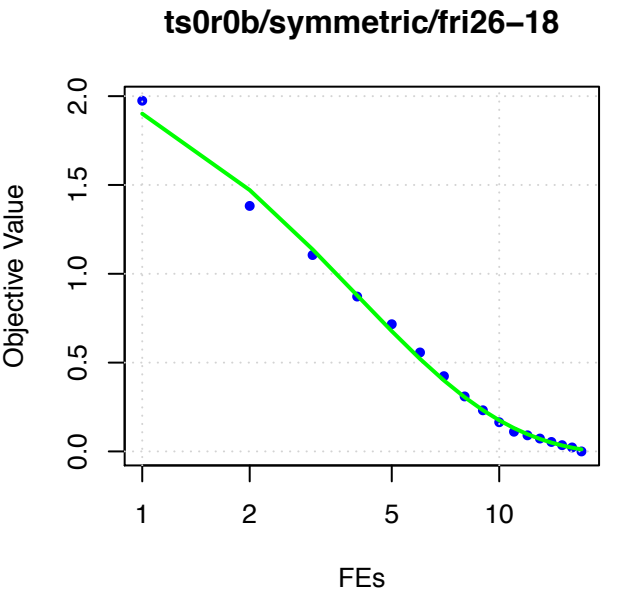
2
5
10
20
FEs


ts0r0b/symmetric/fri26−18
Objective Value
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2
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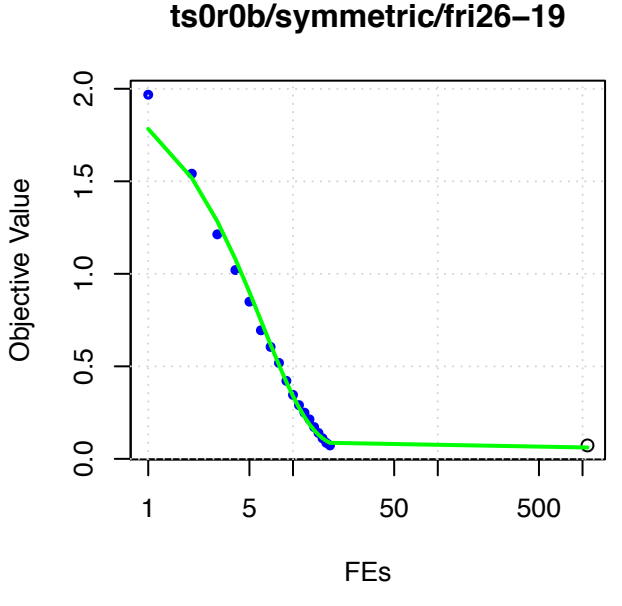
10
FEs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Objective Value
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1.0
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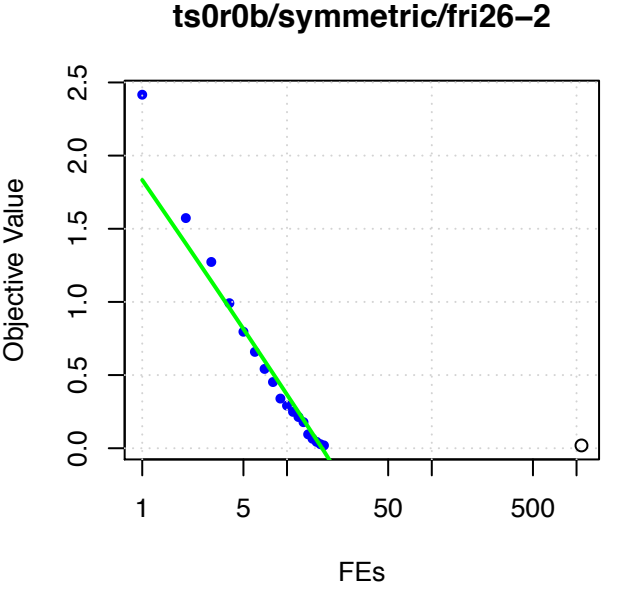
1
5
50
500
FEs


ts0r0b/symmetric/fri26−2
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1.5
2.0
2.5
1
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50
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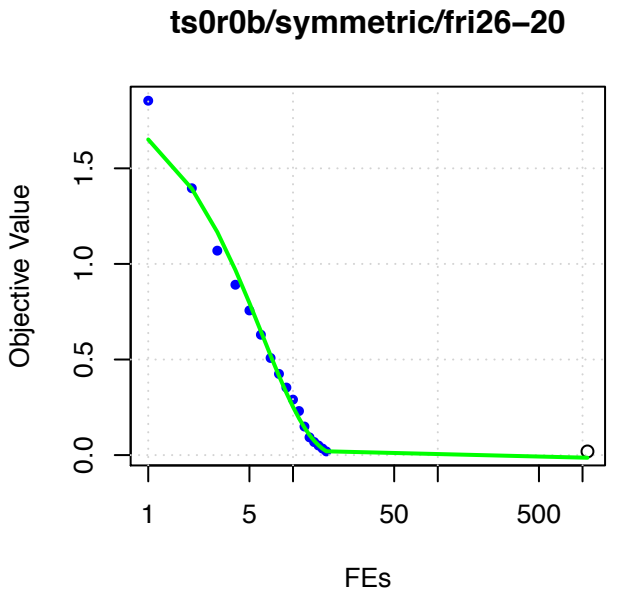
FEs


ts0r0b/symmetric/fri26−20
Objective Value
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1
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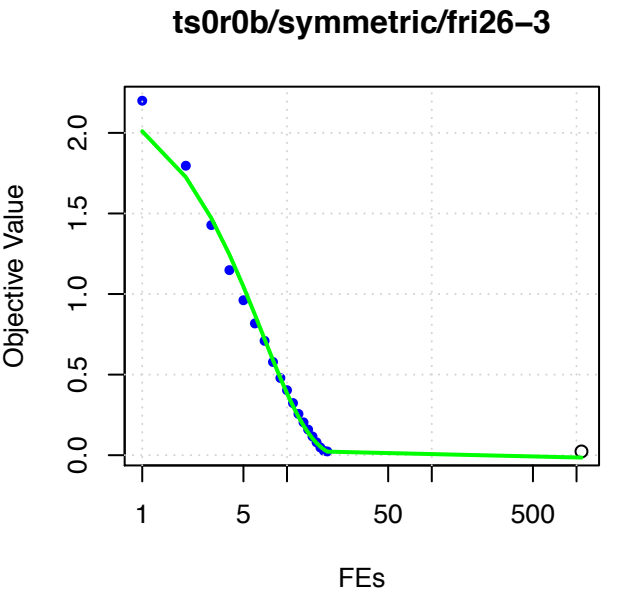
500
FEs


ts0r0b/symmetric/fri26−3
Objective Value
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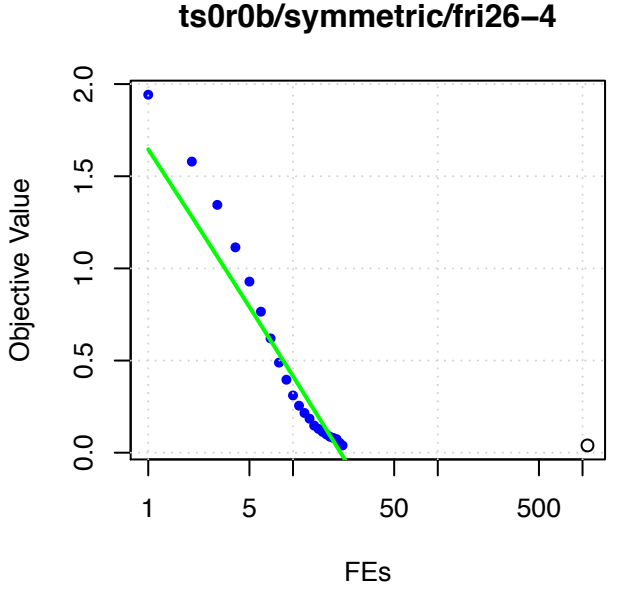
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0b/symmetric/fri26−4
Objective Value
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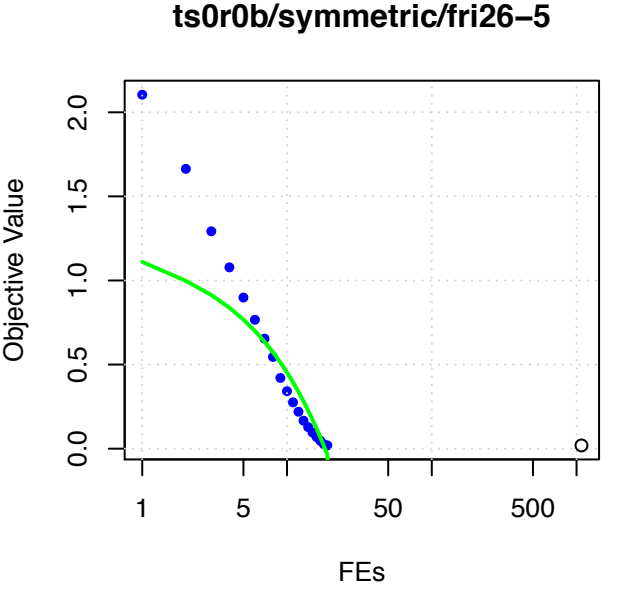
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0b/symmetric/fri26−5
Objective Value
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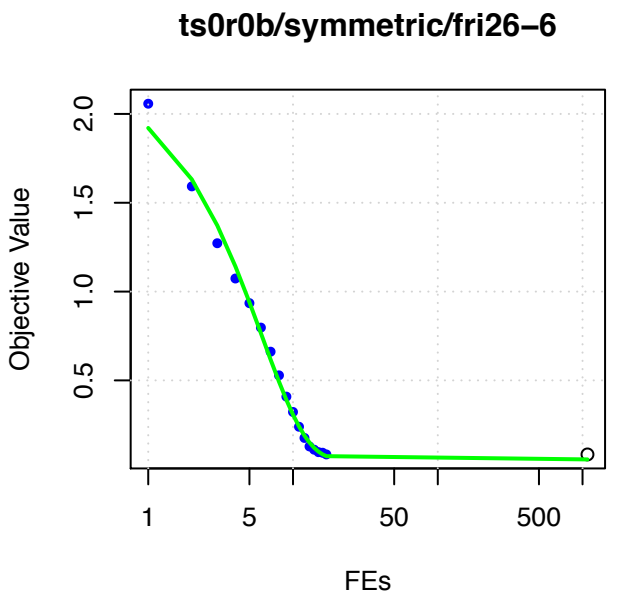
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0b/symmetric/fri26−6
Objective Value
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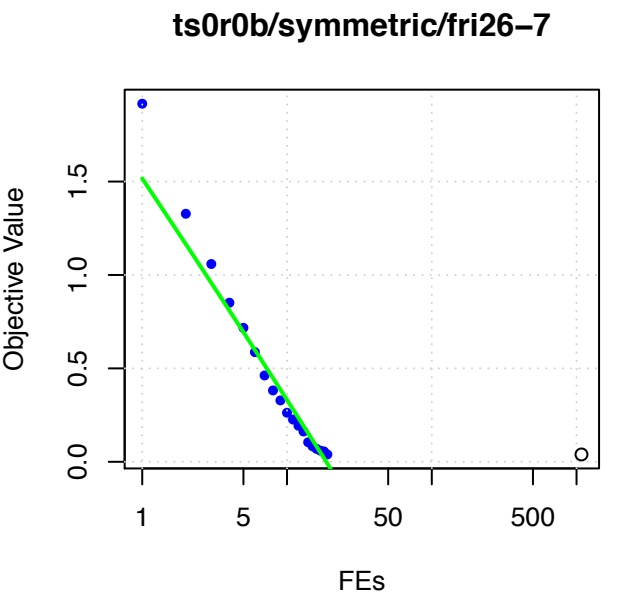
1.5
2.0
1
5
50
500
FEs


ts0r0b/symmetric/fri26−7
Objective Value
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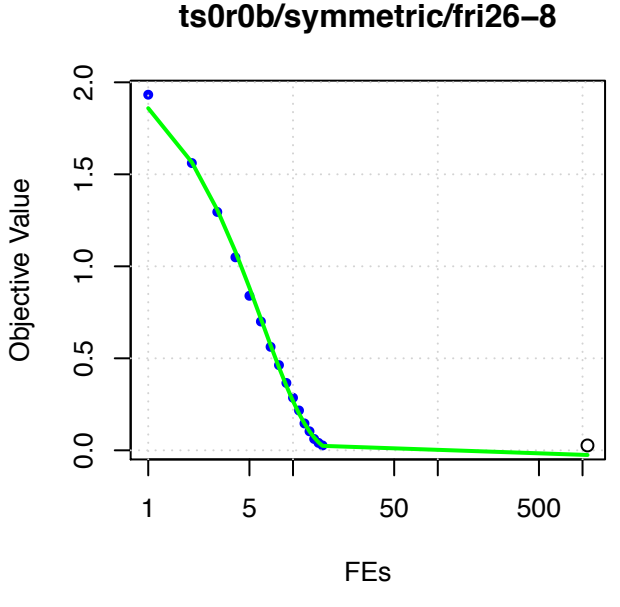
1.0
1.5
1
5
50
500
FEs


ts0r0b/symmetric/fri26−8
Objective Value
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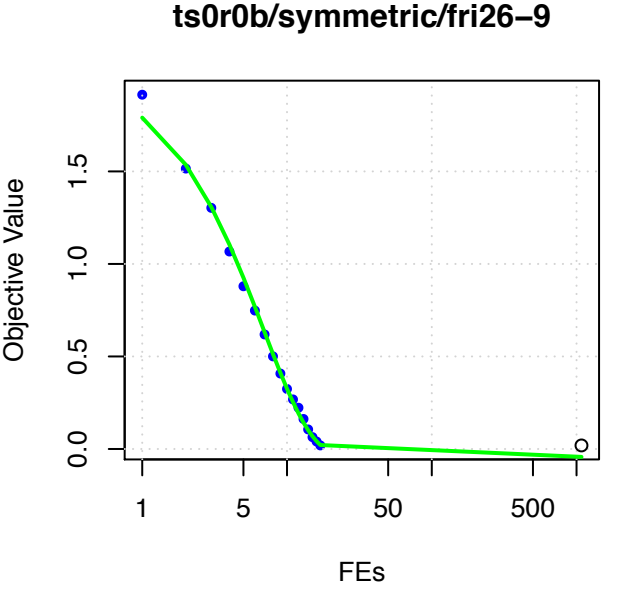
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0b/symmetric/fri26−9
Objective Value
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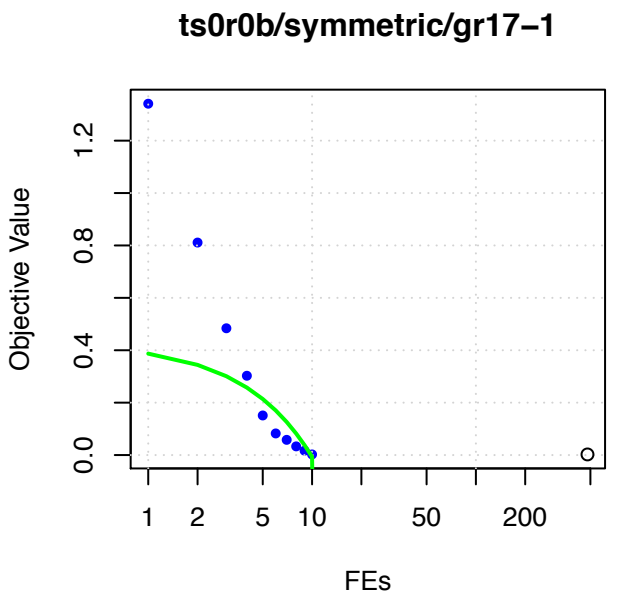
1.0
1.5
1
5
50
500
FEs


ts0r0b/symmetric/gr17−1
Objective Value
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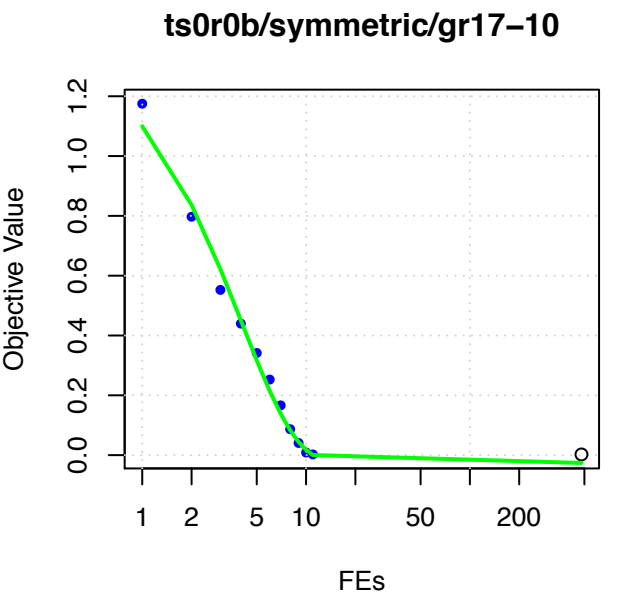
0.8
1.2
1
2
5
10
50
200
FEs


ts0r0b/symmetric/gr17−10
Objective Value
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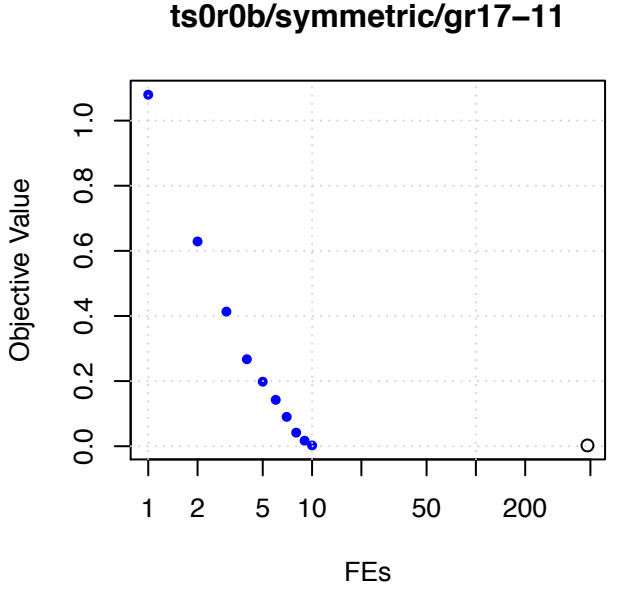
0.4
0.6
0.8
1.0
1.2
1
2
5
10
50
200
FEs


ts0r0b/symmetric/gr17−11
Objective Value
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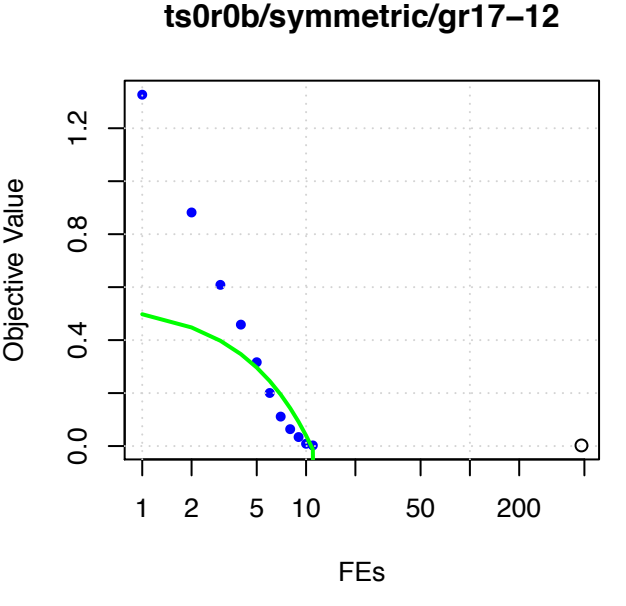
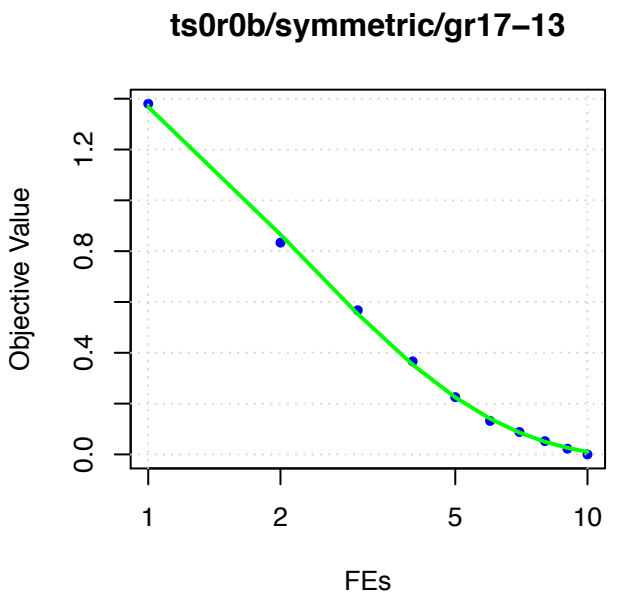
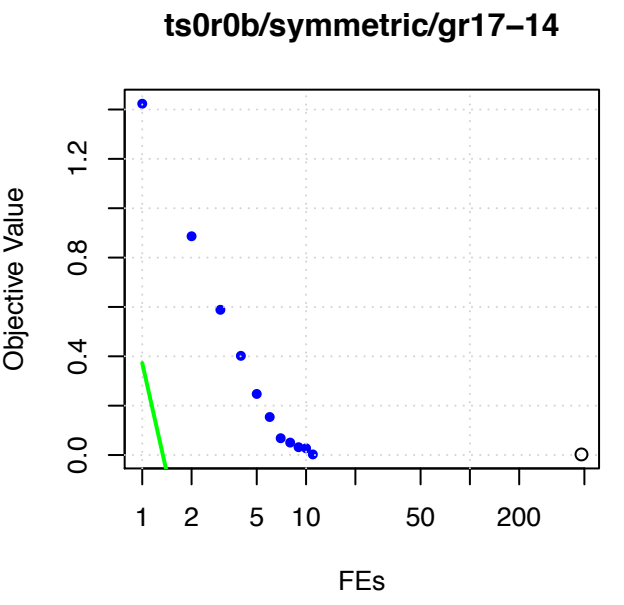
0.2
0.4
0.6
0.8
1.0
1
2
5
10
50
200
FEs


ts0r0b/symmetric/gr17−12
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
50
200
FEs


ts0r0b/symmetric/gr17−13
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
FEs


ts0r0b/symmetric/gr17−14
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0.4
0.8
1.2
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2
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10
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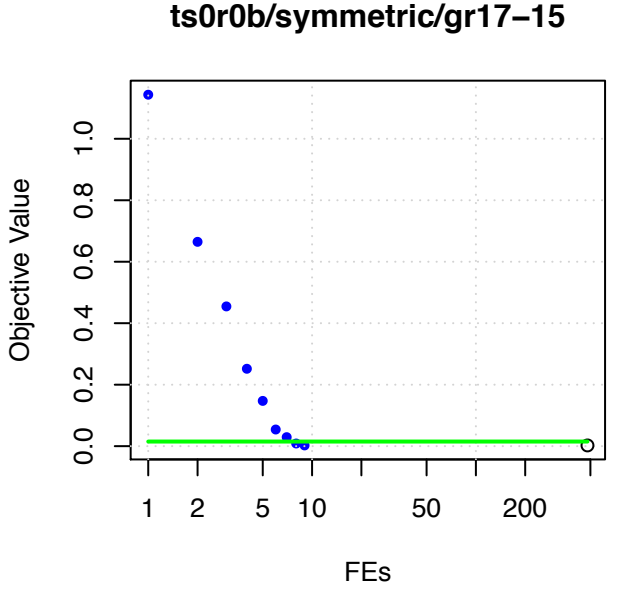
200
FEs


ts0r0b/symmetric/gr17−15
Objective Value
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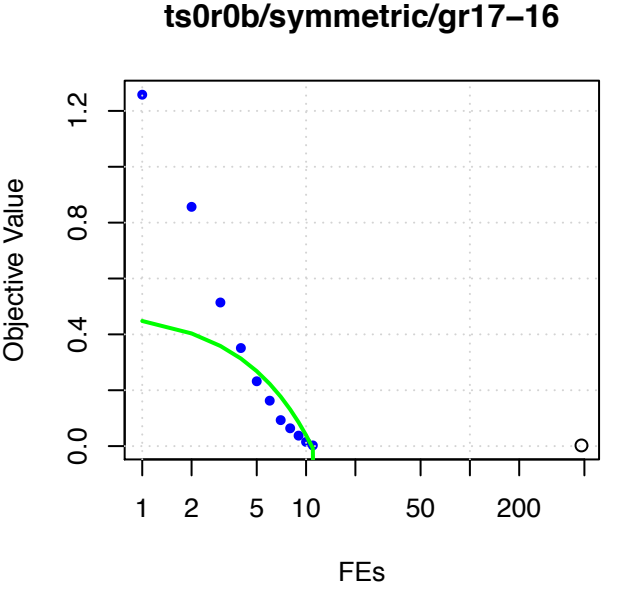
0.4
0.6
0.8
1.0
1
2
5
10
50
200
FEs


ts0r0b/symmetric/gr17−16
Objective Value
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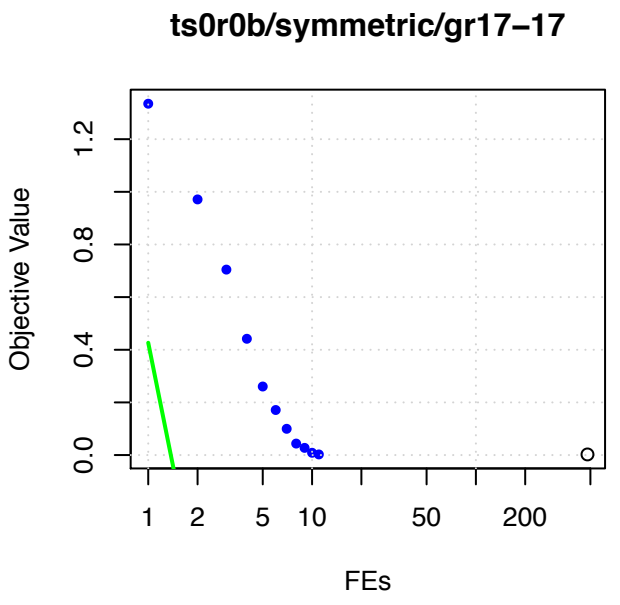
0.4
0.8
1.2
1
2
5
10
50
200
FEs


ts0r0b/symmetric/gr17−17
Objective Value
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0.8
1.2
1
2
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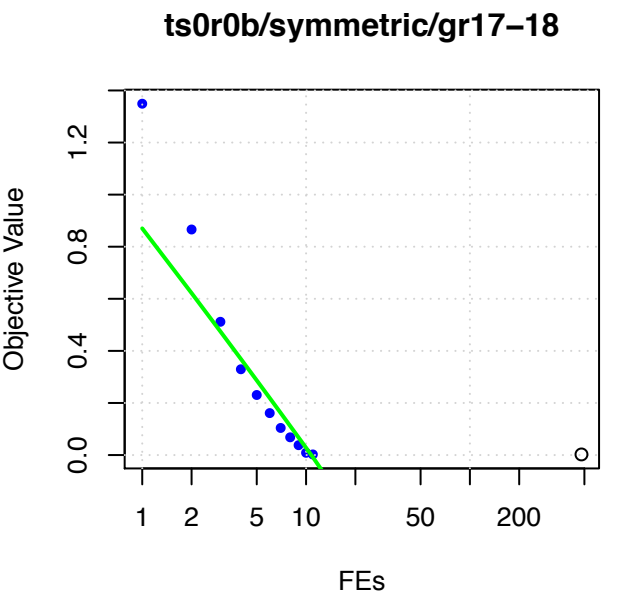
10
50
200
FEs


ts0r0b/symmetric/gr17−18
Objective Value
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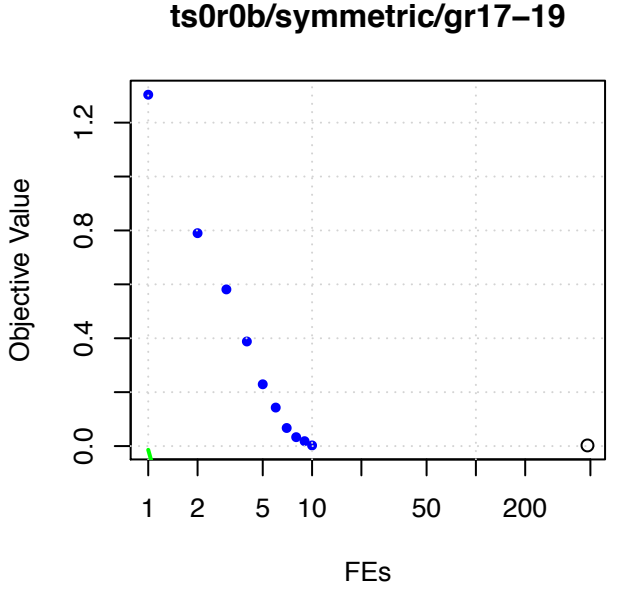
0.4
0.8
1.2
1
2
5
10
50
200
FEs


ts0r0b/symmetric/gr17−19
Objective Value
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0.4
0.8
1.2
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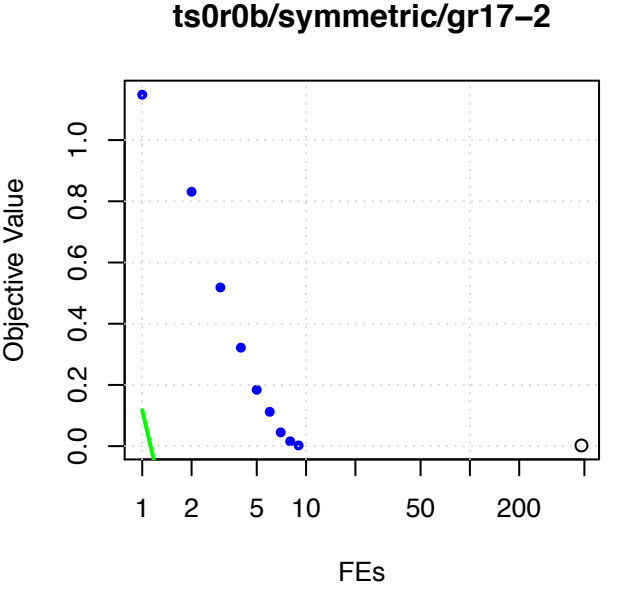
2
5
10
50
200
FEs


ts0r0b/symmetric/gr17−2
Objective Value
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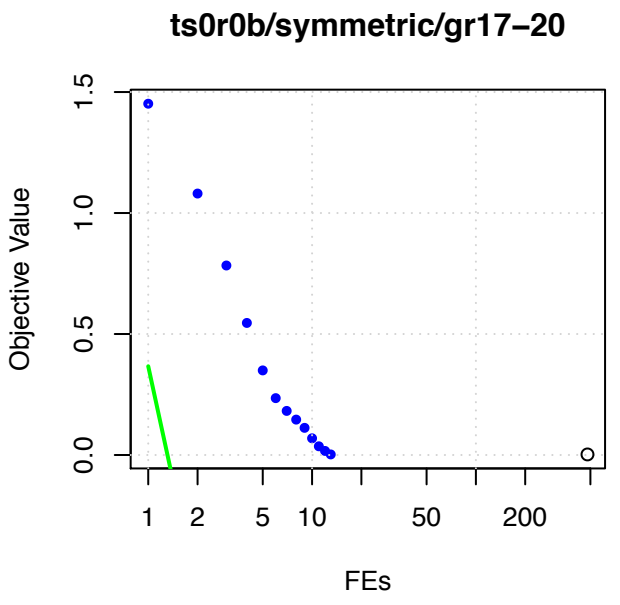
0.2
0.4
0.6
0.8
1.0
1
2
5
10
50
200
FEs


ts0r0b/symmetric/gr17−20
Objective Value
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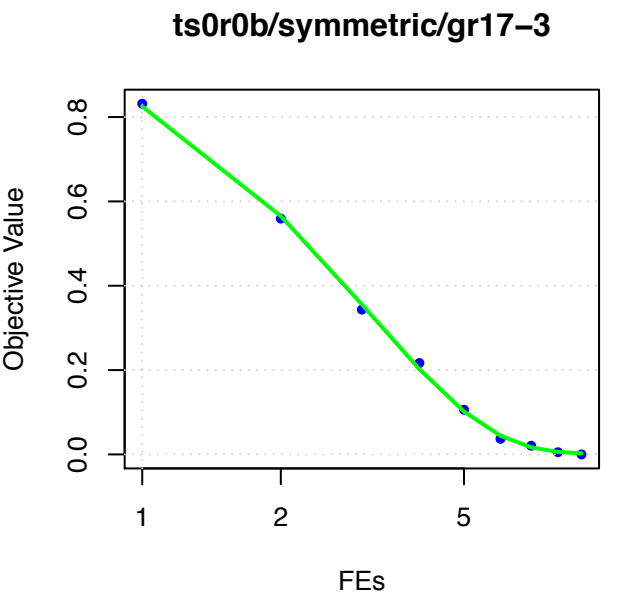
0.5
1.0
1.5
1
2
5
10
50
200
FEs


ts0r0b/symmetric/gr17−3
Objective Value
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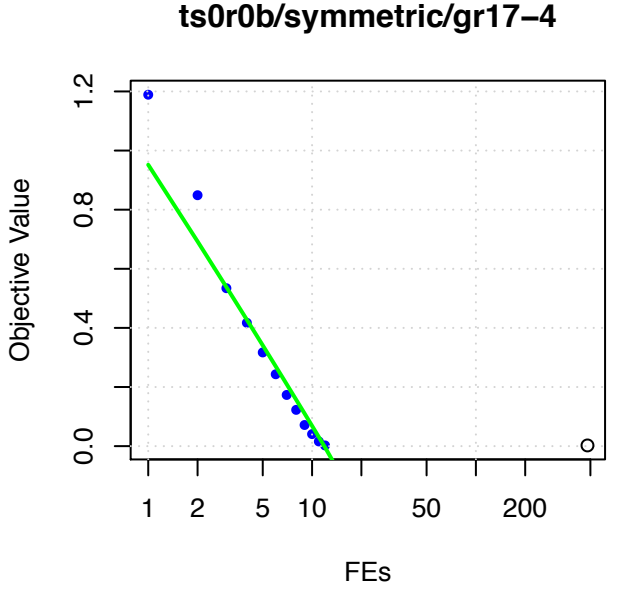
0.2
0.4
0.6
0.8
1
2
5
FEs


ts0r0b/symmetric/gr17−4
Objective Value
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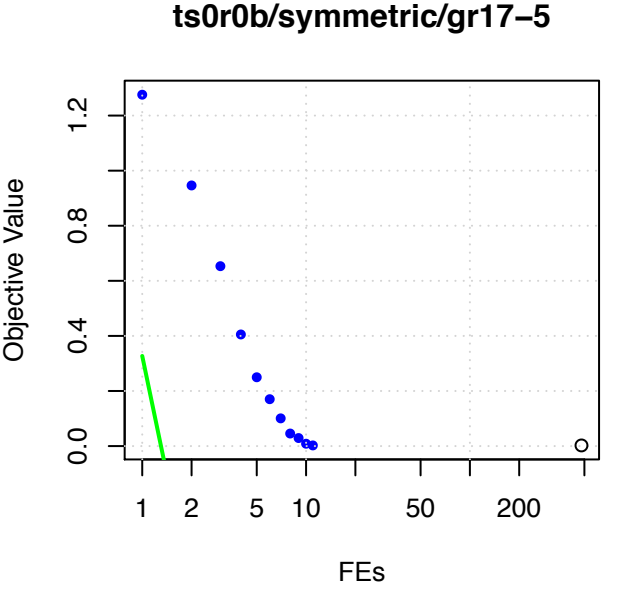
0.4
0.8
1.2
1
2
5
10
50
200
FEs


ts0r0b/symmetric/gr17−5
Objective Value
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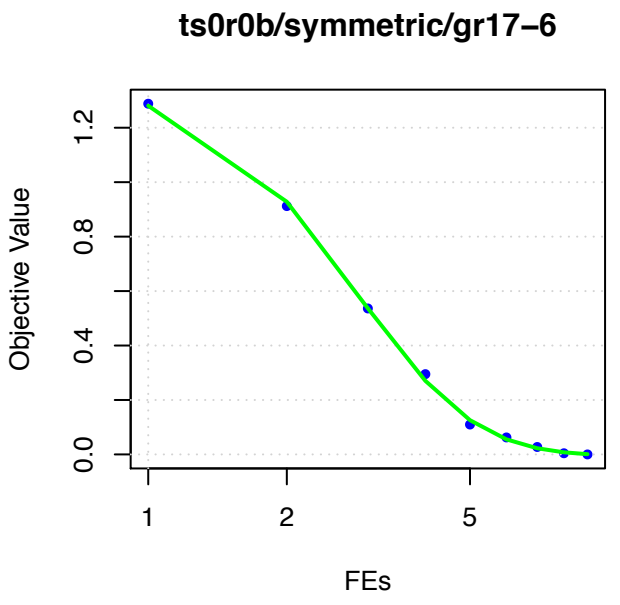
0.4
0.8
1.2
1
2
5
10
50
200
FEs


ts0r0b/symmetric/gr17−6
Objective Value
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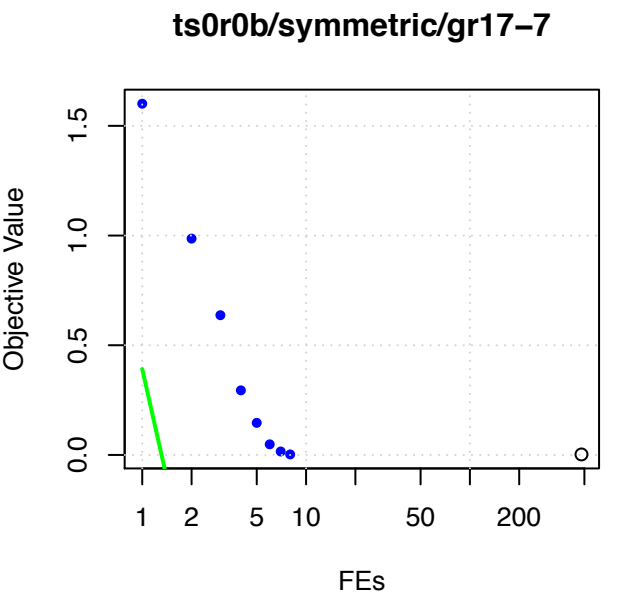
0.4
0.8
1.2
1
2
5
FEs


ts0r0b/symmetric/gr17−7
Objective Value
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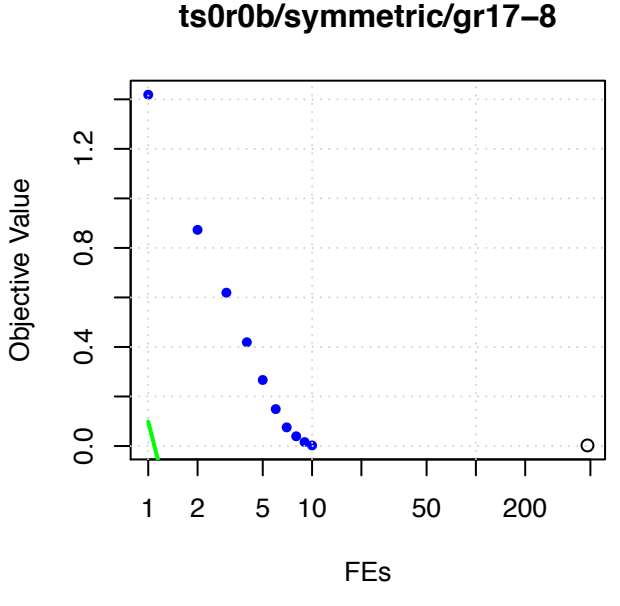
0.5
1.0
1.5
1
2
5
10
50
200
FEs


ts0r0b/symmetric/gr17−8
Objective Value
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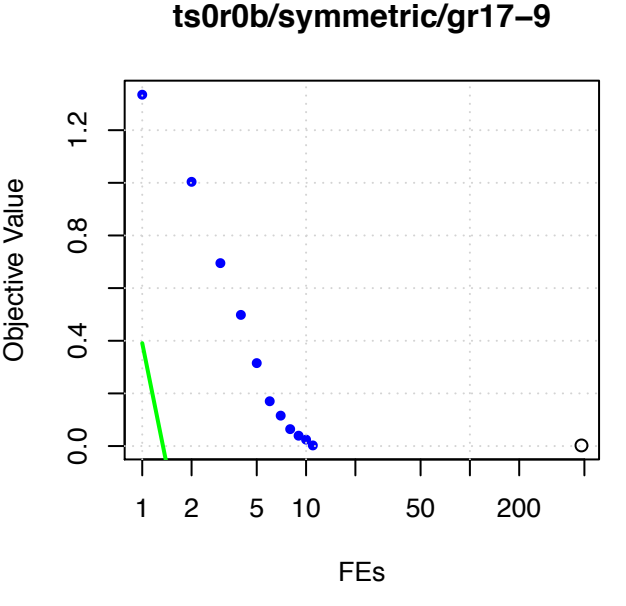
0.4
0.8
1.2
1
2
5
10
50
200
FEs


ts0r0b/symmetric/gr17−9
Objective Value
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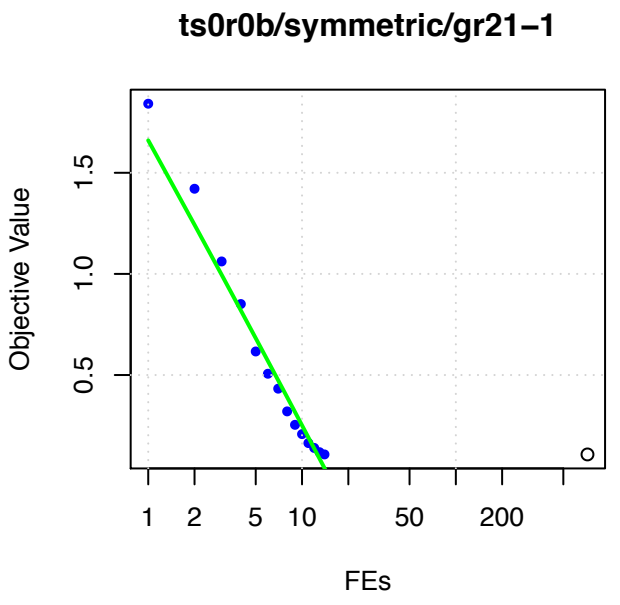
0.4
0.8
1.2
1
2
5
10
50
200
FEs


ts0r0b/symmetric/gr21−1
Objective Value
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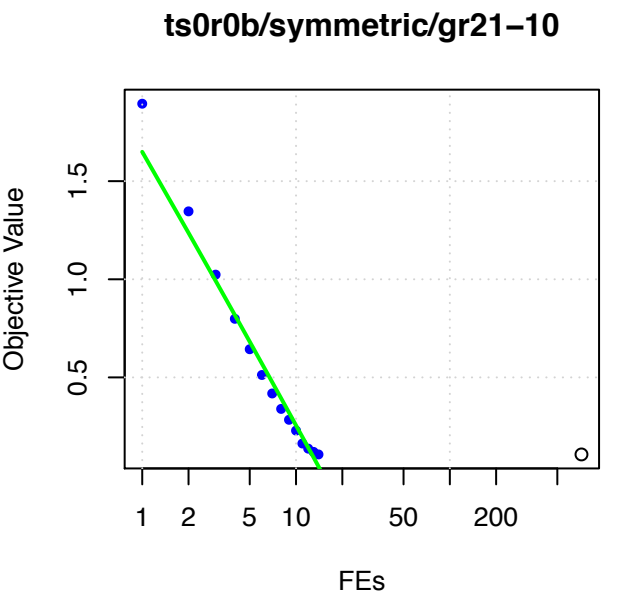
1.0
1.5
1
2
5
10
50
200
FEs


ts0r0b/symmetric/gr21−10
Objective Value
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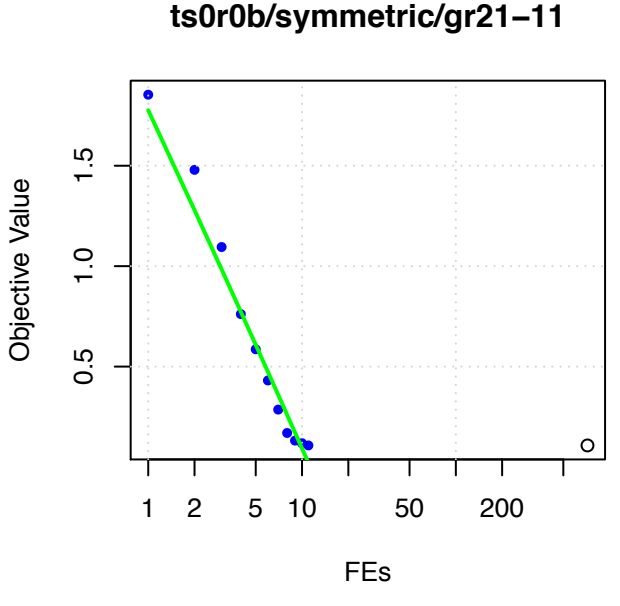
1.0
1.5
1
2
5
10
50
200
FEs


ts0r0b/symmetric/gr21−11
Objective Value
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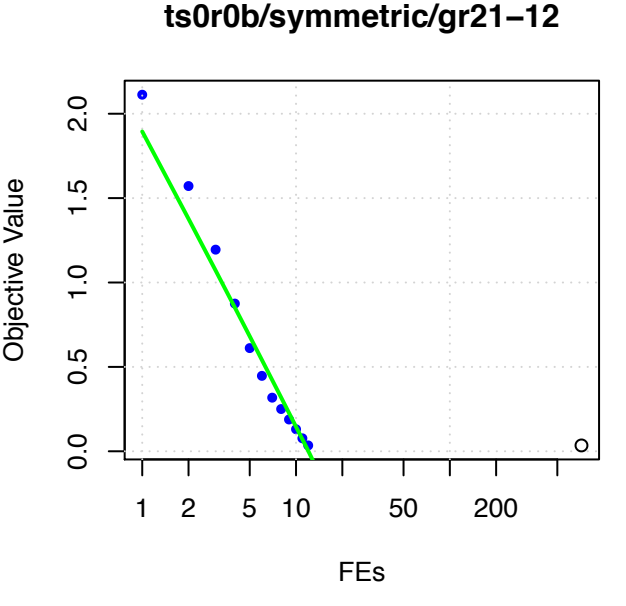
1.0
1.5
1
2
5
10
50
200
FEs


ts0r0b/symmetric/gr21−12
Objective Value
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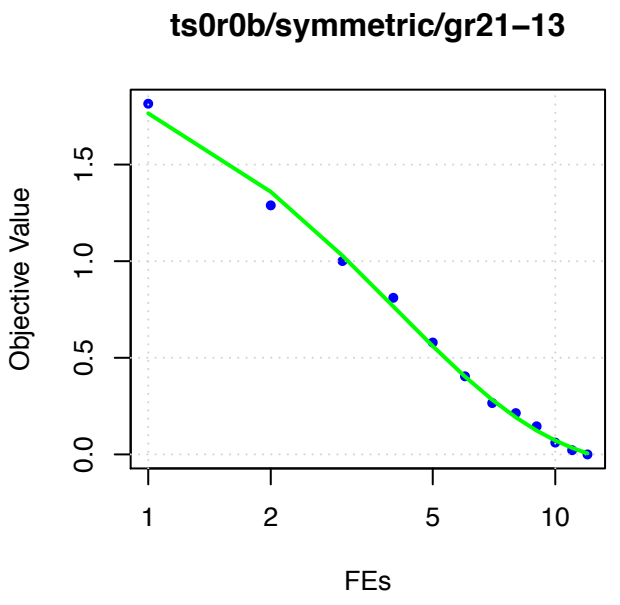
1.0
1.5
2.0
1
2
5
10
50
200
FEs


ts0r0b/symmetric/gr21−13
Objective Value
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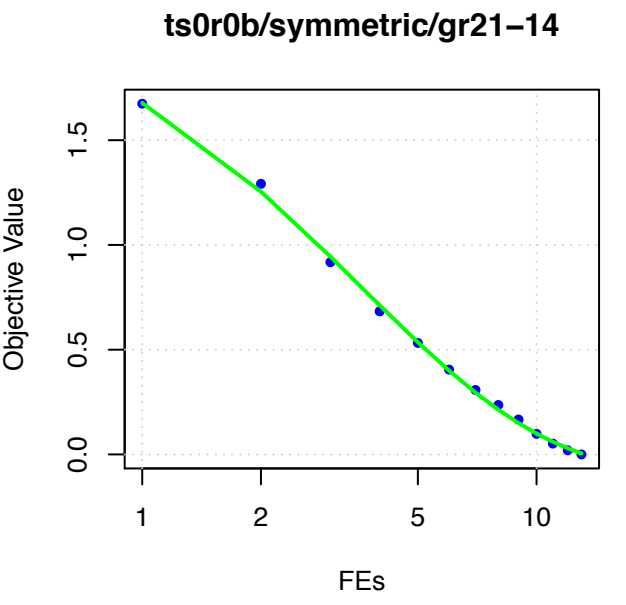
0.5
1.0
1.5
1
2
5
10
FEs


ts0r0b/symmetric/gr21−14
Objective Value
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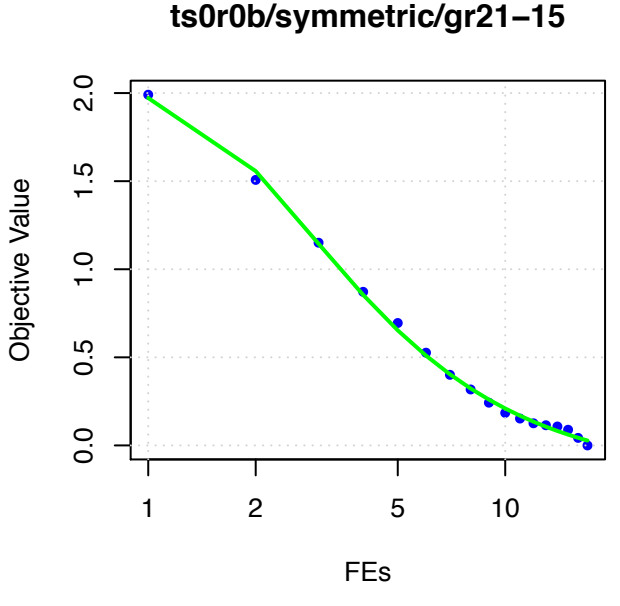
0.5
1.0
1.5
1
2
5
10
FEs


ts0r0b/symmetric/gr21−15
Objective Value
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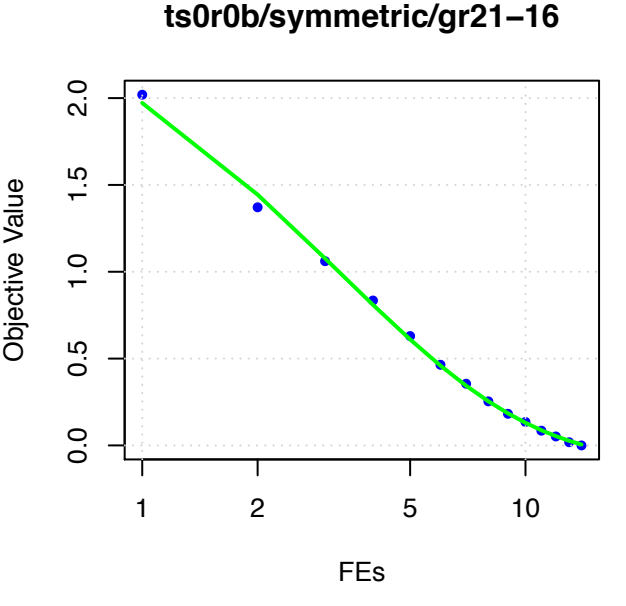
1.0
1.5
2.0
1
2
5
10
FEs


ts0r0b/symmetric/gr21−16
Objective Value
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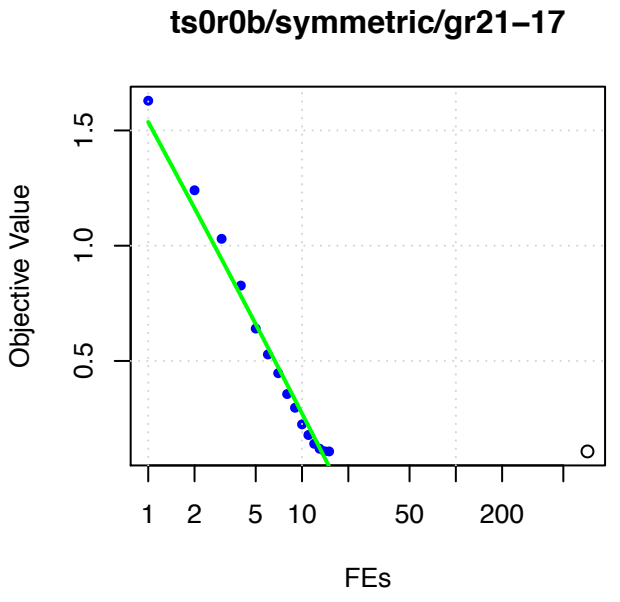
1.0
1.5
2.0
1
2
5
10
FEs


ts0r0b/symmetric/gr21−17
Objective Value
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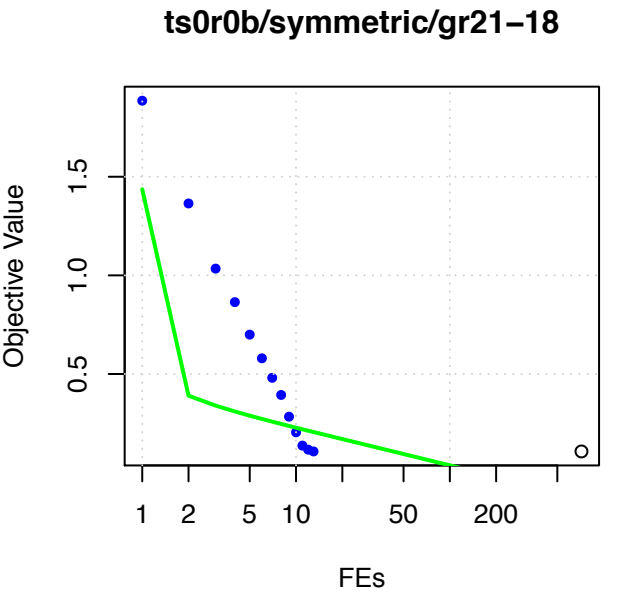
1.0
1.5
1
2
5
10
50
200
FEs


ts0r0b/symmetric/gr21−18
Objective Value
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1
2
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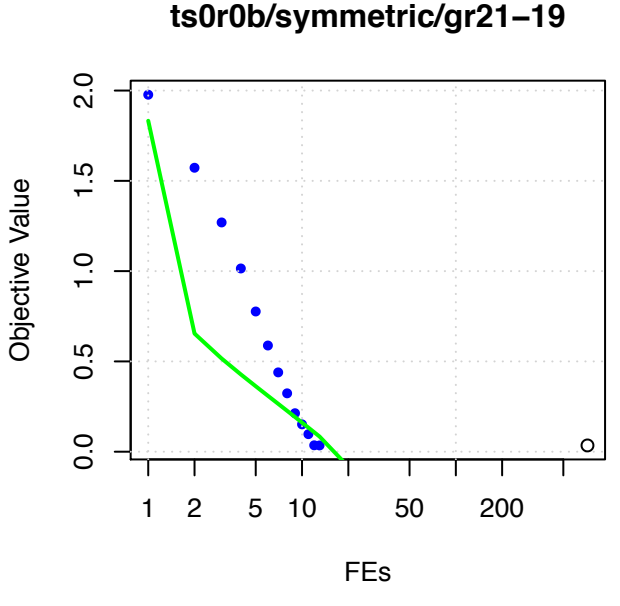
10
50
200
FEs


ts0r0b/symmetric/gr21−19
Objective Value
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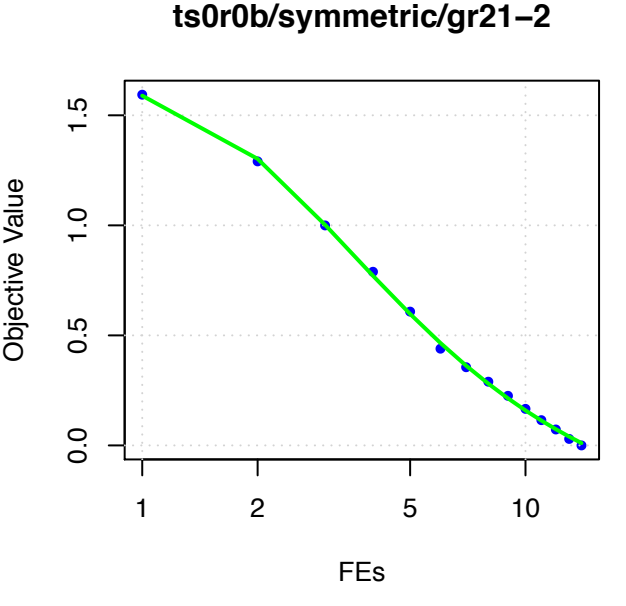
1.0
1.5
2.0
1
2
5
10
50
200
FEs


ts0r0b/symmetric/gr21−2
Objective Value
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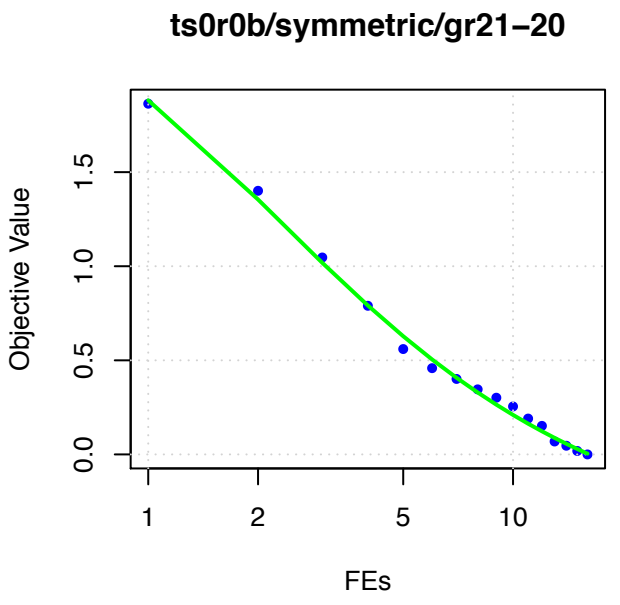
1.0
1.5
1
2
5
10
FEs


ts0r0b/symmetric/gr21−20
Objective Value
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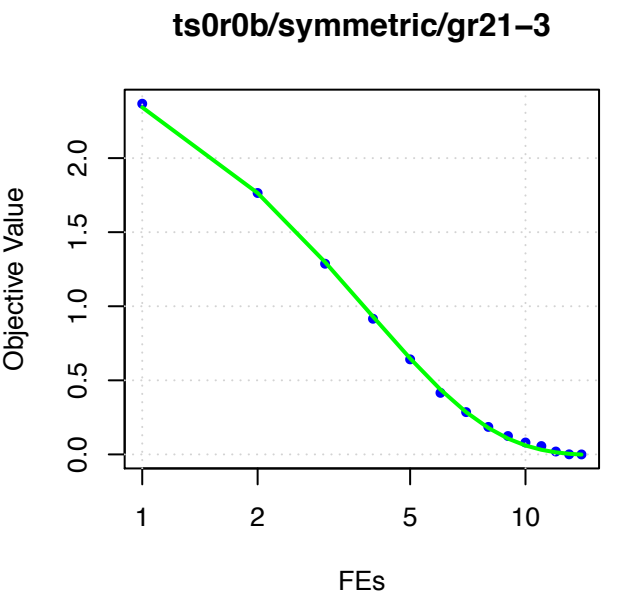
1.0
1.5
1
2
5
10
FEs


ts0r0b/symmetric/gr21−3
Objective Value
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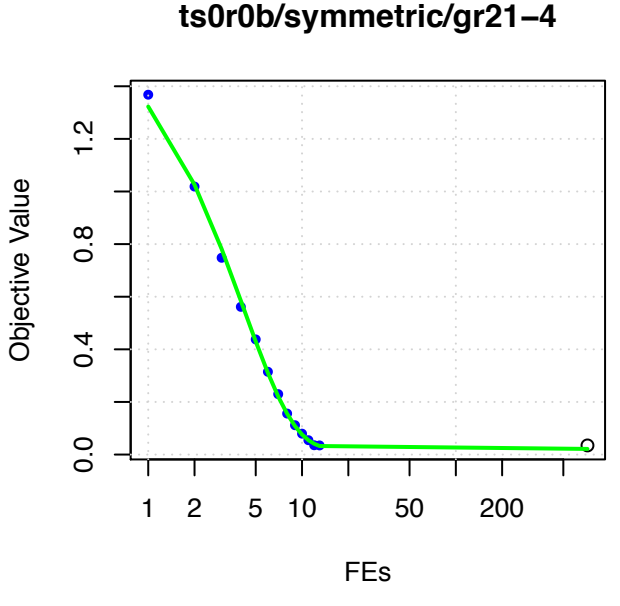
1.0
1.5
2.0
1
2
5
10
FEs


ts0r0b/symmetric/gr21−4
Objective Value
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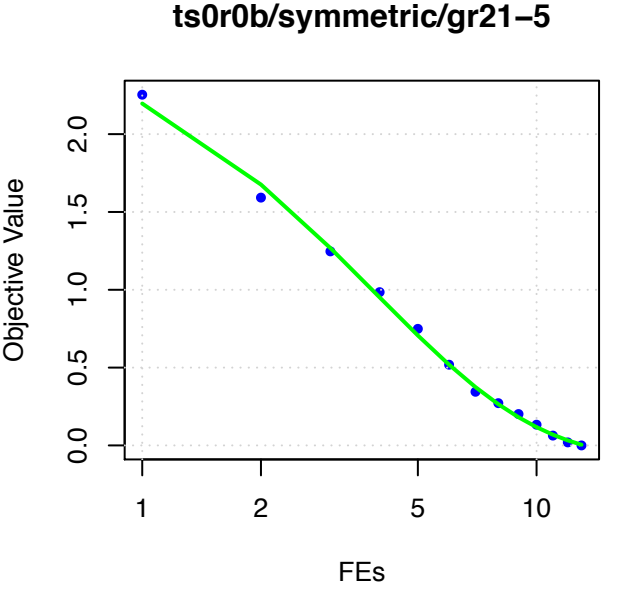
0.4
0.8
1.2
1
2
5
10
50
200
FEs


ts0r0b/symmetric/gr21−5
Objective Value
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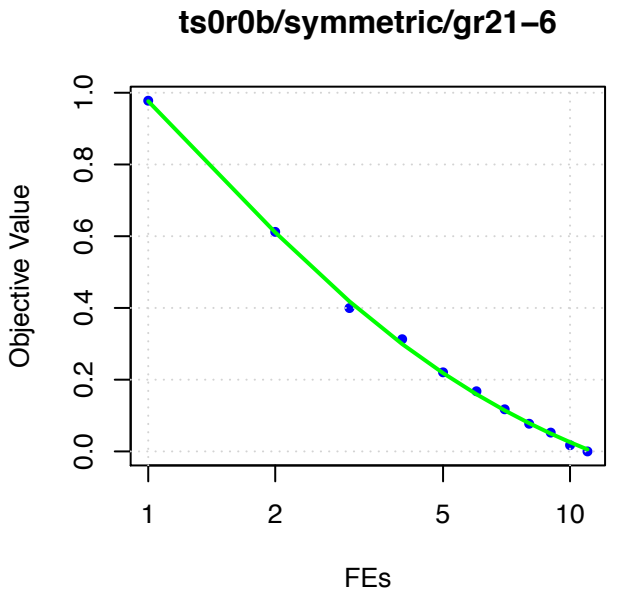
1.0
1.5
2.0
1
2
5
10
FEs


ts0r0b/symmetric/gr21−6
Objective Value
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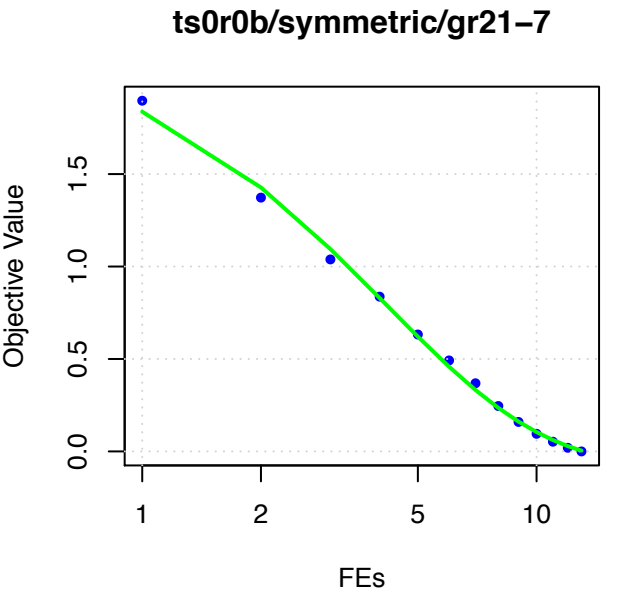
0.4
0.6
0.8
1.0
1
2
5
10
FEs


ts0r0b/symmetric/gr21−7
Objective Value
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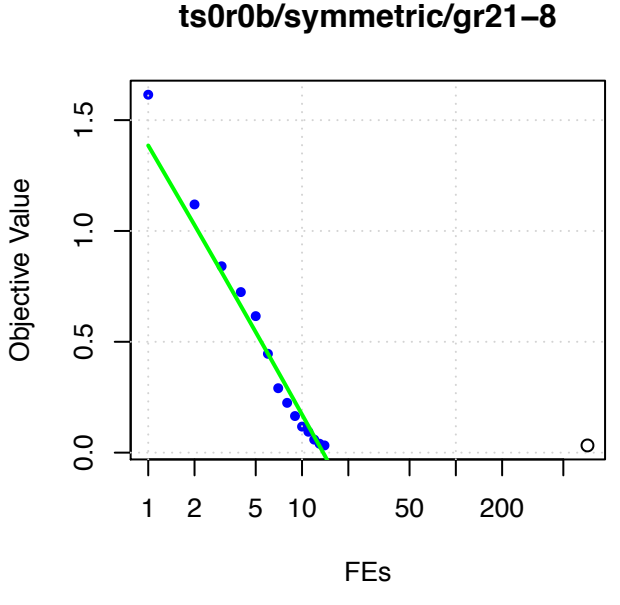
0.5
1.0
1.5
1
2
5
10
FEs


ts0r0b/symmetric/gr21−8
Objective Value
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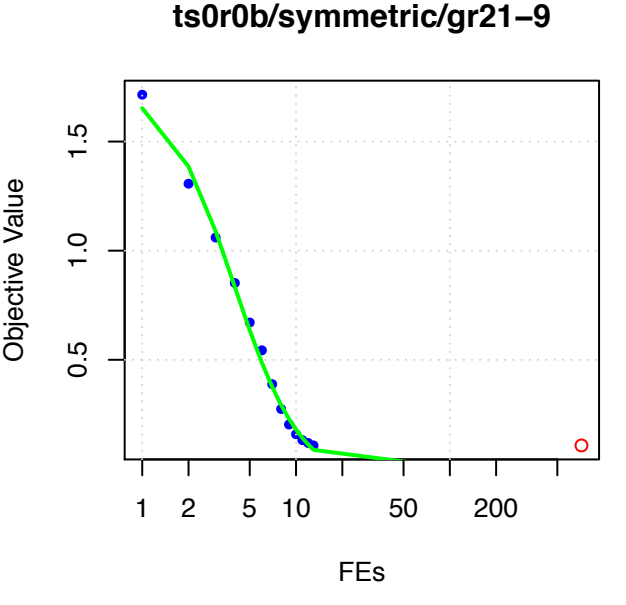
0.5
1.0
1.5
1
2
5
10
50
200
FEs


ts0r0b/symmetric/gr21−9
Objective Value
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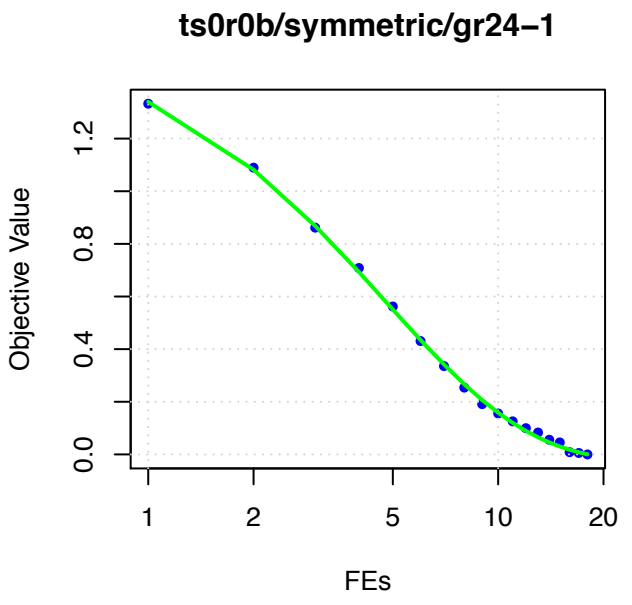
1.0
1.5
1
2
5
10
50
200
FEs


ts0r0b/symmetric/gr24−1
Objective Value
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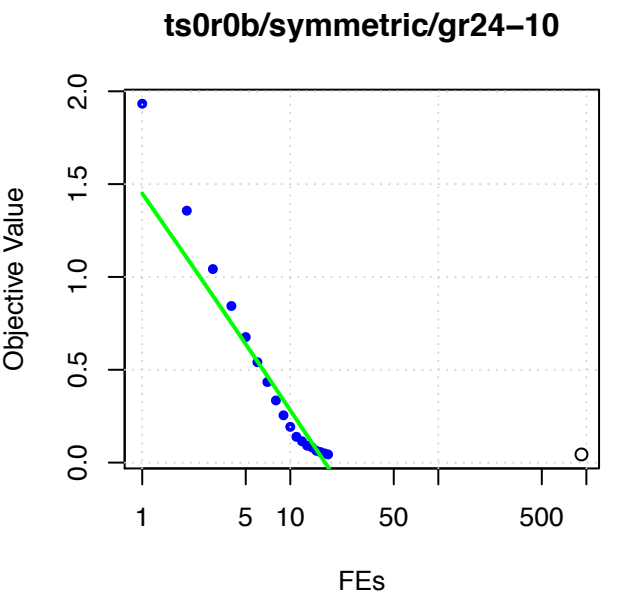
0.4
0.8
1.2
1
2
5
10
20
FEs


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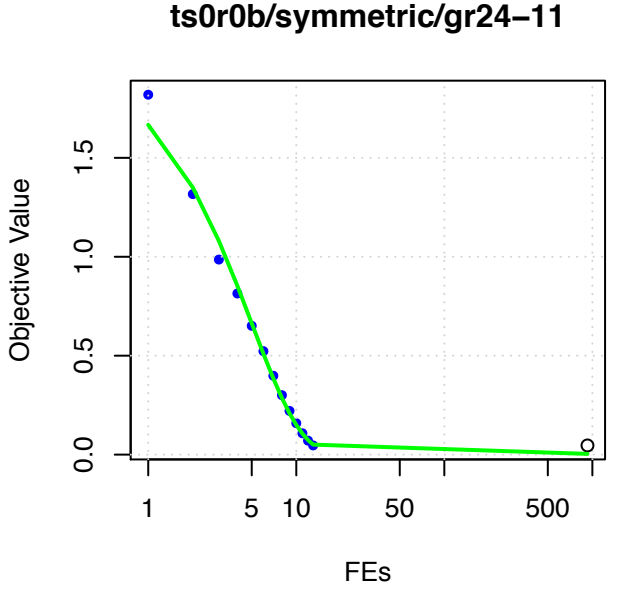
0.5
1.0
1.5
2.0
1
5
10
50
500
FEs


ts0r0b/symmetric/gr24−11
Objective Value
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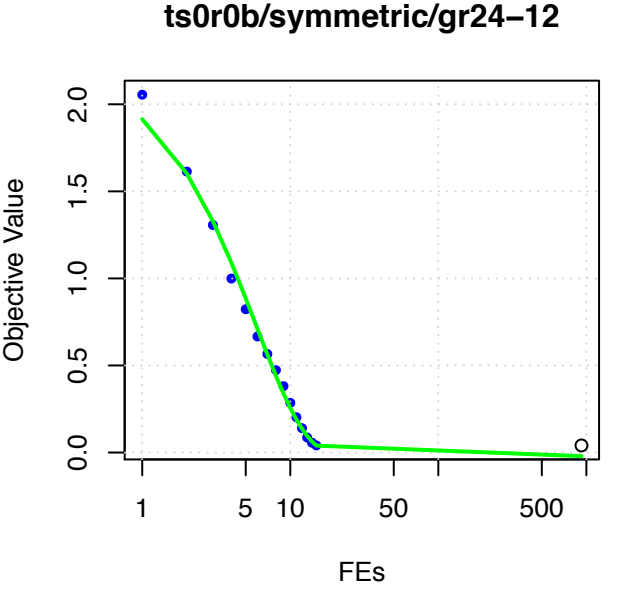
0.5
1.0
1.5
1
5
10
50
500
FEs


ts0r0b/symmetric/gr24−12
Objective Value
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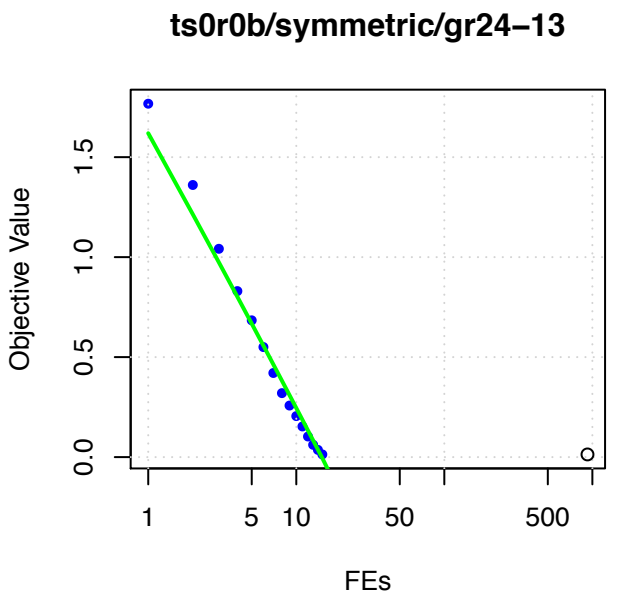
1.0
1.5
2.0
1
5
10
50
500
FEs


ts0r0b/symmetric/gr24−13
Objective Value
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0.5
1.0
1.5
1
5
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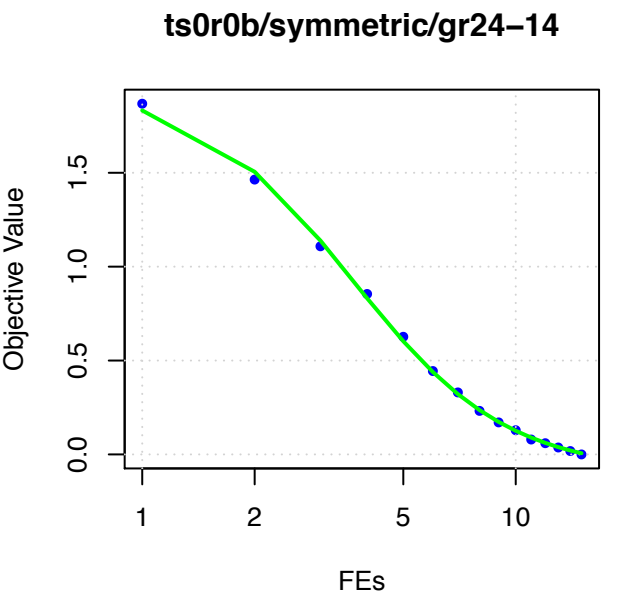
50
500
FEs


ts0r0b/symmetric/gr24−14
Objective Value
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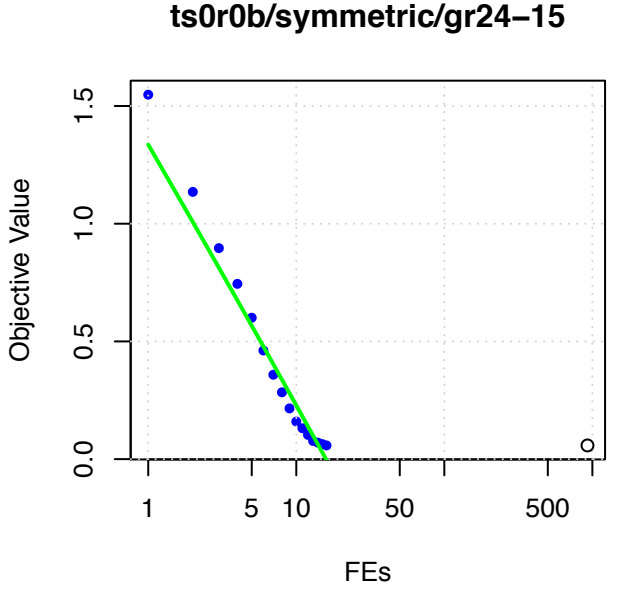
0.5
1.0
1.5
1
2
5
10
FEs


ts0r0b/symmetric/gr24−15
Objective Value
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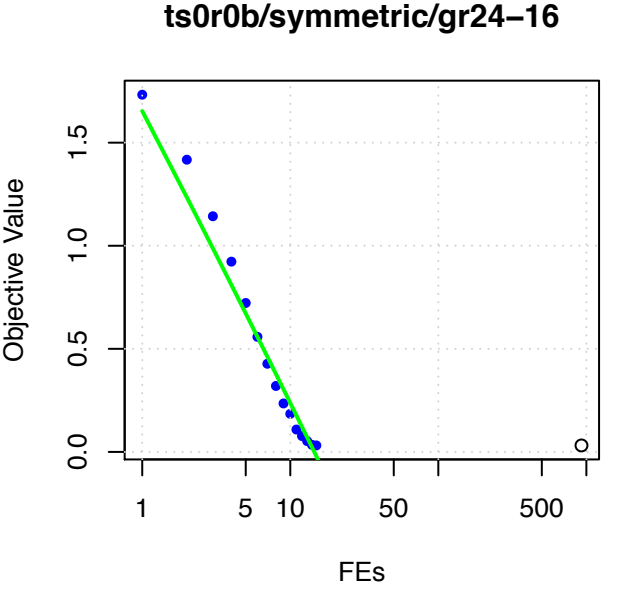
0.5
1.0
1.5
1
5
10
50
500
FEs


ts0r0b/symmetric/gr24−16
Objective Value
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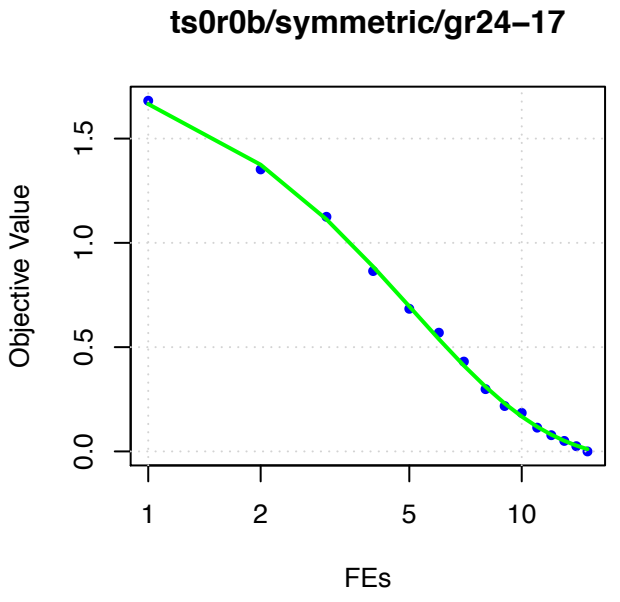
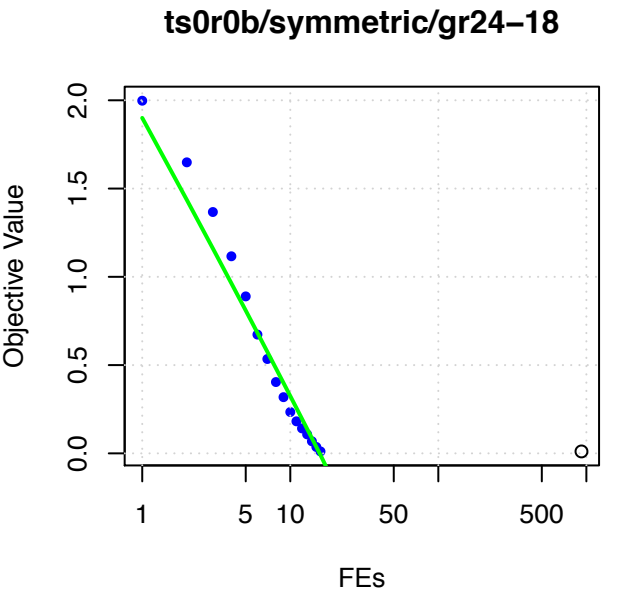
0.5
1.0
1.5
1
5
10
50
500
FEs


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


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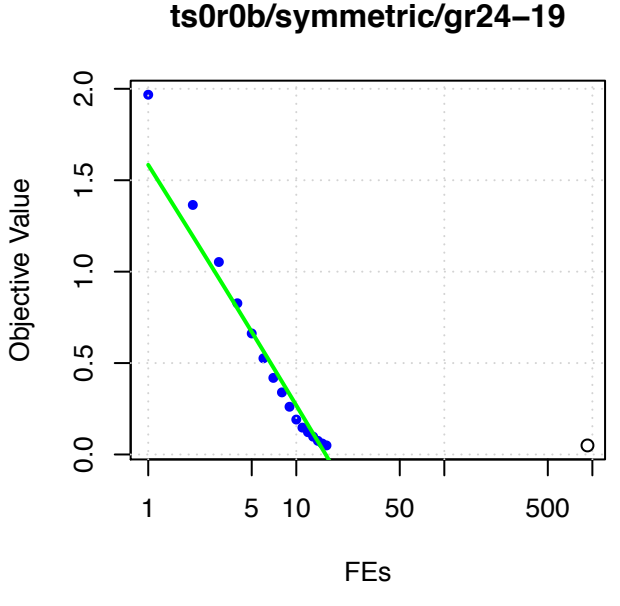
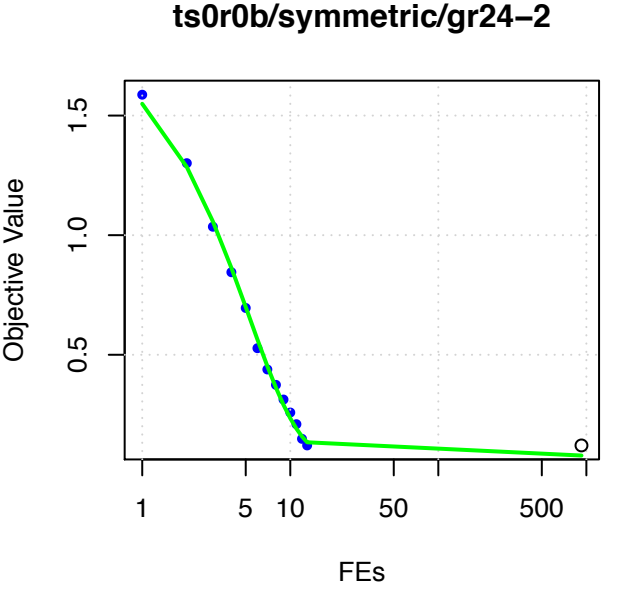
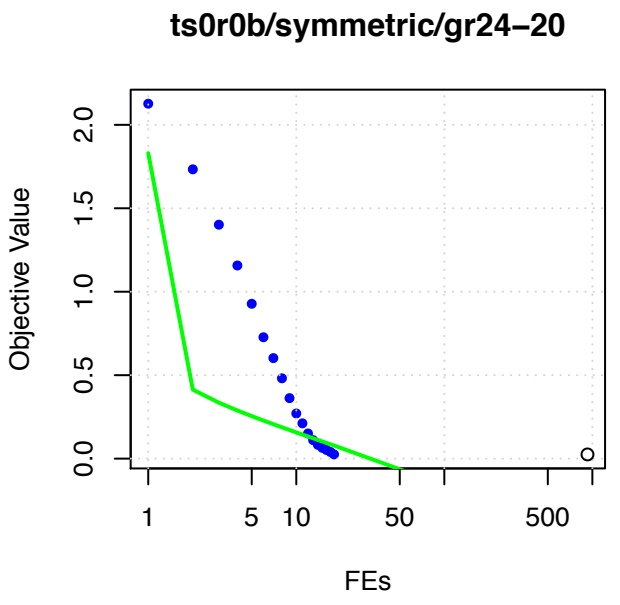
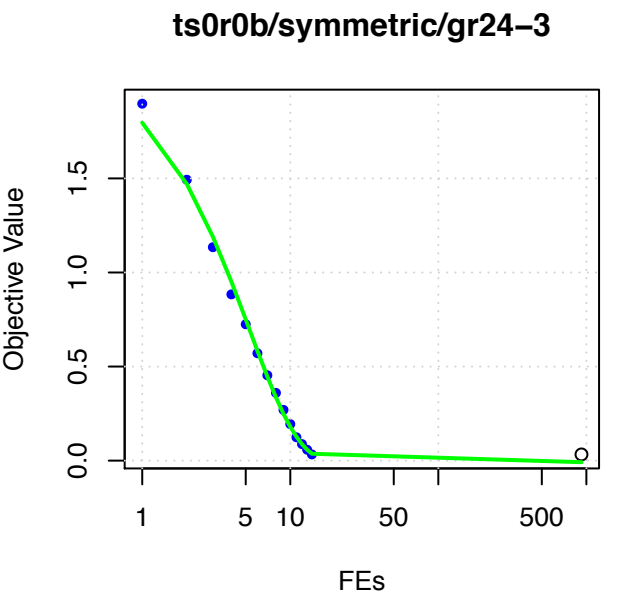
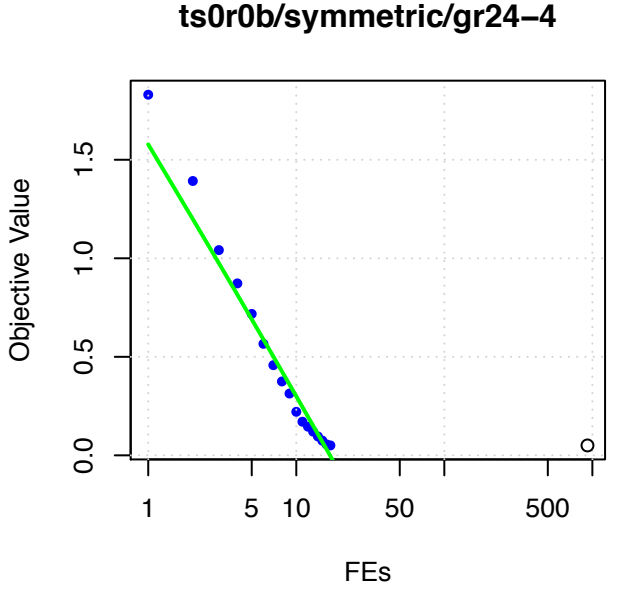
0.5
1.0
1.5
2.0
1
5
10
50
500
FEs

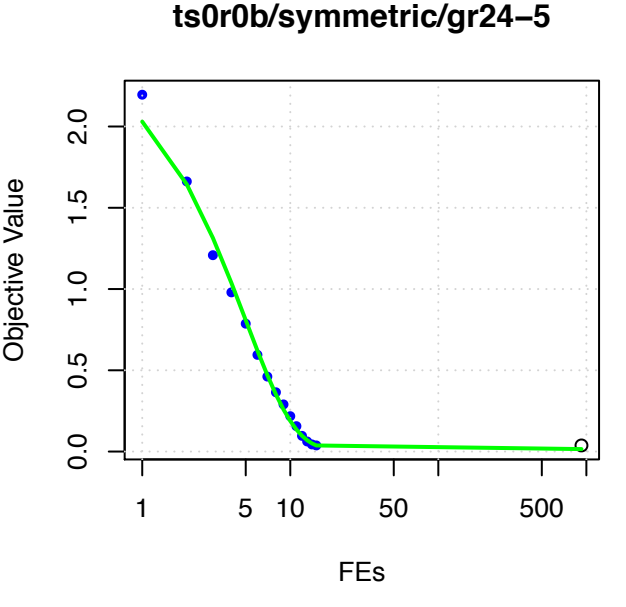

ts0r0b/symmetric/gr24−19
Objective Value
0.0
0.5
1.0
1.5
2.0
1
5
10
50
500
FEs

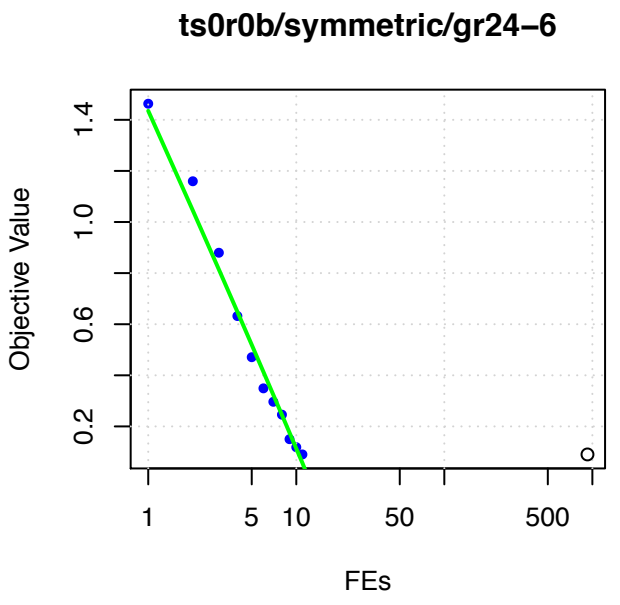

ts0r0b/symmetric/gr24−2
Objective Value
0.5
1.0
1.5
1
5
10
50
500
FEs

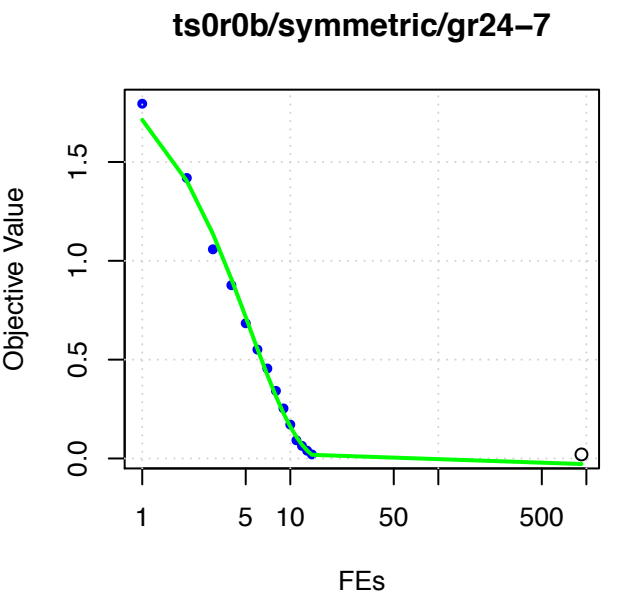

ts0r0b/symmetric/gr24−20
Objective Value
0.0
0.5
1.0
1.5
2.0
1
5
10
50
500
FEs

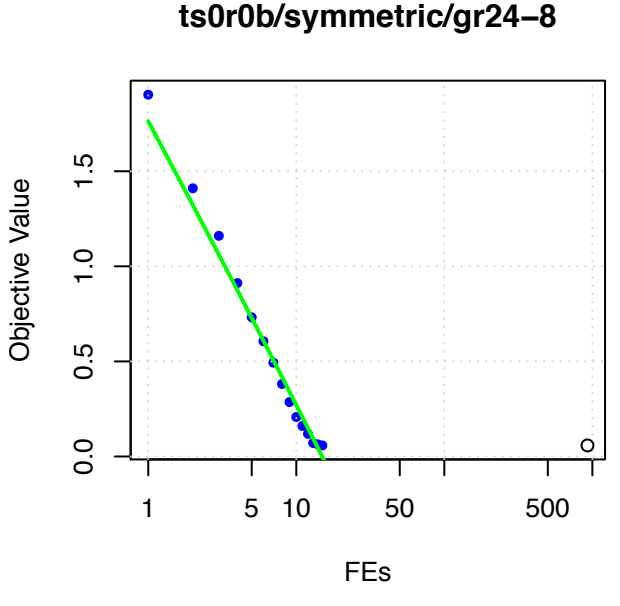

ts0r0b/symmetric/gr24−3
Objective Value
0.0
0.5
1.0
1.5
1
5
10
50
500
FEs

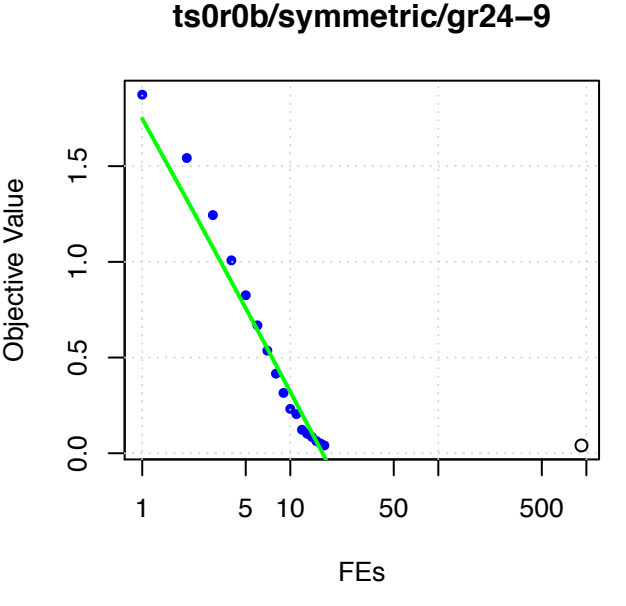

ts0r0b/symmetric/gr24−4
Objective Value
0.0
0.5
1.0
1.5
1
5
10
50
500
FEs

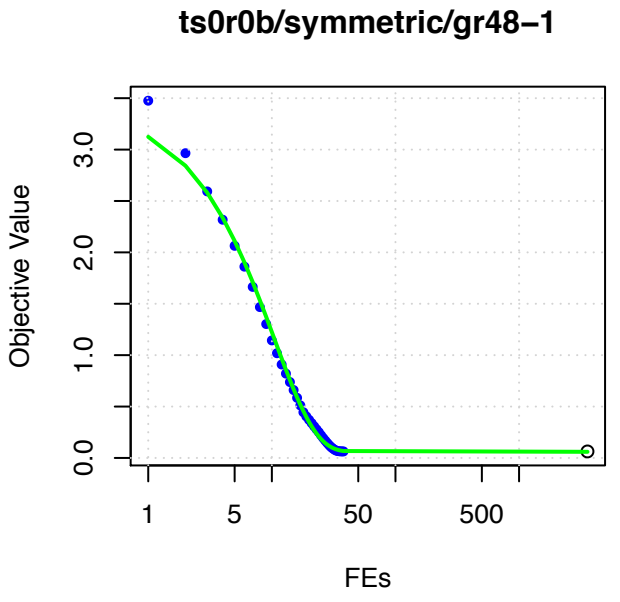

ts0r0b/symmetric/gr24−5
Objective Value
0.0
0.5
1.0
1.5
2.0
1
5
10
50
500
FEs

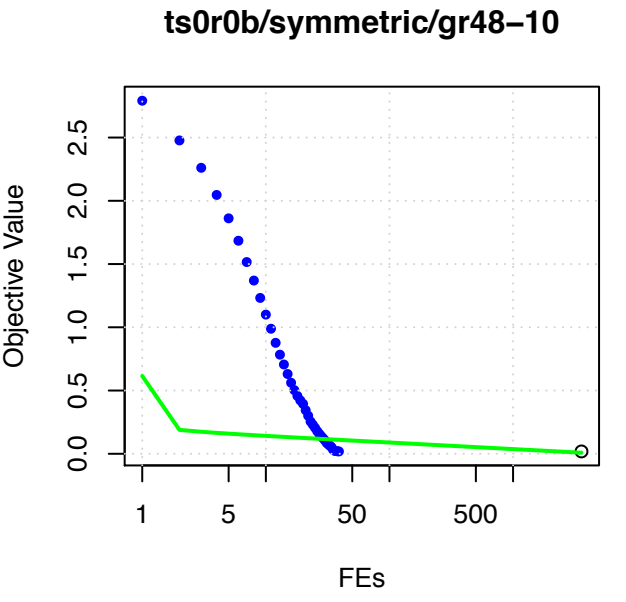

ts0r0b/symmetric/gr24−6
Objective Value
0.2
0.6
1.0
1.4
1
5
10
50
500
FEs

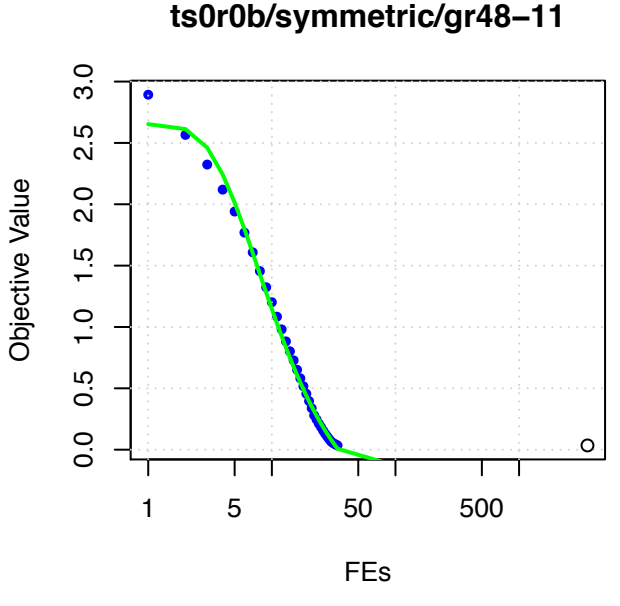

ts0r0b/symmetric/gr24−7
Objective Value
0.0
0.5
1.0
1.5
1
5
10
50
500
FEs


ts0r0b/symmetric/gr24−8
Objective Value
0.0
0.5
1.0
1.5
1
5
10
50
500
FEs


ts0r0b/symmetric/gr24−9
Objective Value
0.0
0.5
1.0
1.5
1
5
10
50
500
FEs


ts0r0b/symmetric/gr48−1
Objective Value
0.0
1.0
2.0
3.0
1
5
50
500
FEs


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


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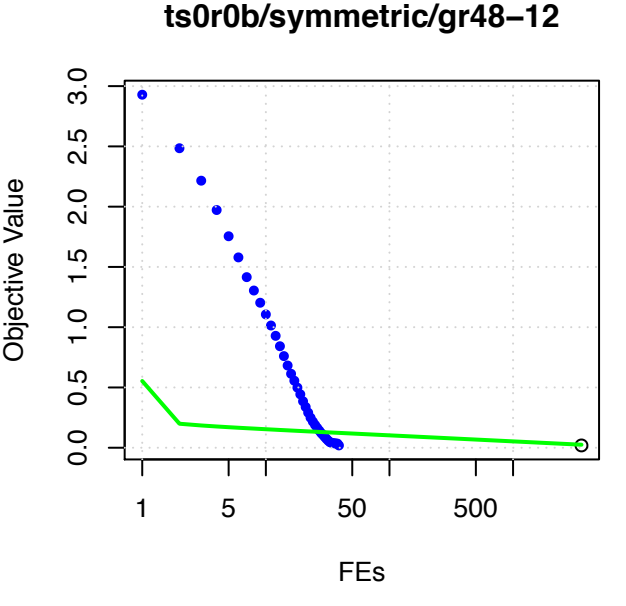
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
500
FEs


ts0r0b/symmetric/gr48−12
Objective Value
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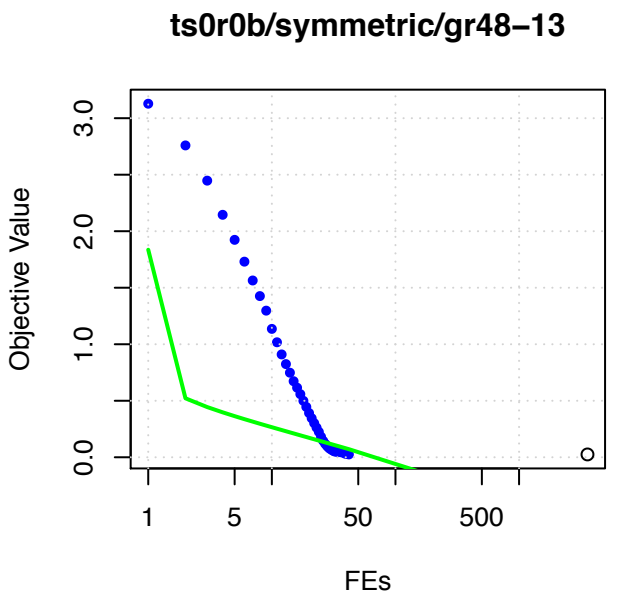
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
500
FEs


ts0r0b/symmetric/gr48−13
Objective Value
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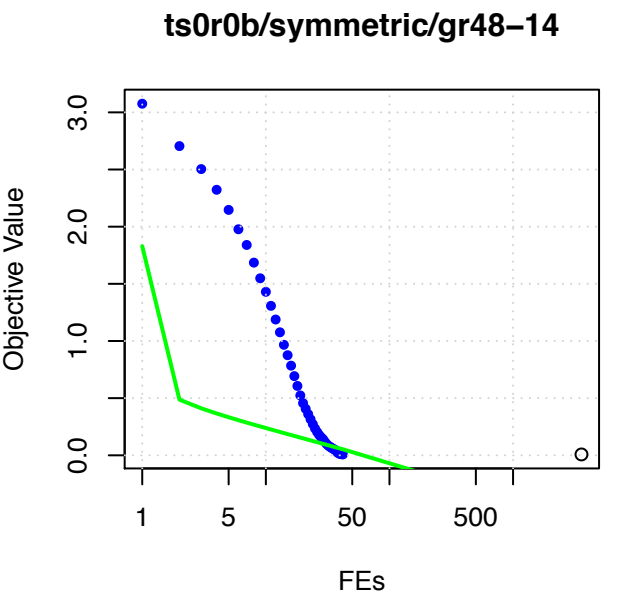
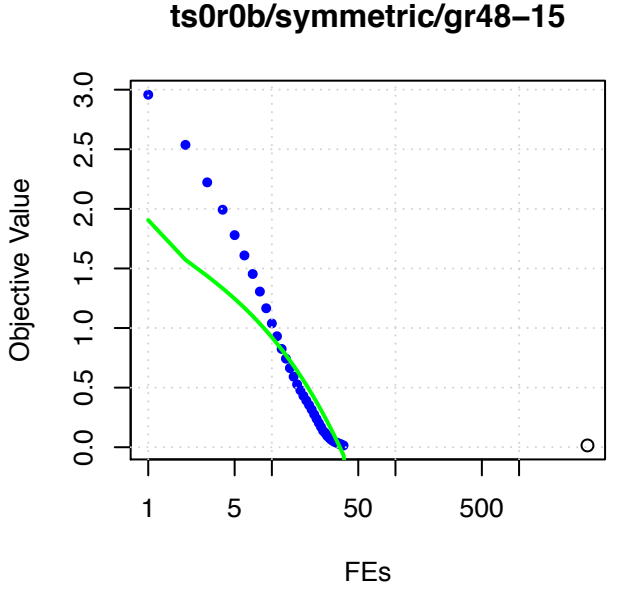
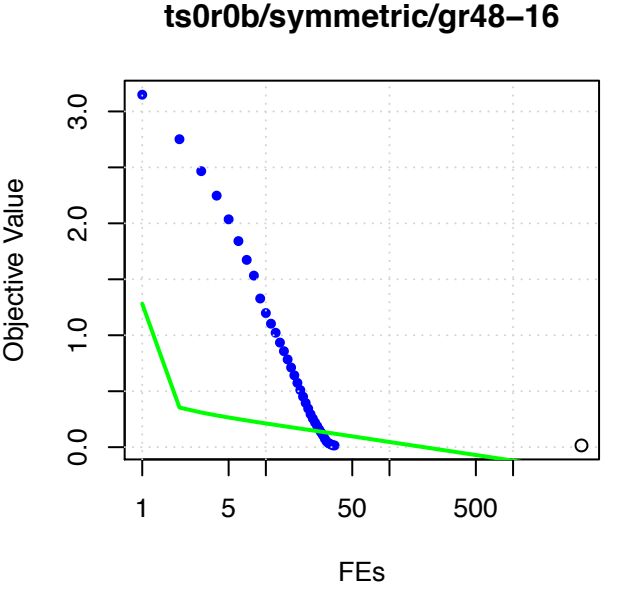
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/gr48−14
Objective Value
0.0
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/gr48−15
Objective Value
0.0
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
500
FEs


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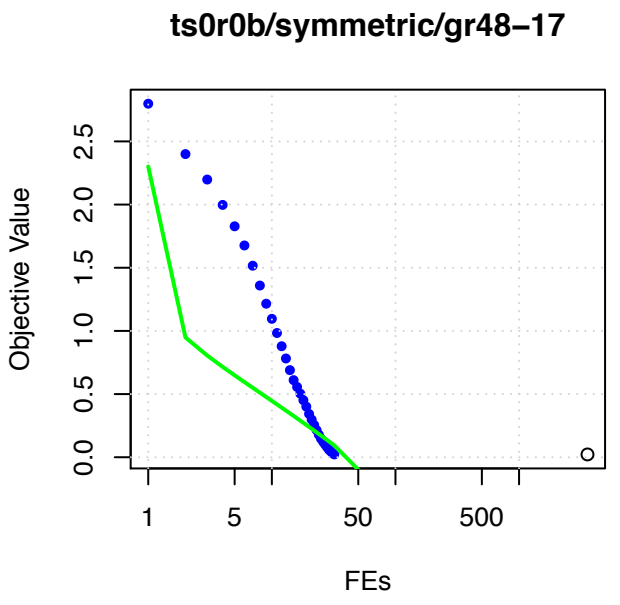
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/gr48−17
Objective Value
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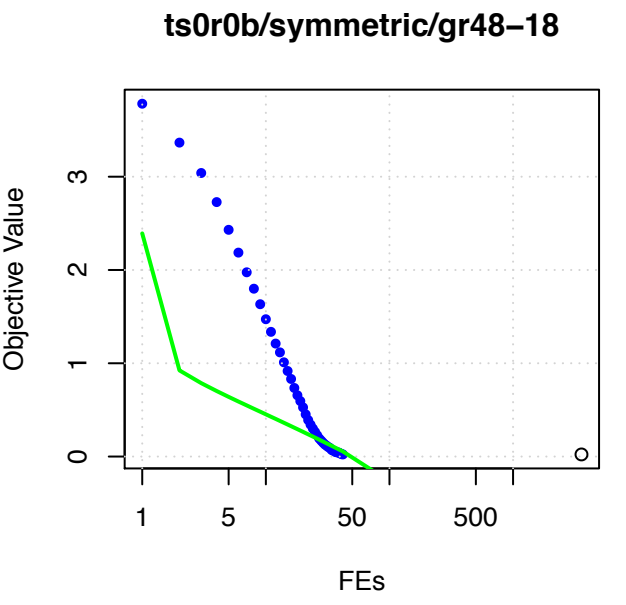
0.5
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts0r0b/symmetric/gr48−18
Objective Value
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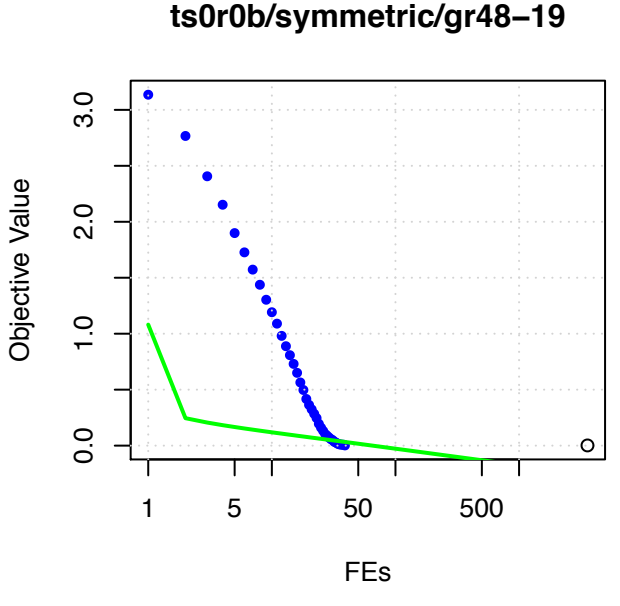
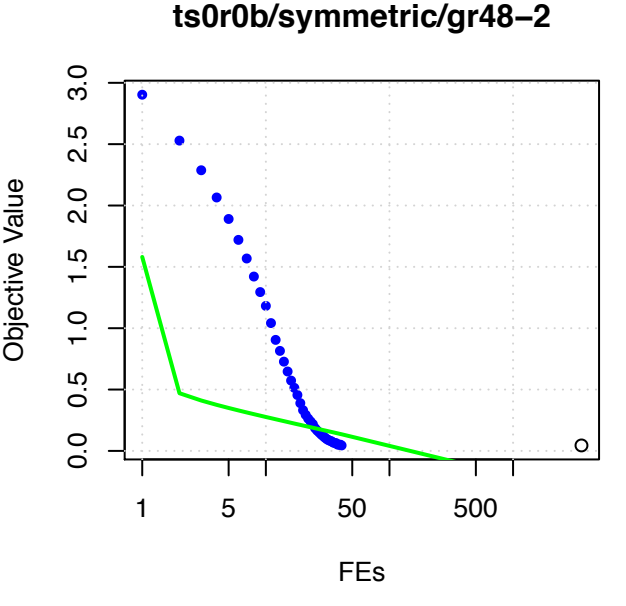
1
2
3
1
5
50
500
FEs


ts0r0b/symmetric/gr48−19
Objective Value
0.0
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/gr48−2
Objective Value
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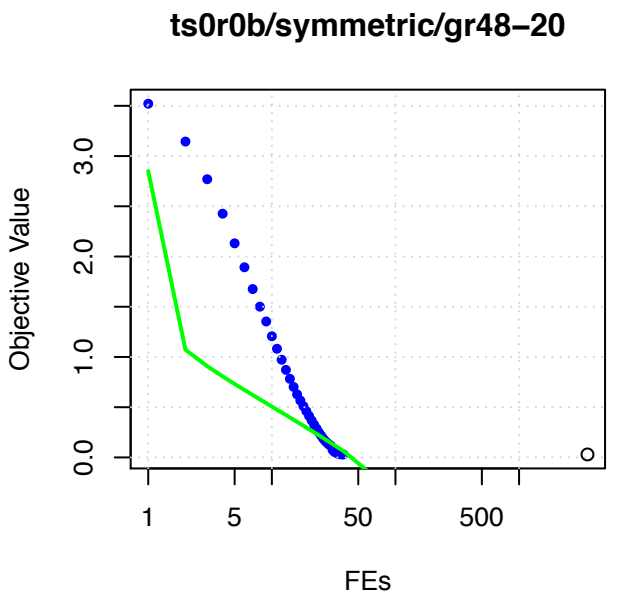
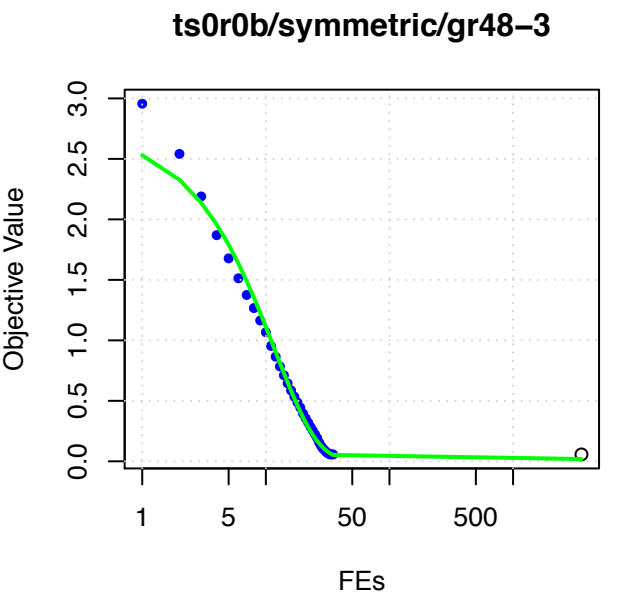
1.0
1.5
2.0
2.5
3.0
1
5
50
500
FEs


ts0r0b/symmetric/gr48−20
Objective Value
0.0
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/gr48−3
Objective Value
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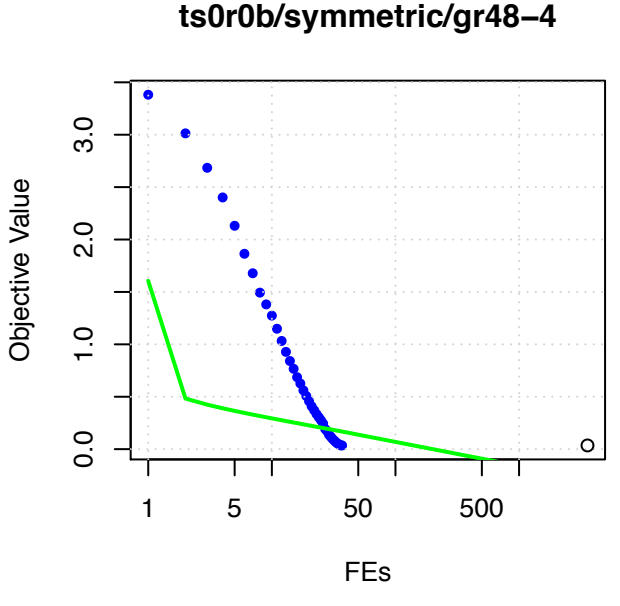
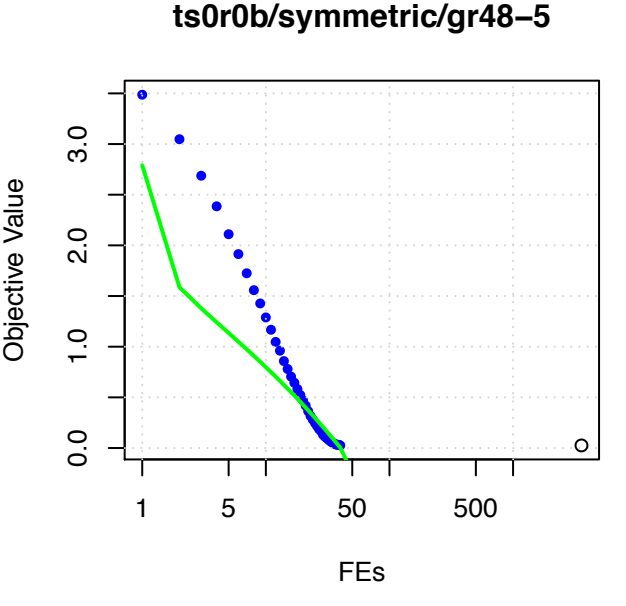
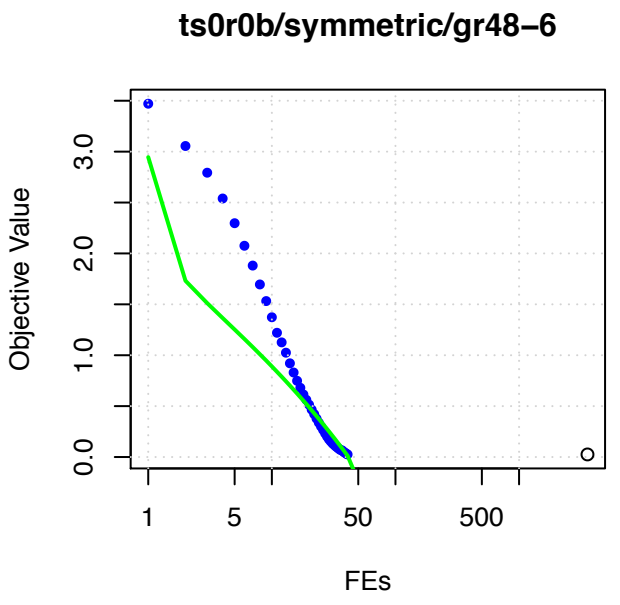
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
500
FEs


ts0r0b/symmetric/gr48−4
Objective Value
0.0
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/gr48−5
Objective Value
0.0
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/gr48−6
Objective Value
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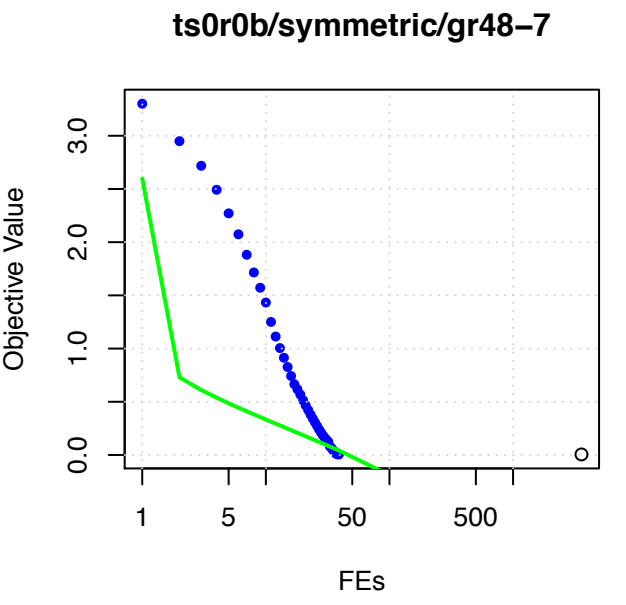
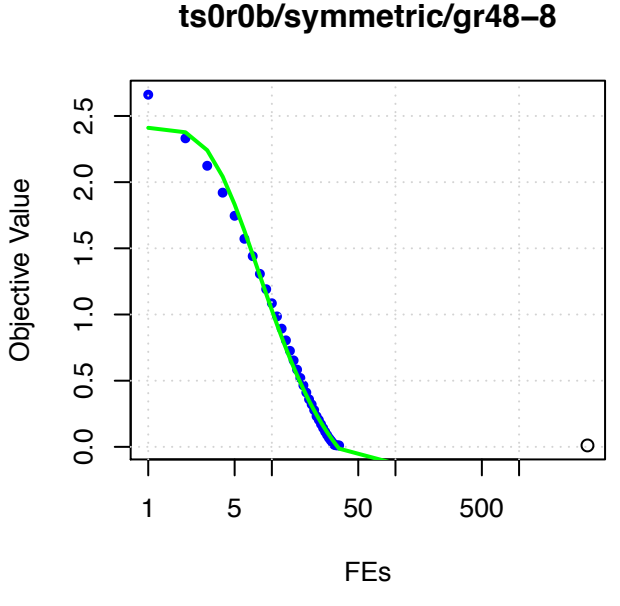
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/gr48−7
Objective Value
0.0
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/gr48−8
Objective Value
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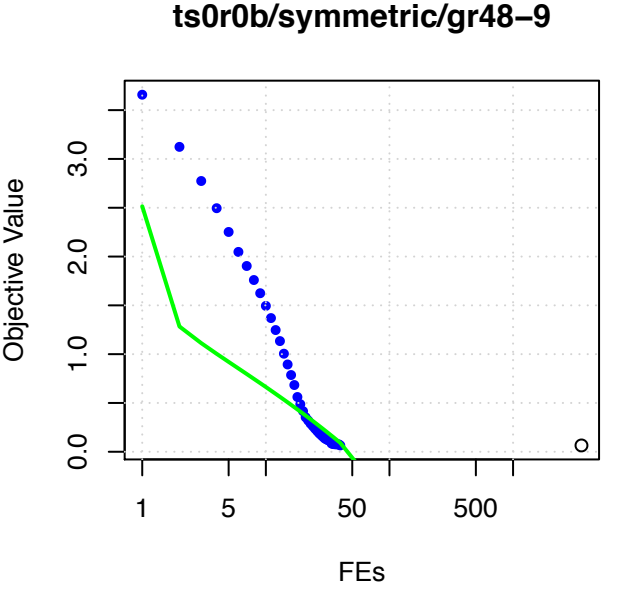
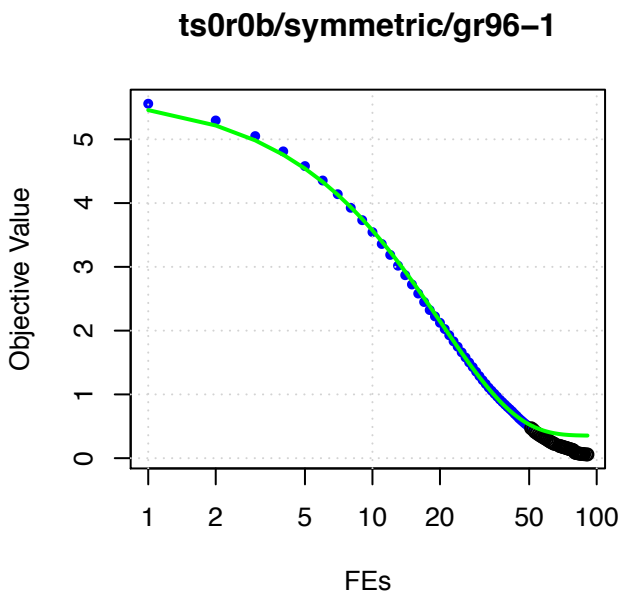
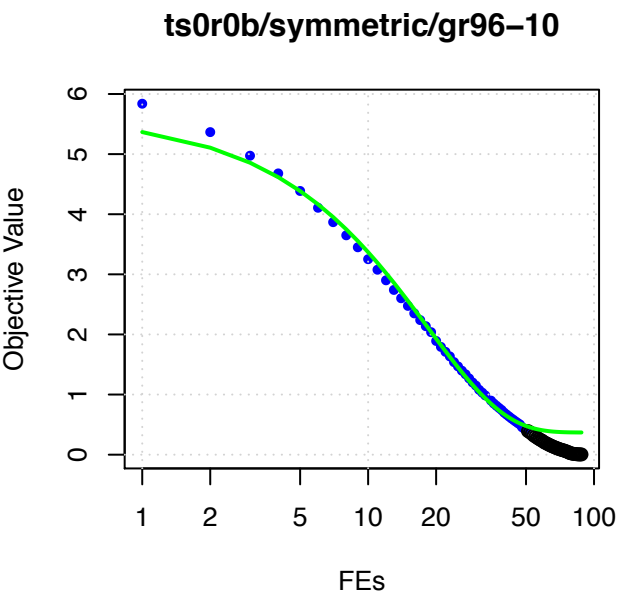
0.5
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts0r0b/symmetric/gr48−9
Objective Value
0.0
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/gr96−1
Objective Value
0
1
2
3
4
5
1
2
5
10
20
50
100
FEs


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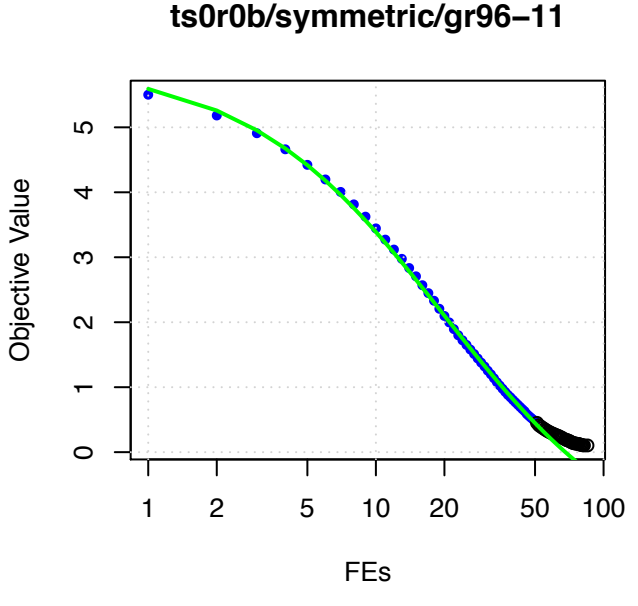
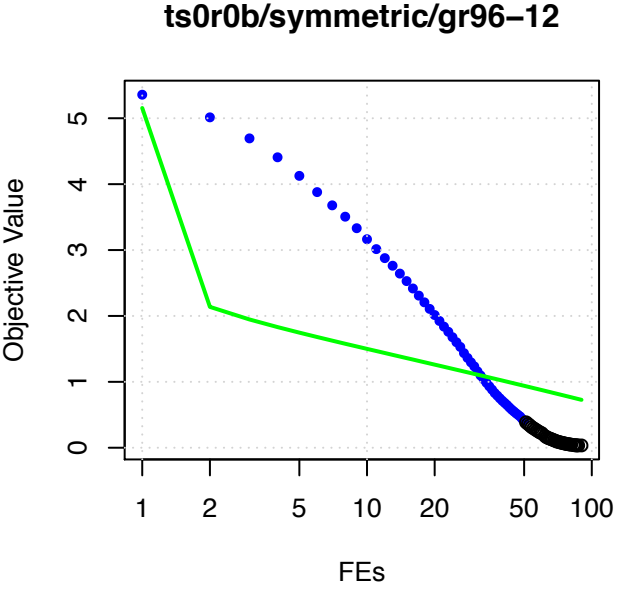
1
2
3
4
5
6
1
2
5
10
20
50
100
FEs


ts0r0b/symmetric/gr96−11
Objective Value
0
1
2
3
4
5
1
2
5
10
20
50
100
FEs


ts0r0b/symmetric/gr96−12
Objective Value
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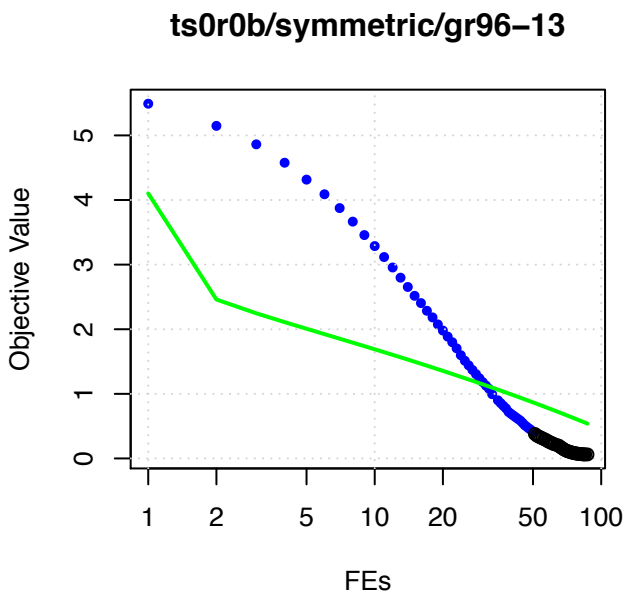
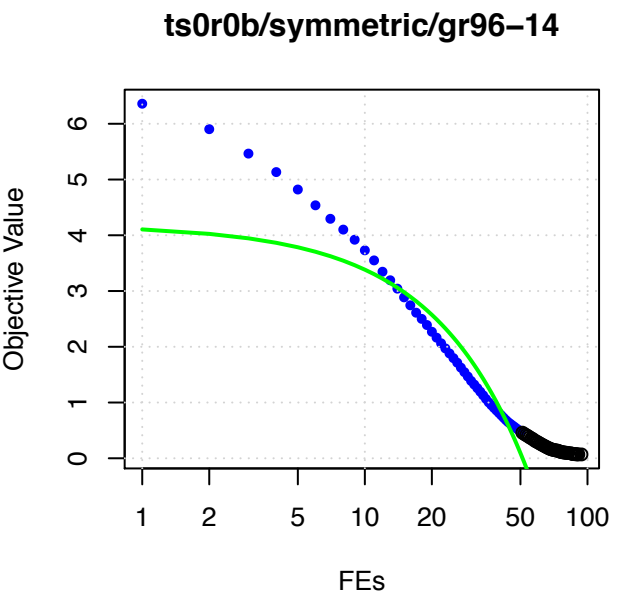
2
3
4
5
1
2
5
10
20
50
100
FEs


ts0r0b/symmetric/gr96−13
Objective Value
0
1
2
3
4
5
1
2
5
10
20
50
100
FEs


ts0r0b/symmetric/gr96−14
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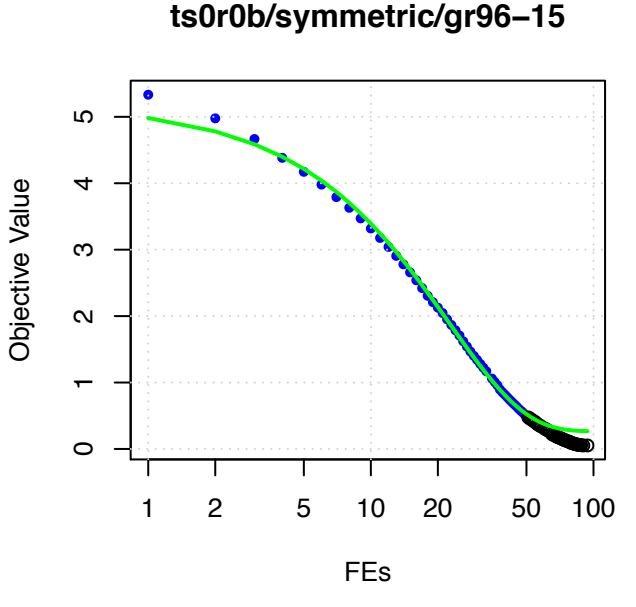
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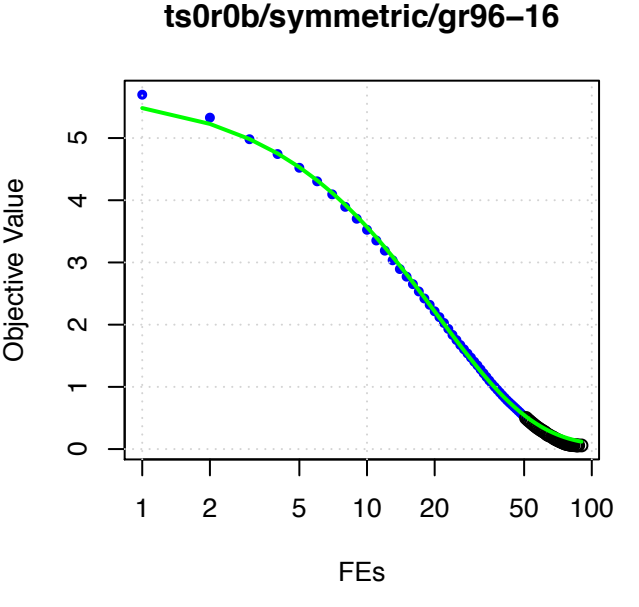
ts0r0b/symmetric/gr96−16
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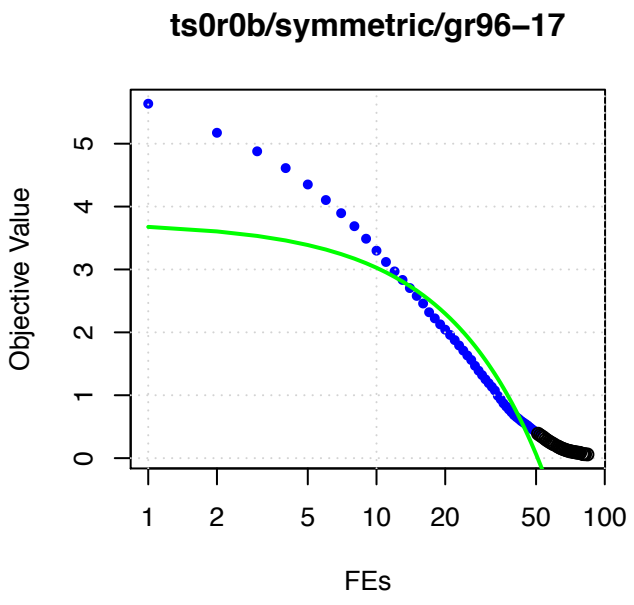
ts0r0b/symmetric/gr96−17
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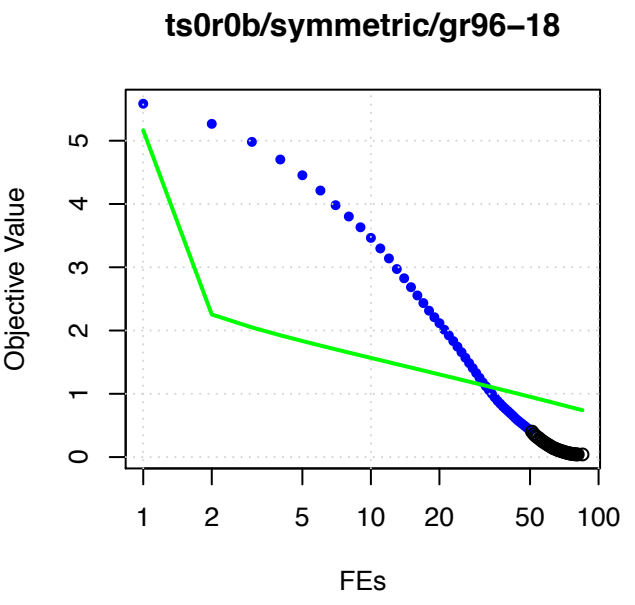
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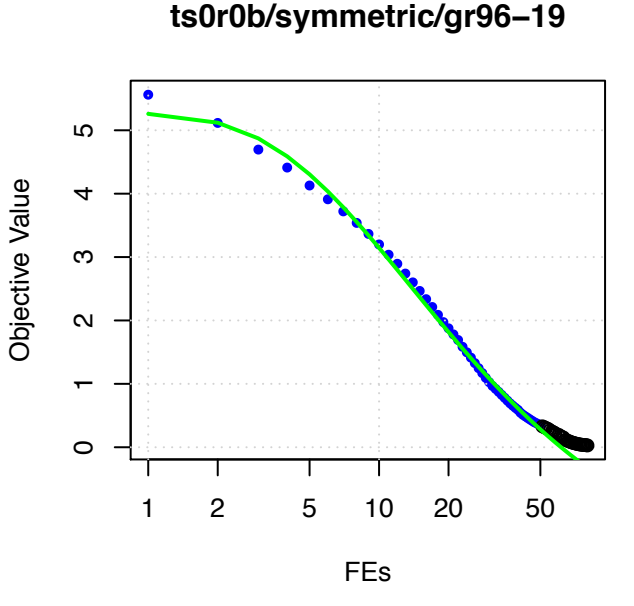
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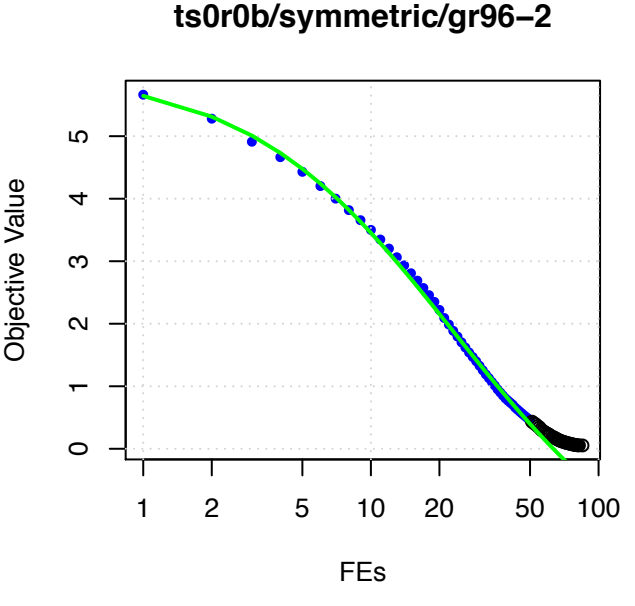
FEs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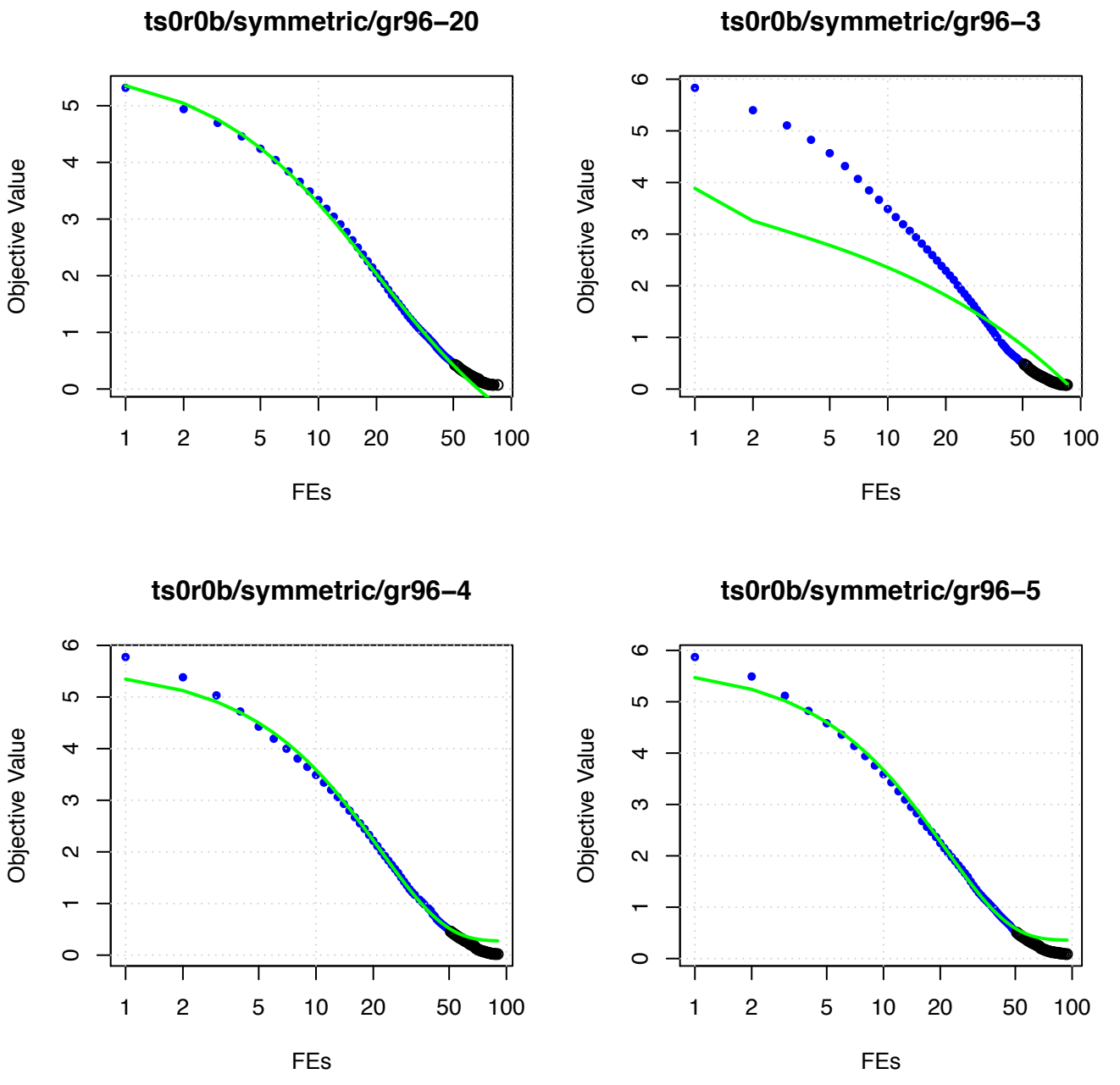
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ts0r0b/symmetric/gr96−3
ts0r0b/symmetric/gr96−4
ts0r0b/symmetric/gr96−5
Objective Value
FEs
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10
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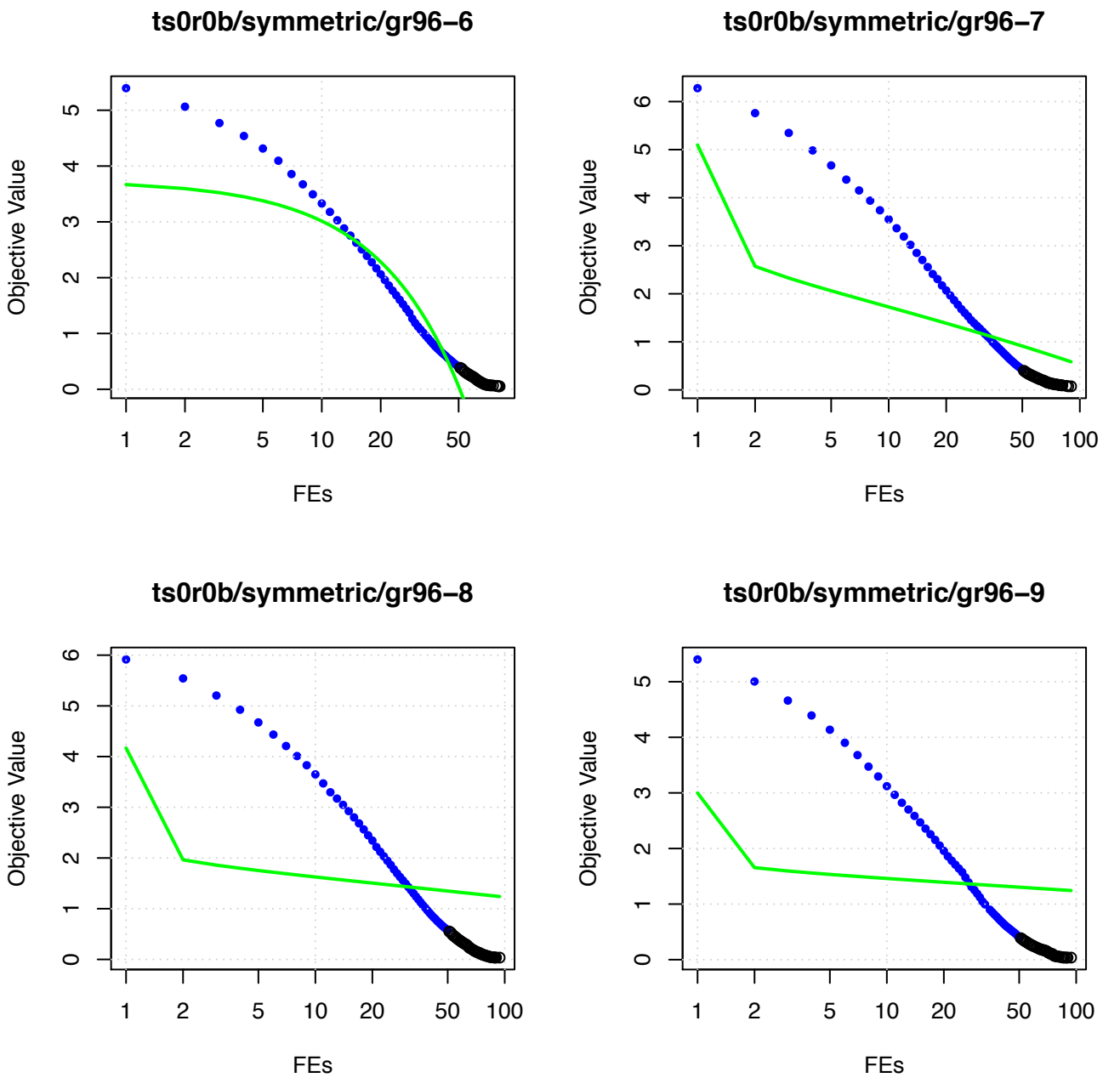
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ts0r0b/symmetric/gr96−7
ts0r0b/symmetric/gr96−8
ts0r0b/symmetric/gr96−9
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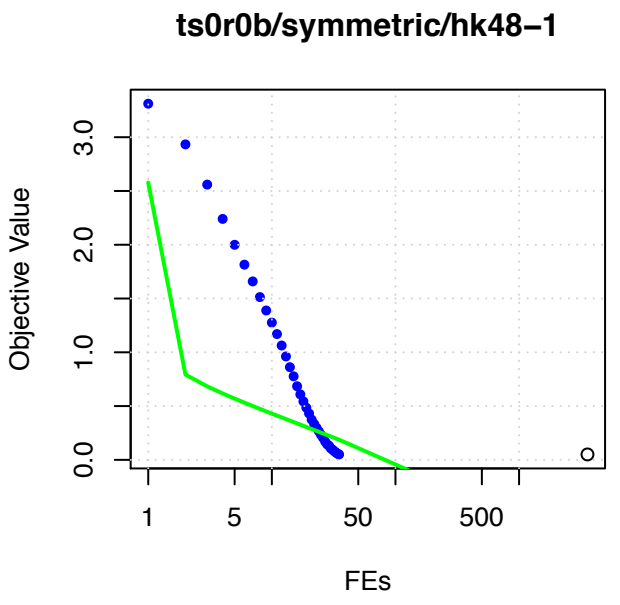
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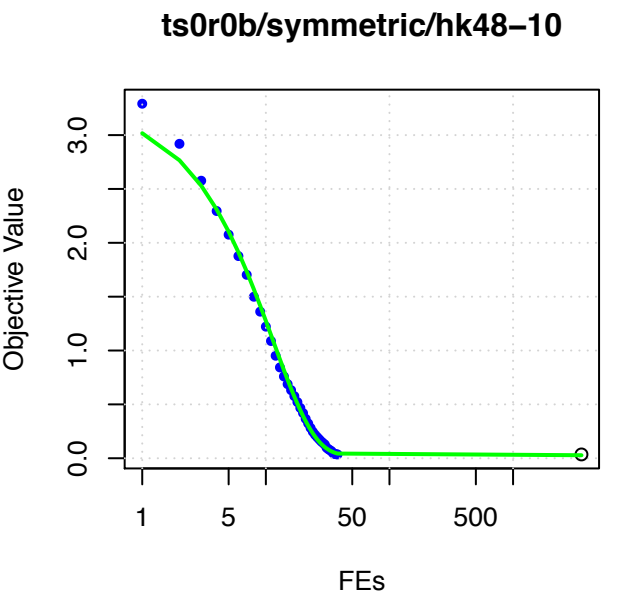
500
FEs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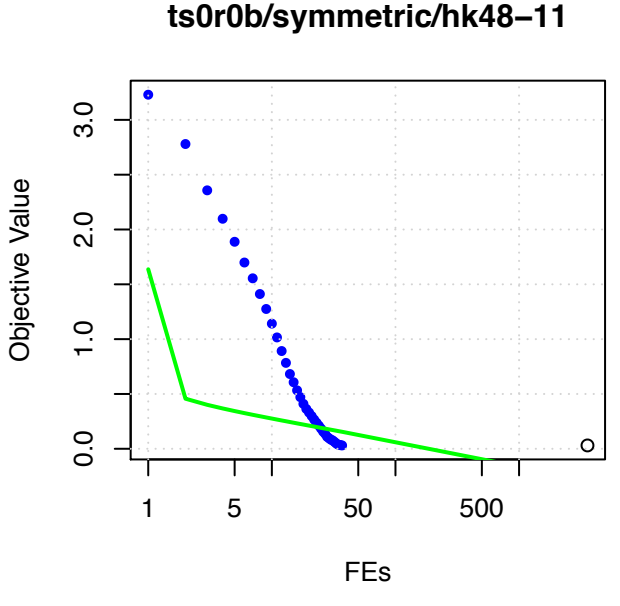
FEs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50
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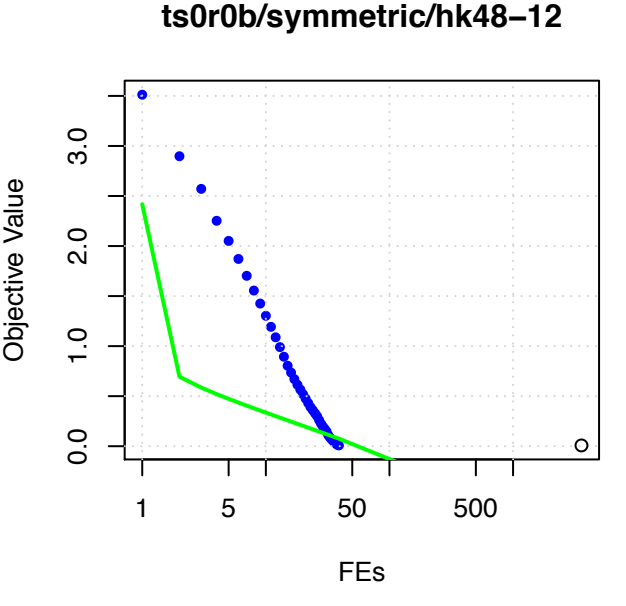
FEs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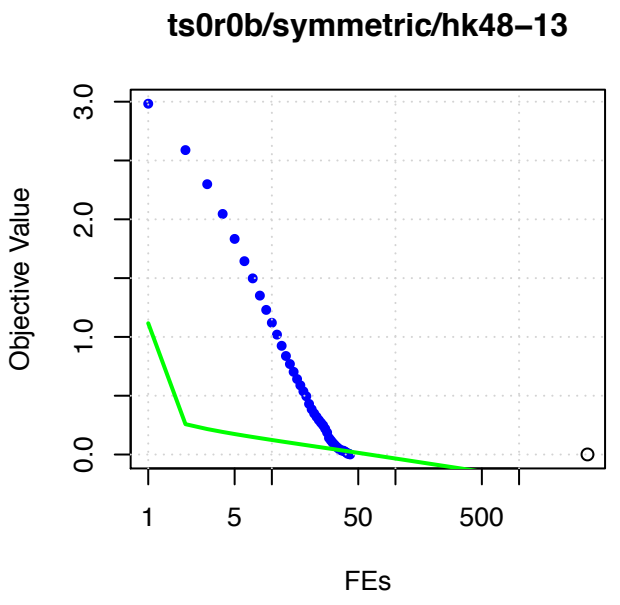
FEs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1
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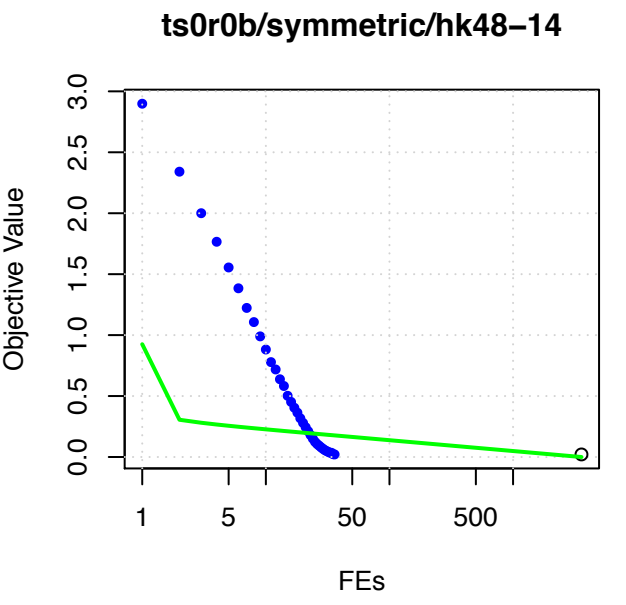
500
FEs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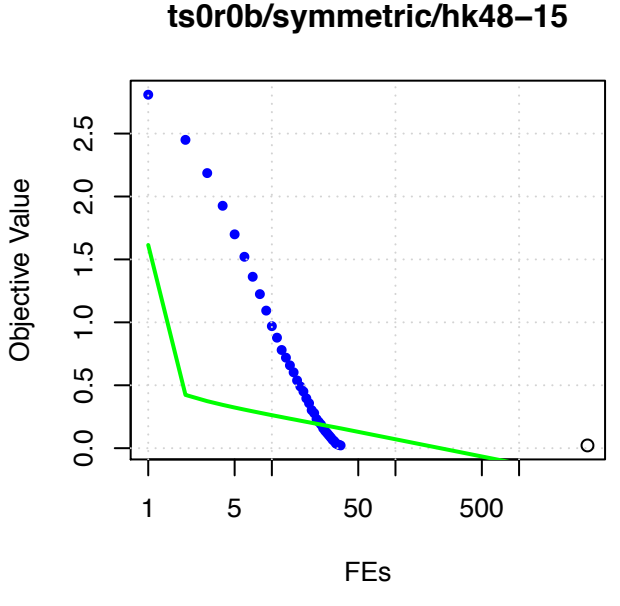
FEs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1.5
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2.5
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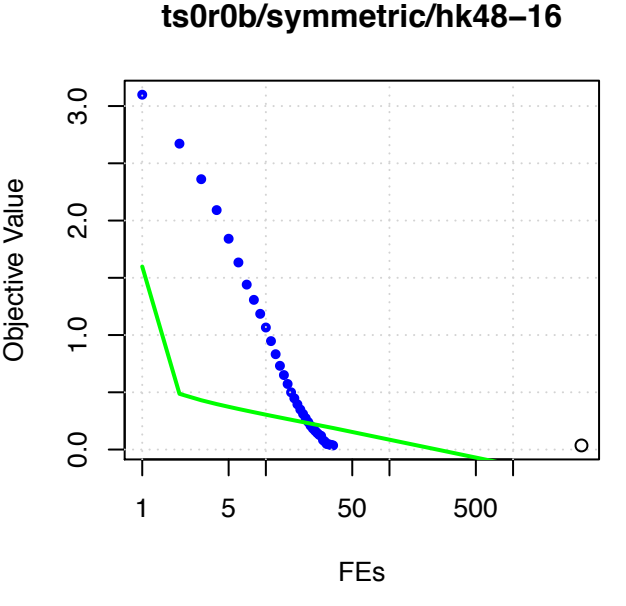
FEs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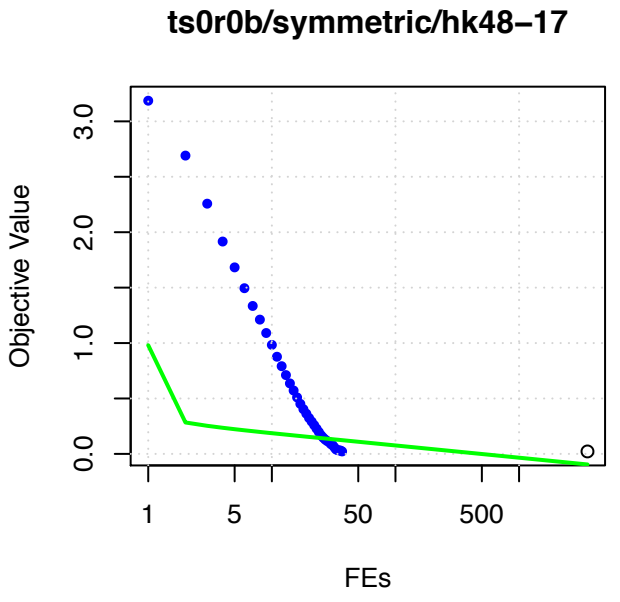
FEs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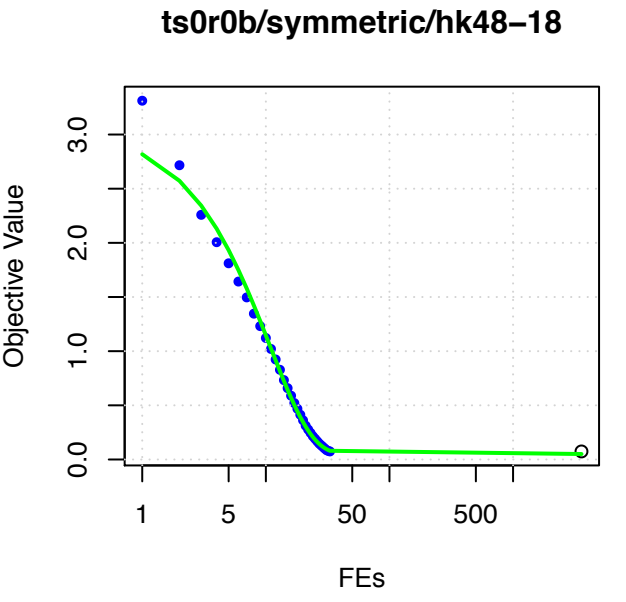
FEs


ts0r0b/symmetric/hk48−18
Objective Value
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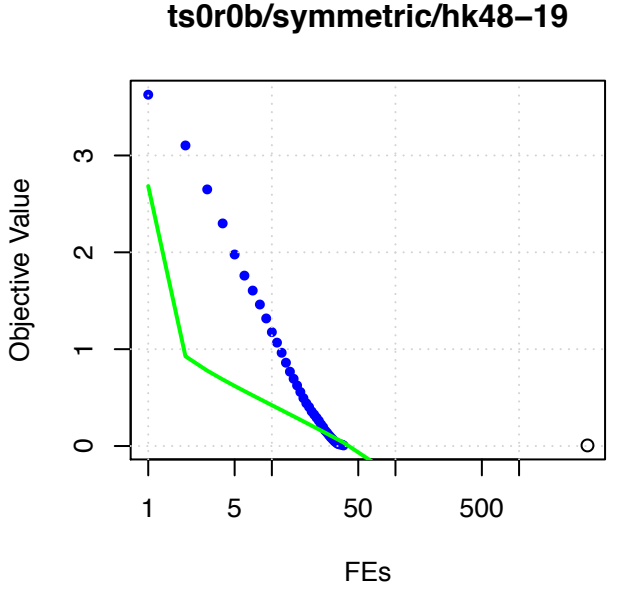
500
FEs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Objective Value
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1
5
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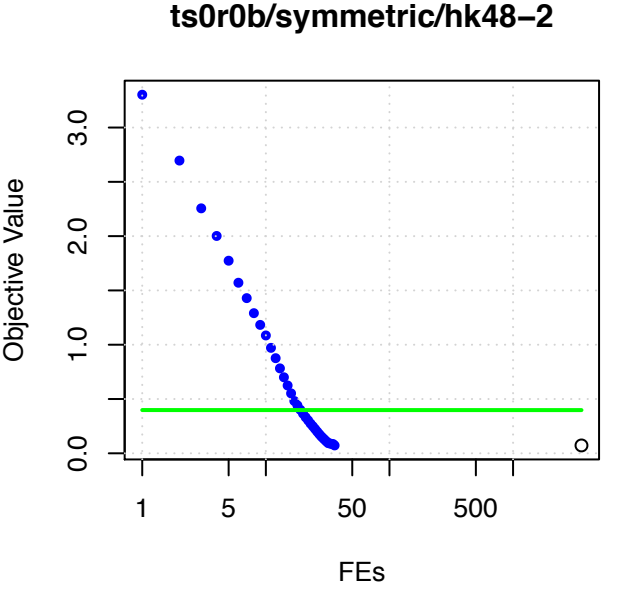
500
FEs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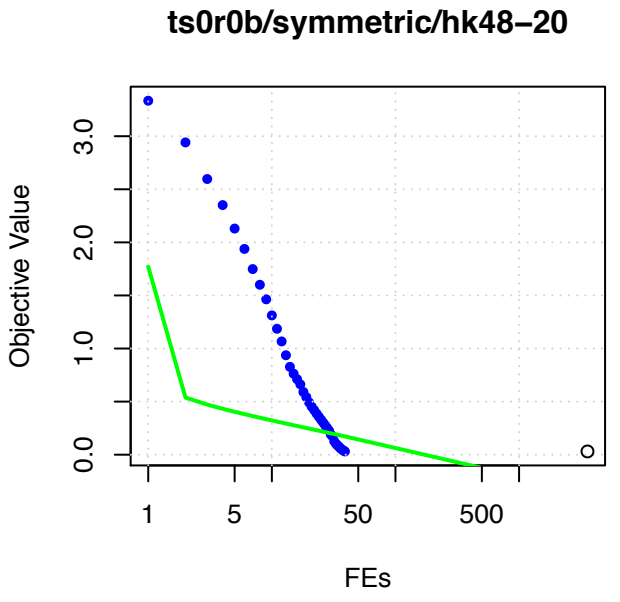
FEs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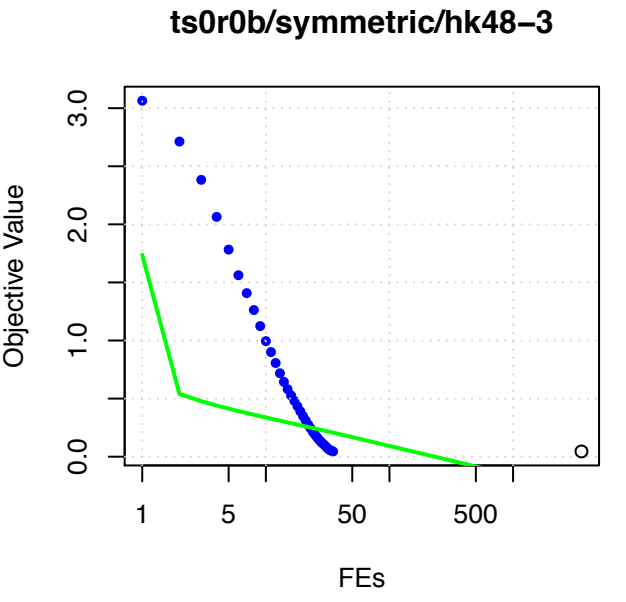
500
FEs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2.0
3.0
1
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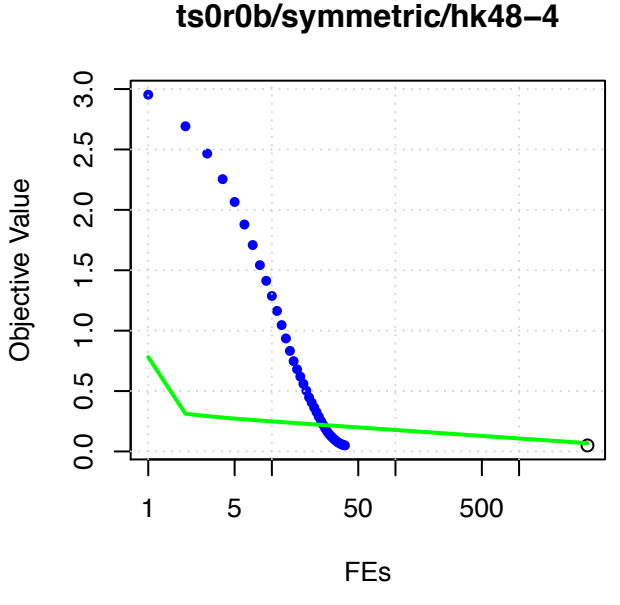
50
500
FEs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2.5
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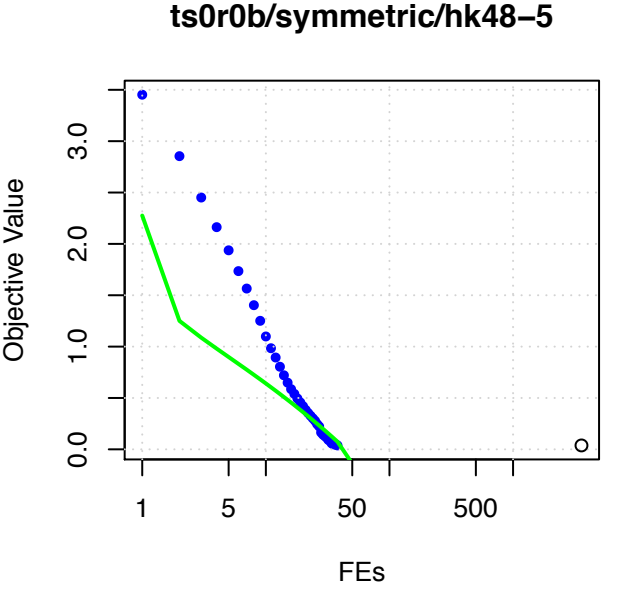
500
FEs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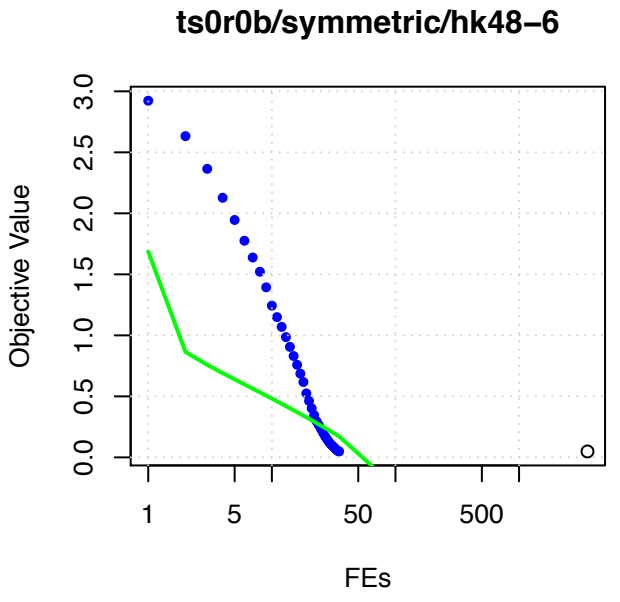
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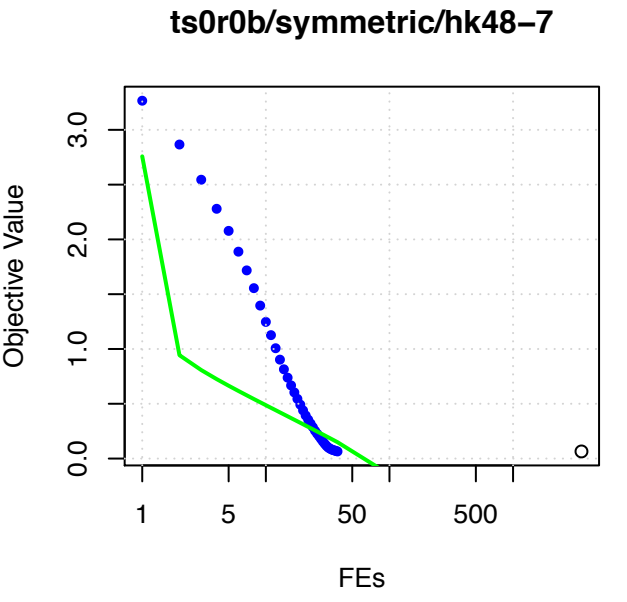
FEs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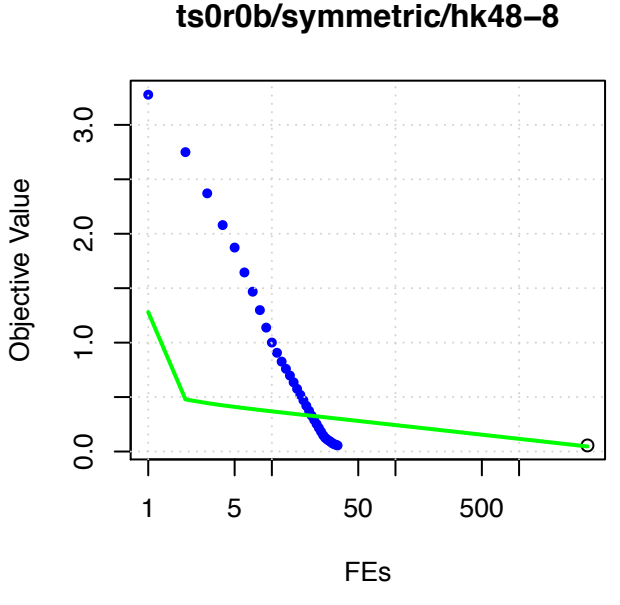
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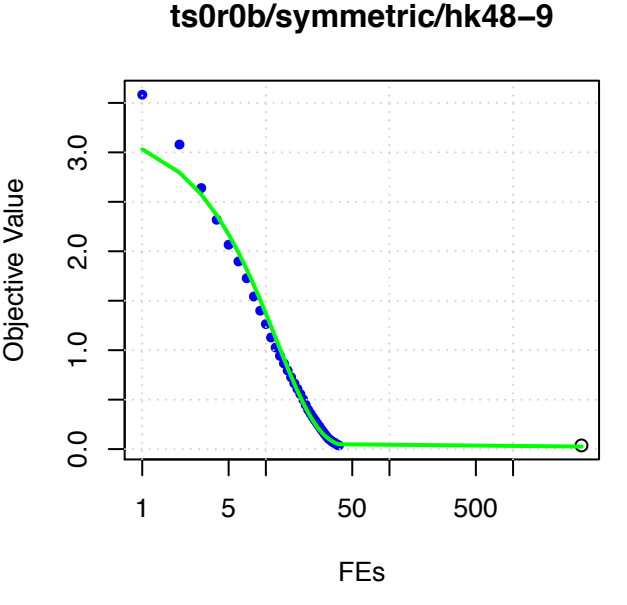
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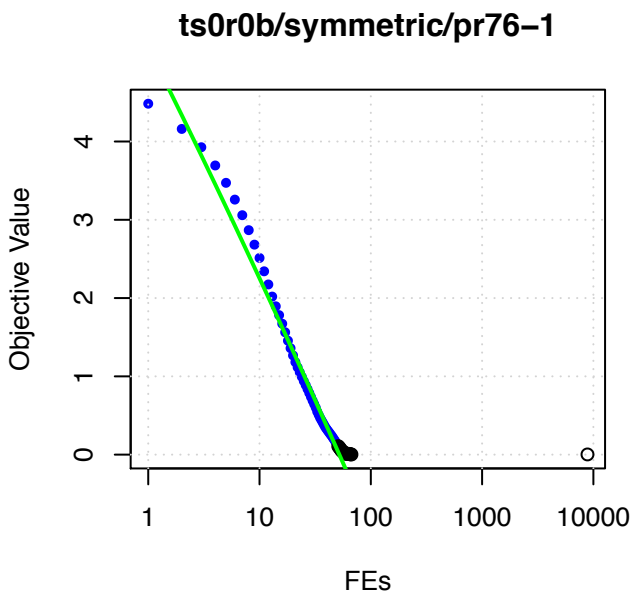
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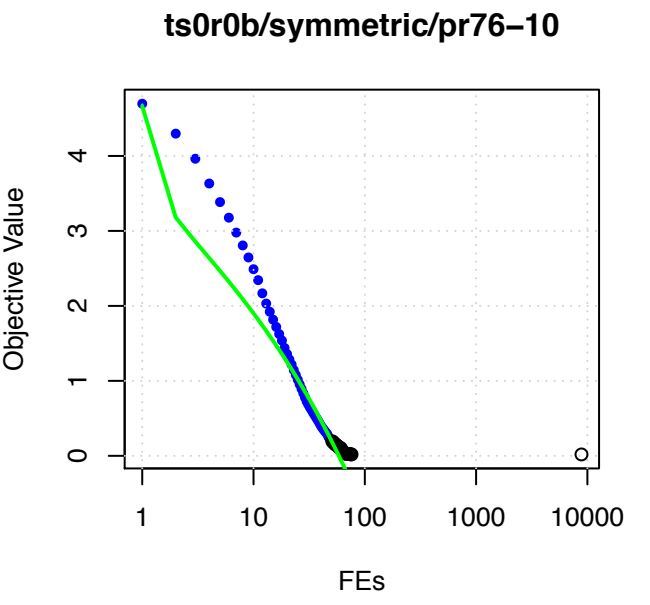
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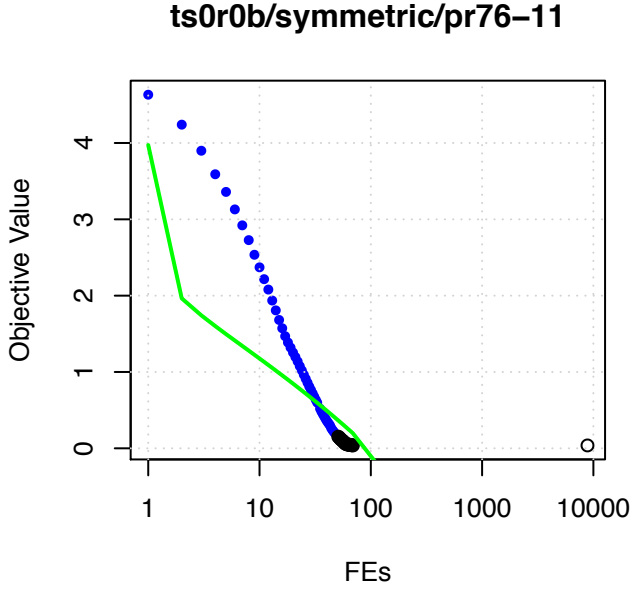
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Objective Value
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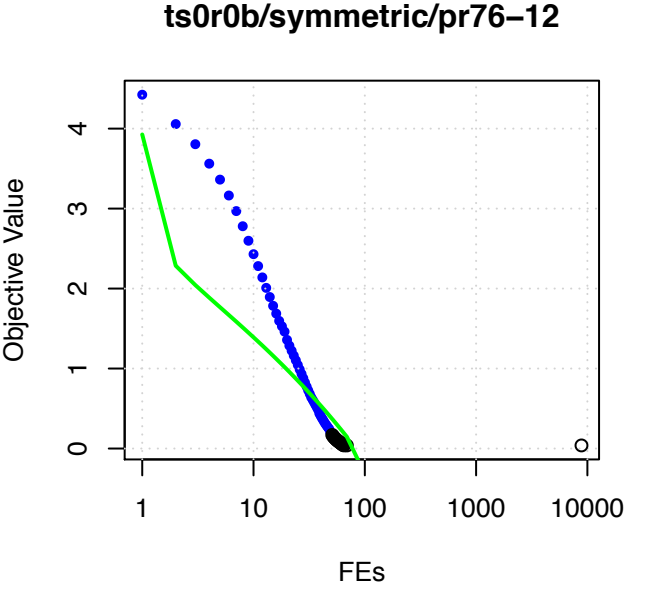
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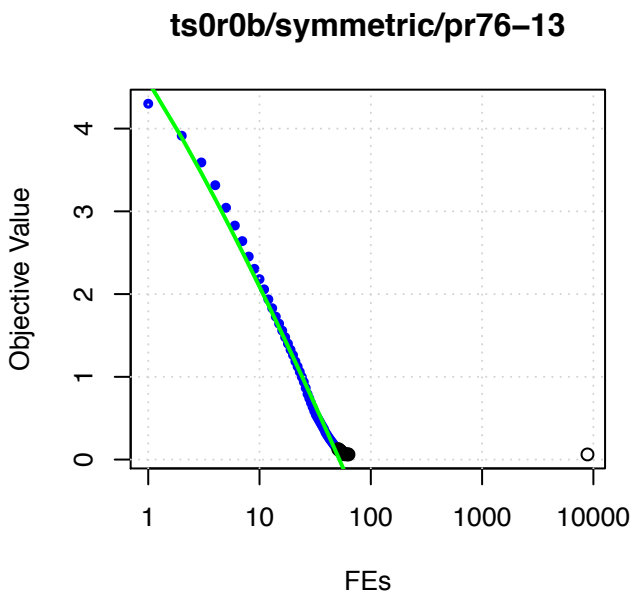
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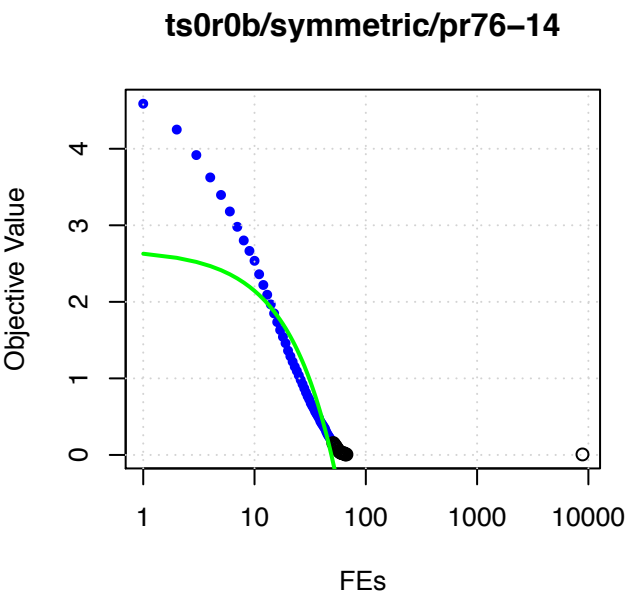
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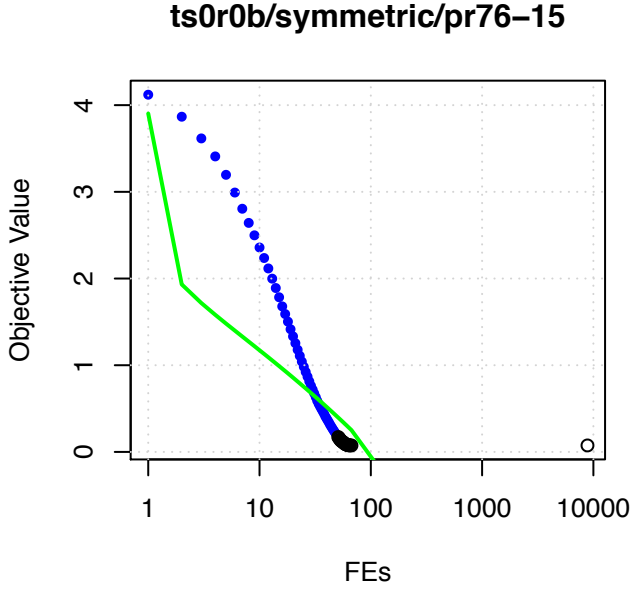
FEs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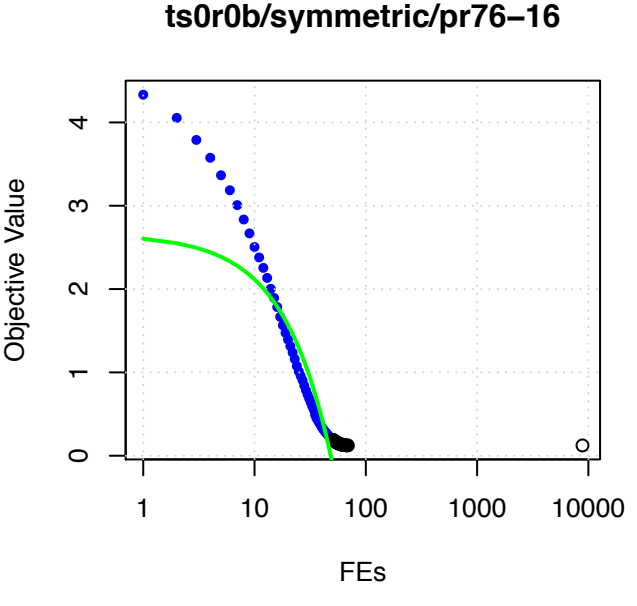
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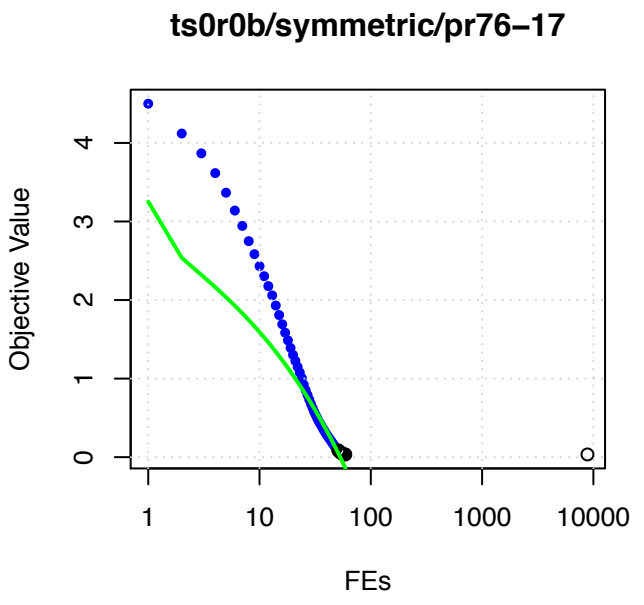
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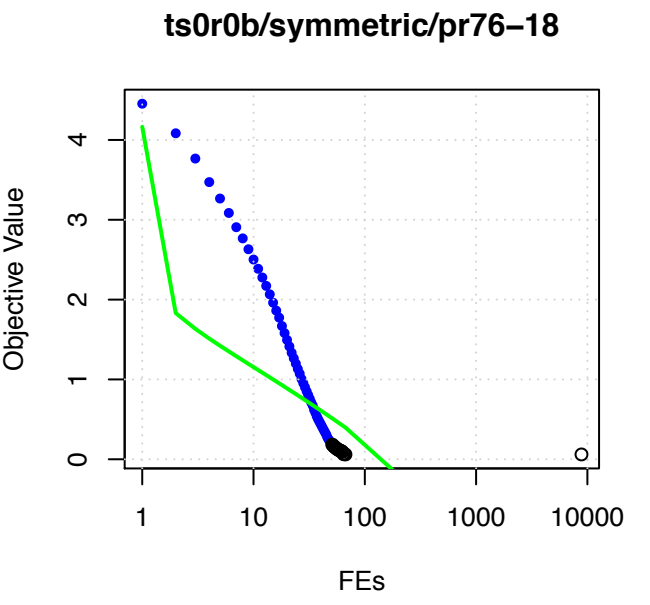
FEs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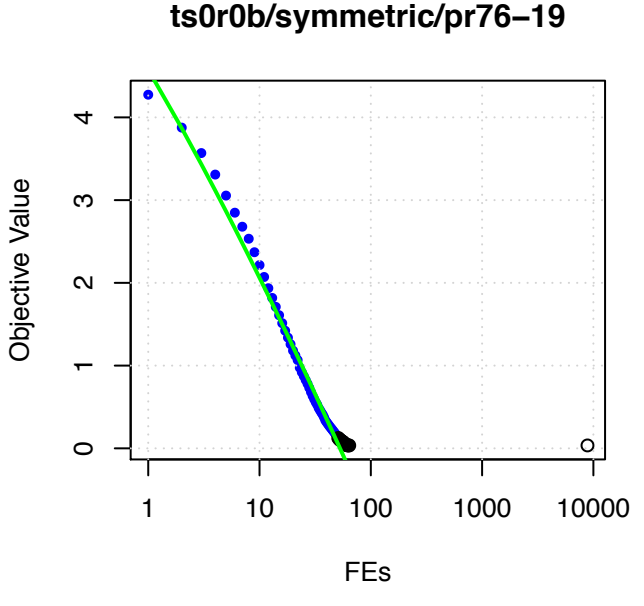
10000
FEs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Objective Value
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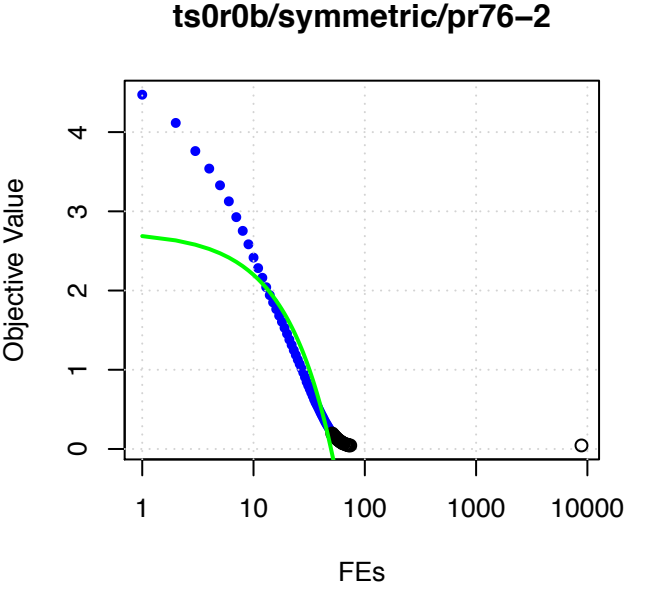
FEs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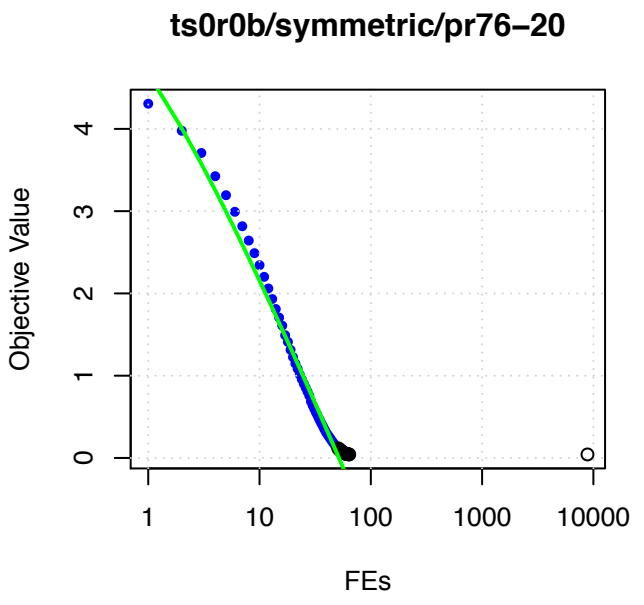
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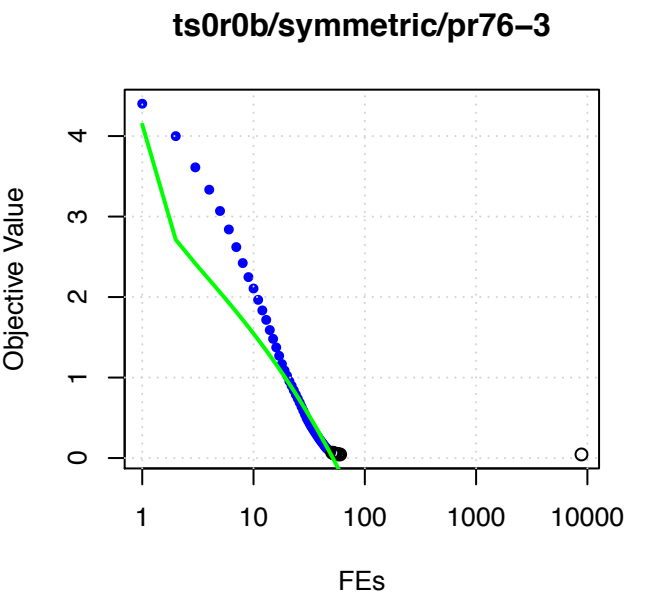
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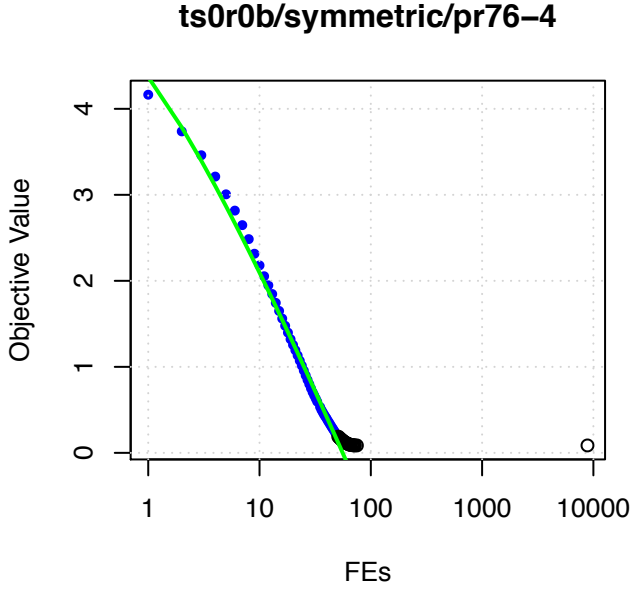
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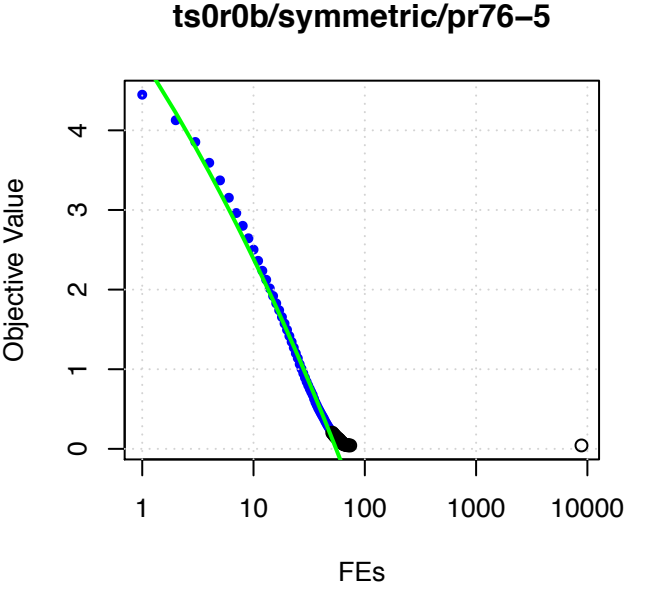
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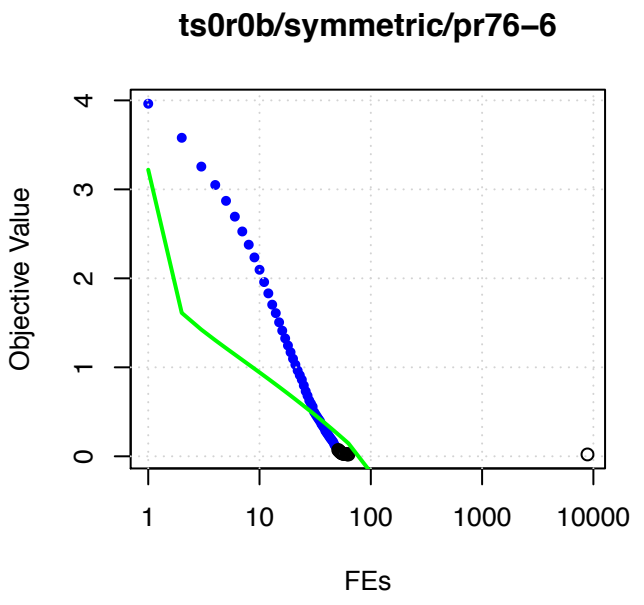
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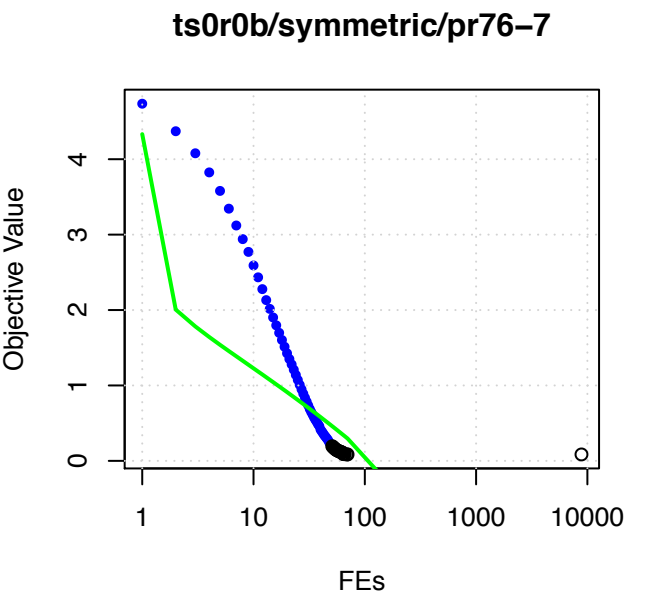
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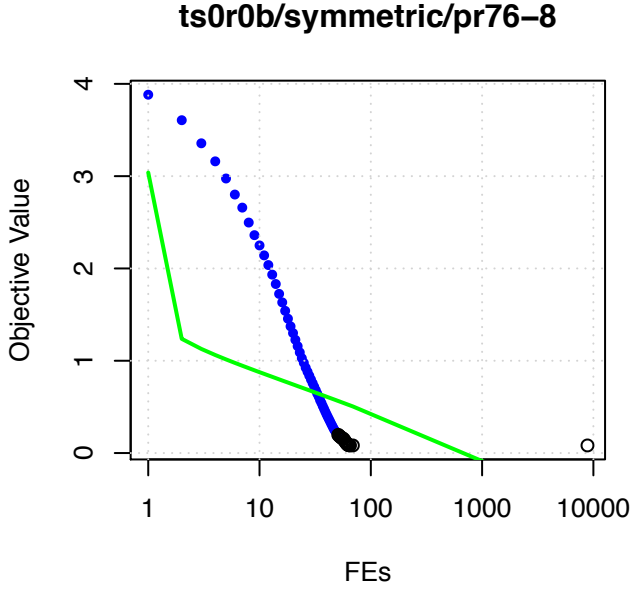
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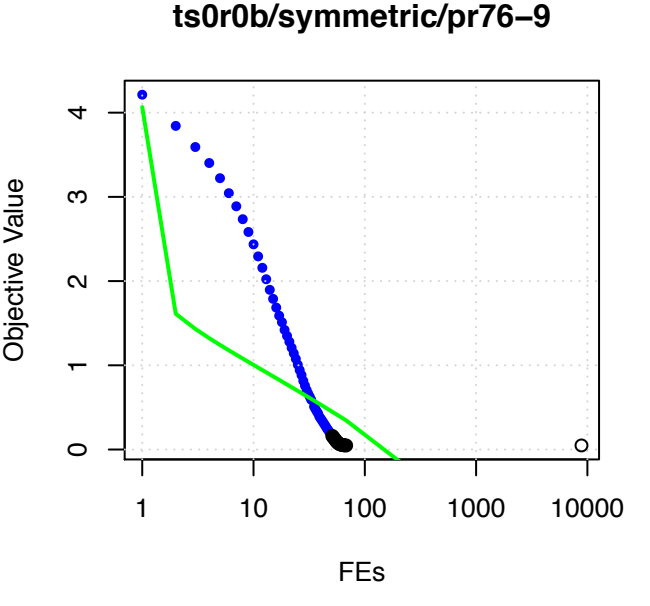
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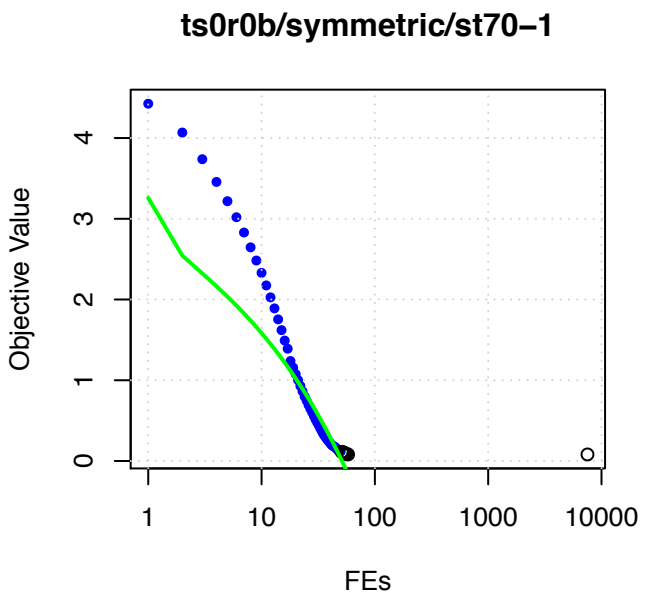
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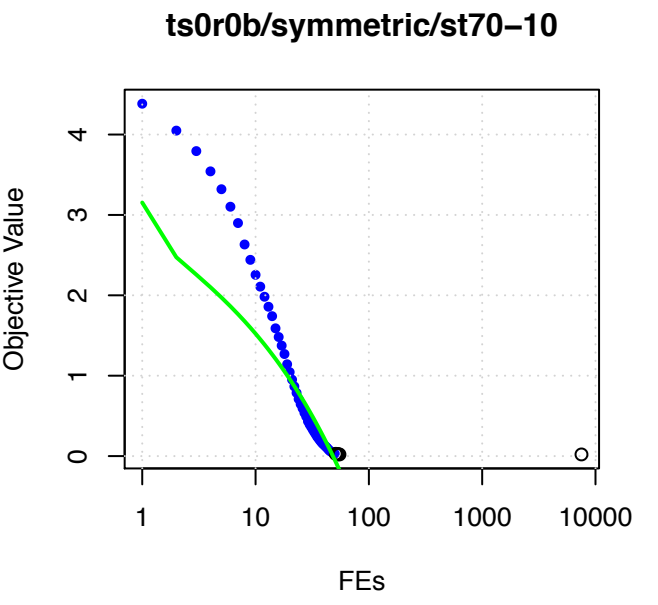
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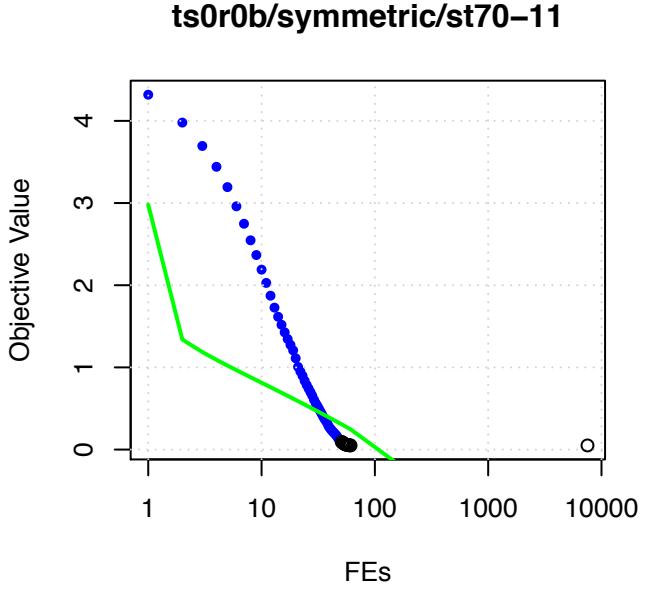
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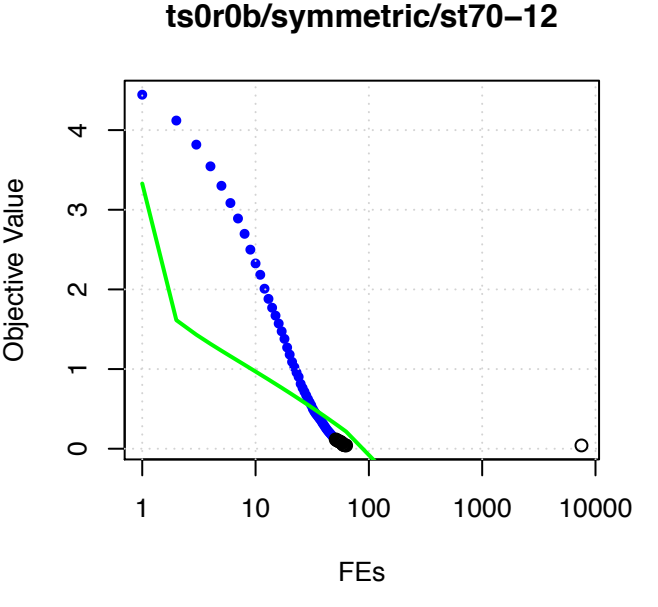
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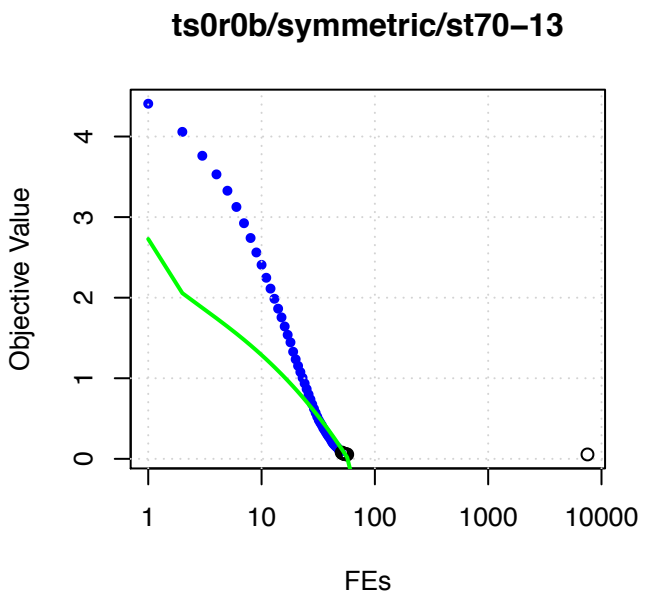
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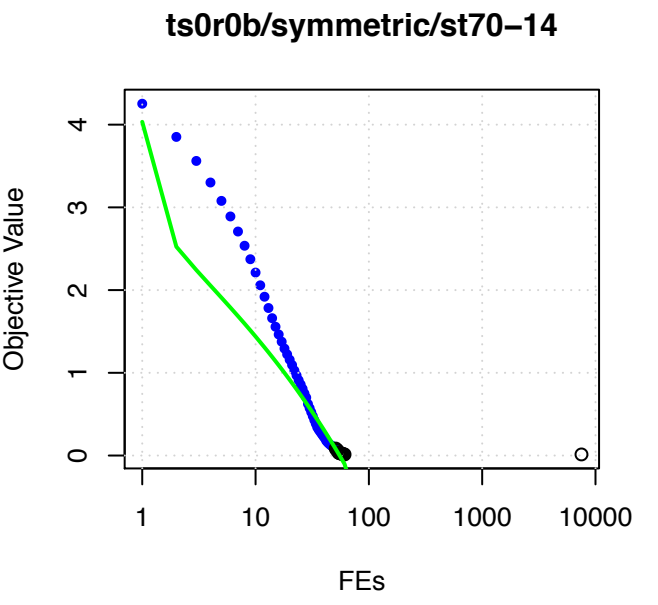
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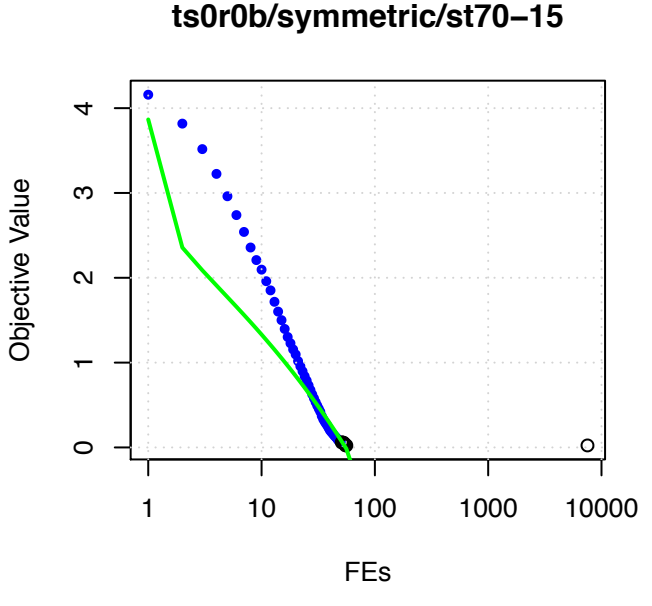
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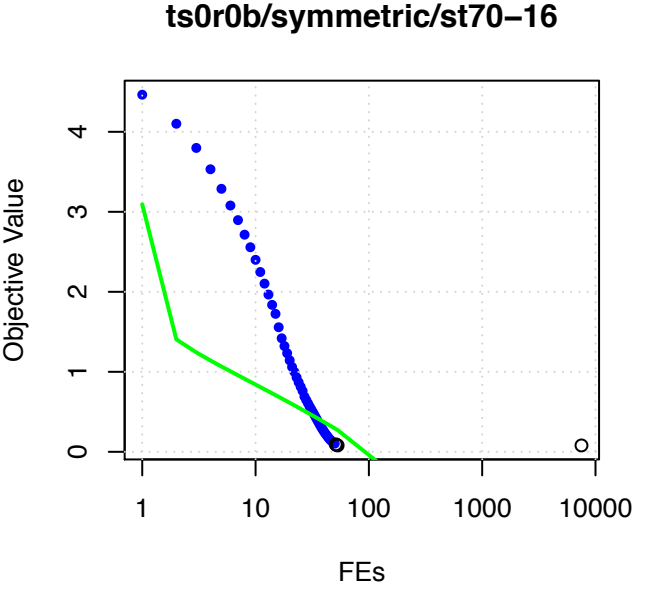
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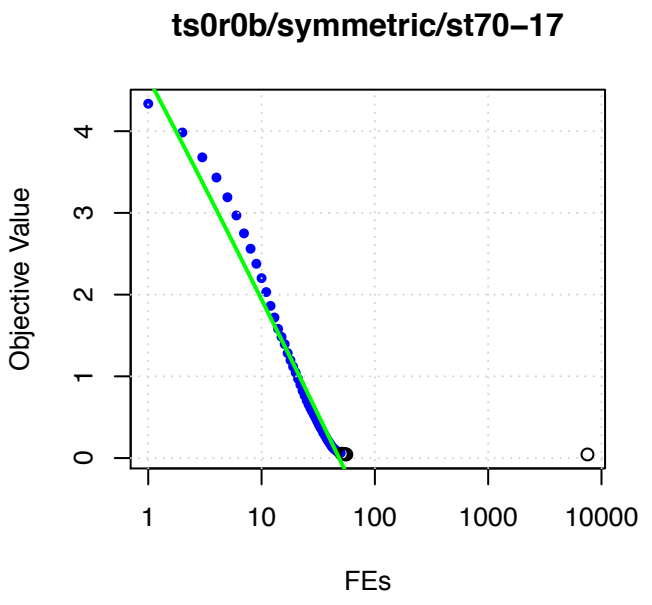
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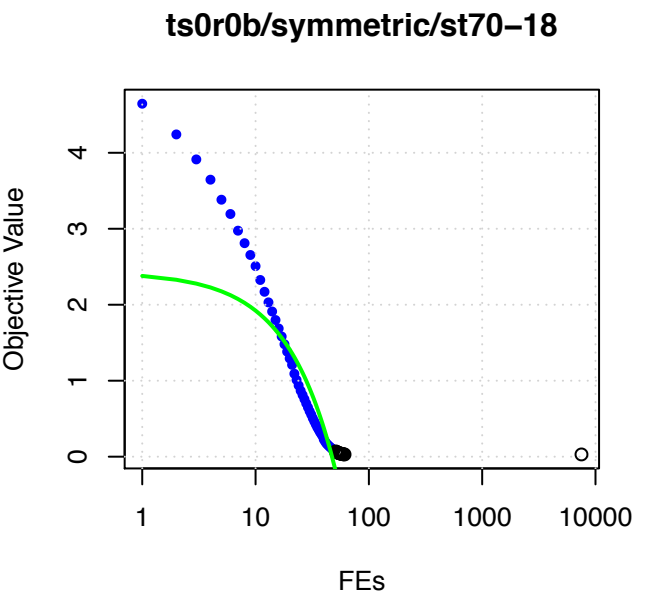
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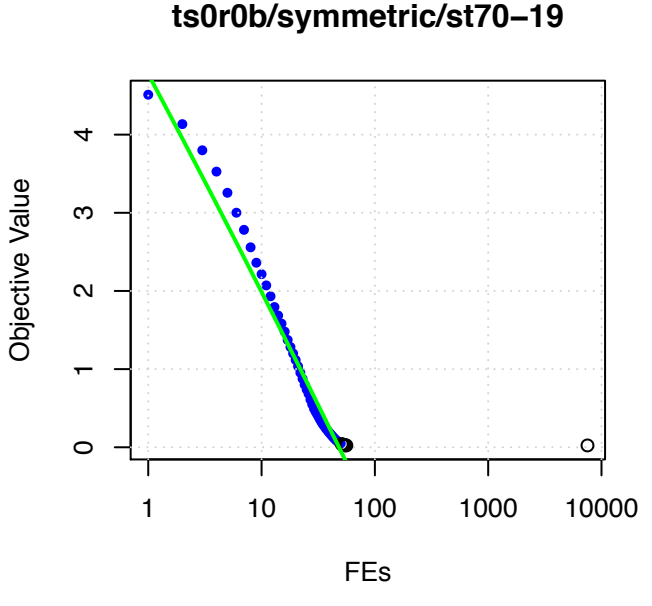
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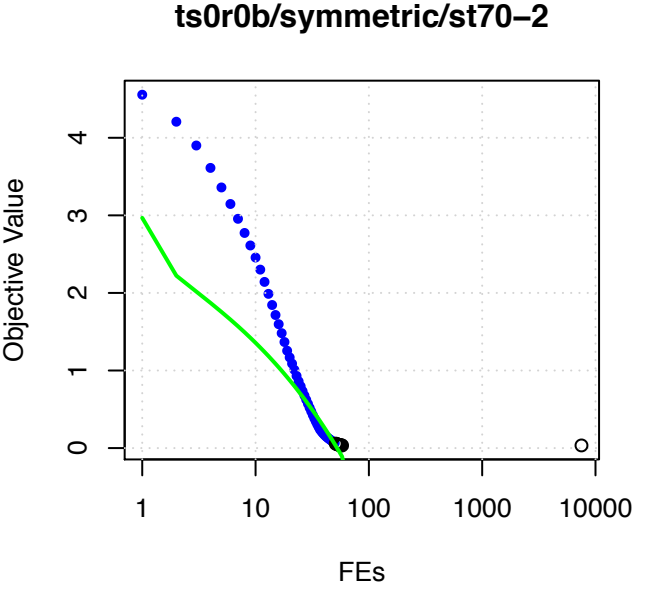
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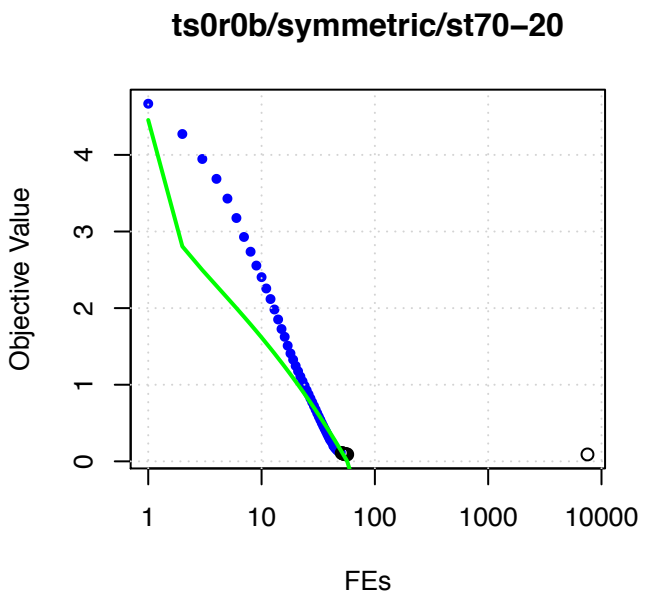
FEs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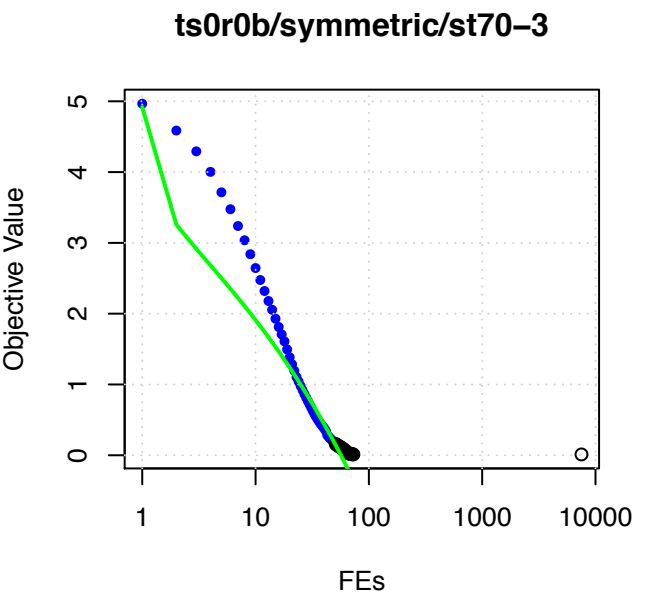
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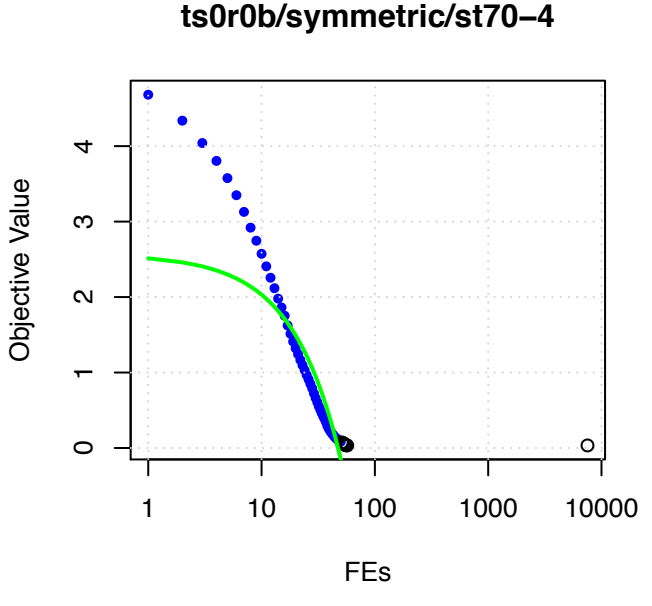
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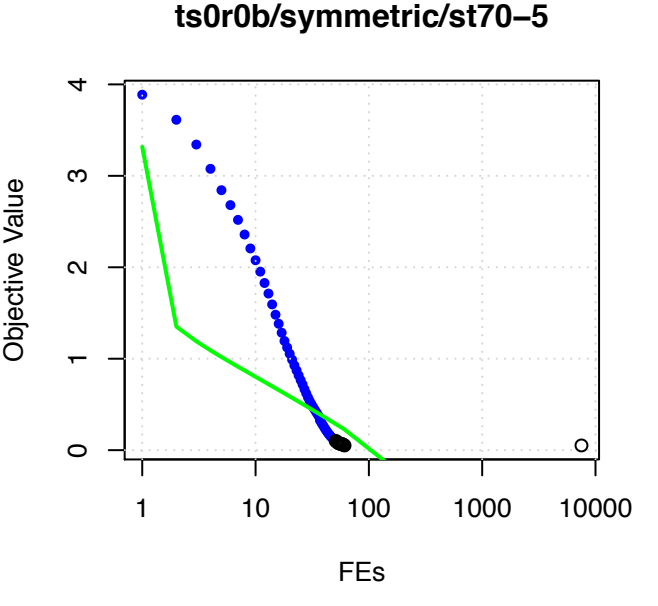
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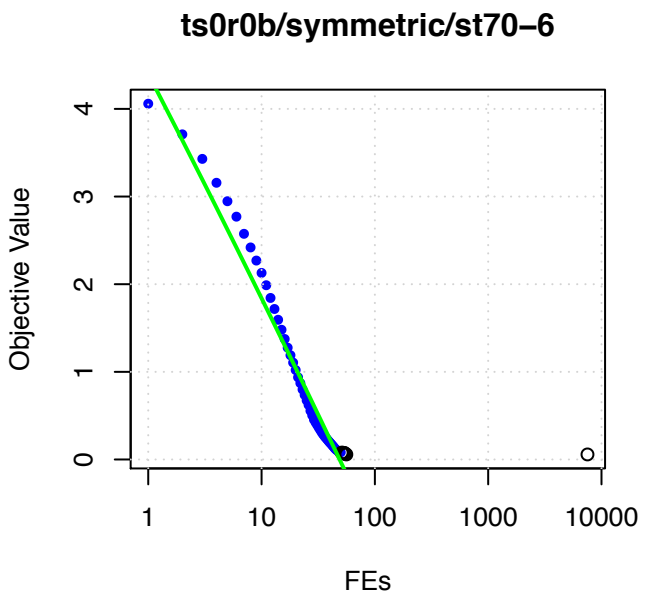
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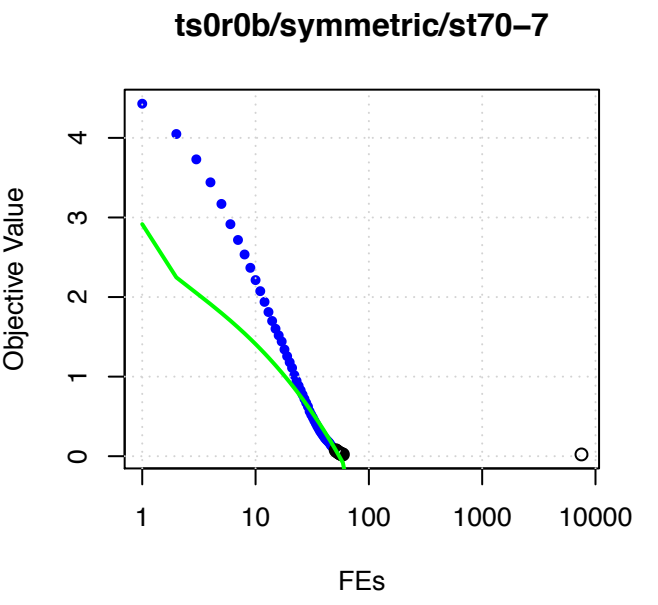
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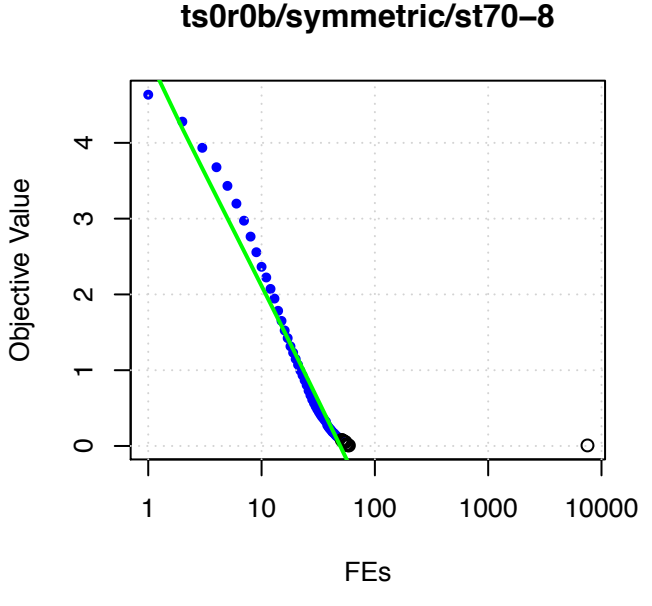
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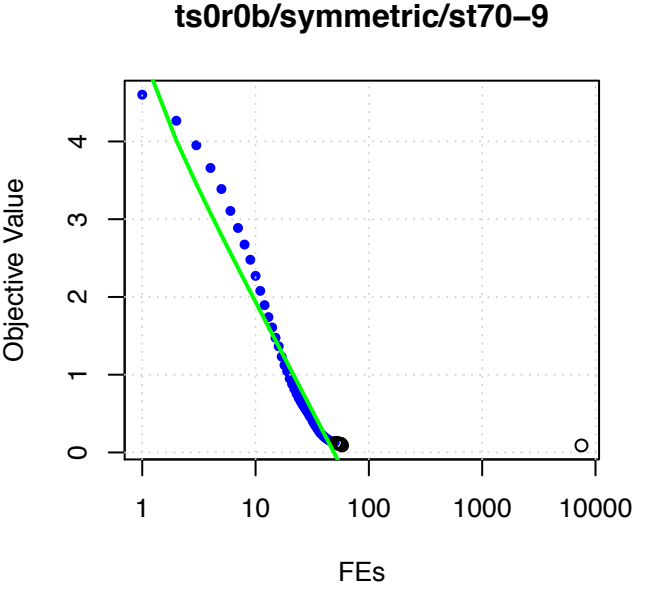
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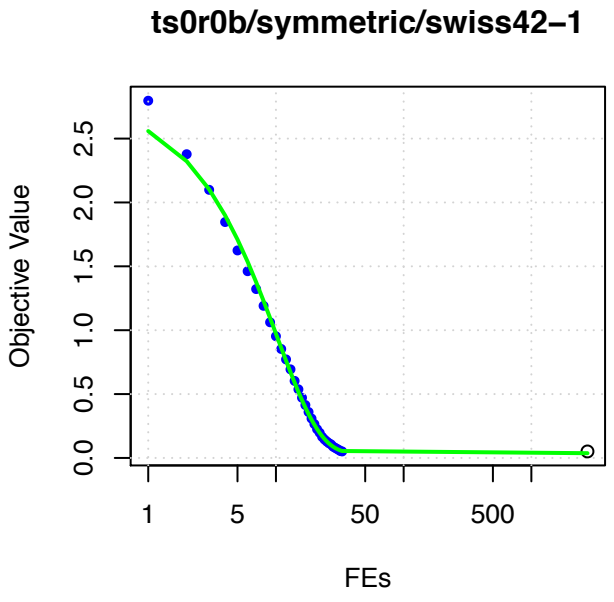
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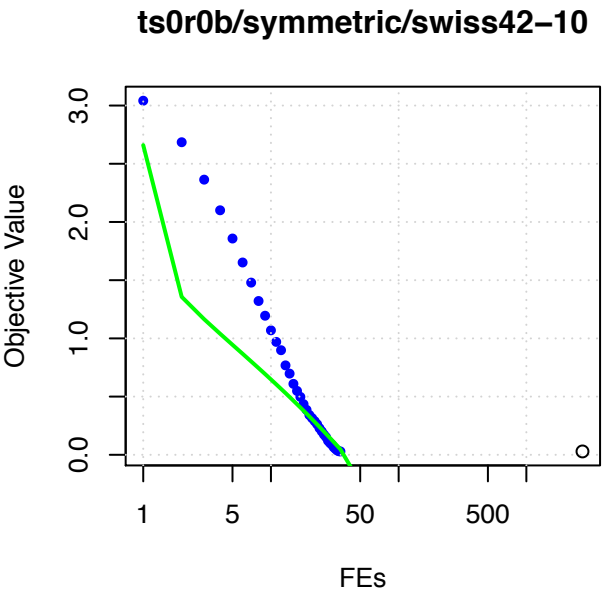
FEs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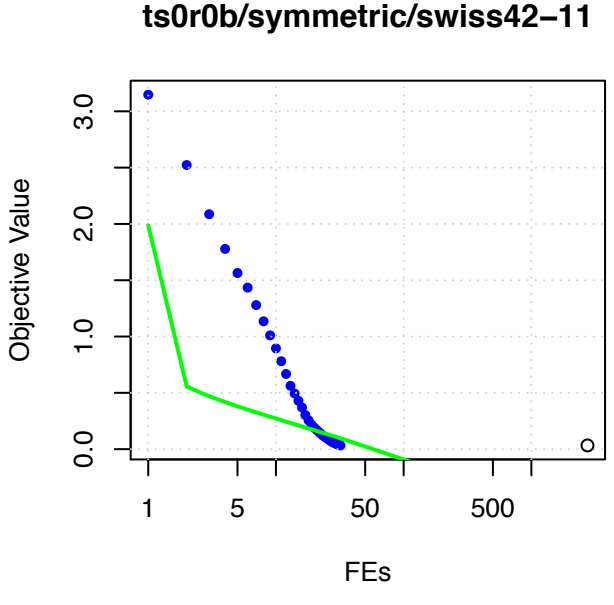
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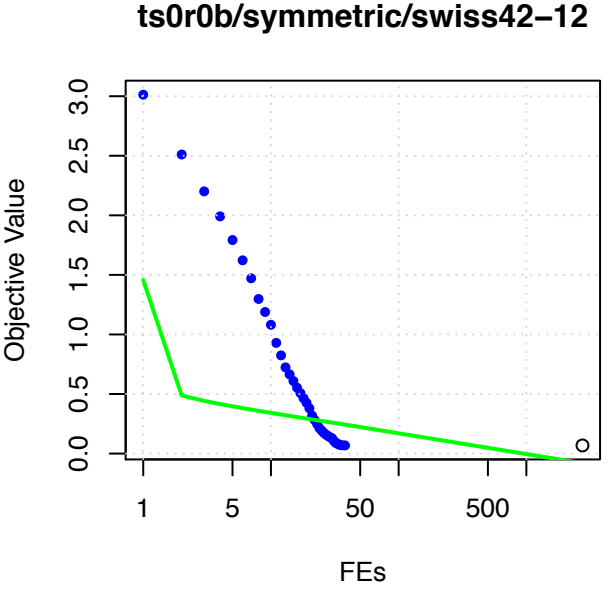
FEs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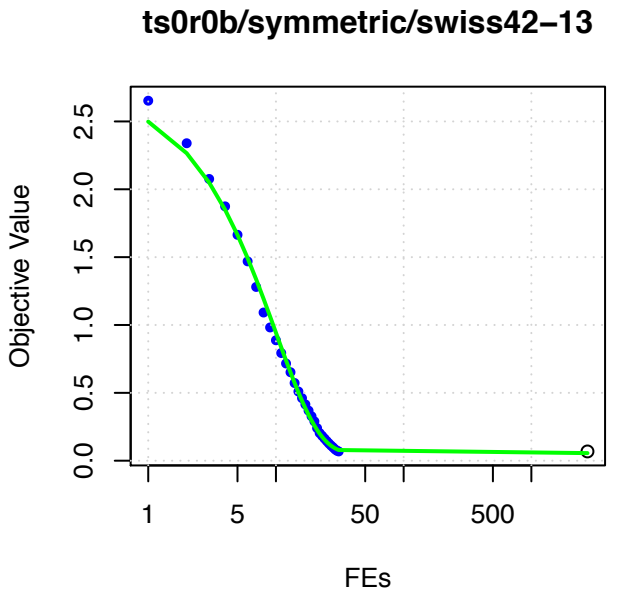
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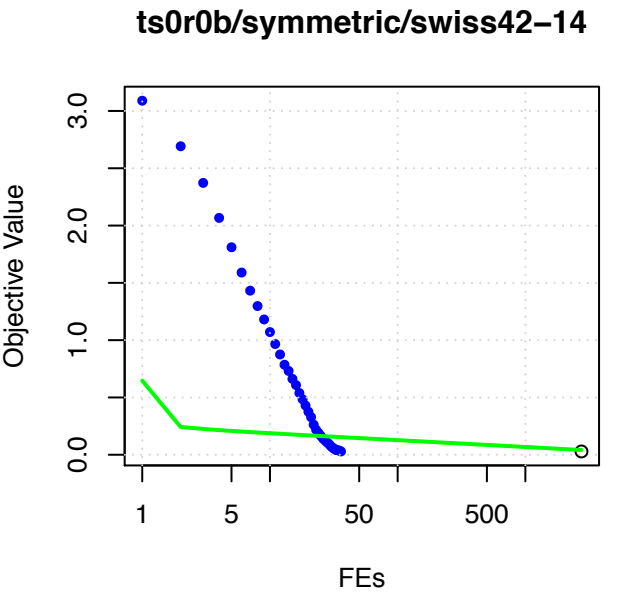
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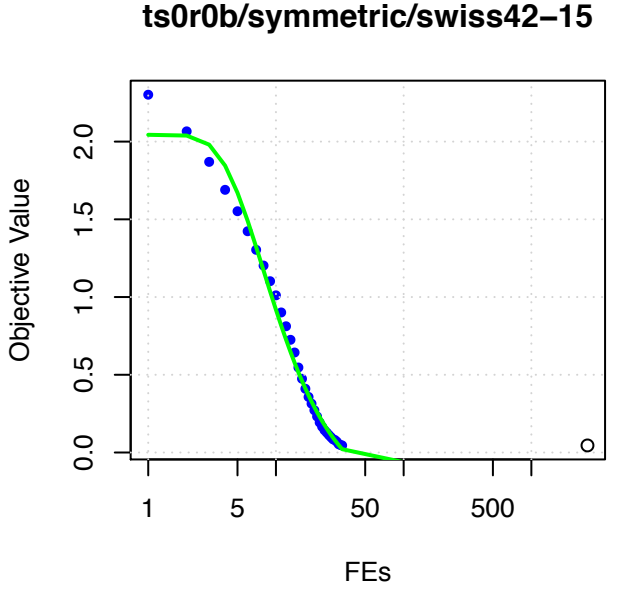
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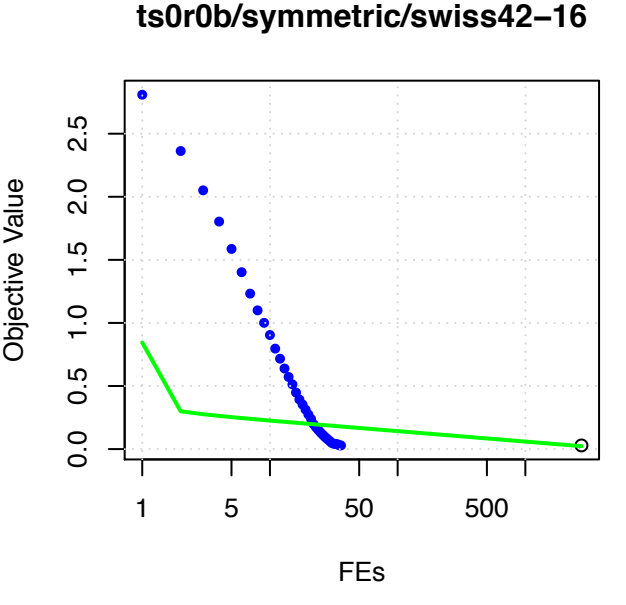
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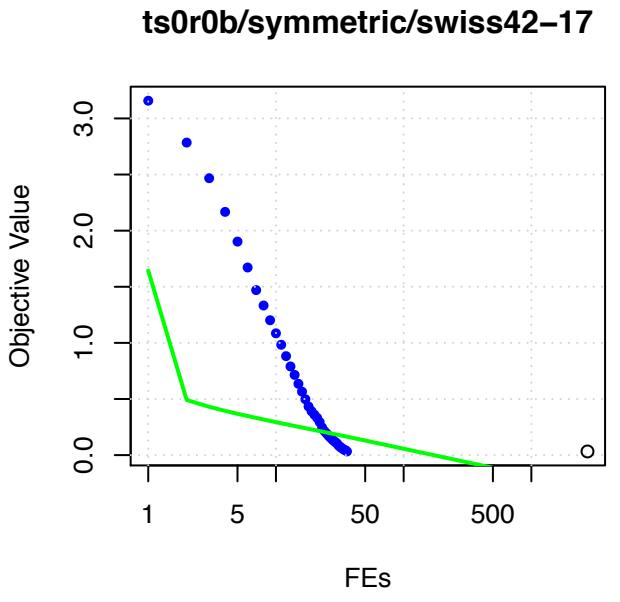
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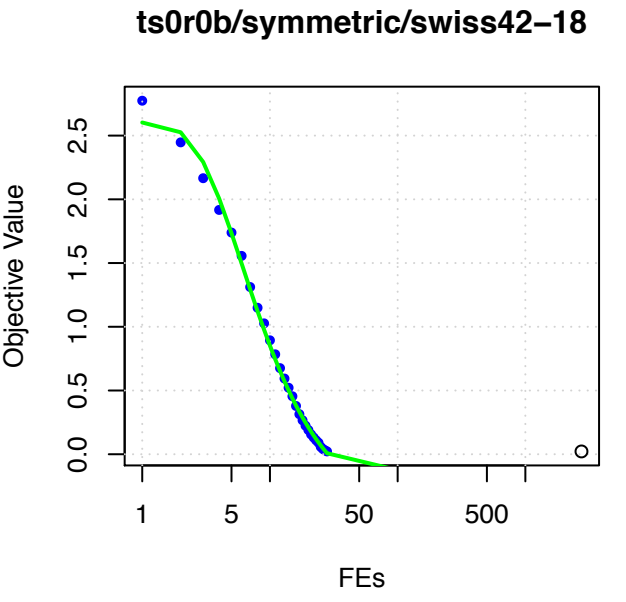
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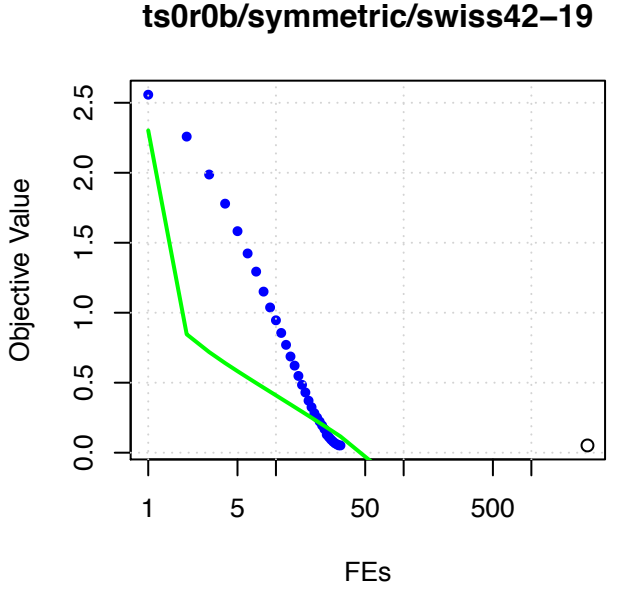
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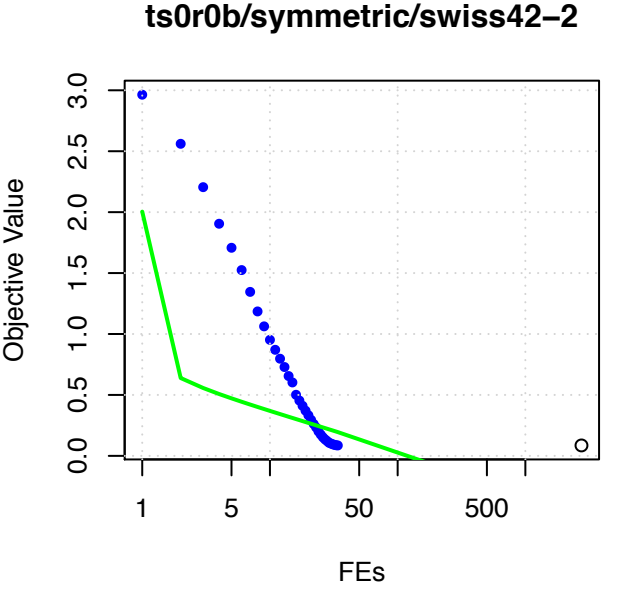
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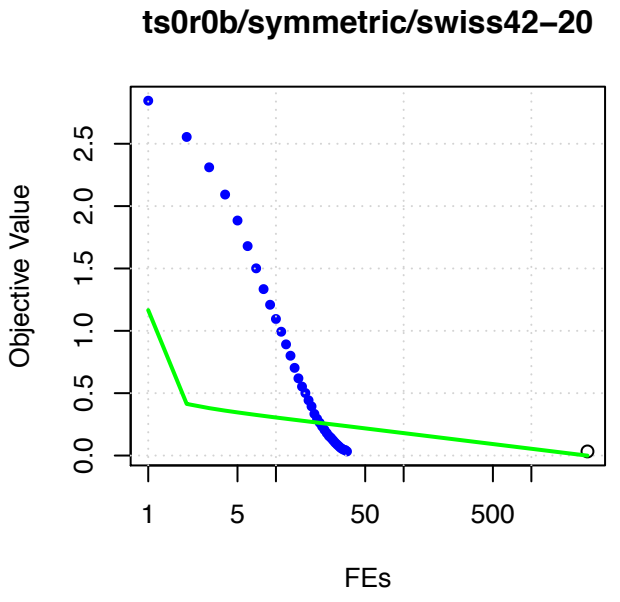
ts0r0b/symmetric/swiss42−20
Objective Value
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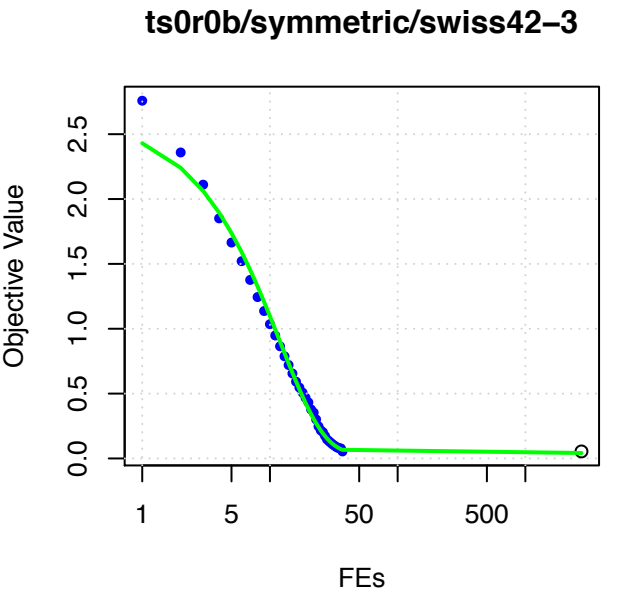
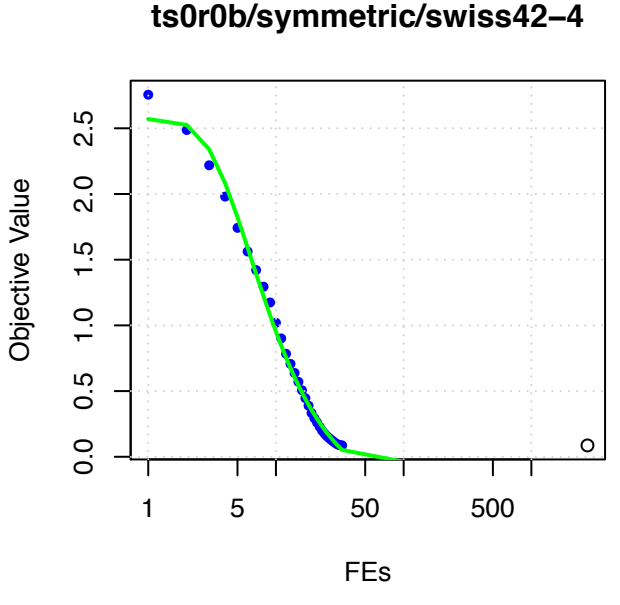
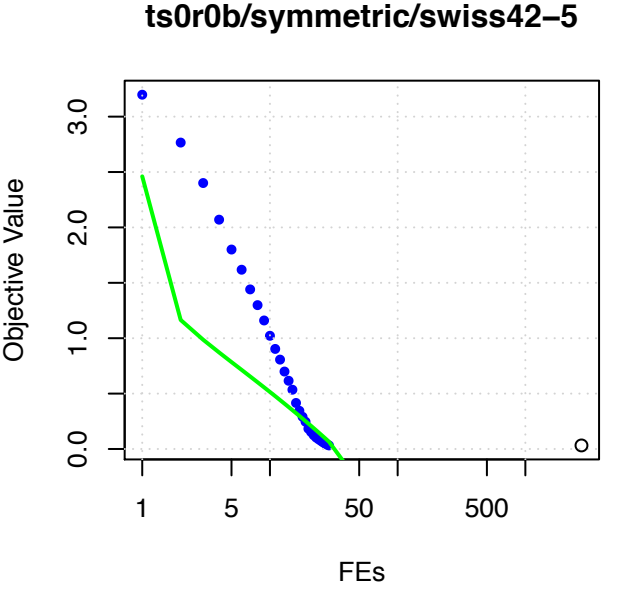
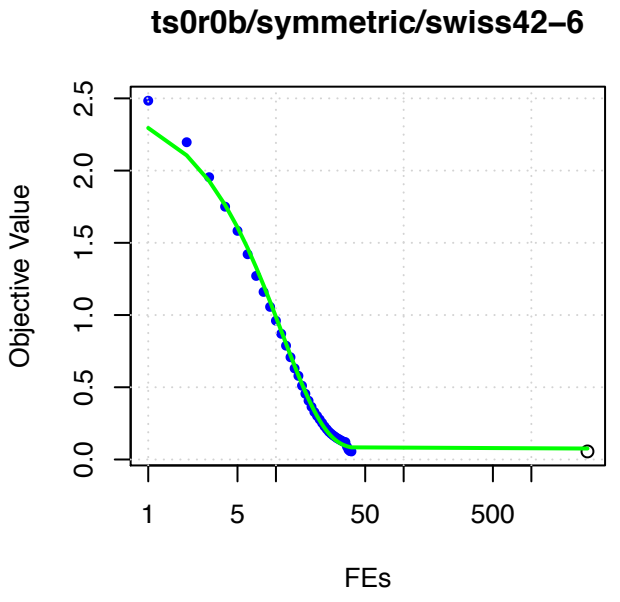
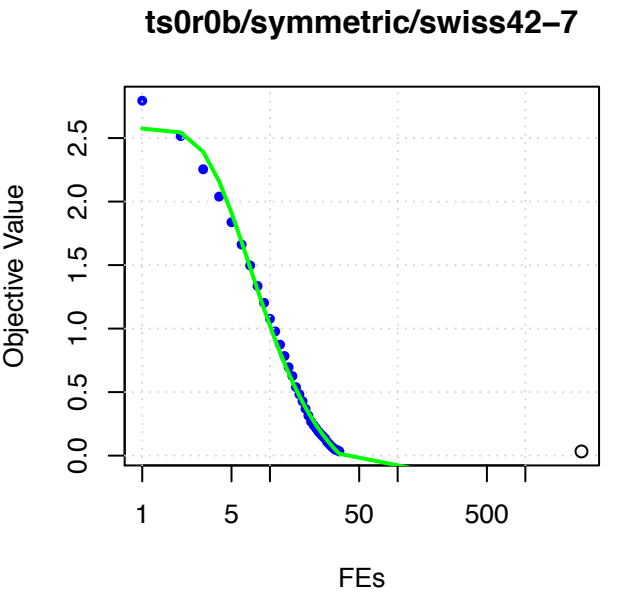
FEs

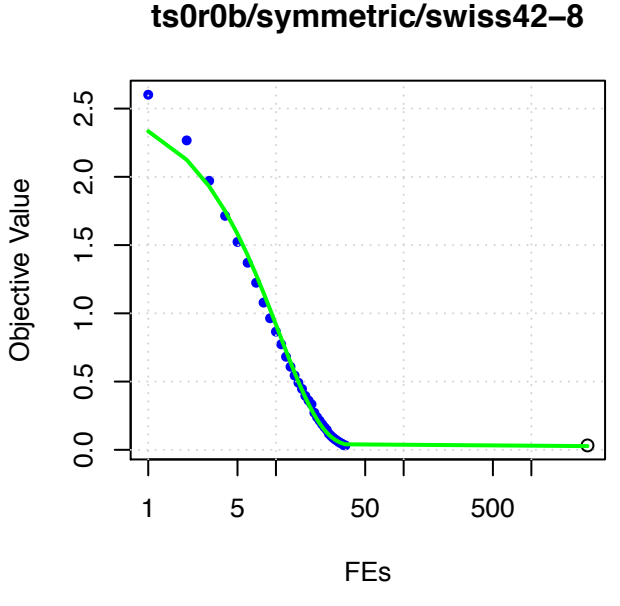

ts0r0b/symmetric/swiss42−3
Objective Value
0.0
0.5
1.0
1.5
2.0
2.5
1
5
50
500
FEs

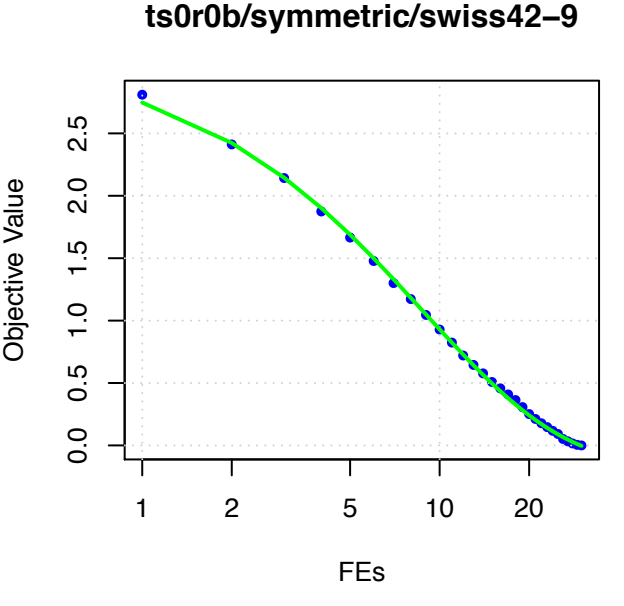

ts0r0b/symmetric/swiss42−4
Objective Value
0.0
0.5
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts0r0b/symmetric/swiss42−5
Objective Value
0.0
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0b/symmetric/swiss42−6
Objective Value
0.0
0.5
1.0
1.5
2.0
2.5
1
5
50
500
FEs


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


ts0r0b/symmetric/swiss42−8
Objective Value
0.0
0.5
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts0r0b/symmetric/swiss42−9
Objective Value
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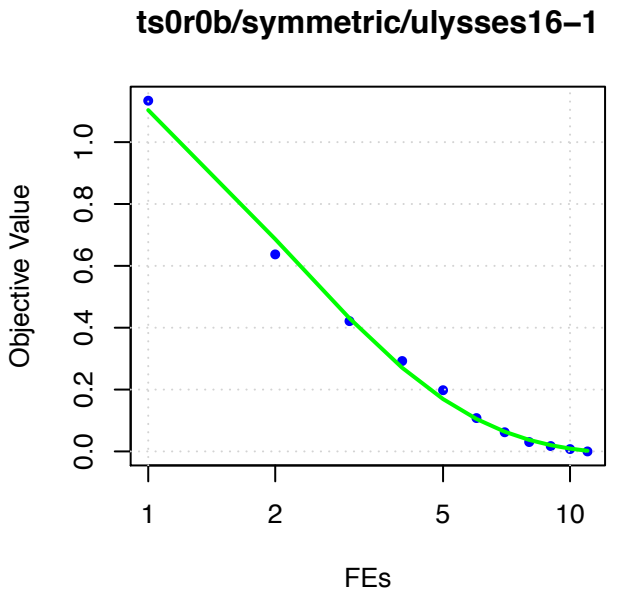
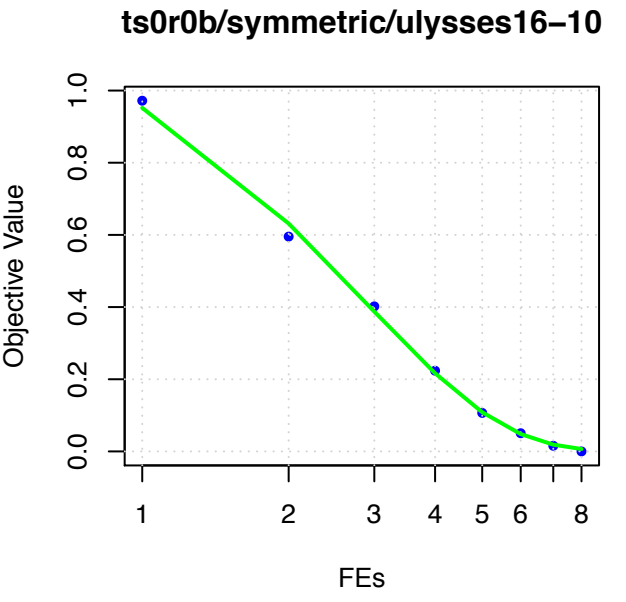
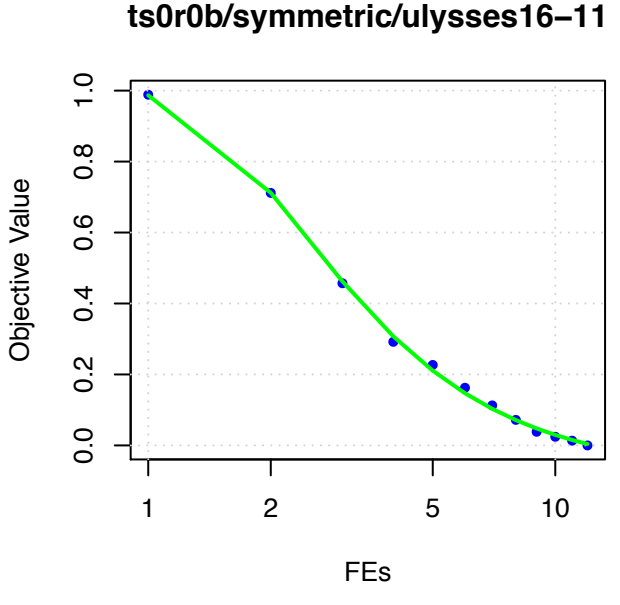
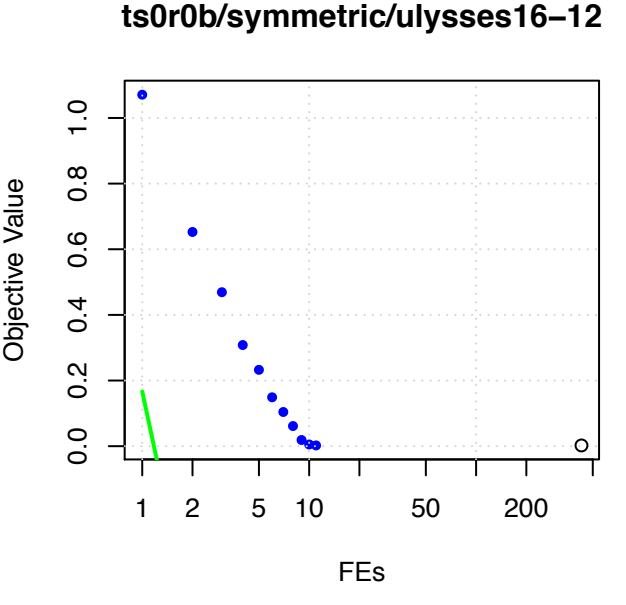
0.5
1.0
1.5
2.0
2.5
1
2
5
10
20
FEs


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


ts0r0b/symmetric/ulysses16−10
Objective Value
0.0
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5
6
8
FEs


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


ts0r0b/symmetric/ulysses16−12
Objective Value
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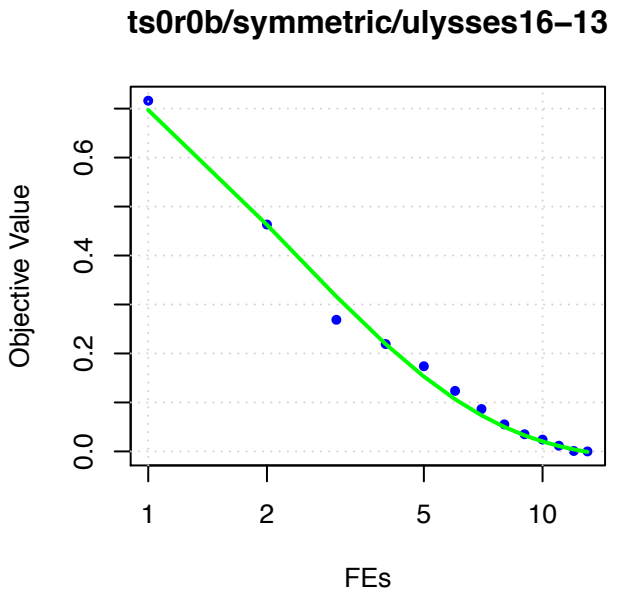
0.2
0.4
0.6
0.8
1.0
1
2
5
10
50
200
FEs


ts0r0b/symmetric/ulysses16−13
Objective Value
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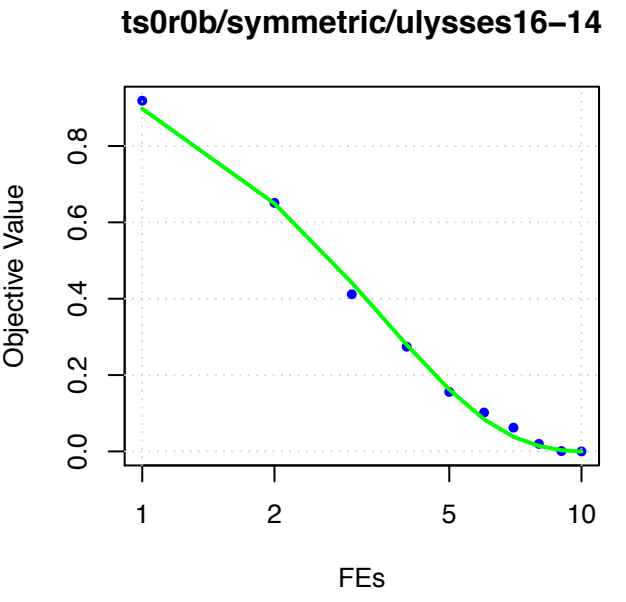
0.2
0.4
0.6
1
2
5
10
FEs


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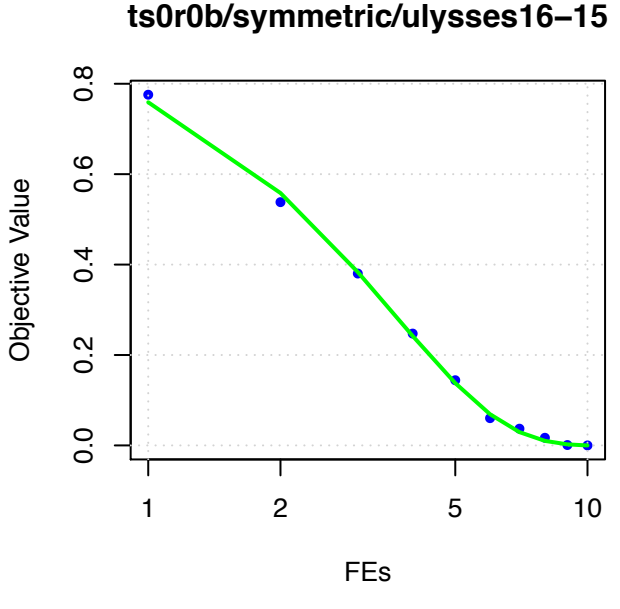
0.2
0.4
0.6
0.8
1
2
5
10
FEs


ts0r0b/symmetric/ulysses16−15
Objective Value
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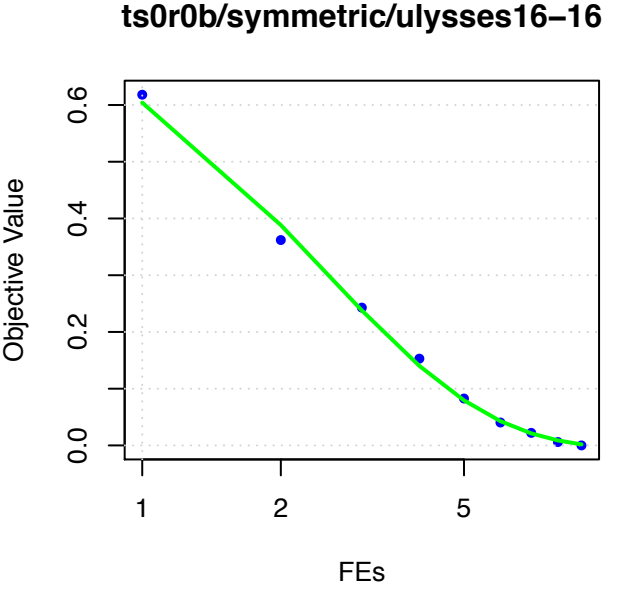
0.2
0.4
0.6
0.8
1
2
5
10
FEs


ts0r0b/symmetric/ulysses16−16
Objective Value
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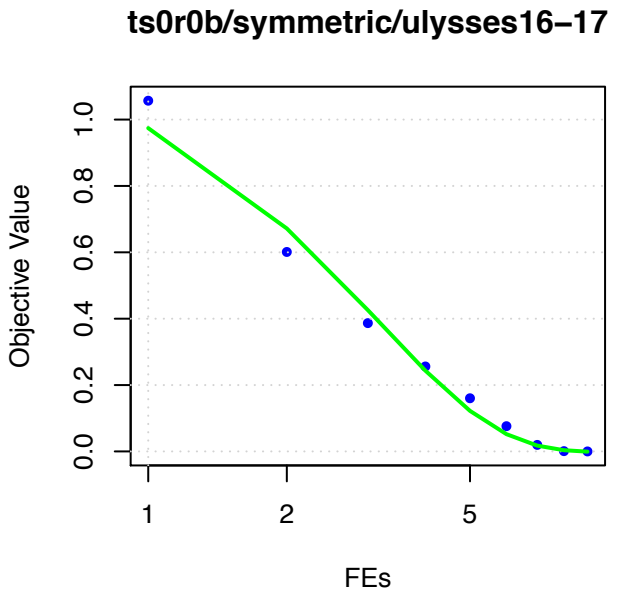
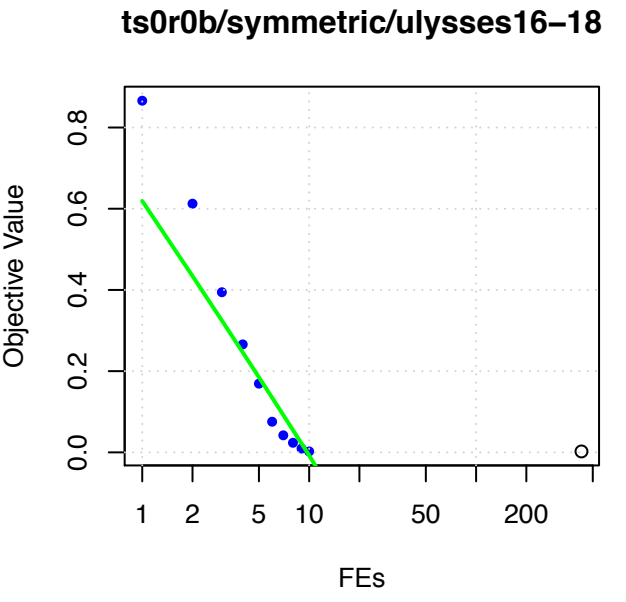
0.2
0.4
0.6
1
2
5
FEs


ts0r0b/symmetric/ulysses16−17
Objective Value
0.0
0.2
0.4
0.6
0.8
1.0
1
2
5
FEs


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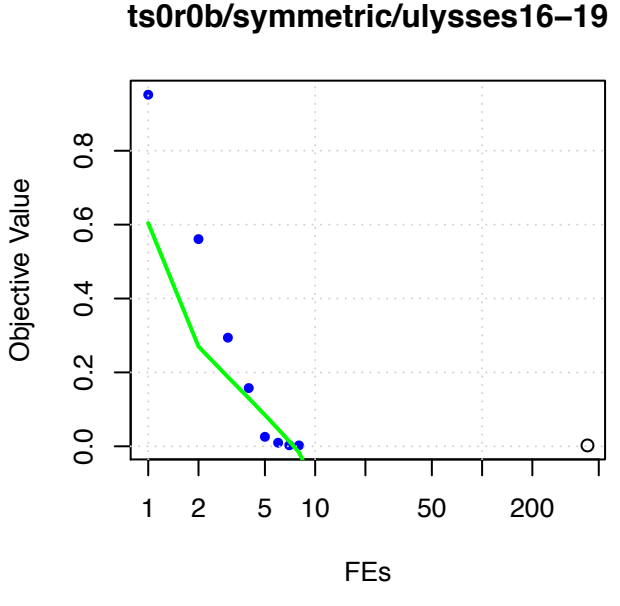
0.2
0.4
0.6
0.8
1
2
5
10
50
200
FEs


ts0r0b/symmetric/ulysses16−19
Objective Value
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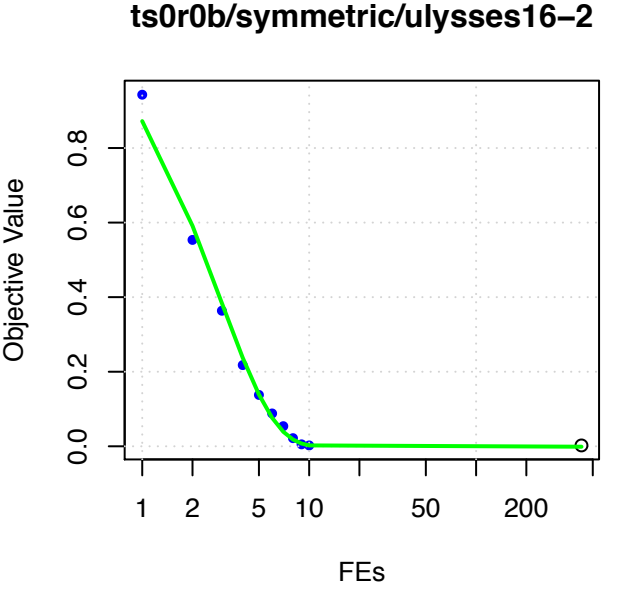
0.2
0.4
0.6
0.8
1
2
5
10
50
200
FEs


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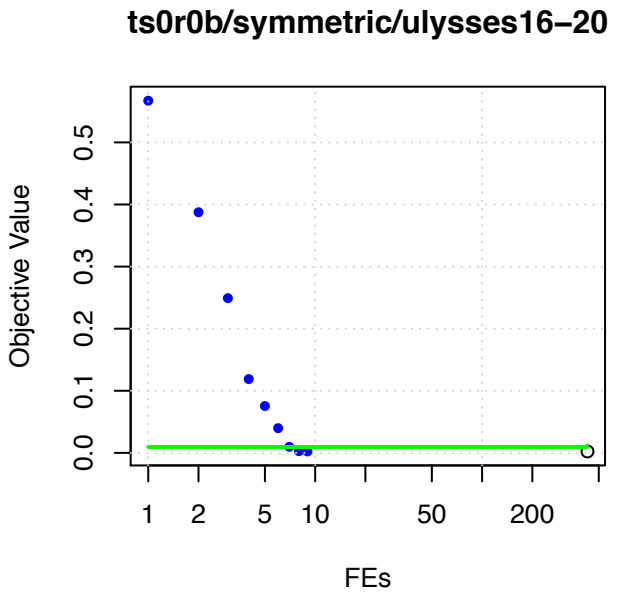
0.2
0.4
0.6
0.8
1
2
5
10
50
200
FEs


ts0r0b/symmetric/ulysses16−20
Objective Value
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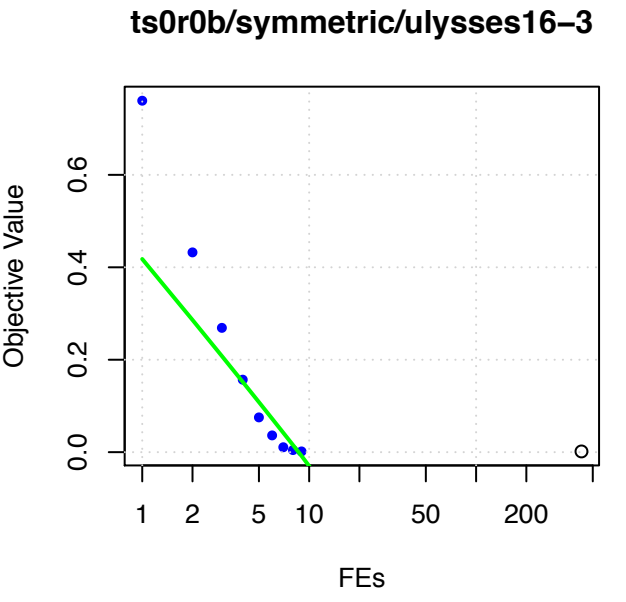
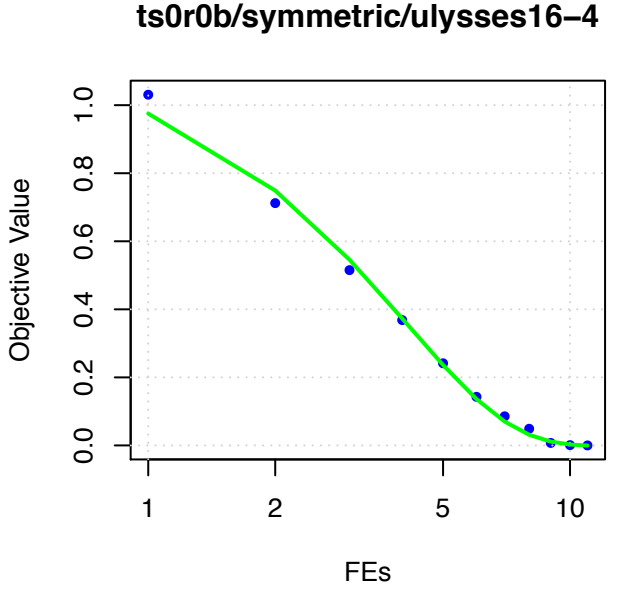
0.1
0.2
0.3
0.4
0.5
1
2
5
10
50
200
FEs


ts0r0b/symmetric/ulysses16−3
Objective Value
0.0
0.2
0.4
0.6
1
2
5
10
50
200
FEs


ts0r0b/symmetric/ulysses16−4
Objective Value
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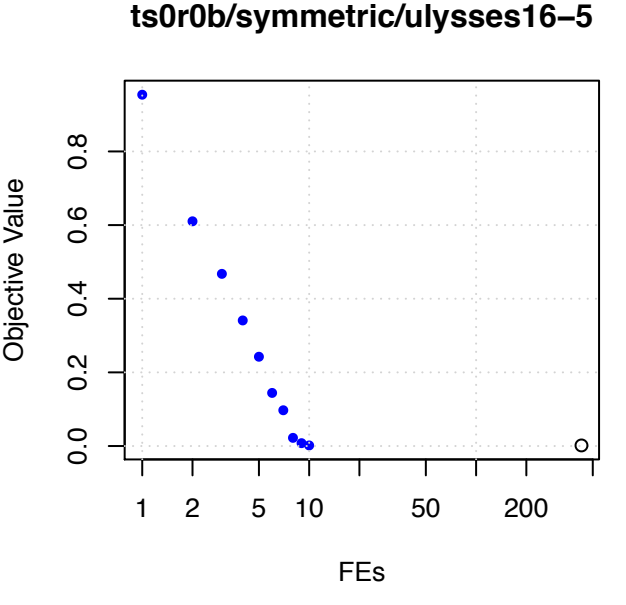
0.4
0.6
0.8
1.0
1
2
5
10
FEs


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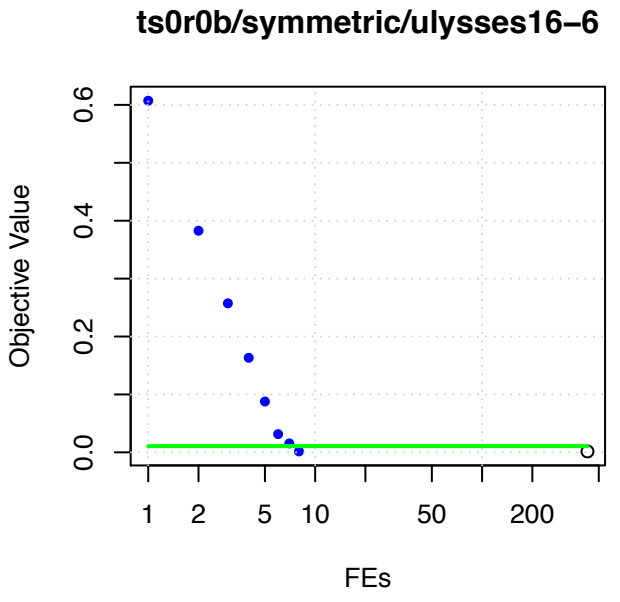
0.2
0.4
0.6
0.8
1
2
5
10
50
200
FEs


ts0r0b/symmetric/ulysses16−6
Objective Value
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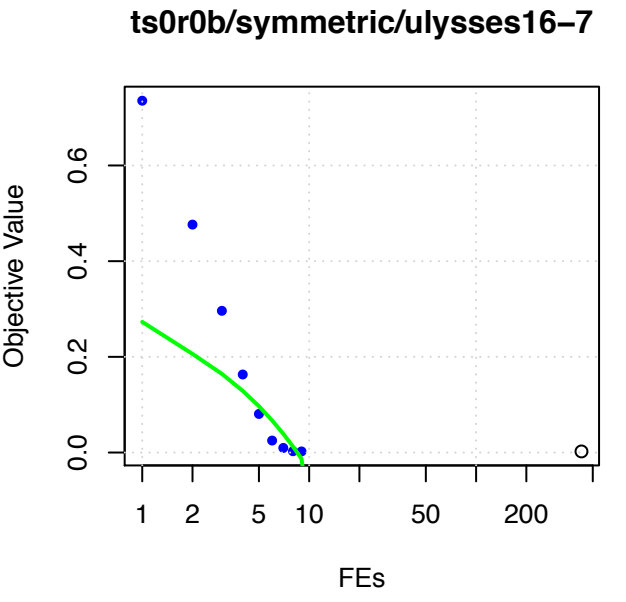
0.2
0.4
0.6
1
2
5
10
50
200
FEs


ts0r0b/symmetric/ulysses16−7
Objective Value
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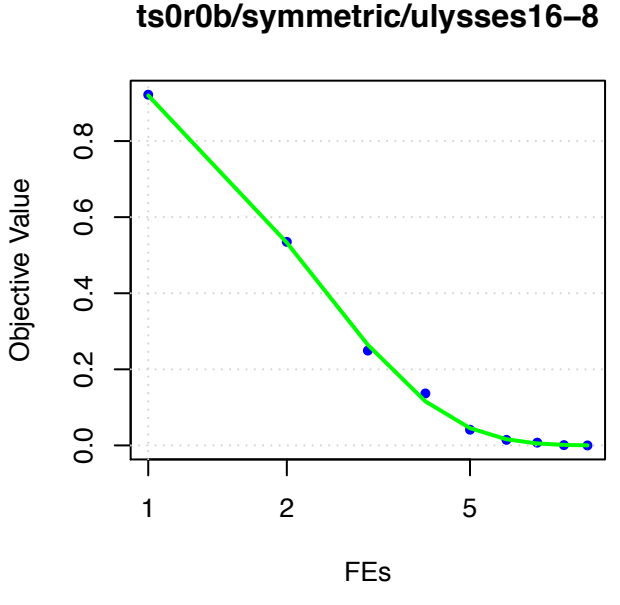
0.2
0.4
0.6
1
2
5
10
50
200
FEs


ts0r0b/symmetric/ulysses16−8
Objective Value
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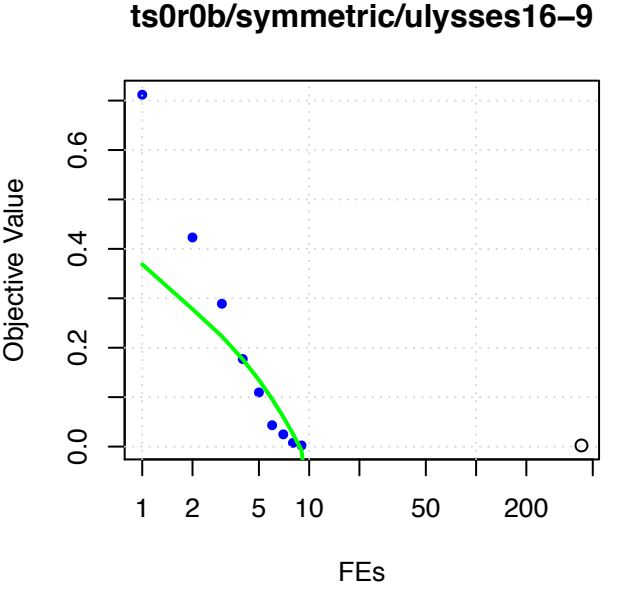
0.4
0.6
0.8
1
2
5
FEs


ts0r0b/symmetric/ulysses16−9
Objective Value
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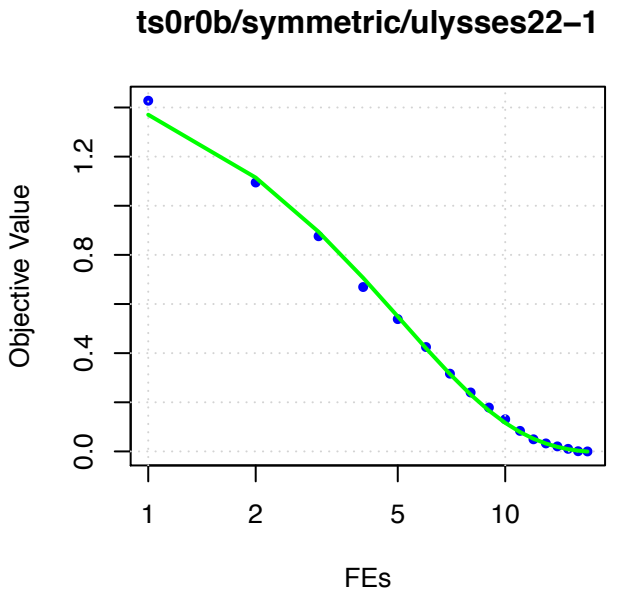
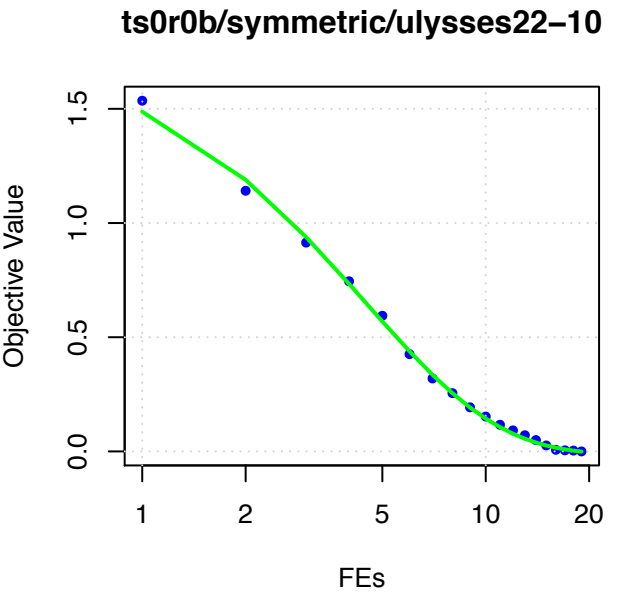
0.4
0.6
1
2
5
10
50
200
FEs


ts0r0b/symmetric/ulysses22−1
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
FEs


ts0r0b/symmetric/ulysses22−10
Objective Value
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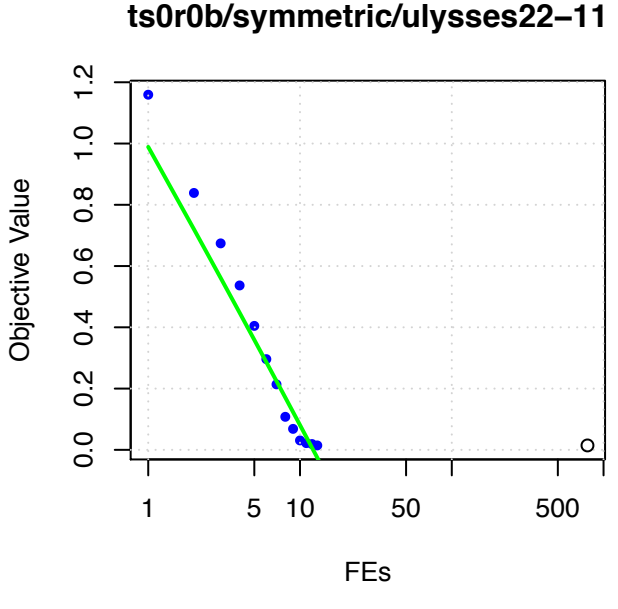
0.5
1.0
1.5
1
2
5
10
20
FEs


ts0r0b/symmetric/ulysses22−11
Objective Value
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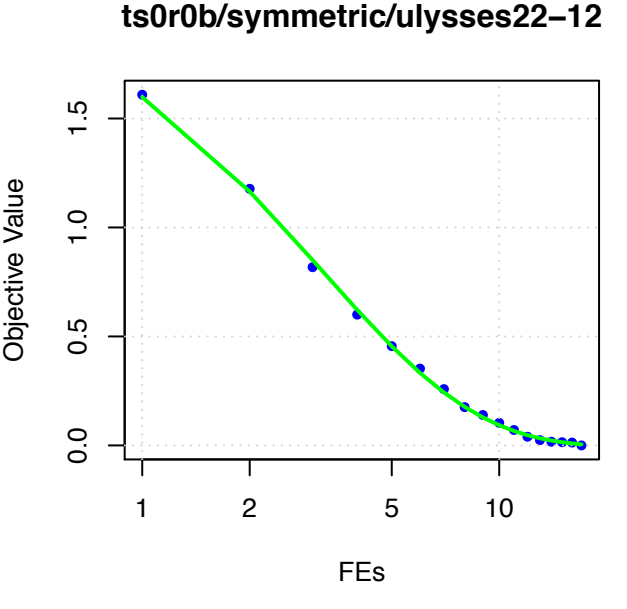
0.2
0.4
0.6
0.8
1.0
1.2
1
5
10
50
500
FEs


ts0r0b/symmetric/ulysses22−12
Objective Value
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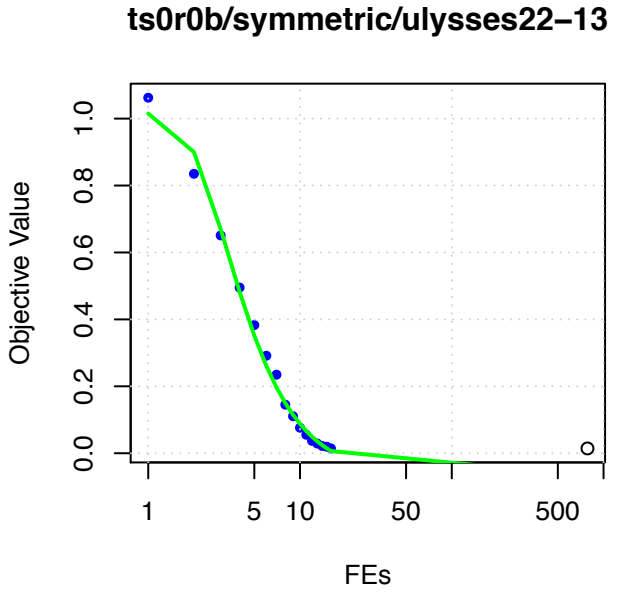
1.0
1.5
1
2
5
10
FEs


ts0r0b/symmetric/ulysses22−13
Objective Value
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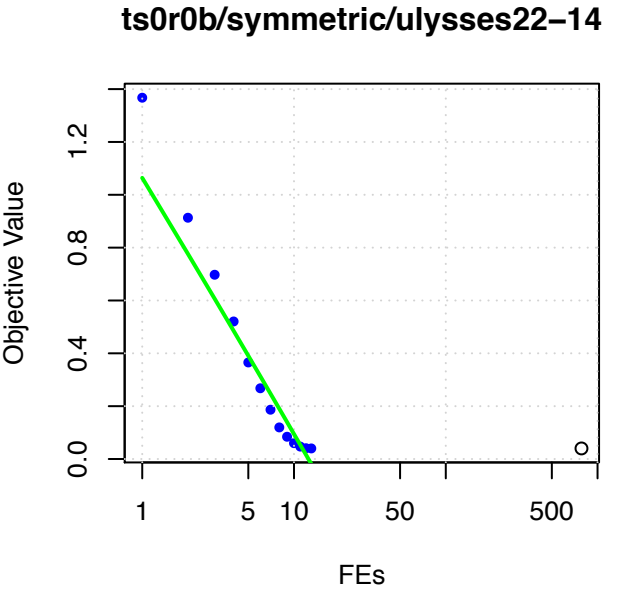
0.2
0.4
0.6
0.8
1.0
1
5
10
50
500
FEs


ts0r0b/symmetric/ulysses22−14
Objective Value
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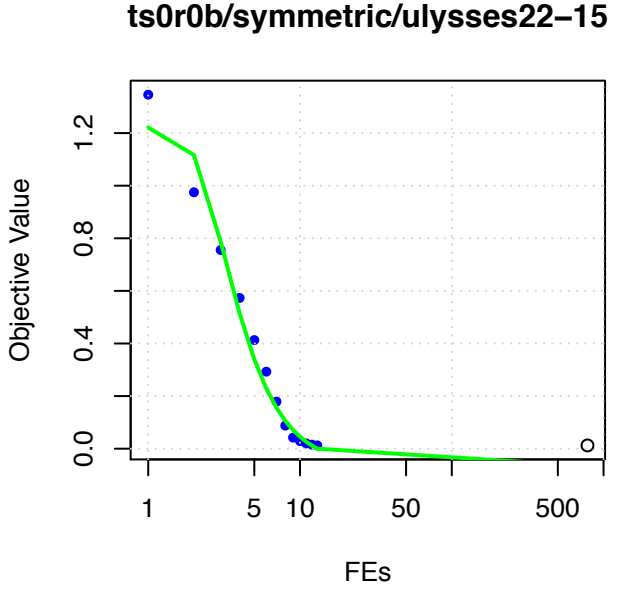
0.4
0.8
1.2
1
5
10
50
500
FEs


ts0r0b/symmetric/ulysses22−15
Objective Value
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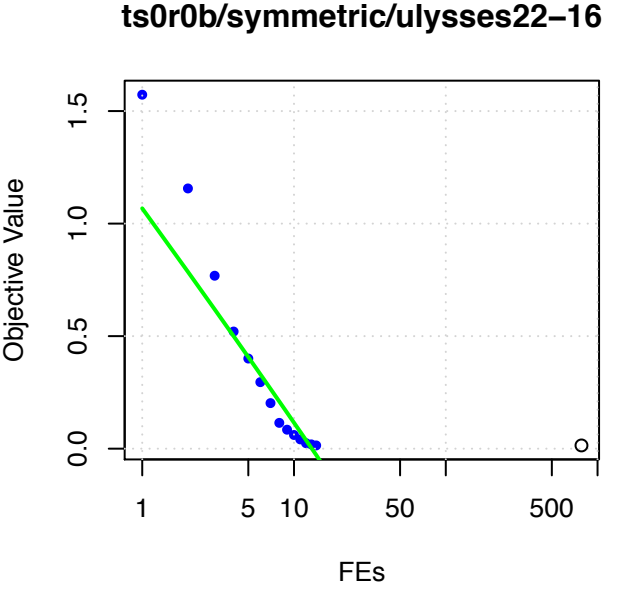
0.4
0.8
1.2
1
5
10
50
500
FEs


ts0r0b/symmetric/ulysses22−16
Objective Value
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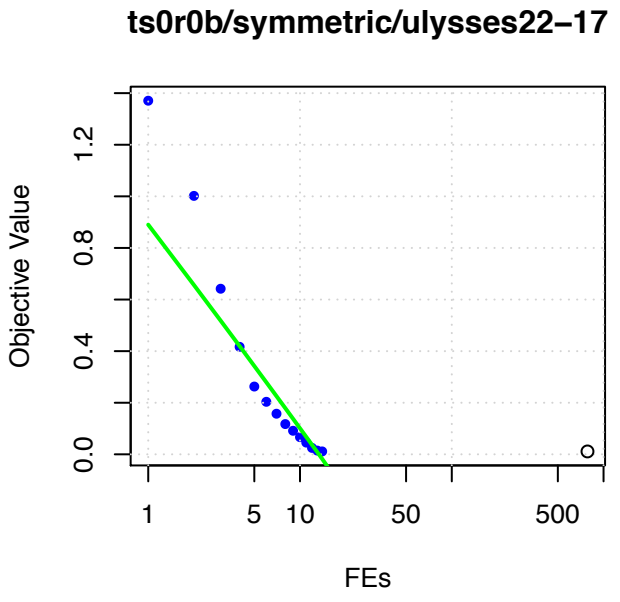
0.5
1.0
1.5
1
5
10
50
500
FEs


ts0r0b/symmetric/ulysses22−17
Objective Value
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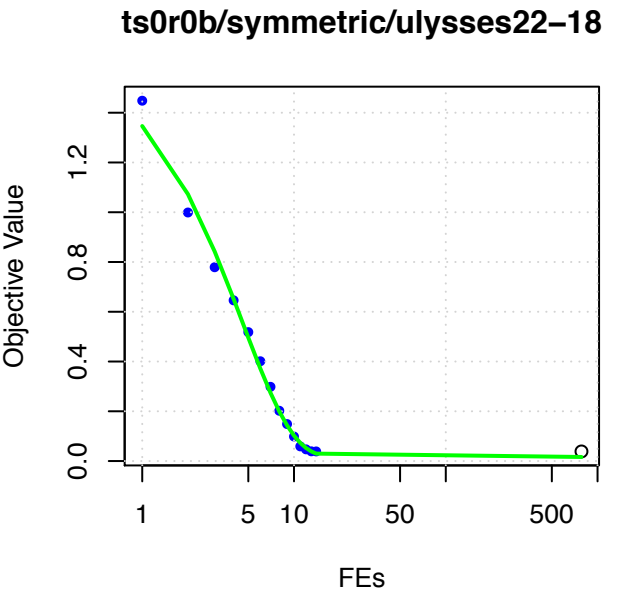
0.4
0.8
1.2
1
5
10
50
500
FEs


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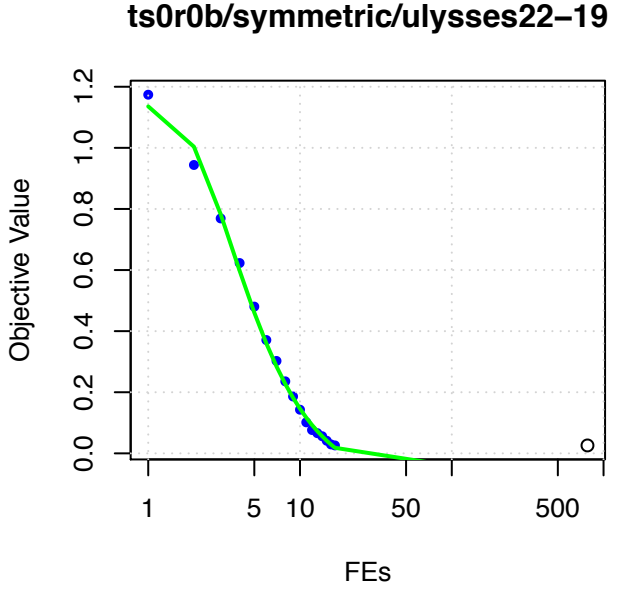
0.4
0.8
1.2
1
5
10
50
500
FEs


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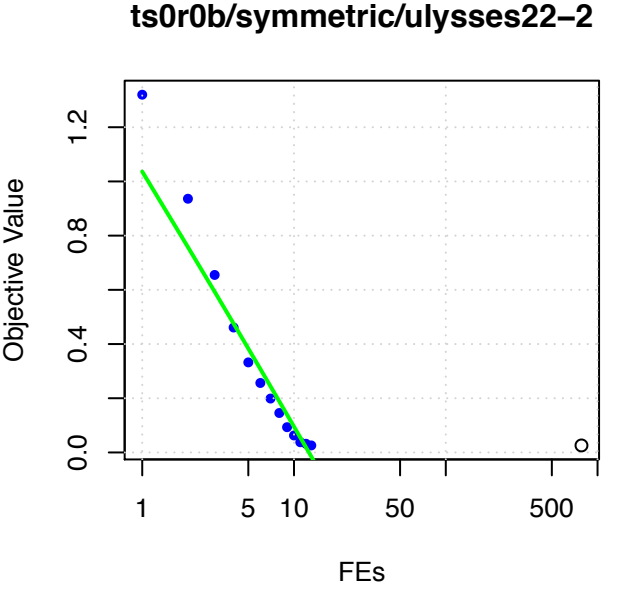
0.2
0.4
0.6
0.8
1.0
1.2
1
5
10
50
500
FEs


ts0r0b/symmetric/ulysses22−2
Objective Value
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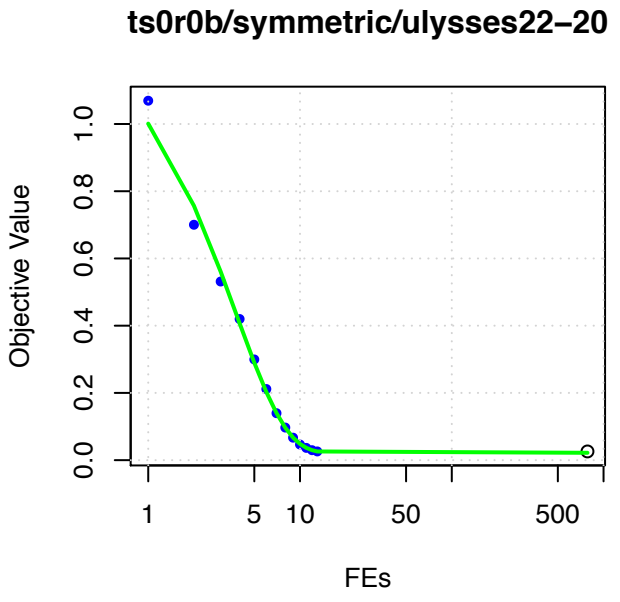
0.4
0.8
1.2
1
5
10
50
500
FEs


ts0r0b/symmetric/ulysses22−20
Objective Value
0.0
0.2
0.4
0.6
0.8
1.0
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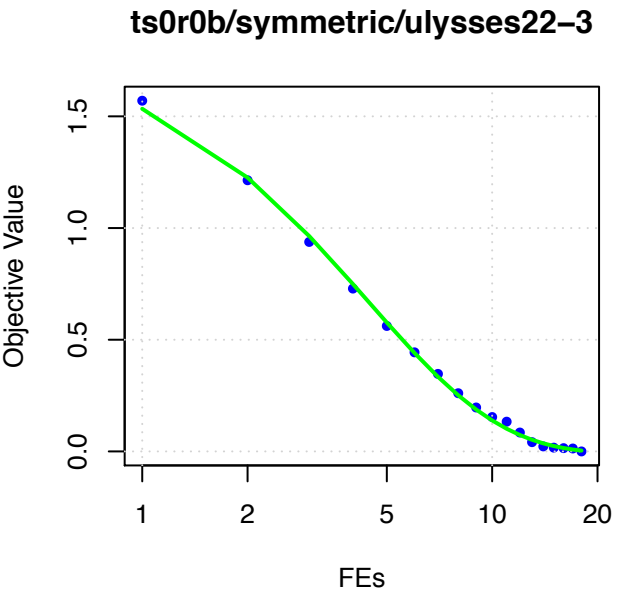
500
FEs


ts0r0b/symmetric/ulysses22−3
Objective Value
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0.5
1.0
1.5
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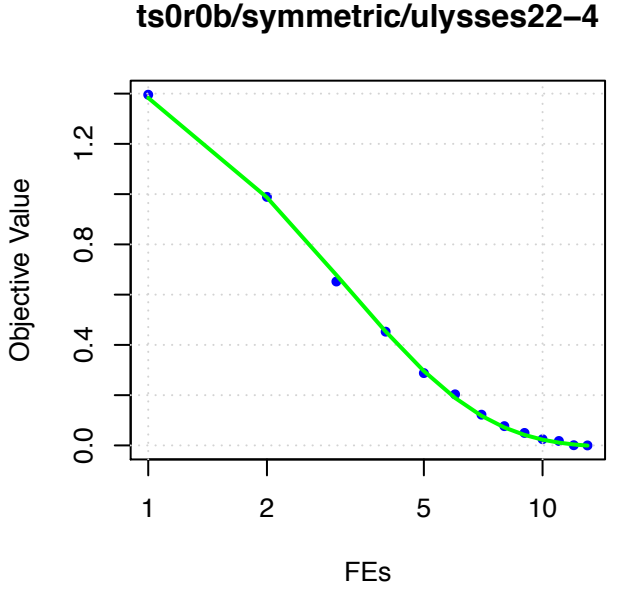
5
10
20
FEs


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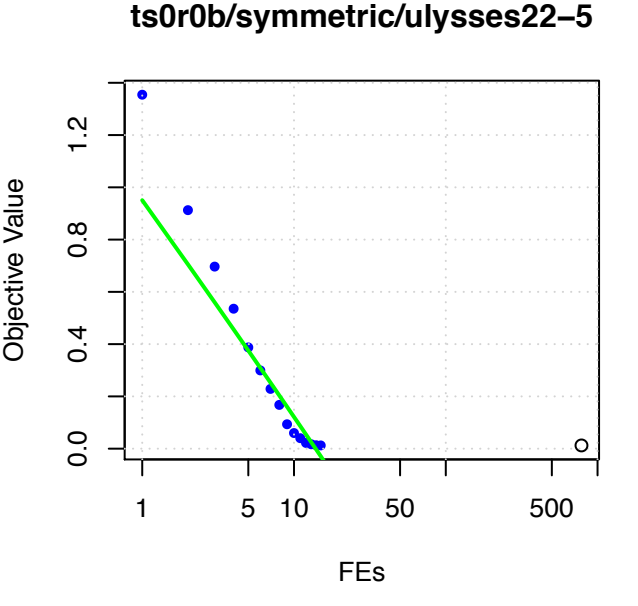
0.4
0.8
1.2
1
2
5
10
FEs


ts0r0b/symmetric/ulysses22−5
Objective Value
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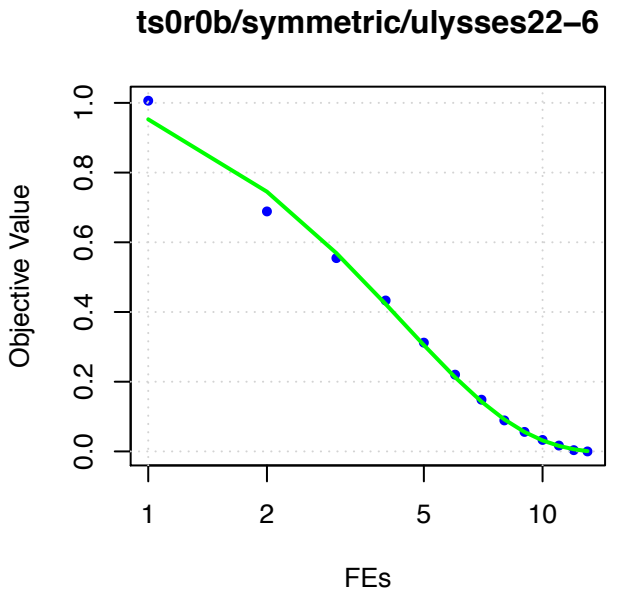
0.4
0.8
1.2
1
5
10
50
500
FEs


ts0r0b/symmetric/ulysses22−6
Objective Value
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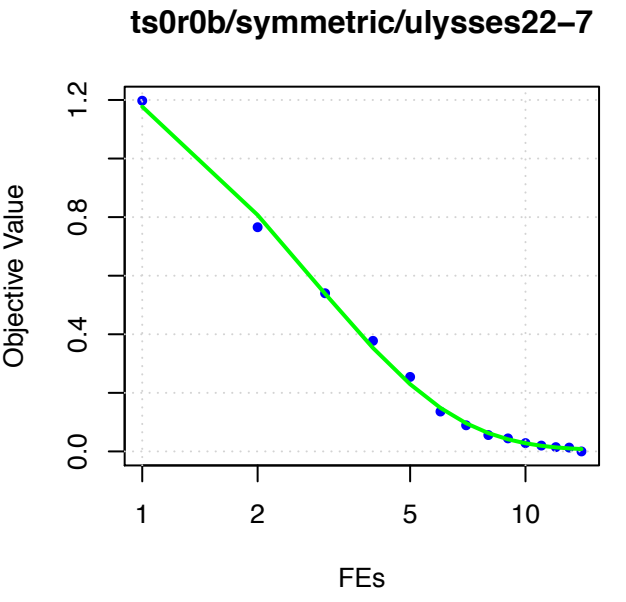
0.4
0.6
0.8
1.0
1
2
5
10
FEs


ts0r0b/symmetric/ulysses22−7
Objective Value
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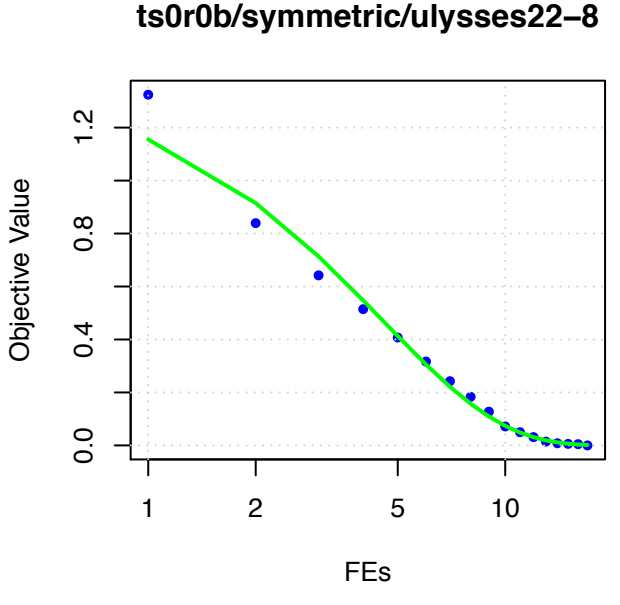
0.4
0.8
1.2
1
2
5
10
FEs


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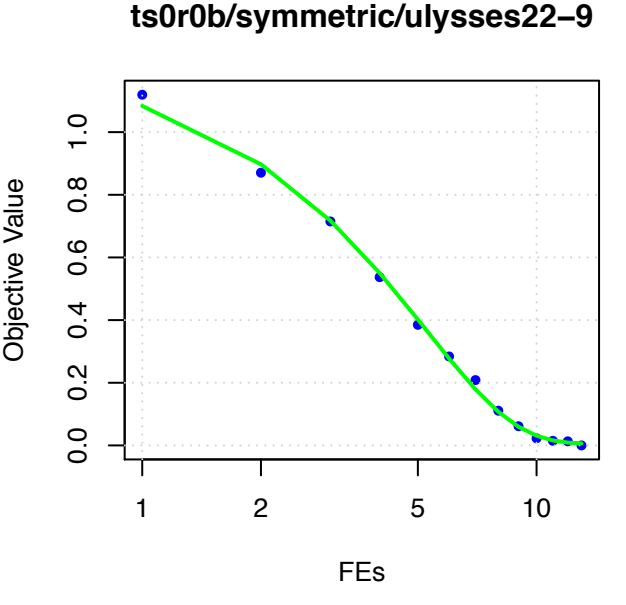
0.4
0.8
1.2
1
2
5
10
FEs


ts0r0b/symmetric/ulysses22−9
Objective Value
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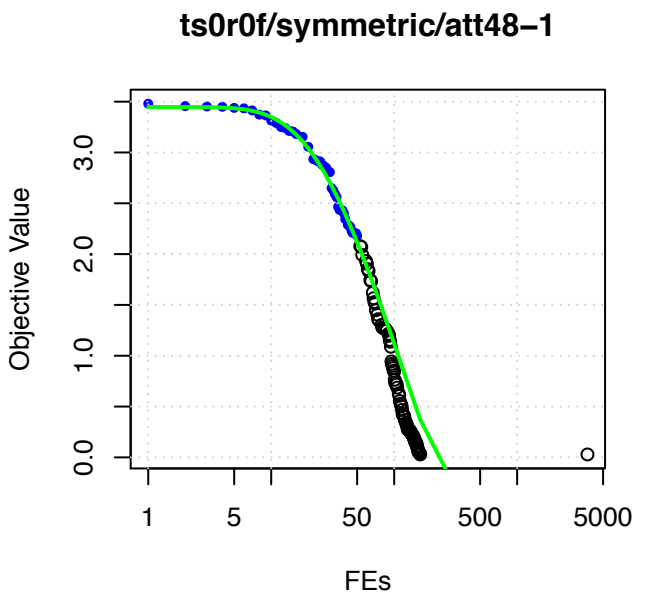
0.4
0.6
0.8
1.0
1
2
5
10
FEs


ts0r0f/symmetric/att48−1
Objective Value
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1.0
2.0
3.0
1
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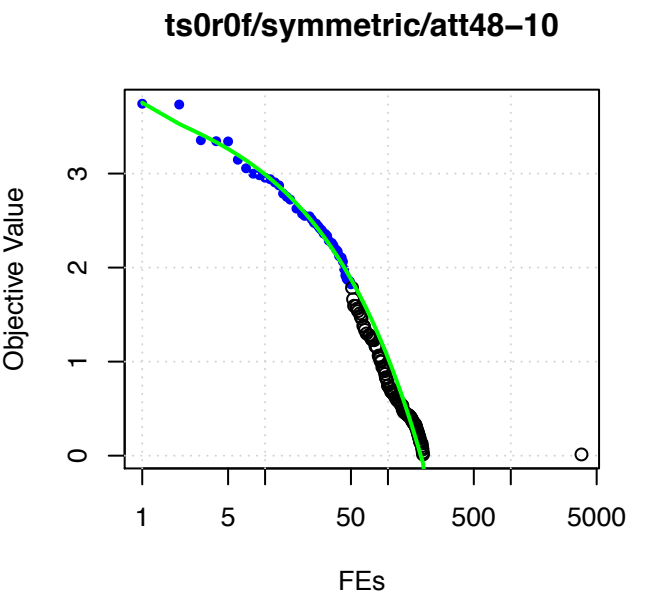
50
500
5000
FEs


ts0r0f/symmetric/att48−10
Objective Value
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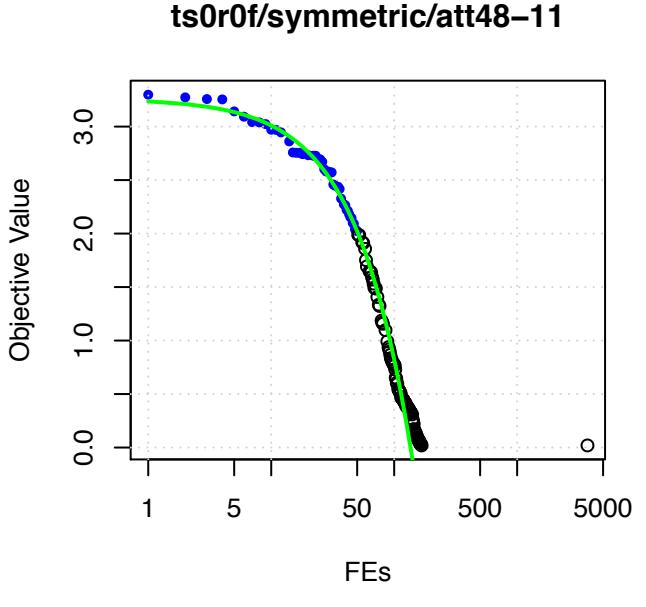
2
3
1
5
50
500
5000
FEs


ts0r0f/symmetric/att48−11
Objective Value
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1.0
2.0
3.0
1
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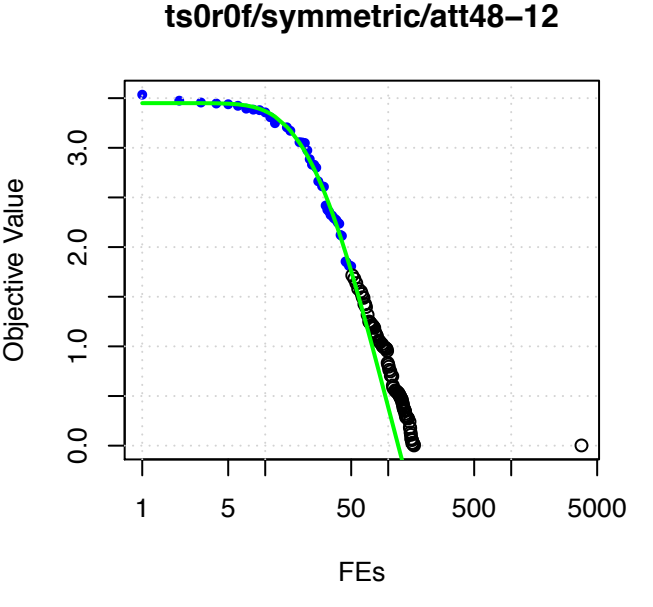
50
500
5000
FEs


ts0r0f/symmetric/att48−12
Objective Value
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2.0
3.0
1
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50
500
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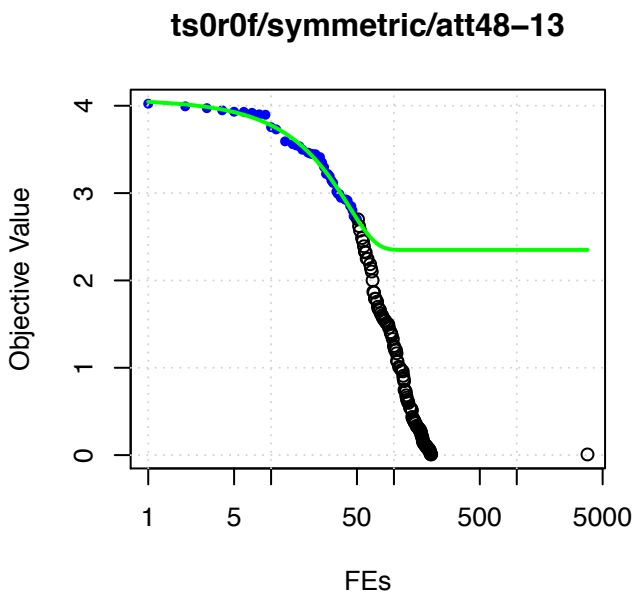
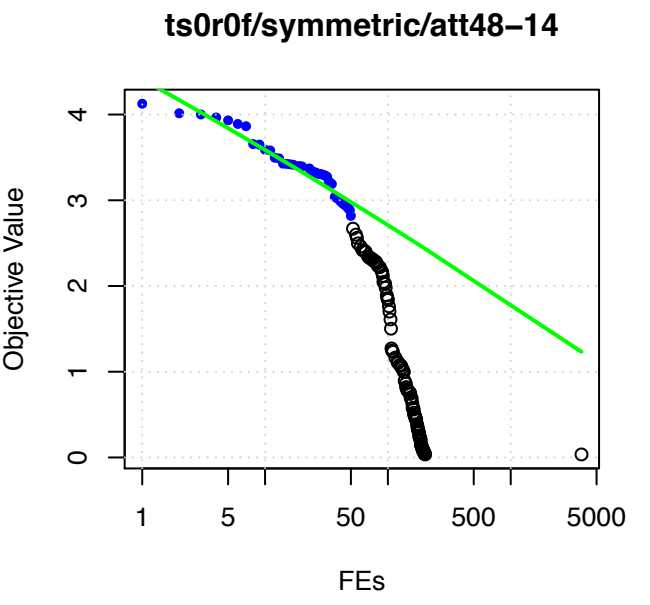
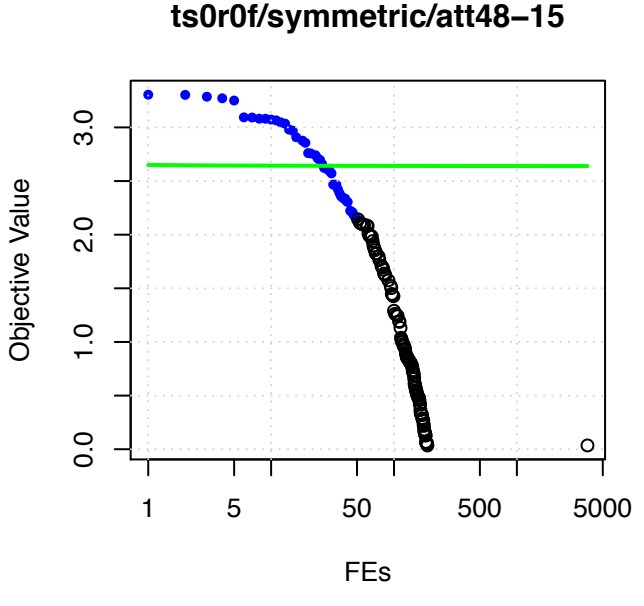
FEs


ts0r0f/symmetric/att48−13
Objective Value
FEs
0
1
2
3
4
1
5
50
500
5000


ts0r0f/symmetric/att48−14
Objective Value
FEs
0
1
2
3
4
1
5
50
500
5000


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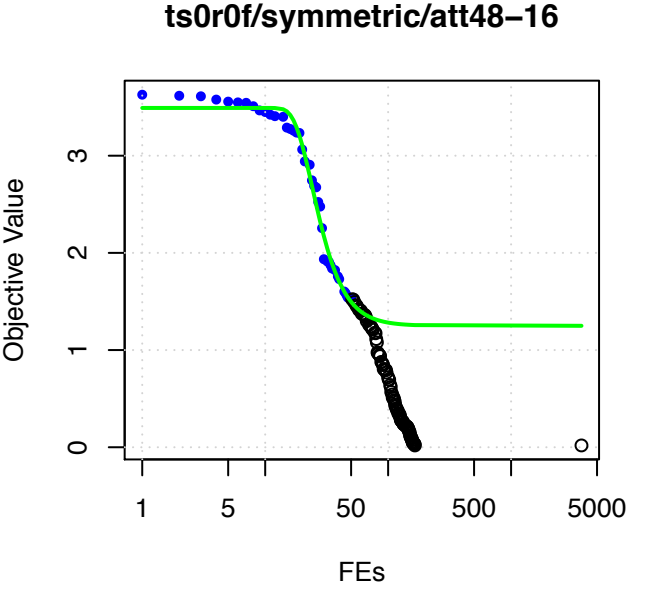
1.0
2.0
3.0
1
5
50
500
5000


ts0r0f/symmetric/att48−16
Objective Value
FEs
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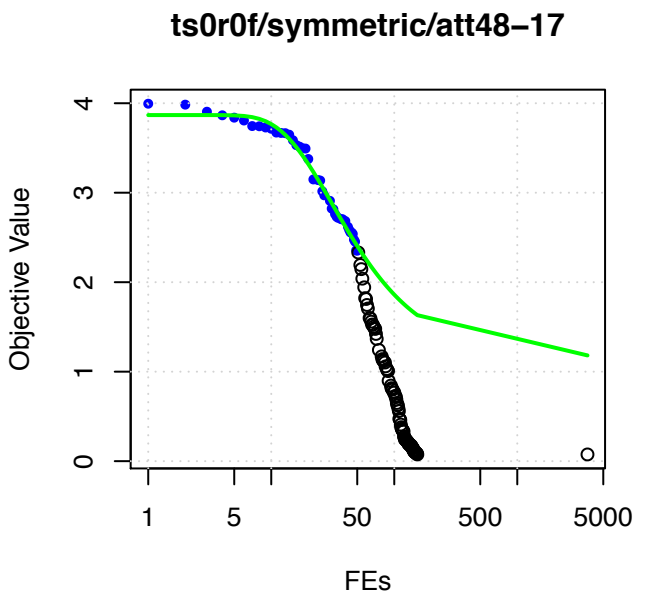
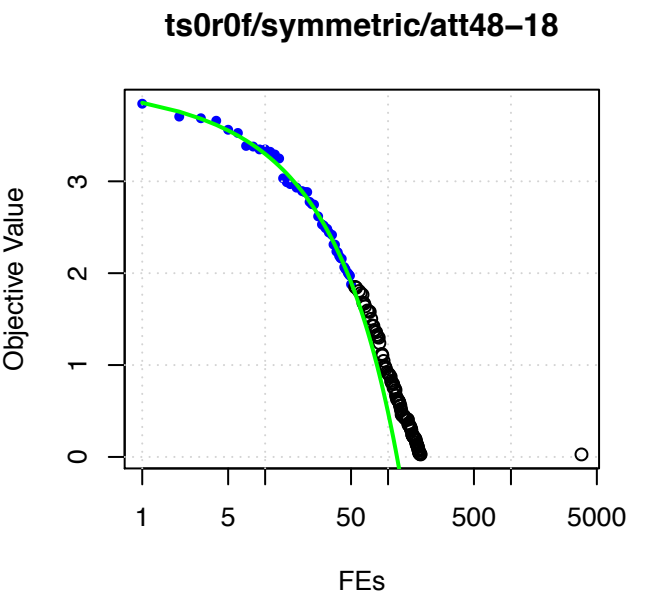
2
3
1
5
50
500
5000


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


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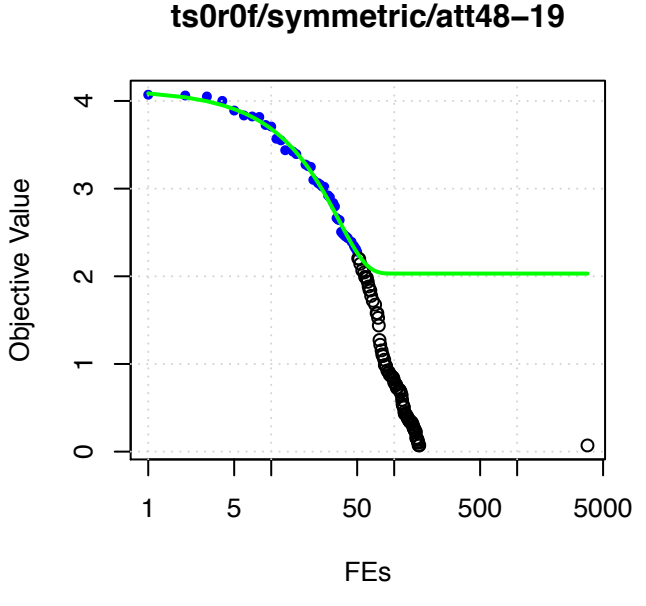
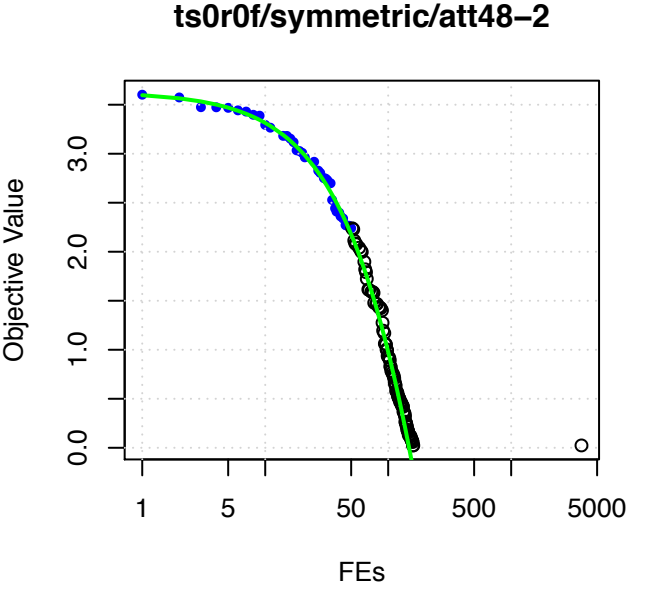
1
2
3
1
5
50
500
5000


ts0r0f/symmetric/att48−19
Objective Value
FEs
0
1
2
3
4
1
5
50
500
5000


ts0r0f/symmetric/att48−2
Objective Value
FEs
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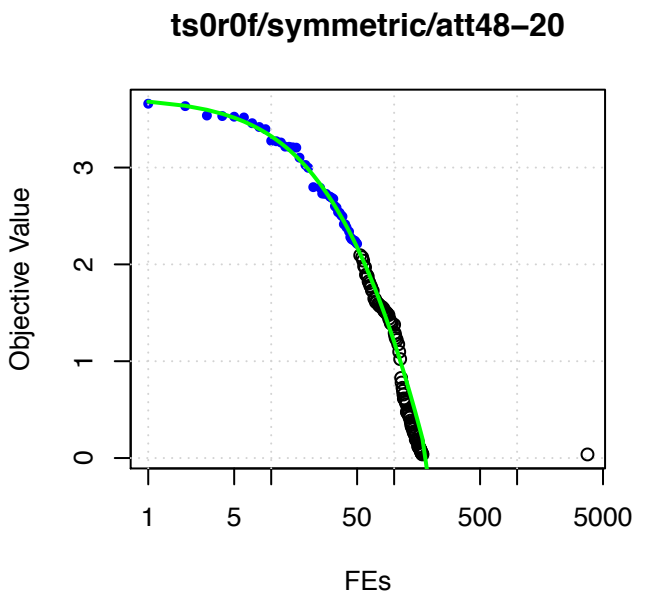
1.0
2.0
3.0
1
5
50
500
5000


ts0r0f/symmetric/att48−20
Objective Value
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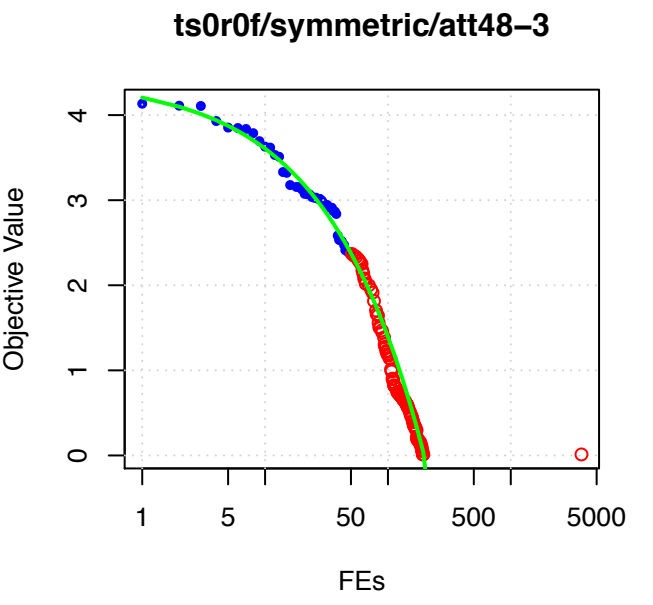
2
3
1
5
50
500
5000
FEs


ts0r0f/symmetric/att48−3
Objective Value
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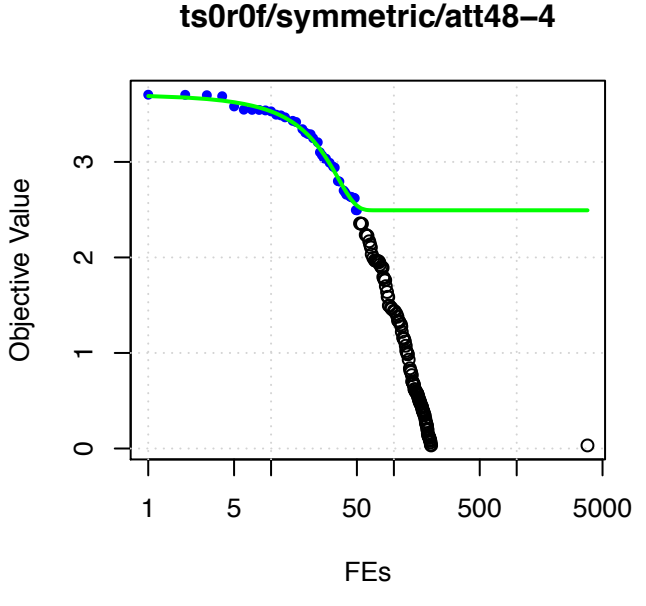
1
2
3
4
1
5
50
500
5000
FEs


ts0r0f/symmetric/att48−4
Objective Value
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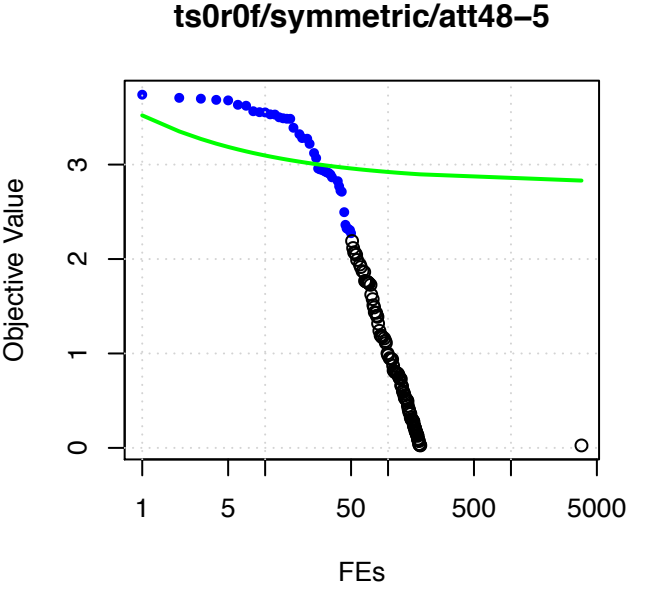
2
3
1
5
50
500
5000
FEs


ts0r0f/symmetric/att48−5
Objective Value
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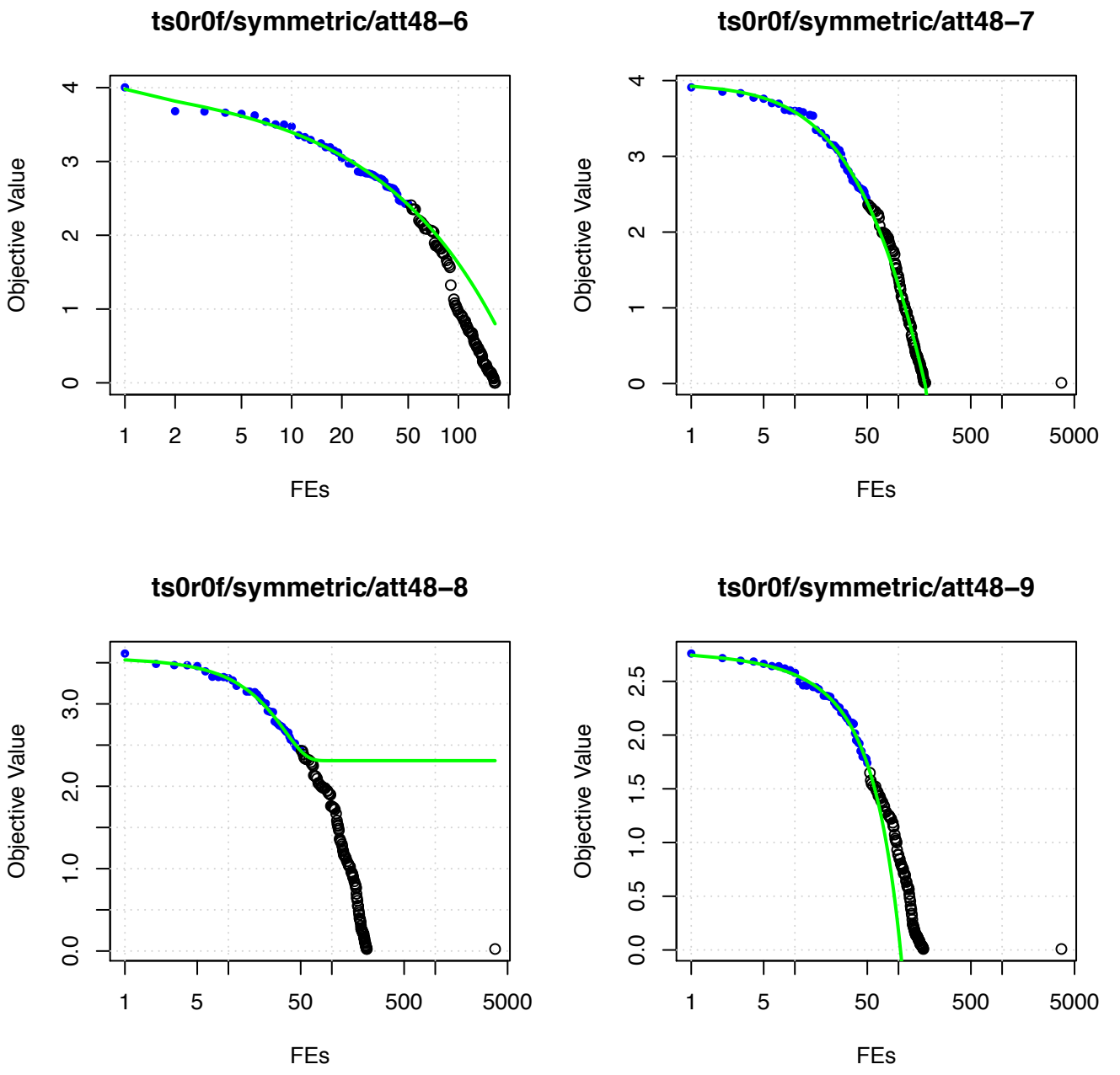
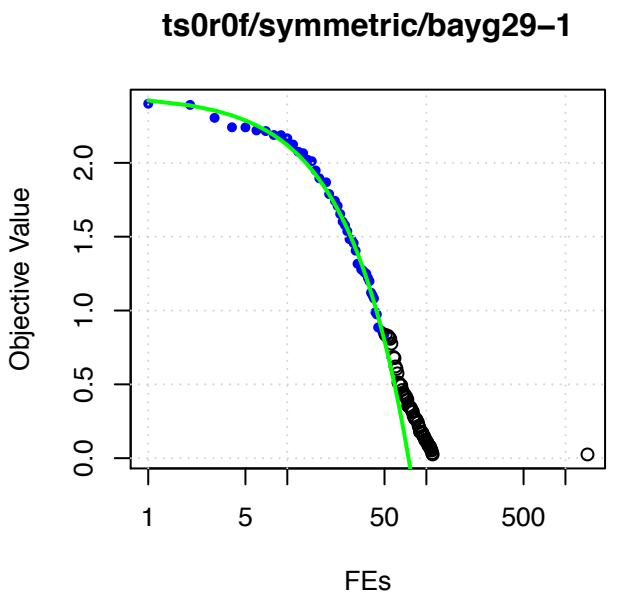
2
3
1
5
50
500
5000
FEs


ts0r0f/symmetric/att48−6
Objective Value
FEs
ts0r0f/symmetric/att48−7
Objective Value
FEs
ts0r0f/symmetric/att48−8
Objective Value
FEs
ts0r0f/symmetric/att48−9
Objective Value
FEs


ts0r0f/symmetric/bayg29−1
Objective Value
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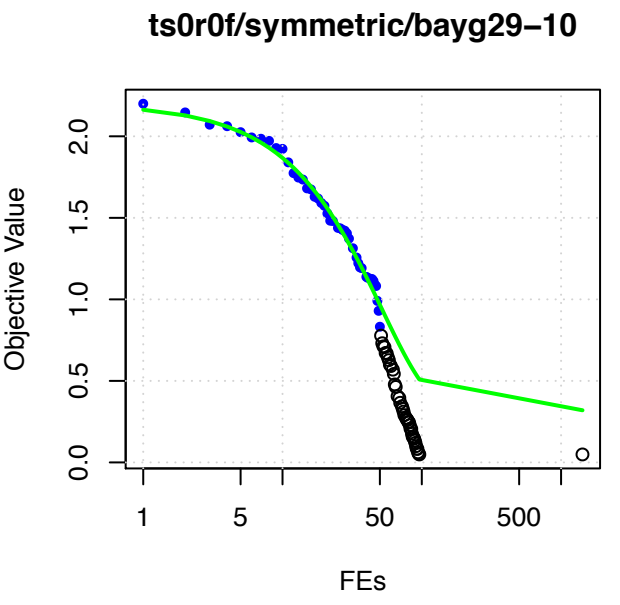
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/bayg29−10
Objective Value
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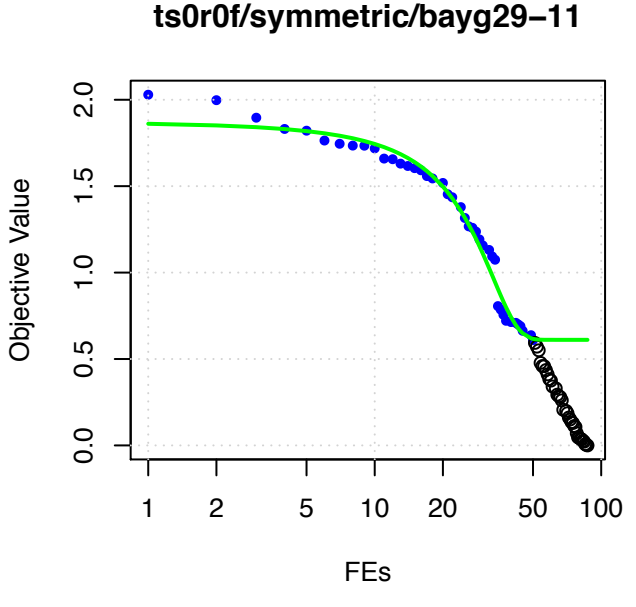
1.0
1.5
2.0
1
5
50
500
FEs


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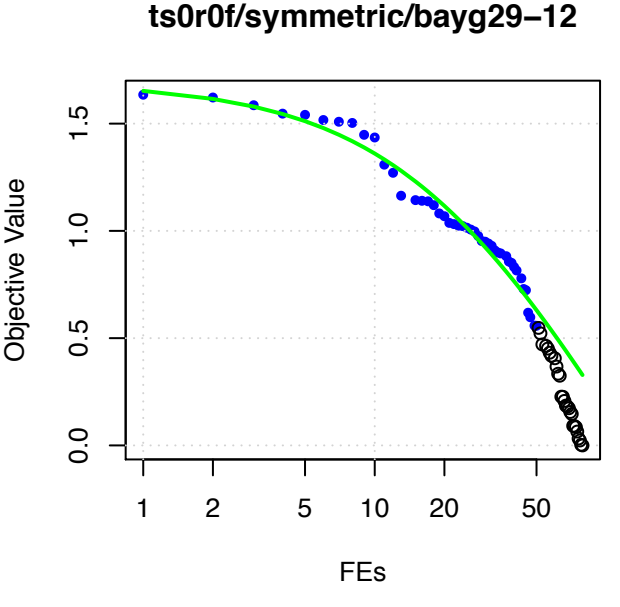
1.0
1.5
2.0
1
2
5
10
20
50
100
FEs


ts0r0f/symmetric/bayg29−12
Objective Value
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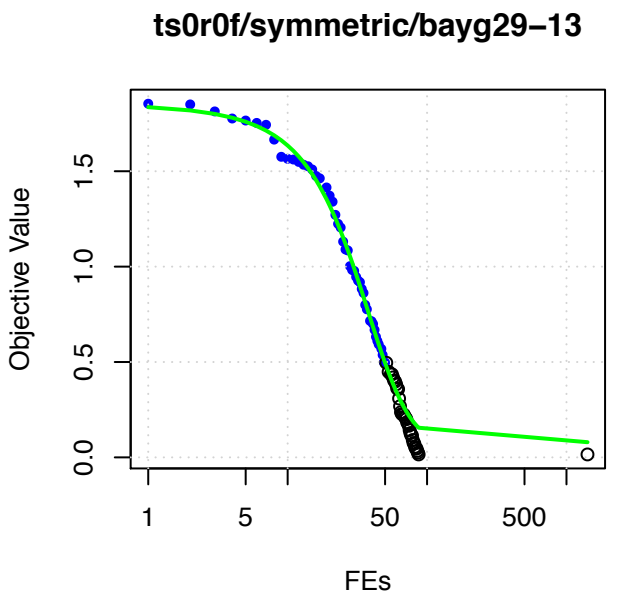
1.0
1.5
1
2
5
10
20
50
FEs


ts0r0f/symmetric/bayg29−13
Objective Value
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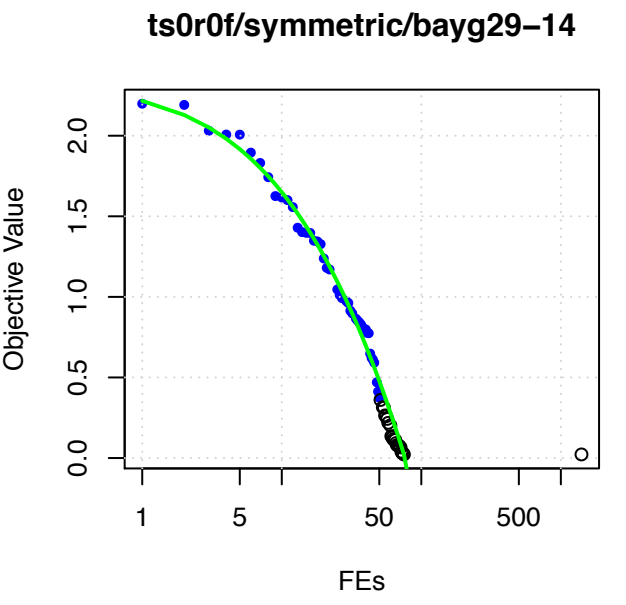
1.0
1.5
1
5
50
500
FEs


ts0r0f/symmetric/bayg29−14
Objective Value
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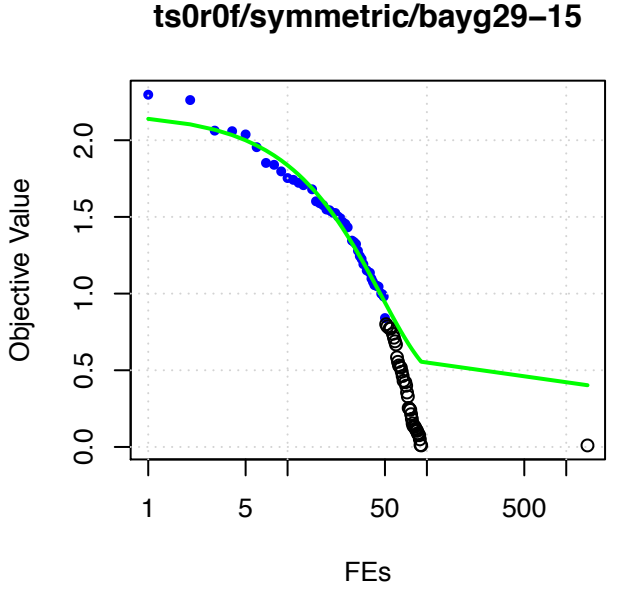
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/bayg29−15
Objective Value
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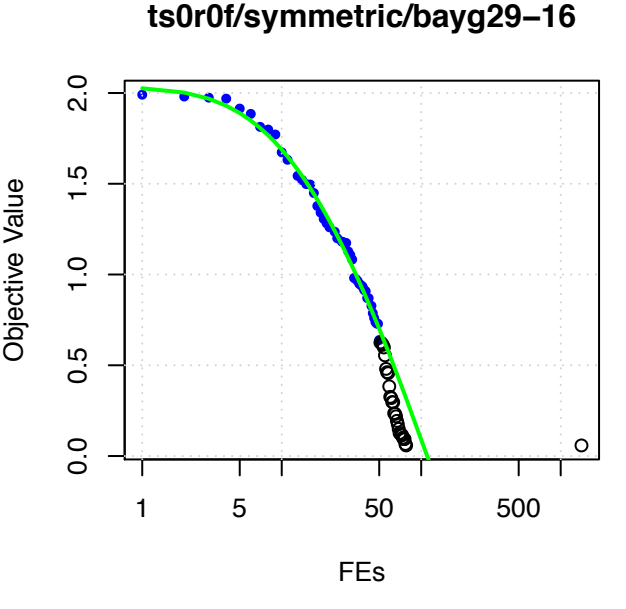
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/bayg29−16
Objective Value
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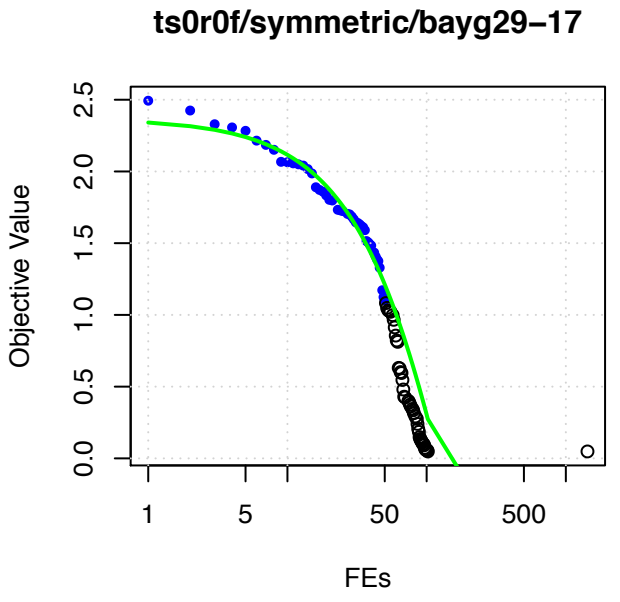
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/bayg29−17
Objective Value
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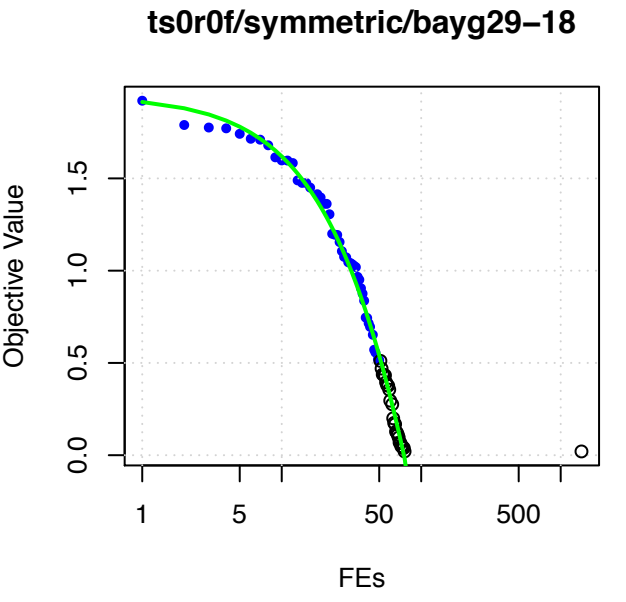
0.5
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts0r0f/symmetric/bayg29−18
Objective Value
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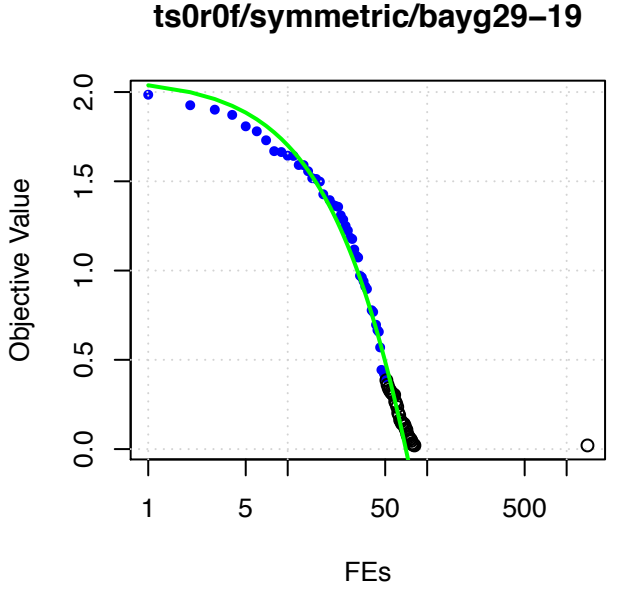
0.5
1.0
1.5
1
5
50
500
FEs


ts0r0f/symmetric/bayg29−19
Objective Value
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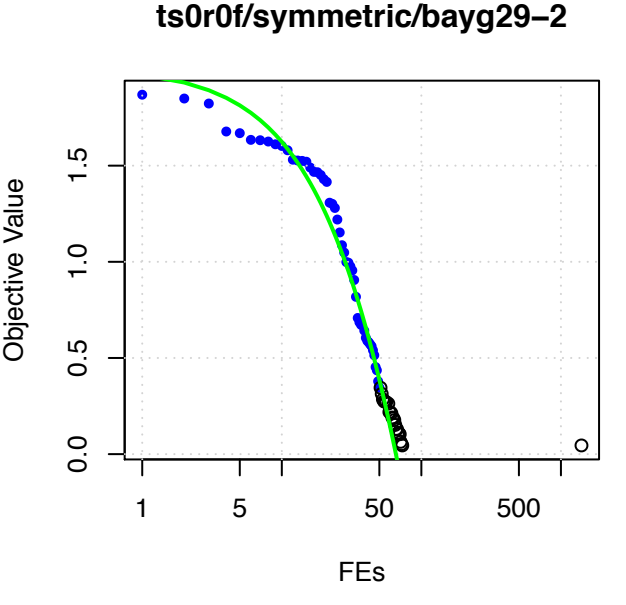
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/bayg29−2
Objective Value
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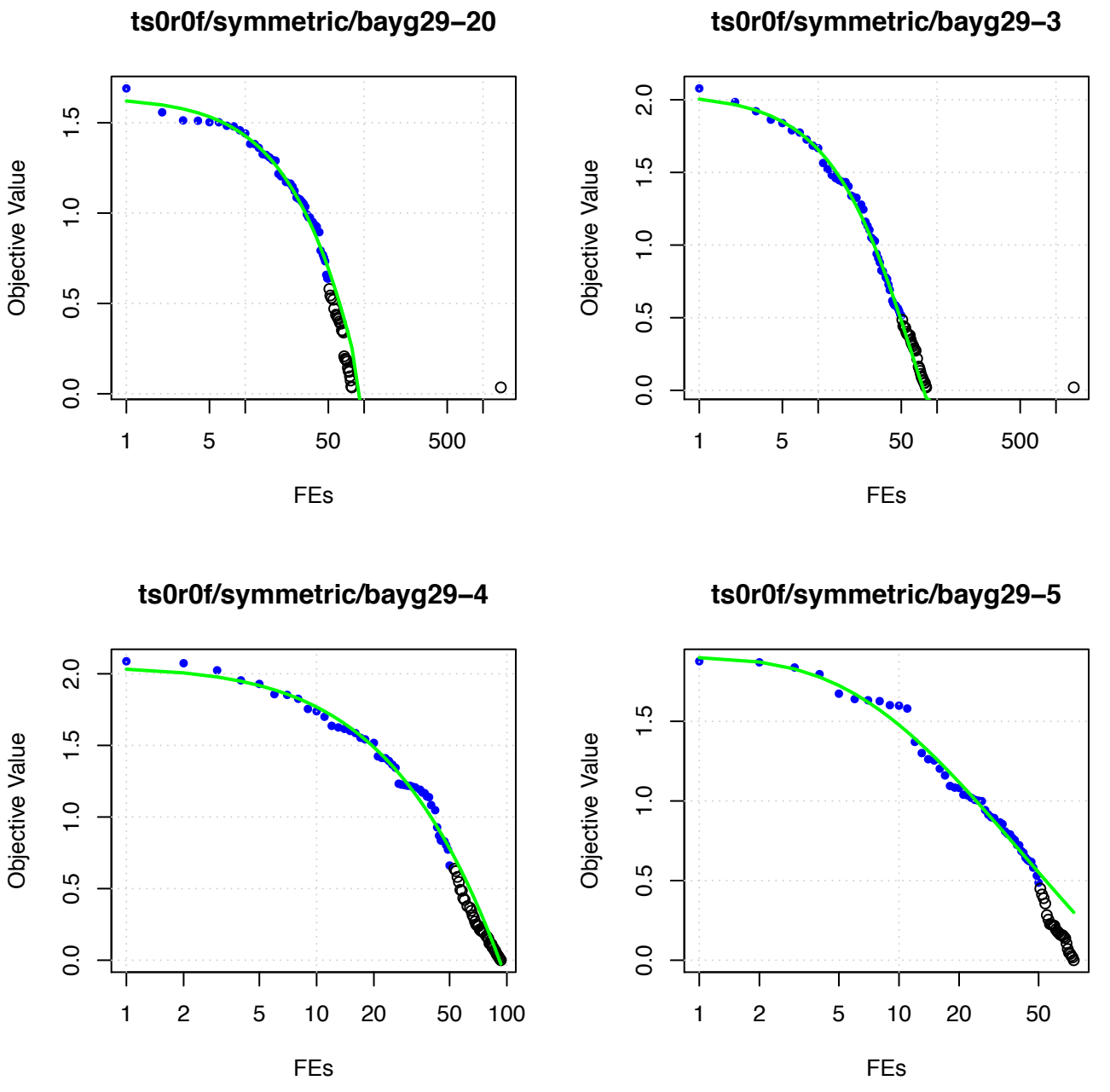
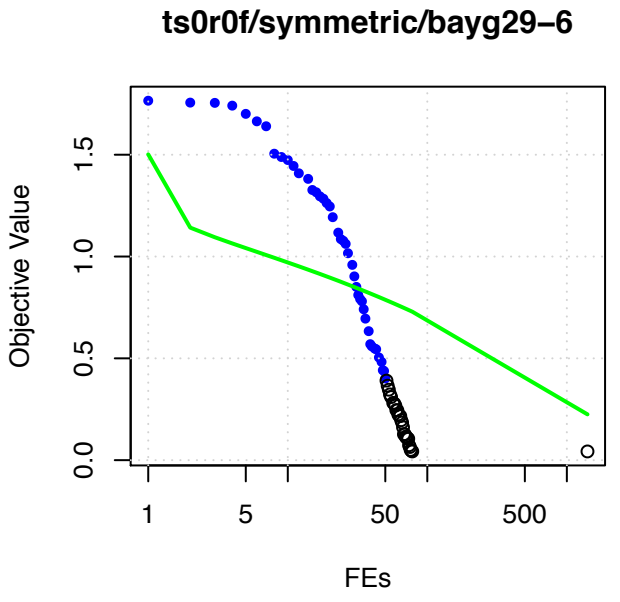
1.0
1.5
1
5
50
500
FEs


ts0r0f/symmetric/bayg29−20
Objective Value
0.0
0.5
1.0
1.5
1
5
50
500
FEs
ts0r0f/symmetric/bayg29−3
Objective Value
0.0
0.5
1.0
1.5
2.0
1
5
50
500
FEs
ts0r0f/symmetric/bayg29−4
Objective Value
0.0
0.5
1.0
1.5
2.0
1
2
5
10
20
50
100
FEs
ts0r0f/symmetric/bayg29−5
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts0r0f/symmetric/bayg29−6
Objective Value
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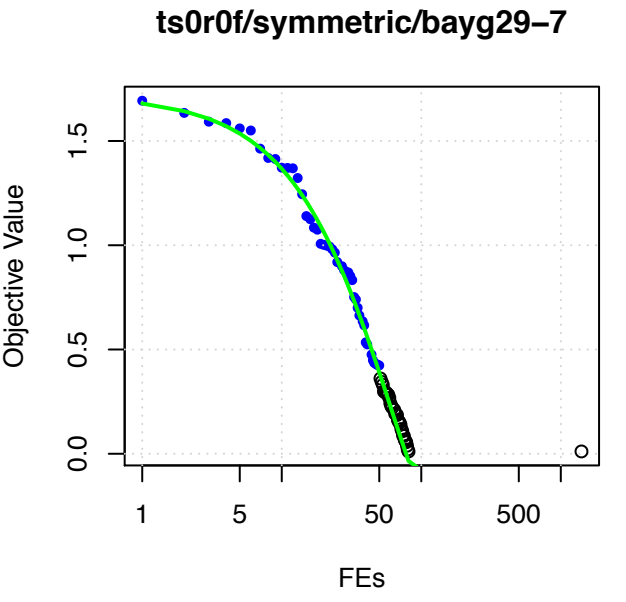
1.0
1.5
1
5
50
500
FEs


ts0r0f/symmetric/bayg29−7
Objective Value
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1.5
1
5
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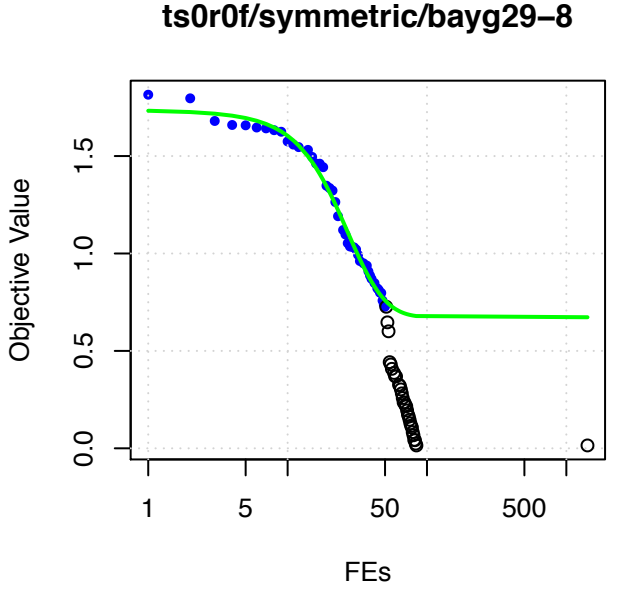
500
FEs


ts0r0f/symmetric/bayg29−8
Objective Value
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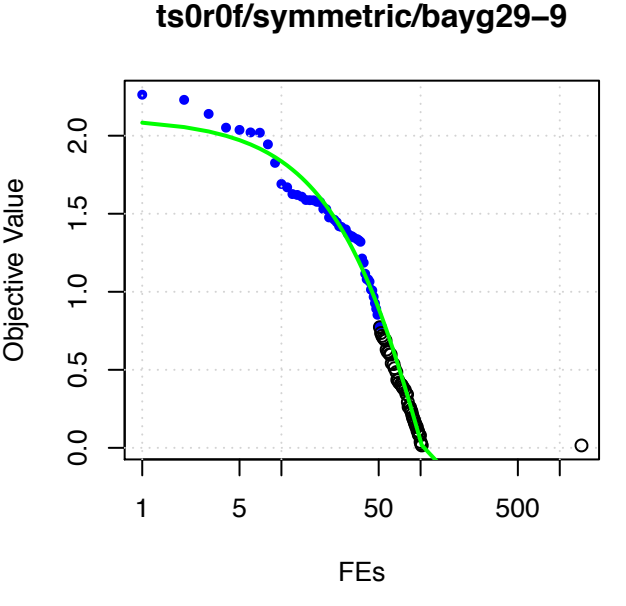
1.0
1.5
1
5
50
500
FEs


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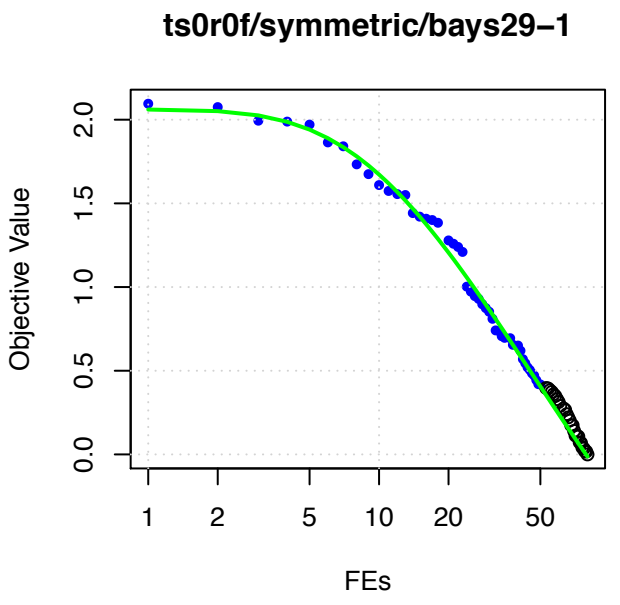
0.5
1.0
1.5
2.0
1
5
50
500
FEs


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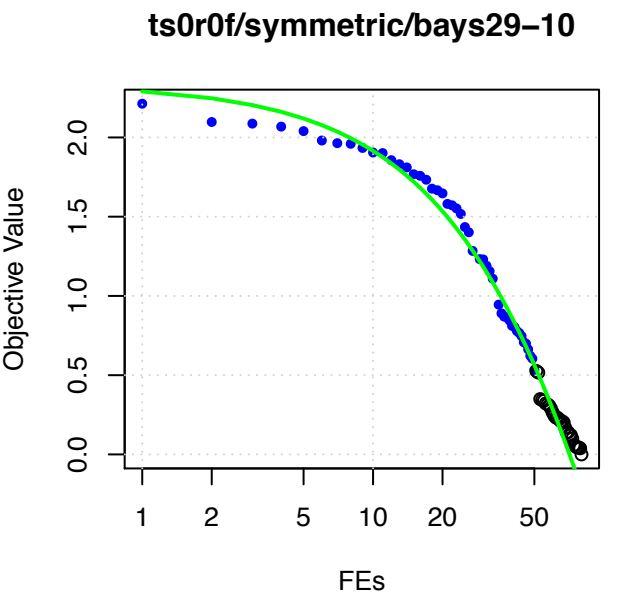
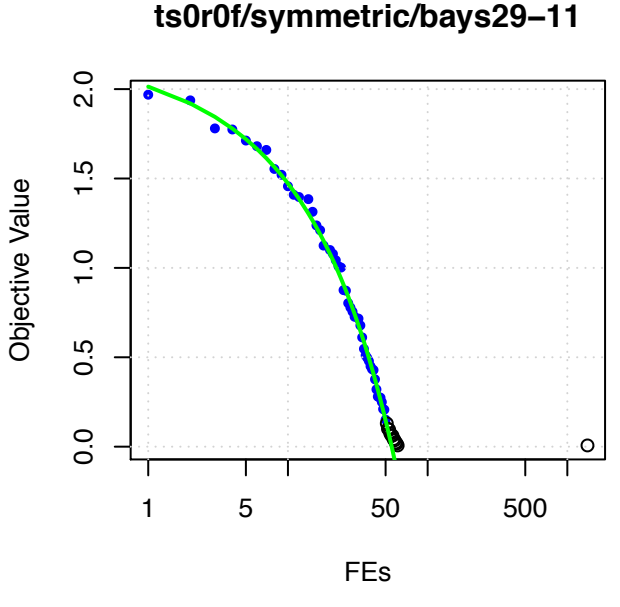
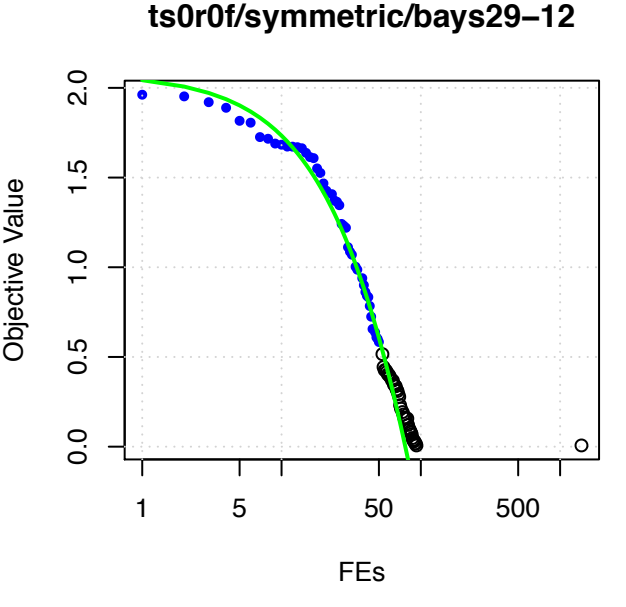
0.5
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts0r0f/symmetric/bays29−10
Objective Value
0.0
0.5
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts0r0f/symmetric/bays29−11
Objective Value
0.0
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/bays29−12
Objective Value
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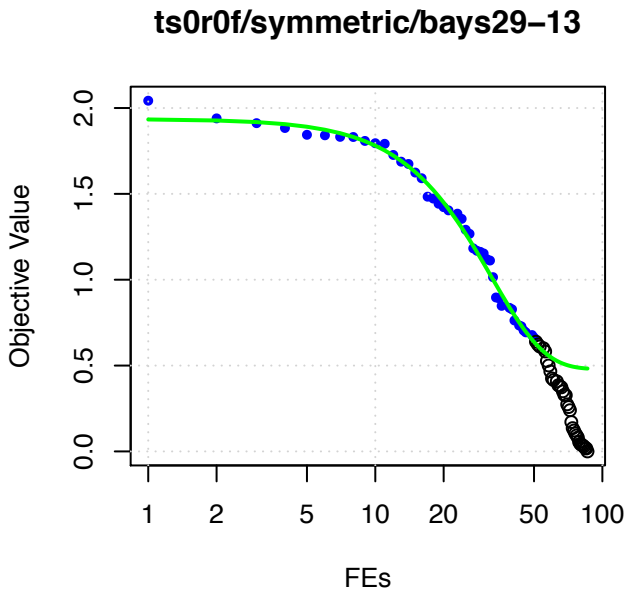
0.5
1.0
1.5
2.0
1
5
50
500
FEs


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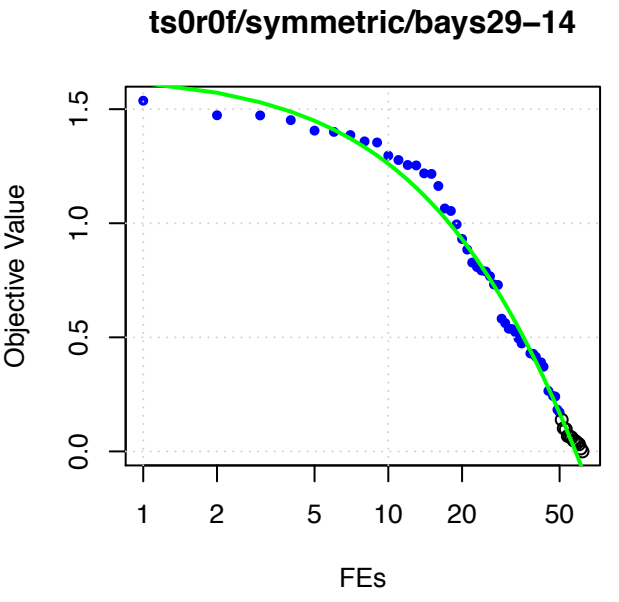
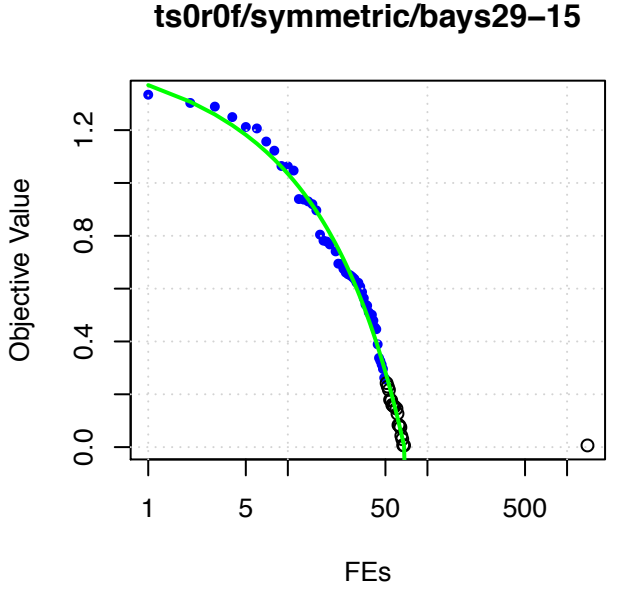
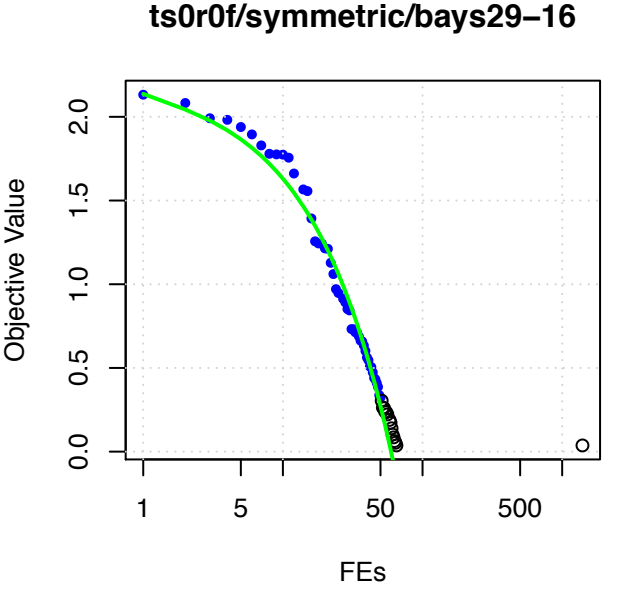
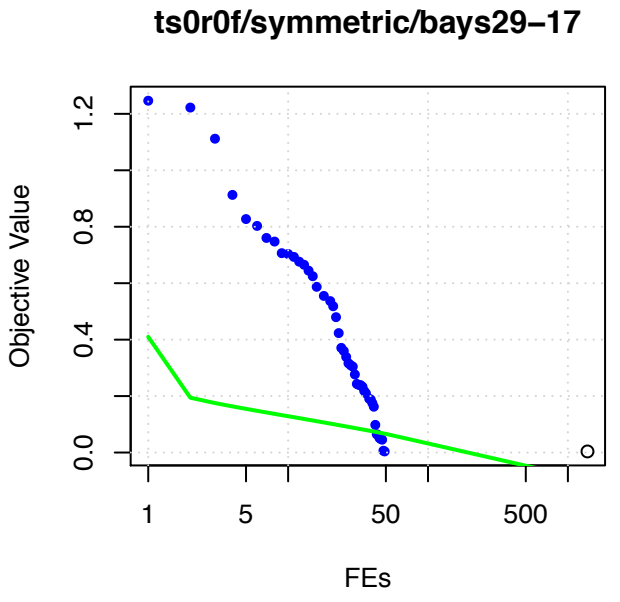
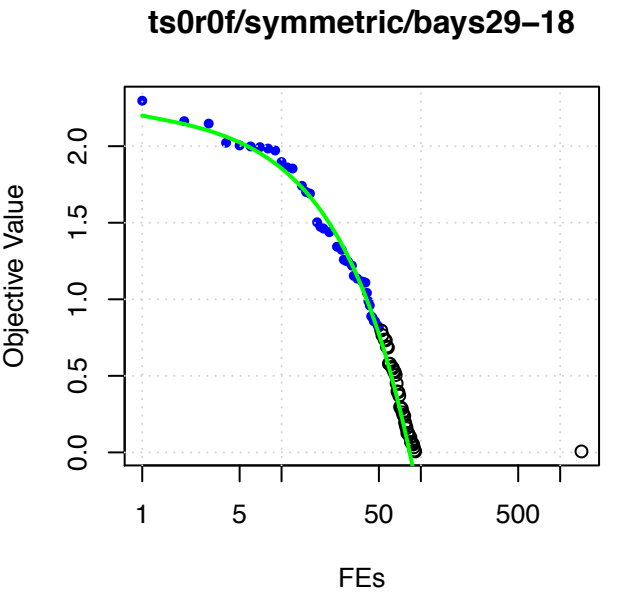
0.5
1.0
1.5
2.0
1
2
5
10
20
50
100
FEs

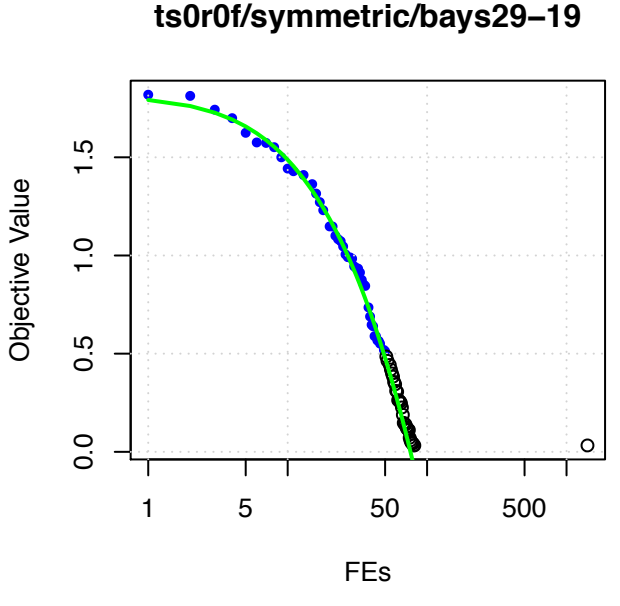

ts0r0f/symmetric/bays29−14
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
FEs

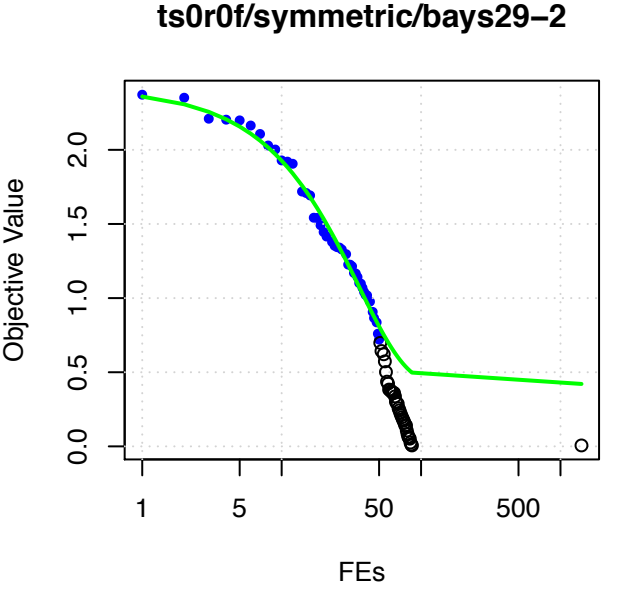

ts0r0f/symmetric/bays29−15
Objective Value
0.0
0.4
0.8
1.2
1
5
50
500
FEs

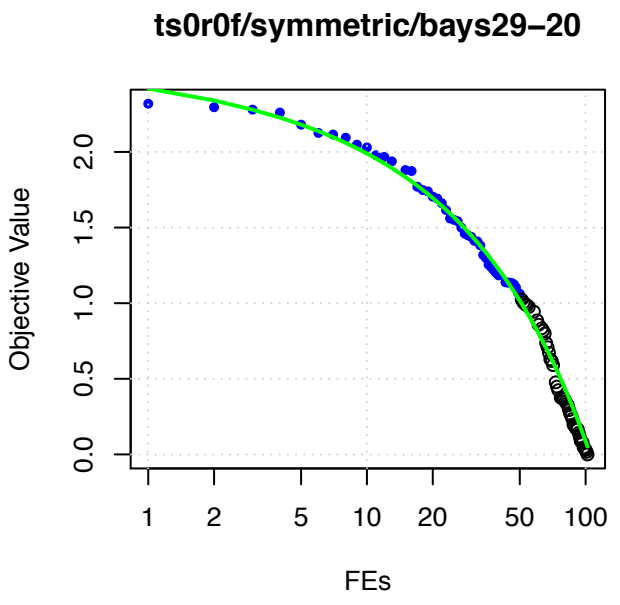

ts0r0f/symmetric/bays29−16
Objective Value
0.0
0.5
1.0
1.5
2.0
1
5
50
500
FEs

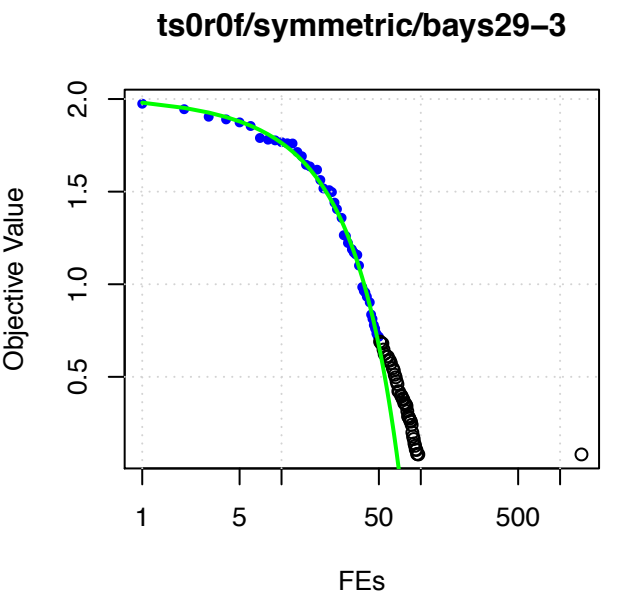

ts0r0f/symmetric/bays29−17
Objective Value
0.0
0.4
0.8
1.2
1
5
50
500
FEs

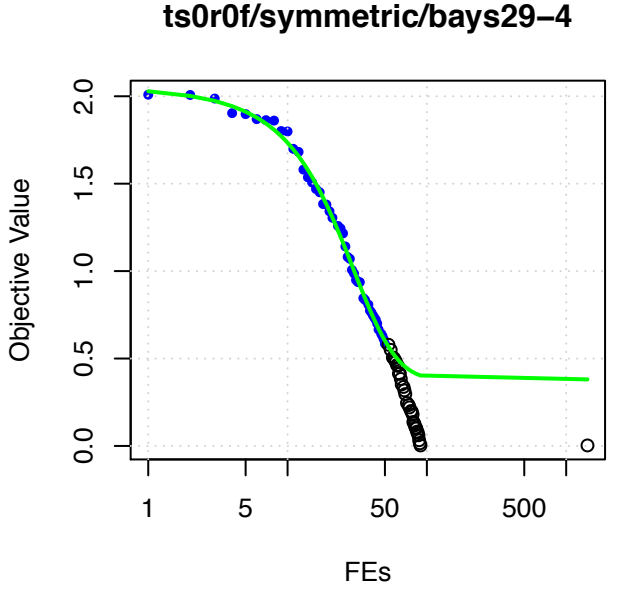

ts0r0f/symmetric/bays29−18
Objective Value
0.0
0.5
1.0
1.5
2.0
1
5
50
500
FEs

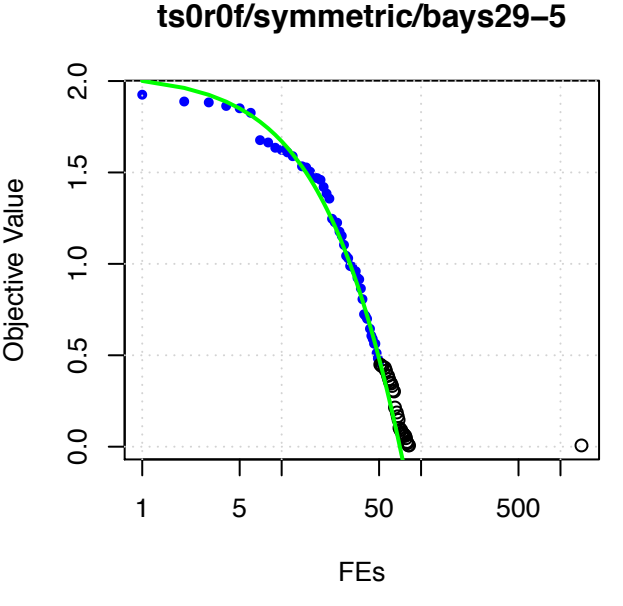

ts0r0f/symmetric/bays29−19
Objective Value
0.0
0.5
1.0
1.5
1
5
50
500
FEs

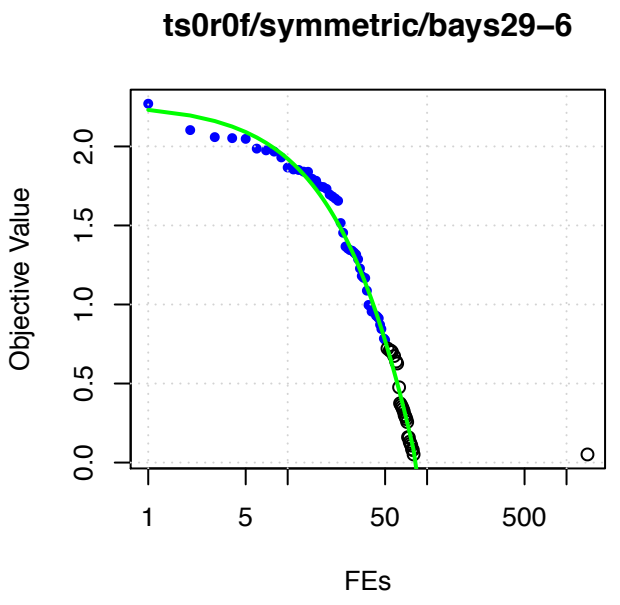

ts0r0f/symmetric/bays29−2
Objective Value
0.0
0.5
1.0
1.5
2.0
1
5
50
500
FEs

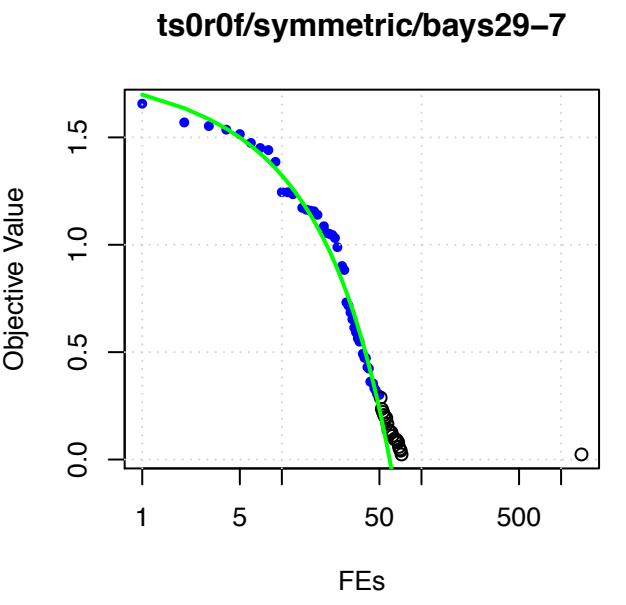

ts0r0f/symmetric/bays29−20
Objective Value
0.0
0.5
1.0
1.5
2.0
1
2
5
10
20
50
100
FEs


ts0r0f/symmetric/bays29−3
Objective Value
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/bays29−4
Objective Value
0.0
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/bays29−5
Objective Value
0.0
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/bays29−6
Objective Value
0.0
0.5
1.0
1.5
2.0
1
5
50
500
FEs


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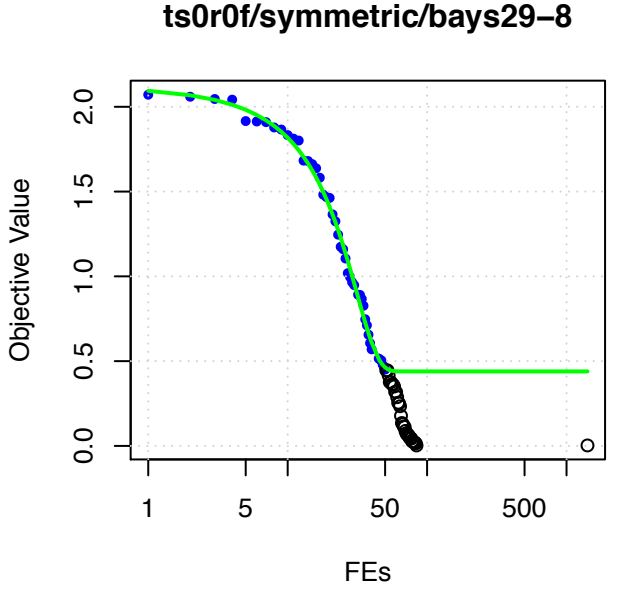
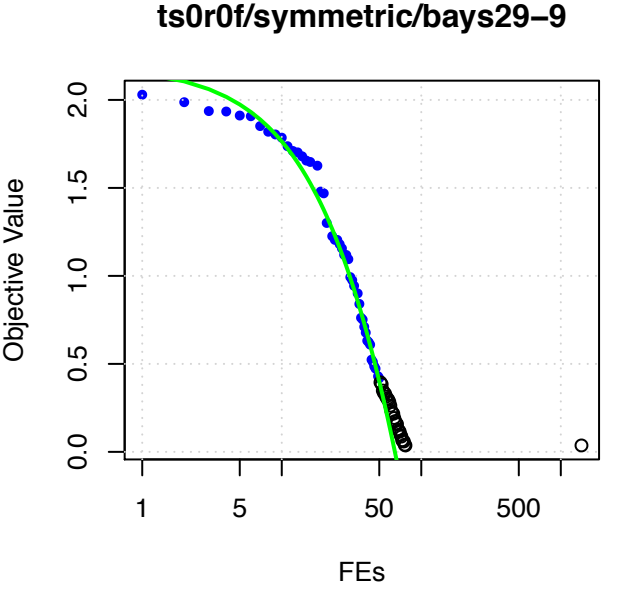
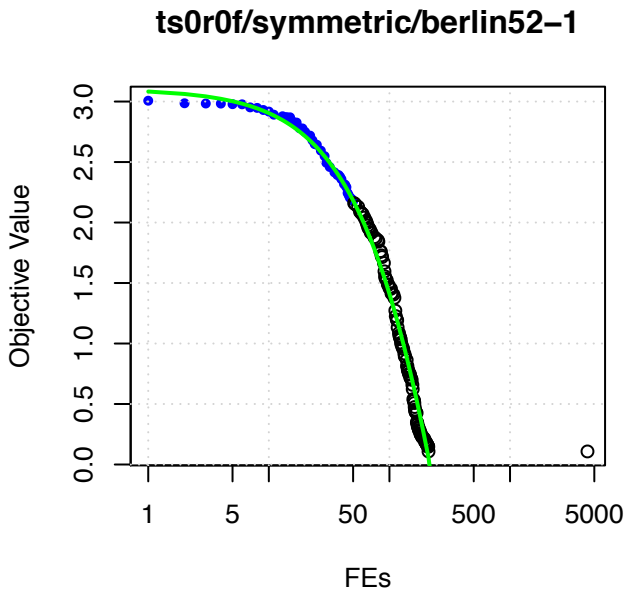
0.5
1.0
1.5
1
5
50
500
FEs


ts0r0f/symmetric/bays29−8
Objective Value
0.0
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/bays29−9
Objective Value
0.0
0.5
1.0
1.5
2.0
1
5
50
500
FEs


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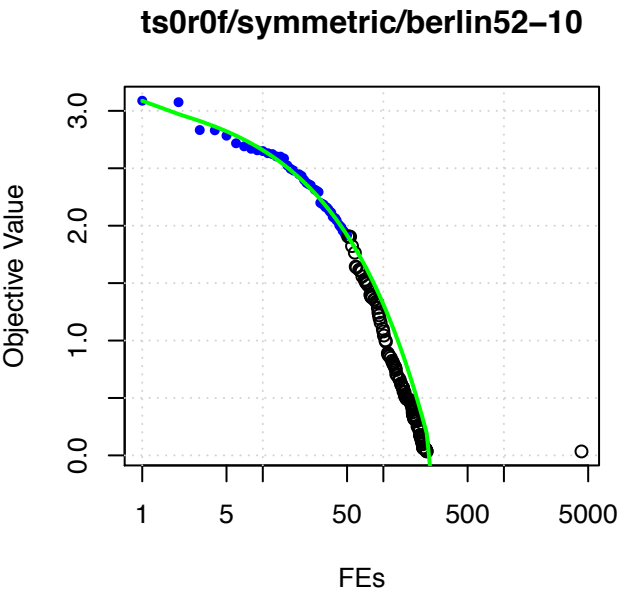
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/berlin52−10
Objective Value
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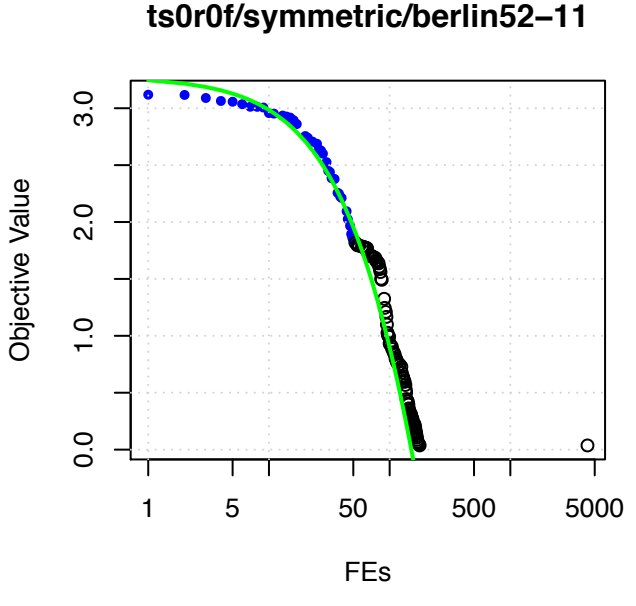
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/berlin52−11
Objective Value
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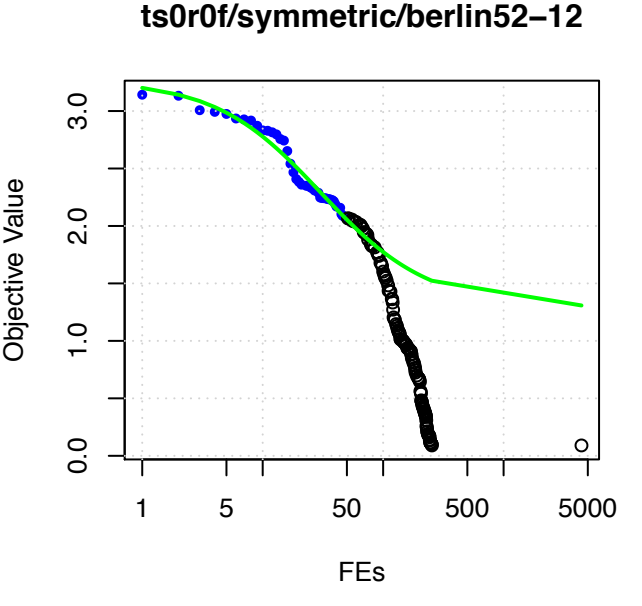
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/berlin52−12
Objective Value
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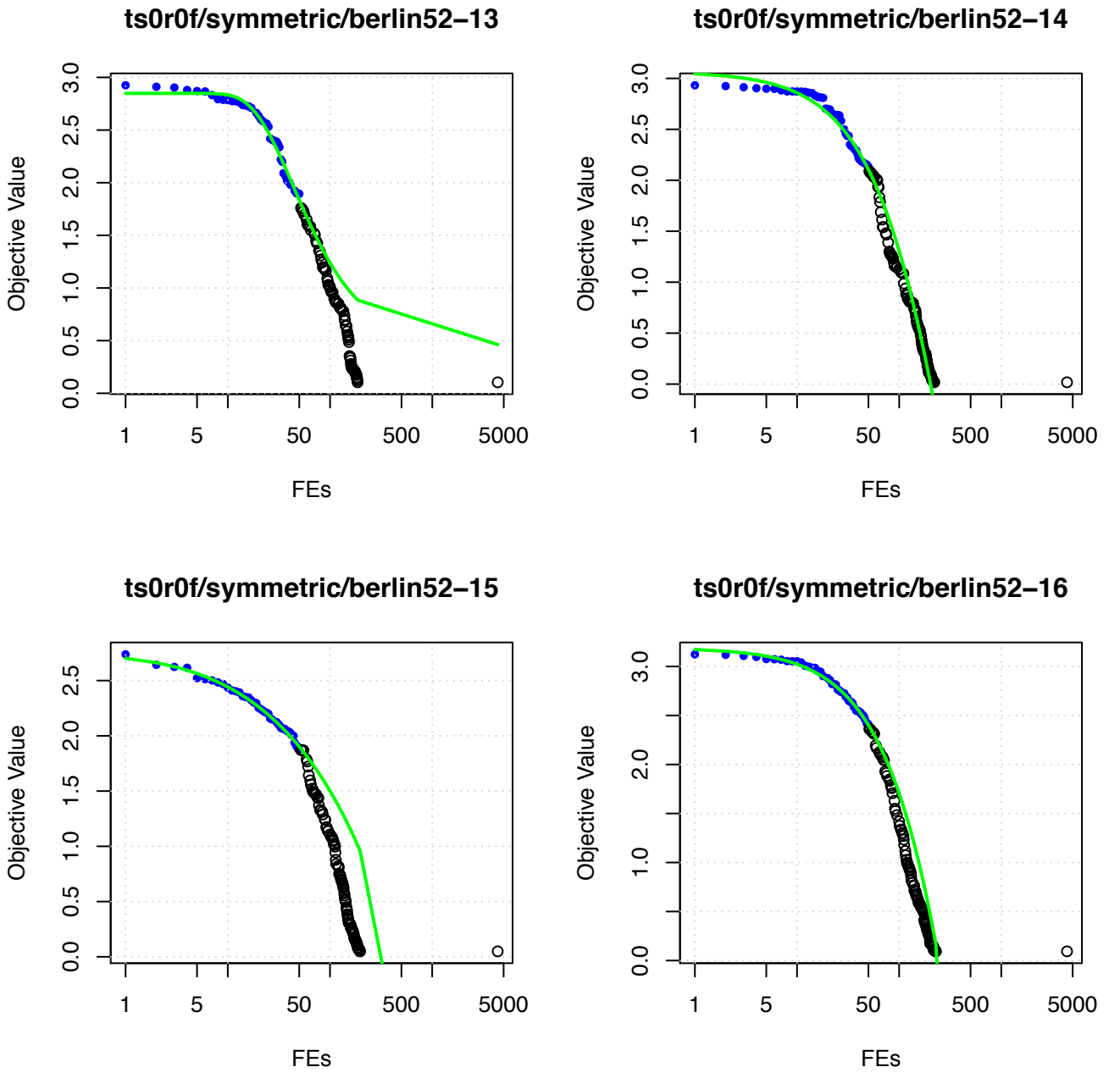
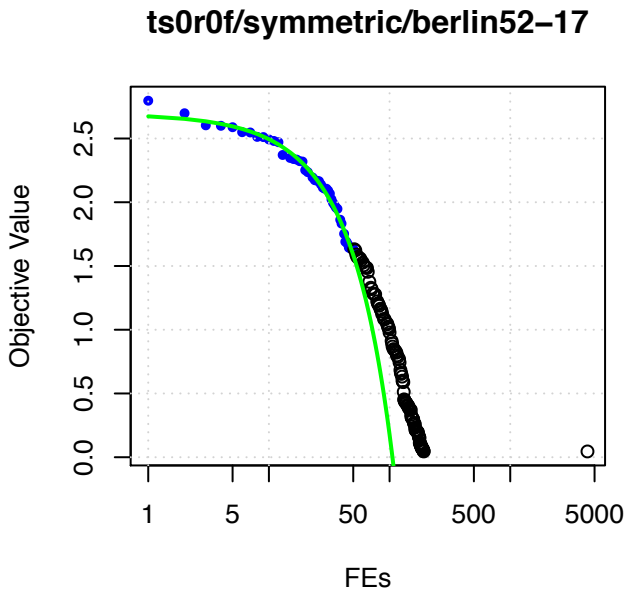
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/berlin52−13
ts0r0f/symmetric/berlin52−14
ts0r0f/symmetric/berlin52−15
ts0r0f/symmetric/berlin52−16
Objective Value
FEs
0.0
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000


ts0r0f/symmetric/berlin52−17
Objective Value
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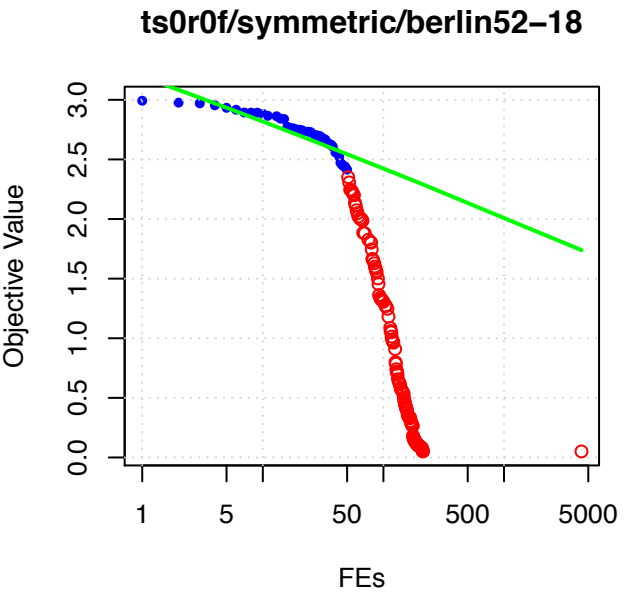
0.5
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


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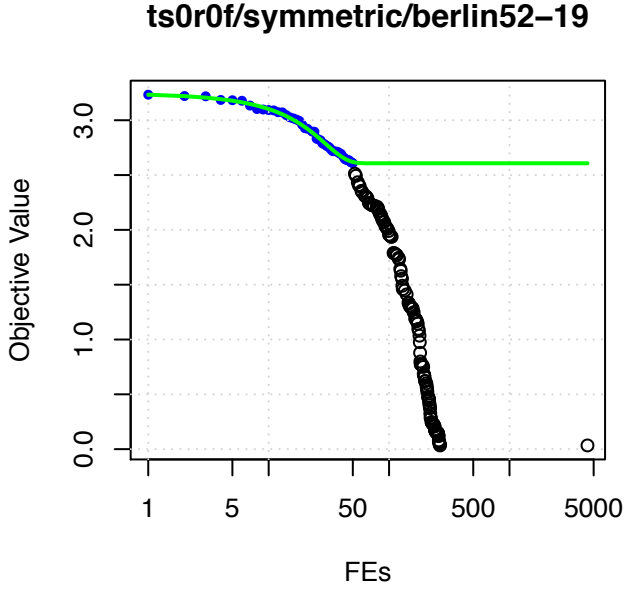
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/berlin52−19
Objective Value
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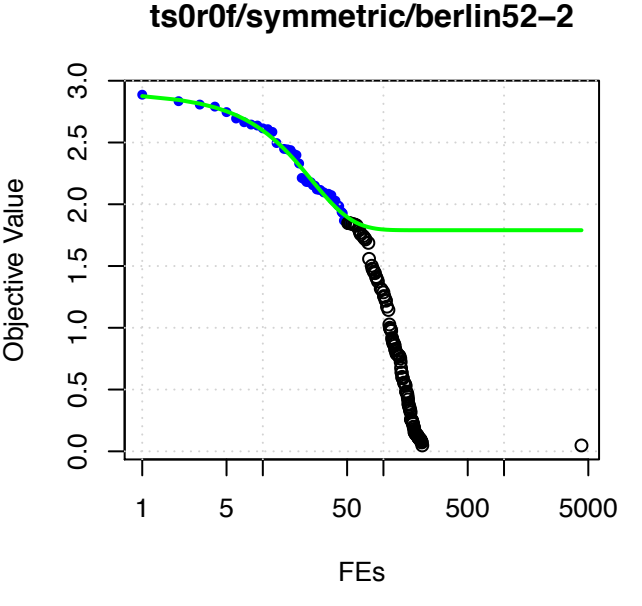
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/berlin52−2
Objective Value
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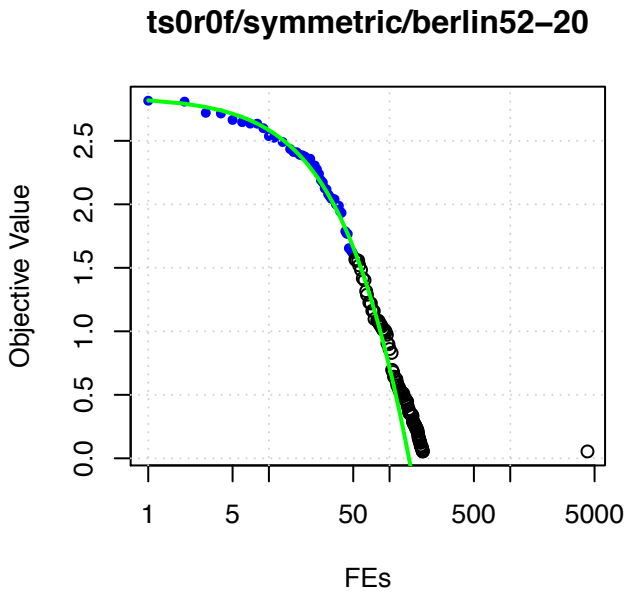
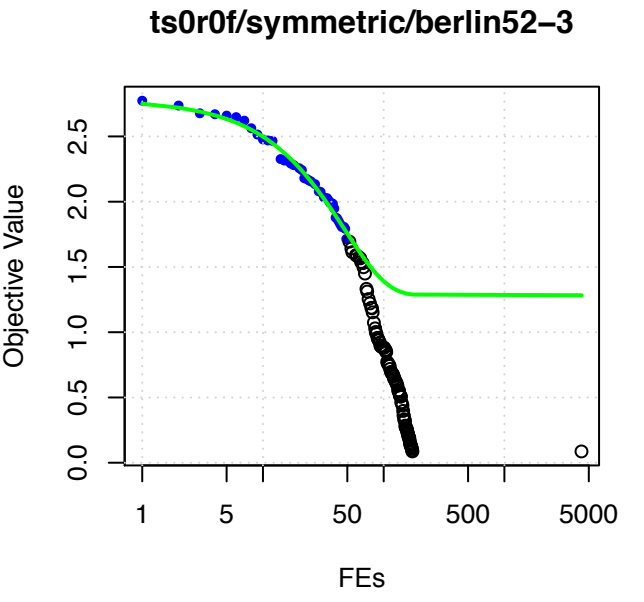
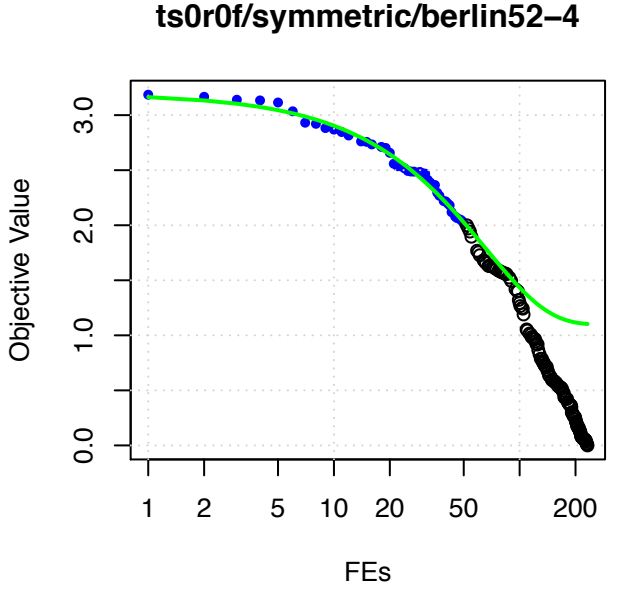
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/berlin52−20
Objective Value
0.0
0.5
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0f/symmetric/berlin52−3
Objective Value
0.0
0.5
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0f/symmetric/berlin52−4
Objective Value
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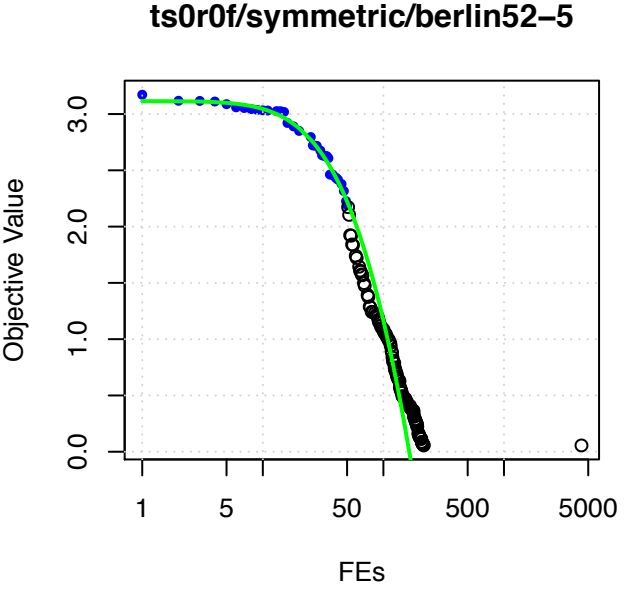
1.0
2.0
3.0
1
2
5
10
20
50
200
FEs


ts0r0f/symmetric/berlin52−5
Objective Value
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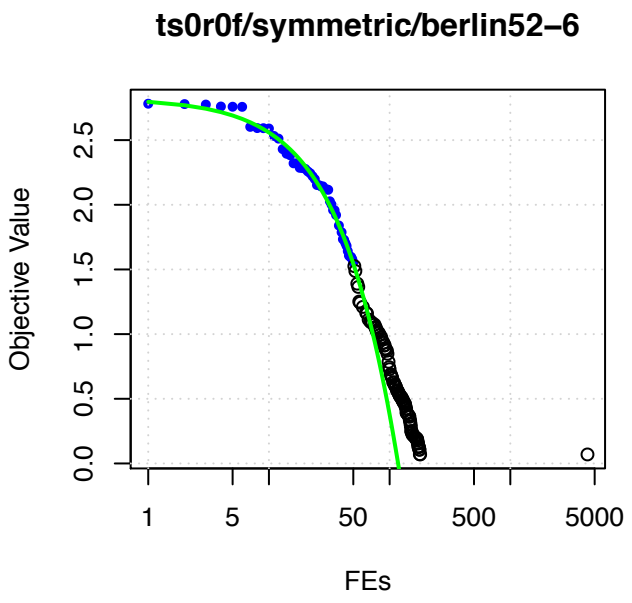
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/berlin52−6
Objective Value
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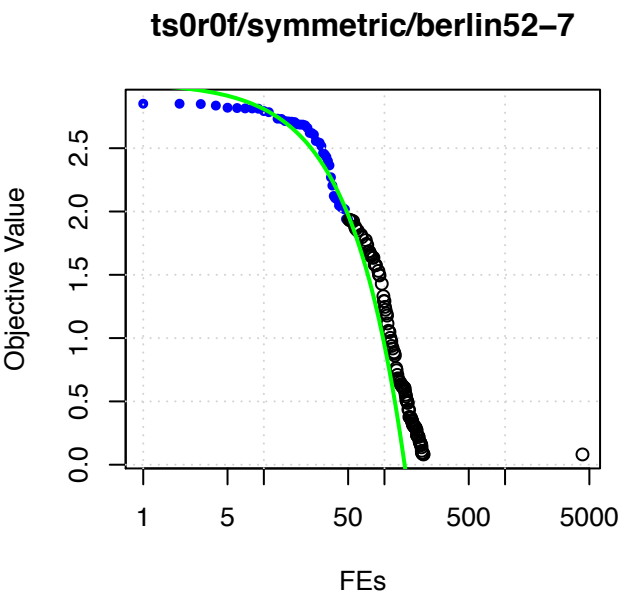
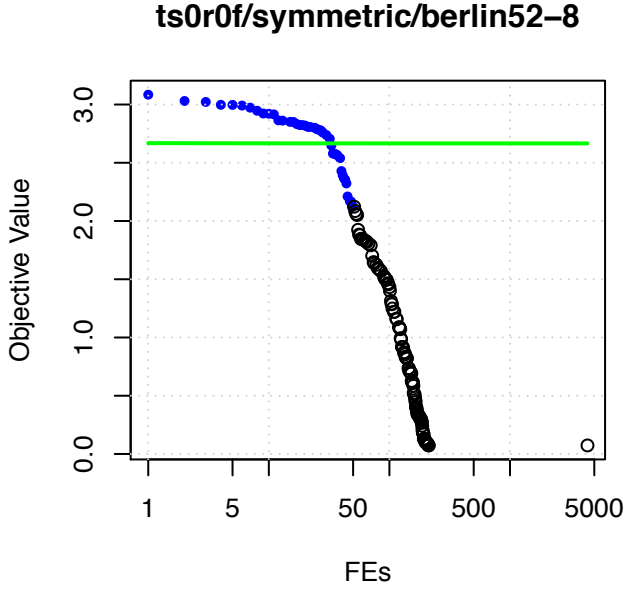
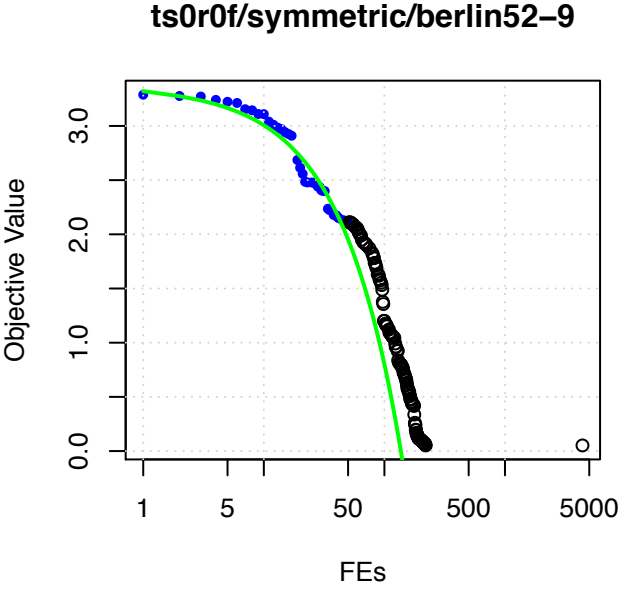
0.5
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0f/symmetric/berlin52−7
Objective Value
0.0
0.5
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0f/symmetric/berlin52−8
Objective Value
0.0
1.0
2.0
3.0
1
5
50
500
5000
FEs


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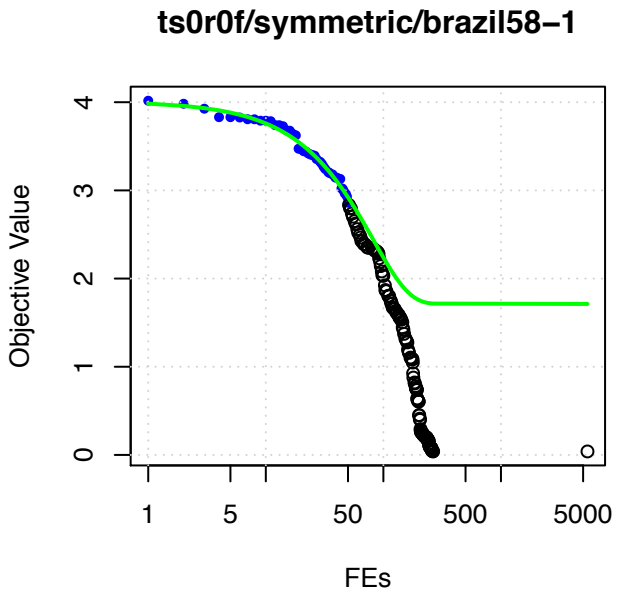
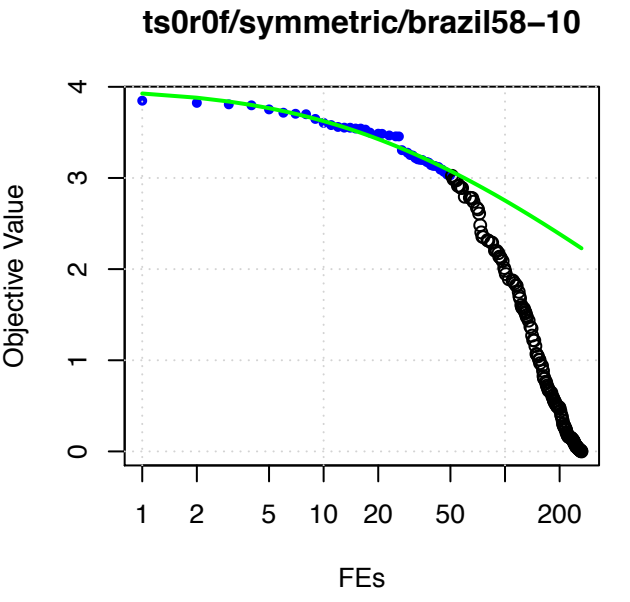
1.0
2.0
3.0
1
5
50
500
5000
FEs


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


ts0r0f/symmetric/brazil58−10
Objective Value
0
1
2
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2
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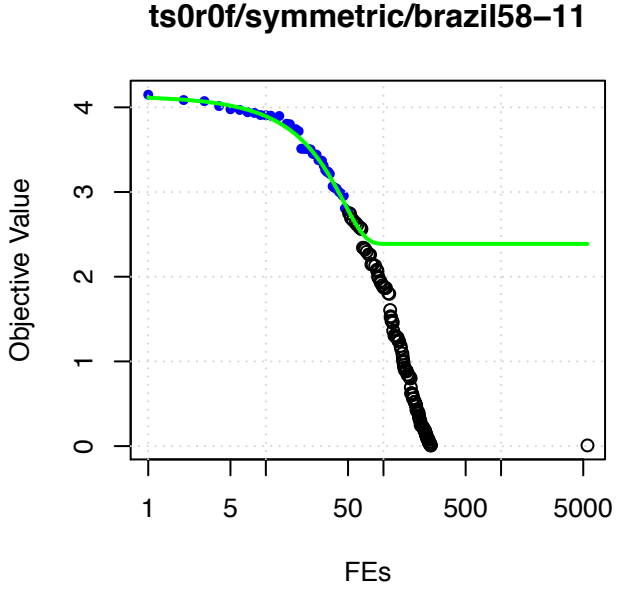
FEs


ts0r0f/symmetric/brazil58−11
Objective Value
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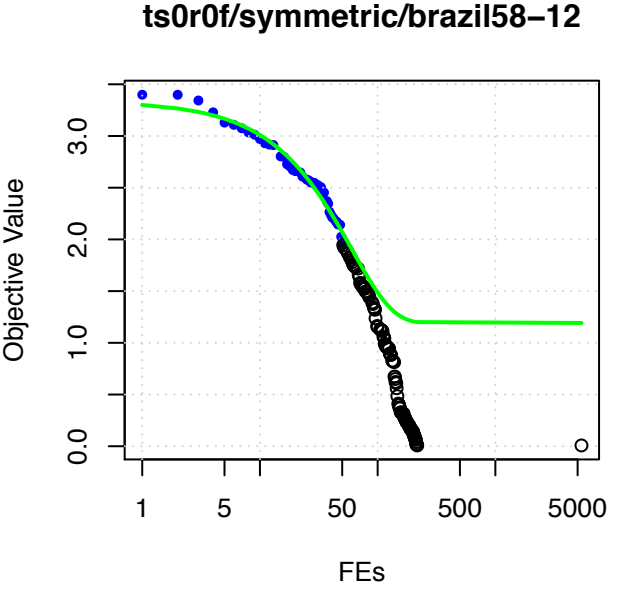
FEs


ts0r0f/symmetric/brazil58−12
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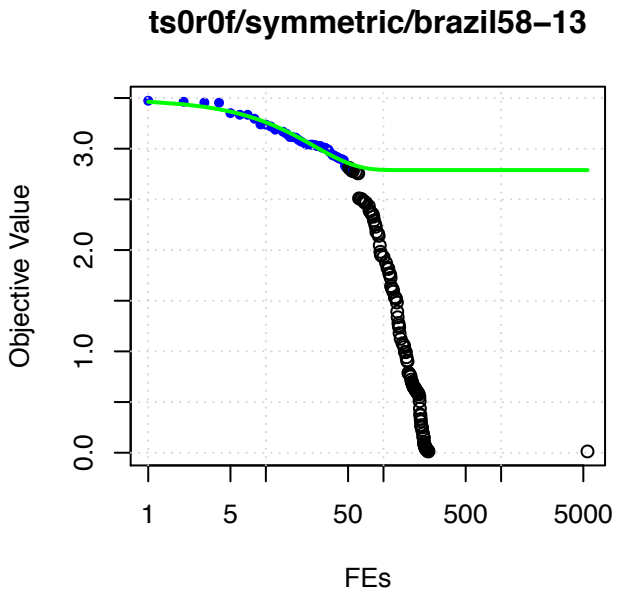
ts0r0f/symmetric/brazil58−13
Objective Value
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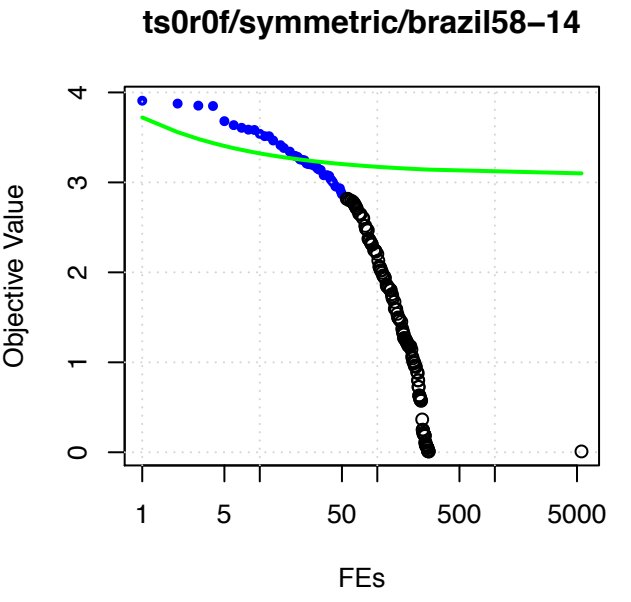
FEs


ts0r0f/symmetric/brazil58−14
Objective Value
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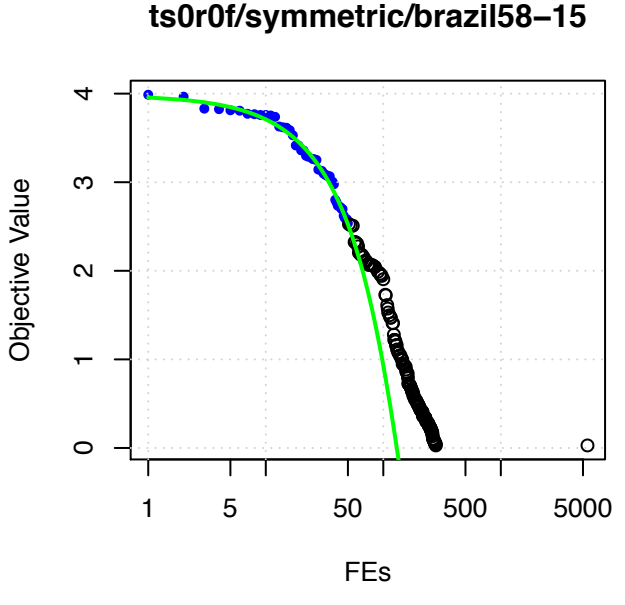
FEs


ts0r0f/symmetric/brazil58−15
Objective Value
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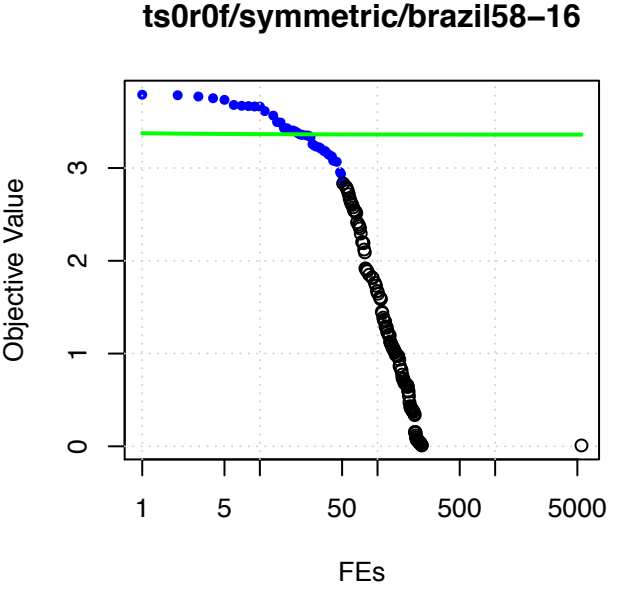
FEs


ts0r0f/symmetric/brazil58−16
Objective Value
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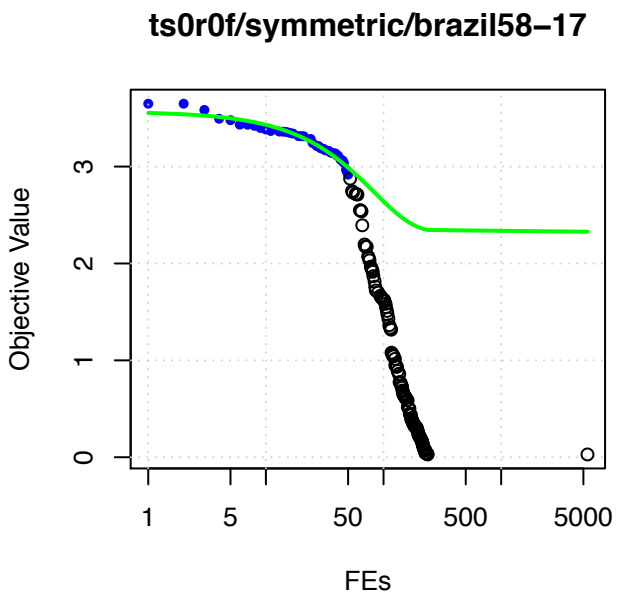
FEs


ts0r0f/symmetric/brazil58−17
Objective Value
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3
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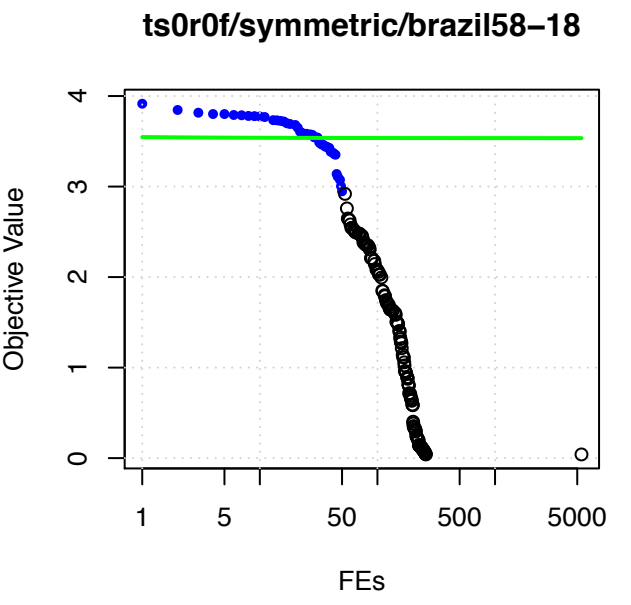
5000
FEs


ts0r0f/symmetric/brazil58−18
Objective Value
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3
4
1
5
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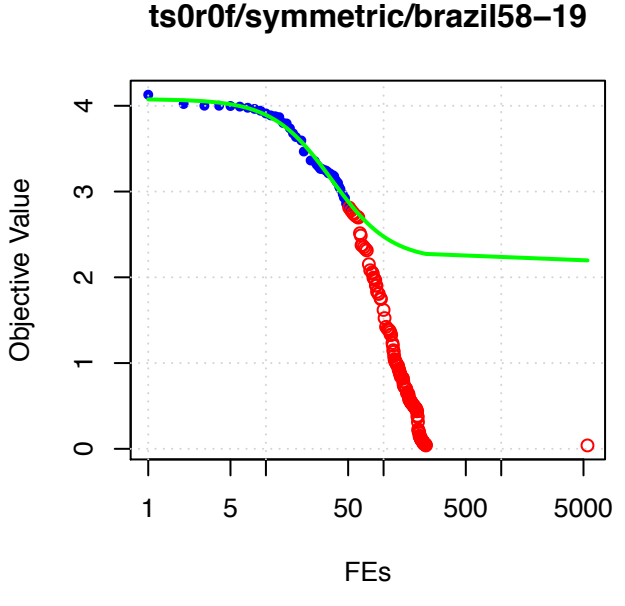
500
5000
FEs


ts0r0f/symmetric/brazil58−19
Objective Value
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3
4
1
5
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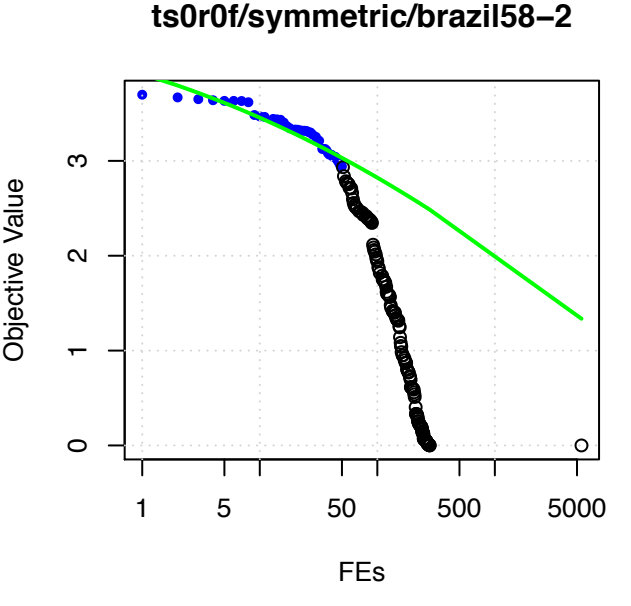
500
5000
FEs


ts0r0f/symmetric/brazil58−2
Objective Value
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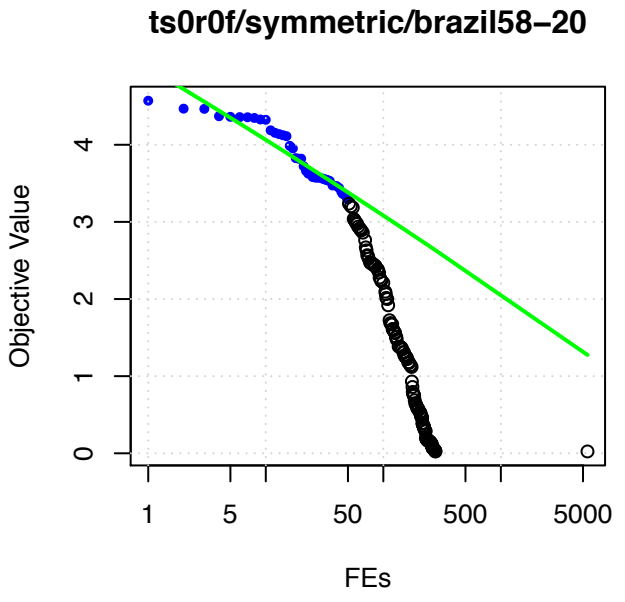
5000
FEs


ts0r0f/symmetric/brazil58−20
Objective Value
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3
4
1
5
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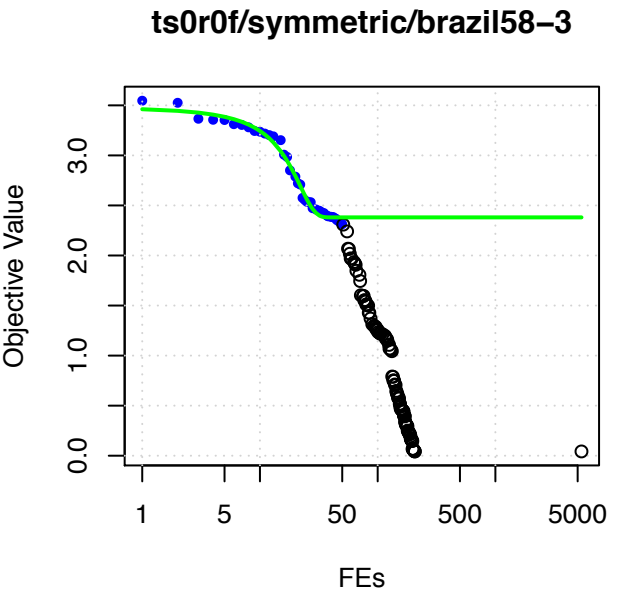
500
5000
FEs


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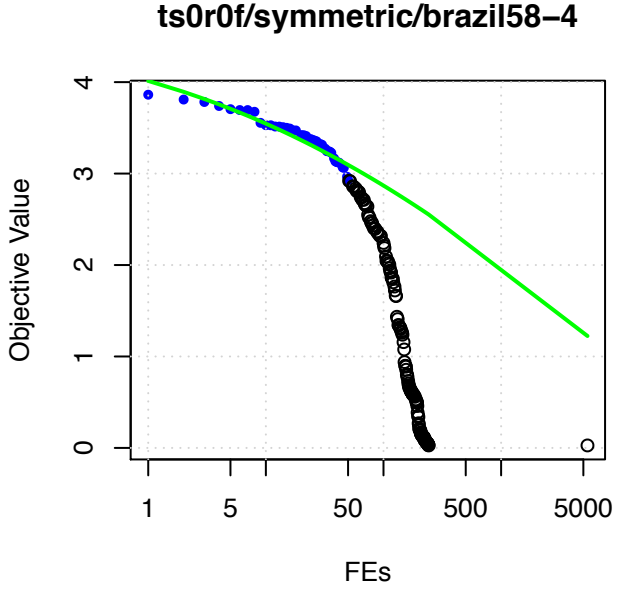
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/brazil58−4
Objective Value
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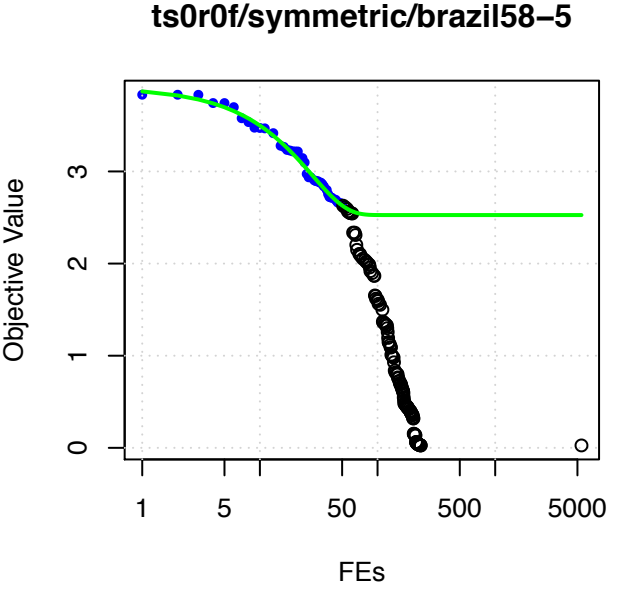
1
2
3
4
1
5
50
500
5000
FEs


ts0r0f/symmetric/brazil58−5
Objective Value
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2
3
1
5
50
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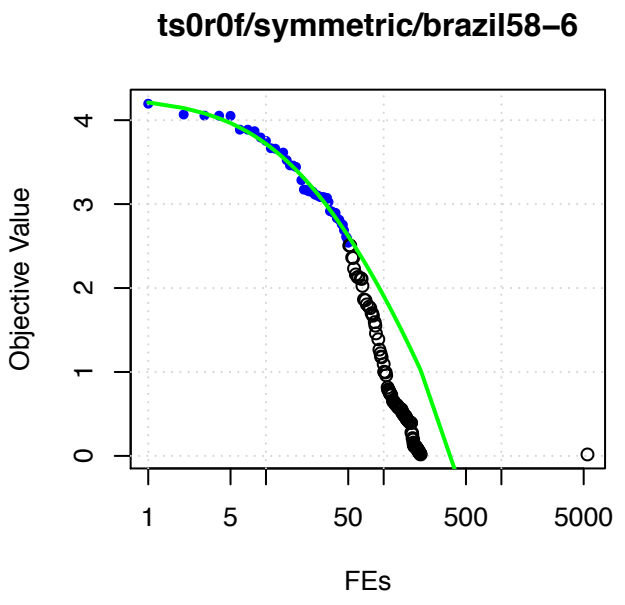
5000
FEs


ts0r0f/symmetric/brazil58−6
Objective Value
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3
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5
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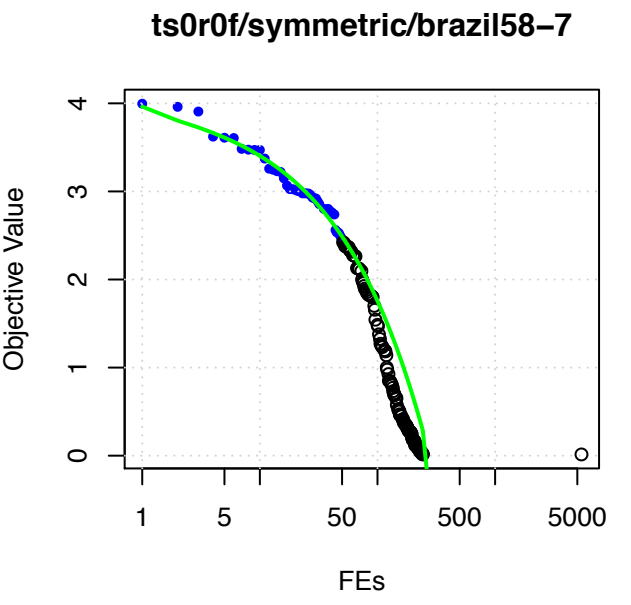
500
5000
FEs


ts0r0f/symmetric/brazil58−7
Objective Value
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3
4
1
5
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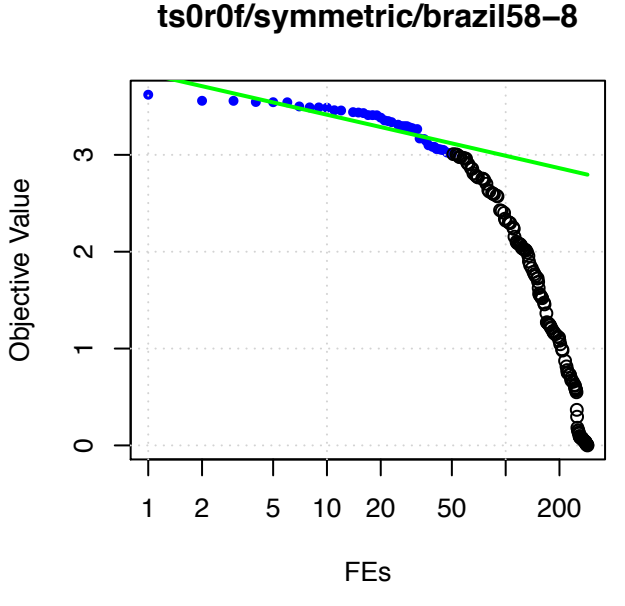
500
5000
FEs


ts0r0f/symmetric/brazil58−8
Objective Value
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2
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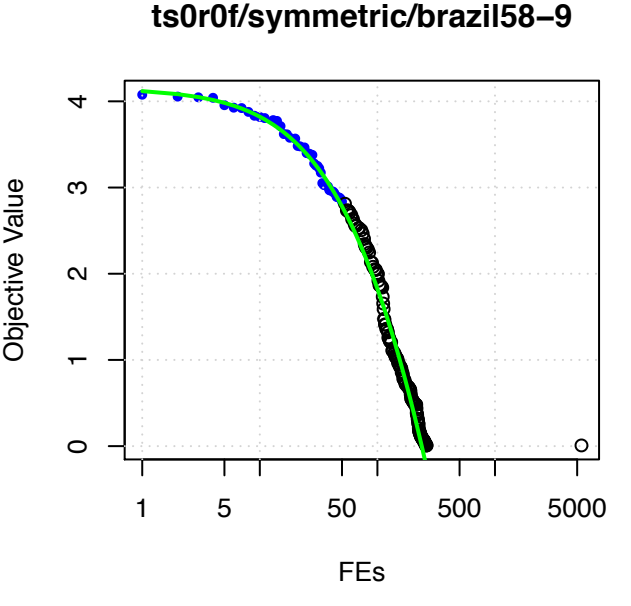
10
20
50
200
FEs


ts0r0f/symmetric/brazil58−9
Objective Value
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1
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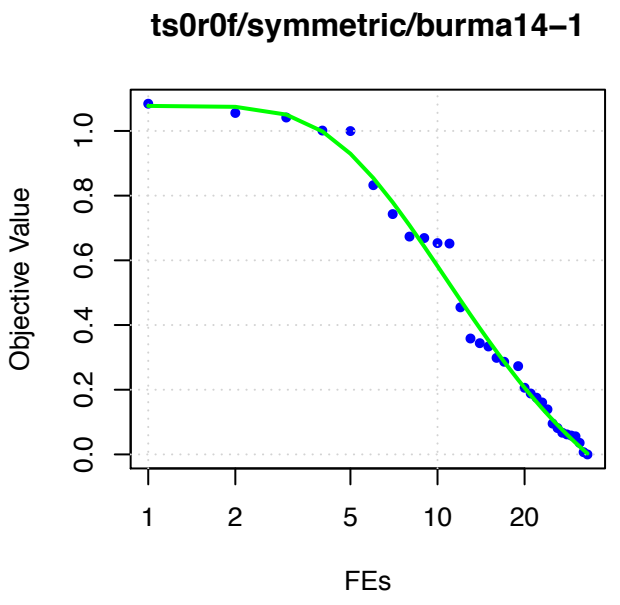
3
4
1
5
50
500
5000
FEs


ts0r0f/symmetric/burma14−1
Objective Value
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0.8
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2
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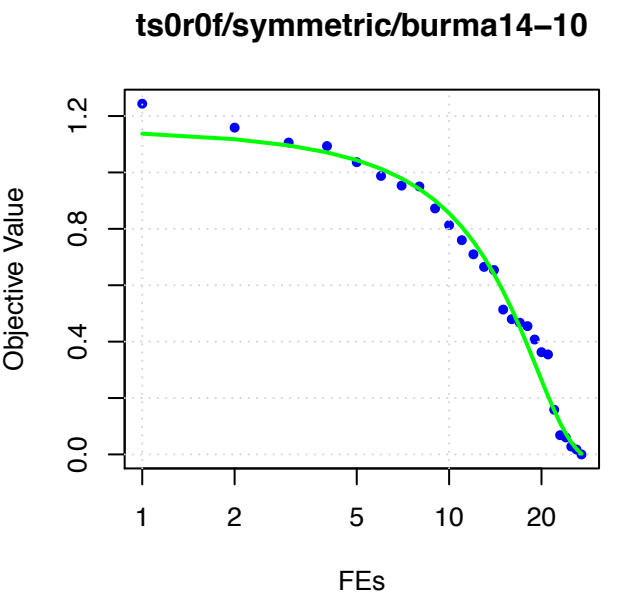
20
FEs


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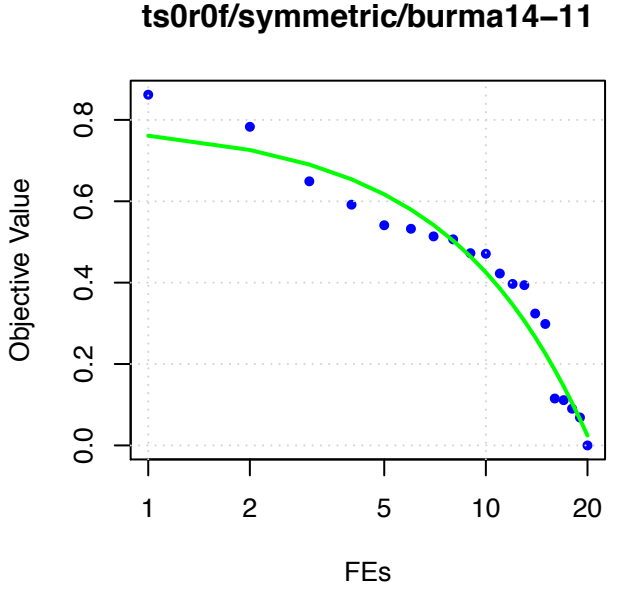
0.8
1.2
1
2
5
10
20
FEs


ts0r0f/symmetric/burma14−11
Objective Value
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0.6
0.8
1
2
5
10
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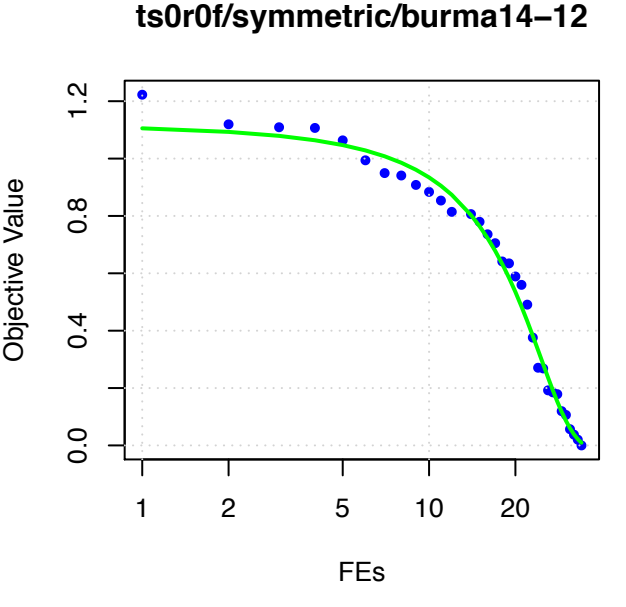
FEs


ts0r0f/symmetric/burma14−12
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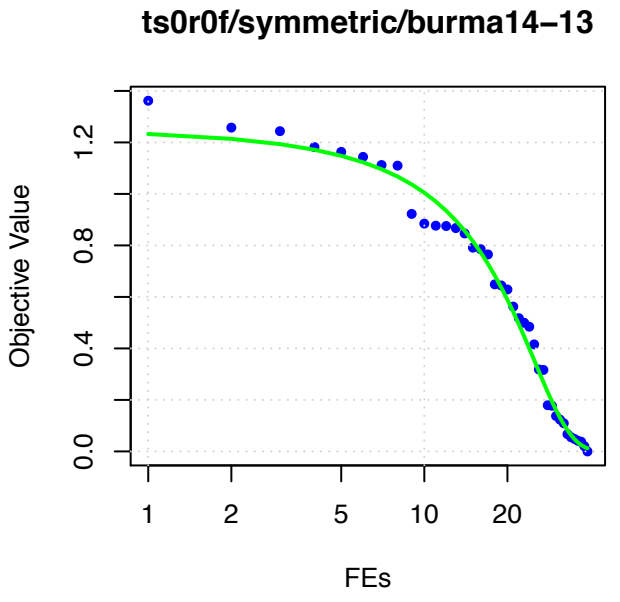
0.8
1.2
1
2
5
10
20
FEs


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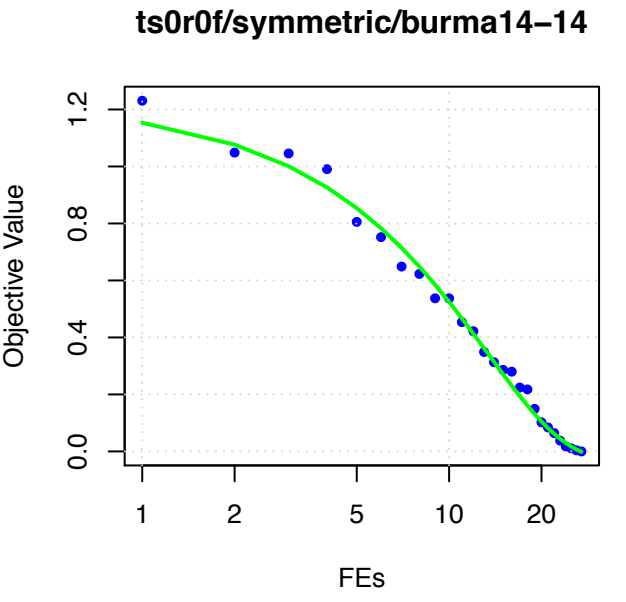
0.8
1.2
1
2
5
10
20
FEs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0.8
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1
2
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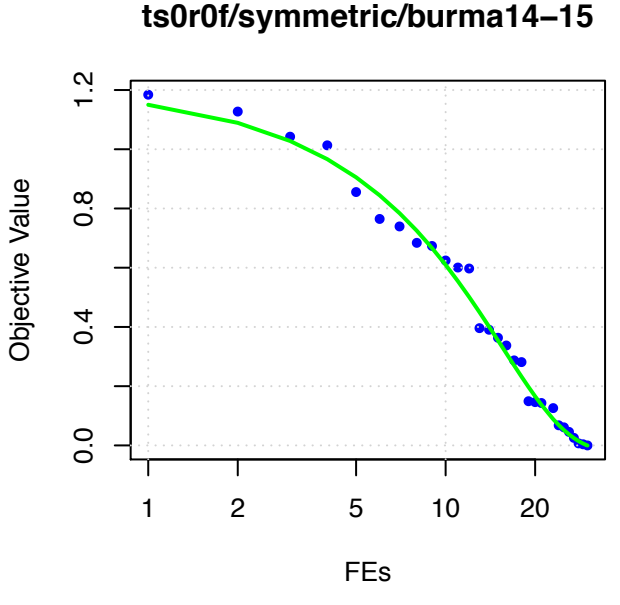
10
20
FEs


ts0r0f/symmetric/burma14−15
Objective Value
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0.8
1.2
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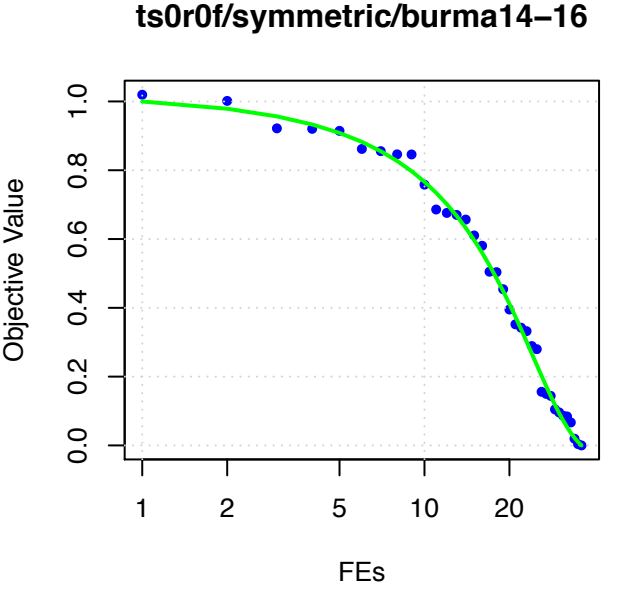
2
5
10
20
FEs


ts0r0f/symmetric/burma14−16
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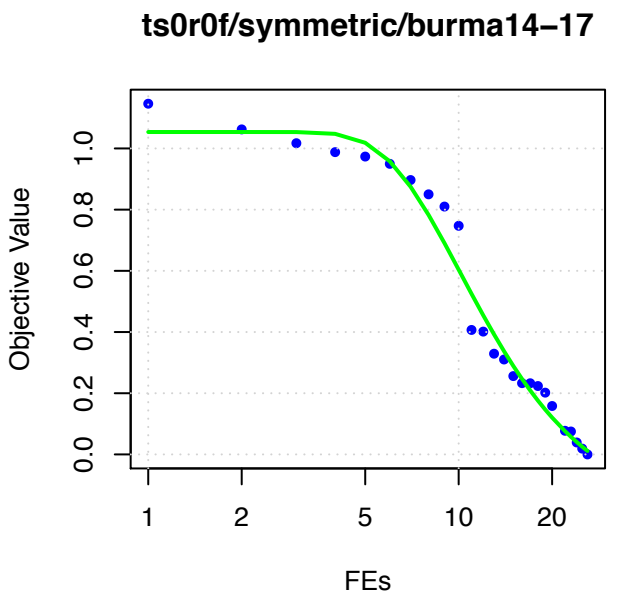
FEs


ts0r0f/symmetric/burma14−17
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0.8
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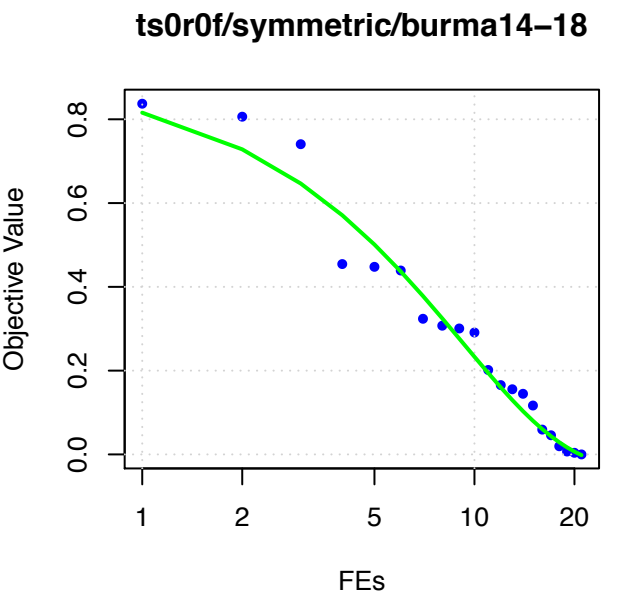
FEs


ts0r0f/symmetric/burma14−18
Objective Value
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2
5
10
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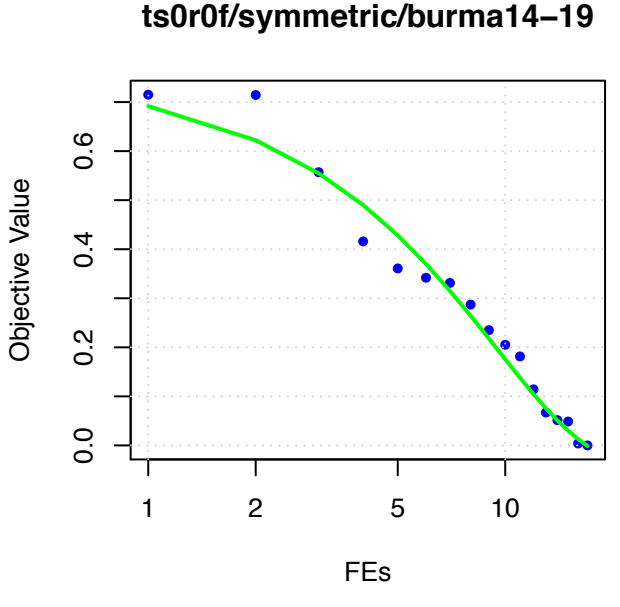
FEs


ts0r0f/symmetric/burma14−19
Objective Value
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2
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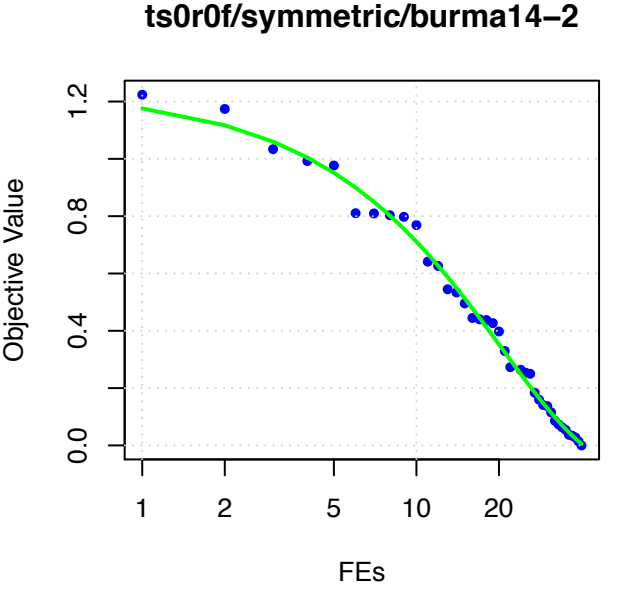
10
FEs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Objective Value
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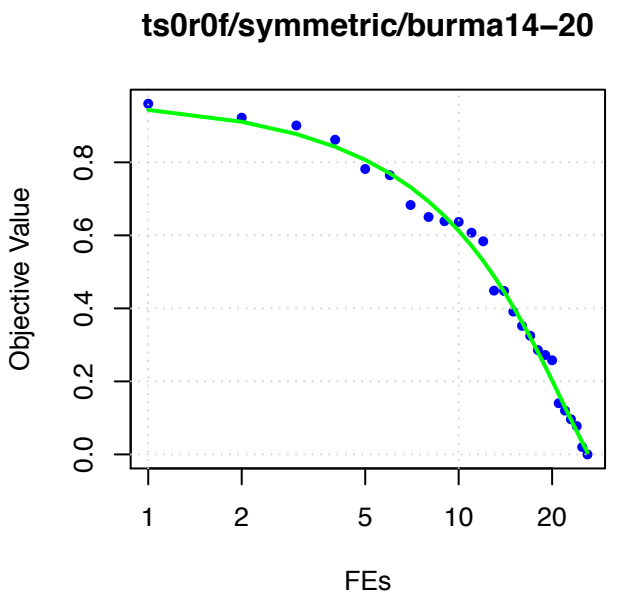
0.8
1.2
1
2
5
10
20
FEs


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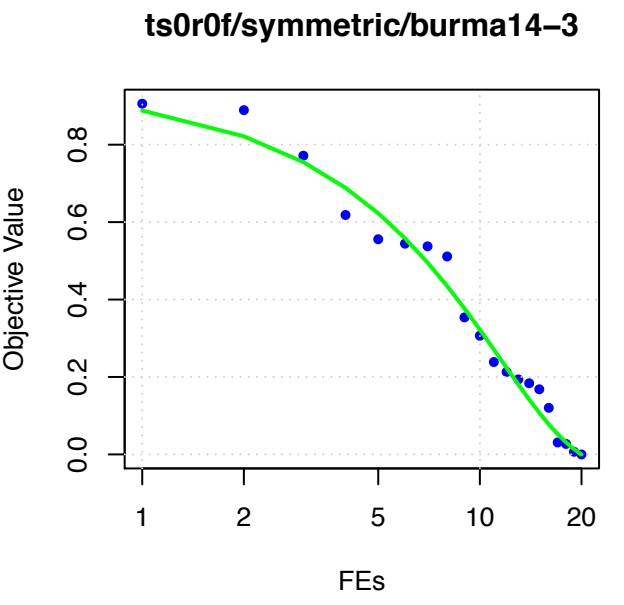
0.4
0.6
0.8
1
2
5
10
20
FEs


ts0r0f/symmetric/burma14−3
Objective Value
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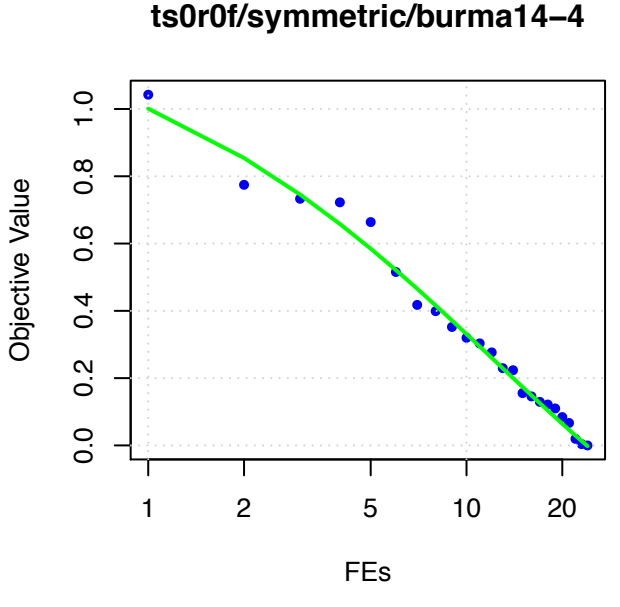
0.4
0.6
0.8
1
2
5
10
20
FEs


ts0r0f/symmetric/burma14−4
Objective Value
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0.4
0.6
0.8
1.0
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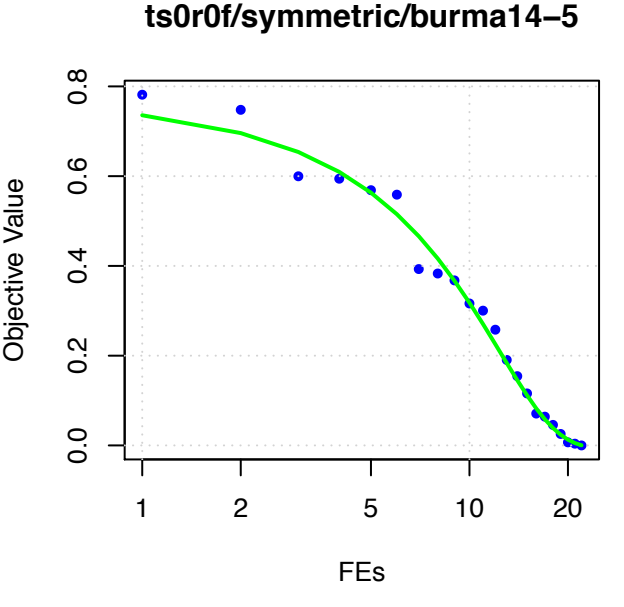
2
5
10
20
FEs


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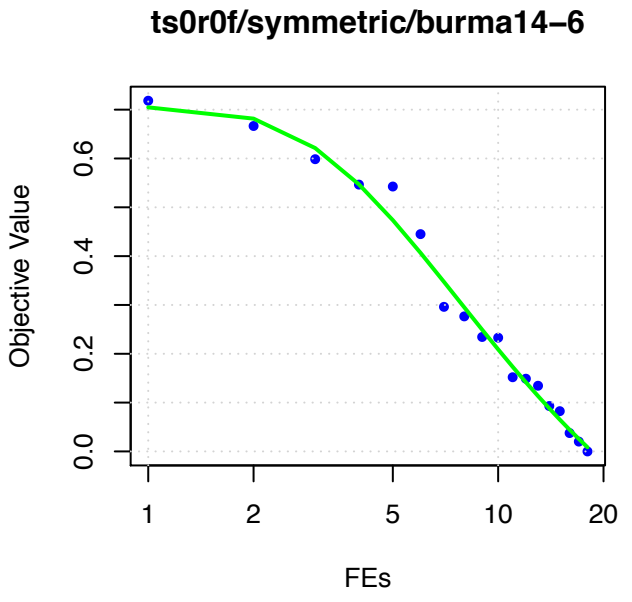
0.4
0.6
0.8
1
2
5
10
20
FEs


ts0r0f/symmetric/burma14−6
Objective Value
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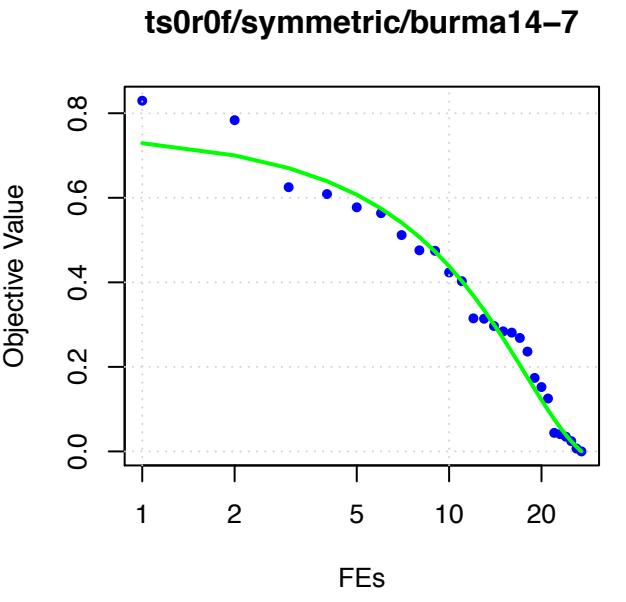
0.4
0.6
1
2
5
10
20
FEs


ts0r0f/symmetric/burma14−7
Objective Value
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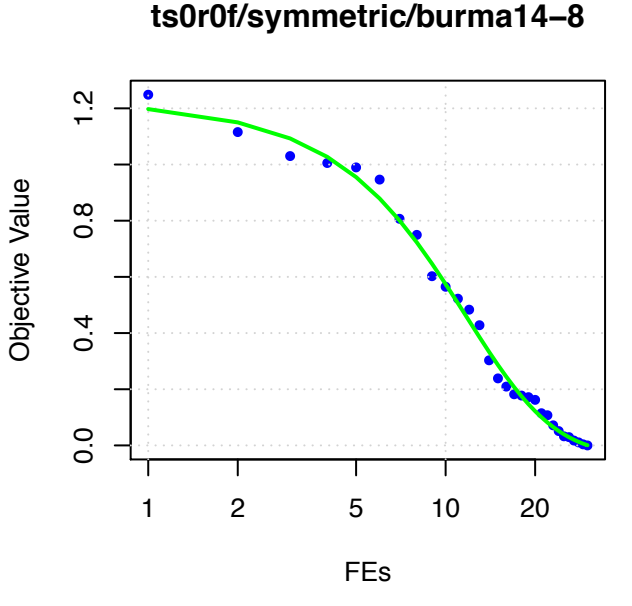
0.4
0.6
0.8
1
2
5
10
20
FEs


ts0r0f/symmetric/burma14−8
Objective Value
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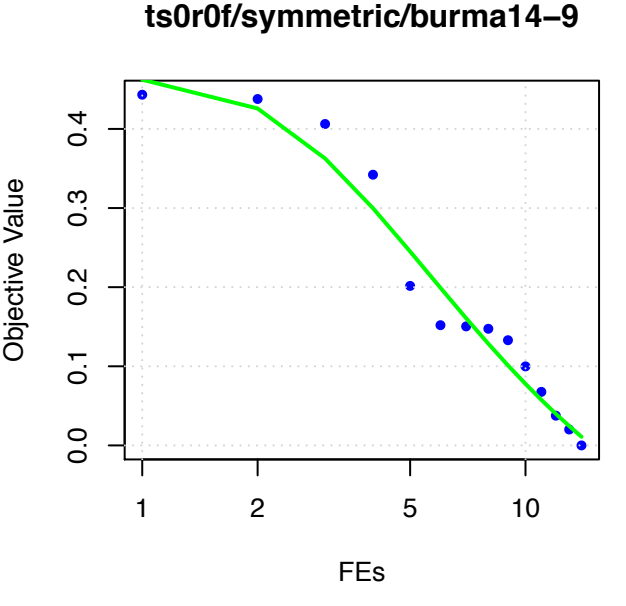
0.8
1.2
1
2
5
10
20
FEs


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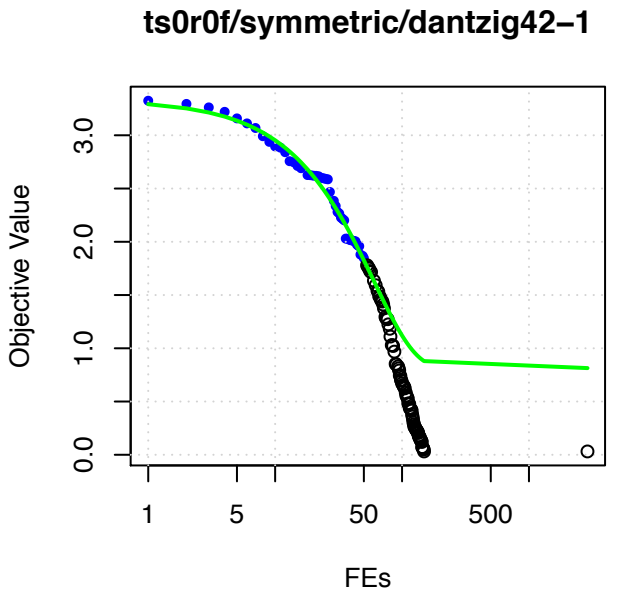
0.2
0.3
0.4
1
2
5
10
FEs


ts0r0f/symmetric/dantzig42−1
Objective Value
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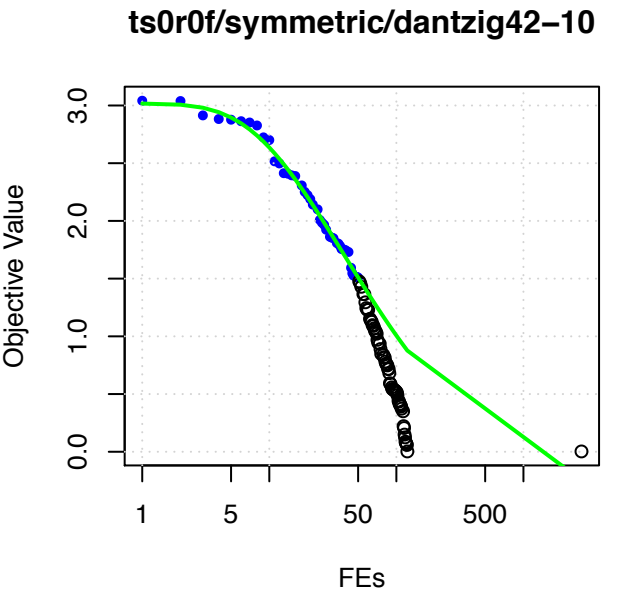
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0f/symmetric/dantzig42−10
Objective Value
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3.0
1
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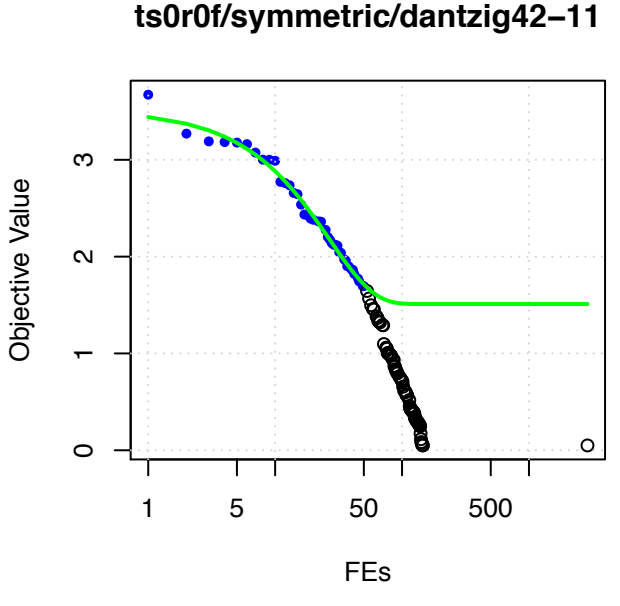
50
500
FEs


ts0r0f/symmetric/dantzig42−11
Objective Value
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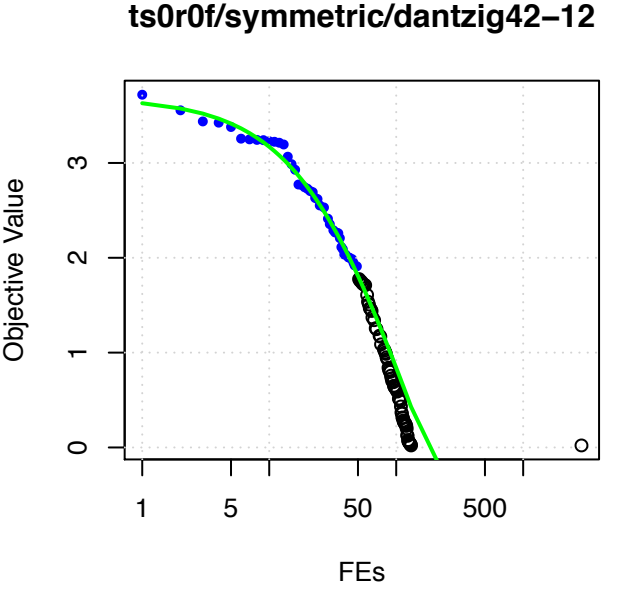
2
3
1
5
50
500
FEs


ts0r0f/symmetric/dantzig42−12
Objective Value
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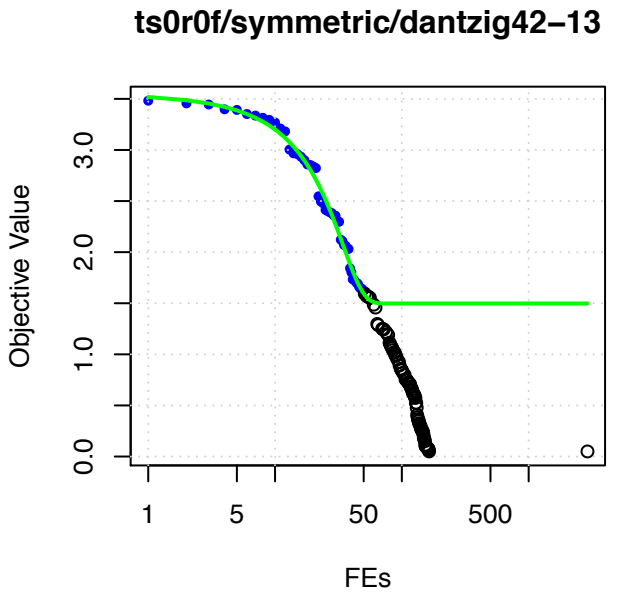
FEs


ts0r0f/symmetric/dantzig42−13
Objective Value
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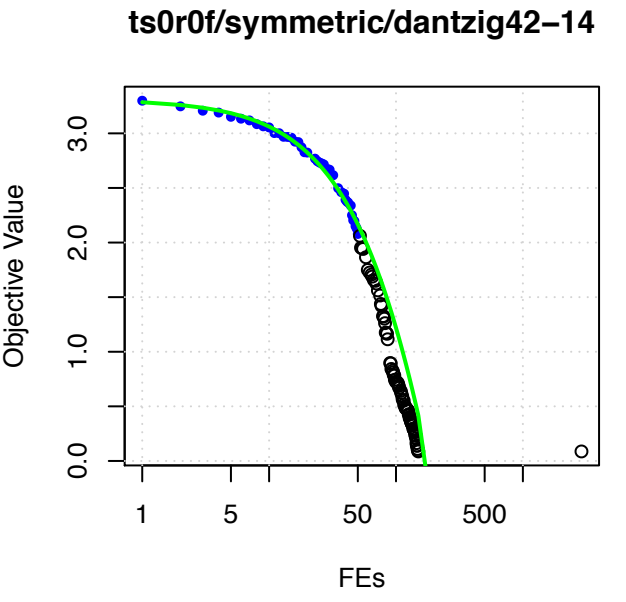
500
FEs


ts0r0f/symmetric/dantzig42−14
Objective Value
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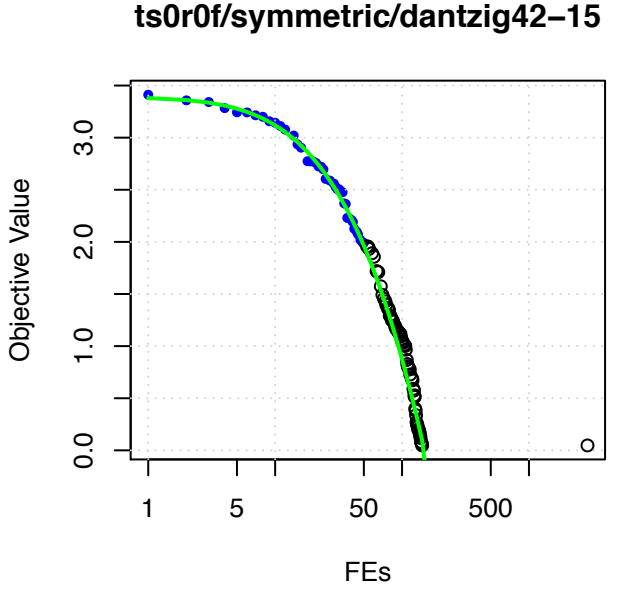
5
50
500
FEs


ts0r0f/symmetric/dantzig42−15
Objective Value
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1.0
2.0
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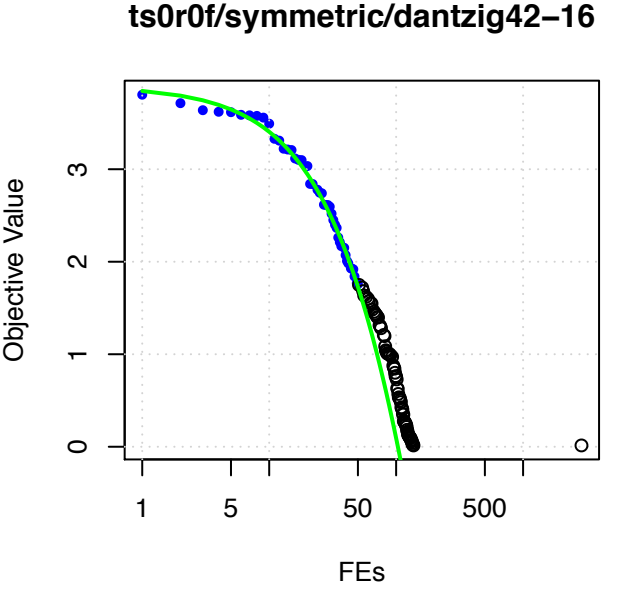
500
FEs


ts0r0f/symmetric/dantzig42−16
Objective Value
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2
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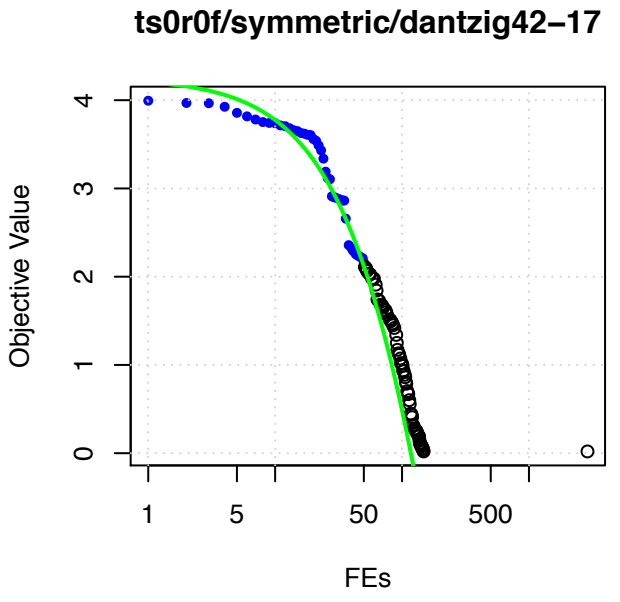
1
5
50
500
FEs


ts0r0f/symmetric/dantzig42−17
Objective Value
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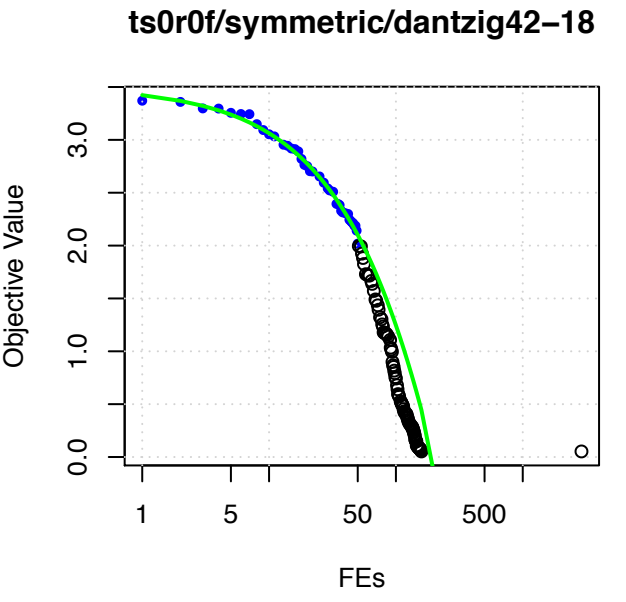
2
3
4
1
5
50
500
FEs


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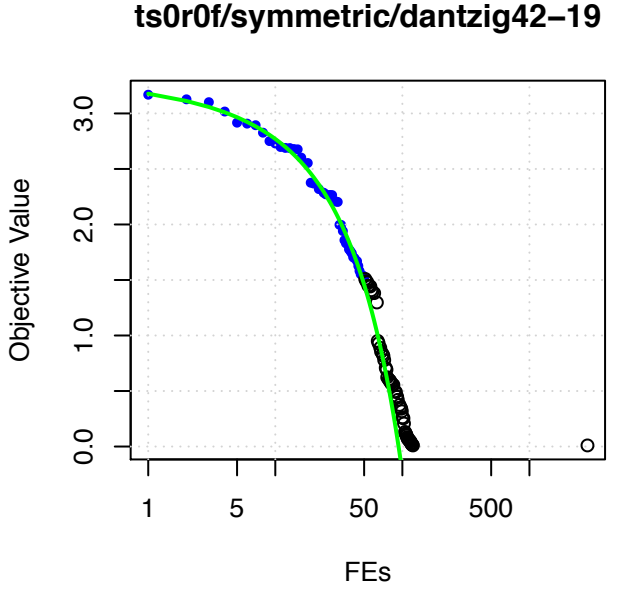
1.0
2.0
3.0
1
5
50
500
FEs


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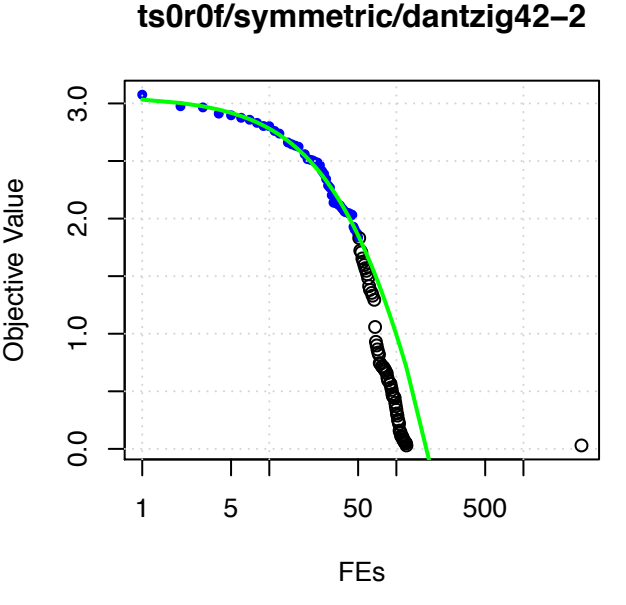
1.0
2.0
3.0
1
5
50
500
FEs


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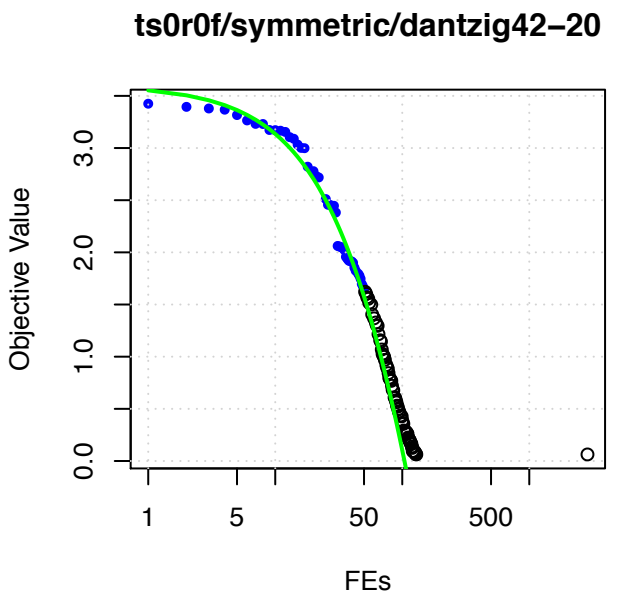
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0f/symmetric/dantzig42−20
Objective Value
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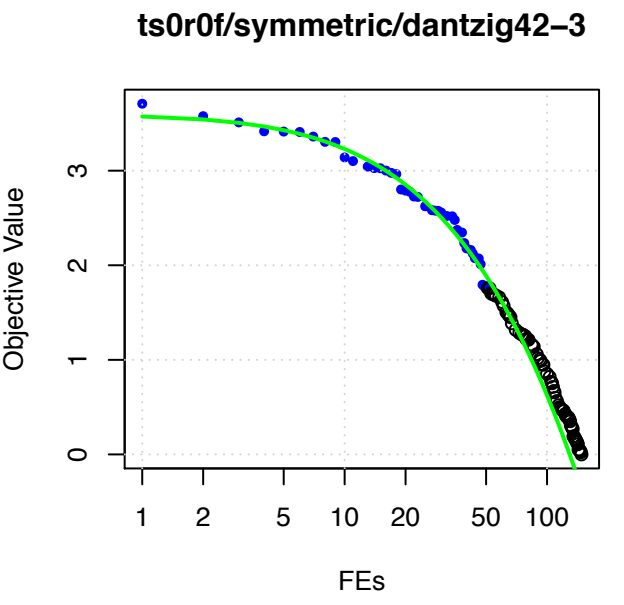
2.0
3.0
1
5
50
500
FEs


ts0r0f/symmetric/dantzig42−3
Objective Value
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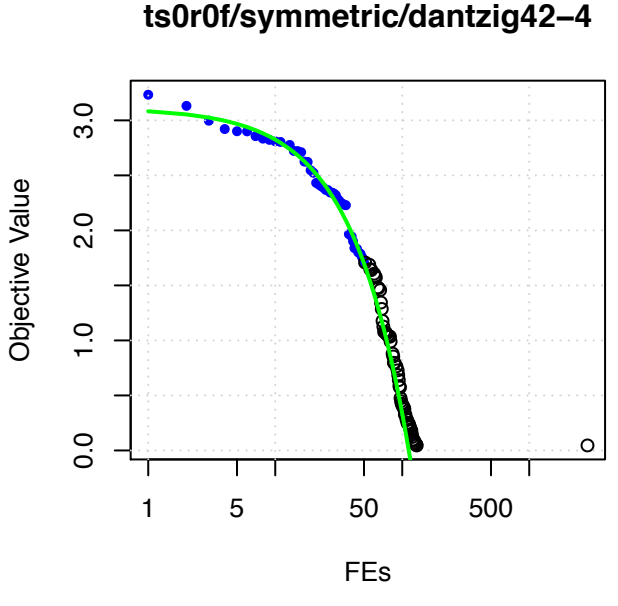
1
2
3
1
2
5
10
20
50
100
FEs


ts0r0f/symmetric/dantzig42−4
Objective Value
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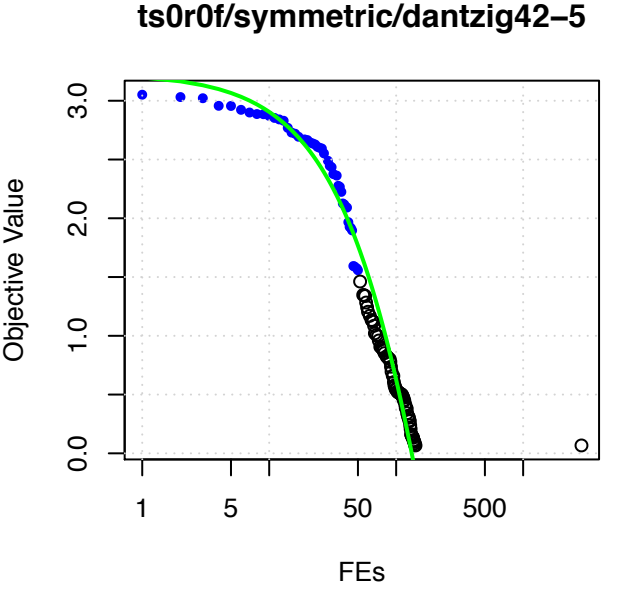
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0f/symmetric/dantzig42−5
Objective Value
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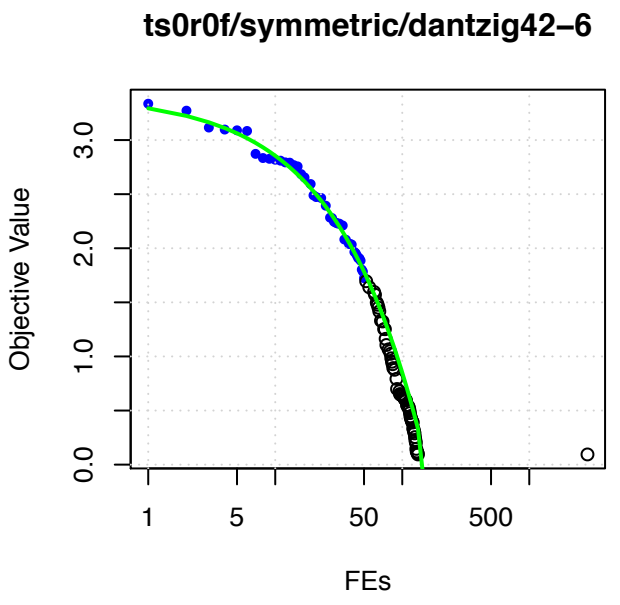
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0f/symmetric/dantzig42−6
Objective Value
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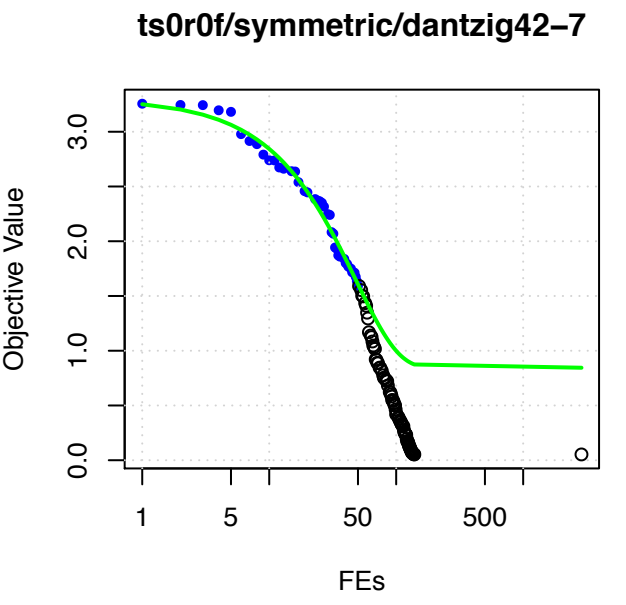
1.0
2.0
3.0
1
5
50
500
FEs


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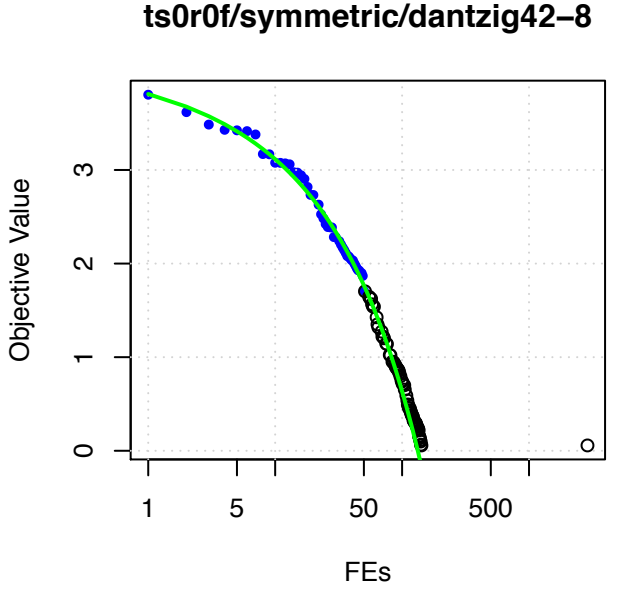
1.0
2.0
3.0
1
5
50
500
FEs


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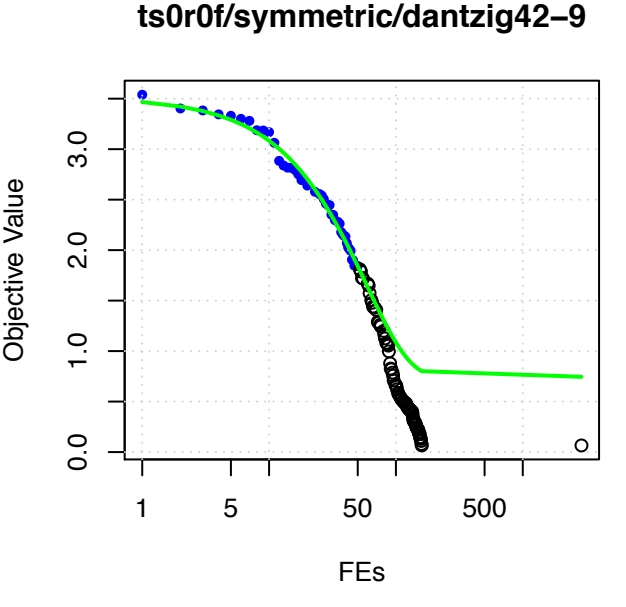
1
2
3
1
5
50
500
FEs


ts0r0f/symmetric/dantzig42−9
Objective Value
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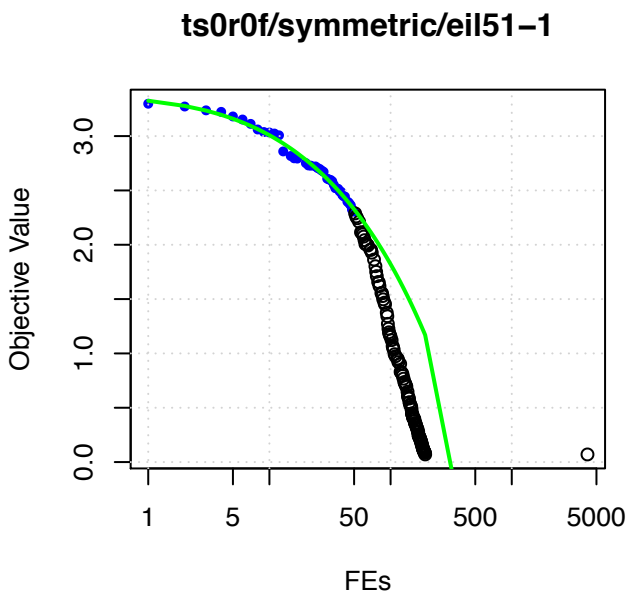
1.0
2.0
3.0
1
5
50
500
FEs


ts0r0f/symmetric/eil51−1
Objective Value
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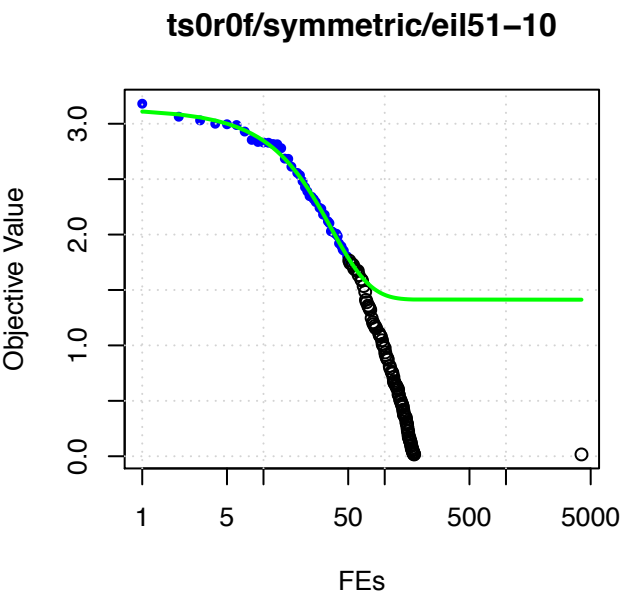
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/eil51−10
Objective Value
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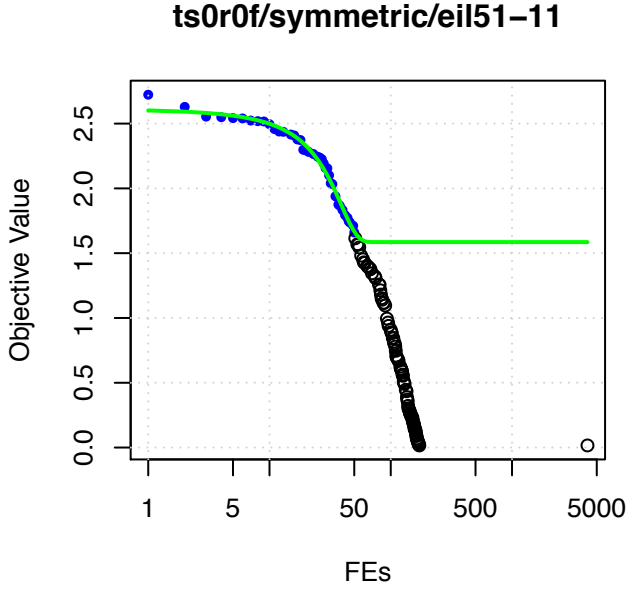
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/eil51−11
Objective Value
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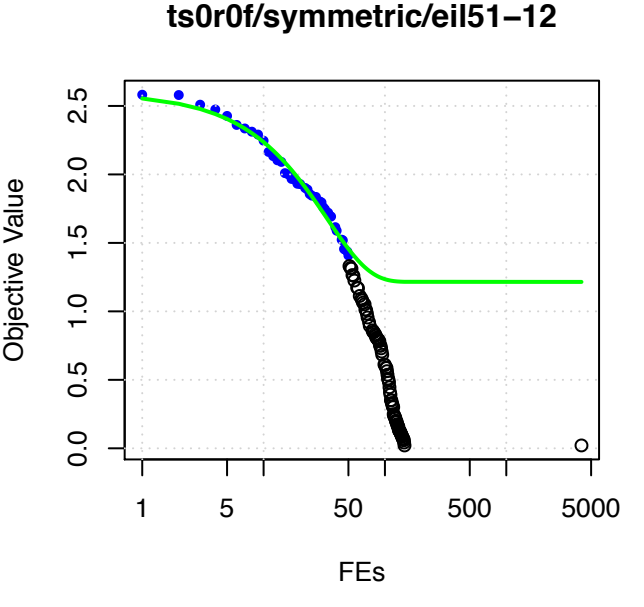
0.5
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0f/symmetric/eil51−12
Objective Value
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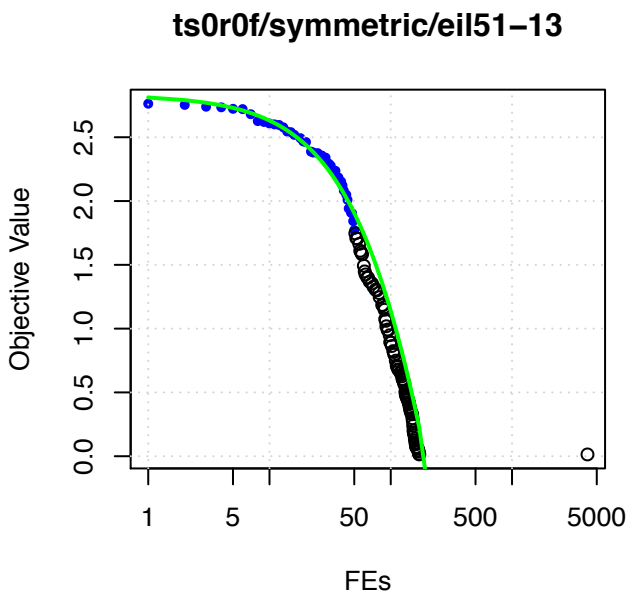
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0f/symmetric/eil51−13
Objective Value
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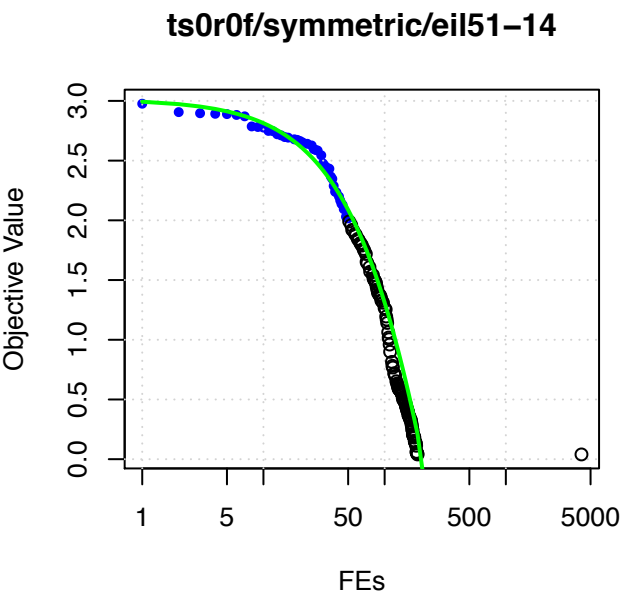
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0f/symmetric/eil51−14
Objective Value
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1.5
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2.5
3.0
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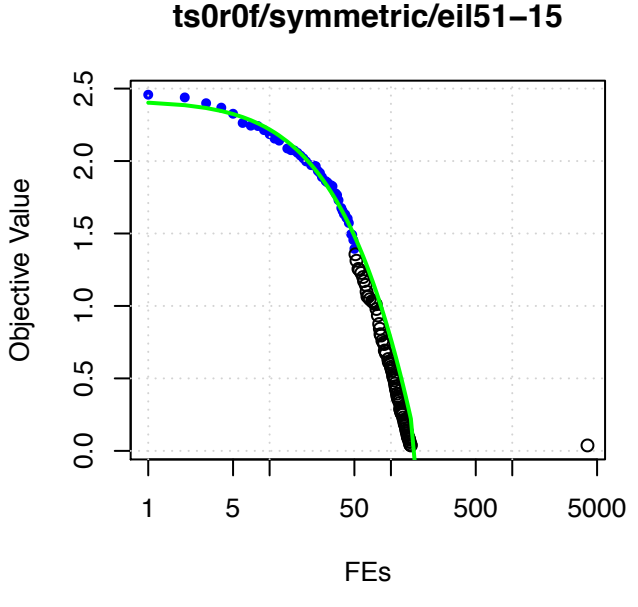
50
500
5000
FEs


ts0r0f/symmetric/eil51−15
Objective Value
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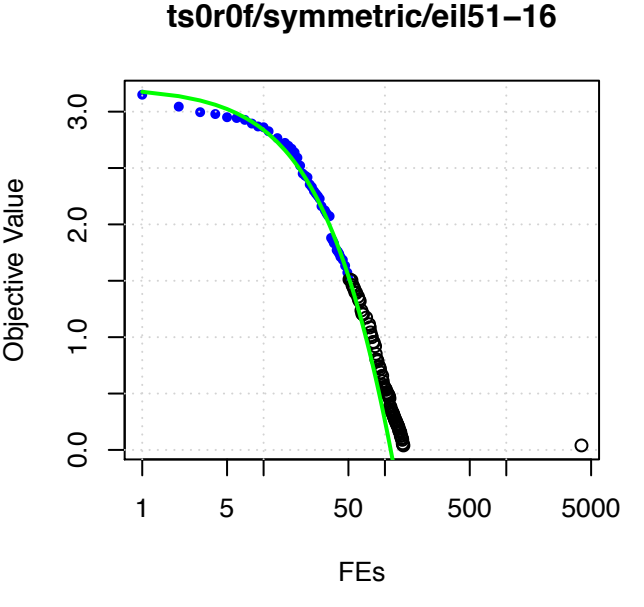
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0f/symmetric/eil51−16
Objective Value
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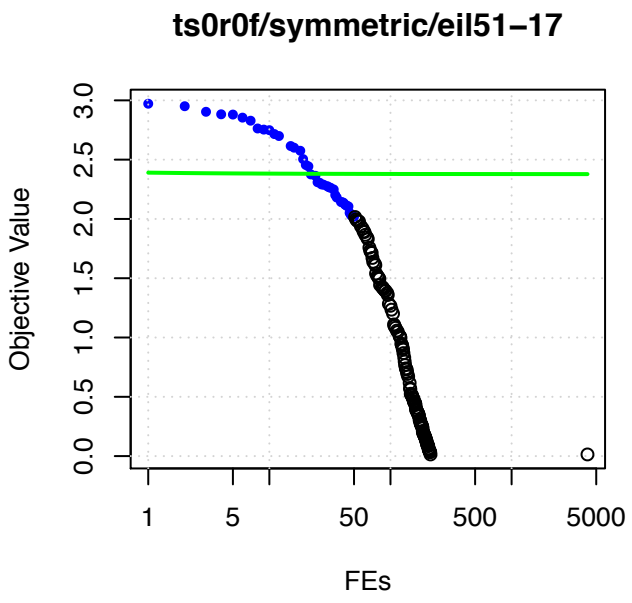
5000
FEs


ts0r0f/symmetric/eil51−17
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1.5
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2.5
3.0
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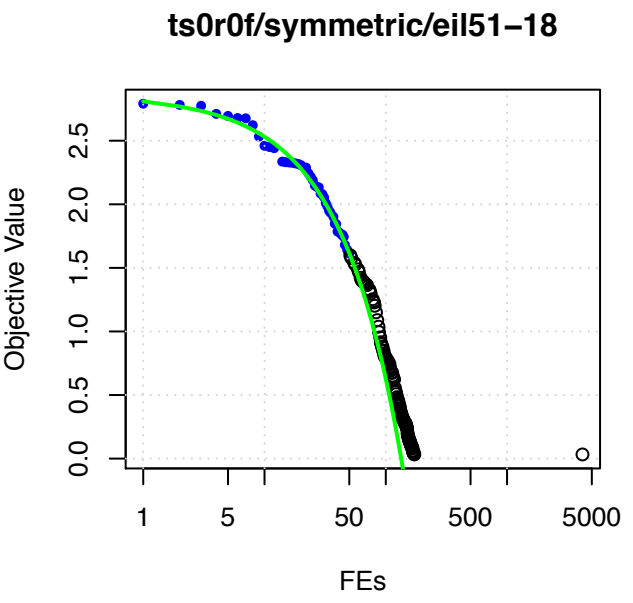
500
5000
FEs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2.5
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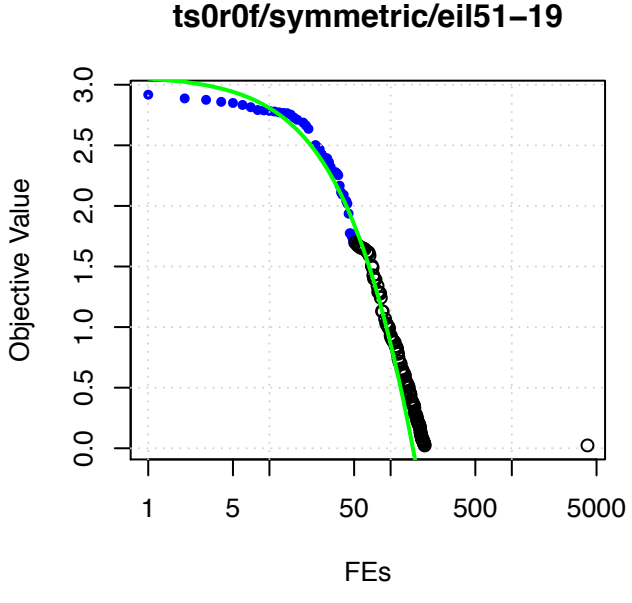
5000
FEs


ts0r0f/symmetric/eil51−19
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1.5
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2.5
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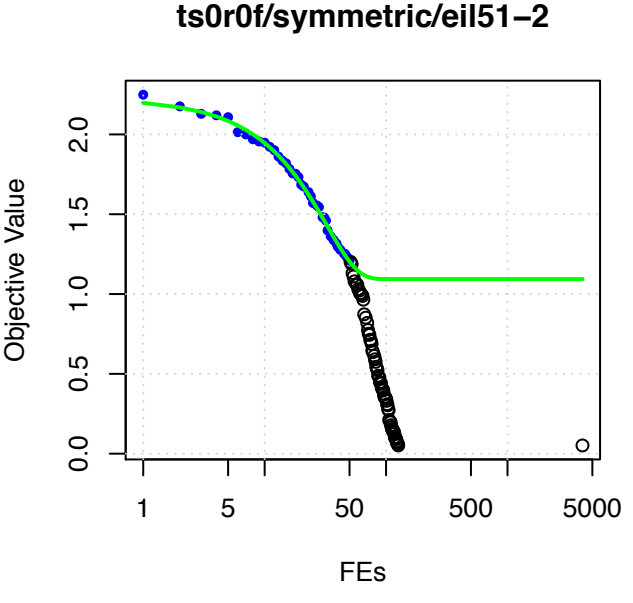
5000
FEs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500
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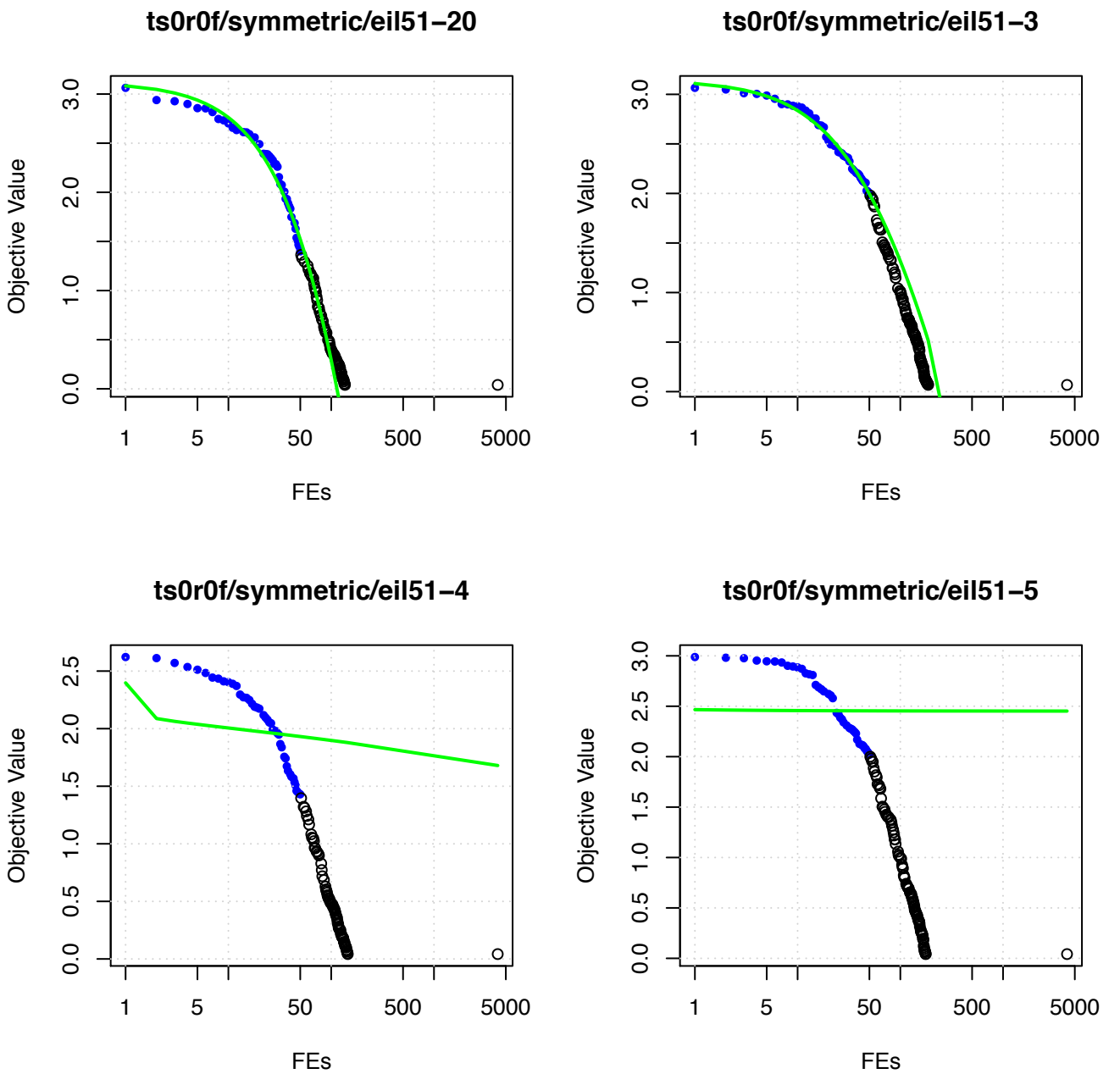
FEs


ts0r0f/symmetric/eil51−20
ts0r0f/symmetric/eil51−3
ts0r0f/symmetric/eil51−4
ts0r0f/symmetric/eil51−5
Objective Value
FEs
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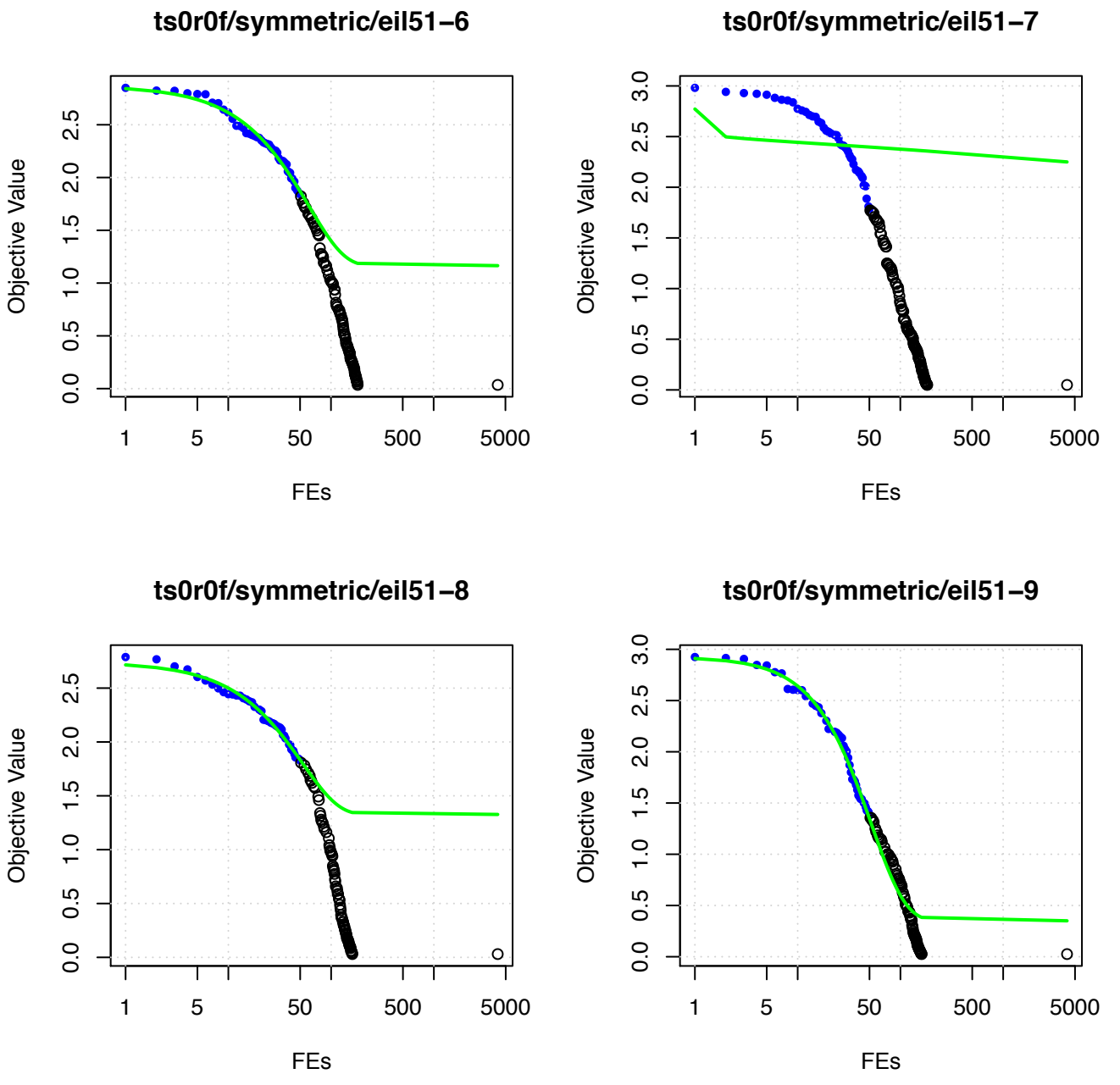
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000


ts0r0f/symmetric/eil51−6
ts0r0f/symmetric/eil51−7
ts0r0f/symmetric/eil51−8
ts0r0f/symmetric/eil51−9
Objective Value
FEs
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1.0
1.5
2.0
2.5
3.0
1
5
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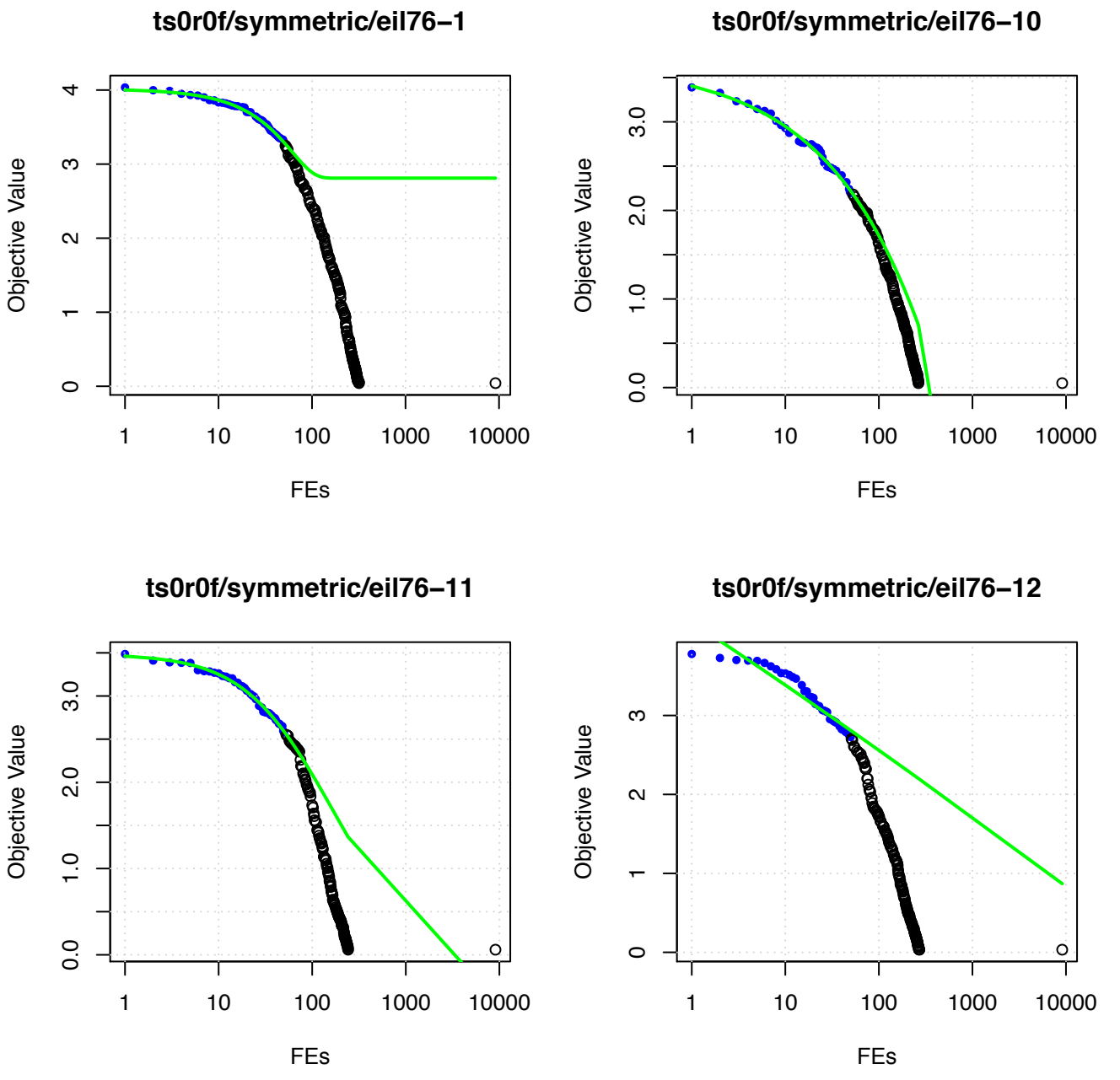
500
5000


ts0r0f/symmetric/eil76−1
ts0r0f/symmetric/eil76−10
ts0r0f/symmetric/eil76−11
ts0r0f/symmetric/eil76−12
Objective Value
FEs
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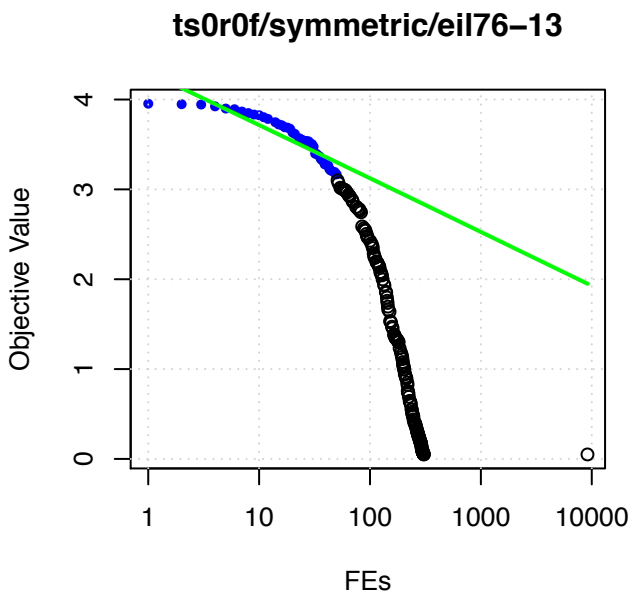
1
2
3
4
0.0
1.0
2.0
3.0
1
10
100
1000
10000


ts0r0f/symmetric/eil76−13
Objective Value
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3
4
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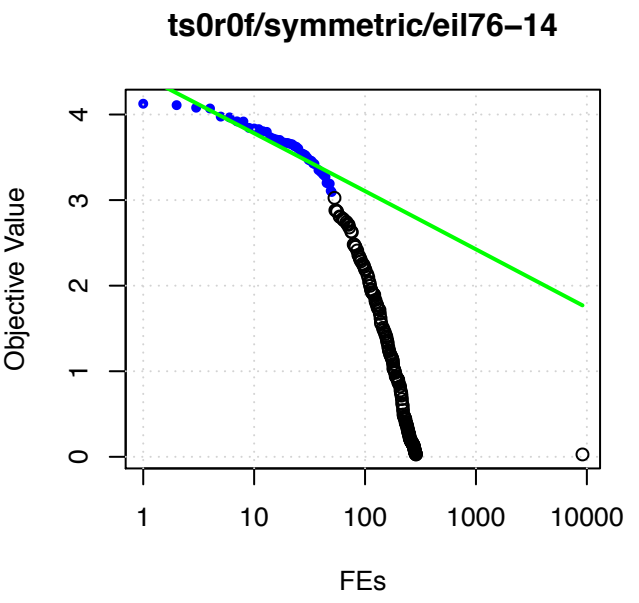
10
100
1000
10000
FEs


ts0r0f/symmetric/eil76−14
Objective Value
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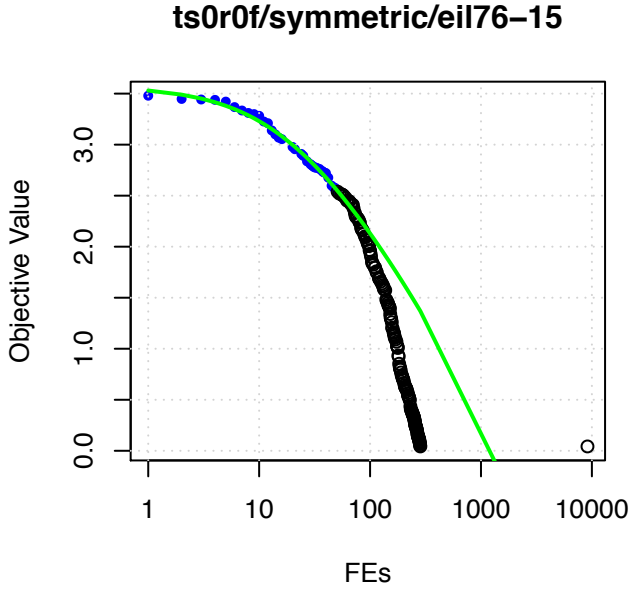
3
4
1
10
100
1000
10000
FEs


ts0r0f/symmetric/eil76−15
Objective Value
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3.0
1
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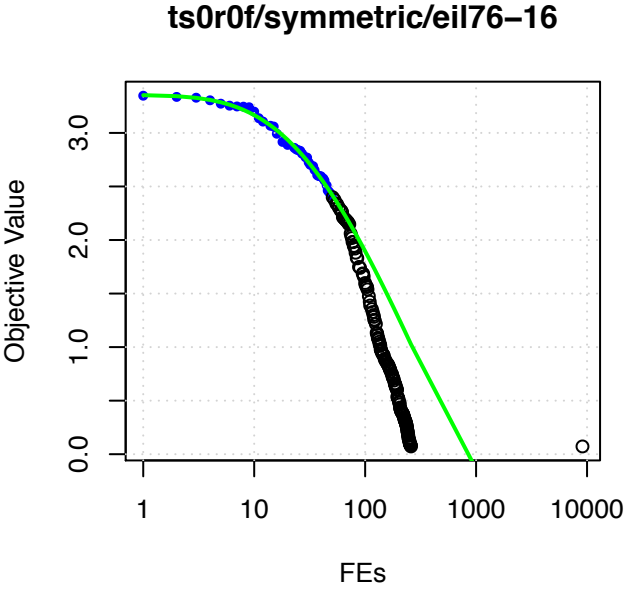
1000
10000
FEs


ts0r0f/symmetric/eil76−16
Objective Value
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2.0
3.0
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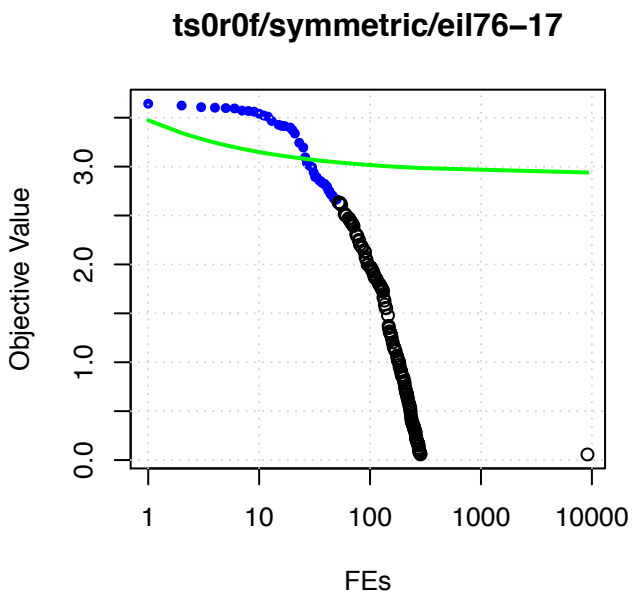
100
1000
10000
FEs


ts0r0f/symmetric/eil76−17
Objective Value
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2.0
3.0
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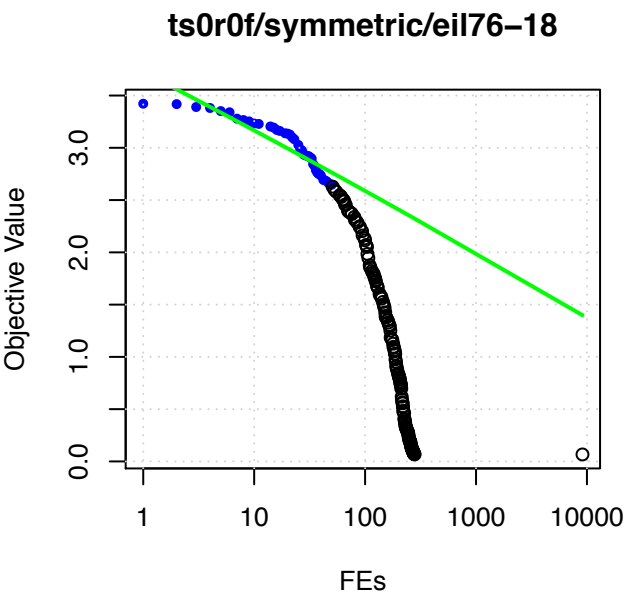
1000
10000
FEs


ts0r0f/symmetric/eil76−18
Objective Value
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3.0
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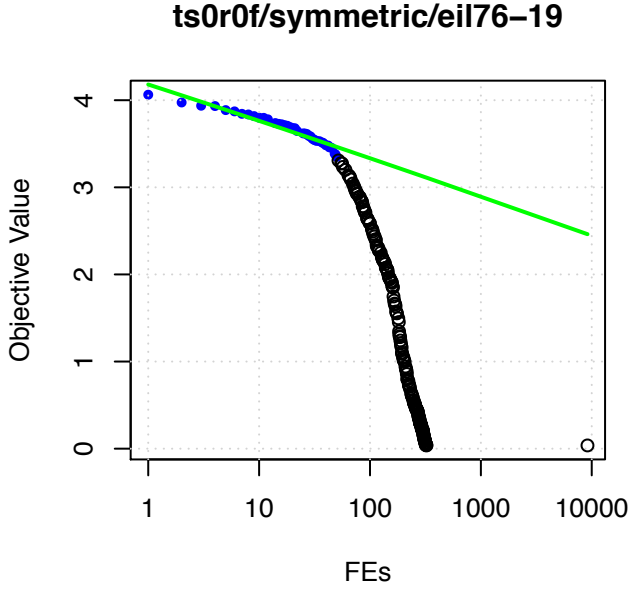
1000
10000
FEs


ts0r0f/symmetric/eil76−19
Objective Value
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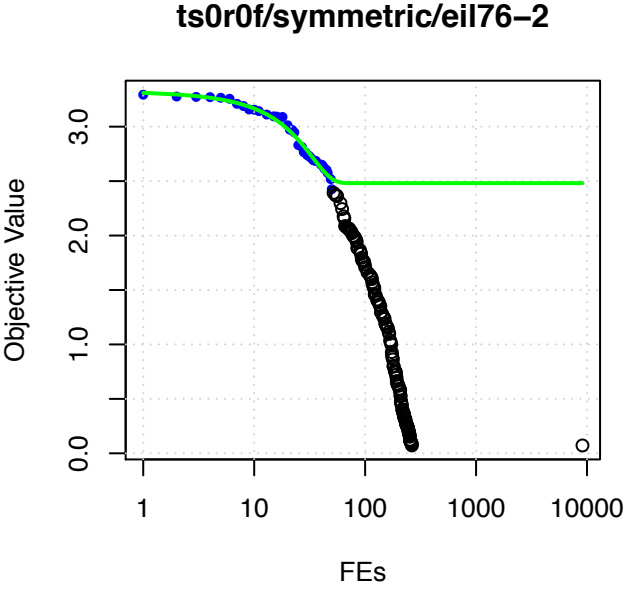
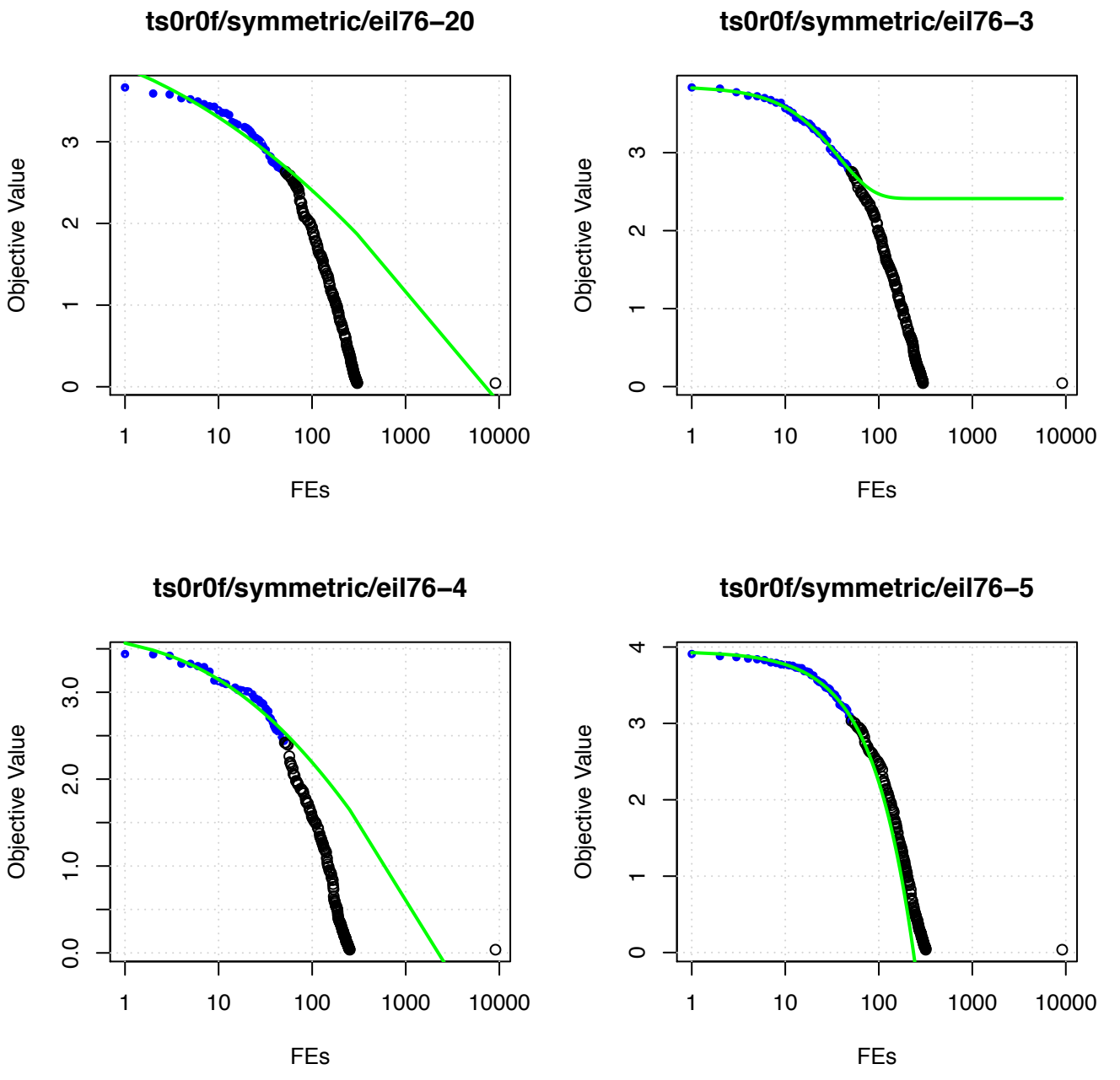
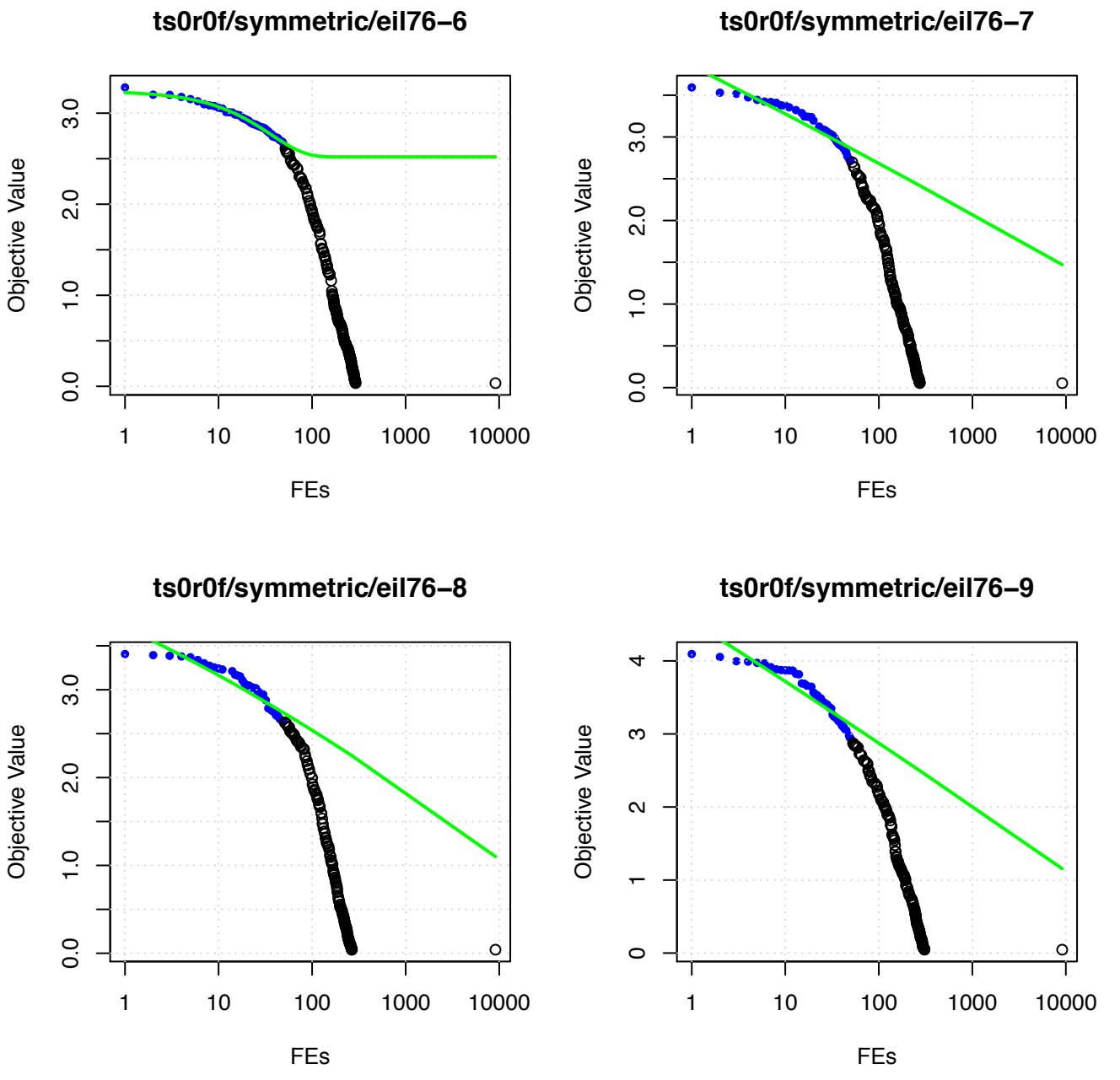
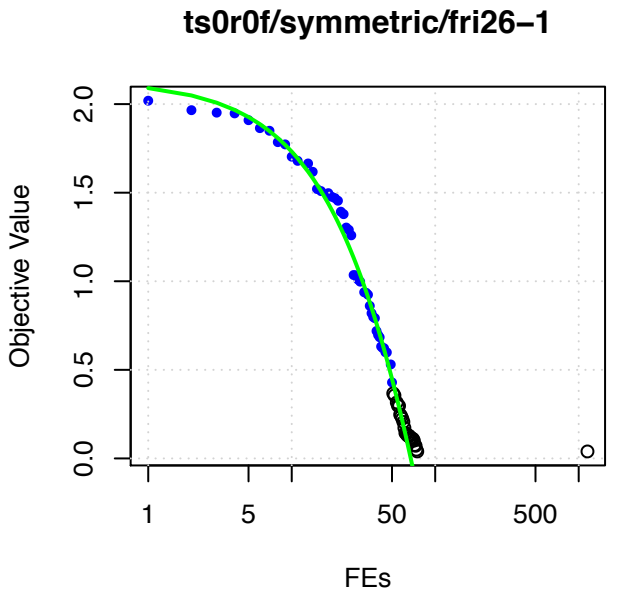
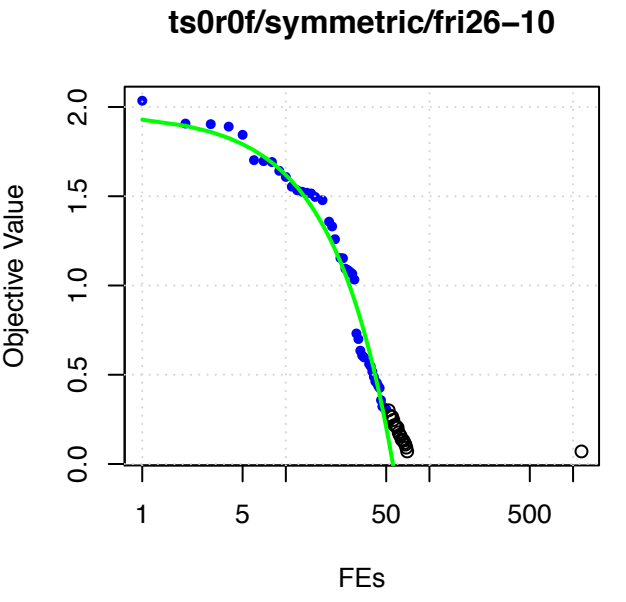
1
2
3
4
1
10
100
1000
10000
FEs

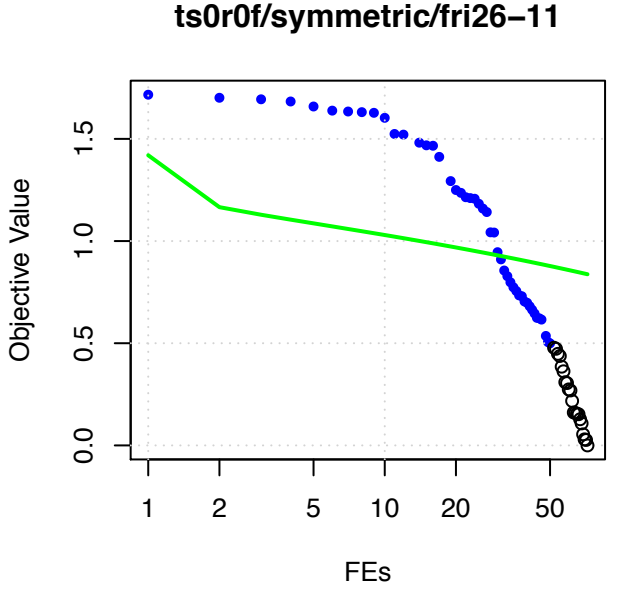

ts0r0f/symmetric/eil76−2
Objective Value
0.0
1.0
2.0
3.0
1
10
100
1000
10000
FEs

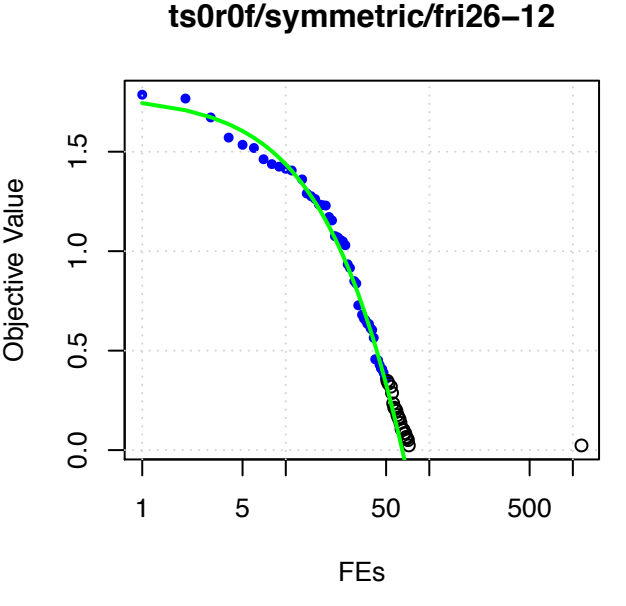

ts0r0f/symmetric/eil76−20
ts0r0f/symmetric/eil76−3
ts0r0f/symmetric/eil76−4
ts0r0f/symmetric/eil76−5
Objective Value
FEs
0
1
2
3
0.0
1.0
2.0
3.0
4
1
10
100
1000
10000

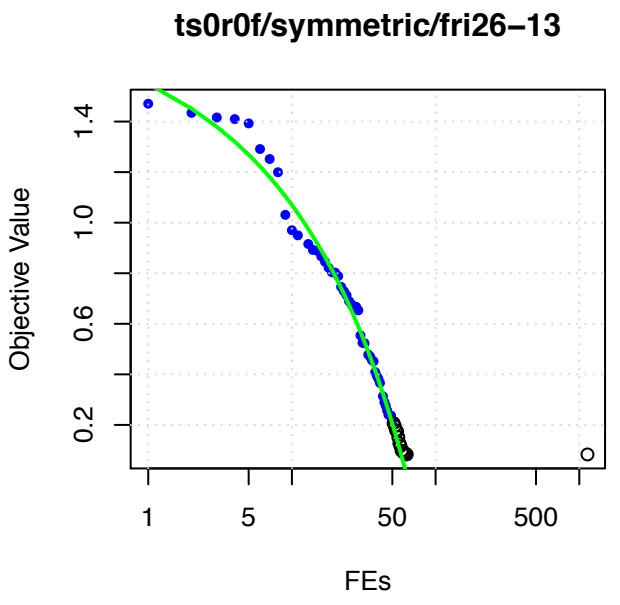

ts0r0f/symmetric/eil76−6
ts0r0f/symmetric/eil76−7
ts0r0f/symmetric/eil76−8
ts0r0f/symmetric/eil76−9
Objective Value
FEs
0.0
1.0
2.0
3.0
0
1
2
3
4
1
10
100
1000
10000

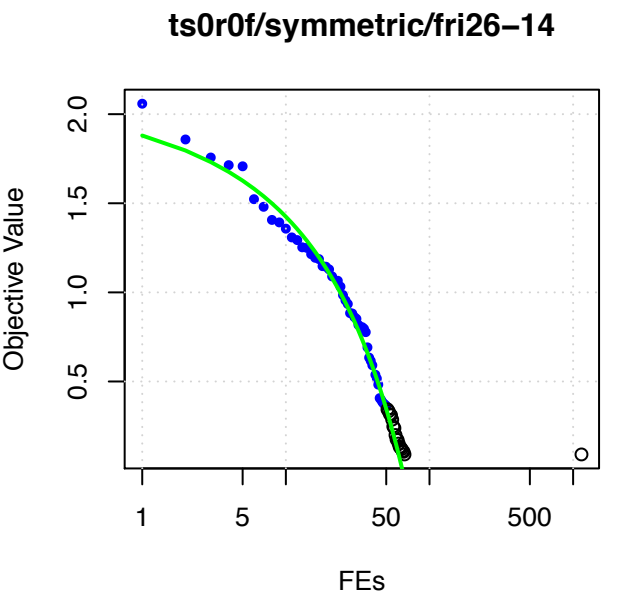

ts0r0f/symmetric/fri26−1
Objective Value
0.0
0.5
1.0
1.5
2.0
1
5
50
500
FEs

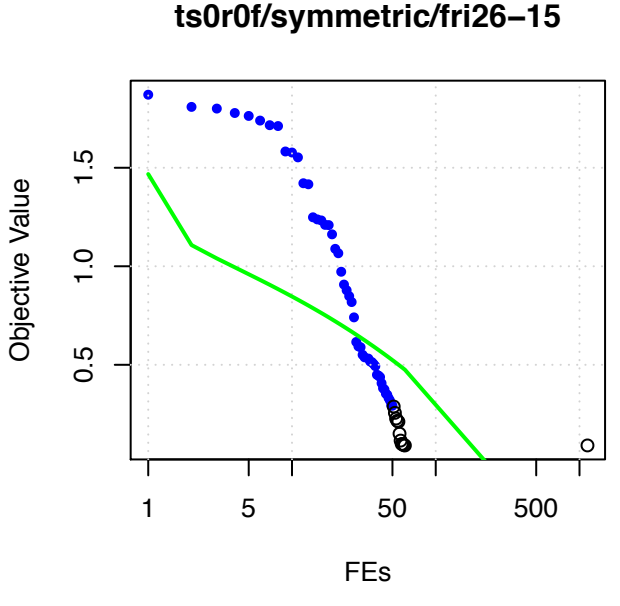

ts0r0f/symmetric/fri26−10
Objective Value
0.0
0.5
1.0
1.5
2.0
1
5
50
500
FEs

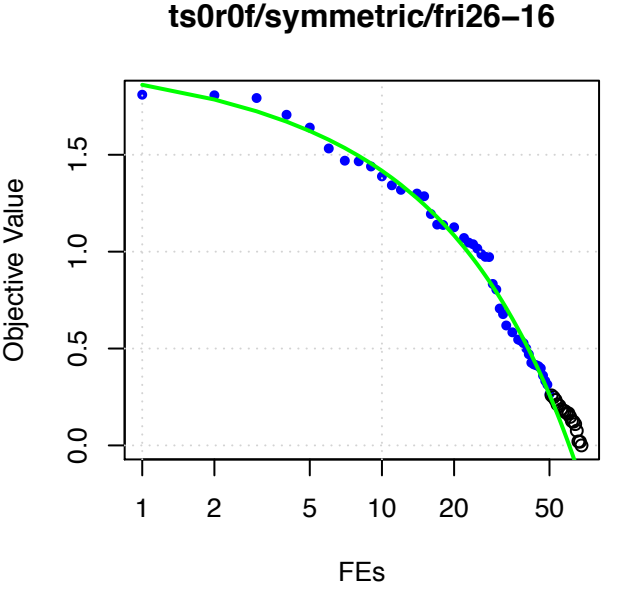

ts0r0f/symmetric/fri26−11
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
FEs

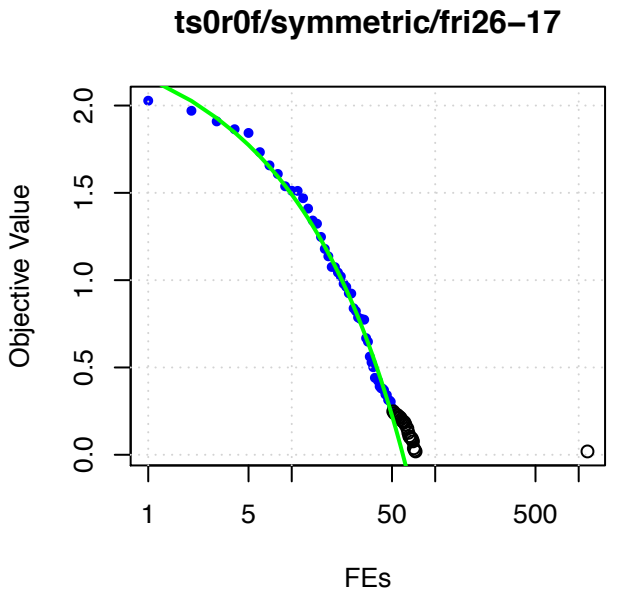

ts0r0f/symmetric/fri26−12
Objective Value
0.0
0.5
1.0
1.5
1
5
50
500
FEs

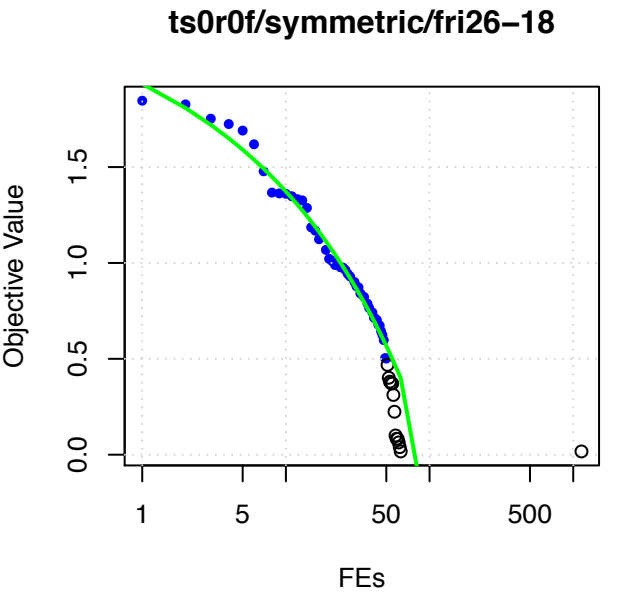

ts0r0f/symmetric/fri26−13
Objective Value
0.2
0.6
1.0
1.4
1
5
50
500
FEs

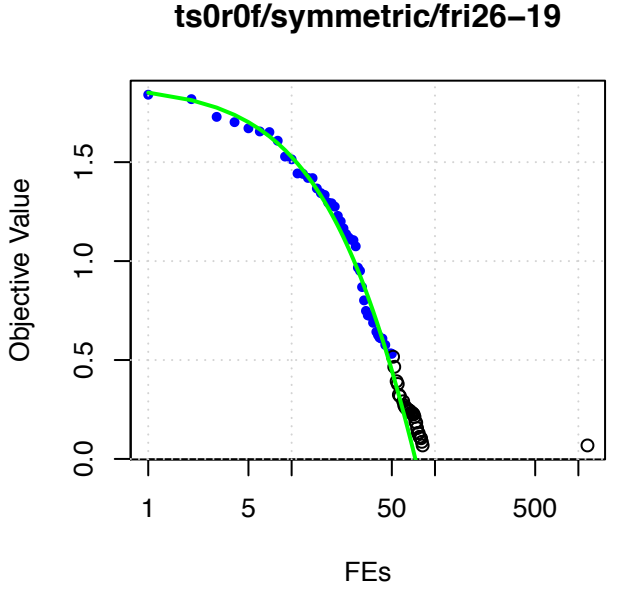

ts0r0f/symmetric/fri26−14
Objective Value
0.5
1.0
1.5
2.0
1
5
50
500
FEs

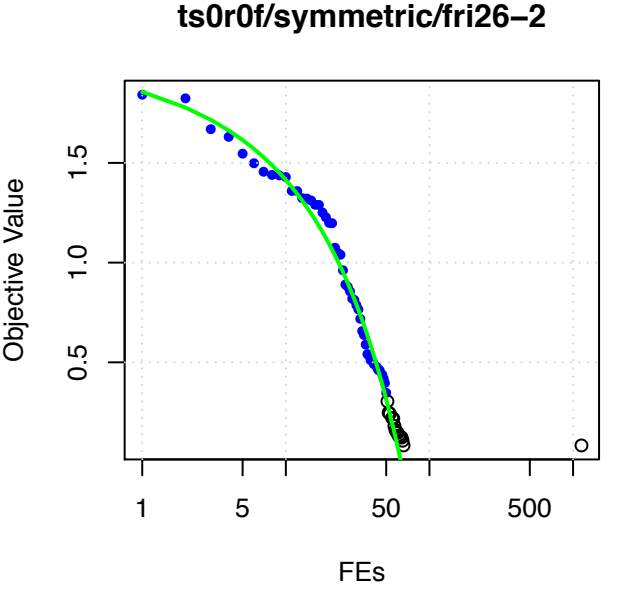

ts0r0f/symmetric/fri26−15
Objective Value
0.5
1.0
1.5
1
5
50
500
FEs

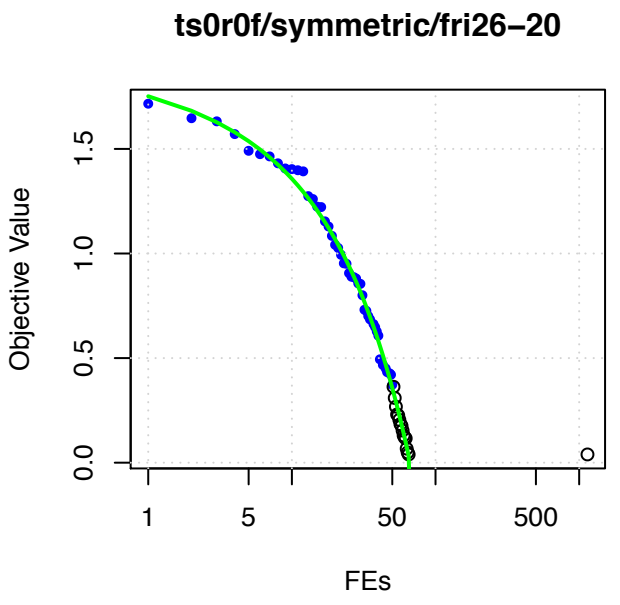

ts0r0f/symmetric/fri26−16
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
FEs

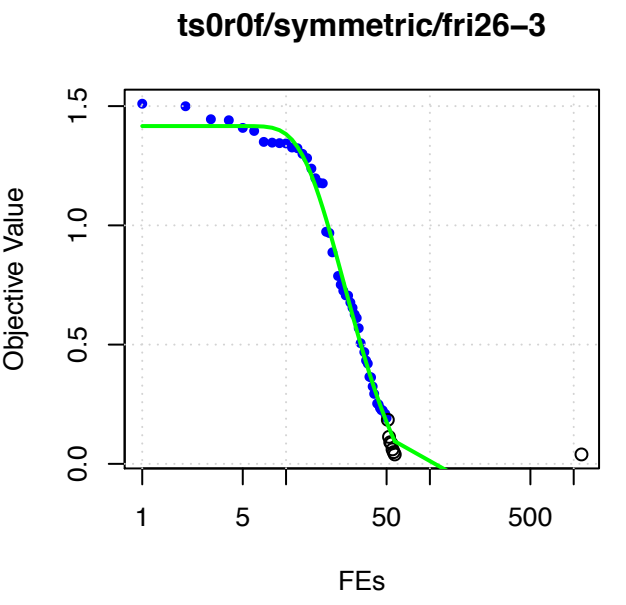

ts0r0f/symmetric/fri26−17
Objective Value
0.0
0.5
1.0
1.5
2.0
1
5
50
500
FEs

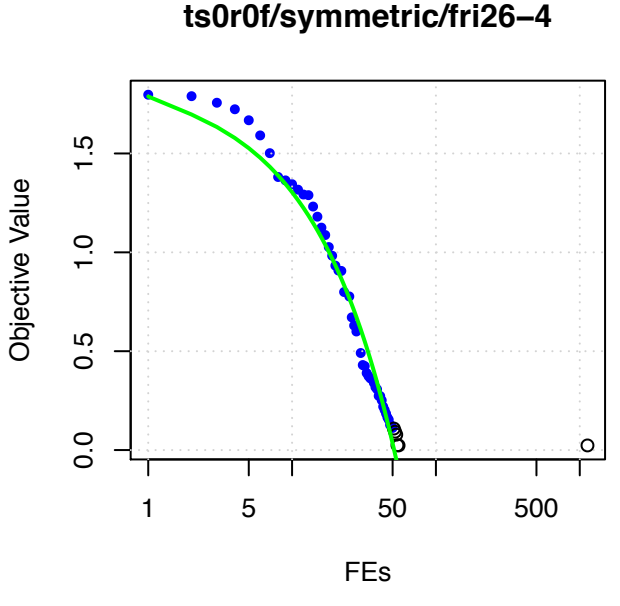

ts0r0f/symmetric/fri26−18
Objective Value
0.0
0.5
1.0
1.5
1
5
50
500
FEs

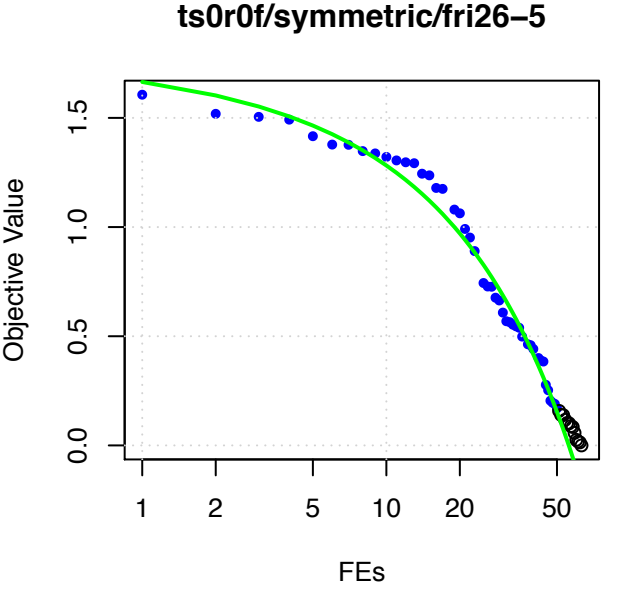

ts0r0f/symmetric/fri26−19
Objective Value
0.0
0.5
1.0
1.5
1
5
50
500
FEs

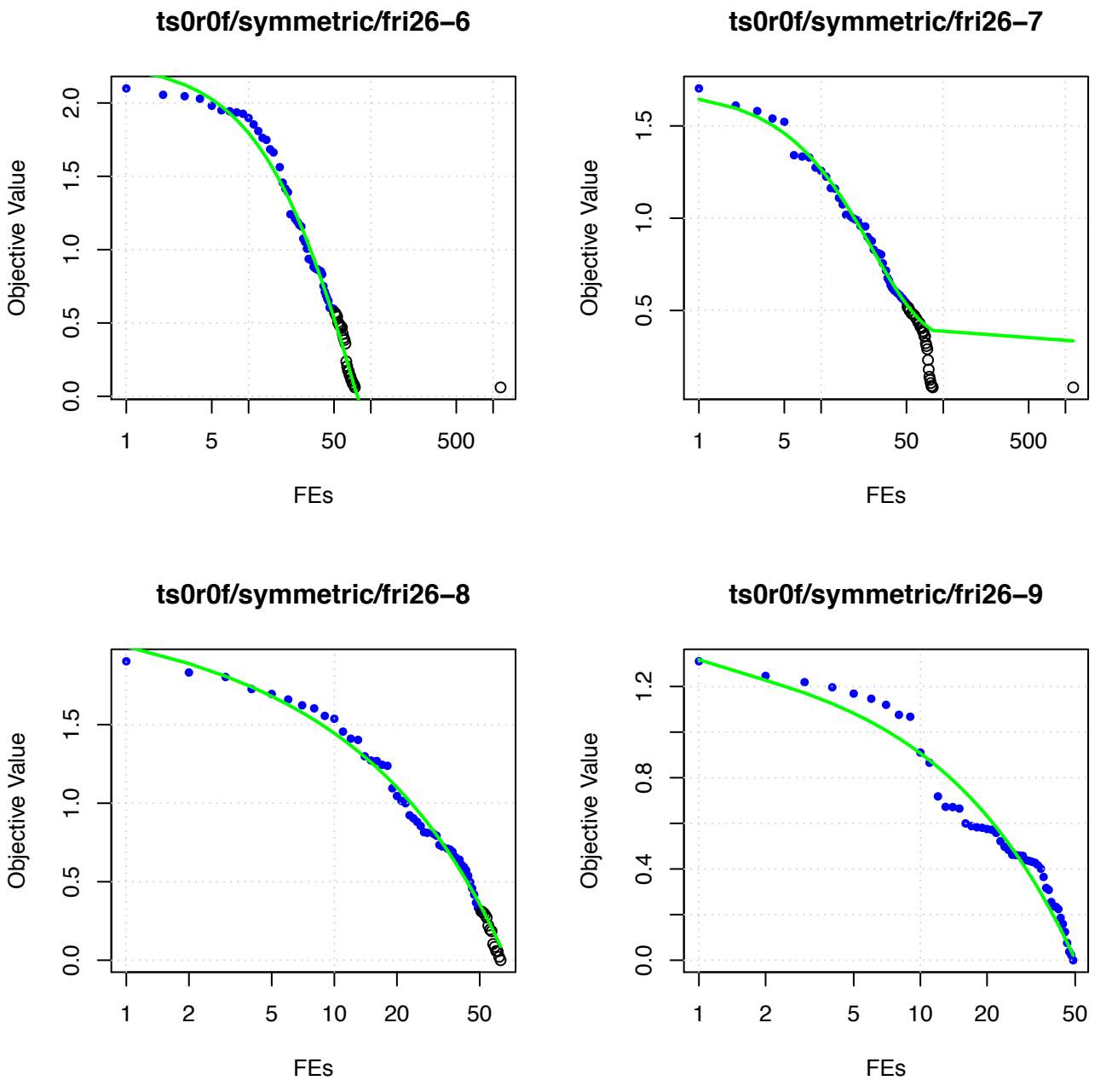

ts0r0f/symmetric/fri26−2
Objective Value
0.5
1.0
1.5
1
5
50
500
FEs

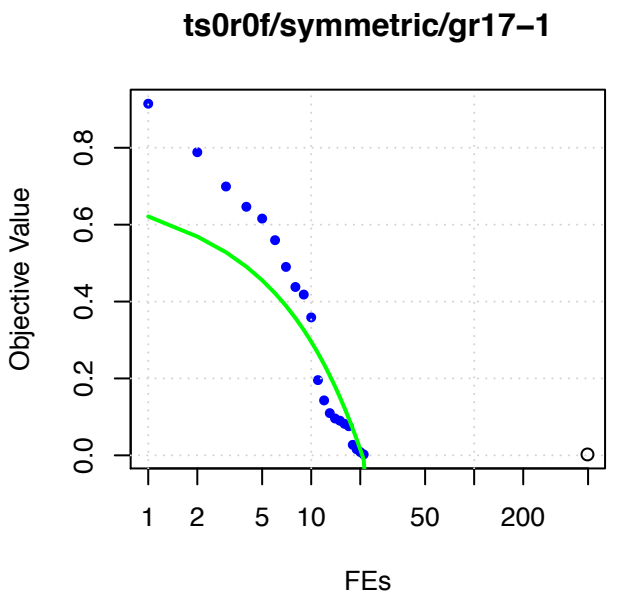

ts0r0f/symmetric/fri26−20
Objective Value
0.0
0.5
1.0
1.5
1
5
50
500
FEs


ts0r0f/symmetric/fri26−3
Objective Value
0.0
0.5
1.0
1.5
1
5
50
500
FEs


ts0r0f/symmetric/fri26−4
Objective Value
0.0
0.5
1.0
1.5
1
5
50
500
FEs


ts0r0f/symmetric/fri26−5
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts0r0f/symmetric/fri26−6
Objective Value
0.0
0.5
1.0
1.5
2.0
1
5
50
500
FEs
ts0r0f/symmetric/fri26−7
Objective Value
0.5
1.0
1.5
1
5
50
500
FEs
ts0r0f/symmetric/fri26−8
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
FEs
ts0r0f/symmetric/fri26−9
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts0r0f/symmetric/gr17−1
Objective Value
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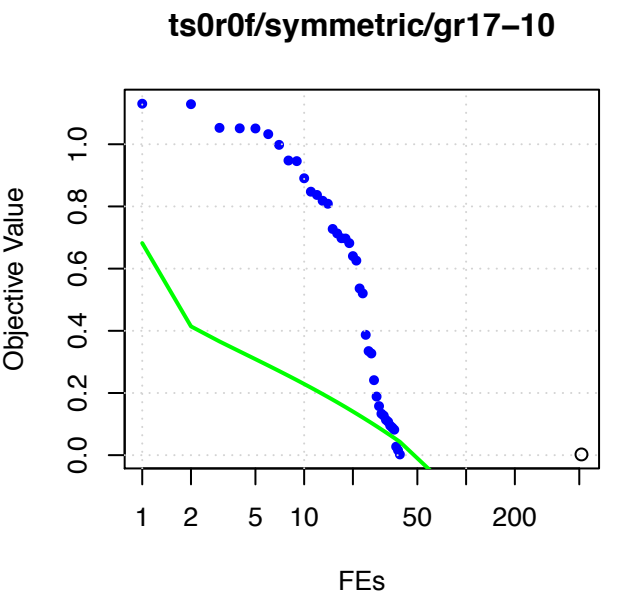
0.2
0.4
0.6
0.8
1
2
5
10
50
200
FEs


ts0r0f/symmetric/gr17−10
Objective Value
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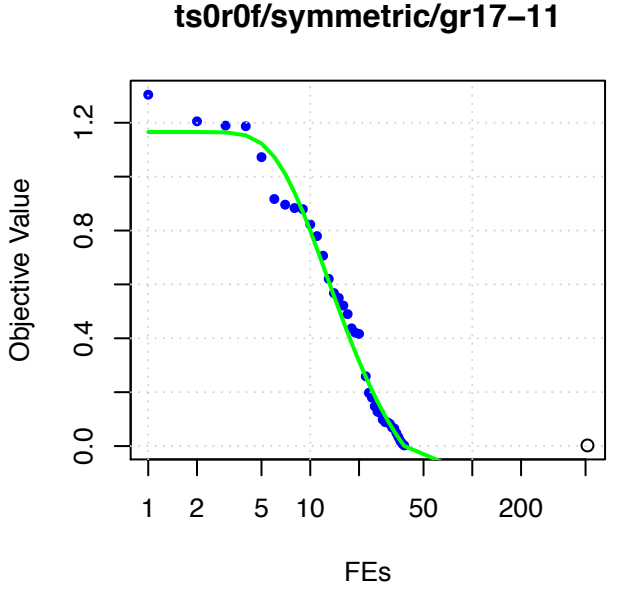
0.2
0.4
0.6
0.8
1.0
1
2
5
10
50
200
FEs


ts0r0f/symmetric/gr17−11
Objective Value
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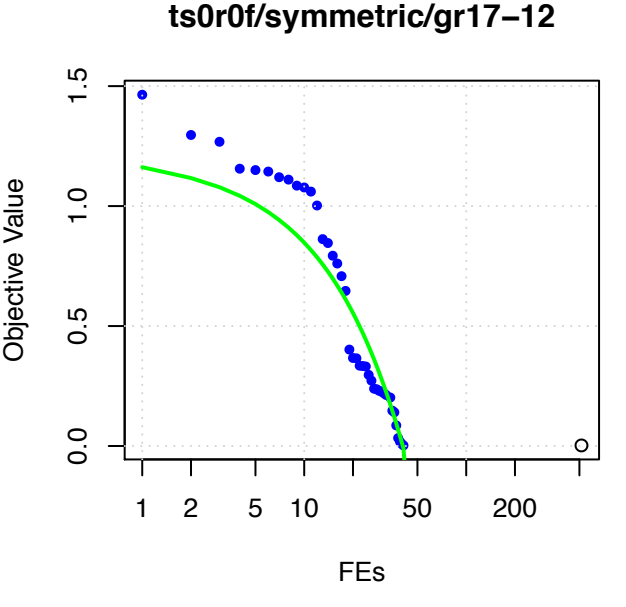
0.4
0.8
1.2
1
2
5
10
50
200
FEs


ts0r0f/symmetric/gr17−12
Objective Value
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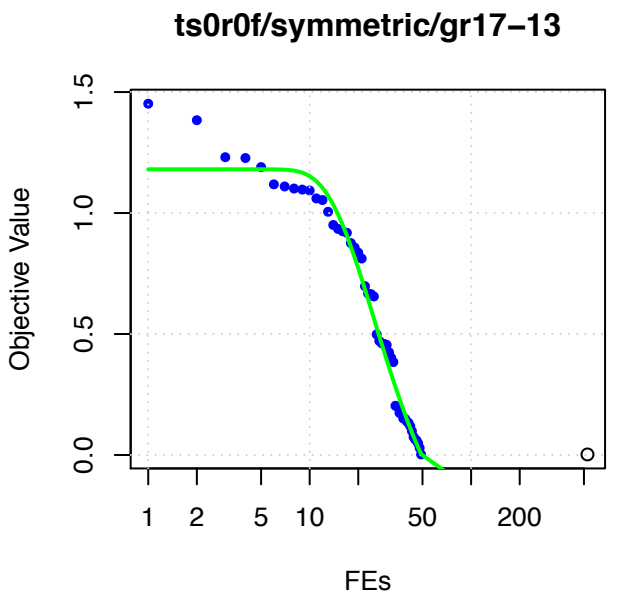
1.0
1.5
1
2
5
10
50
200
FEs


ts0r0f/symmetric/gr17−13
Objective Value
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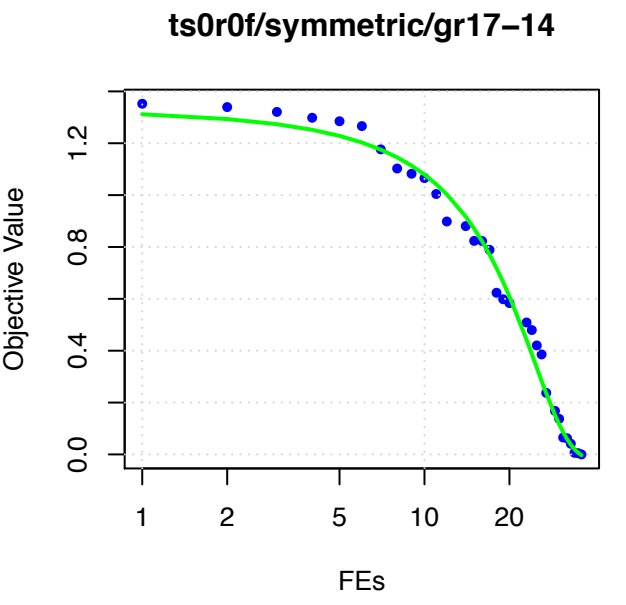
0.5
1.0
1.5
1
2
5
10
50
200
FEs


ts0r0f/symmetric/gr17−14
Objective Value
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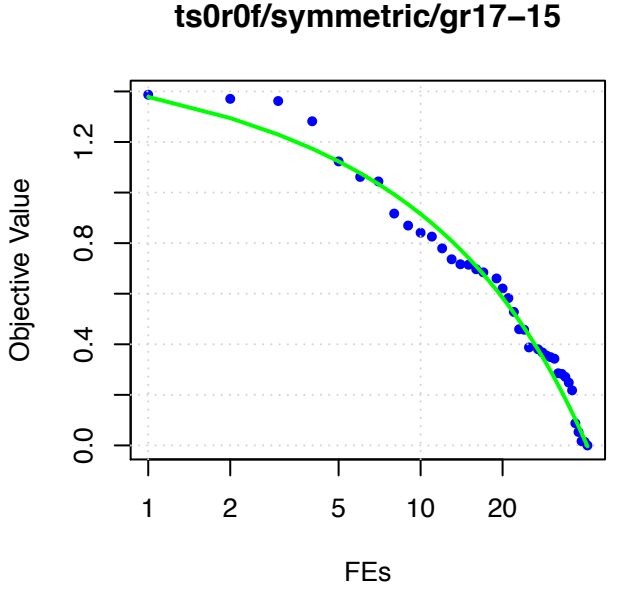
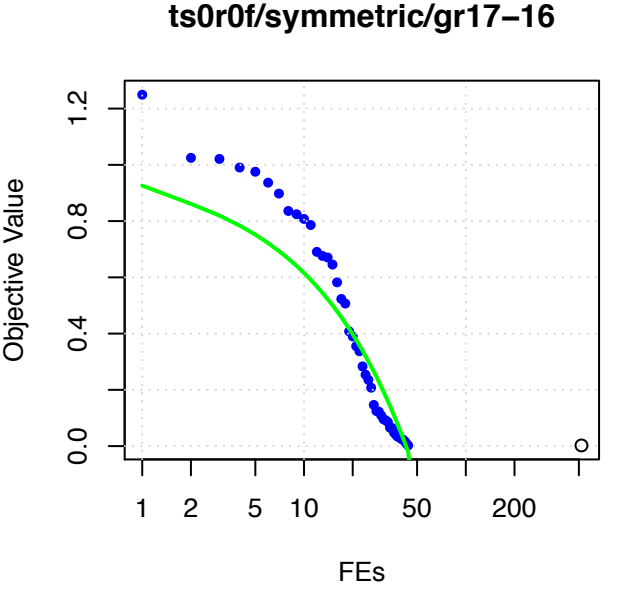
0.4
0.8
1.2
1
2
5
10
20
FEs


ts0r0f/symmetric/gr17−15
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
20
FEs


ts0r0f/symmetric/gr17−16
Objective Value
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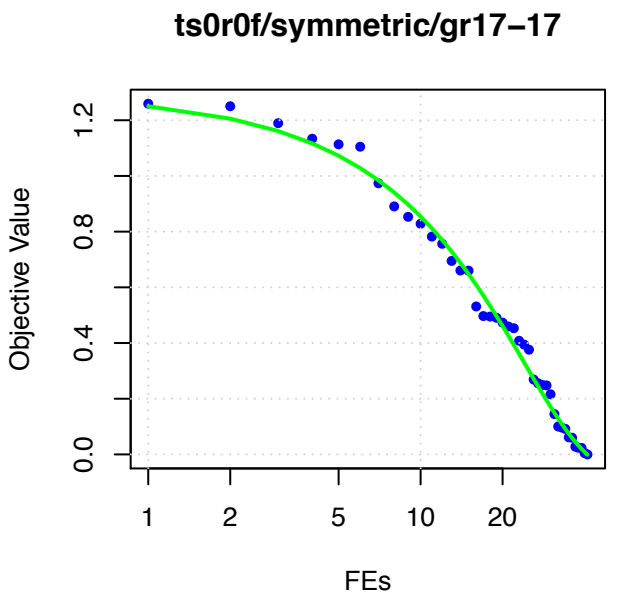
0.4
0.8
1.2
1
2
5
10
50
200
FEs


ts0r0f/symmetric/gr17−17
Objective Value
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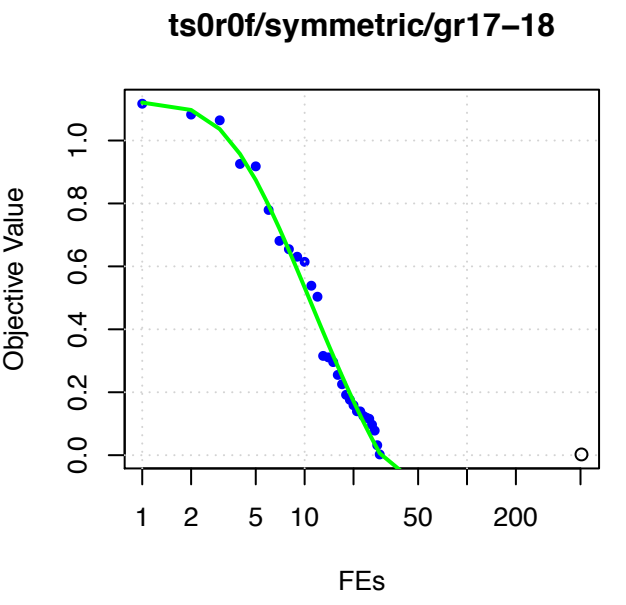
0.4
0.8
1.2
1
2
5
10
20
FEs


ts0r0f/symmetric/gr17−18
Objective Value
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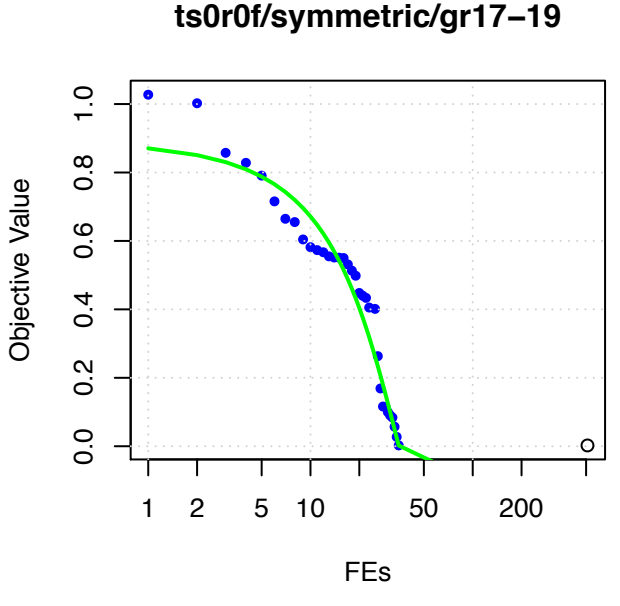
0.2
0.4
0.6
0.8
1.0
1
2
5
10
50
200
FEs


ts0r0f/symmetric/gr17−19
Objective Value
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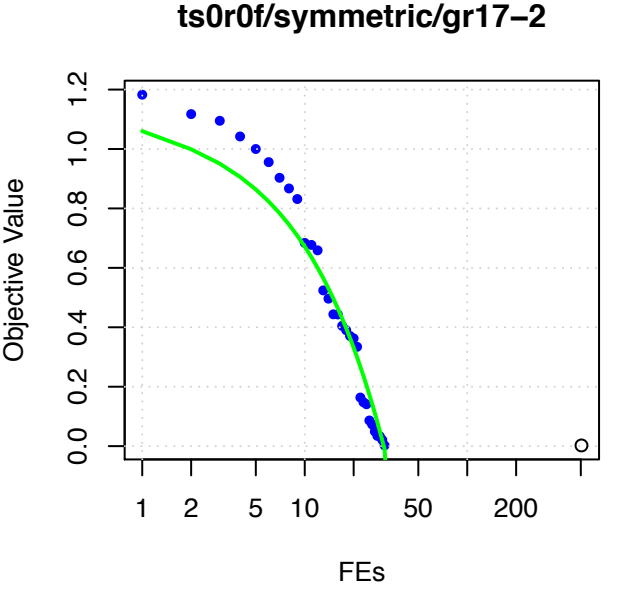
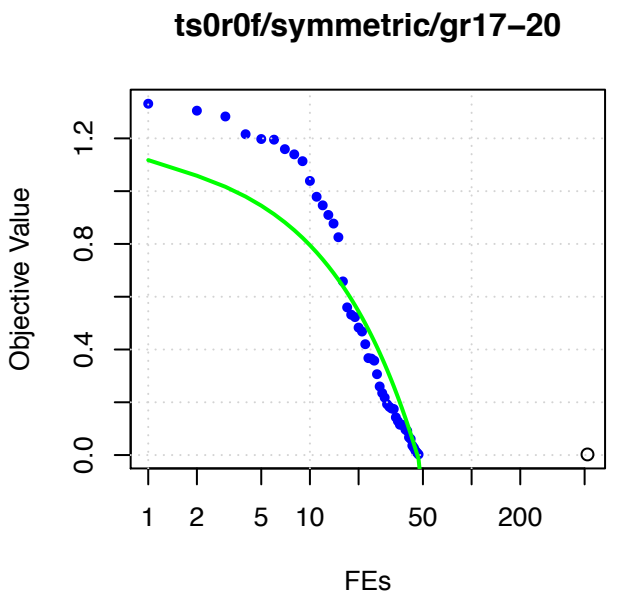
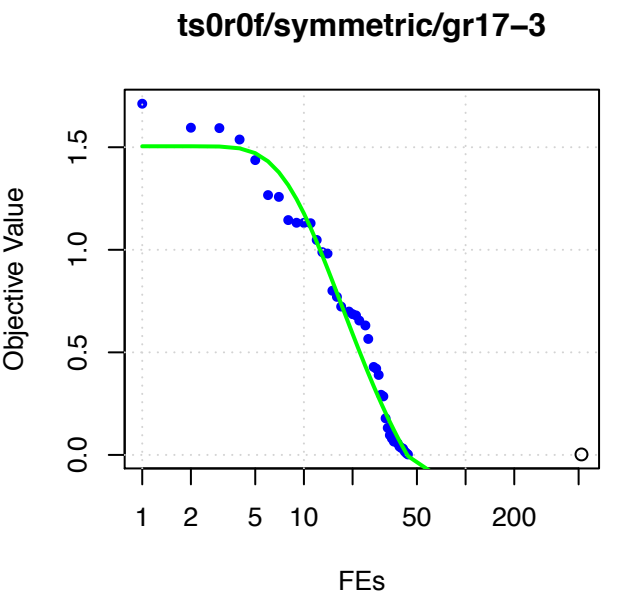
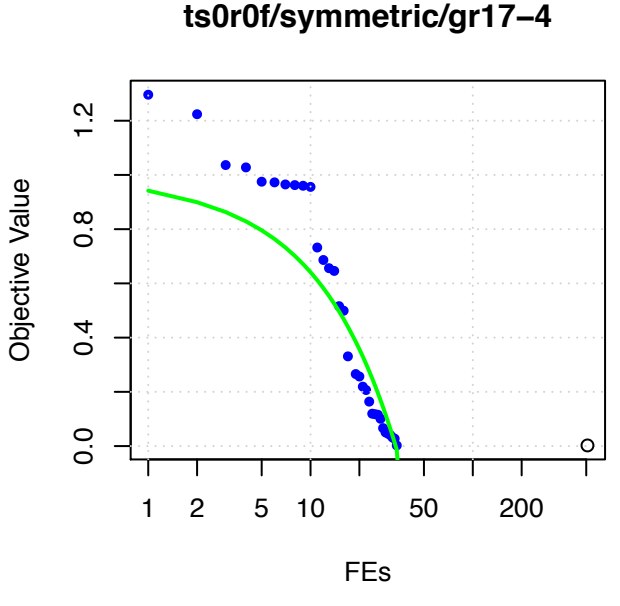
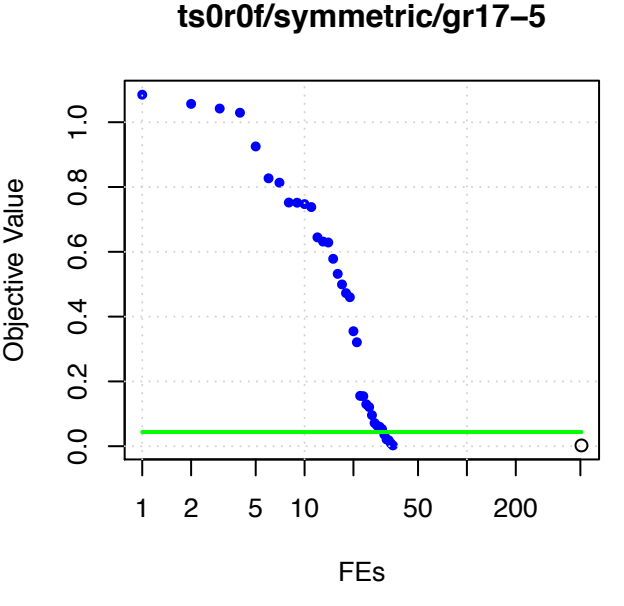
0.2
0.4
0.6
0.8
1.0
1
2
5
10
50
200
FEs

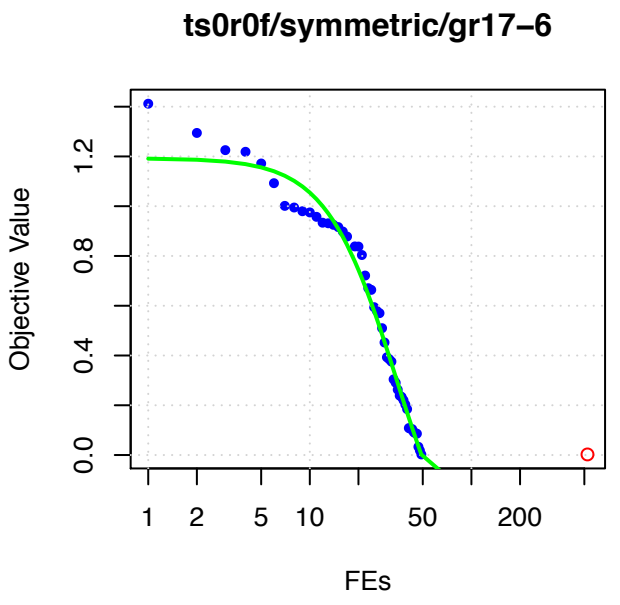

ts0r0f/symmetric/gr17−2
Objective Value
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1
2
5
10
50
200
FEs


ts0r0f/symmetric/gr17−20
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
50
200
FEs


ts0r0f/symmetric/gr17−3
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
50
200
FEs


ts0r0f/symmetric/gr17−4
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
50
200
FEs


ts0r0f/symmetric/gr17−5
Objective Value
0.0
0.2
0.4
0.6
0.8
1.0
1
2
5
10
50
200
FEs


ts0r0f/symmetric/gr17−6
Objective Value
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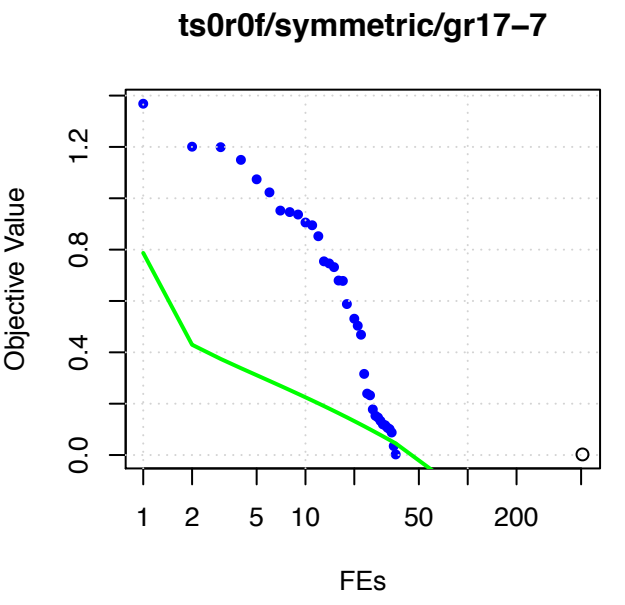
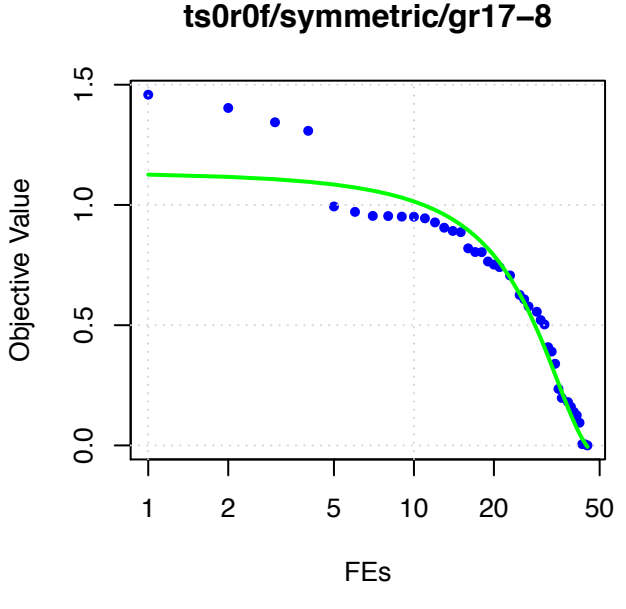
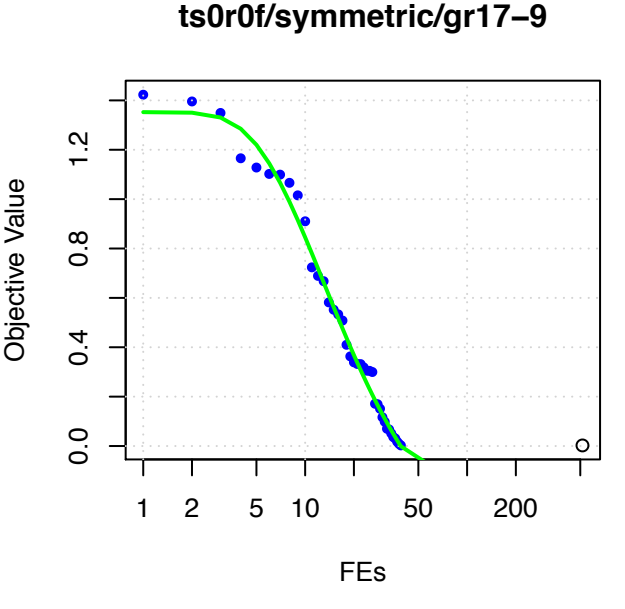
0.4
0.8
1.2
1
2
5
10
50
200
FEs


ts0r0f/symmetric/gr17−7
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
50
200
FEs


ts0r0f/symmetric/gr17−8
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts0r0f/symmetric/gr17−9
Objective Value
0.0
0.4
0.8
1.2
1
2
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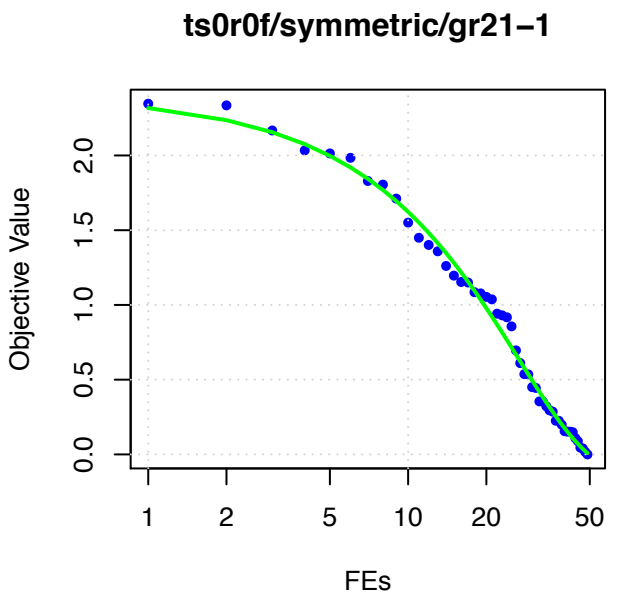
10
50
200
FEs


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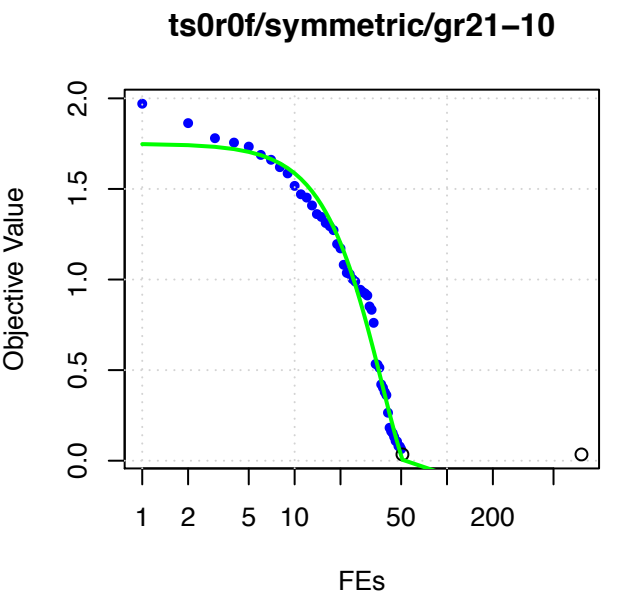
0.5
1.0
1.5
2.0
1
2
5
10
20
50
FEs


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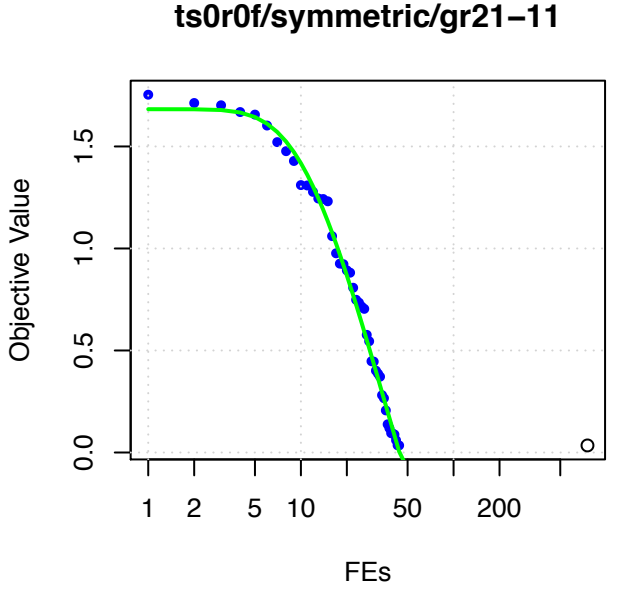
0.5
1.0
1.5
2.0
1
2
5
10
50
200
FEs


ts0r0f/symmetric/gr21−11
Objective Value
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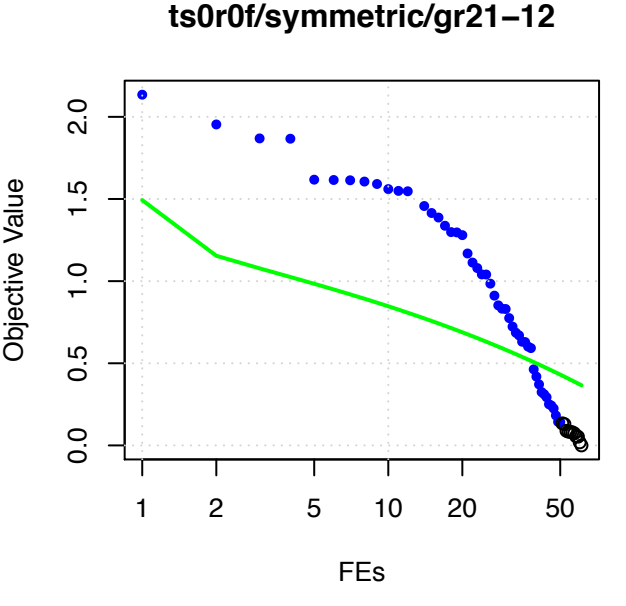
0.5
1.0
1.5
1
2
5
10
50
200
FEs


ts0r0f/symmetric/gr21−12
Objective Value
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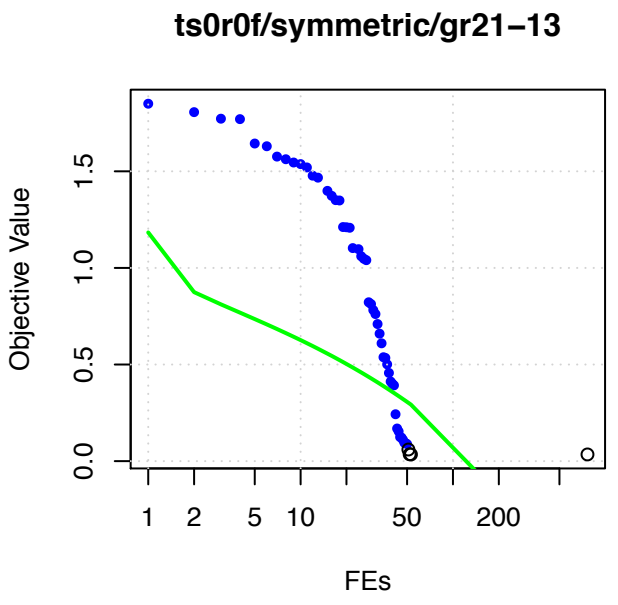
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts0r0f/symmetric/gr21−13
Objective Value
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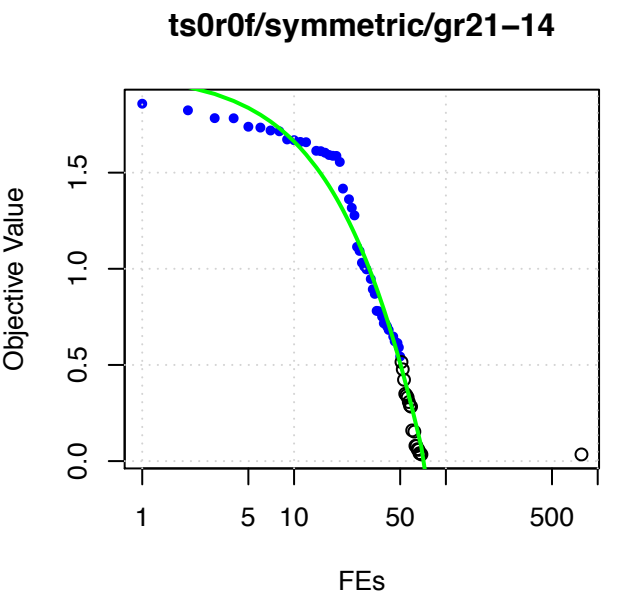
0.5
1.0
1.5
1
2
5
10
50
200
FEs


ts0r0f/symmetric/gr21−14
Objective Value
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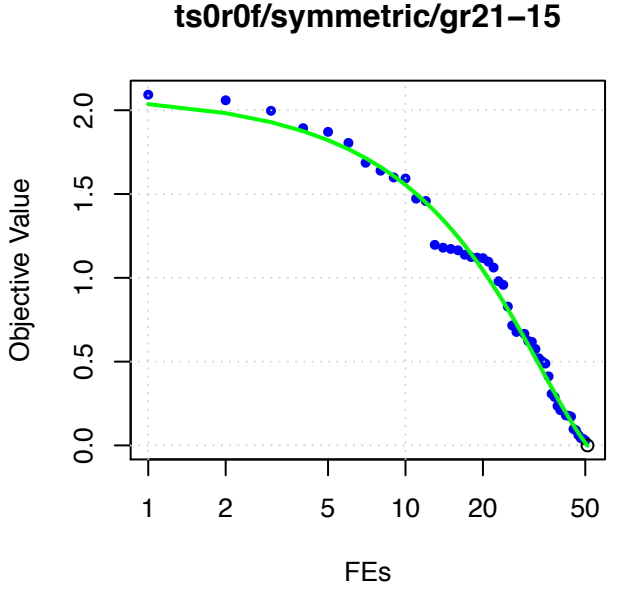
1.0
1.5
1
5
10
50
500
FEs


ts0r0f/symmetric/gr21−15
Objective Value
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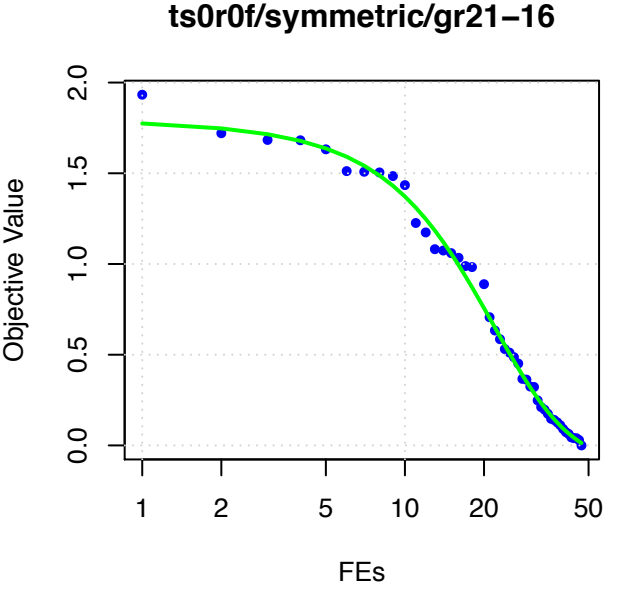
0.5
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts0r0f/symmetric/gr21−16
Objective Value
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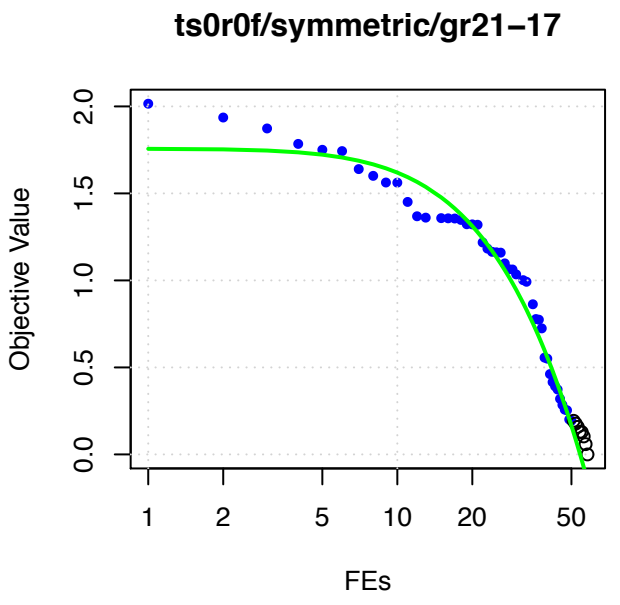
0.5
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts0r0f/symmetric/gr21−17
Objective Value
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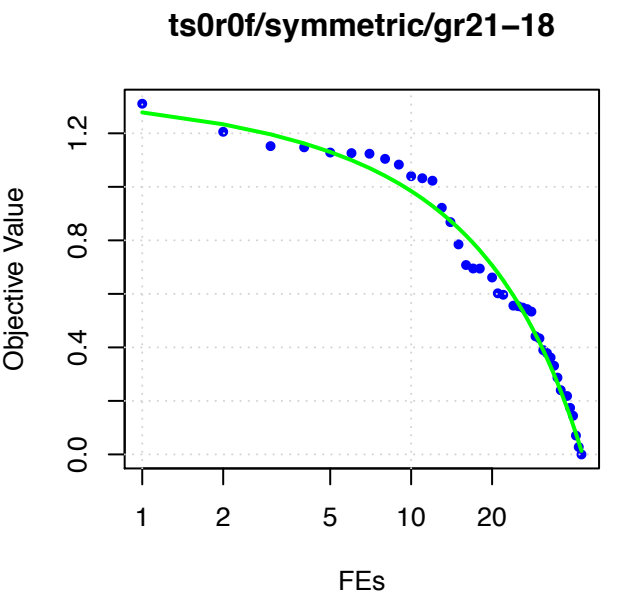
0.5
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts0r0f/symmetric/gr21−18
Objective Value
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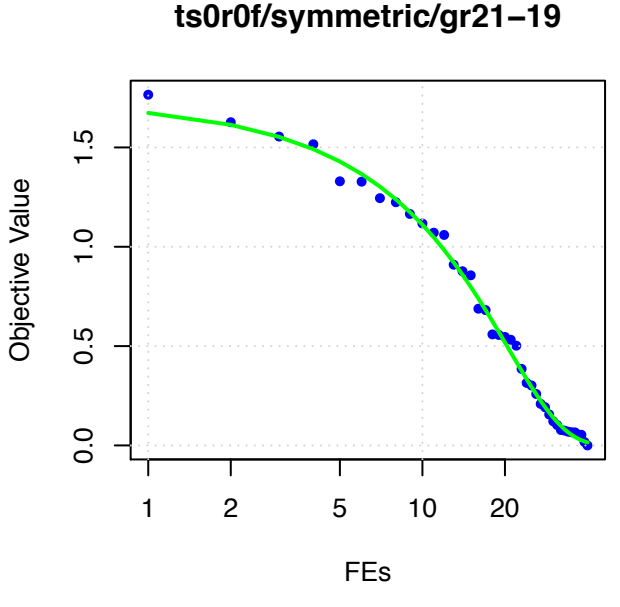
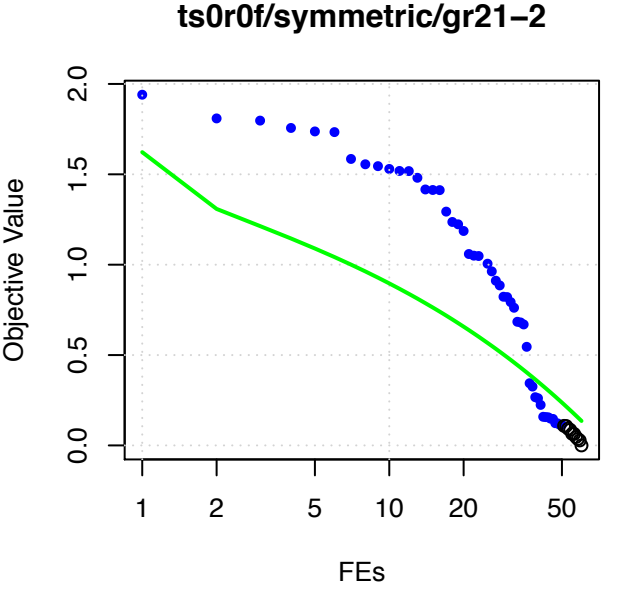
0.4
0.8
1.2
1
2
5
10
20
FEs


ts0r0f/symmetric/gr21−19
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
FEs


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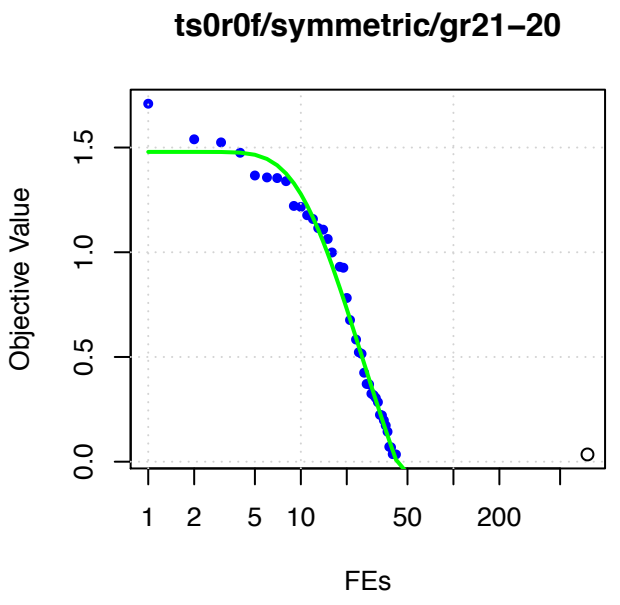
0.5
1.0
1.5
2.0
1
2
5
10
20
50
FEs


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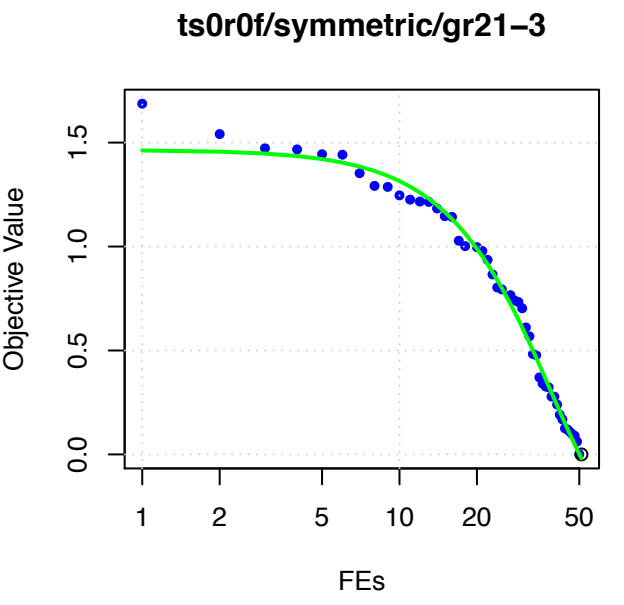
0.5
1.0
1.5
1
2
5
10
50
200
FEs


ts0r0f/symmetric/gr21−3
Objective Value
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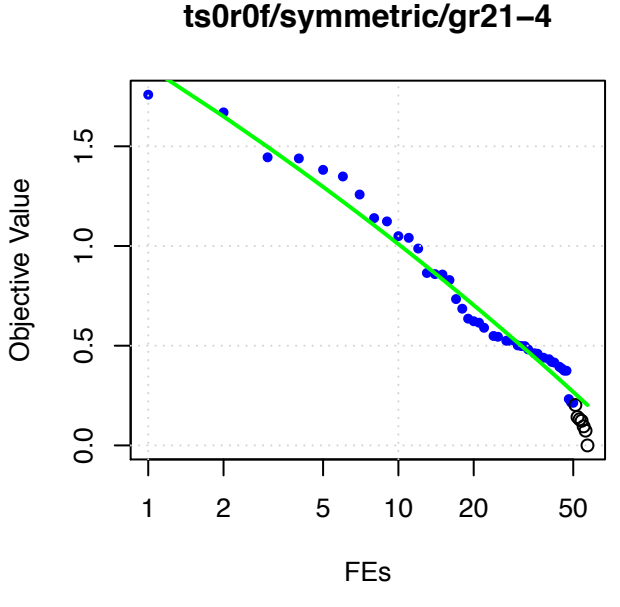
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts0r0f/symmetric/gr21−4
Objective Value
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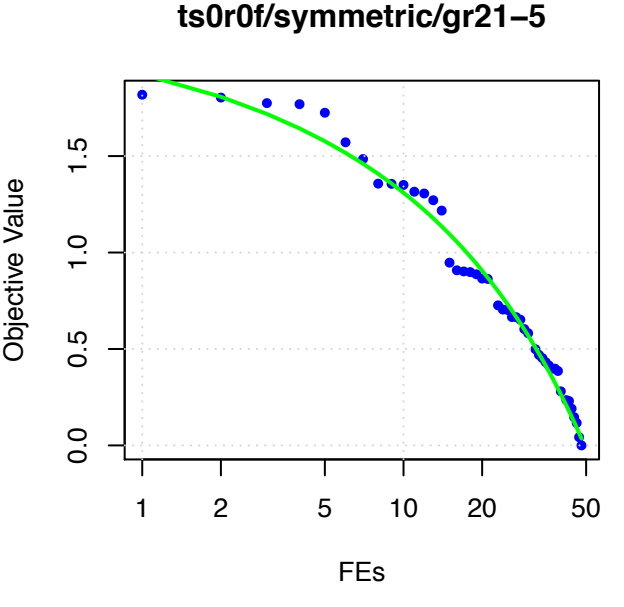
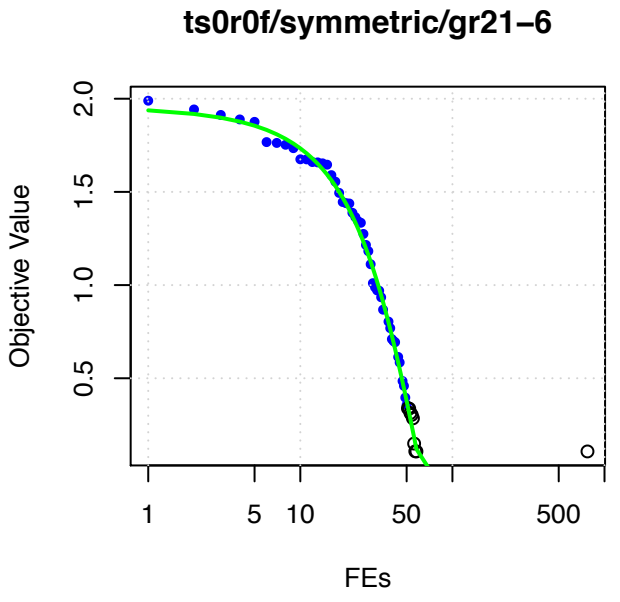
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts0r0f/symmetric/gr21−5
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts0r0f/symmetric/gr21−6
Objective Value
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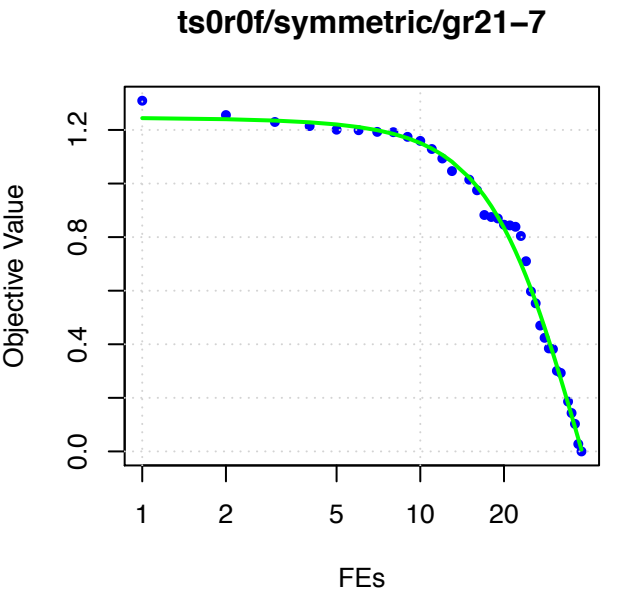
1.0
1.5
2.0
1
5
10
50
500
FEs


ts0r0f/symmetric/gr21−7
Objective Value
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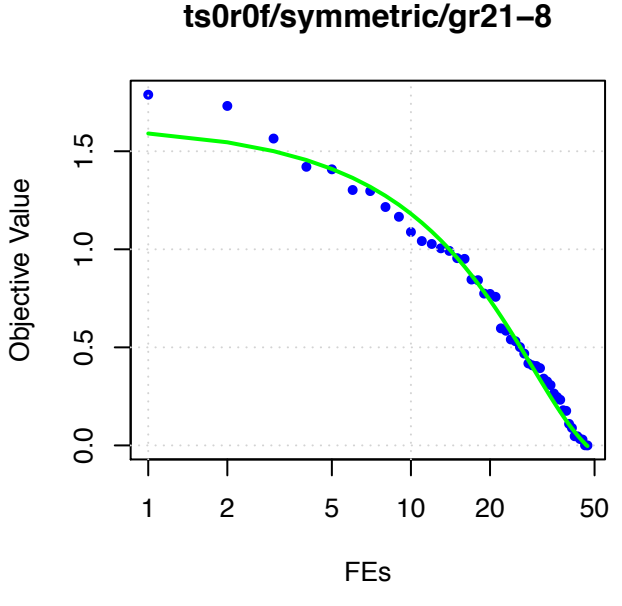
0.4
0.8
1.2
1
2
5
10
20
FEs


ts0r0f/symmetric/gr21−8
Objective Value
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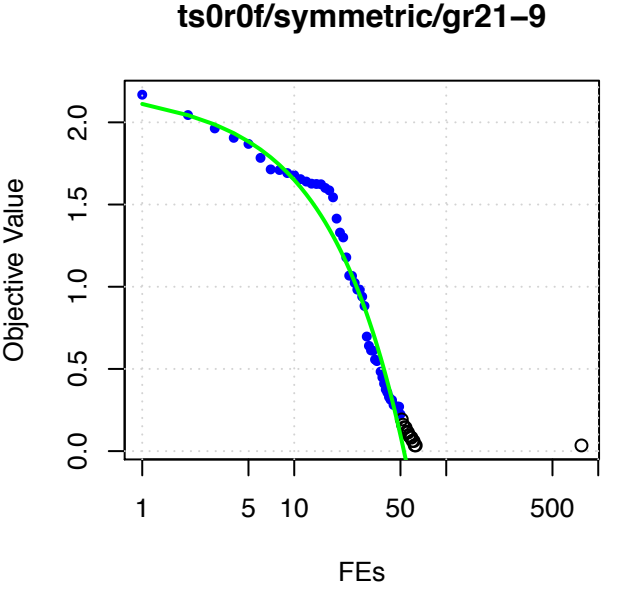
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts0r0f/symmetric/gr21−9
Objective Value
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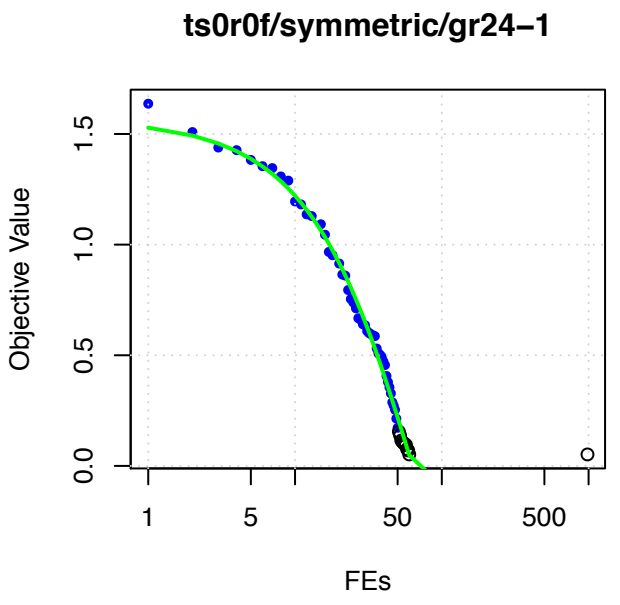
1.0
1.5
2.0
1
5
10
50
500
FEs


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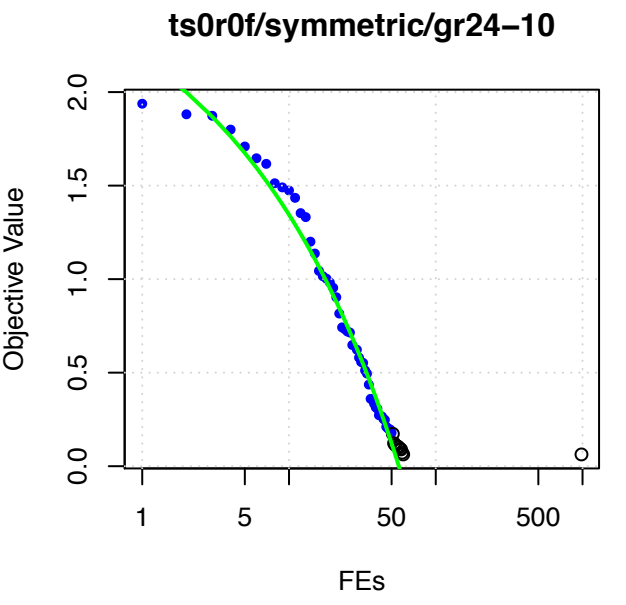
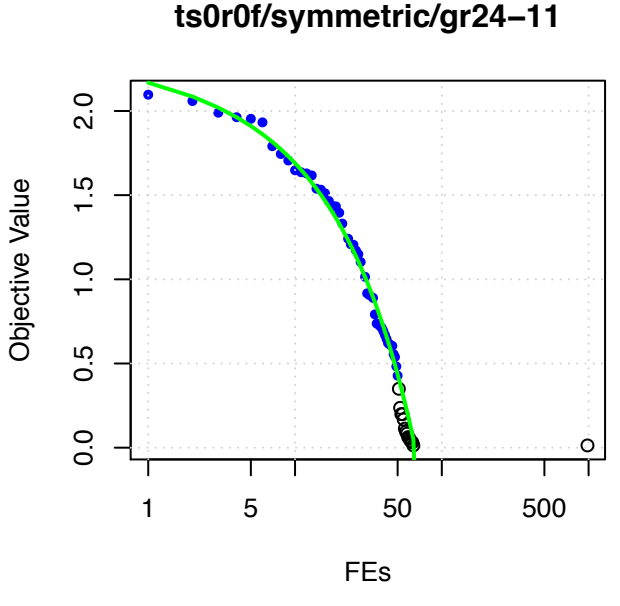
0.5
1.0
1.5
1
5
50
500
FEs


ts0r0f/symmetric/gr24−10
Objective Value
0.0
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/gr24−11
Objective Value
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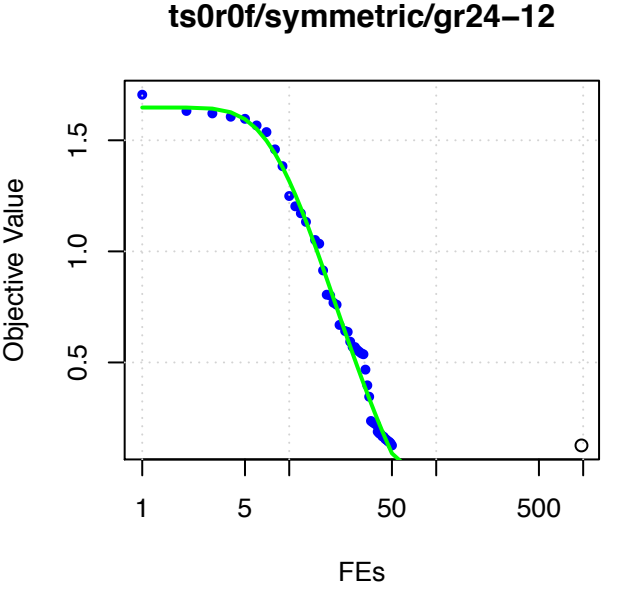
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/gr24−12
Objective Value
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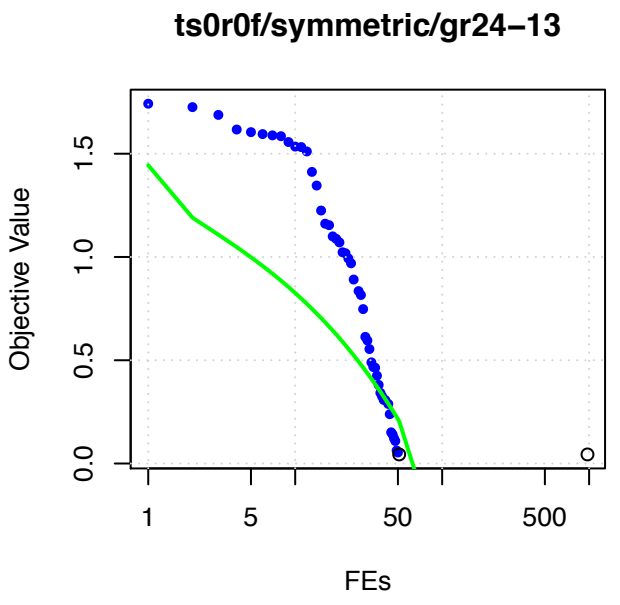
1.0
1.5
1
5
50
500
FEs


ts0r0f/symmetric/gr24−13
Objective Value
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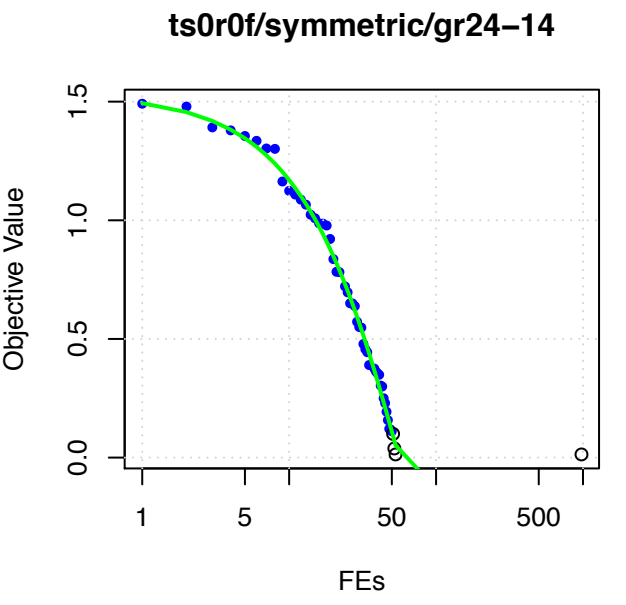
1.0
1.5
1
5
50
500
FEs


ts0r0f/symmetric/gr24−14
Objective Value
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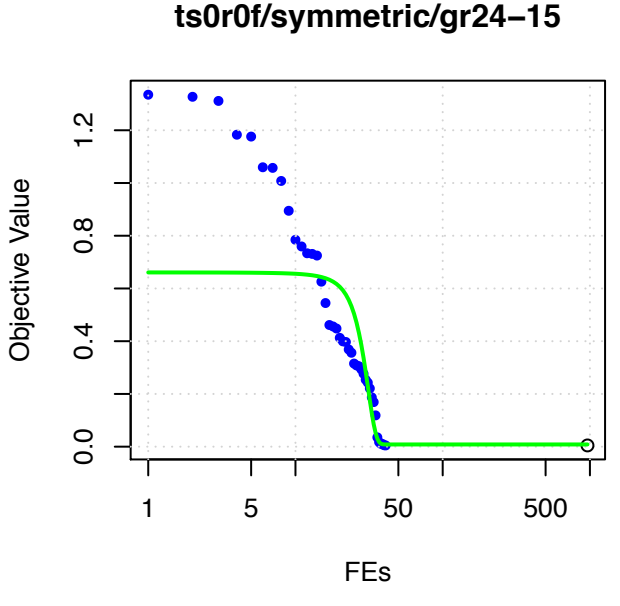
1.0
1.5
1
5
50
500
FEs


ts0r0f/symmetric/gr24−15
Objective Value
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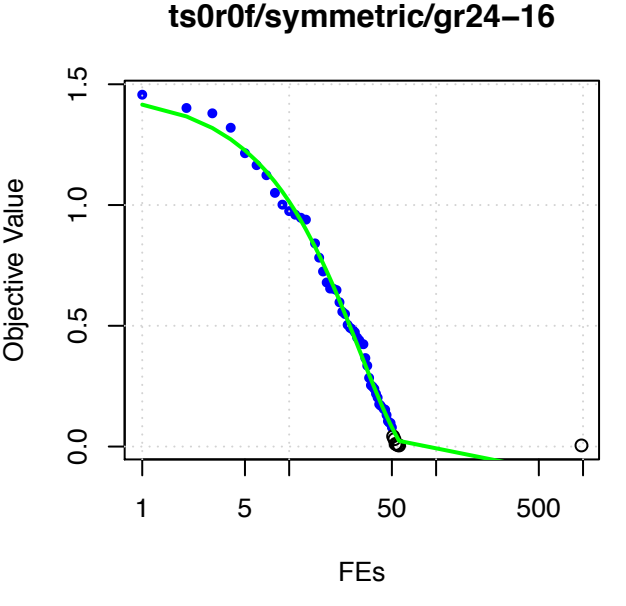
0.8
1.2
1
5
50
500
FEs


ts0r0f/symmetric/gr24−16
Objective Value
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1.0
1.5
1
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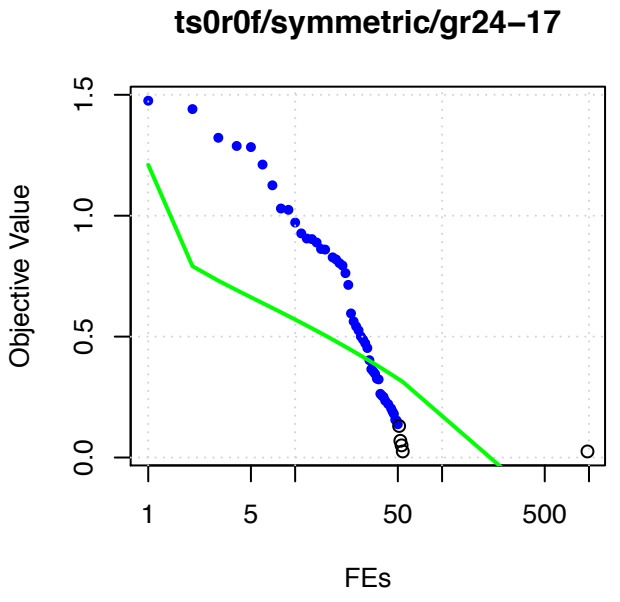
50
500
FEs


ts0r0f/symmetric/gr24−17
Objective Value
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1.0
1.5
1
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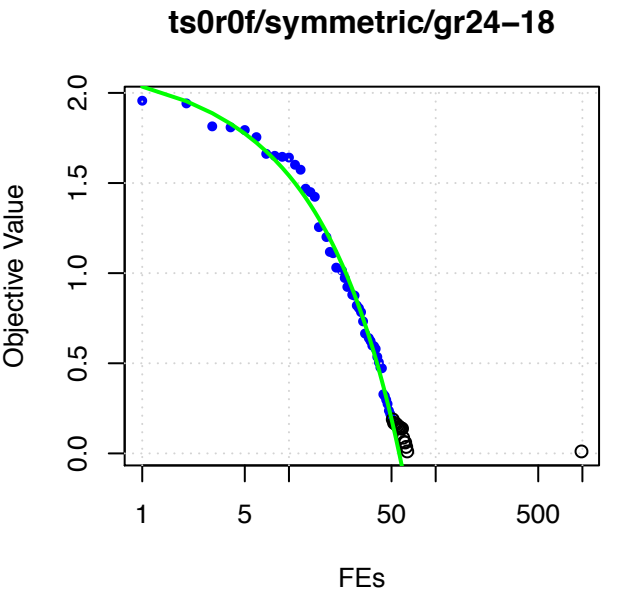
50
500
FEs


ts0r0f/symmetric/gr24−18
Objective Value
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1.0
1.5
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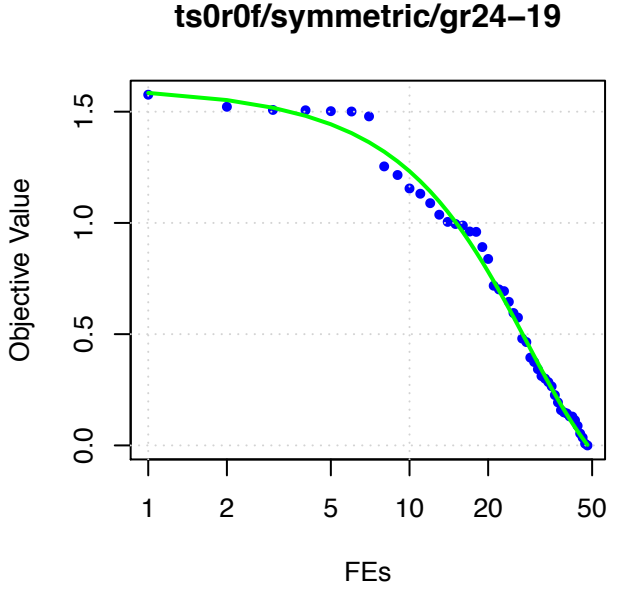
1
5
50
500
FEs


ts0r0f/symmetric/gr24−19
Objective Value
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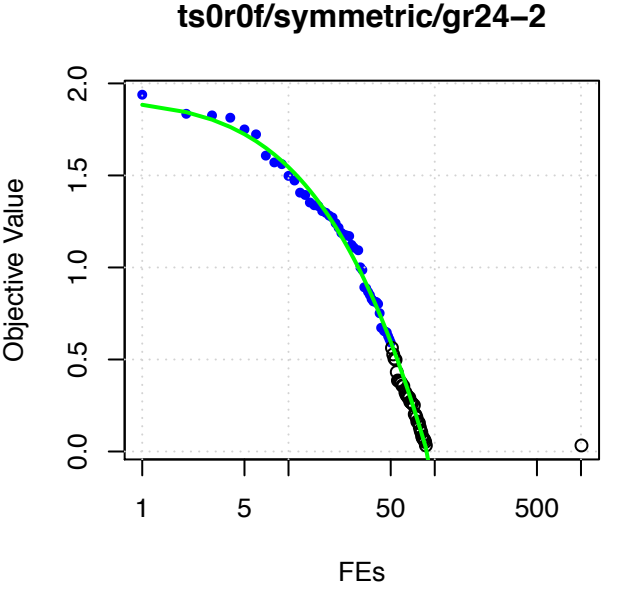
1.0
1.5
1
2
5
10
20
50
FEs


ts0r0f/symmetric/gr24−2
Objective Value
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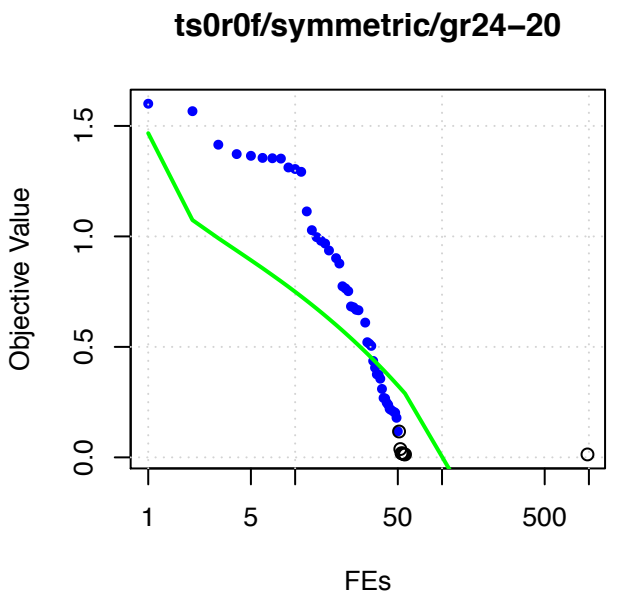
1.0
1.5
2.0
1
5
50
500
FEs


ts0r0f/symmetric/gr24−20
Objective Value
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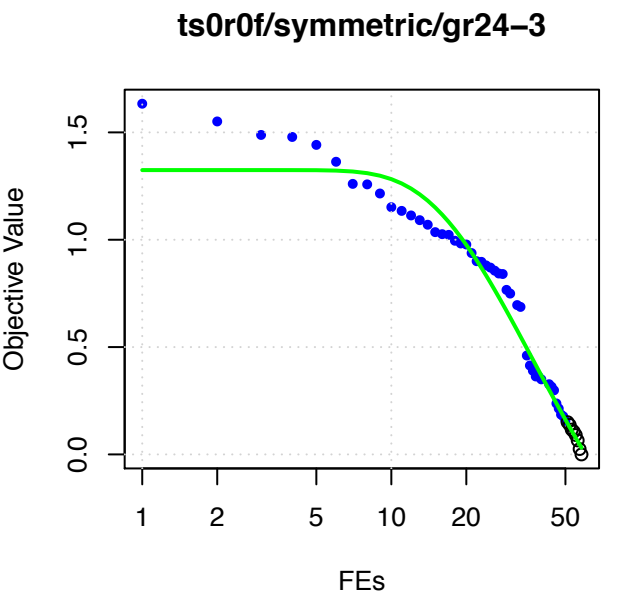
0.5
1.0
1.5
1
5
50
500
FEs


ts0r0f/symmetric/gr24−3
Objective Value
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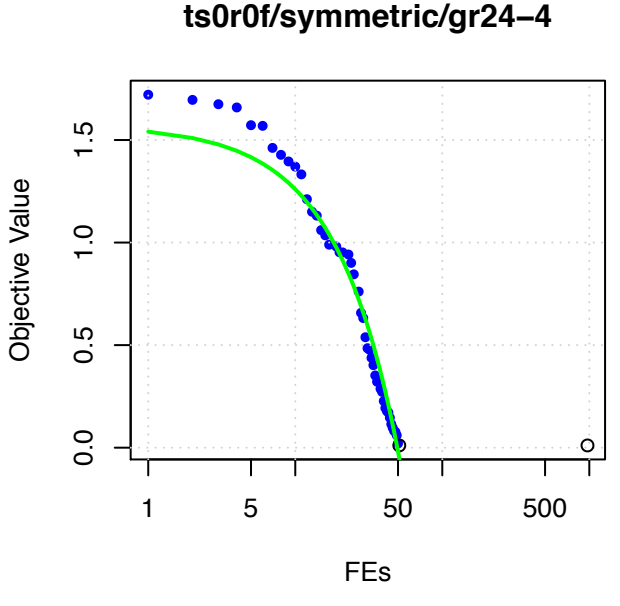
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts0r0f/symmetric/gr24−4
Objective Value
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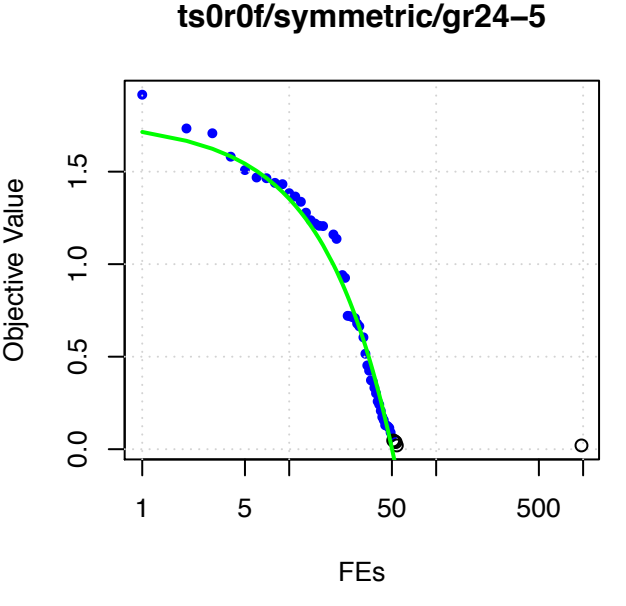
0.5
1.0
1.5
1
5
50
500
FEs


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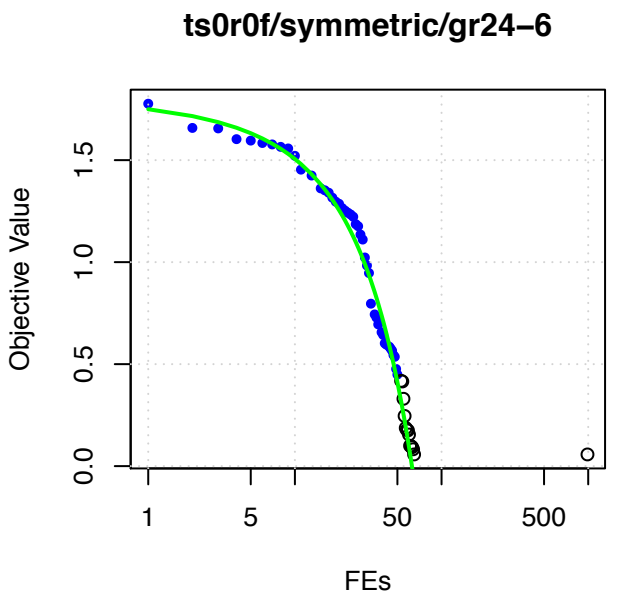
0.5
1.0
1.5
1
5
50
500
FEs


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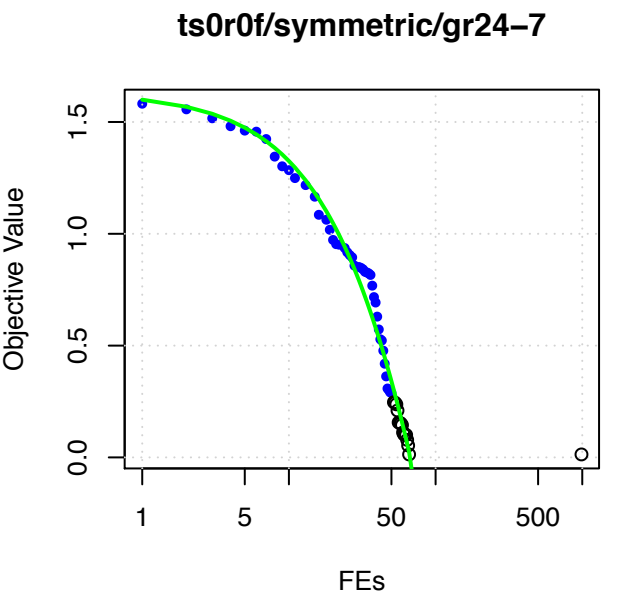
0.5
1.0
1.5
1
5
50
500
FEs


ts0r0f/symmetric/gr24−7
Objective Value
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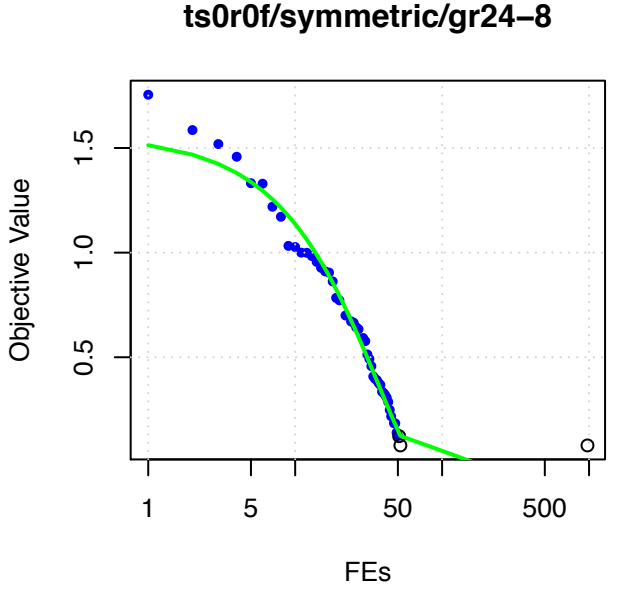
1.0
1.5
1
5
50
500
FEs


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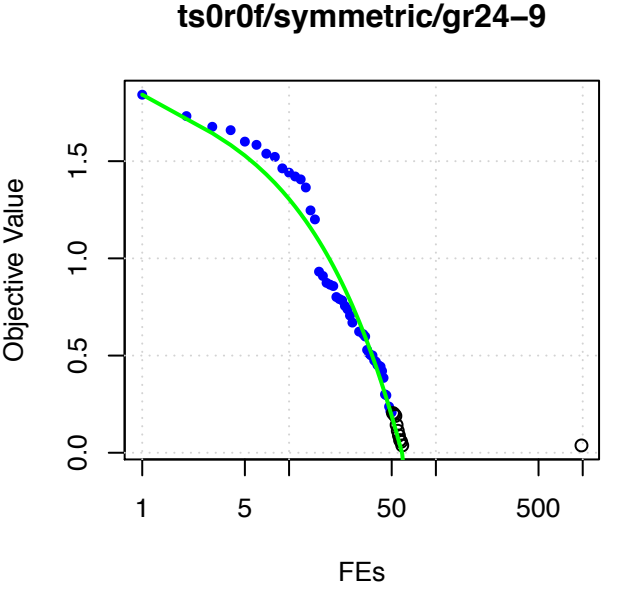
1.0
1.5
1
5
50
500
FEs


ts0r0f/symmetric/gr24−9
Objective Value
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0.5
1.0
1.5
1
5
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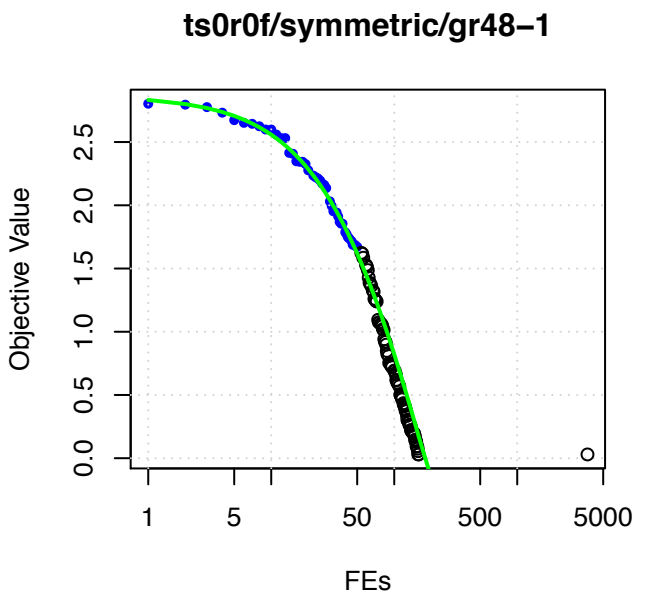
500
FEs


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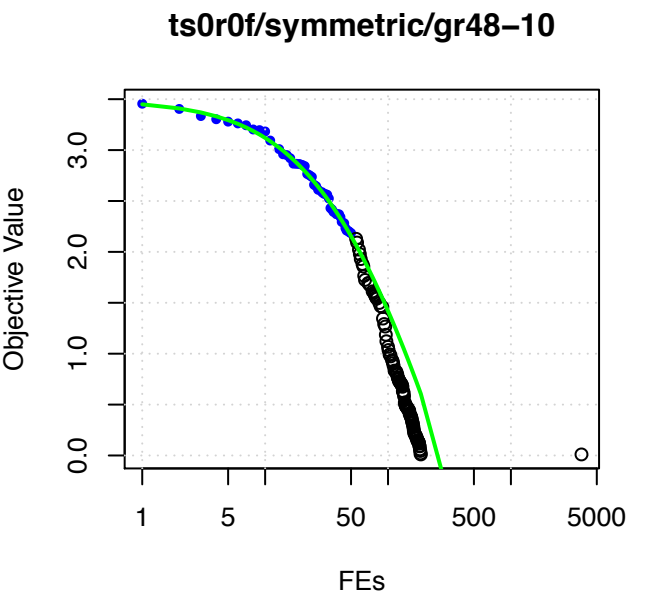
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0f/symmetric/gr48−10
Objective Value
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3.0
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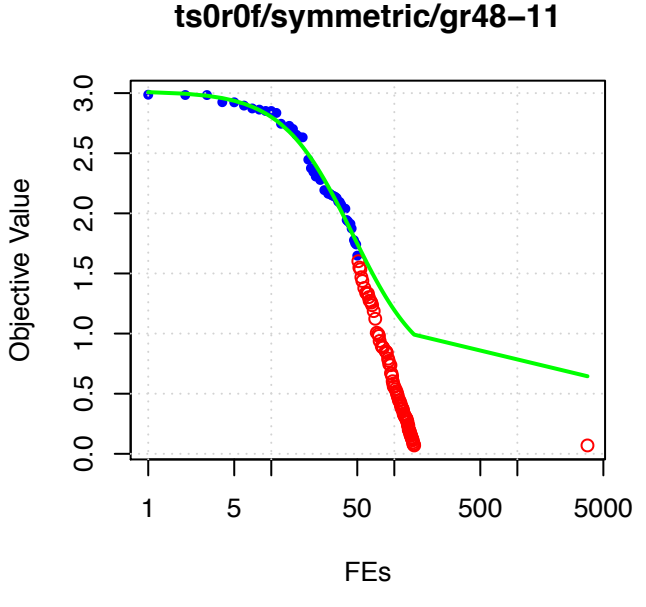
500
5000
FEs


ts0r0f/symmetric/gr48−11
Objective Value
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1.5
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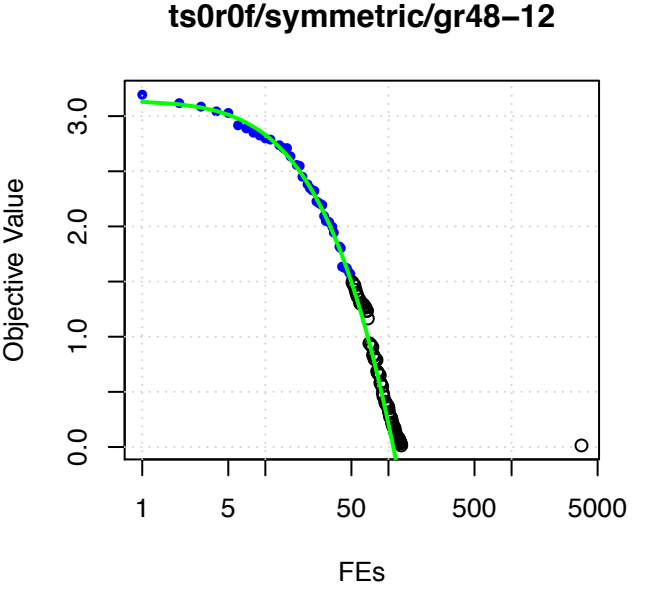
2.5
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/gr48−12
Objective Value
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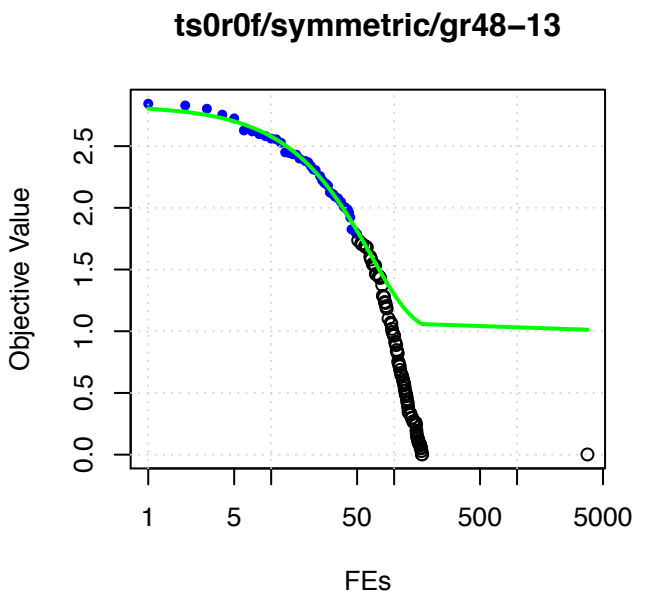
50
500
5000
FEs


ts0r0f/symmetric/gr48−13
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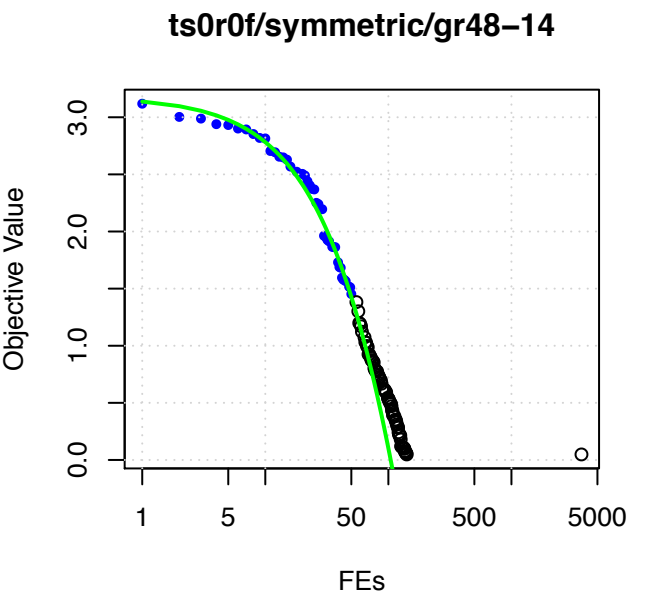
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0f/symmetric/gr48−14
Objective Value
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2.0
3.0
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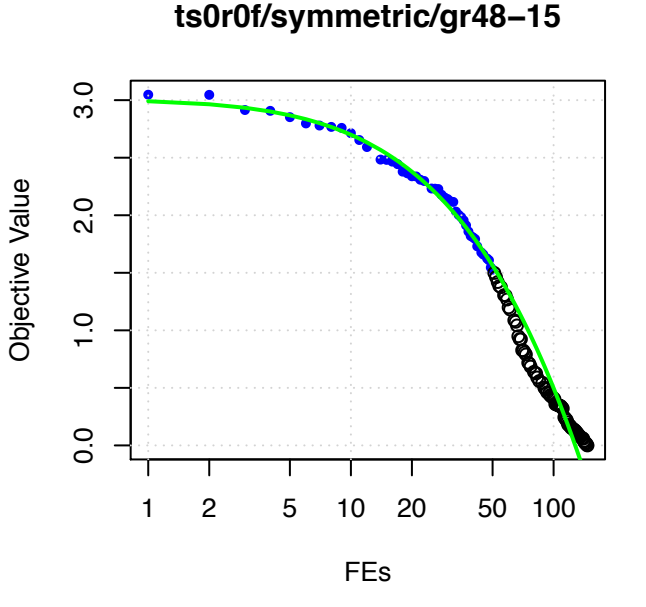
50
500
5000
FEs


ts0r0f/symmetric/gr48−15
Objective Value
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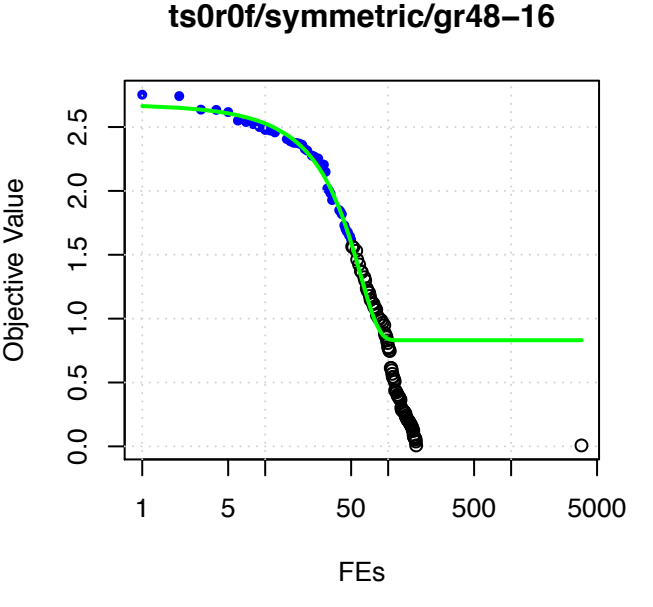
2.0
3.0
1
2
5
10
20
50
100
FEs


ts0r0f/symmetric/gr48−16
Objective Value
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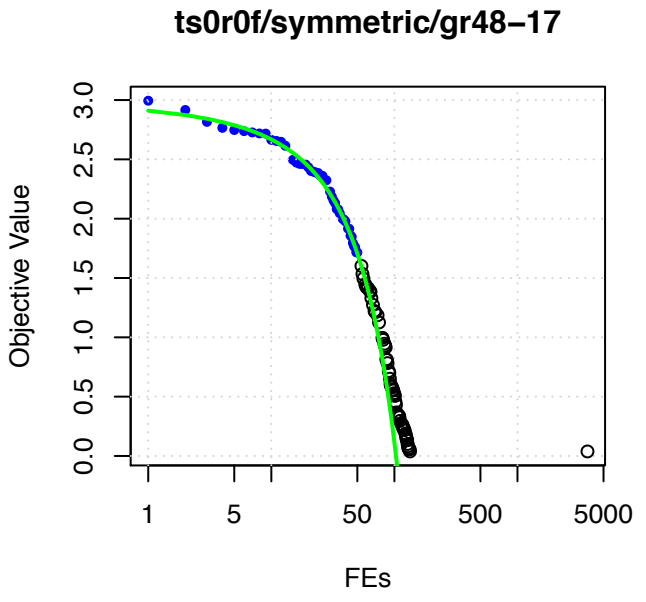
0.5
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


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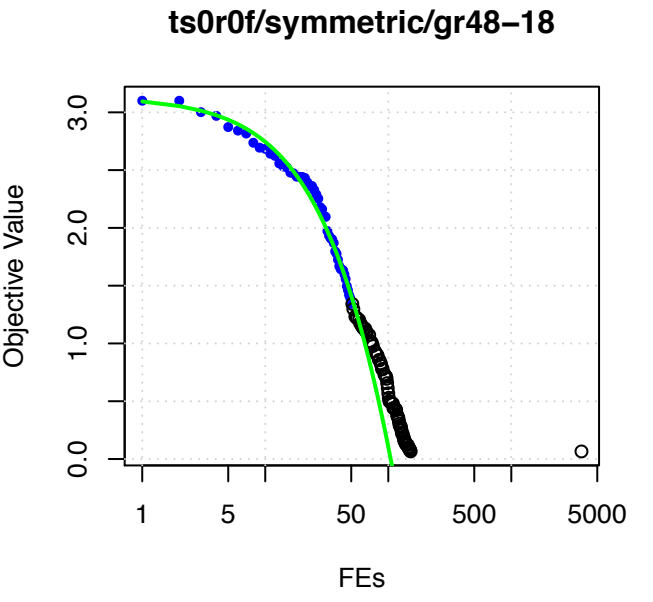
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/gr48−18
Objective Value
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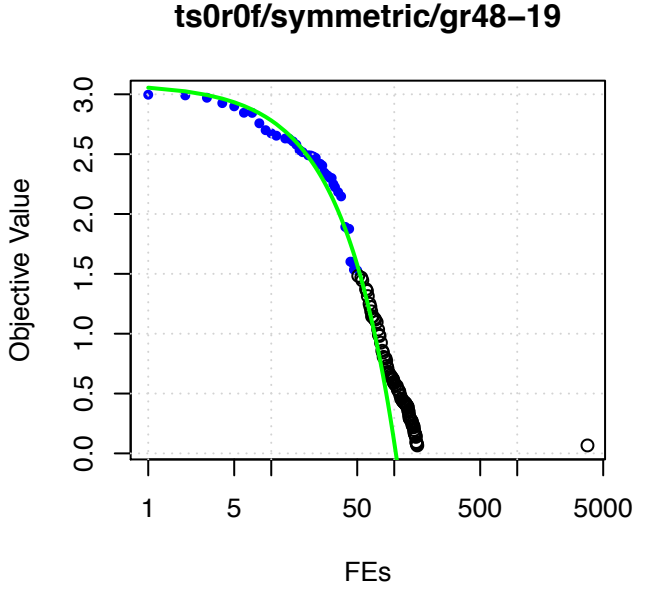
1.0
2.0
3.0
1
5
50
500
5000
FEs


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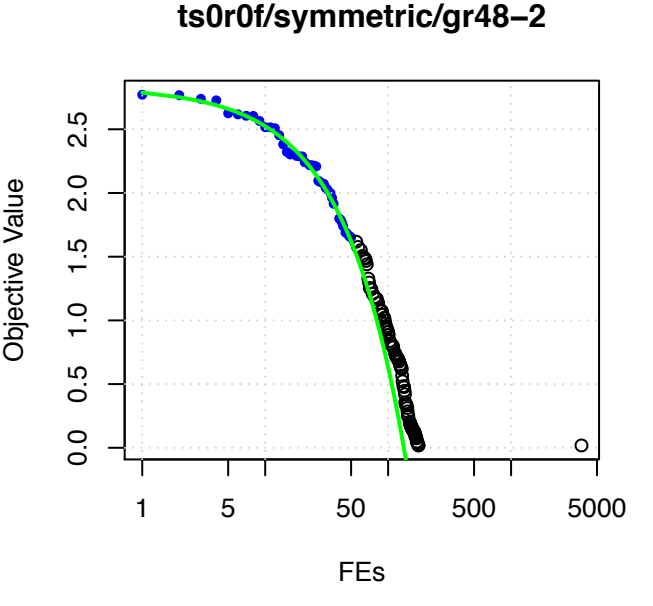
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/gr48−2
Objective Value
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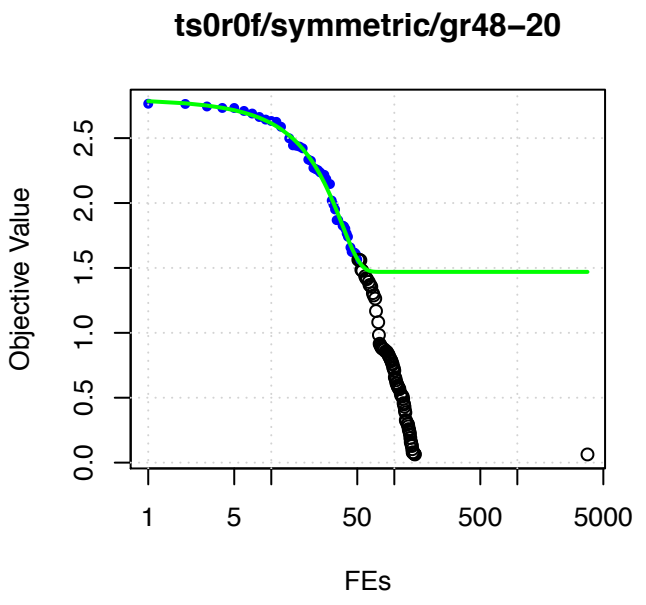
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


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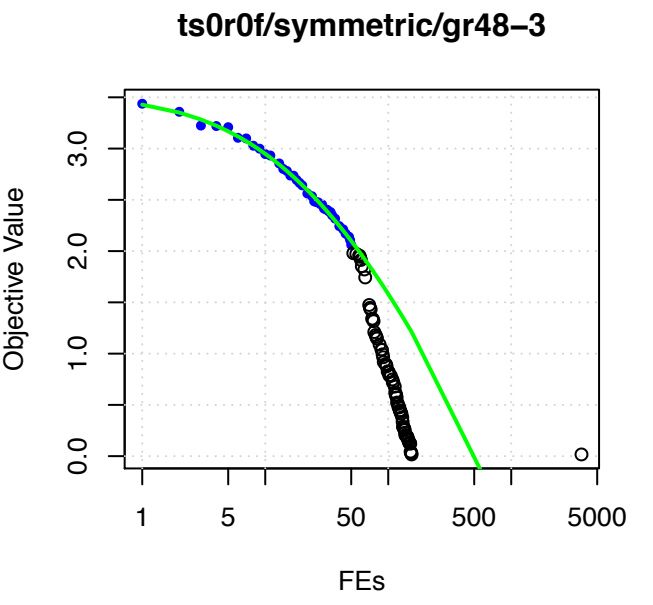
0.5
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts0r0f/symmetric/gr48−3
Objective Value
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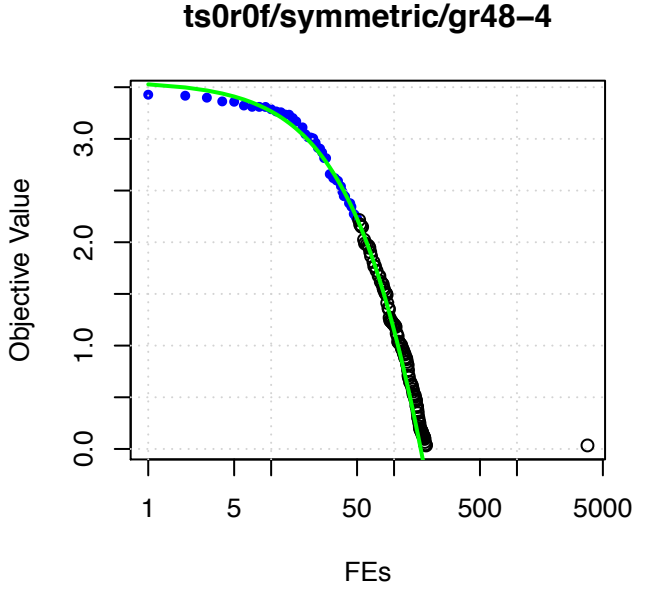
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/gr48−4
Objective Value
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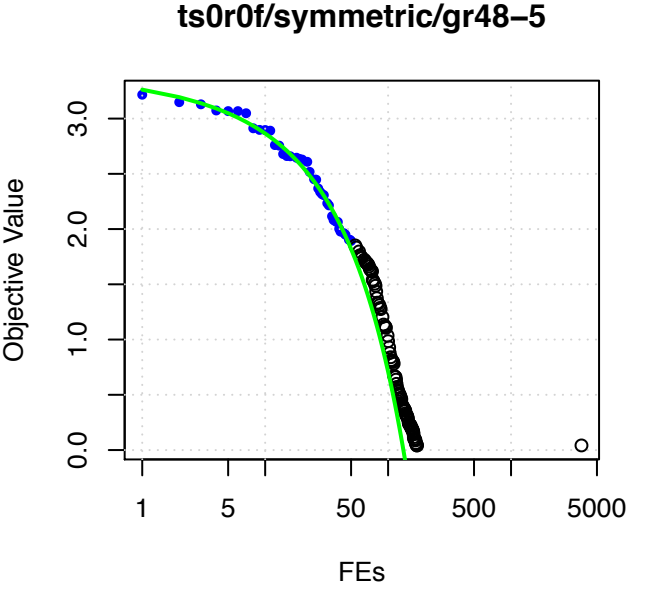
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/gr48−5
Objective Value
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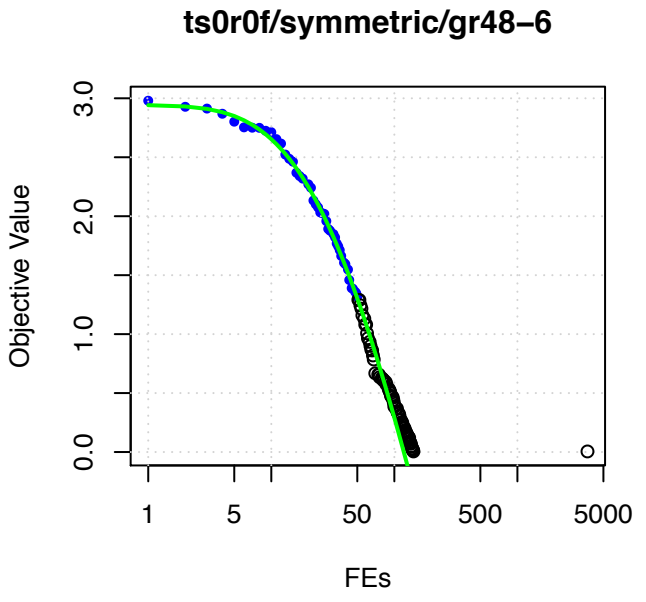
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/gr48−6
Objective Value
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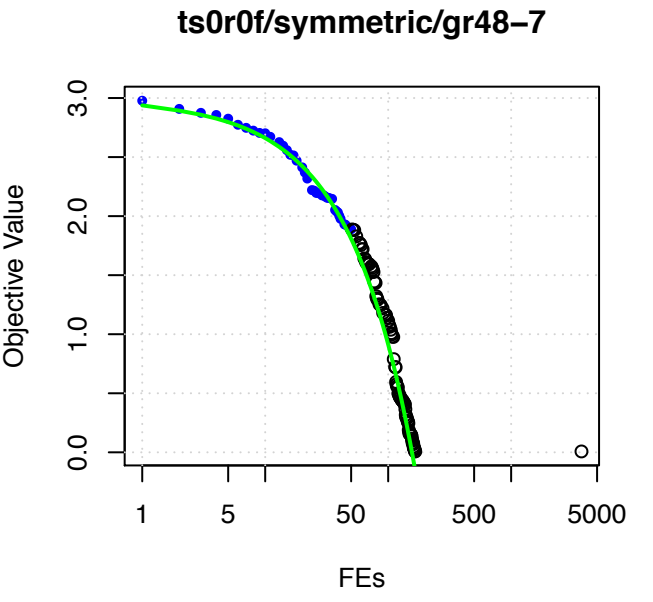
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/gr48−7
Objective Value
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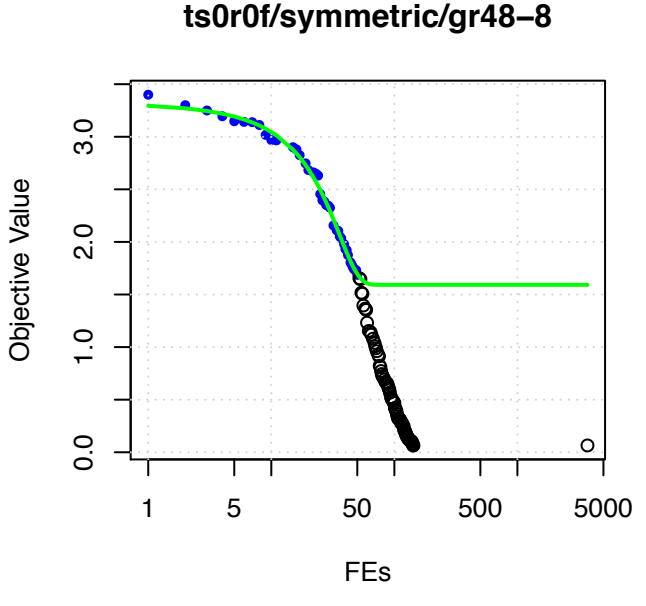
2.0
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/gr48−8
Objective Value
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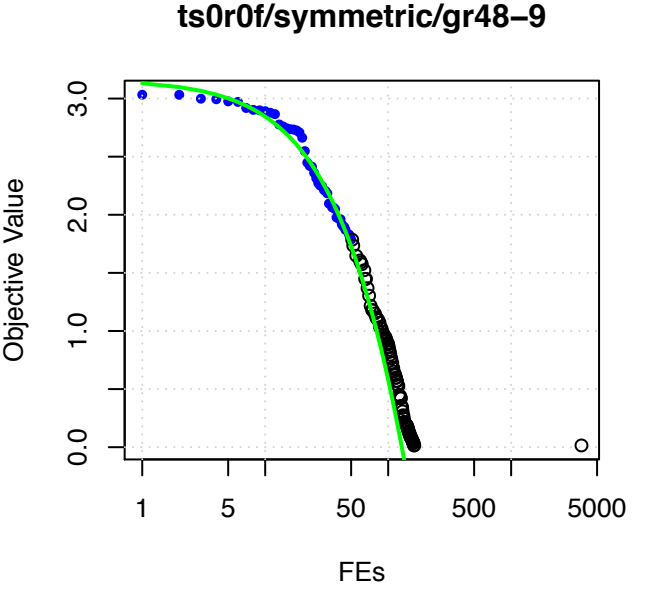
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/gr48−9
Objective Value
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2.0
3.0
1
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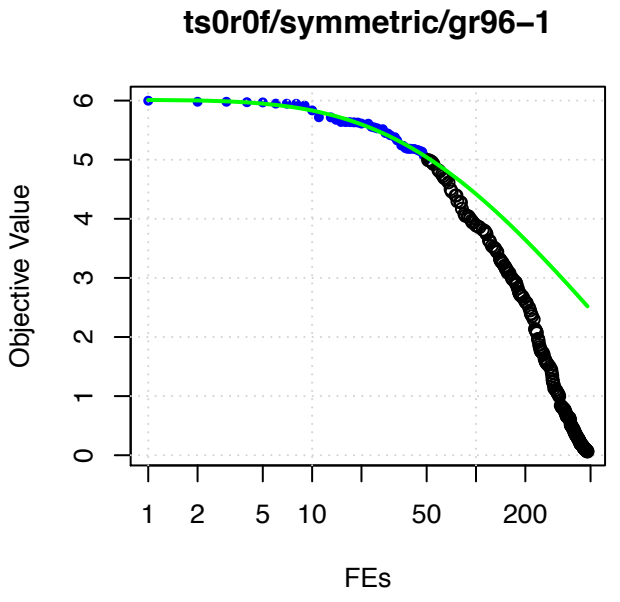
50
500
5000
FEs


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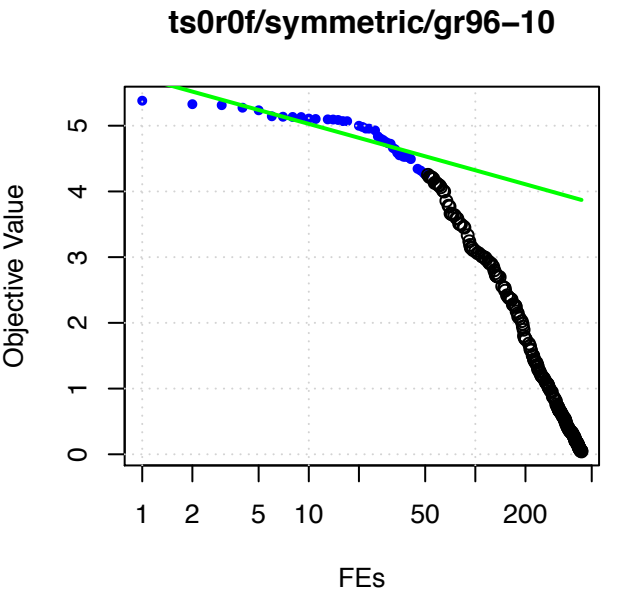
2
5
10
50
200
FEs


ts0r0f/symmetric/gr96−10
Objective Value
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3
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1
2
5
10
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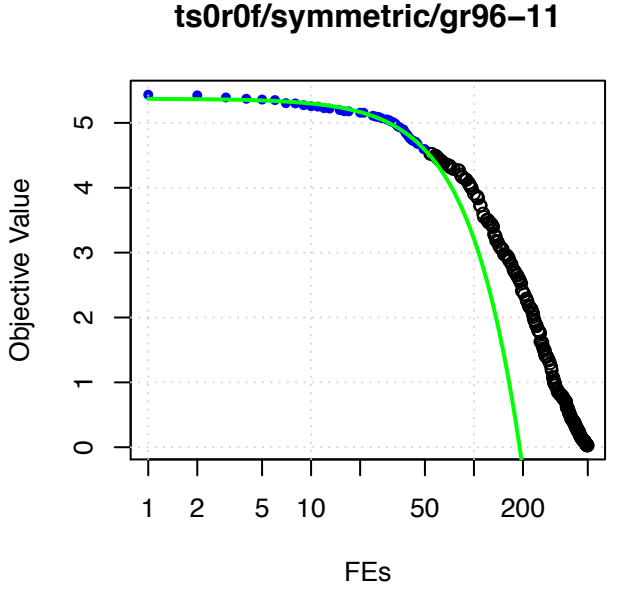
200
FEs


ts0r0f/symmetric/gr96−11
Objective Value
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3
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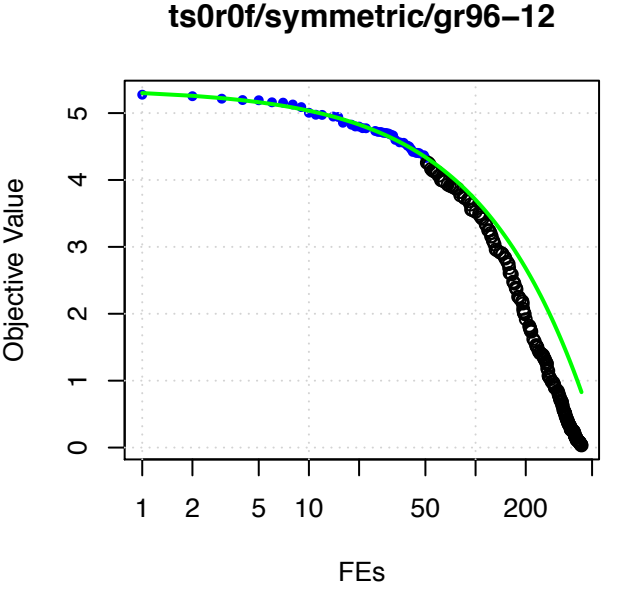
1
2
5
10
50
200
FEs


ts0r0f/symmetric/gr96−12
Objective Value
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2
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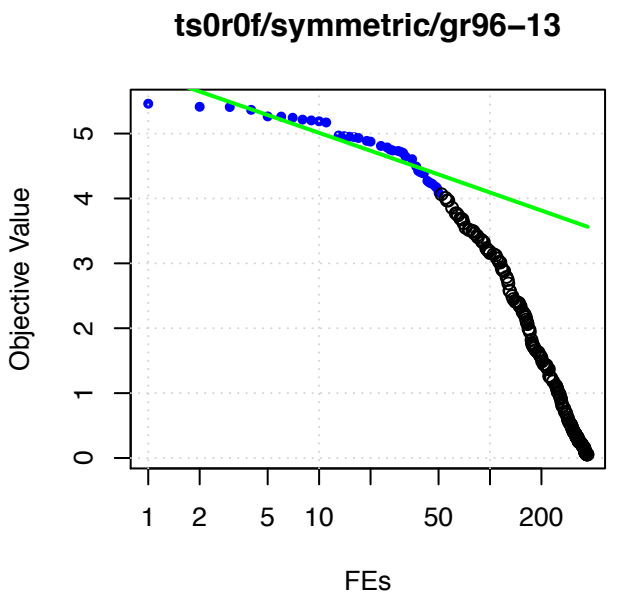
200
FEs


ts0r0f/symmetric/gr96−13
Objective Value
FEs
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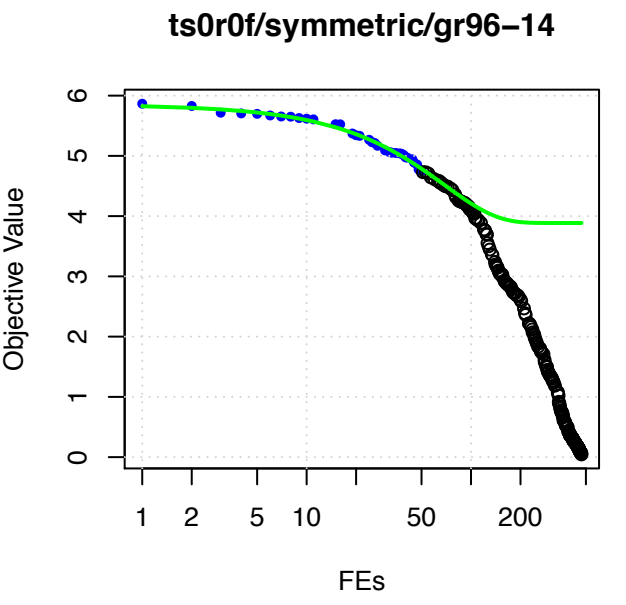
ts0r0f/symmetric/gr96−14
Objective Value
FEs
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10
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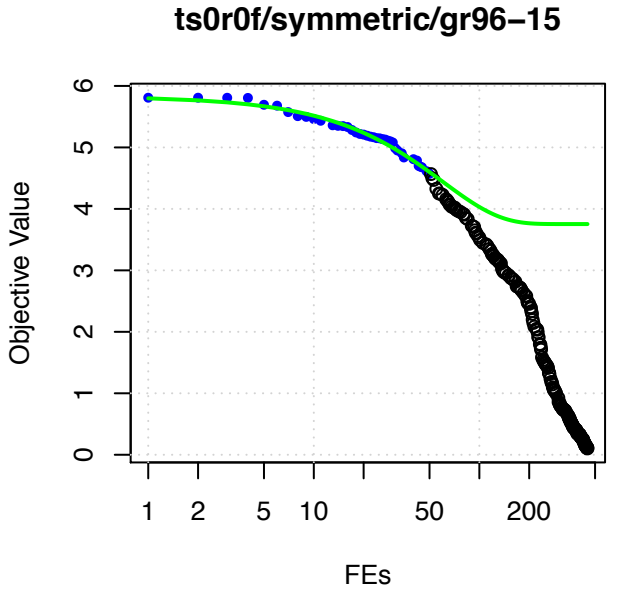
200


ts0r0f/symmetric/gr96−15
Objective Value
FEs
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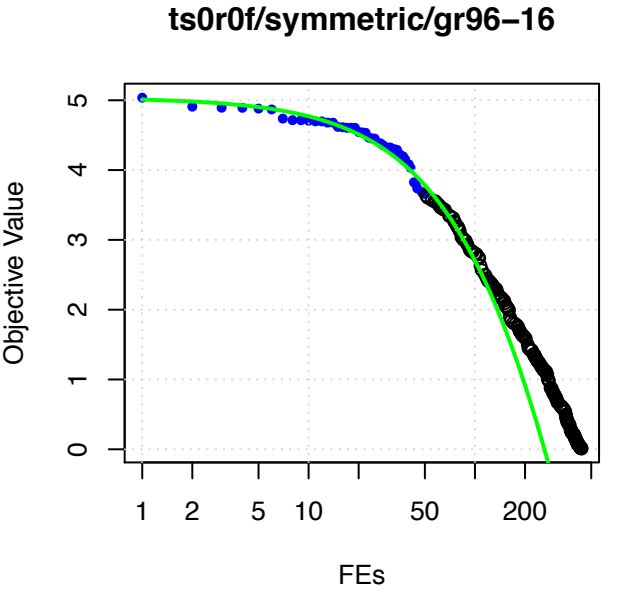
ts0r0f/symmetric/gr96−16
Objective Value
FEs
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5
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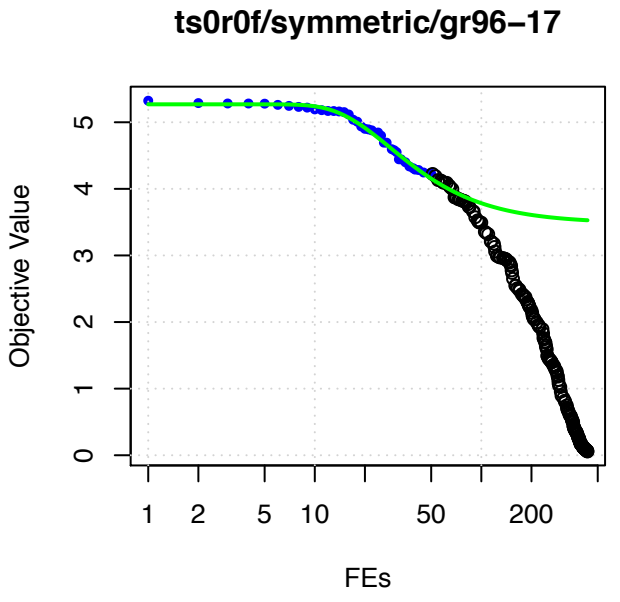
ts0r0f/symmetric/gr96−17
Objective Value
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1
2
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10
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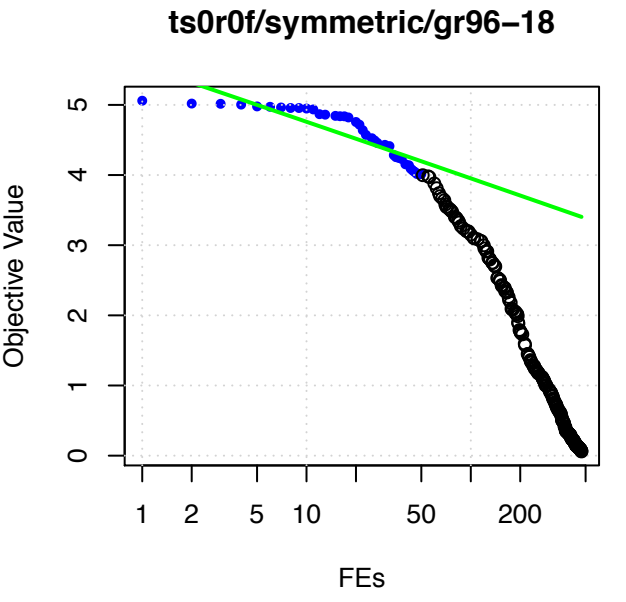
200
FEs


ts0r0f/symmetric/gr96−18
Objective Value
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1
2
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10
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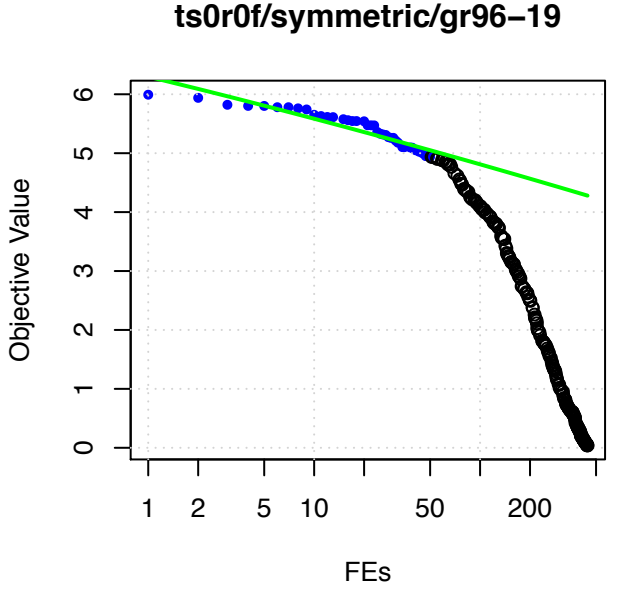
200
FEs


ts0r0f/symmetric/gr96−19
Objective Value
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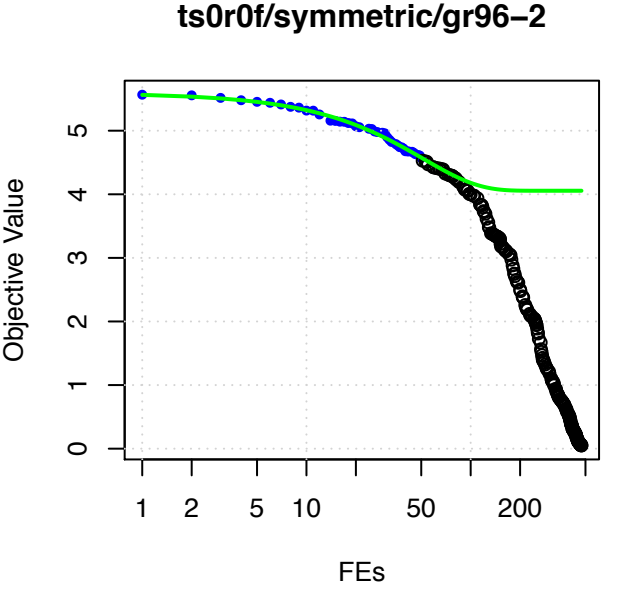
6
1
2
5
10
50
200
FEs


ts0r0f/symmetric/gr96−2
Objective Value
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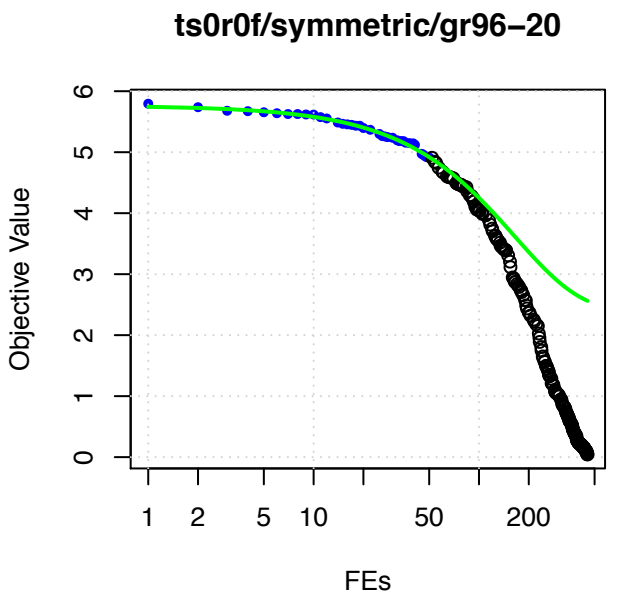
50
200
FEs


ts0r0f/symmetric/gr96−20
Objective Value
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4
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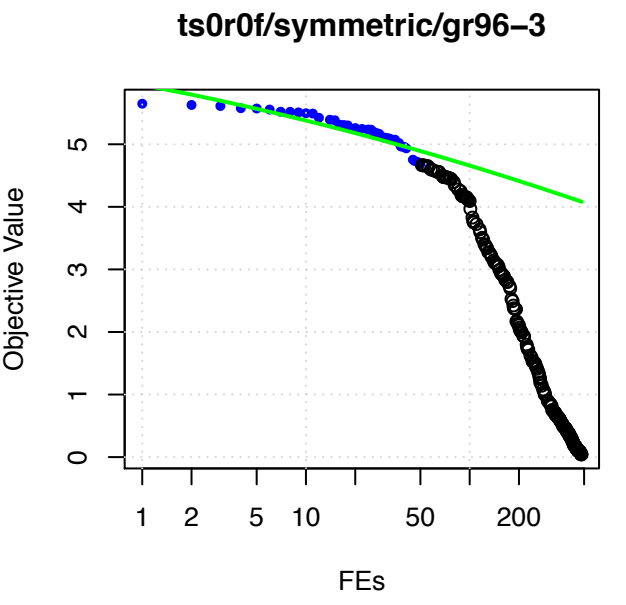
6
1
2
5
10
50
200
FEs


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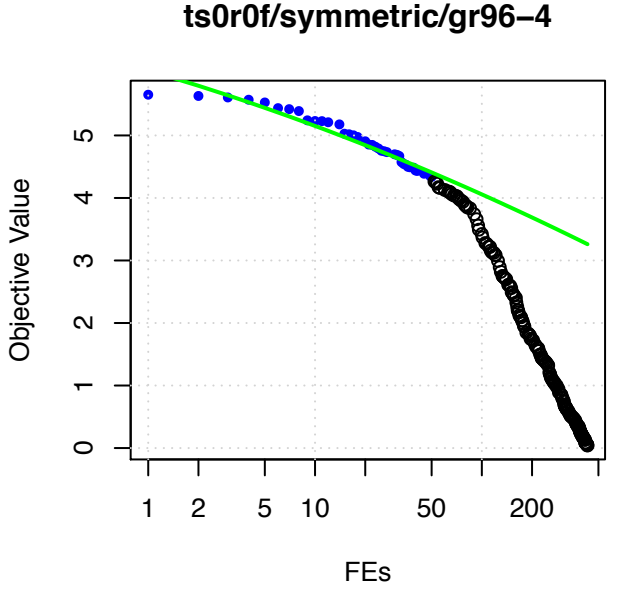
2
3
4
5
1
2
5
10
50
200
FEs


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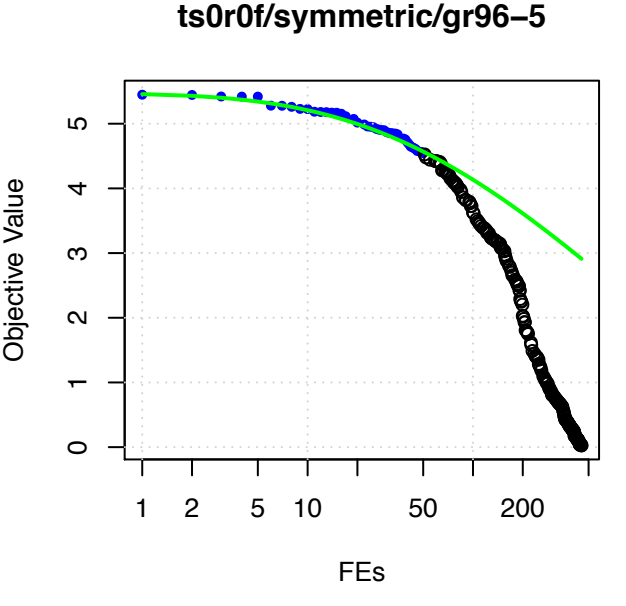
2
3
4
5
1
2
5
10
50
200
FEs


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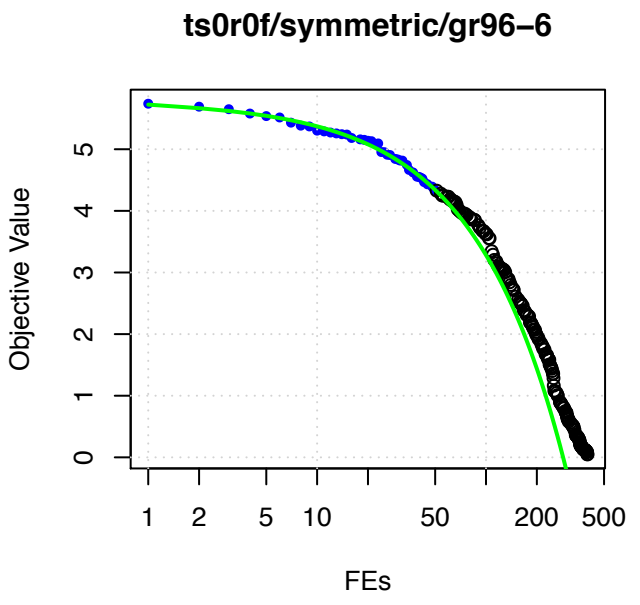
1
2
3
4
5
1
2
5
10
50
200
FEs


ts0r0f/symmetric/gr96−6
Objective Value
0
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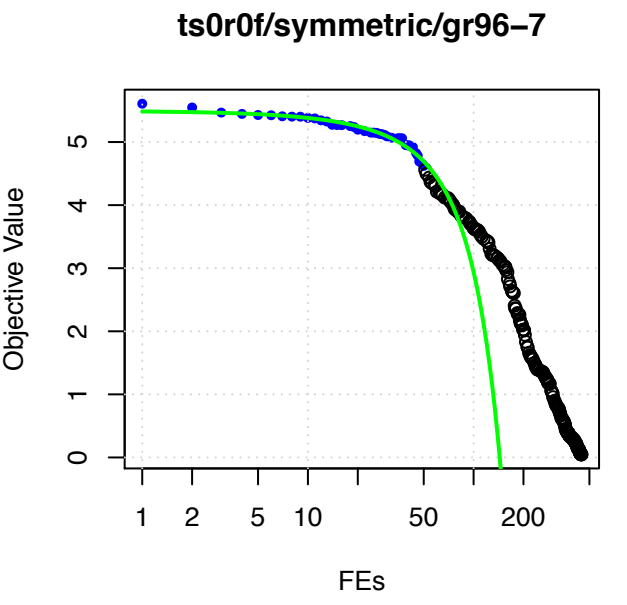
2
3
4
5
1
2
5
10
50
200
500
FEs


ts0r0f/symmetric/gr96−7
Objective Value
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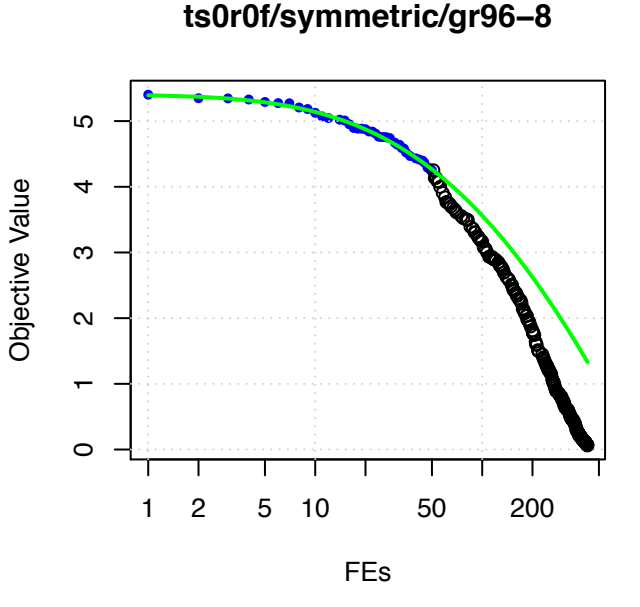
2
3
4
5
1
2
5
10
50
200
FEs


ts0r0f/symmetric/gr96−8
Objective Value
0
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4
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1
2
5
10
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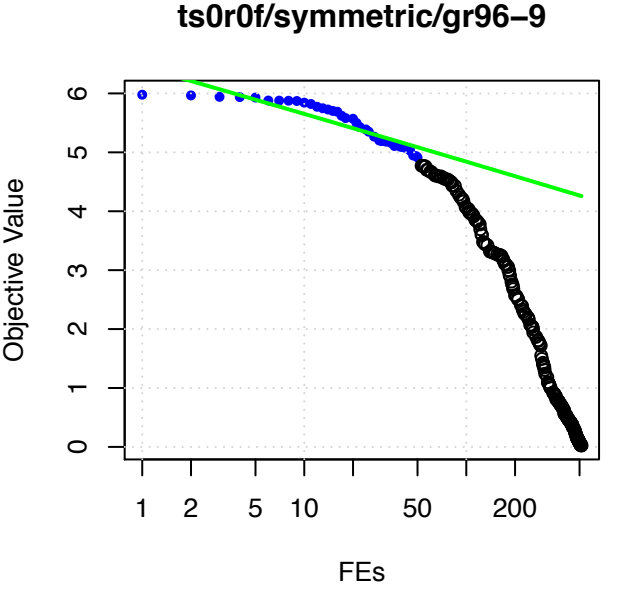
200
FEs


ts0r0f/symmetric/gr96−9
Objective Value
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4
5
6
1
2
5
10
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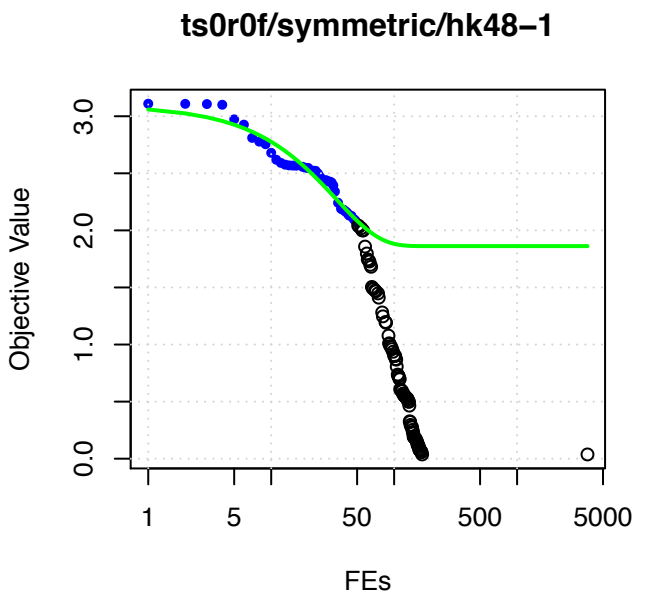
200
FEs


ts0r0f/symmetric/hk48−1
Objective Value
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2.0
3.0
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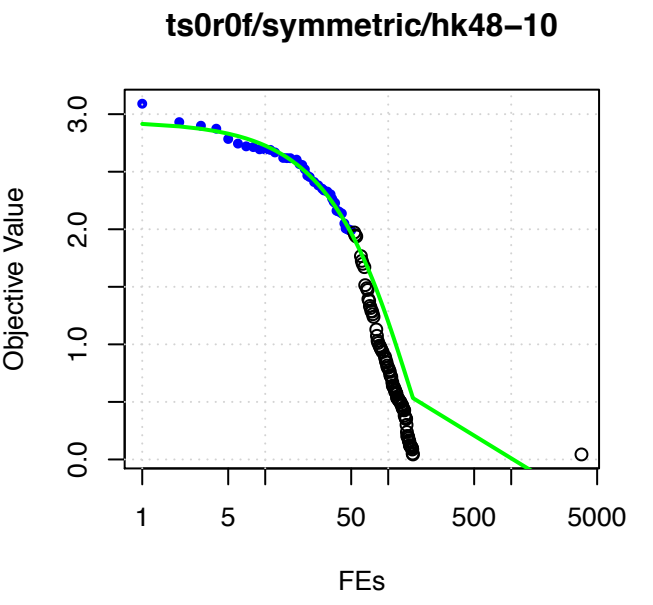
5000
FEs


ts0r0f/symmetric/hk48−10
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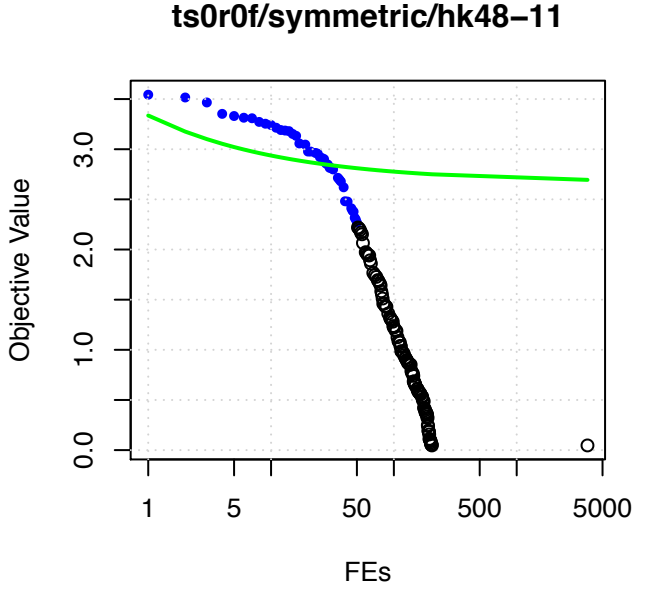
FEs


ts0r0f/symmetric/hk48−11
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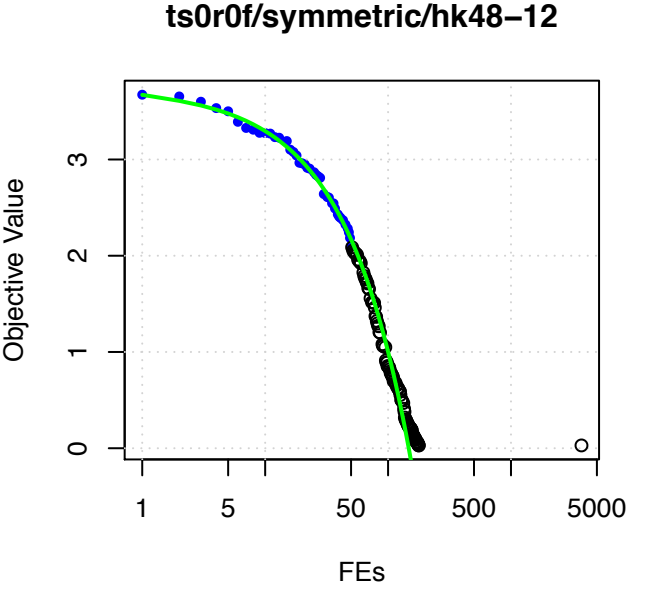
FEs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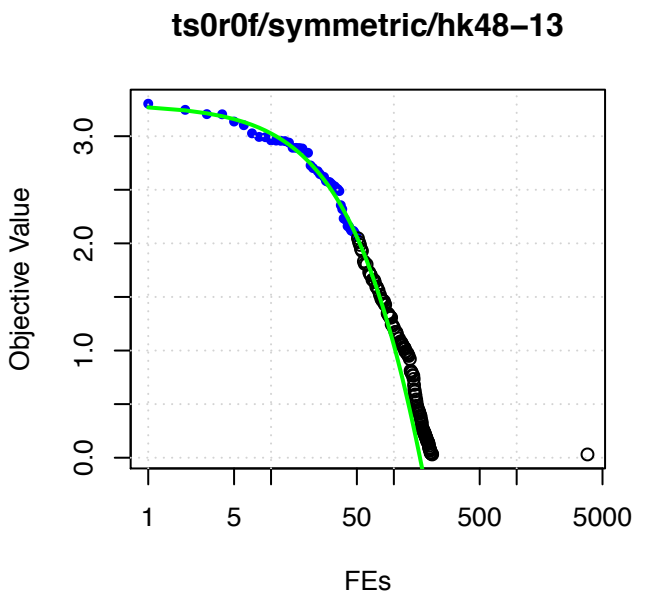
FEs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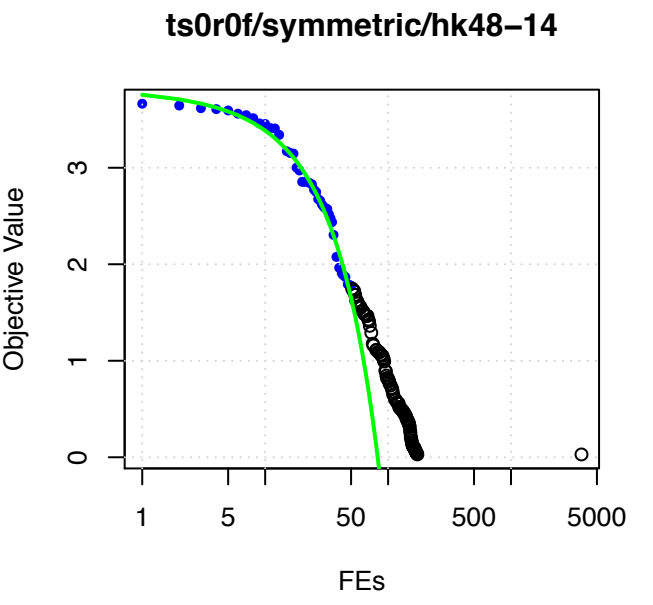
FEs


ts0r0f/symmetric/hk48−14
Objective Value
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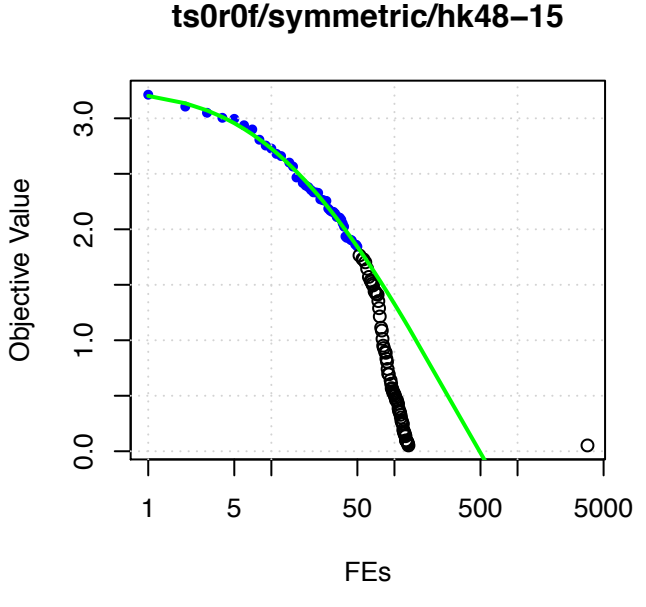
FEs


ts0r0f/symmetric/hk48−15
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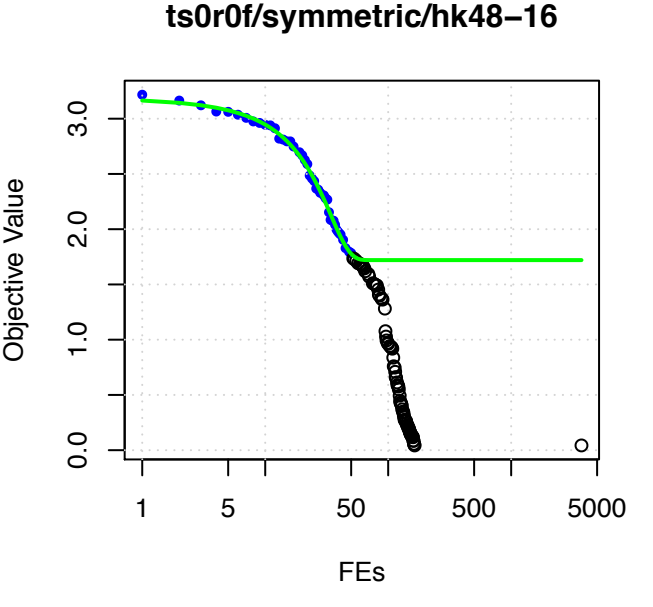
FEs


ts0r0f/symmetric/hk48−16
Objective Value
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3.0
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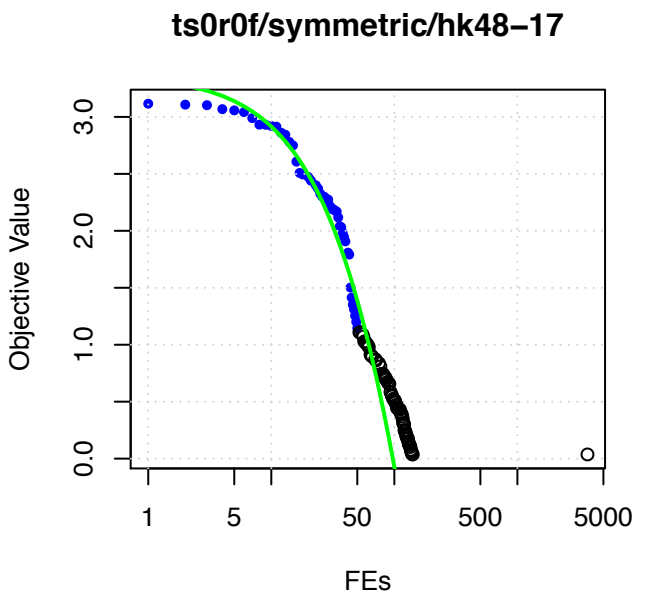
FEs


ts0r0f/symmetric/hk48−17
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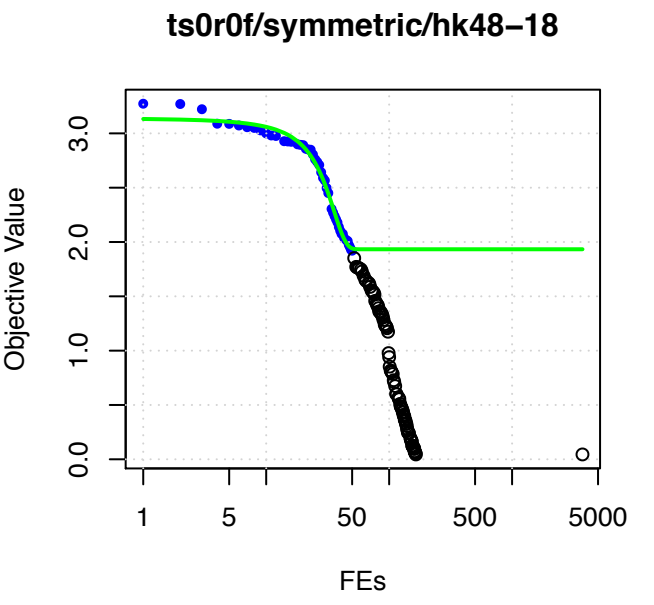
FEs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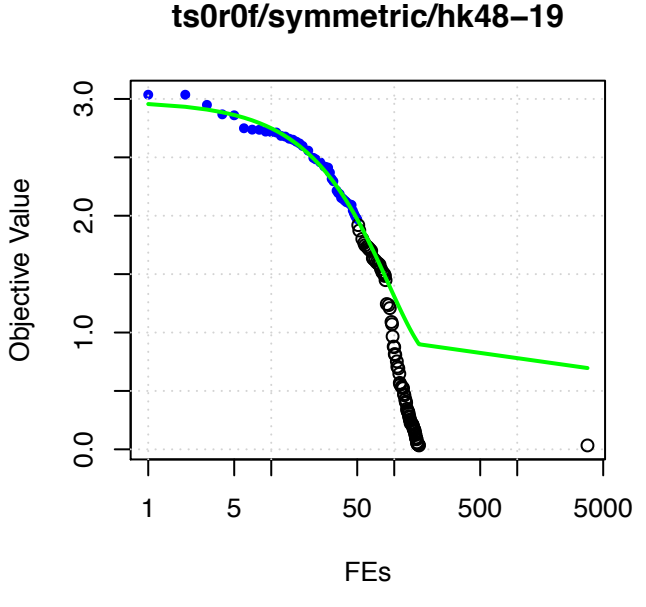
FEs


ts0r0f/symmetric/hk48−19
Objective Value
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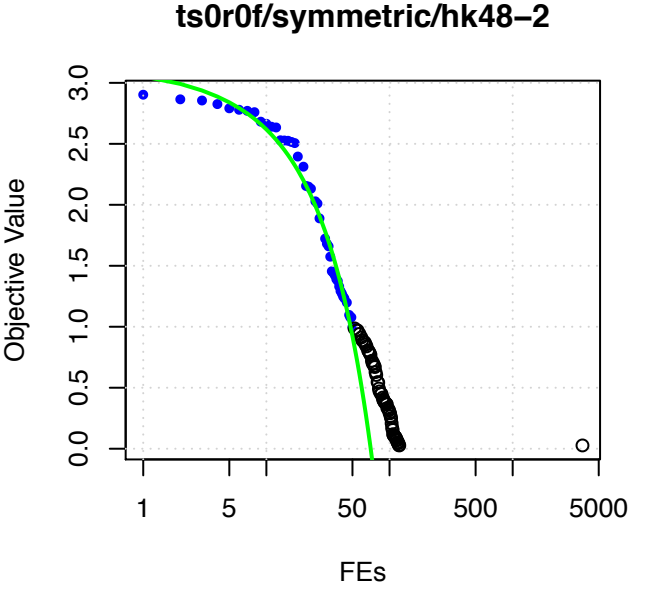
5000
FEs


ts0r0f/symmetric/hk48−2
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1.5
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2.5
3.0
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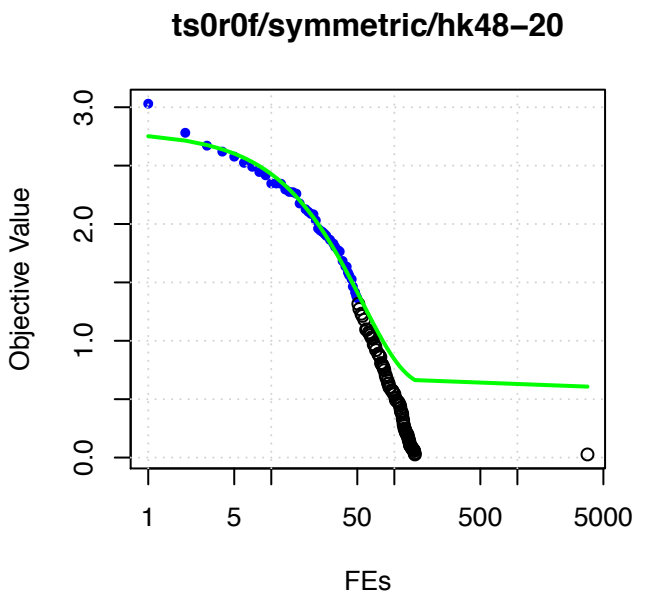
500
5000
FEs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Objective Value
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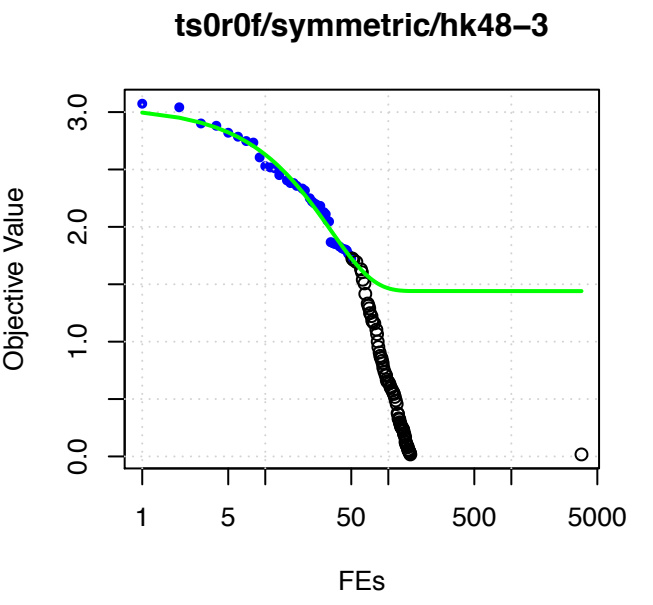
50
500
5000
FEs


ts0r0f/symmetric/hk48−3
Objective Value
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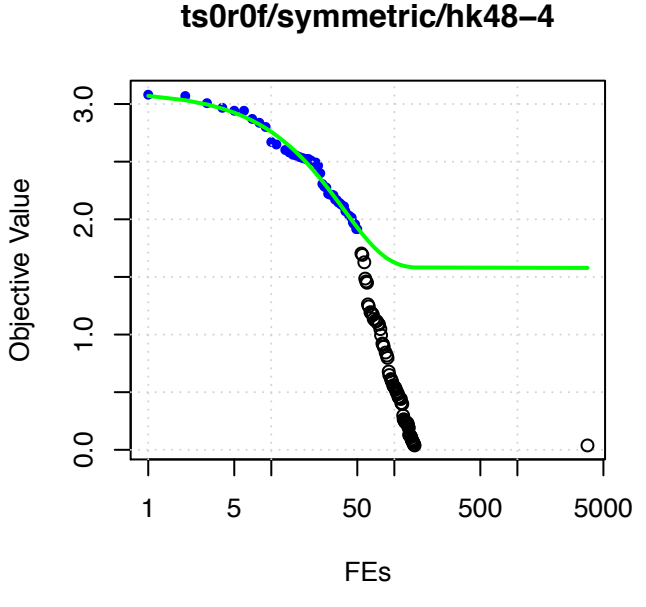
2.0
3.0
1
5
50
500
5000
FEs


ts0r0f/symmetric/hk48−4
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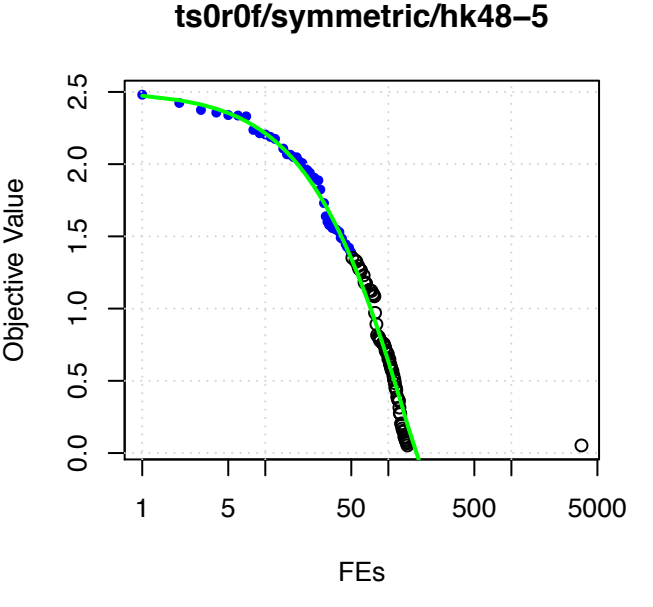
500
5000
FEs


ts0r0f/symmetric/hk48−5
Objective Value
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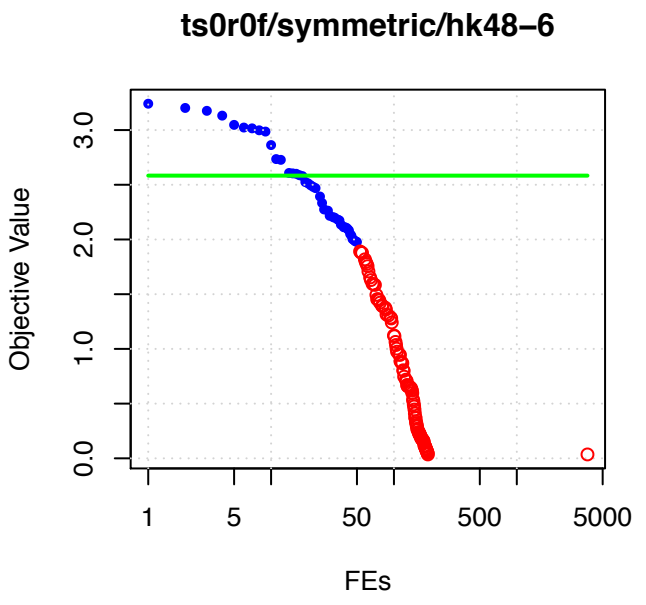
2.0
2.5
1
5
50
500
5000
FEs


ts0r0f/symmetric/hk48−6
Objective Value
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2.0
3.0
1
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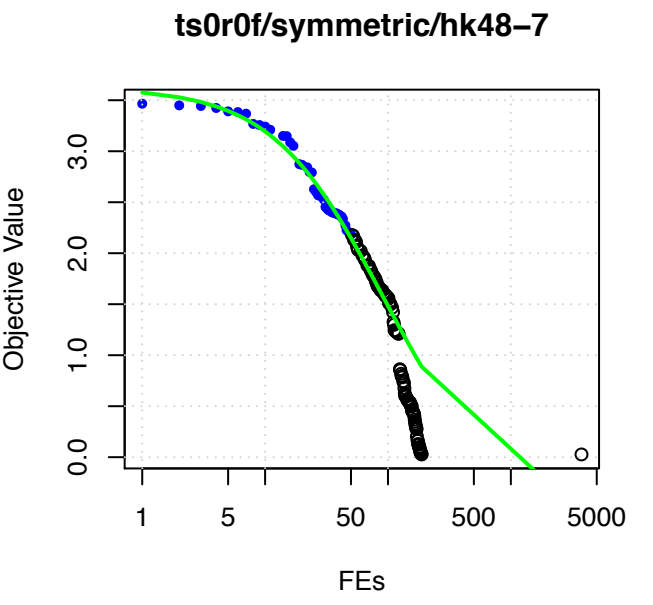
500
5000
FEs


ts0r0f/symmetric/hk48−7
Objective Value
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2.0
3.0
1
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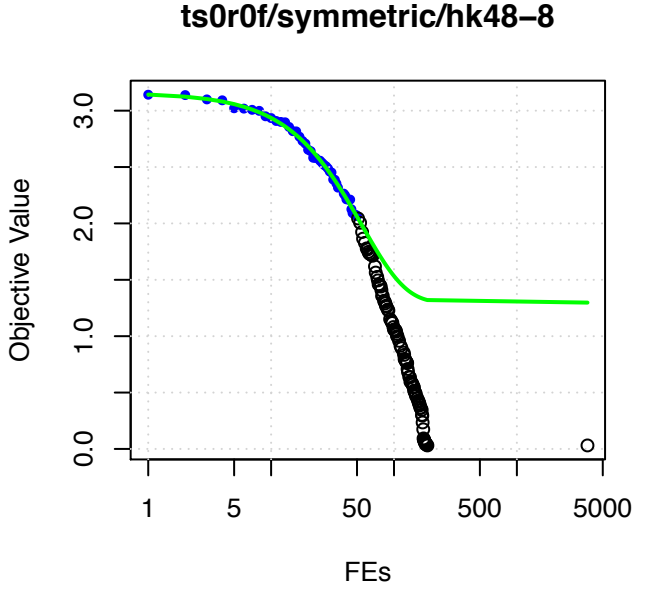
500
5000
FEs


ts0r0f/symmetric/hk48−8
Objective Value
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2.0
3.0
1
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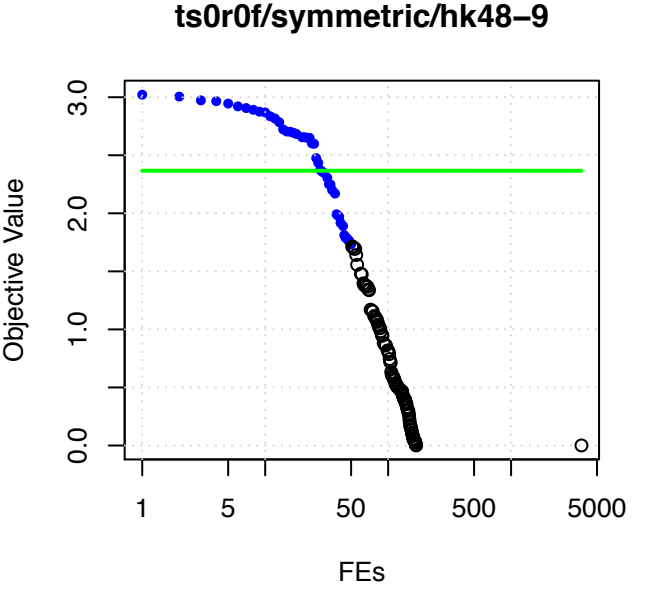
50
500
5000
FEs


ts0r0f/symmetric/hk48−9
Objective Value
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2.0
3.0
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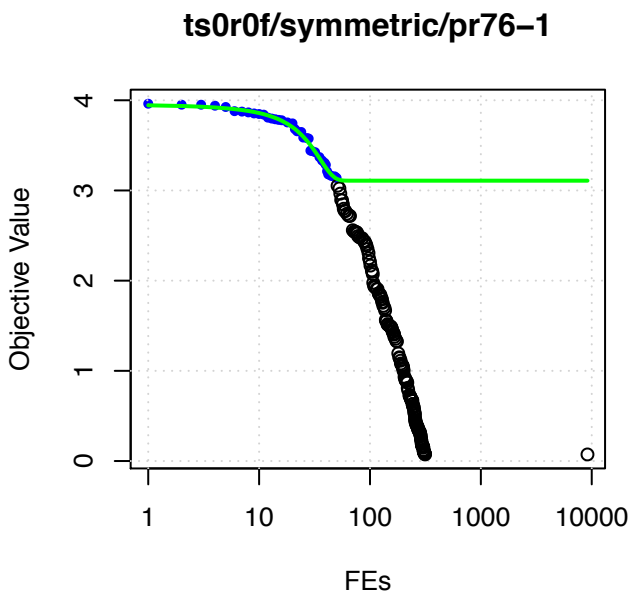
500
5000
FEs


ts0r0f/symmetric/pr76−1
Objective Value
FEs
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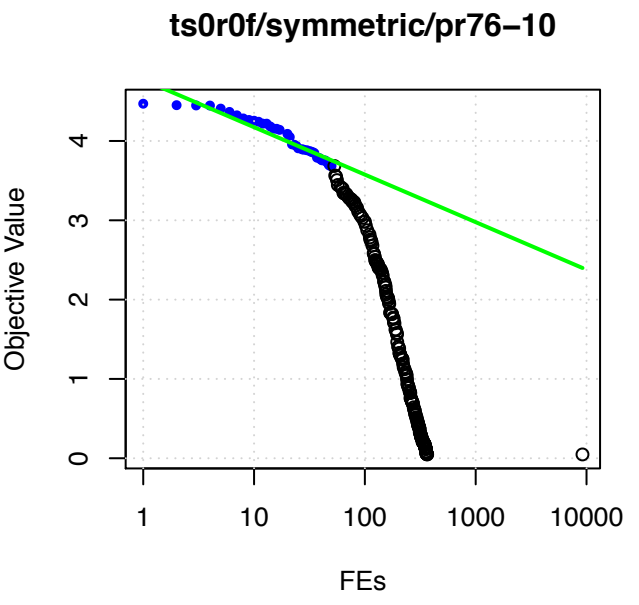
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Objective Value
FEs
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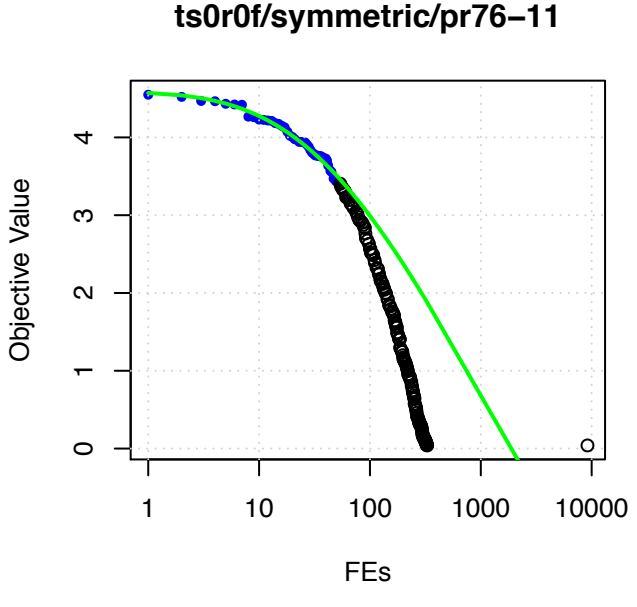
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Objective Value
FEs
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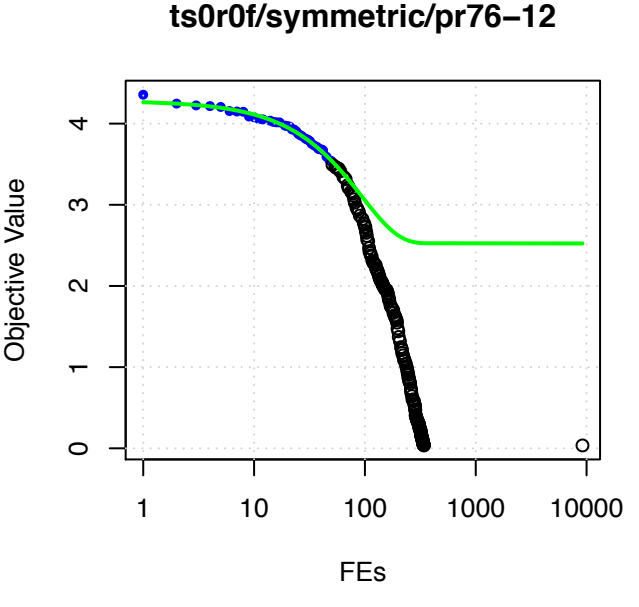
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Objective Value
FEs
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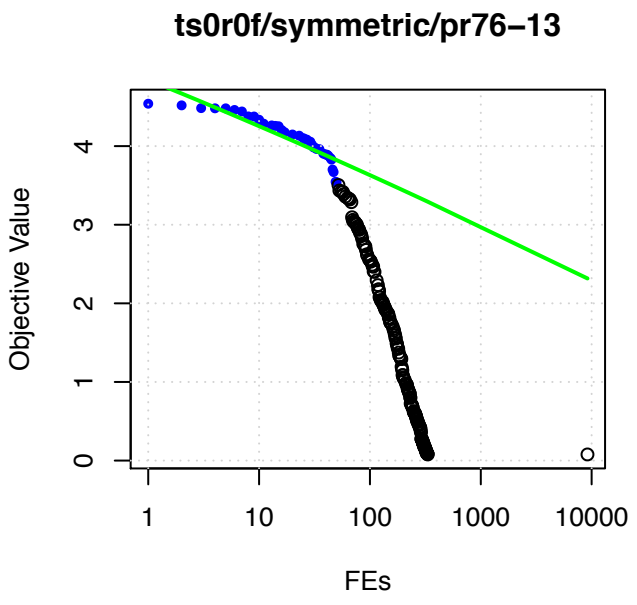
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Objective Value
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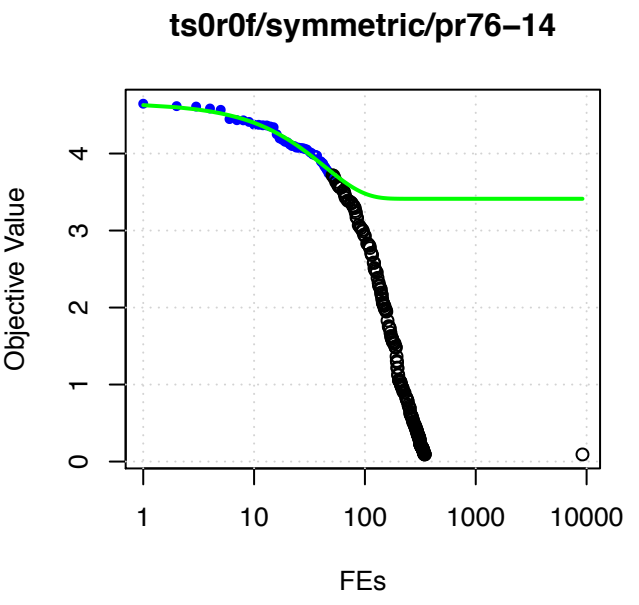
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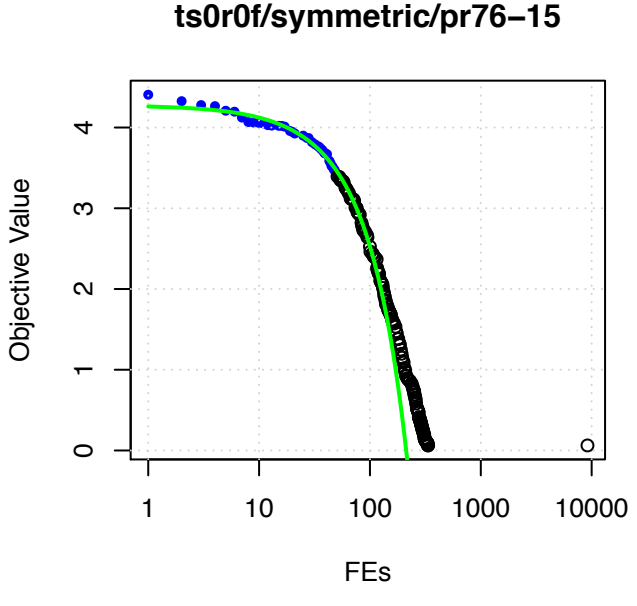
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Objective Value
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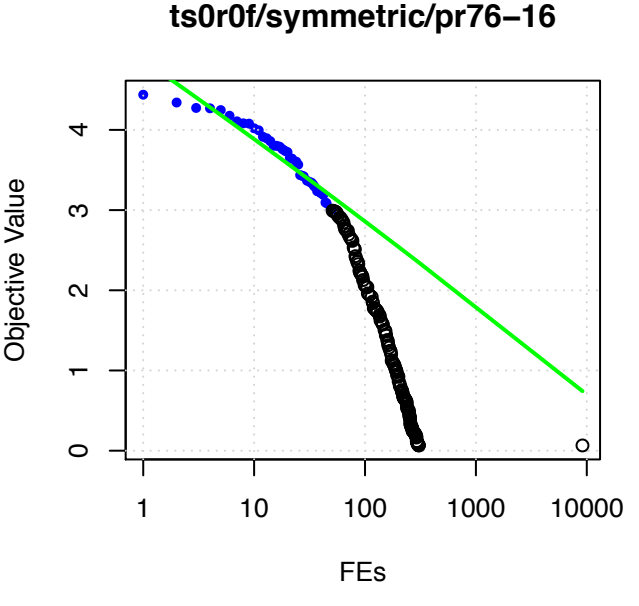
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Objective Value
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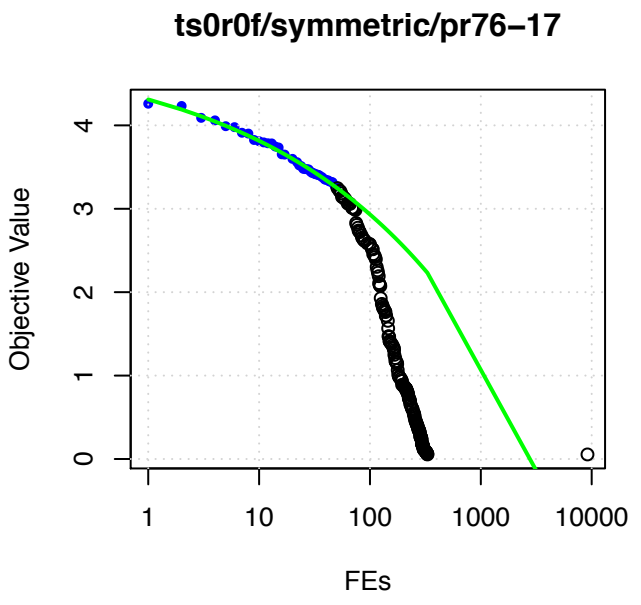
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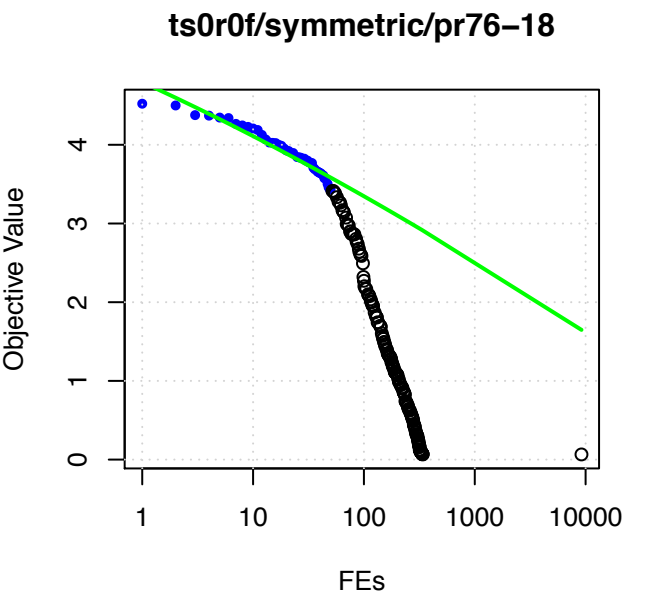
FEs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Objective Value
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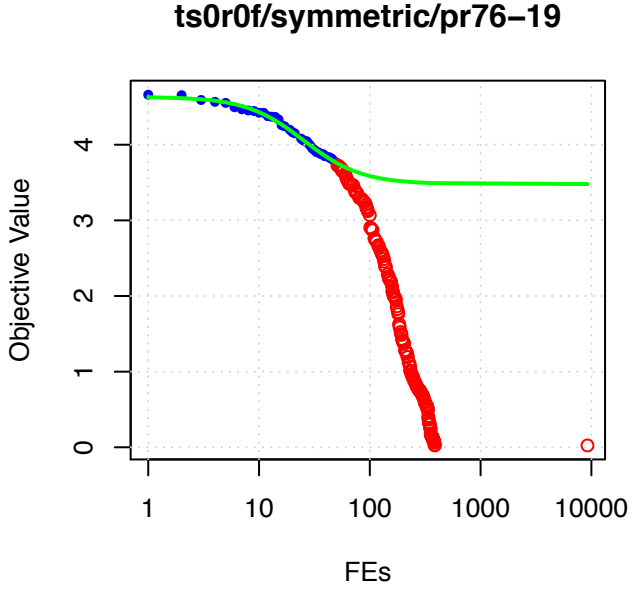
FEs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Objective Value
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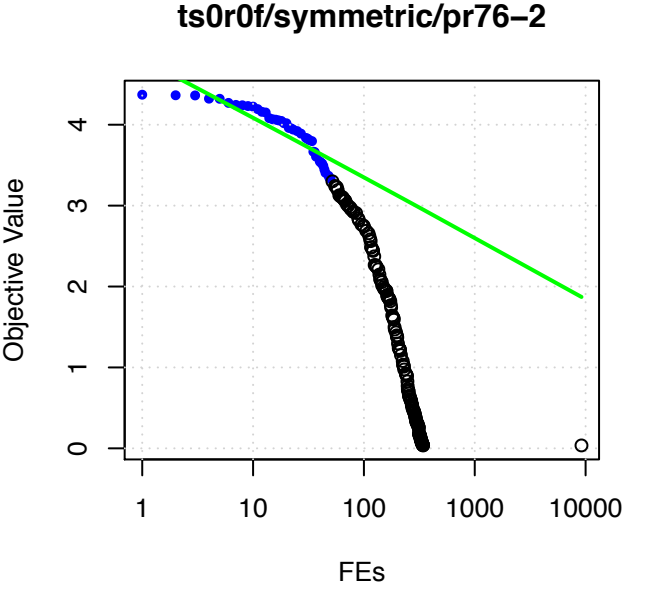
10000
FEs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Objective Value
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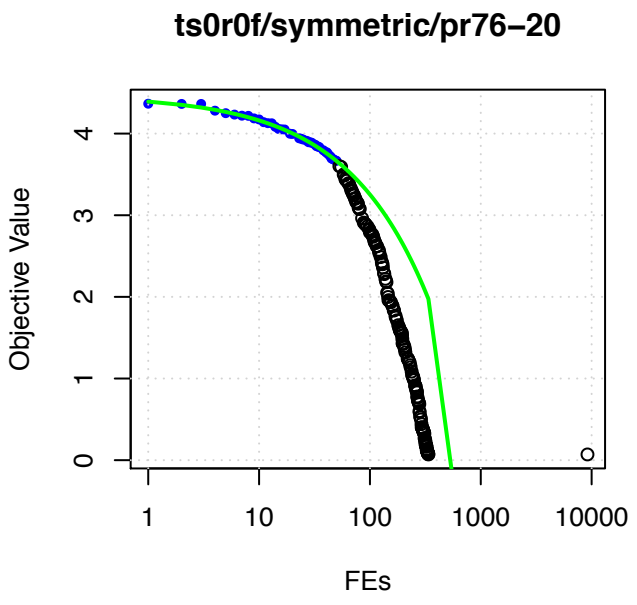
10000
FEs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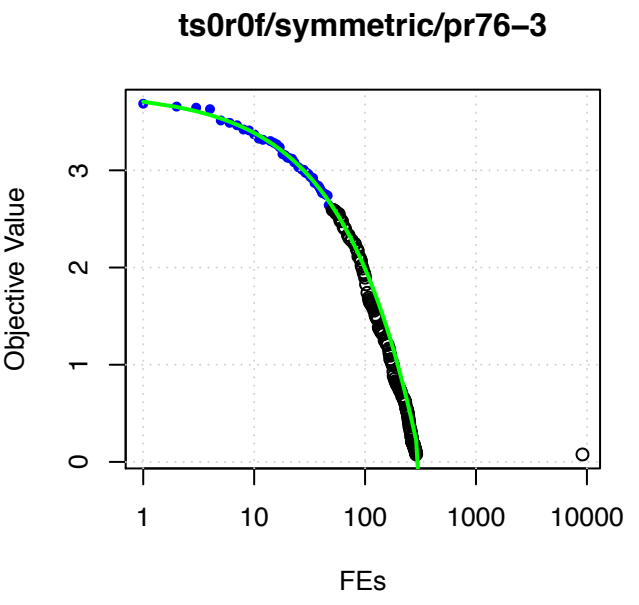
FEs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Objective Value
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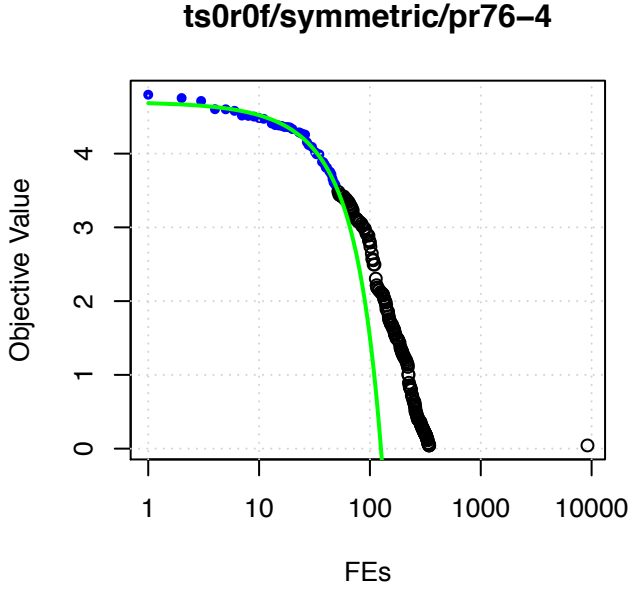
1000
10000
FEs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Objective Value
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3
4
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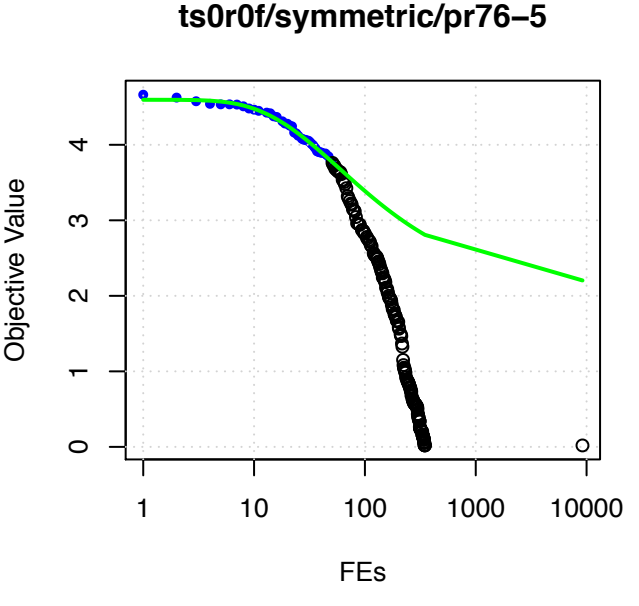
1000
10000
FEs


ts0r0f/symmetric/pr76−5
Objective Value
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4
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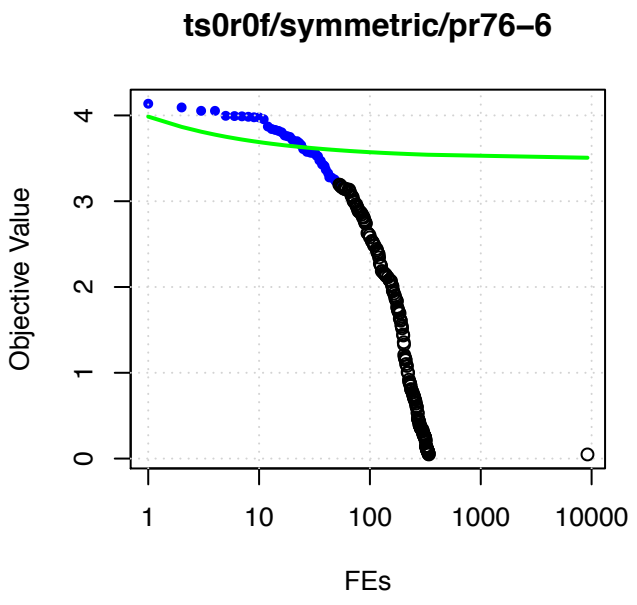
100
1000
10000
FEs


ts0r0f/symmetric/pr76−6
Objective Value
FEs
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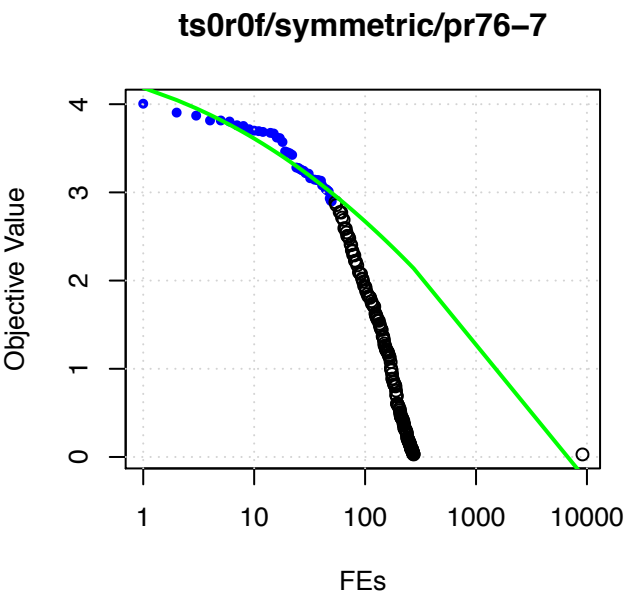
100
1000
10000


ts0r0f/symmetric/pr76−7
Objective Value
FEs
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3
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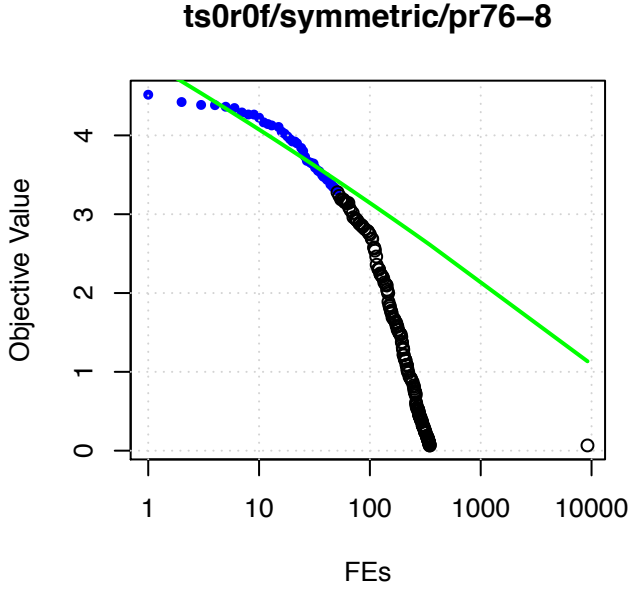
10000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Objective Value
FEs
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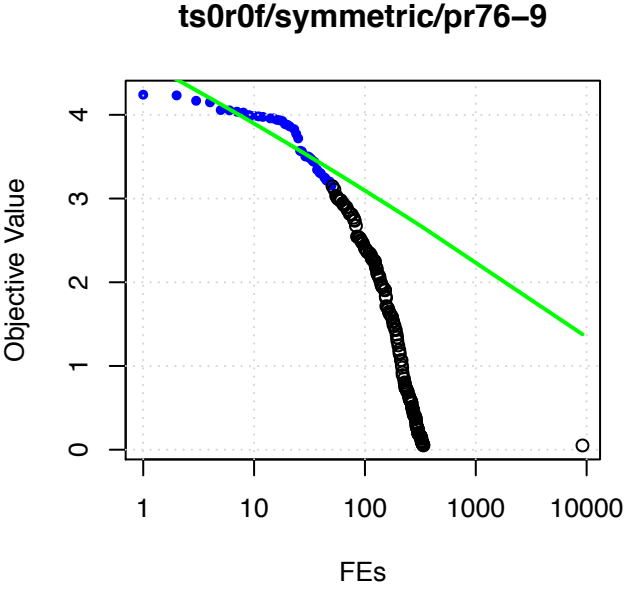
10000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Objective Value
FEs
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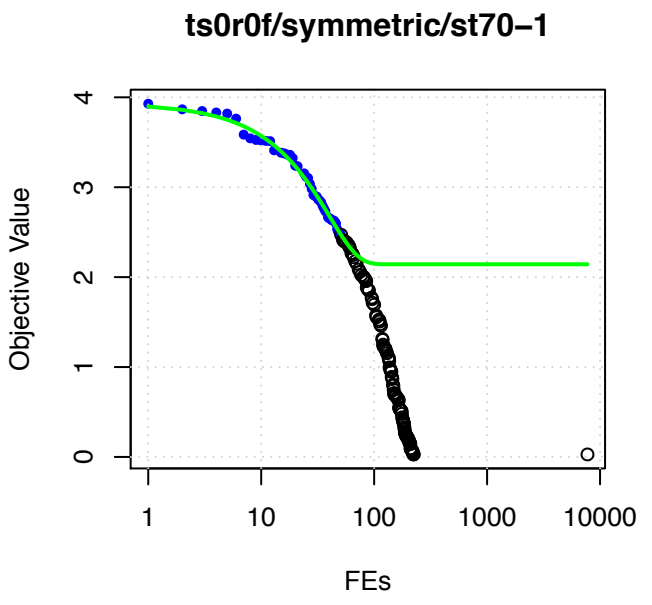
1000
10000


ts0r0f/symmetric/st70−1
Objective Value
FEs
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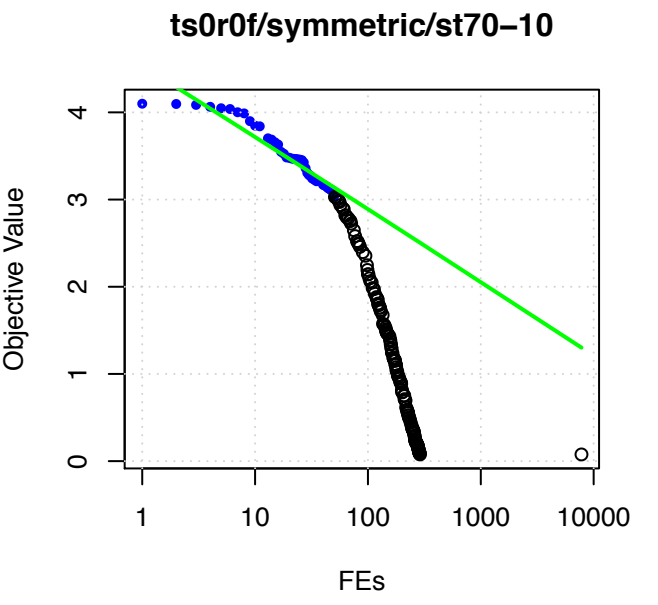
ts0r0f/symmetric/st70−10
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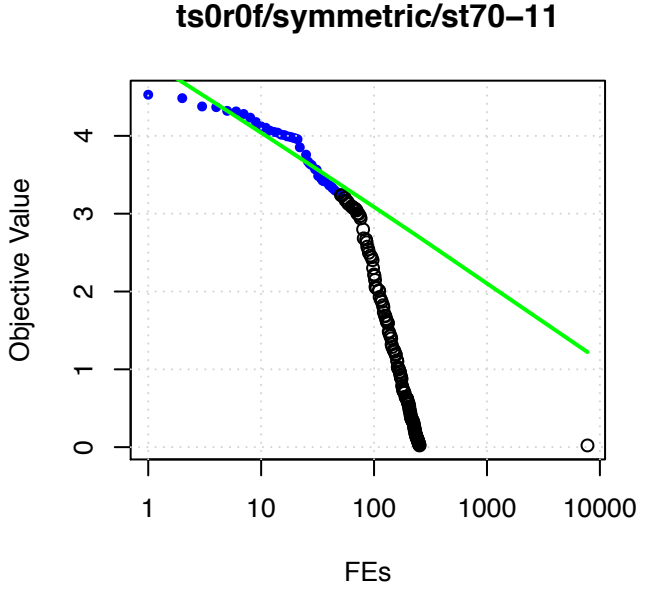
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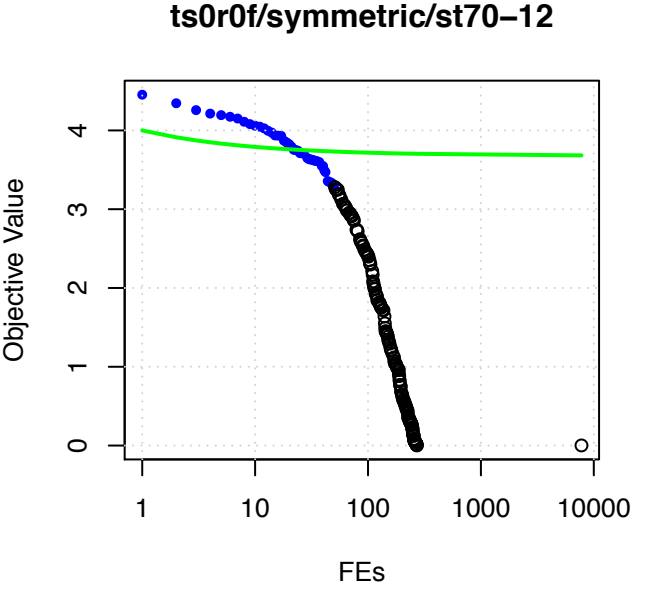
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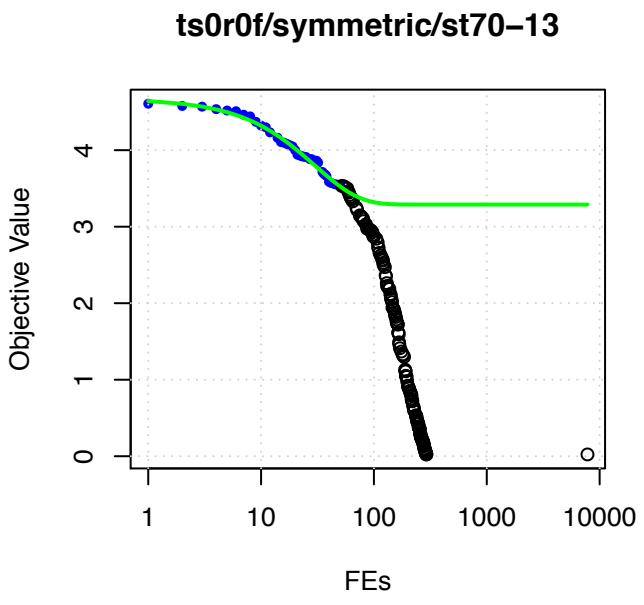
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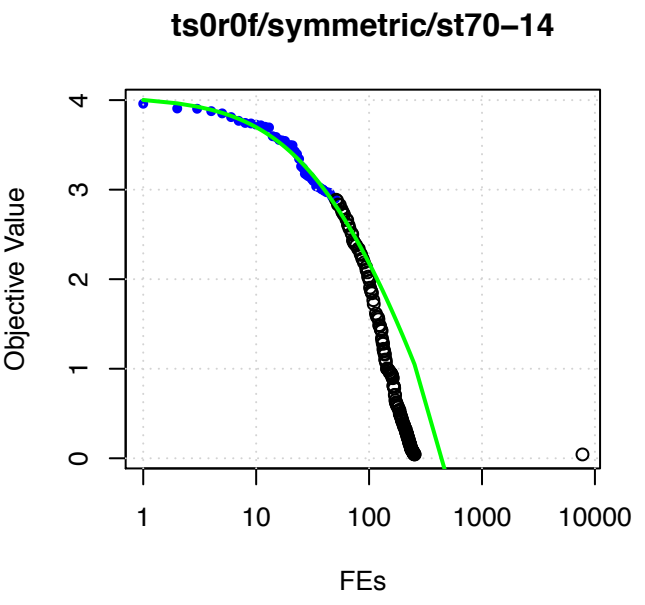
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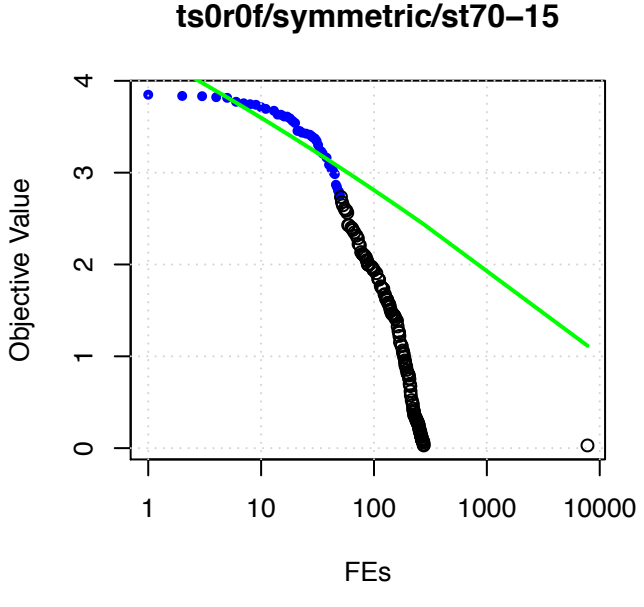
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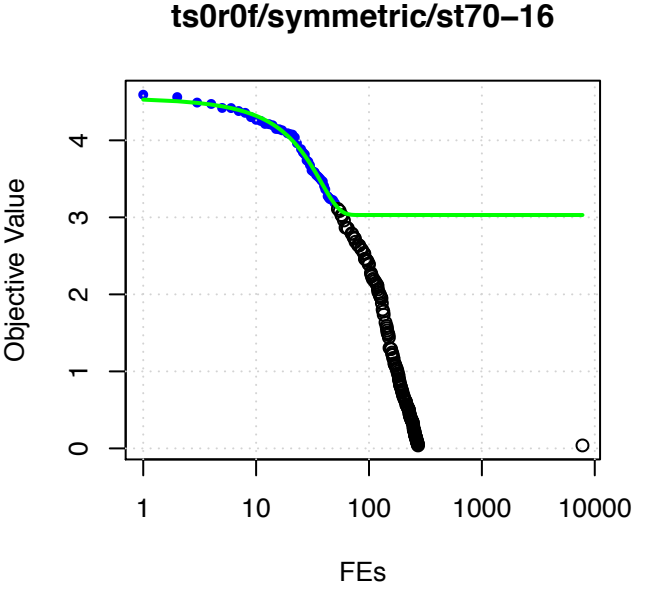
ts0r0f/symmetric/st70−16
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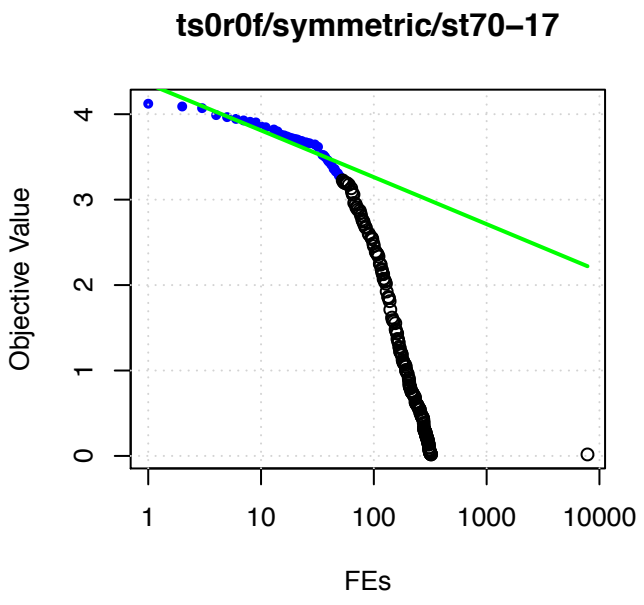
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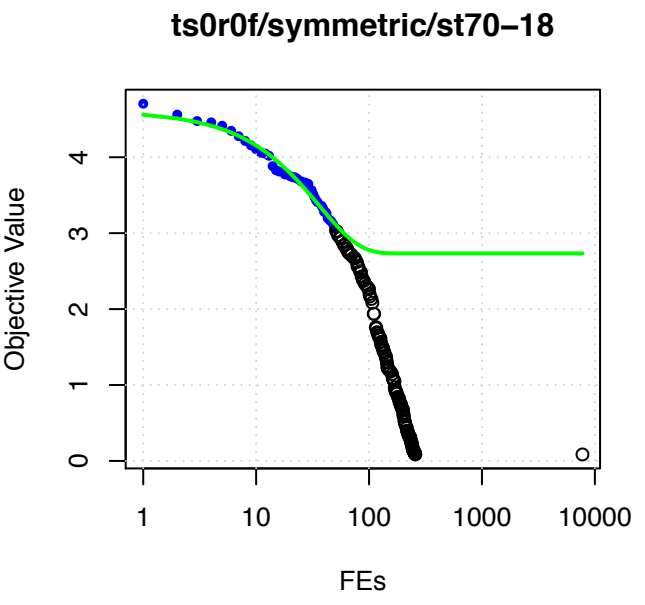
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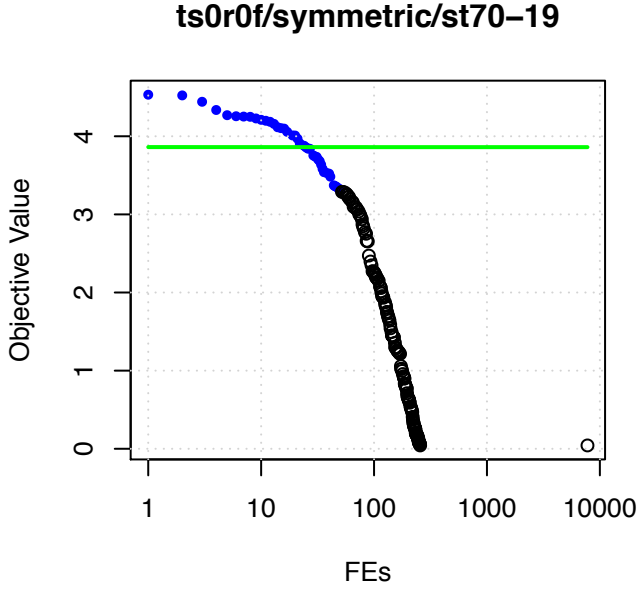
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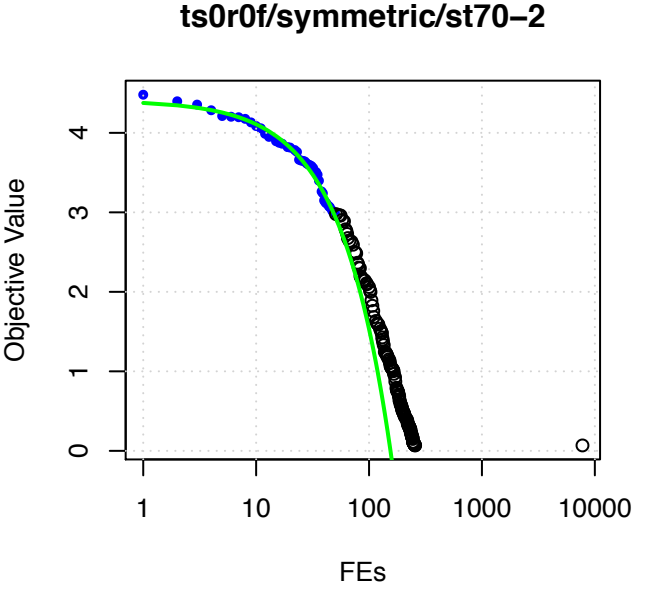
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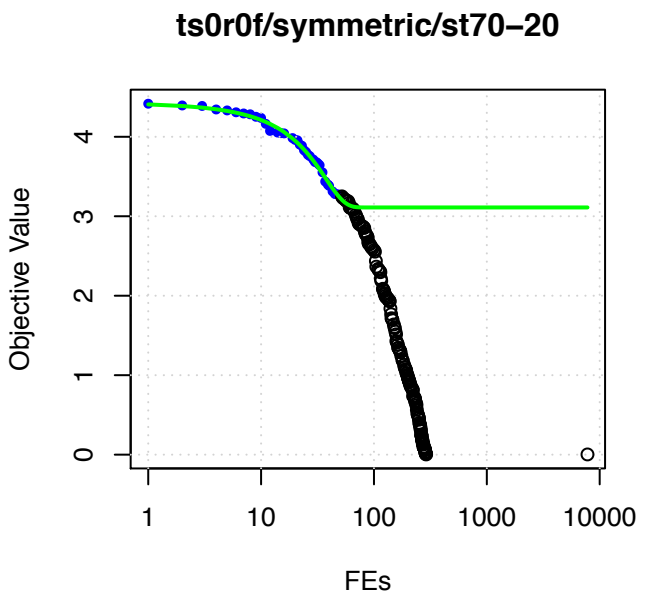
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4
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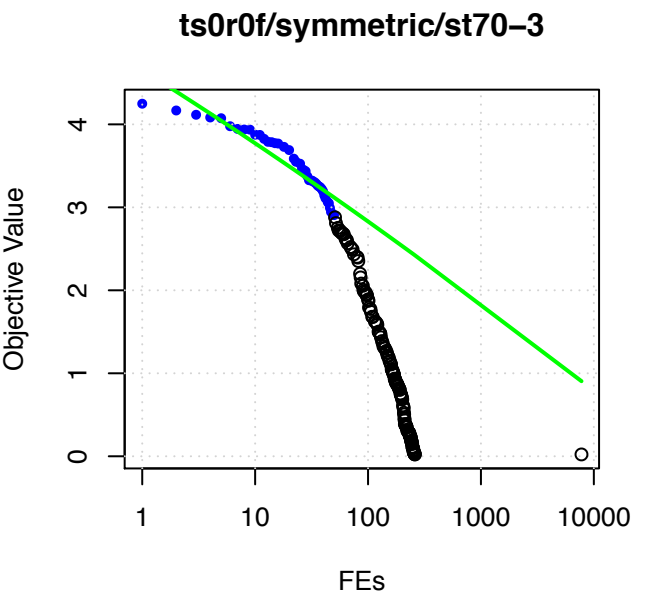
1000
10000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Objective Value
FEs
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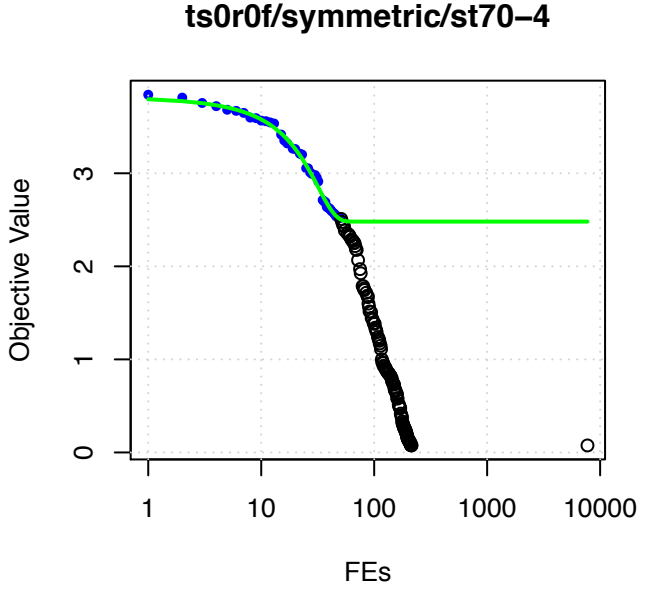
ts0r0f/symmetric/st70−4
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FEs
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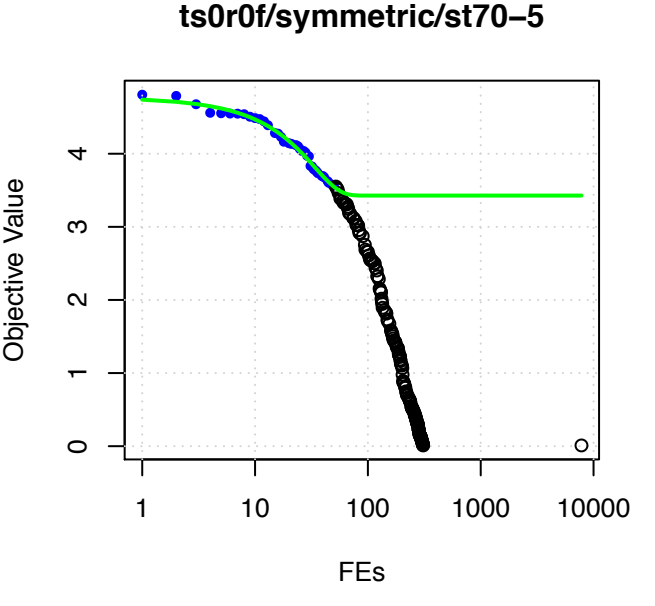
ts0r0f/symmetric/st70−5
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1000
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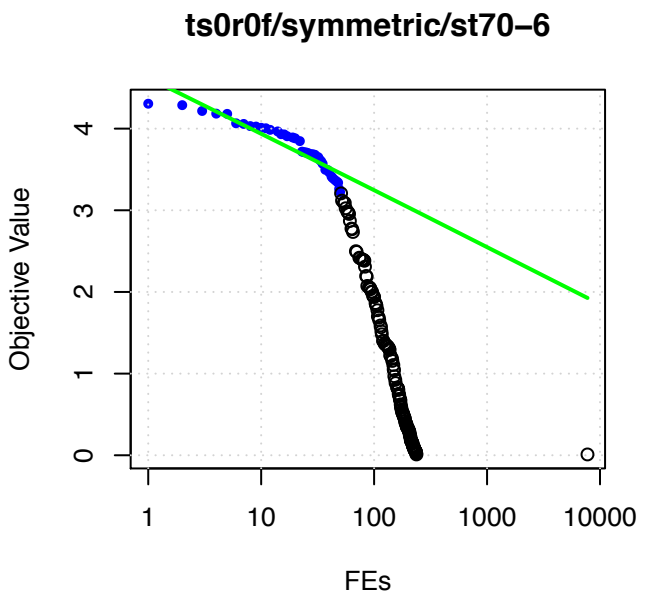
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Objective Value
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1000
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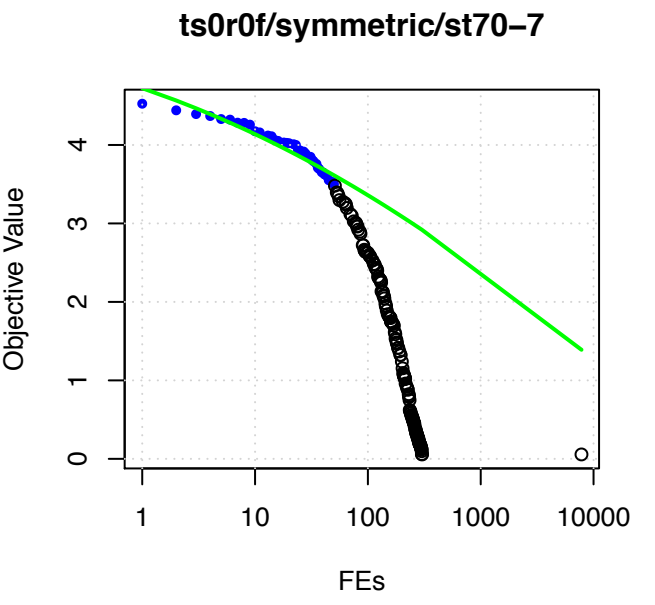
ts0r0f/symmetric/st70−7
Objective Value
FEs
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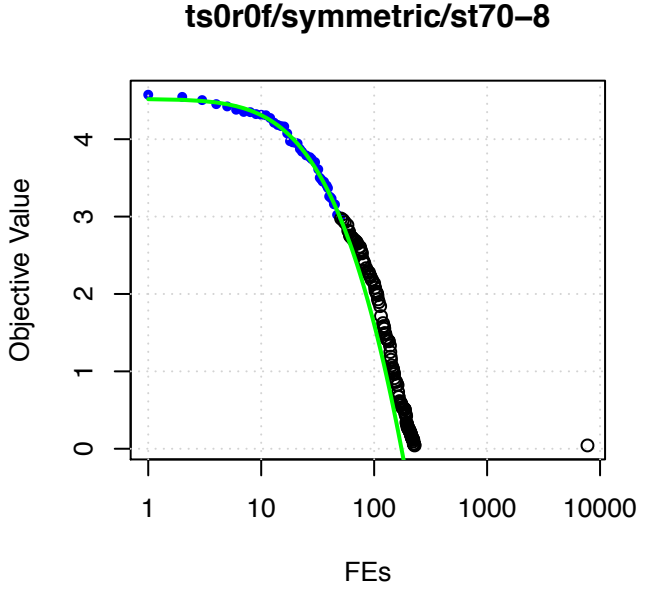
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FEs
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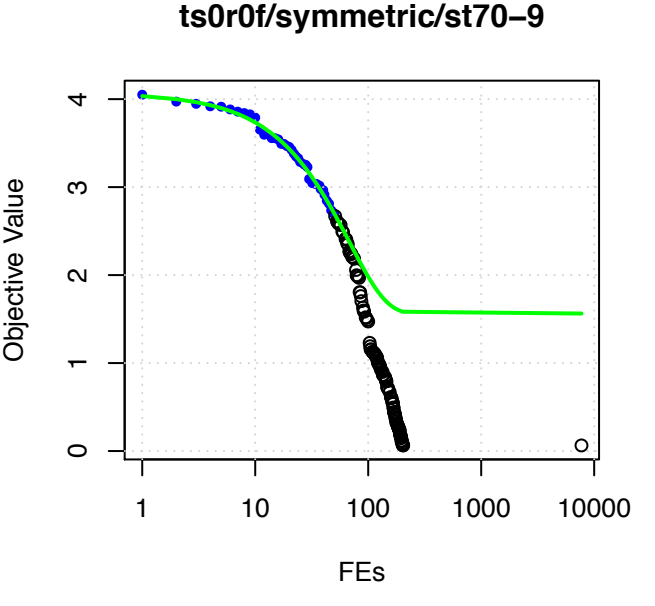
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Objective Value
FEs
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1000
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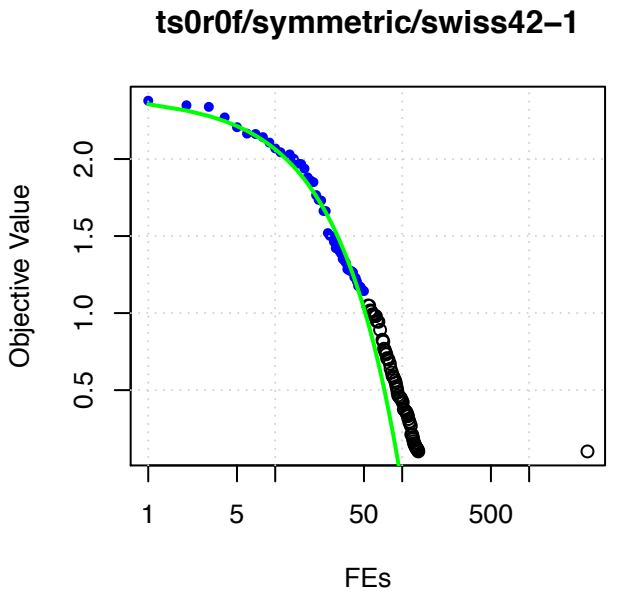
ts0r0f/symmetric/swiss42−1
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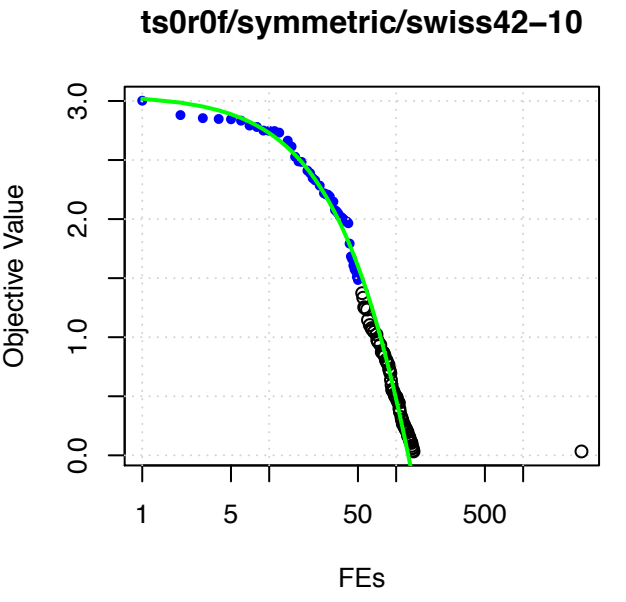
500
FEs


ts0r0f/symmetric/swiss42−10
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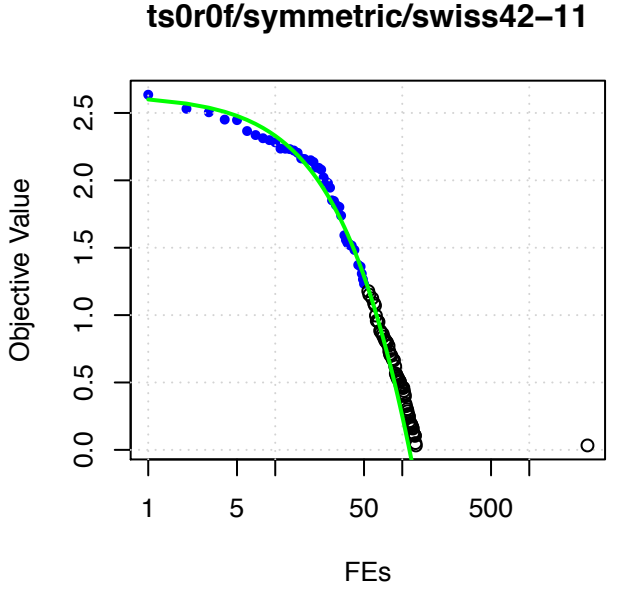
500
FEs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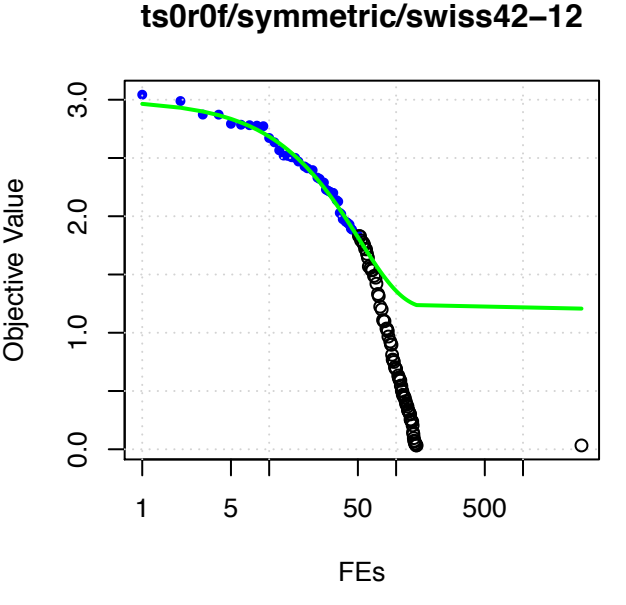
FEs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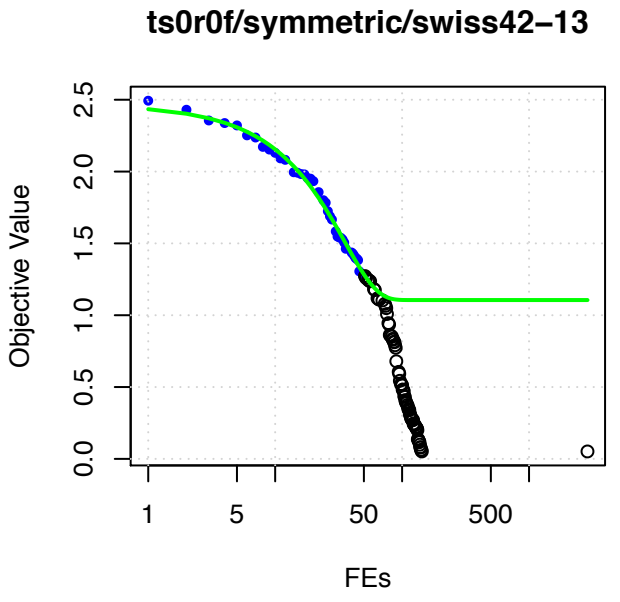
FEs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1.5
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1
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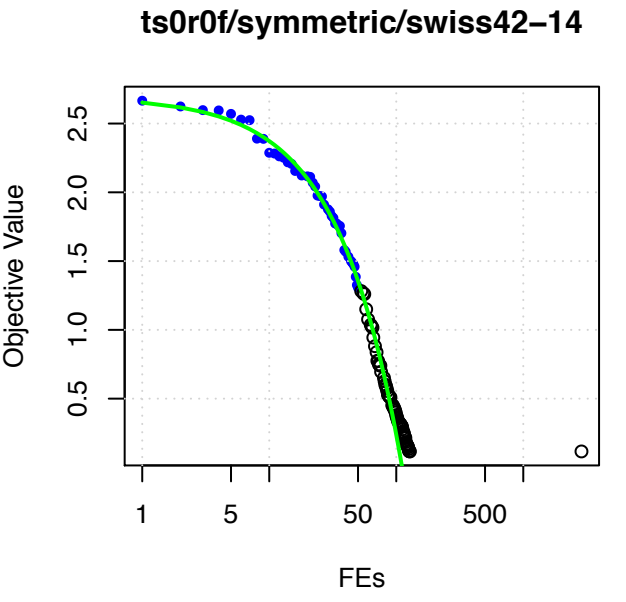
FEs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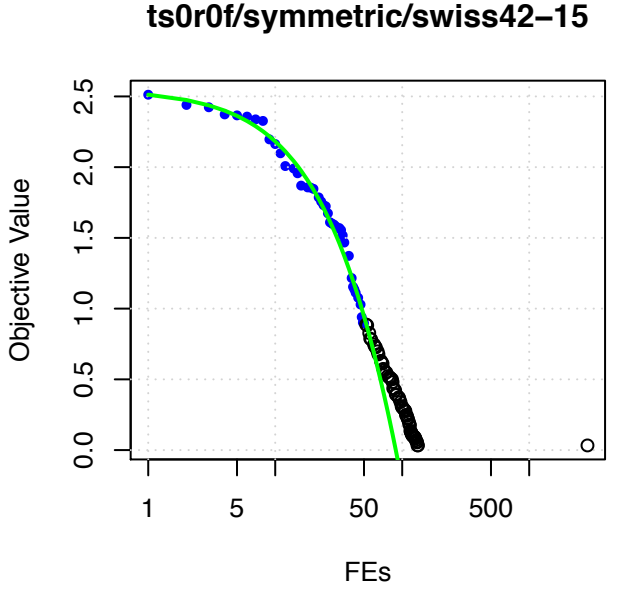
FEs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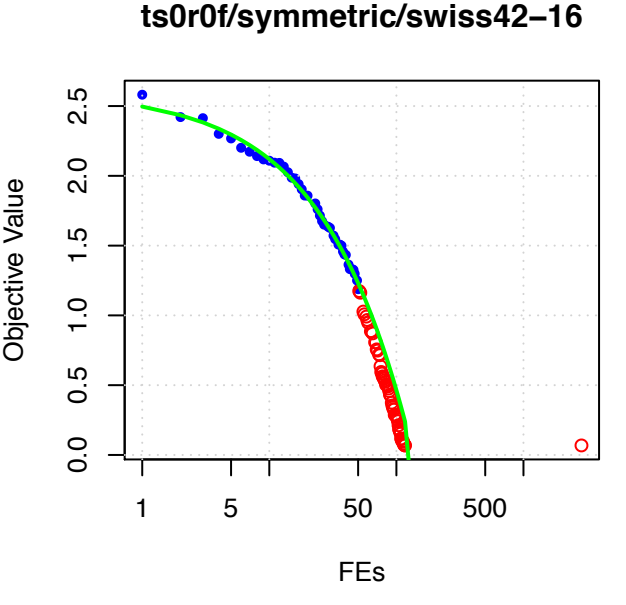
ts0r0f/symmetric/swiss42−16
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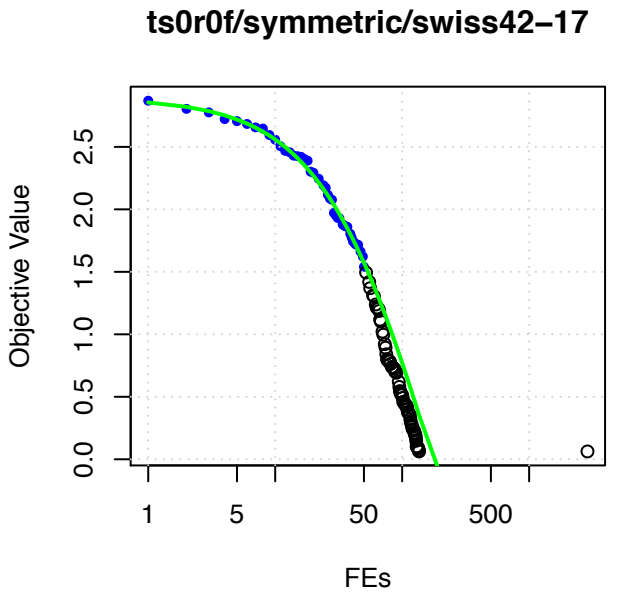
FEs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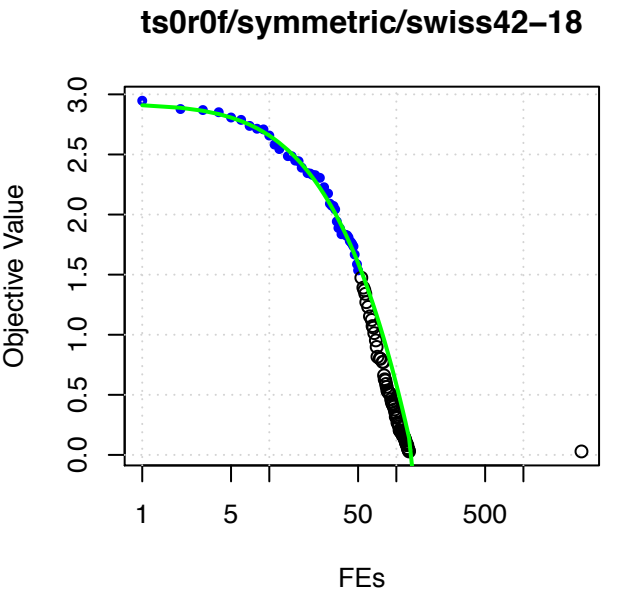
FEs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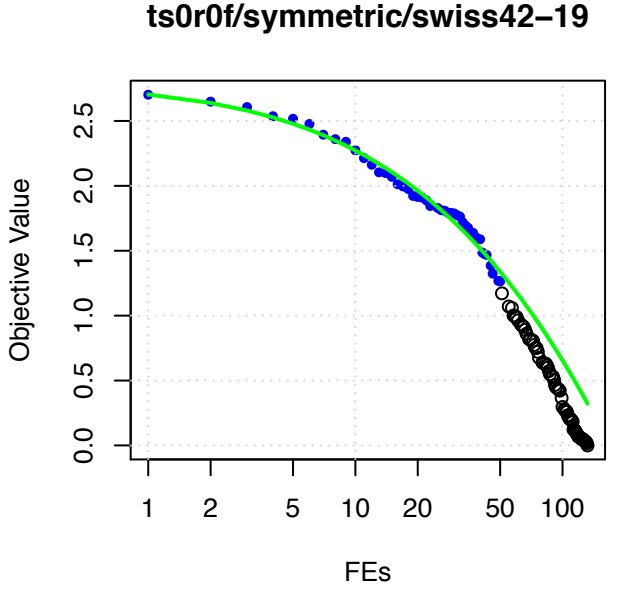
FEs


ts0r0f/symmetric/swiss42−19
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2
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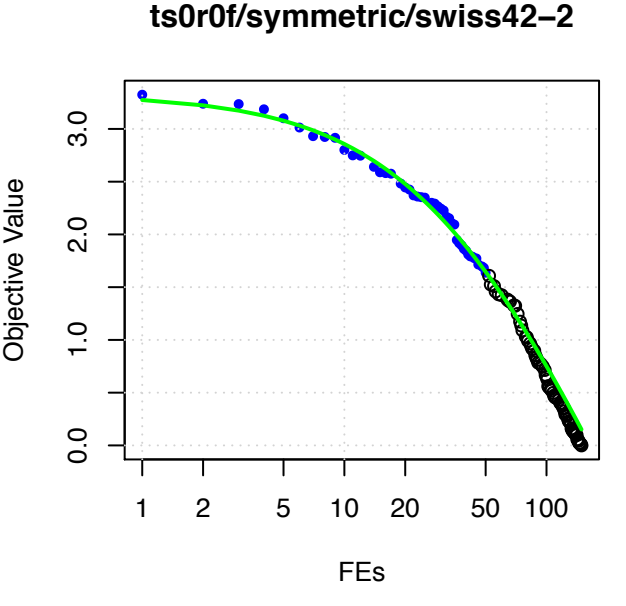
20
50
100
FEs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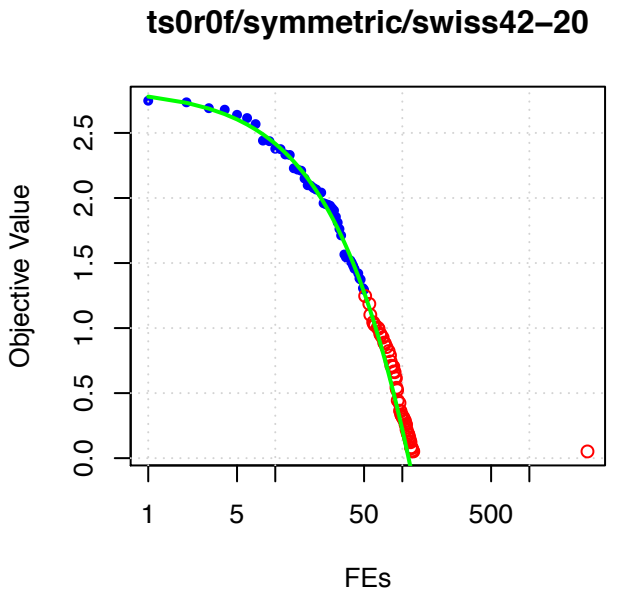
10
20
50
100
FEs


ts0r0f/symmetric/swiss42−20
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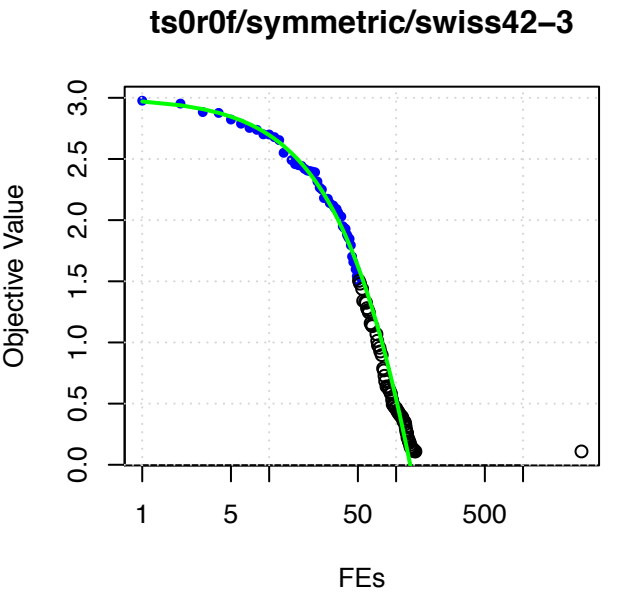
1
5
50
500
FEs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2.5
3.0
1
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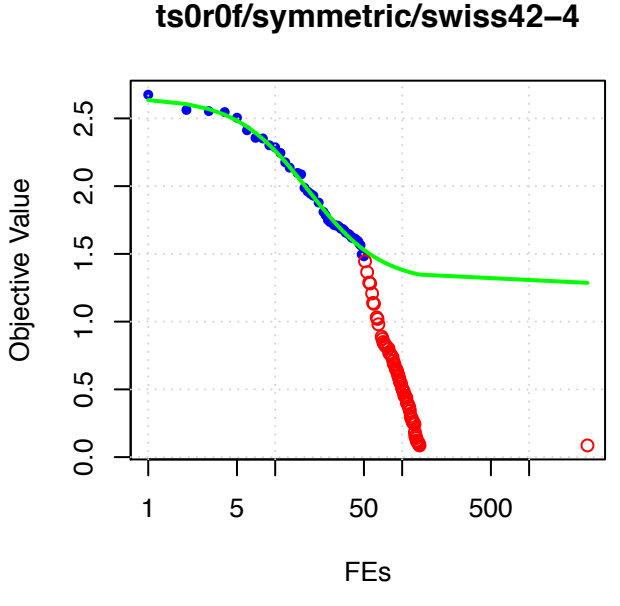
50
500
FEs


ts0r0f/symmetric/swiss42−4
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5
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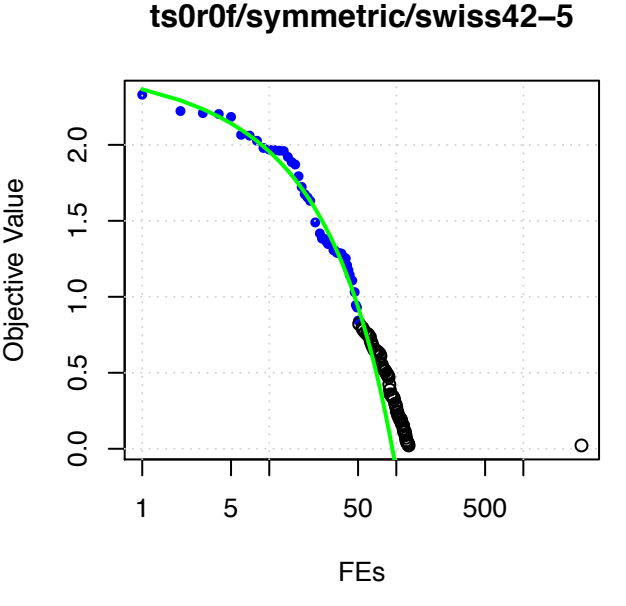
FEs


ts0r0f/symmetric/swiss42−5
Objective Value
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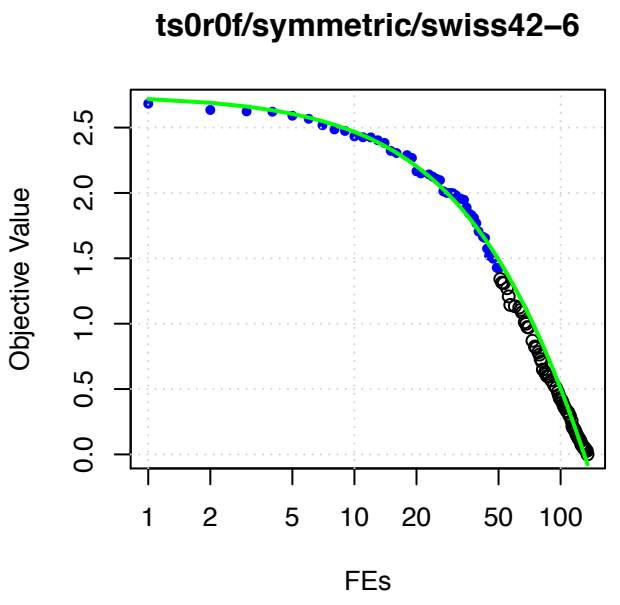
5
50
500
FEs


ts0r0f/symmetric/swiss42−6
Objective Value
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1.5
2.0
2.5
1
2
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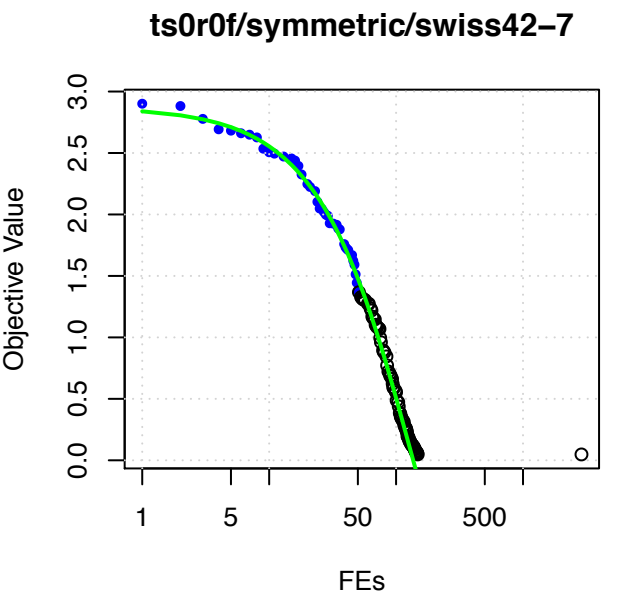
20
50
100
FEs


ts0r0f/symmetric/swiss42−7
Objective Value
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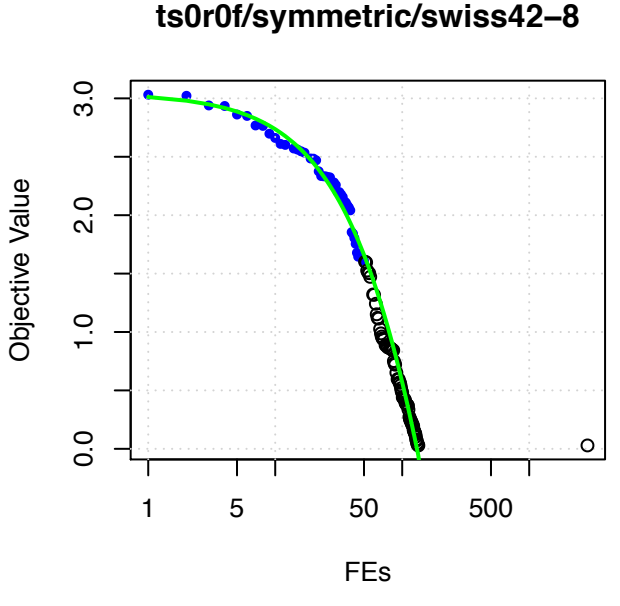
2.5
3.0
1
5
50
500
FEs


ts0r0f/symmetric/swiss42−8
Objective Value
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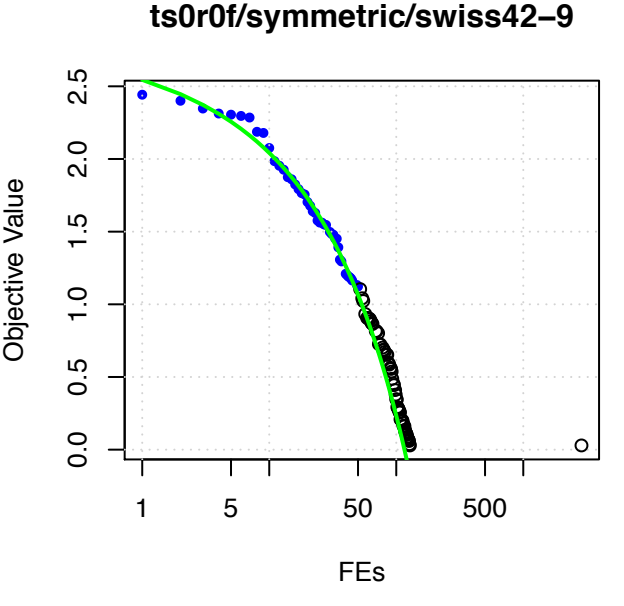
50
500
FEs


ts0r0f/symmetric/swiss42−9
Objective Value
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1.5
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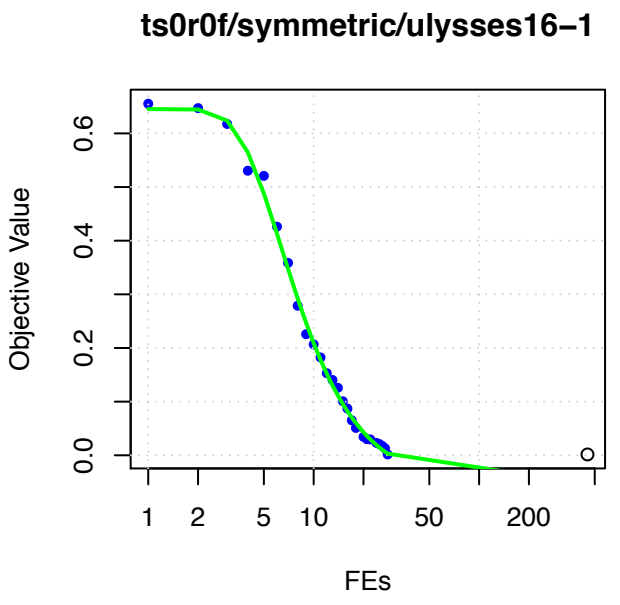
1
5
50
500
FEs


ts0r0f/symmetric/ulysses16−1
Objective Value
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0.4
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2
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10
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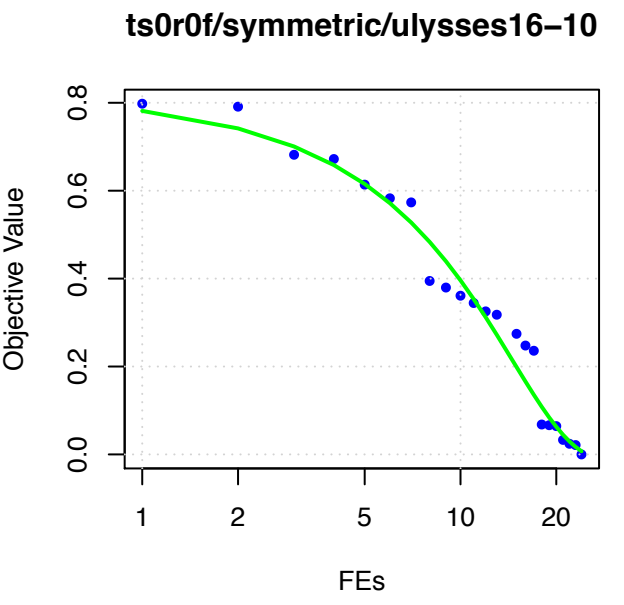
200
FEs


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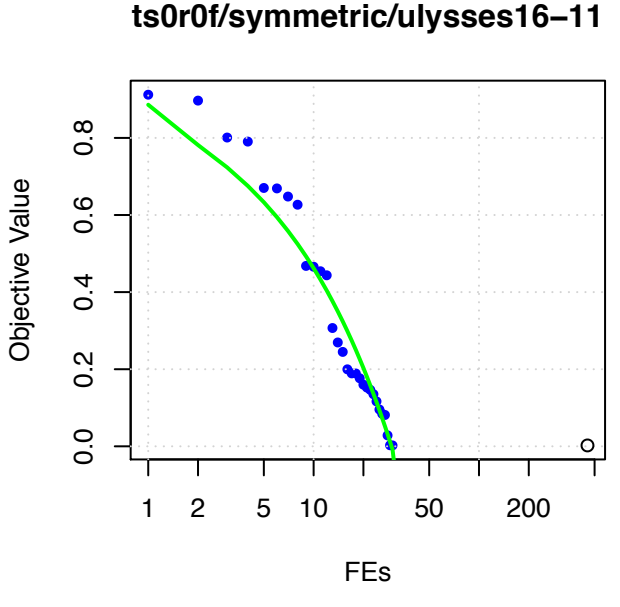
0.2
0.4
0.6
0.8
1
2
5
10
20
FEs


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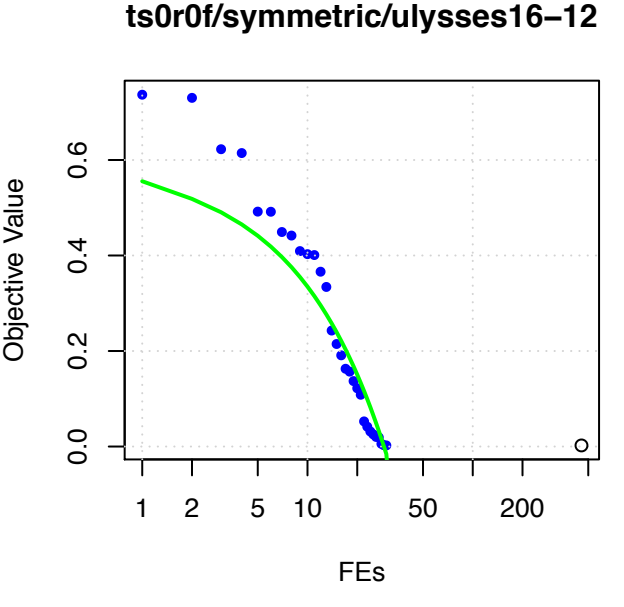
0.2
0.4
0.6
0.8
1
2
5
10
50
200
FEs


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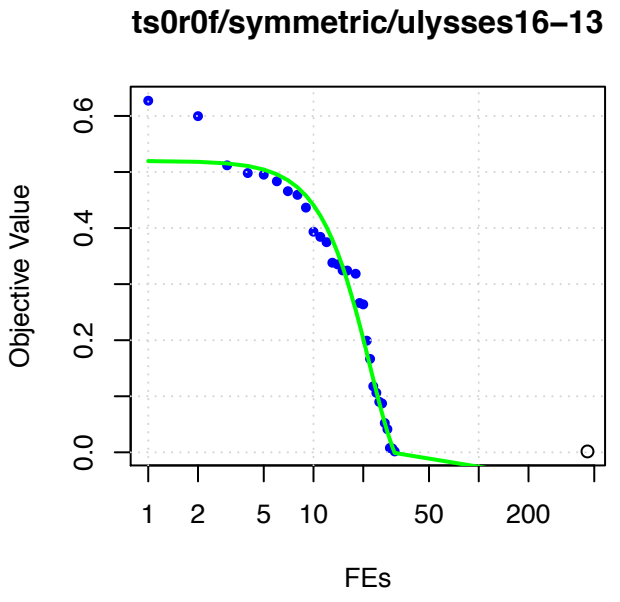
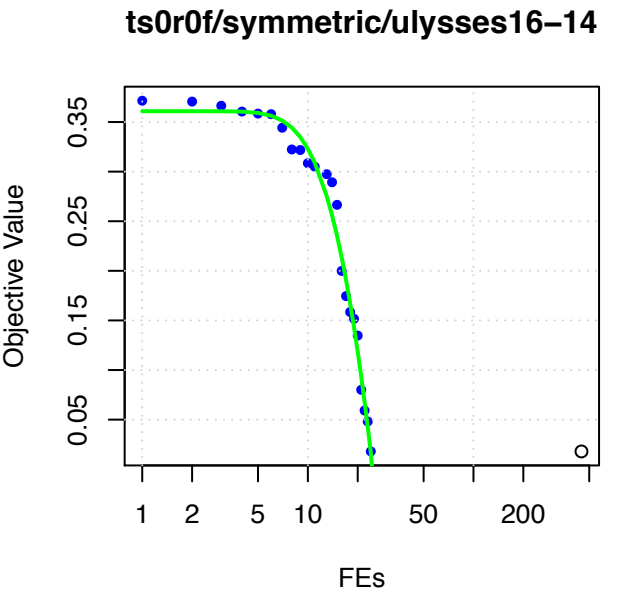
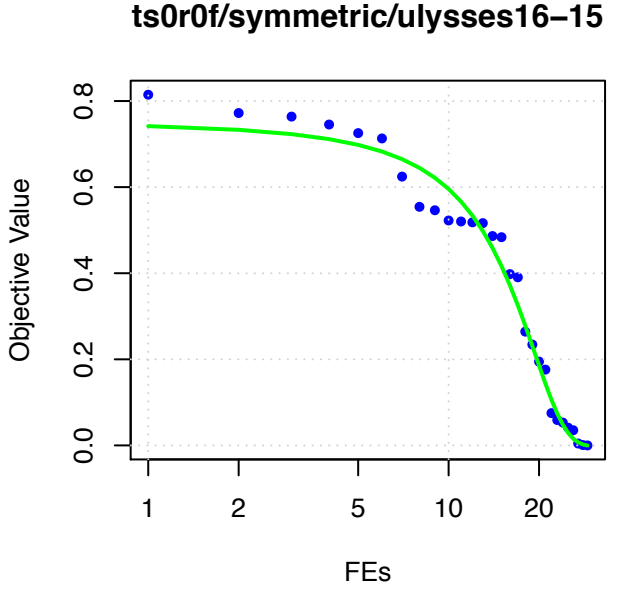
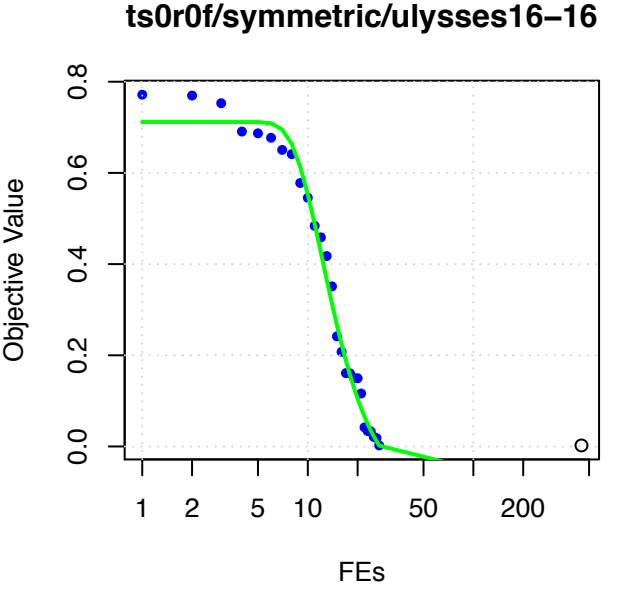
0.2
0.4
0.6
1
2
5
10
50
200
FEs


ts0r0f/symmetric/ulysses16−13
Objective Value
0.0
0.2
0.4
0.6
1
2
5
10
50
200
FEs


ts0r0f/symmetric/ulysses16−14
Objective Value
0.05
0.15
0.25
0.35
1
2
5
10
50
200
FEs


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


ts0r0f/symmetric/ulysses16−16
Objective Value
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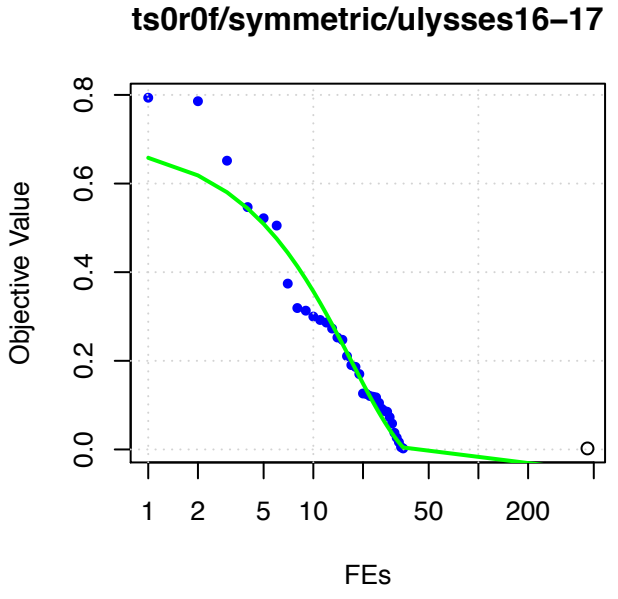
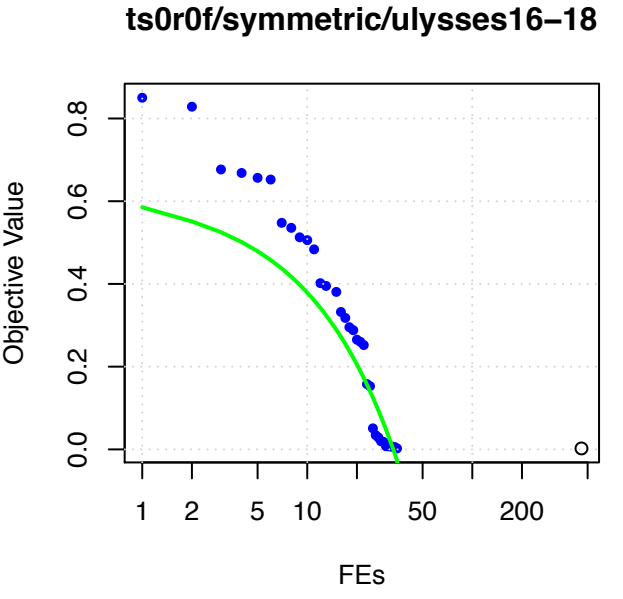
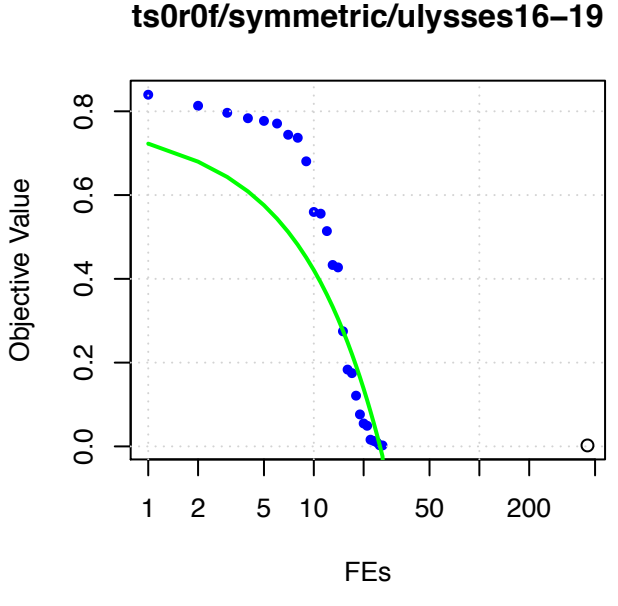
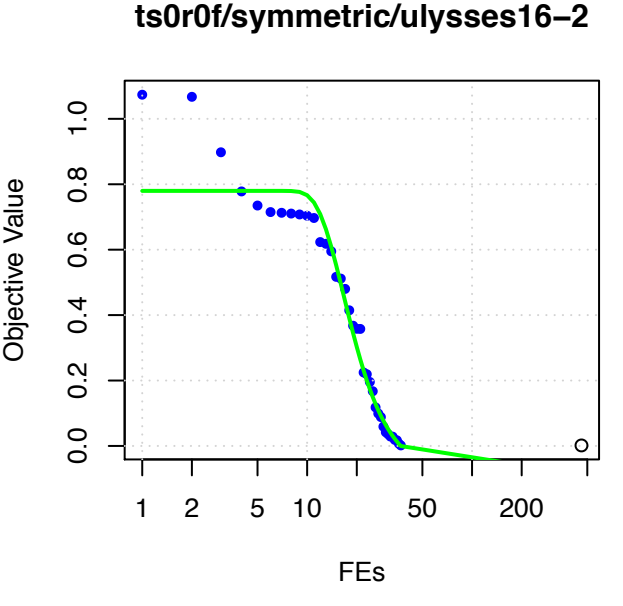
0.2
0.4
0.6
0.8
1
2
5
10
50
200
FEs


ts0r0f/symmetric/ulysses16−17
Objective Value
0.0
0.2
0.4
0.6
0.8
1
2
5
10
50
200
FEs


ts0r0f/symmetric/ulysses16−18
Objective Value
0.0
0.2
0.4
0.6
0.8
1
2
5
10
50
200
FEs


ts0r0f/symmetric/ulysses16−19
Objective Value
0.0
0.2
0.4
0.6
0.8
1
2
5
10
50
200
FEs


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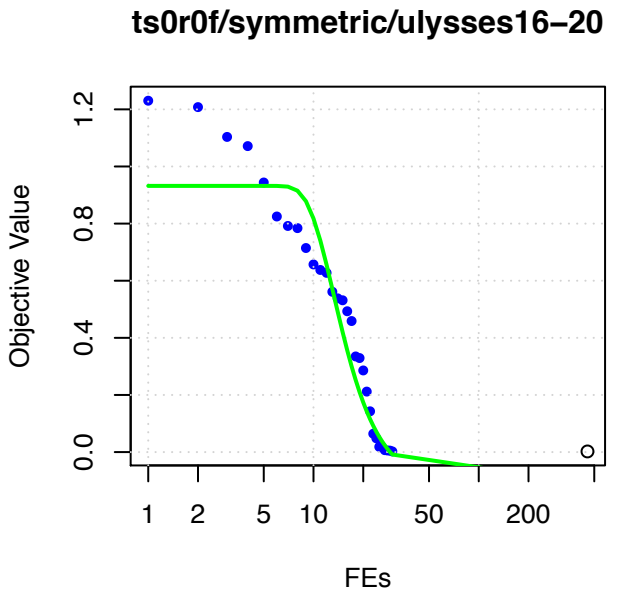
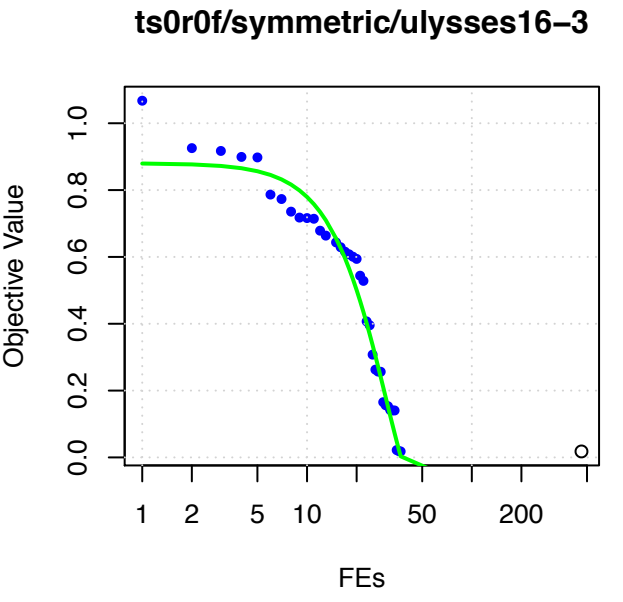
0.2
0.4
0.6
0.8
1.0
1
2
5
10
50
200
FEs


ts0r0f/symmetric/ulysses16−20
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
50
200
FEs


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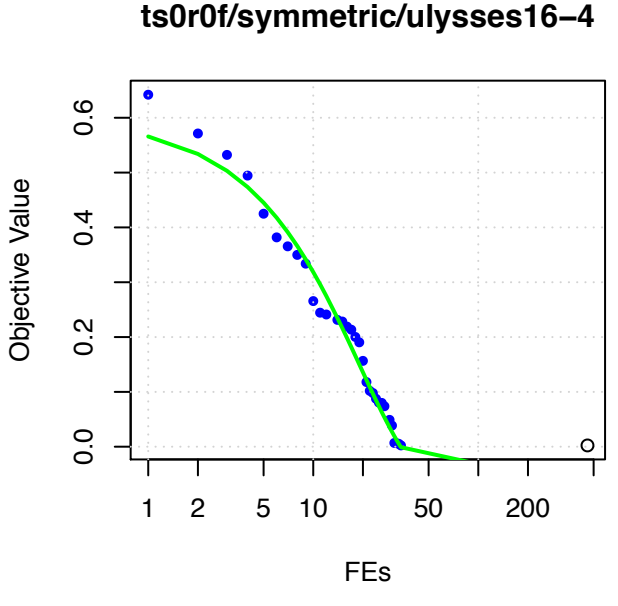
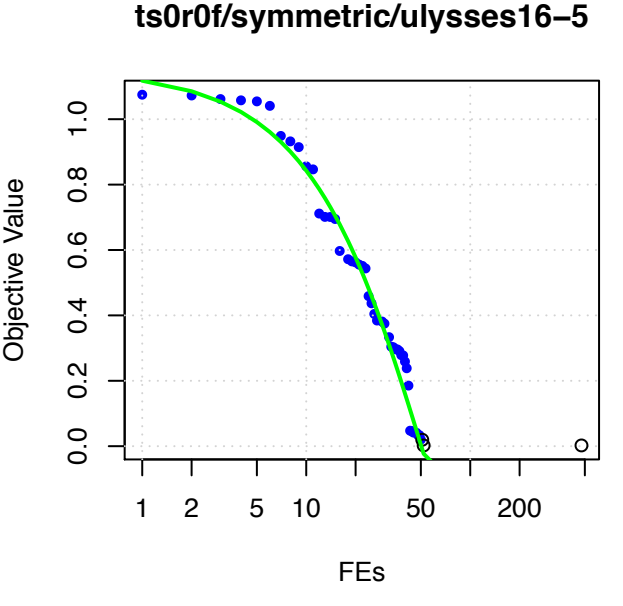
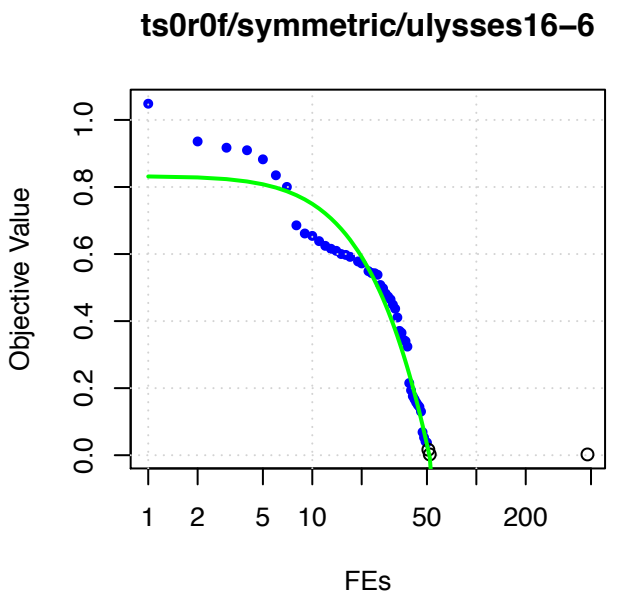
0.2
0.4
0.6
0.8
1.0
1
2
5
10
50
200
FEs


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


ts0r0f/symmetric/ulysses16−5
Objective Value
0.0
0.2
0.4
0.6
0.8
1.0
1
2
5
10
50
200
FEs


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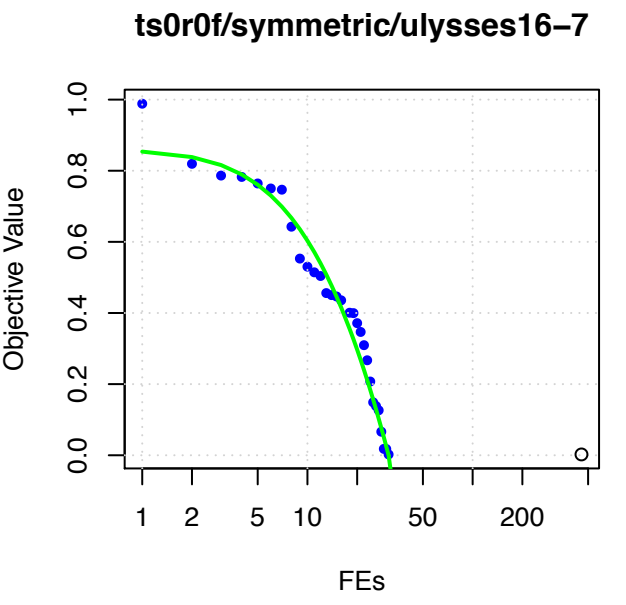
0.2
0.4
0.6
0.8
1.0
1
2
5
10
50
200
FEs


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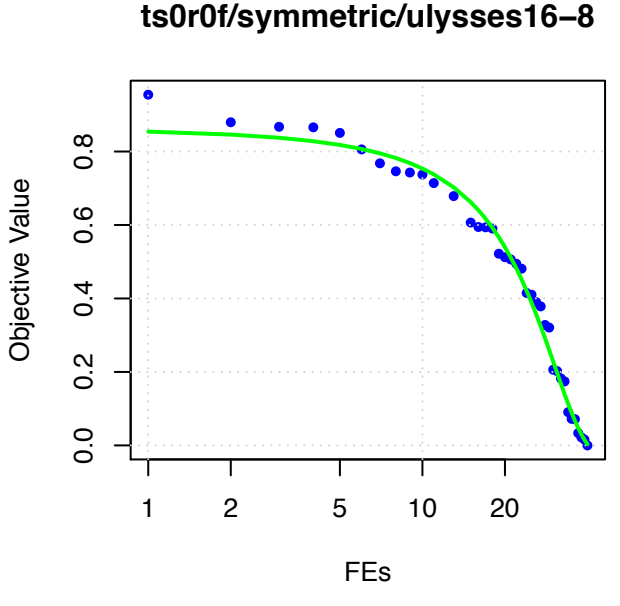
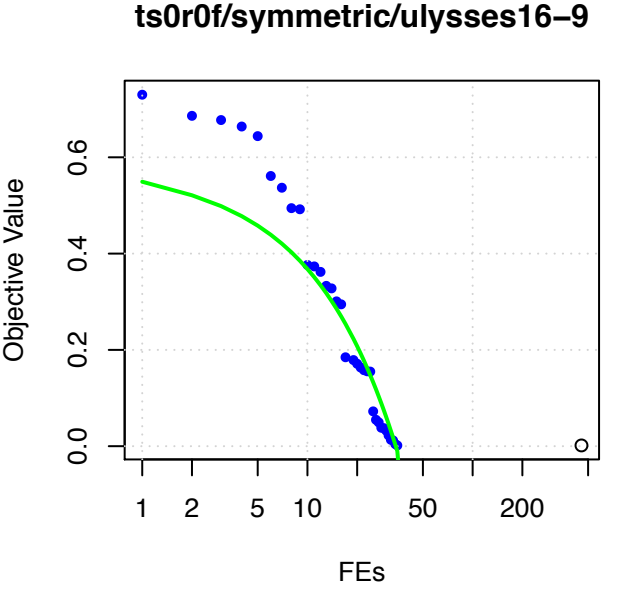
0.2
0.4
0.6
0.8
1.0
1
2
5
10
50
200
FEs


ts0r0f/symmetric/ulysses16−8
Objective Value
0.0
0.2
0.4
0.6
0.8
1
2
5
10
20
FEs


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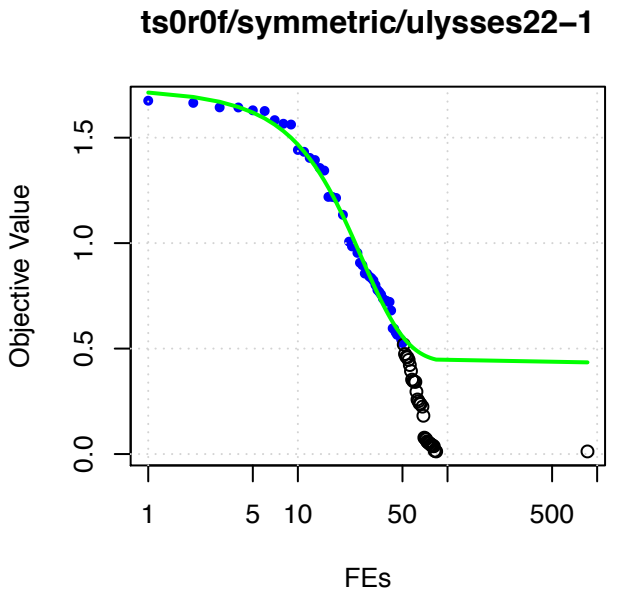
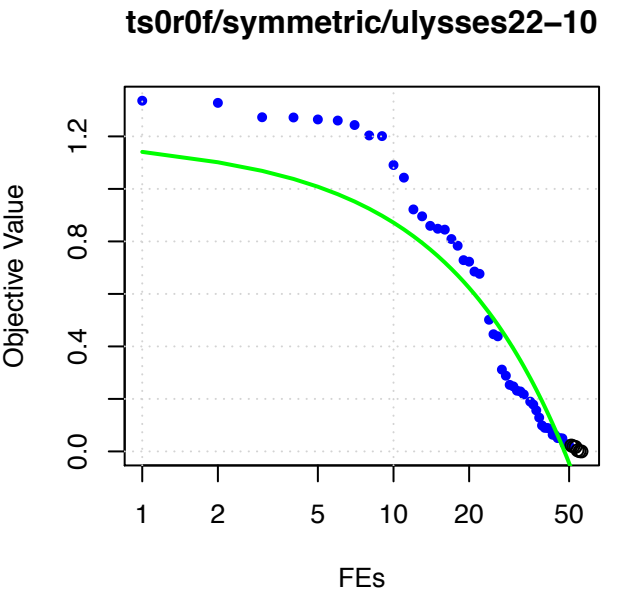
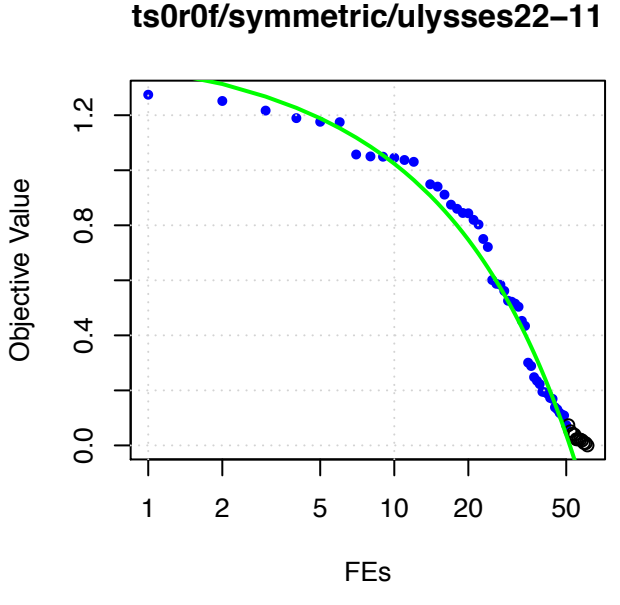
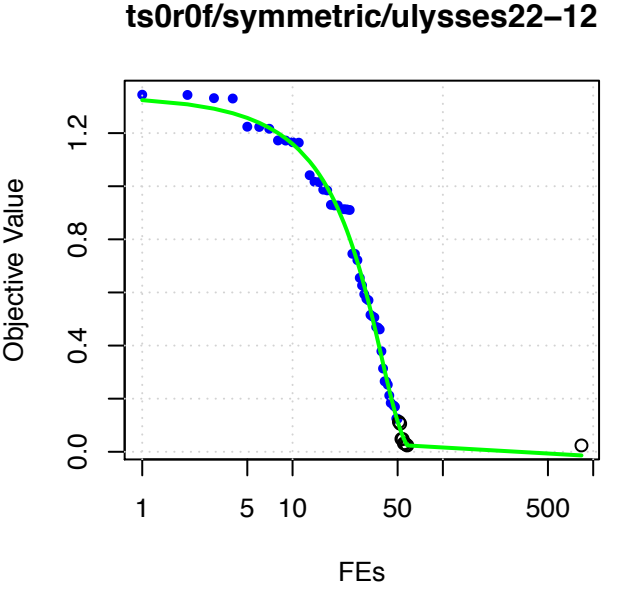
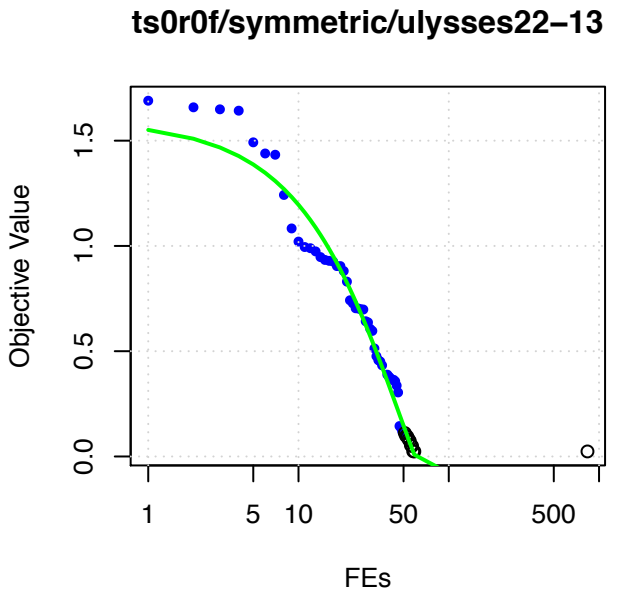
0.2
0.4
0.6
1
2
5
10
50
200
FEs


ts0r0f/symmetric/ulysses22−1
Objective Value
0.0
0.5
1.0
1.5
1
5
10
50
500
FEs


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


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


ts0r0f/symmetric/ulysses22−12
Objective Value
0.0
0.4
0.8
1.2
1
5
10
50
500
FEs


ts0r0f/symmetric/ulysses22−13
Objective Value
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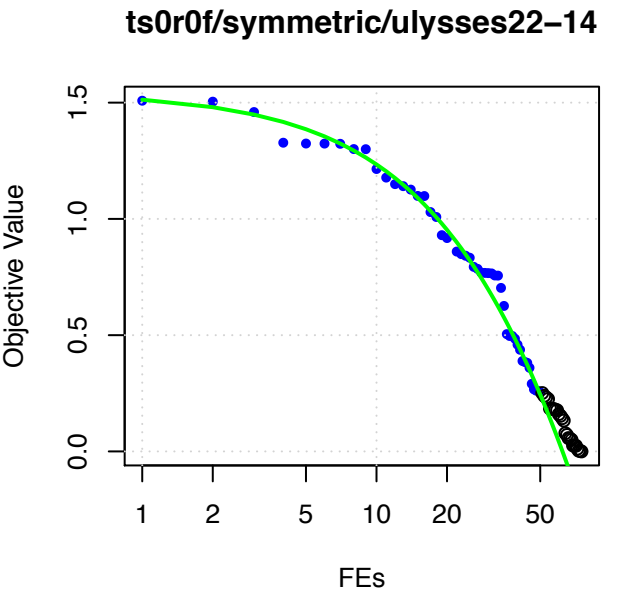
0.5
1.0
1.5
1
5
10
50
500
FEs


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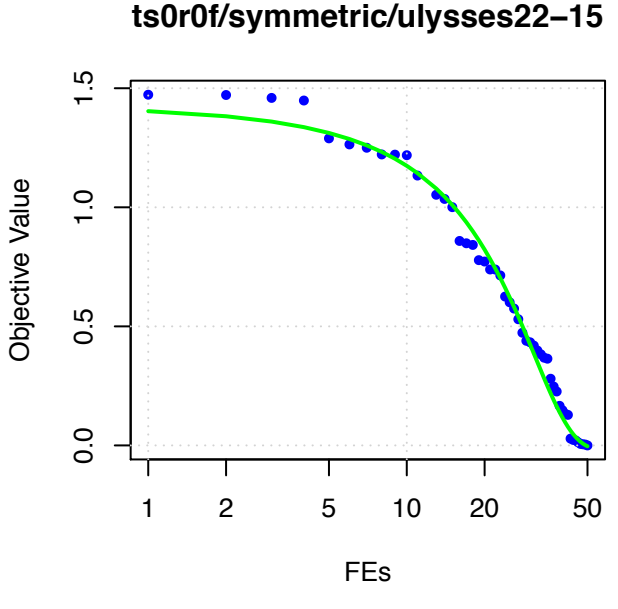
0.5
1.0
1.5
1
2
5
10
20
50
FEs


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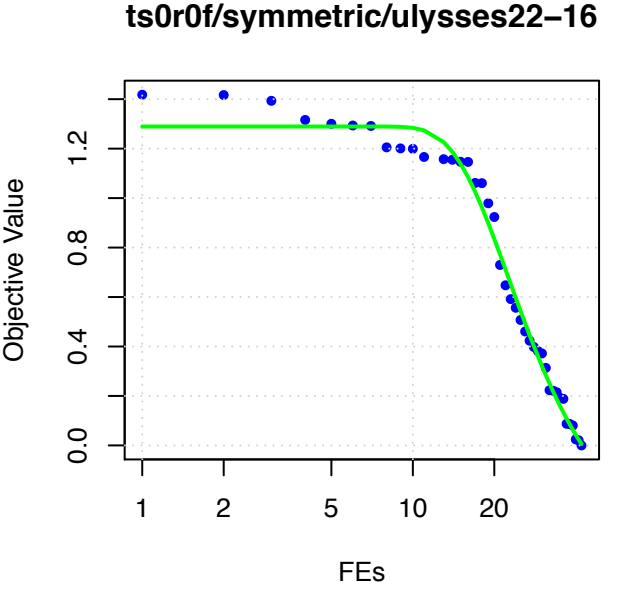
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts0r0f/symmetric/ulysses22−16
Objective Value
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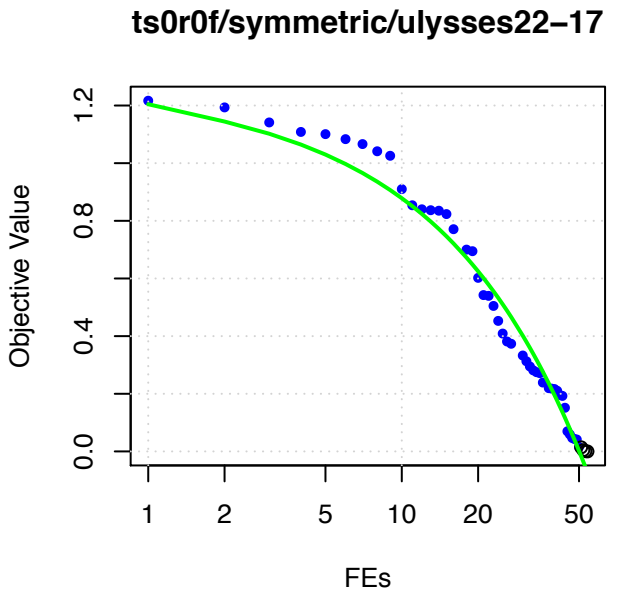
0.4
0.8
1.2
1
2
5
10
20
FEs


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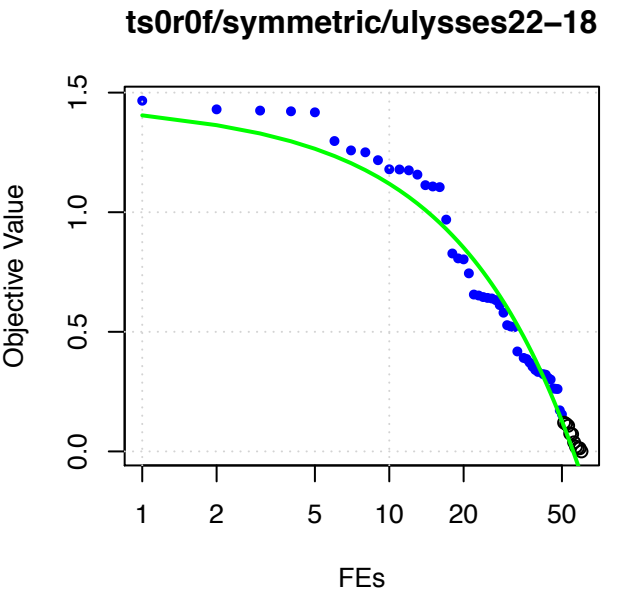
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts0r0f/symmetric/ulysses22−18
Objective Value
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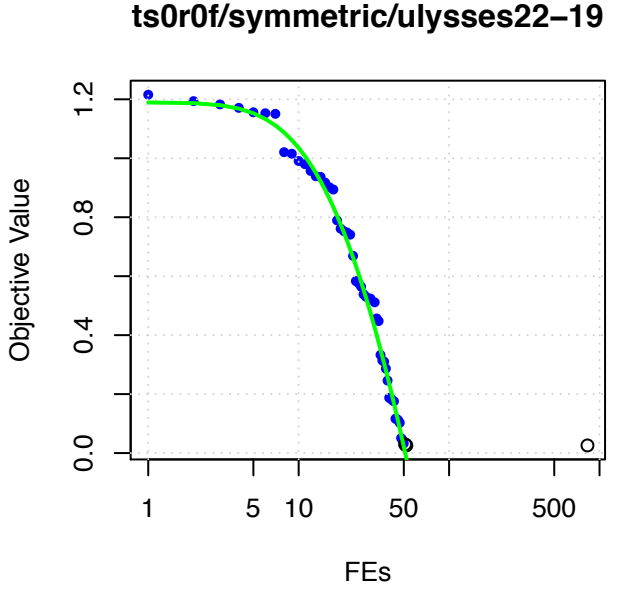
1.0
1.5
1
2
5
10
20
50
FEs


ts0r0f/symmetric/ulysses22−19
Objective Value
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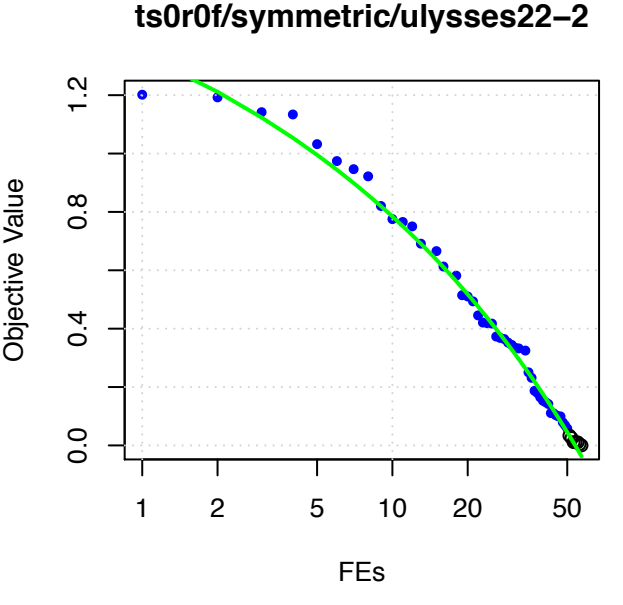
0.4
0.8
1.2
1
5
10
50
500
FEs


ts0r0f/symmetric/ulysses22−2
Objective Value
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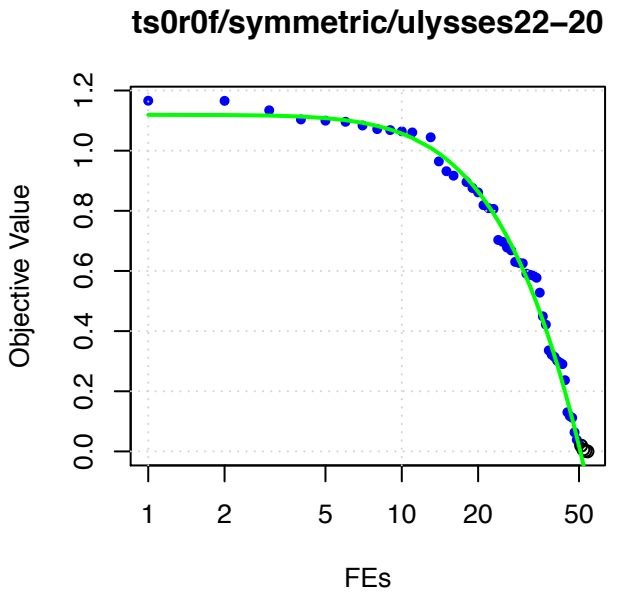
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts0r0f/symmetric/ulysses22−20
Objective Value
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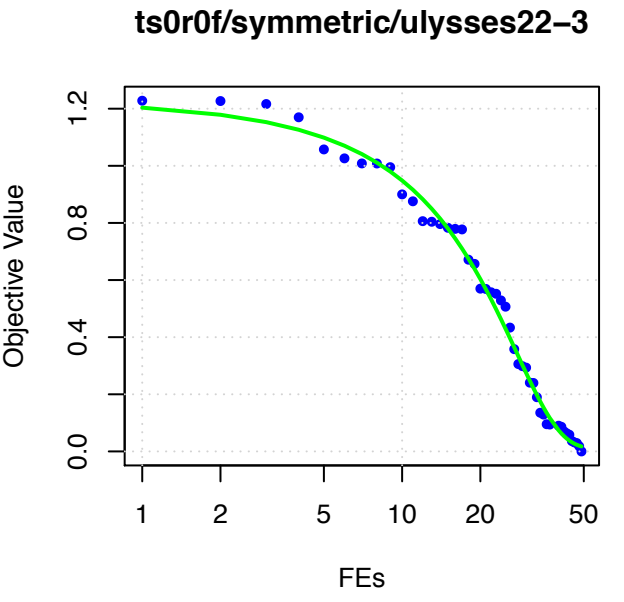
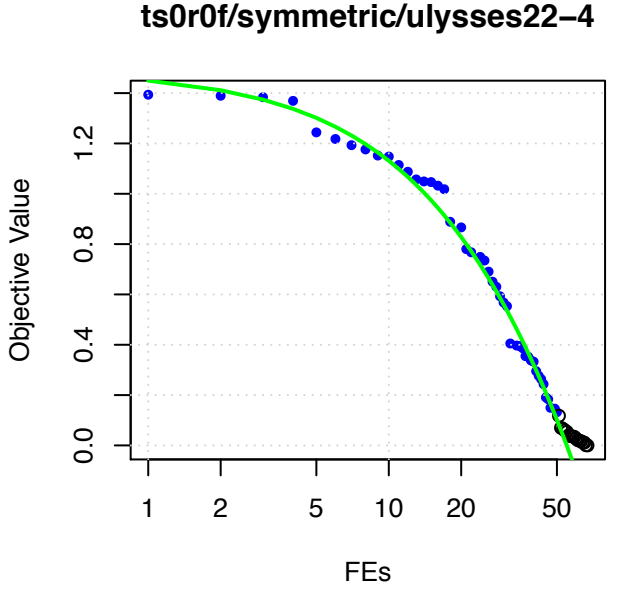
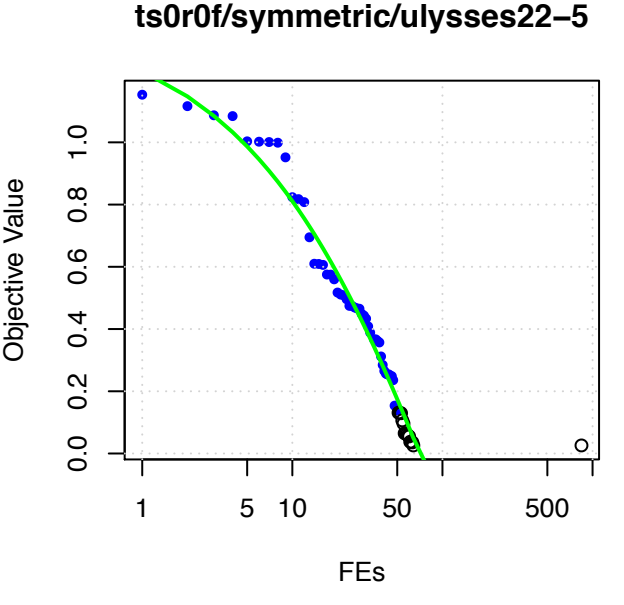
0.4
0.6
0.8
1.0
1.2
1
2
5
10
20
50
FEs


ts0r0f/symmetric/ulysses22−3
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts0r0f/symmetric/ulysses22−4
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts0r0f/symmetric/ulysses22−5
Objective Value
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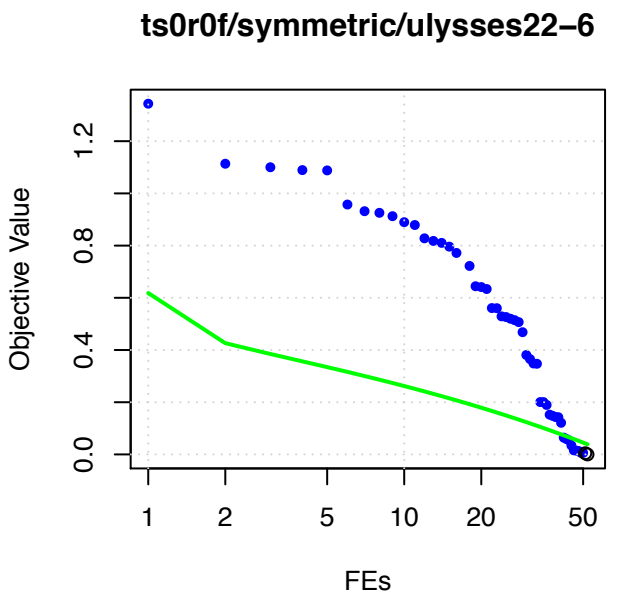
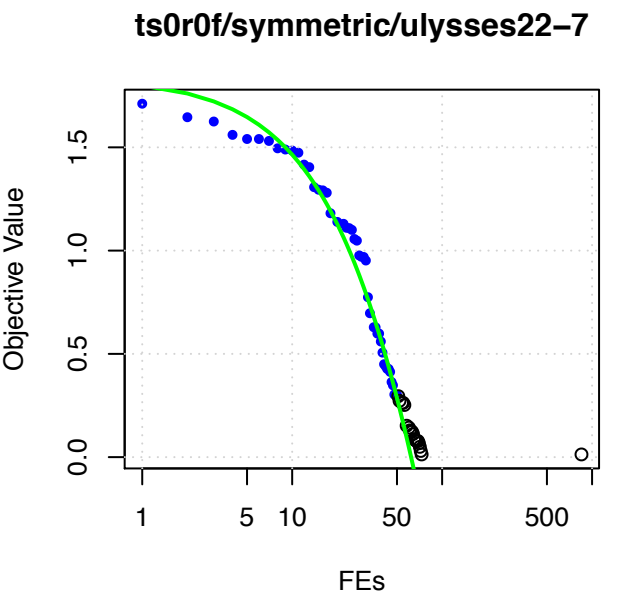
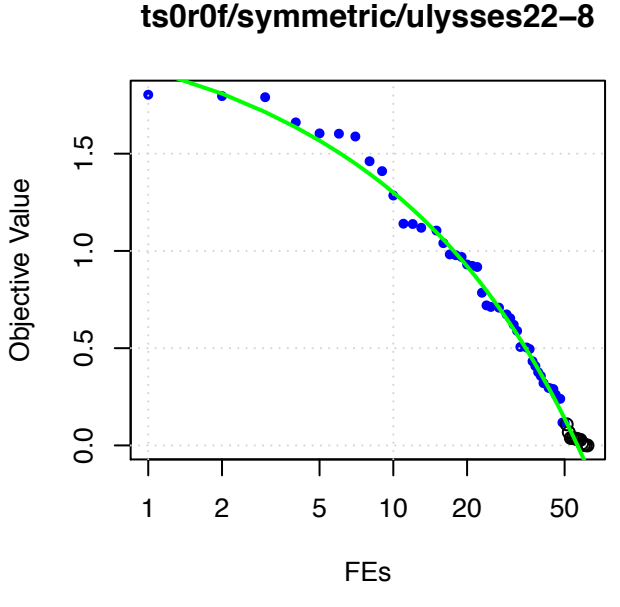
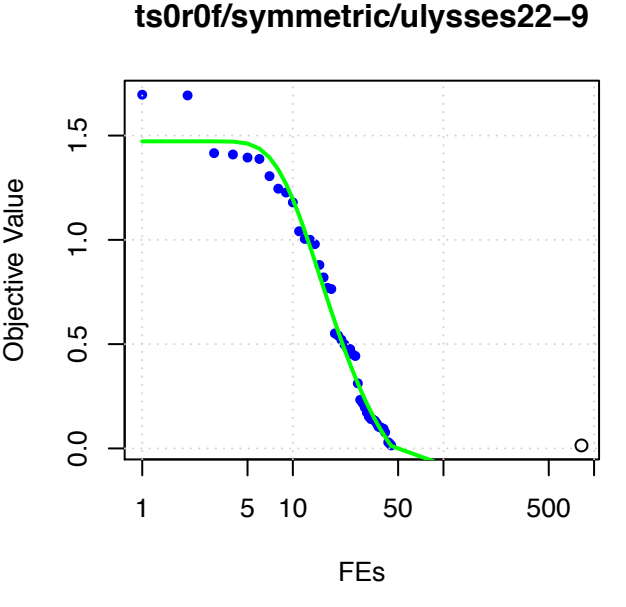
0.2
0.4
0.6
0.8
1.0
1
5
10
50
500
FEs


ts0r0f/symmetric/ulysses22−6
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts0r0f/symmetric/ulysses22−7
Objective Value
0.0
0.5
1.0
1.5
1
5
10
50
500
FEs


ts0r0f/symmetric/ulysses22−8
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
FEs


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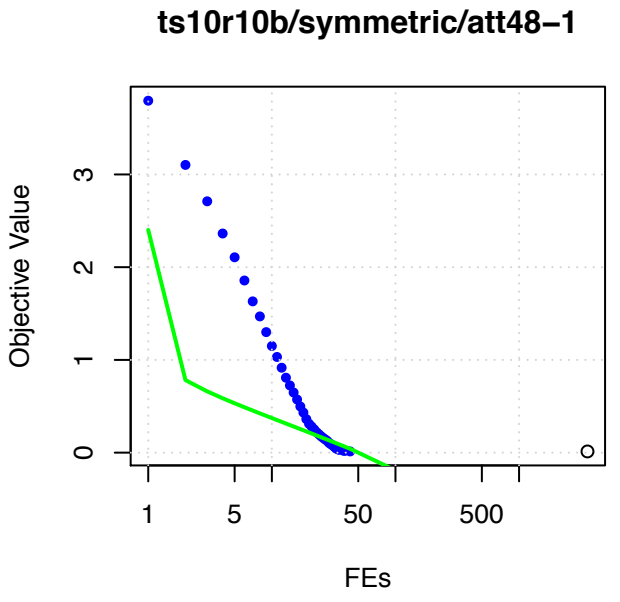
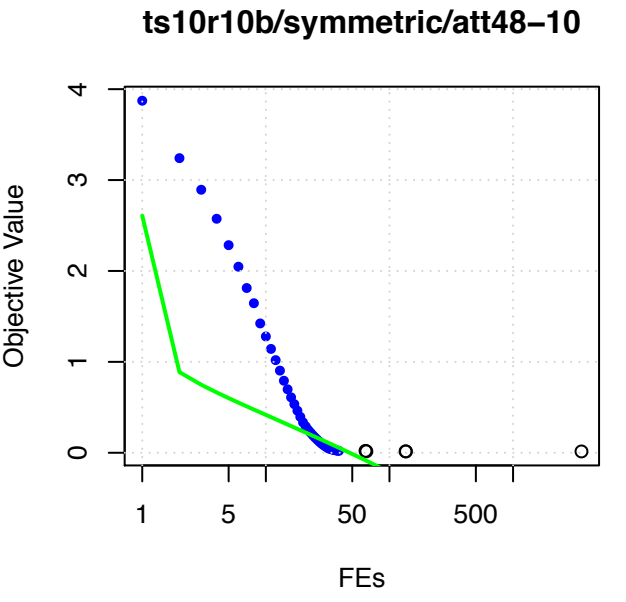
0.5
1.0
1.5
1
5
10
50
500
FEs


ts10r10b/symmetric/att48−1
Objective Value
0
1
2
3
1
5
50
500
FEs


ts10r10b/symmetric/att48−10
Objective Value
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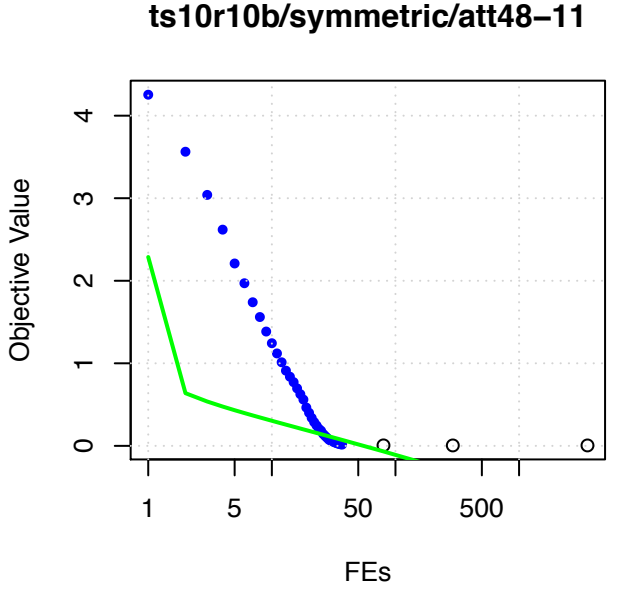
FEs


ts10r10b/symmetric/att48−11
Objective Value
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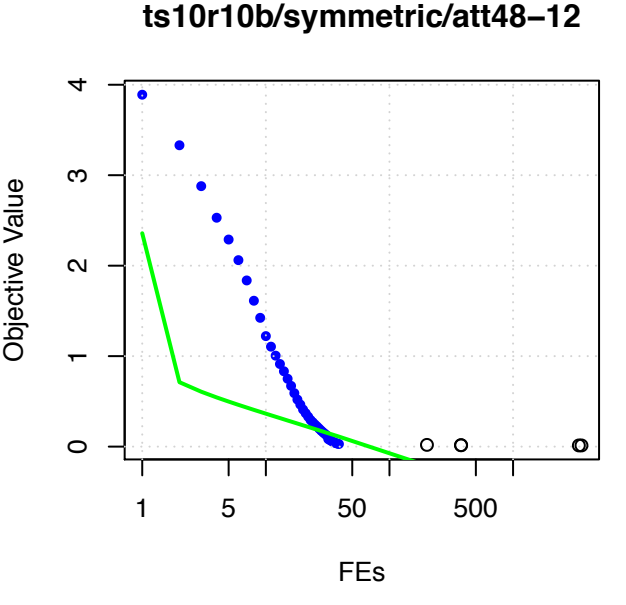
ts10r10b/symmetric/att48−12
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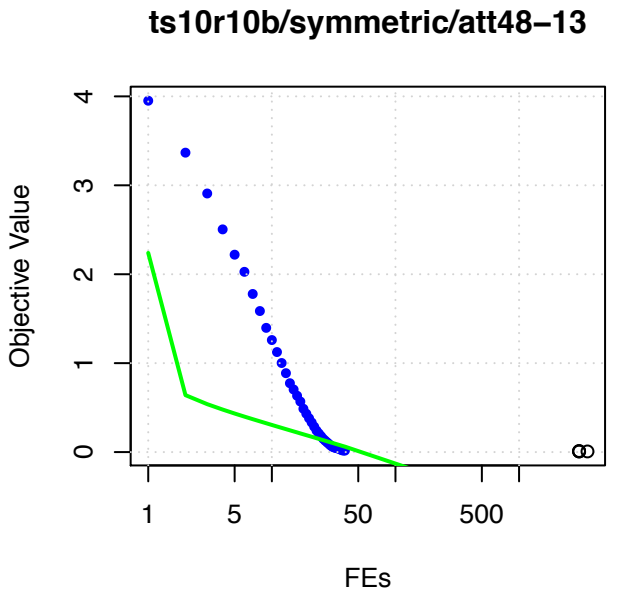
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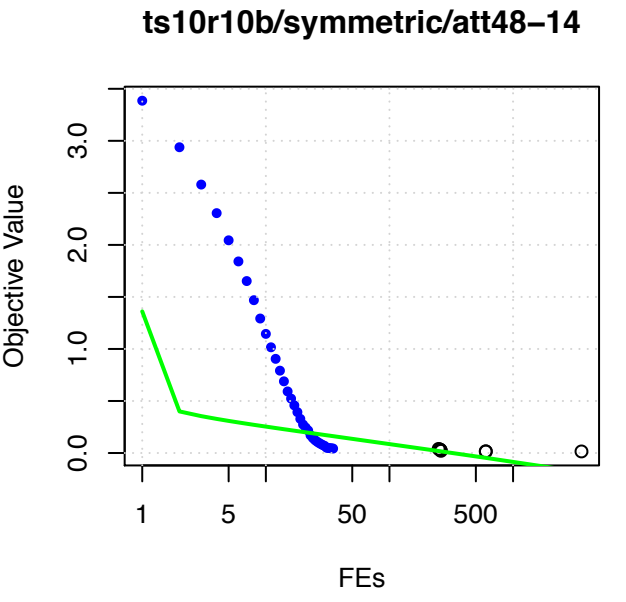
FEs


ts10r10b/symmetric/att48−14
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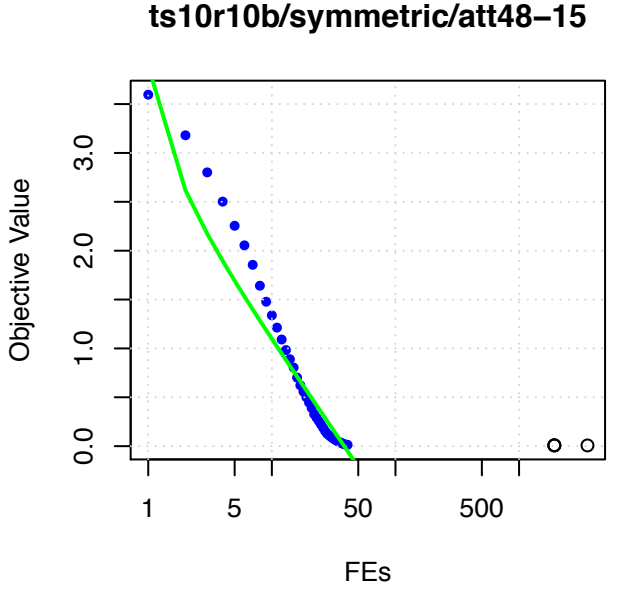
FEs


ts10r10b/symmetric/att48−15
Objective Value
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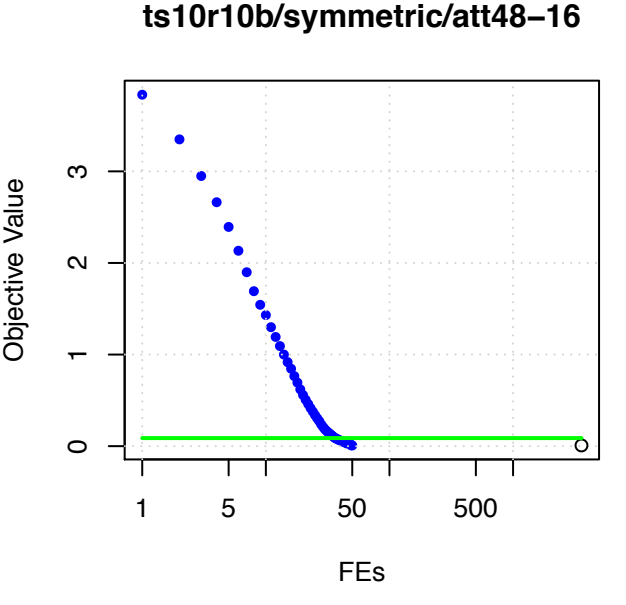
FEs


ts10r10b/symmetric/att48−16
Objective Value
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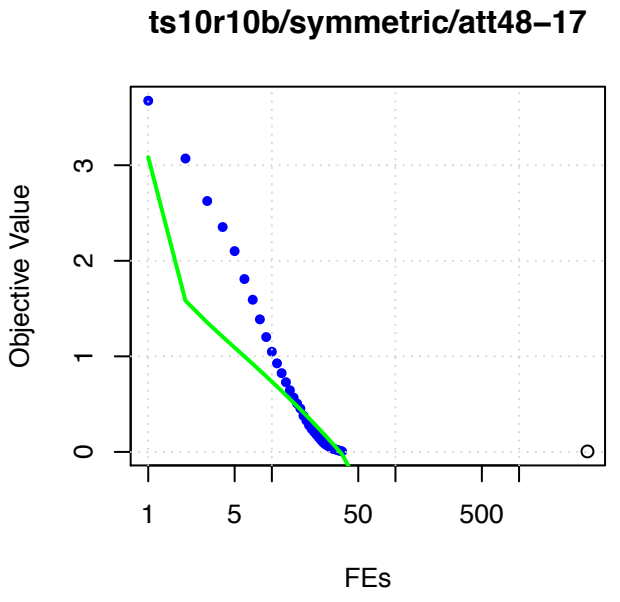
FEs


ts10r10b/symmetric/att48−17
Objective Value
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1
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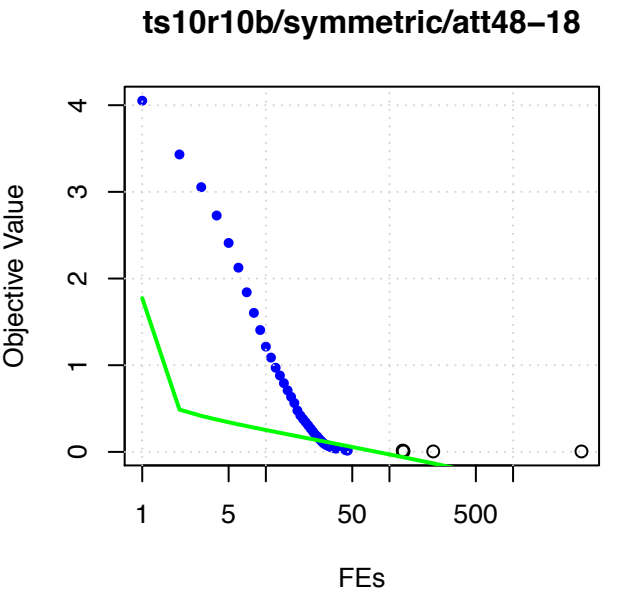
FEs


ts10r10b/symmetric/att48−18
Objective Value
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3
4
1
5
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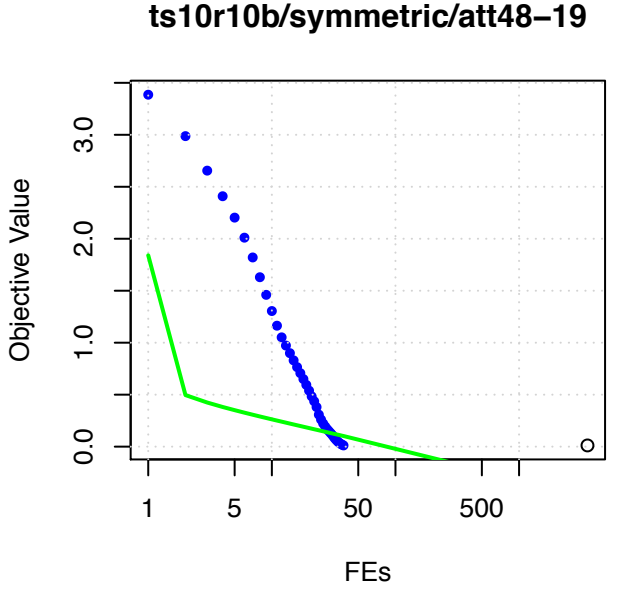
500
FEs


ts10r10b/symmetric/att48−19
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1.0
2.0
3.0
1
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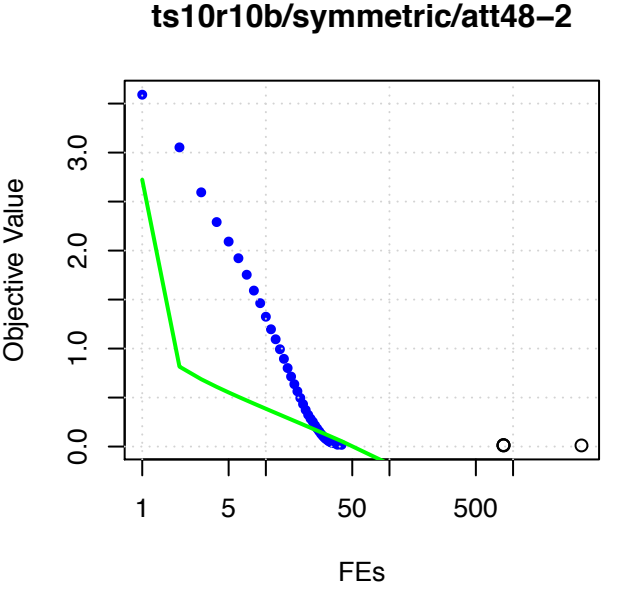
50
500
FEs


ts10r10b/symmetric/att48−2
Objective Value
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3.0
1
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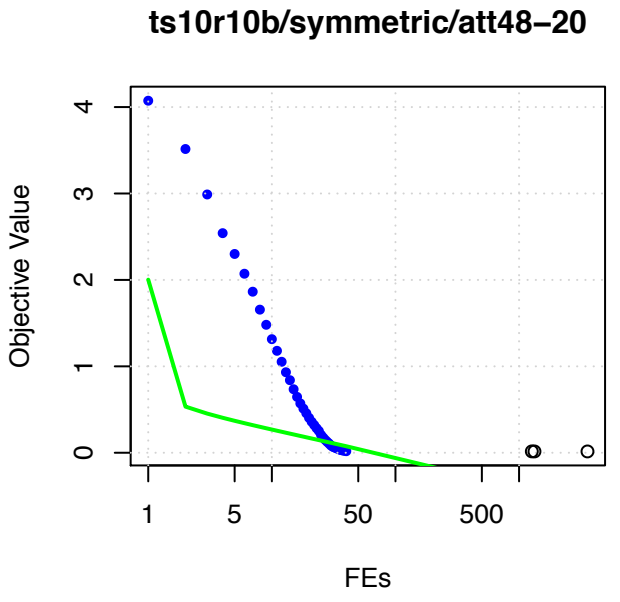
50
500
FEs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Objective Value
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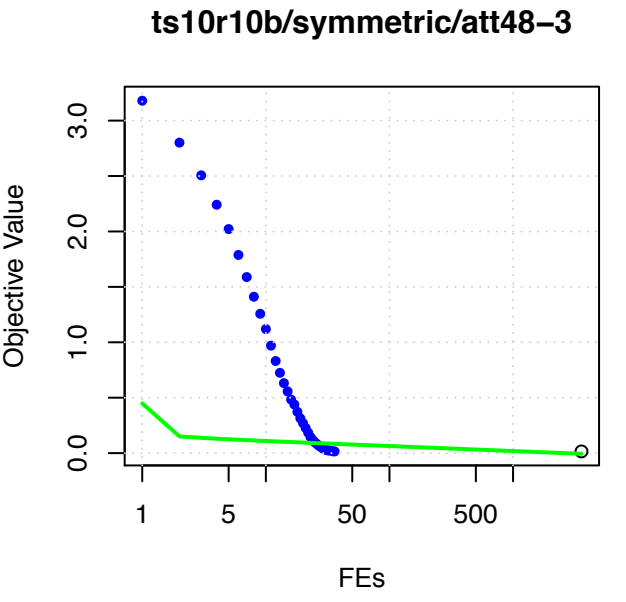
3
4
1
5
50
500
FEs


ts10r10b/symmetric/att48−3
Objective Value
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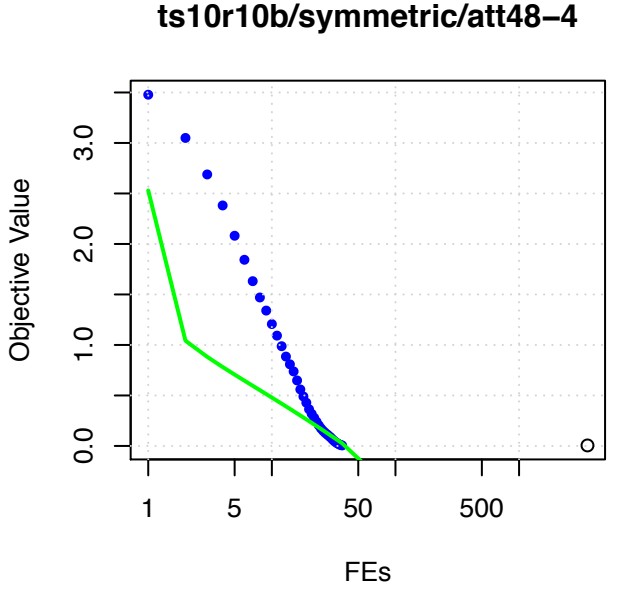
1.0
2.0
3.0
1
5
50
500
FEs


ts10r10b/symmetric/att48−4
Objective Value
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1.0
2.0
3.0
1
5
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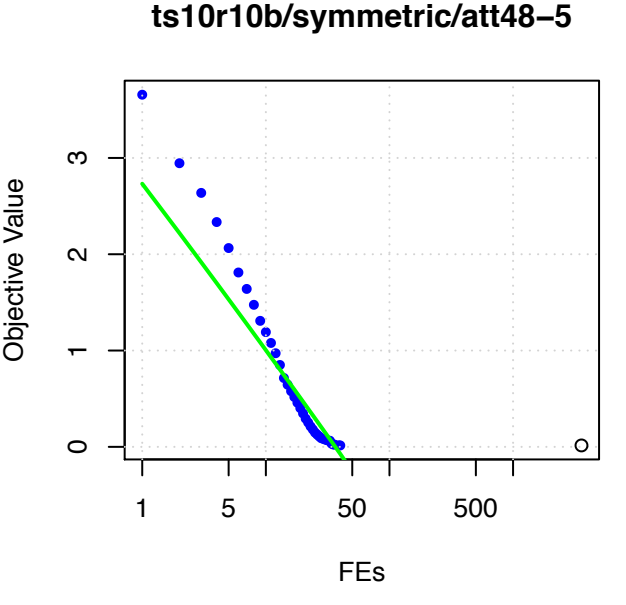
500
FEs


ts10r10b/symmetric/att48−5
Objective Value
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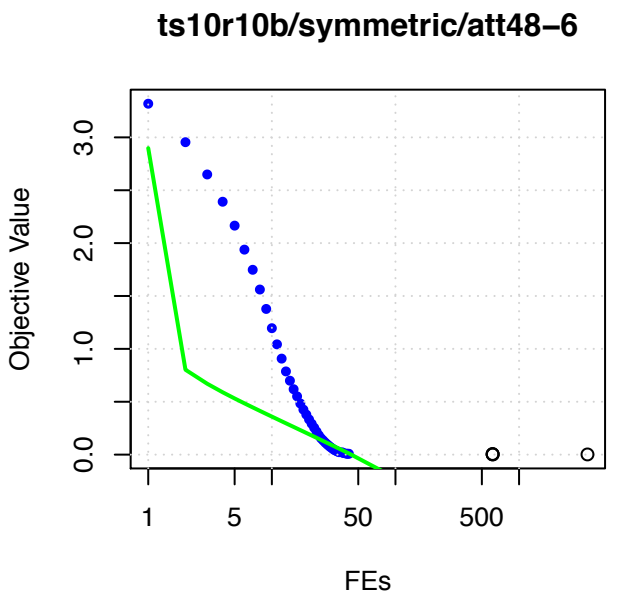
1
5
50
500
FEs


ts10r10b/symmetric/att48−6
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2.0
3.0
1
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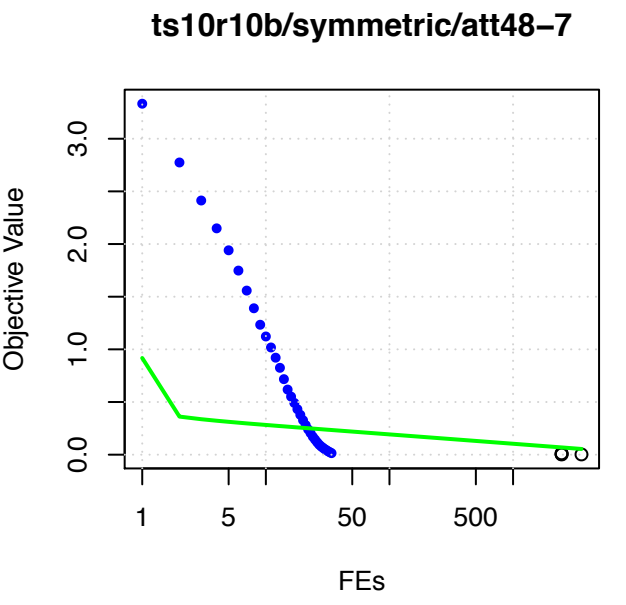
500
FEs


ts10r10b/symmetric/att48−7
Objective Value
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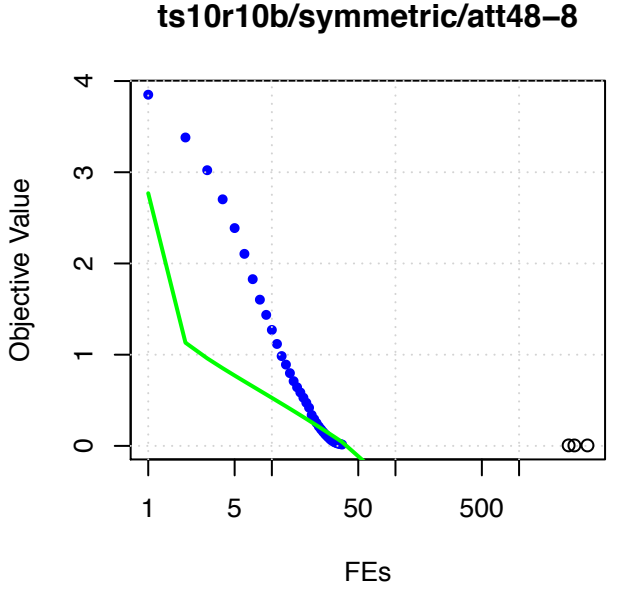
1.0
2.0
3.0
1
5
50
500
FEs


ts10r10b/symmetric/att48−8
Objective Value
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2
3
4
1
5
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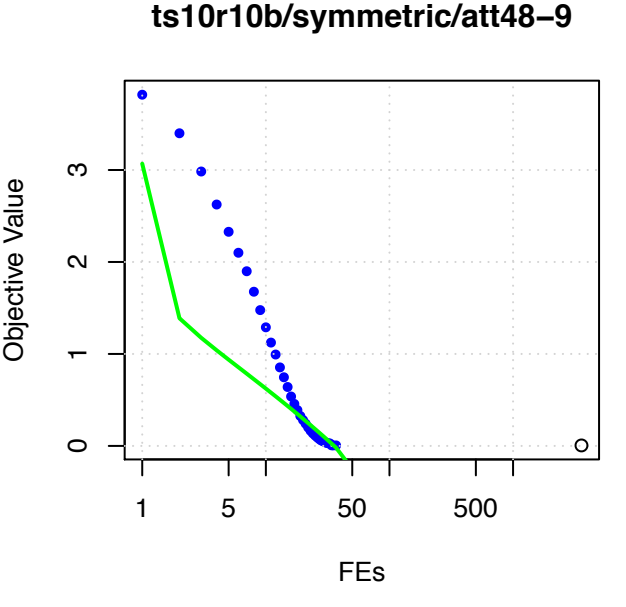
500
FEs


ts10r10b/symmetric/att48−9
Objective Value
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1
5
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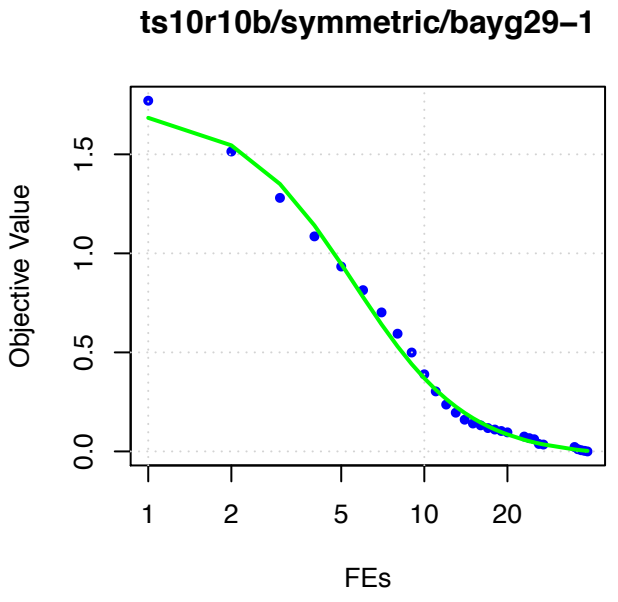
500
FEs


ts10r10b/symmetric/bayg29−1
Objective Value
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1.5
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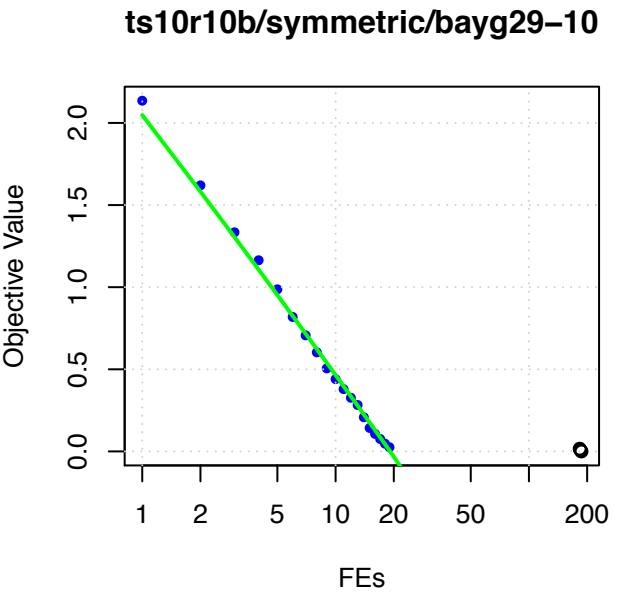
5
10
20
FEs


ts10r10b/symmetric/bayg29−10
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2
5
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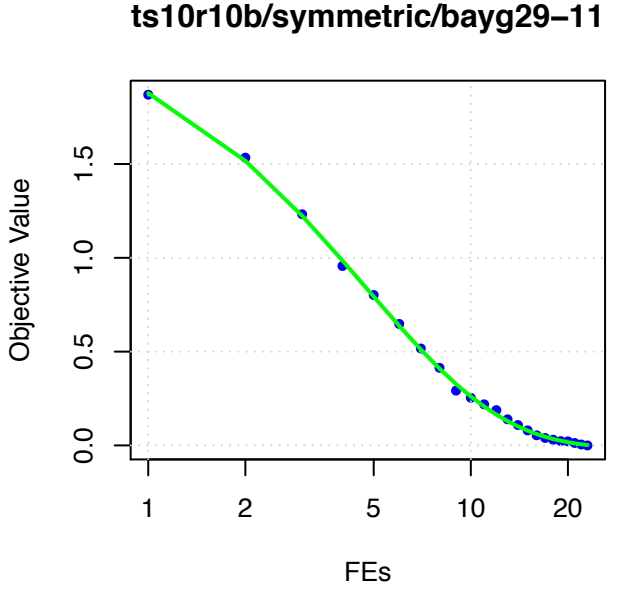
200
FEs


ts10r10b/symmetric/bayg29−11
Objective Value
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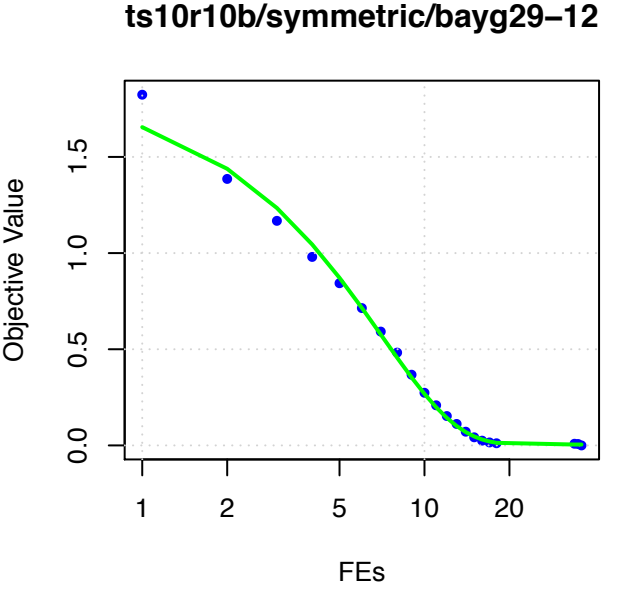
2
5
10
20
FEs


ts10r10b/symmetric/bayg29−12
Objective Value
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1.5
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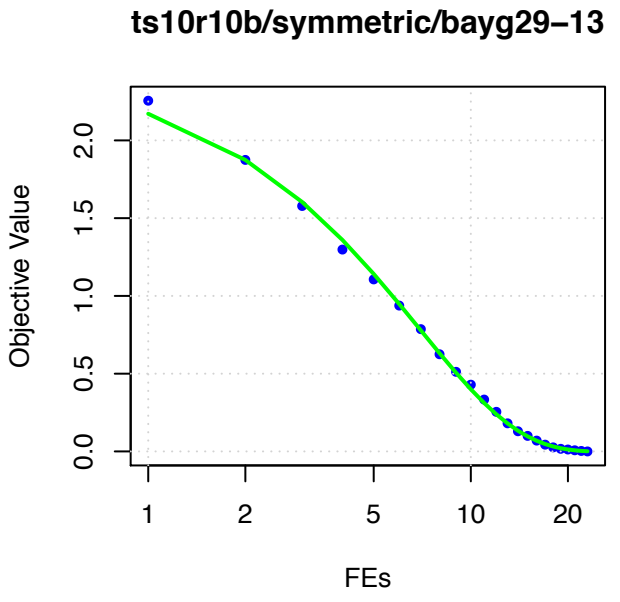
2
5
10
20
FEs


ts10r10b/symmetric/bayg29−13
Objective Value
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1.0
1.5
2.0
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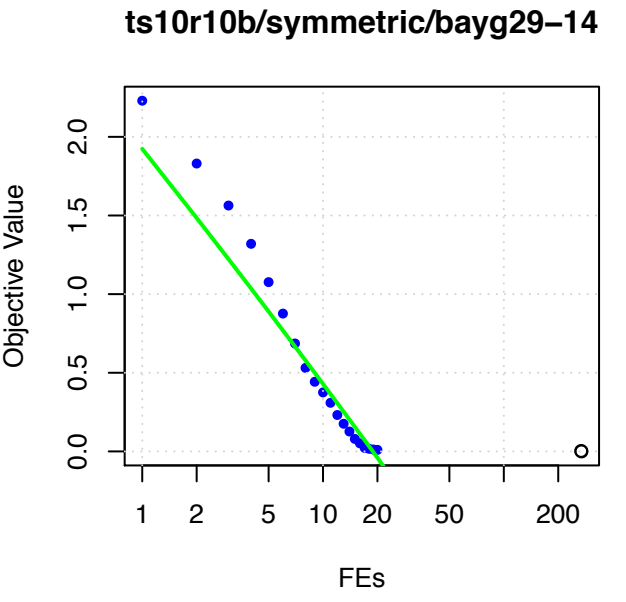
2
5
10
20
FEs


ts10r10b/symmetric/bayg29−14
Objective Value
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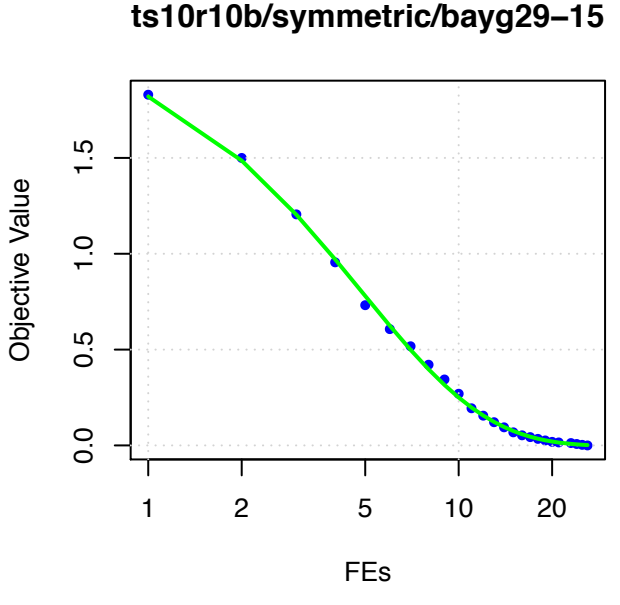
FEs


ts10r10b/symmetric/bayg29−15
Objective Value
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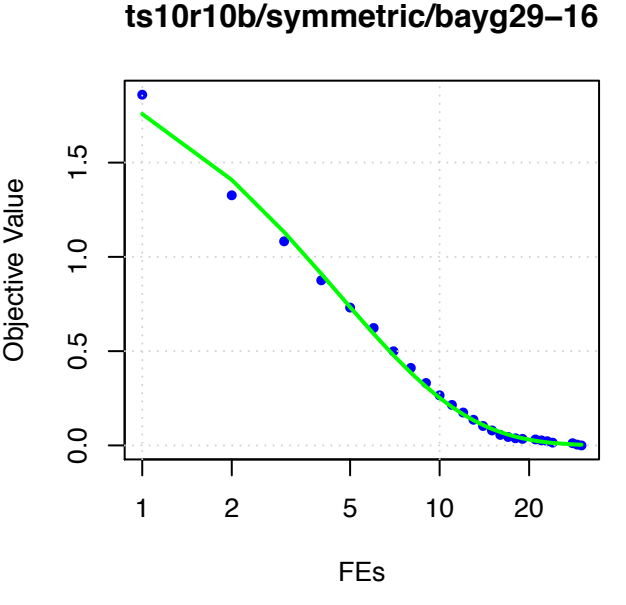
FEs


ts10r10b/symmetric/bayg29−16
Objective Value
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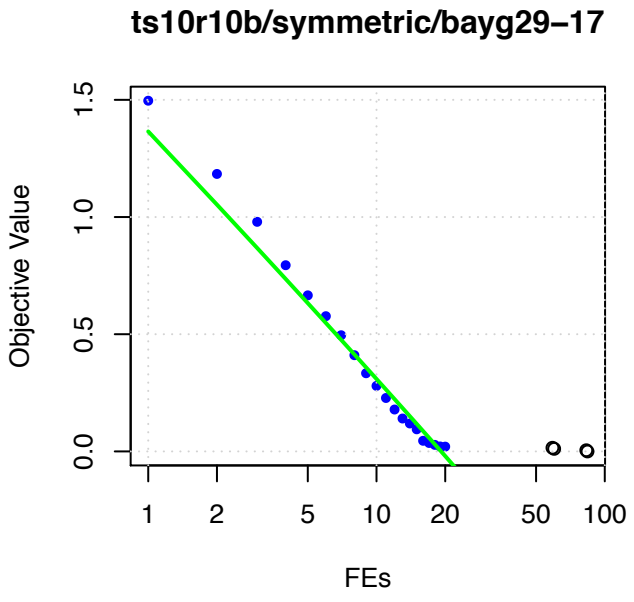
FEs


ts10r10b/symmetric/bayg29−17
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1.0
1.5
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2
5
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20
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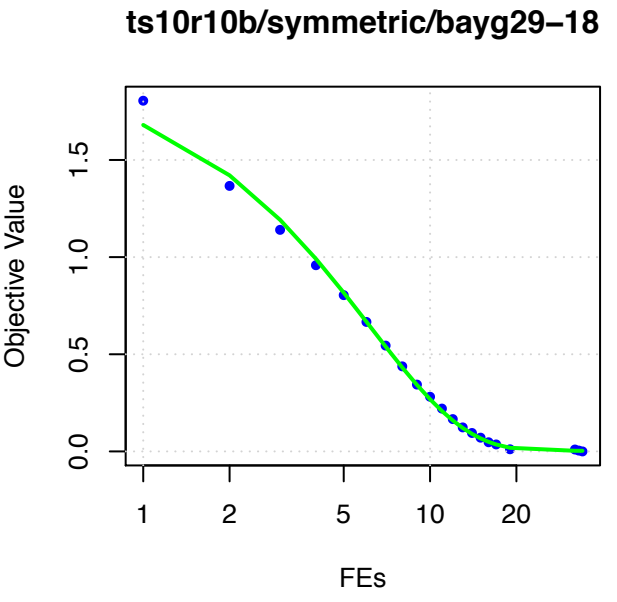
100
FEs


ts10r10b/symmetric/bayg29−18
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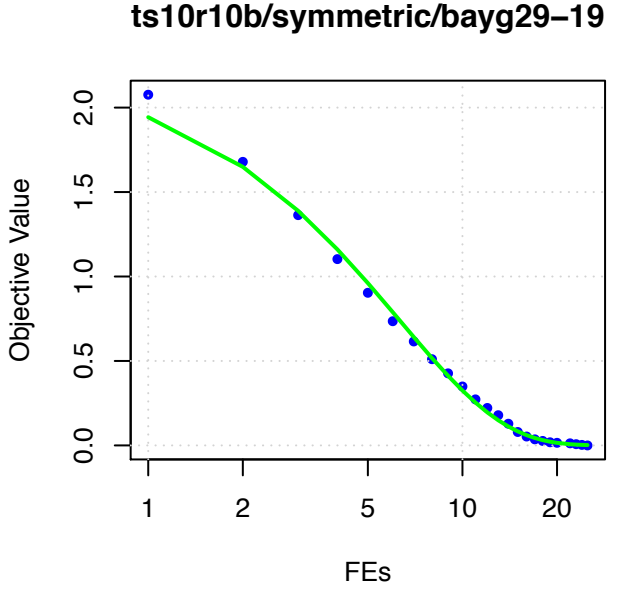
FEs


ts10r10b/symmetric/bayg29−19
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2
5
10
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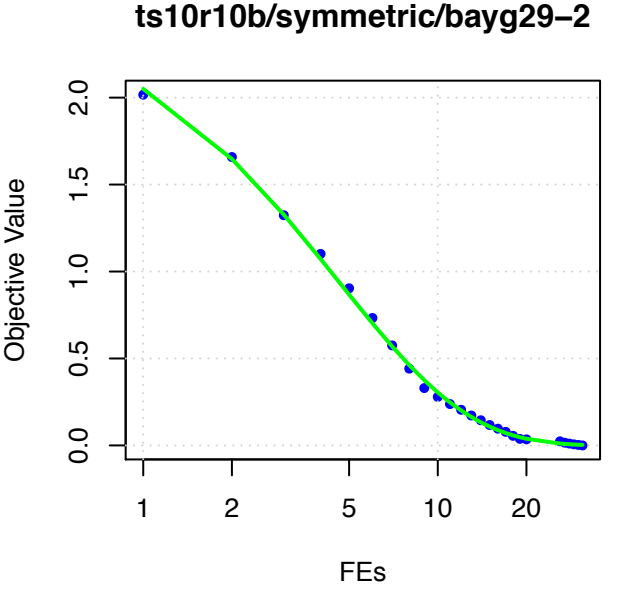
FEs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2
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10
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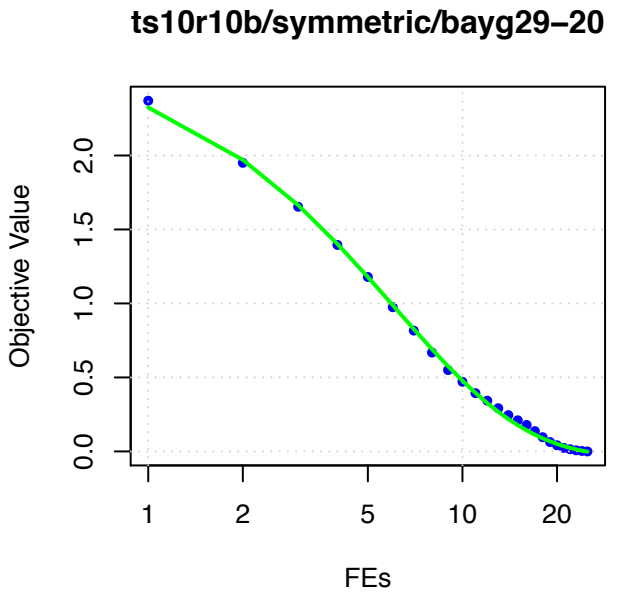
FEs


ts10r10b/symmetric/bayg29−20
Objective Value
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2
5
10
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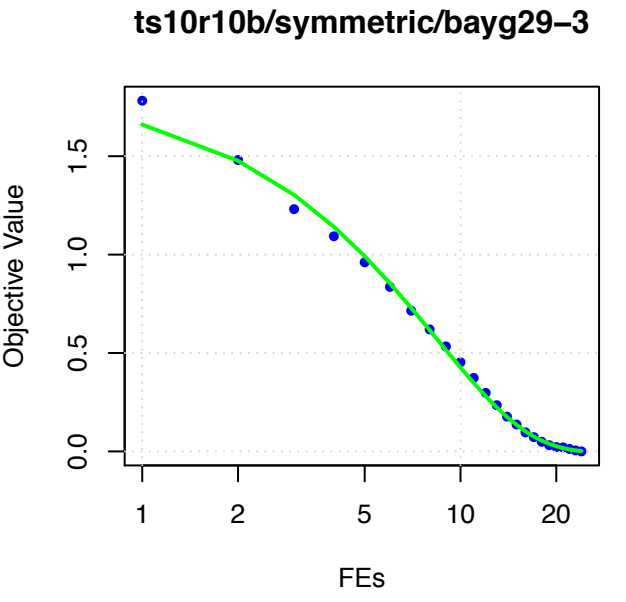
FEs


ts10r10b/symmetric/bayg29−3
Objective Value
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1.5
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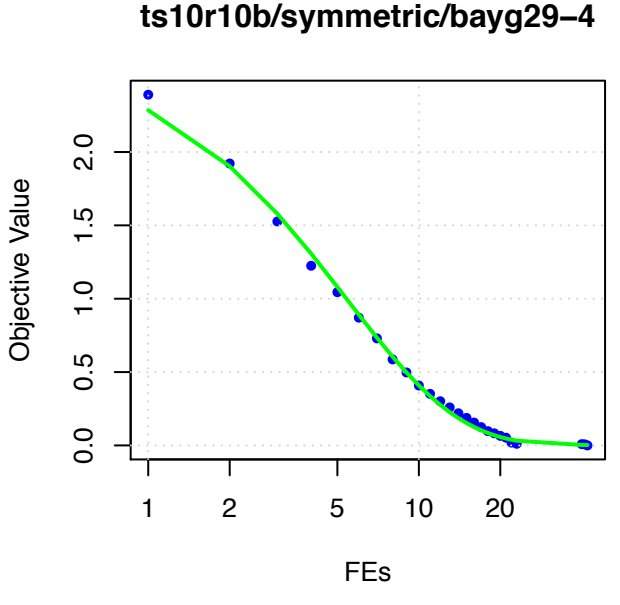
2
5
10
20
FEs


ts10r10b/symmetric/bayg29−4
Objective Value
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1.5
2.0
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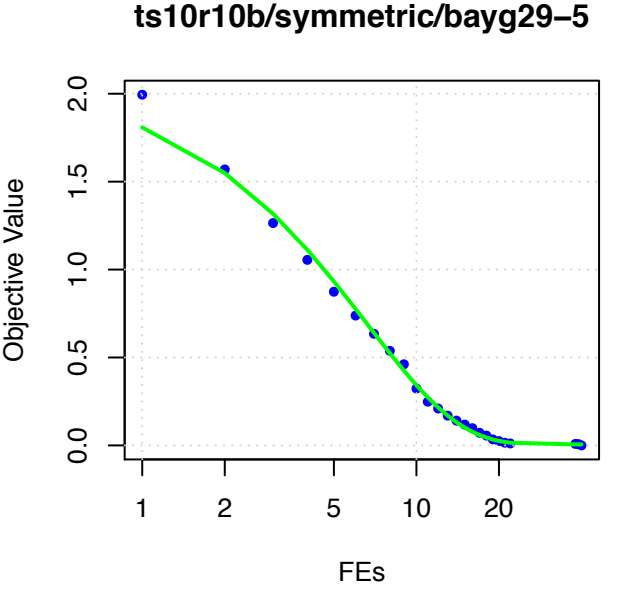
2
5
10
20
FEs


ts10r10b/symmetric/bayg29−5
Objective Value
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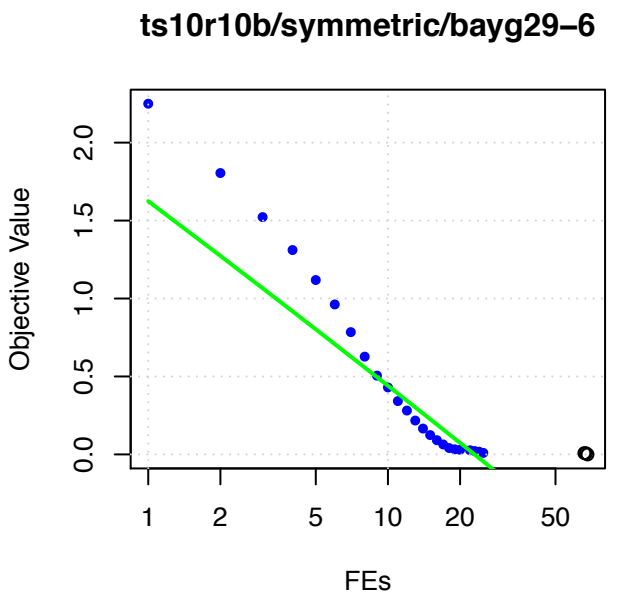
1.0
1.5
2.0
1
2
5
10
20
FEs


ts10r10b/symmetric/bayg29−6
Objective Value
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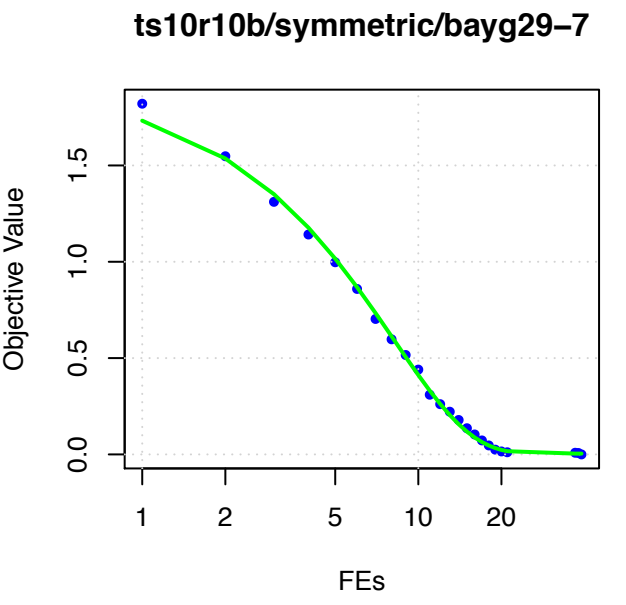
1.5
2.0
1
2
5
10
20
50
FEs


ts10r10b/symmetric/bayg29−7
Objective Value
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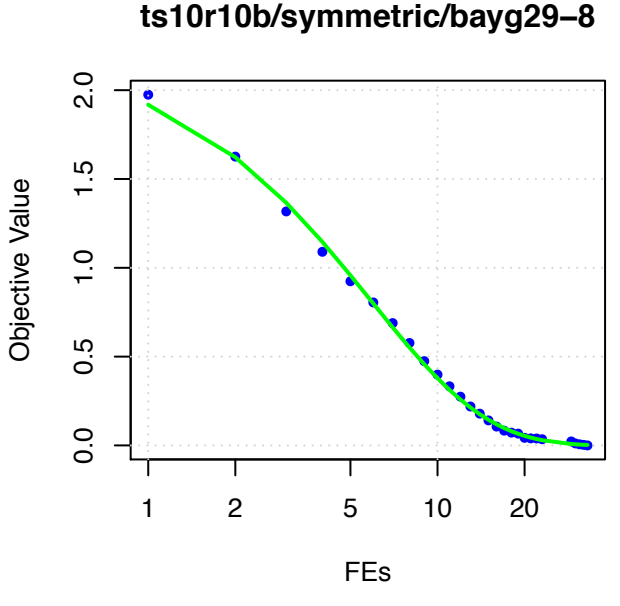
1.0
1.5
1
2
5
10
20
FEs


ts10r10b/symmetric/bayg29−8
Objective Value
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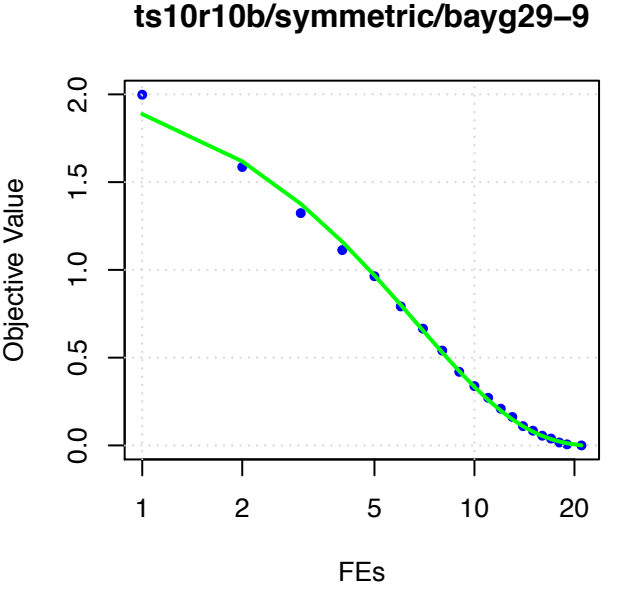
1.0
1.5
2.0
1
2
5
10
20
FEs


ts10r10b/symmetric/bayg29−9
Objective Value
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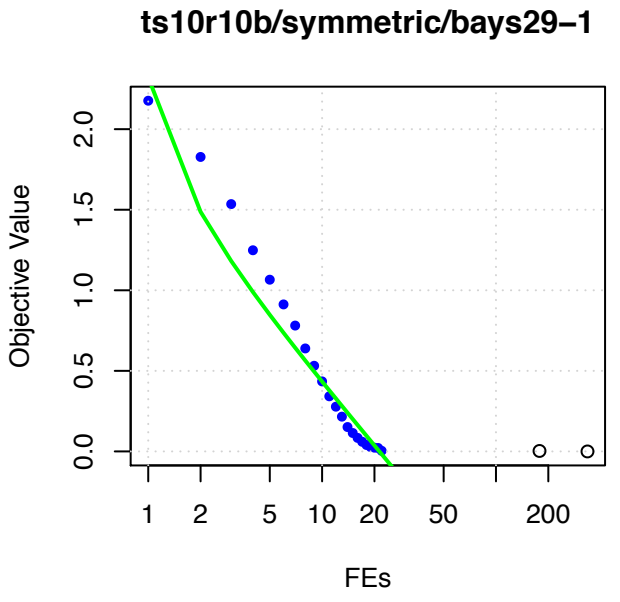
2
5
10
20
FEs


ts10r10b/symmetric/bays29−1
Objective Value
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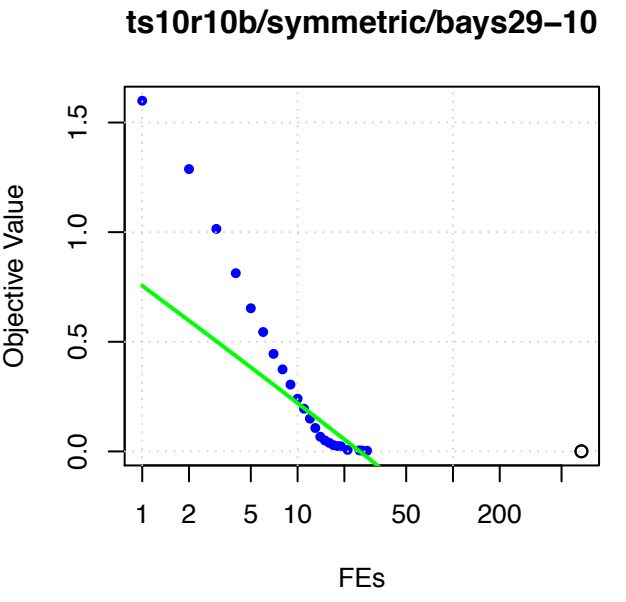
1.5
2.0
1
2
5
10
20
50
200
FEs


ts10r10b/symmetric/bays29−10
Objective Value
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1.0
1.5
1
2
5
10
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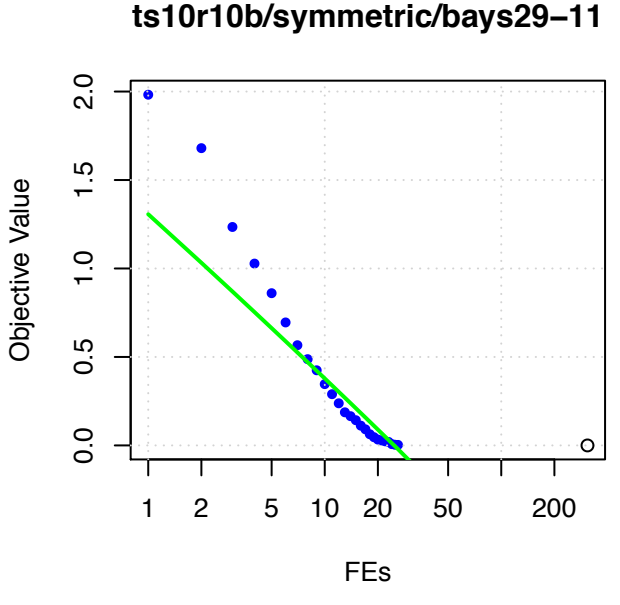
200
FEs


ts10r10b/symmetric/bays29−11
Objective Value
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1.5
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2
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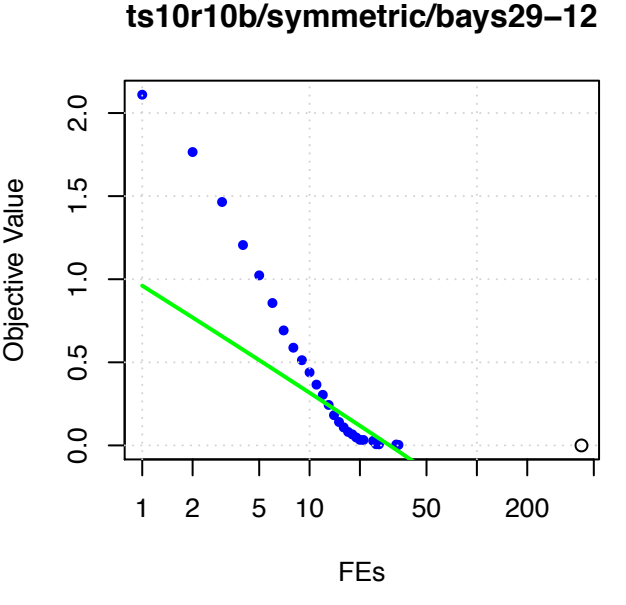
200
FEs


ts10r10b/symmetric/bays29−12
Objective Value
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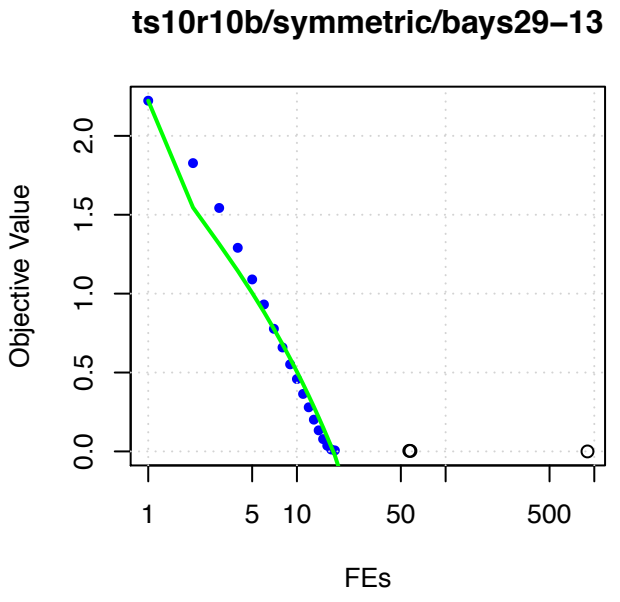
200
FEs


ts10r10b/symmetric/bays29−13
Objective Value
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1.5
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5
10
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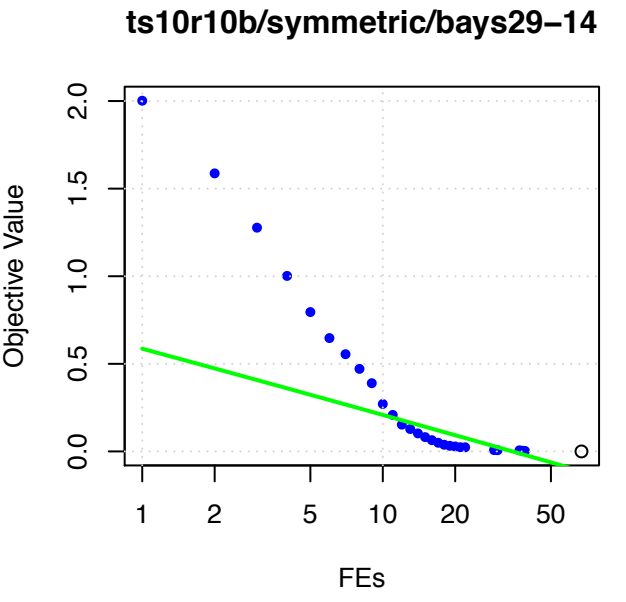
500
FEs


ts10r10b/symmetric/bays29−14
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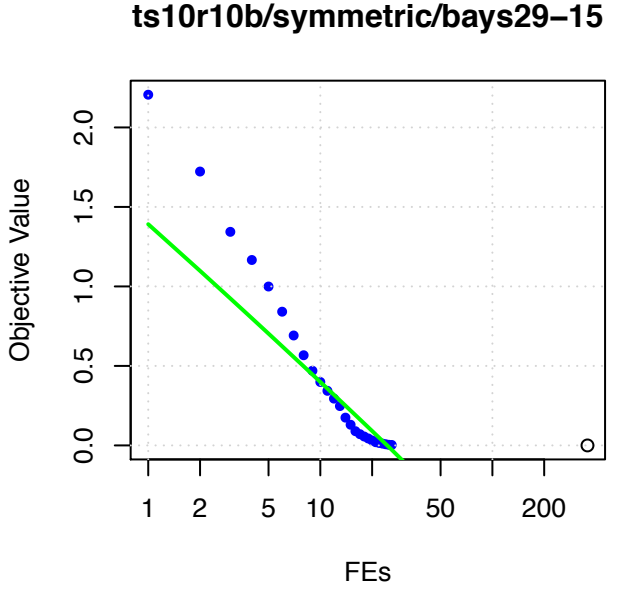
FEs


ts10r10b/symmetric/bays29−15
Objective Value
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1.5
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5
10
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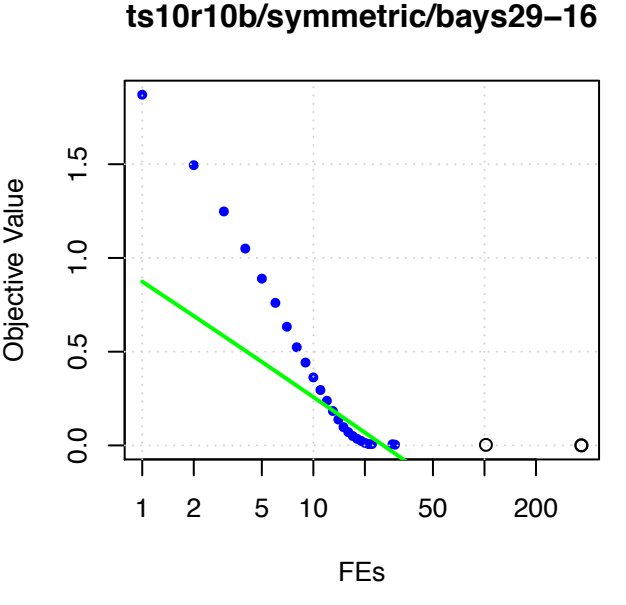
200
FEs


ts10r10b/symmetric/bays29−16
Objective Value
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1.5
1
2
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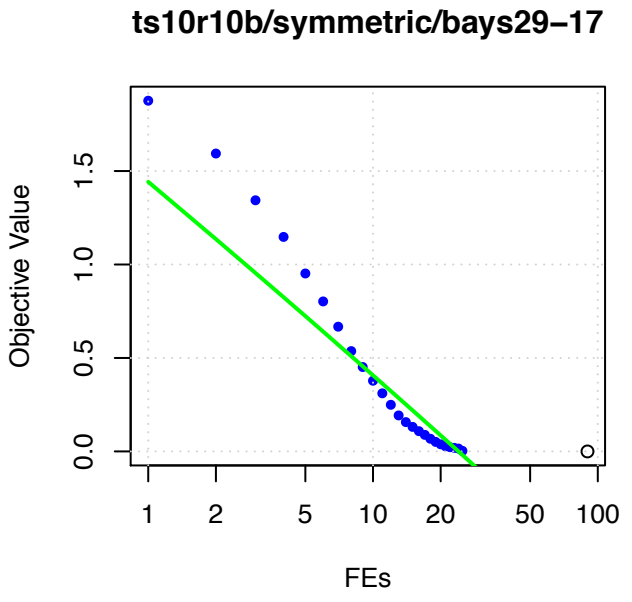
10
50
200
FEs


ts10r10b/symmetric/bays29−17
Objective Value
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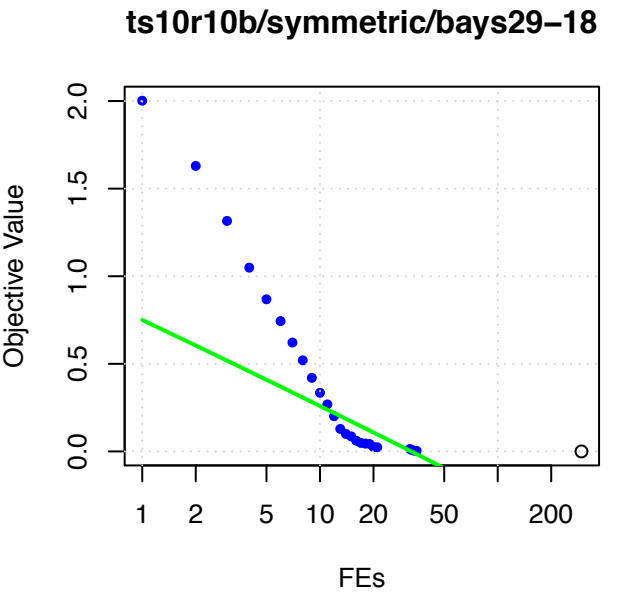
0.5
1.0
1.5
1
2
5
10
20
50
100
FEs


ts10r10b/symmetric/bays29−18
Objective Value
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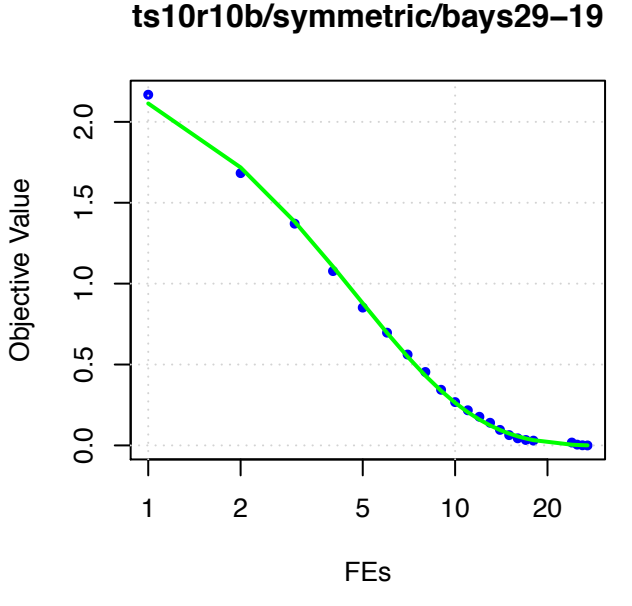
0.5
1.0
1.5
2.0
1
2
5
10
20
50
200
FEs


ts10r10b/symmetric/bays29−19
Objective Value
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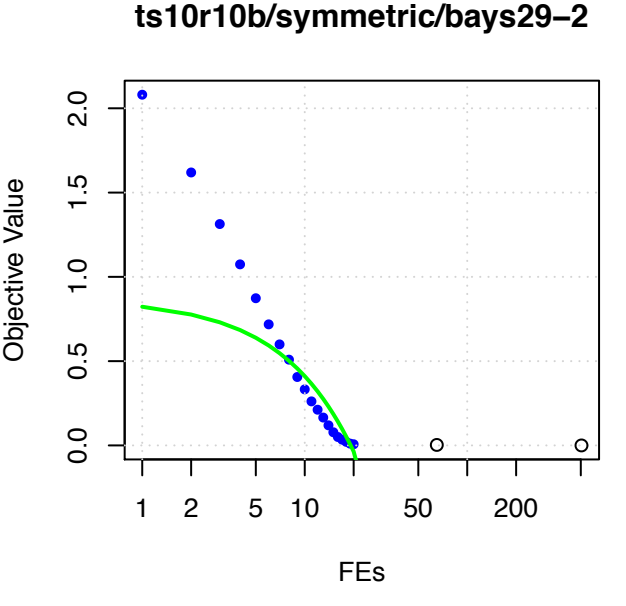
0.5
1.0
1.5
2.0
1
2
5
10
20
FEs


ts10r10b/symmetric/bays29−2
Objective Value
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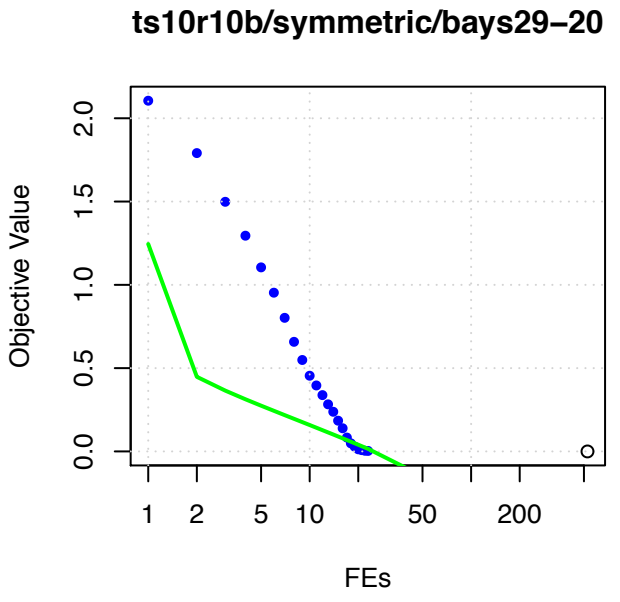
1.0
1.5
2.0
1
2
5
10
50
200
FEs


ts10r10b/symmetric/bays29−20
Objective Value
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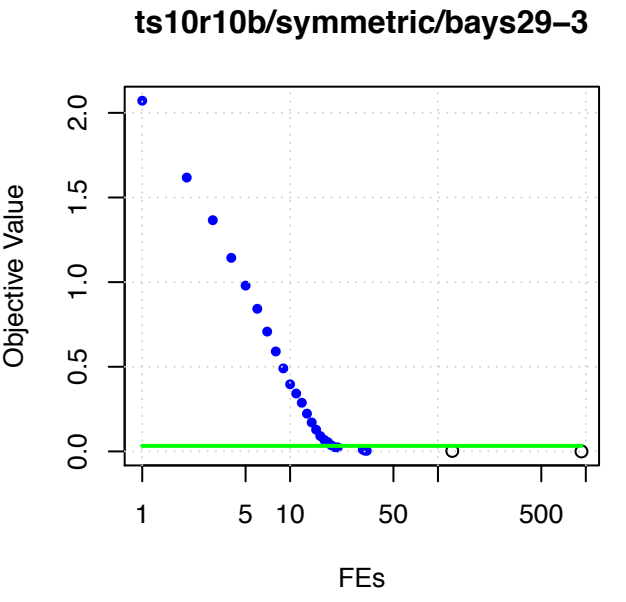
0.5
1.0
1.5
2.0
1
2
5
10
50
200
FEs


ts10r10b/symmetric/bays29−3
Objective Value
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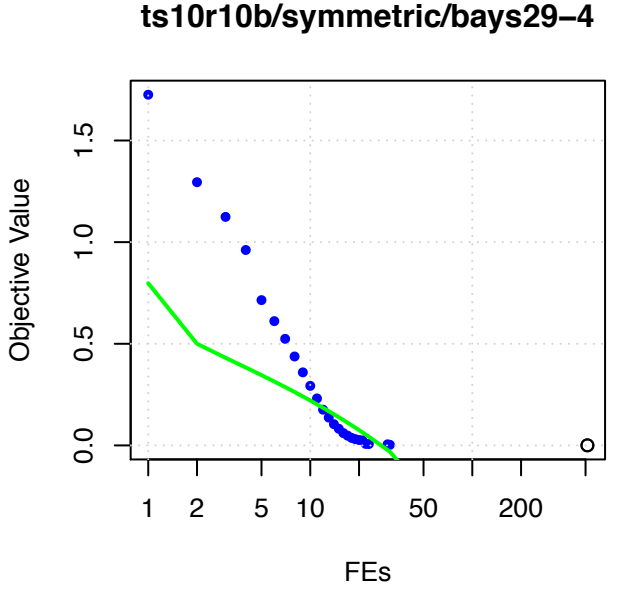
1.0
1.5
2.0
1
5
10
50
500
FEs


ts10r10b/symmetric/bays29−4
Objective Value
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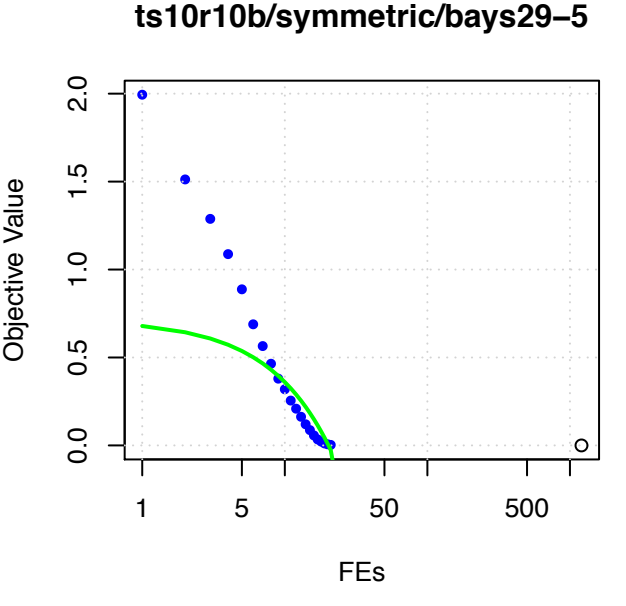
0.5
1.0
1.5
1
2
5
10
50
200
FEs


ts10r10b/symmetric/bays29−5
Objective Value
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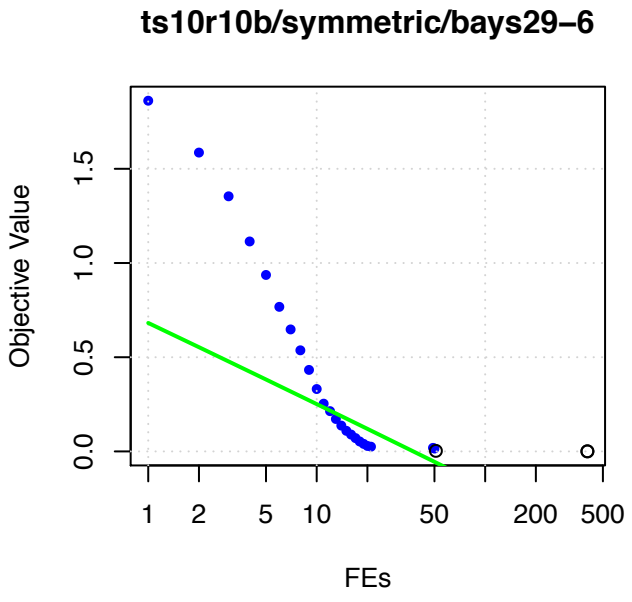
1.0
1.5
2.0
1
5
50
500
FEs


ts10r10b/symmetric/bays29−6
Objective Value
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1.5
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2
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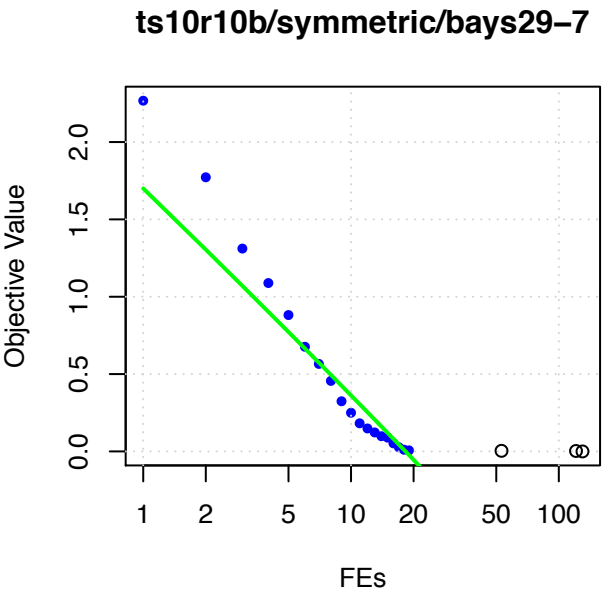
10
50
200
500
FEs


ts10r10b/symmetric/bays29−7
Objective Value
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1.0
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2.0
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2
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20
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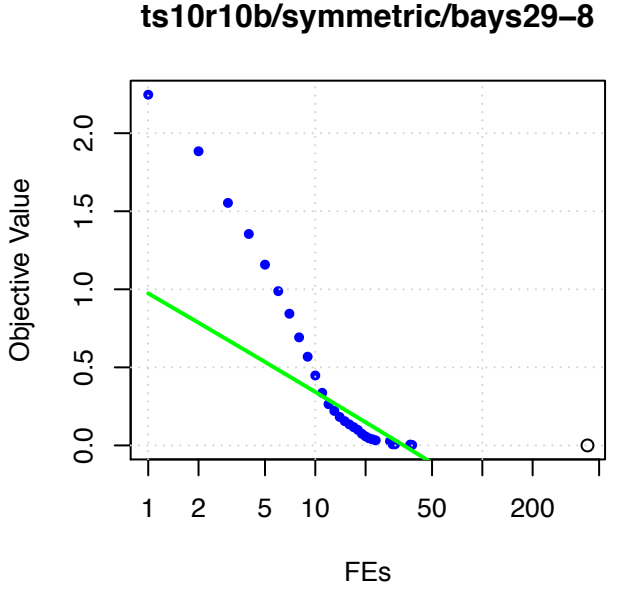
100
FEs


ts10r10b/symmetric/bays29−8
Objective Value
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1.5
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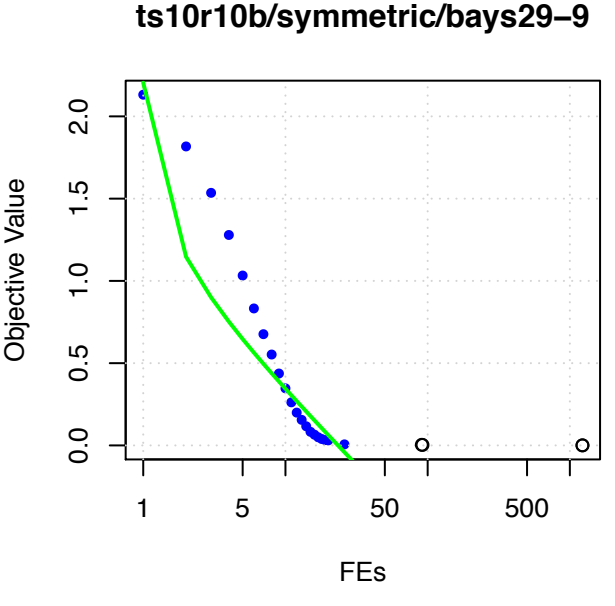
2
5
10
50
200
FEs


ts10r10b/symmetric/bays29−9
Objective Value
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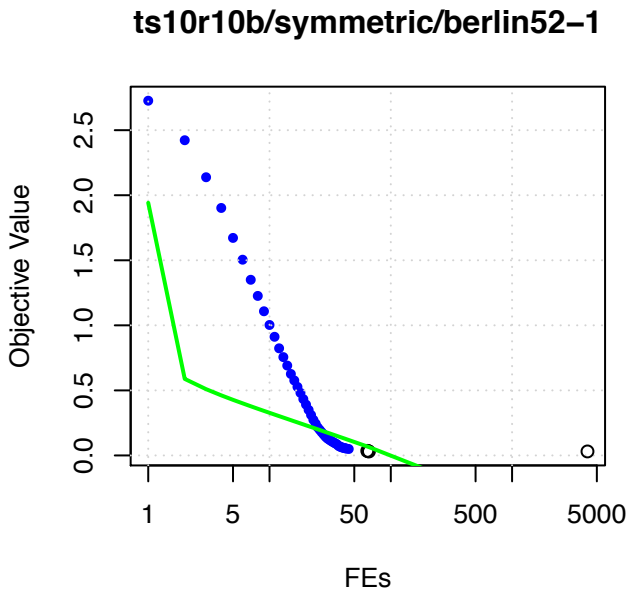
1
5
50
500
FEs


ts10r10b/symmetric/berlin52−1
Objective Value
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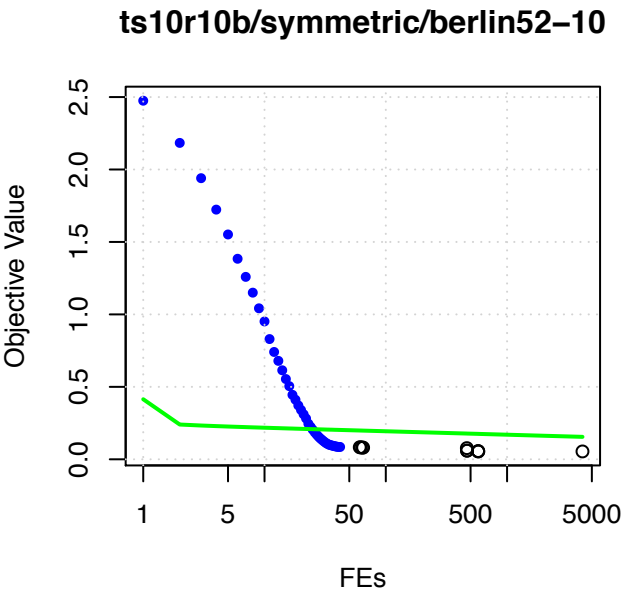
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts10r10b/symmetric/berlin52−10
Objective Value
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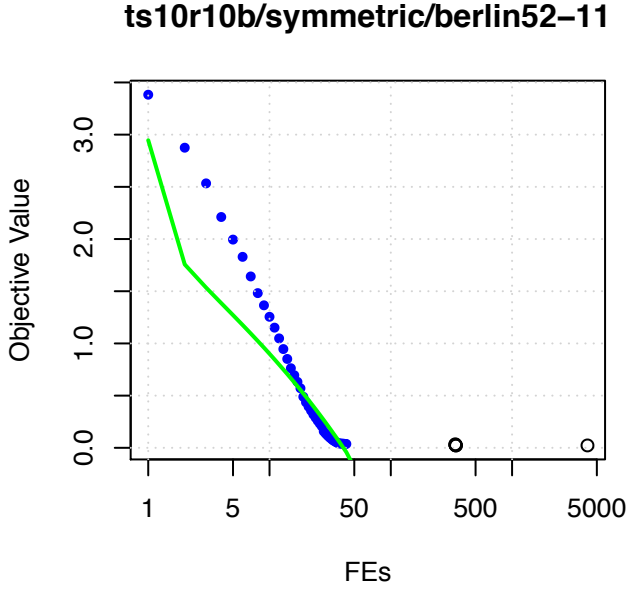
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts10r10b/symmetric/berlin52−11
Objective Value
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3.0
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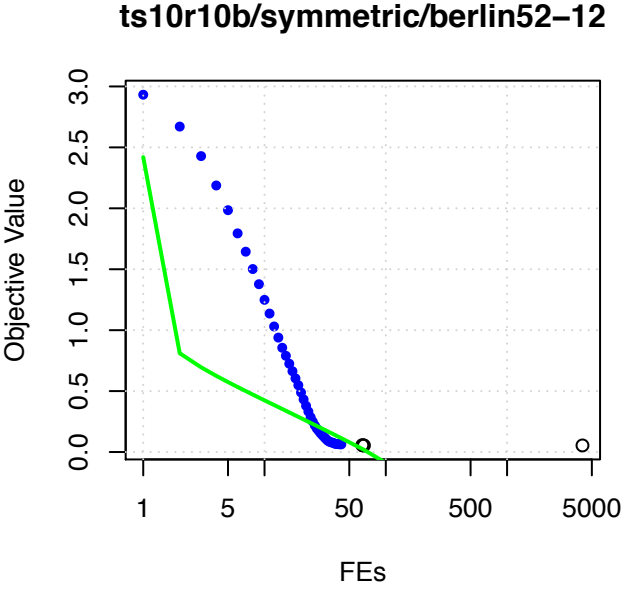
50
500
5000
FEs


ts10r10b/symmetric/berlin52−12
Objective Value
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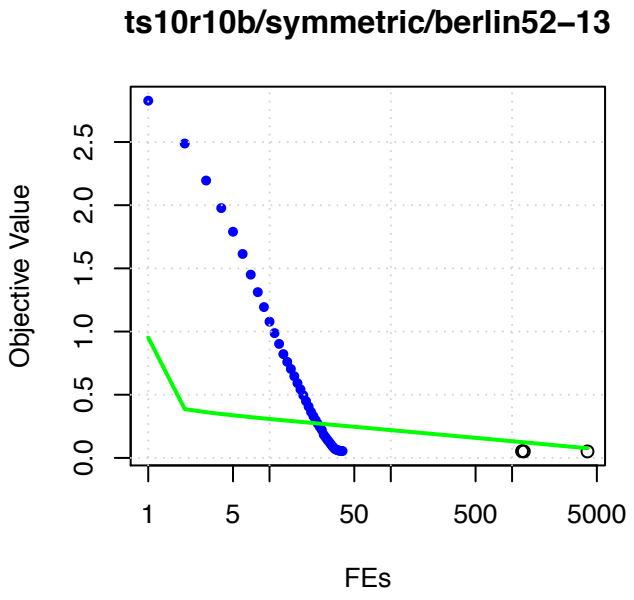
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts10r10b/symmetric/berlin52−13
Objective Value
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1.5
2.0
2.5
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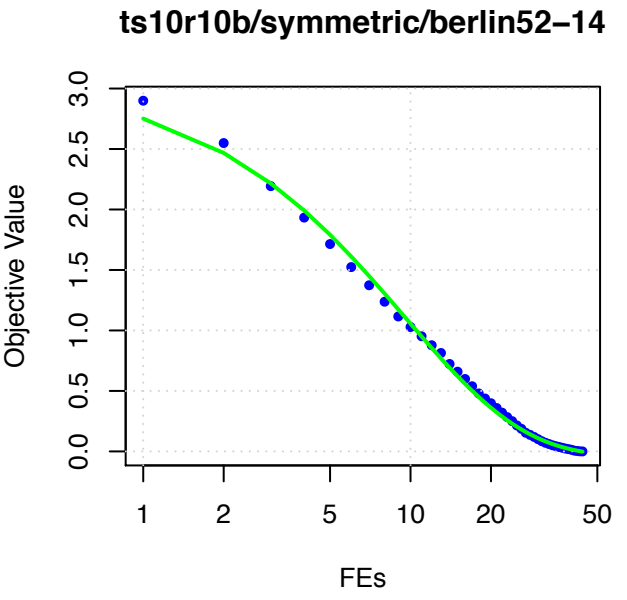
5000
FEs


ts10r10b/symmetric/berlin52−14
Objective Value
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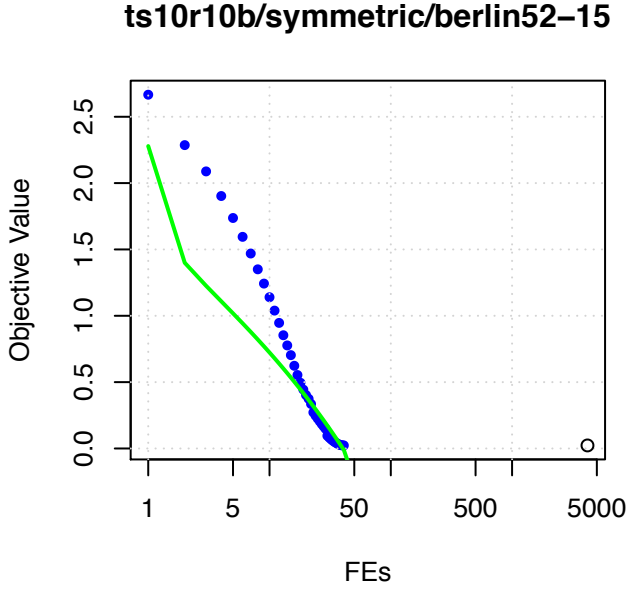
FEs


ts10r10b/symmetric/berlin52−15
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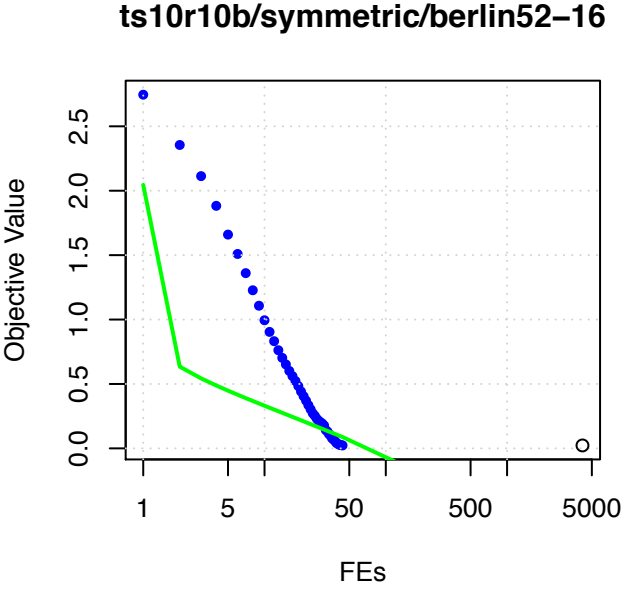
FEs


ts10r10b/symmetric/berlin52−16
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2.5
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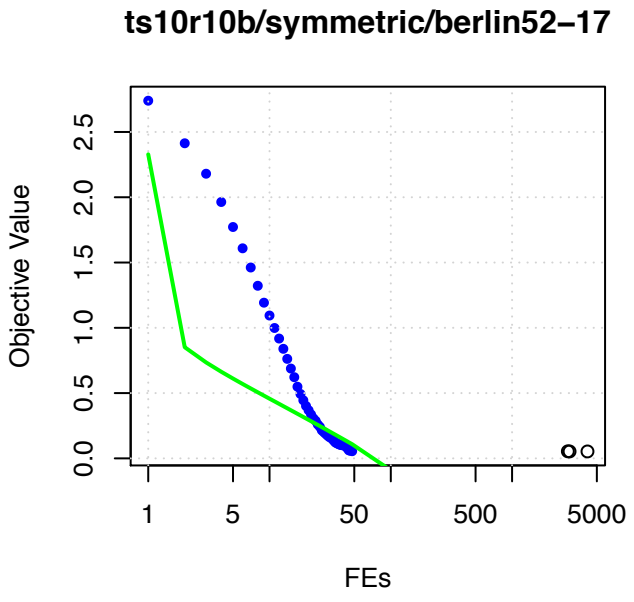
5000
FEs


ts10r10b/symmetric/berlin52−17
Objective Value
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1
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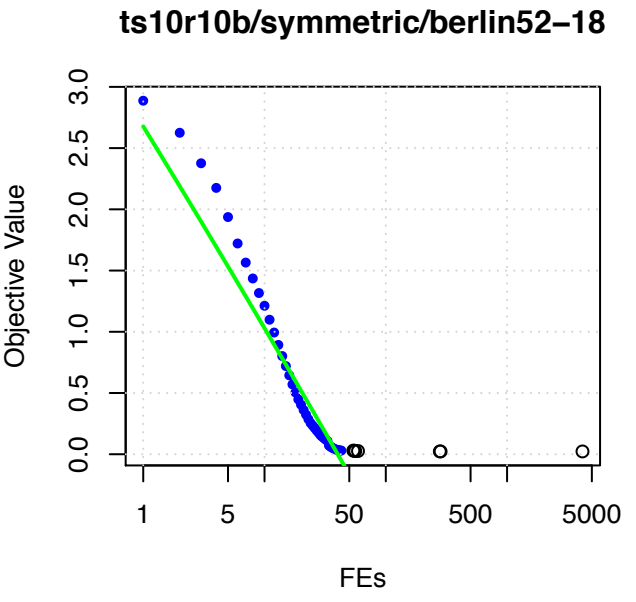
500
5000
FEs


ts10r10b/symmetric/berlin52−18
Objective Value
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2.5
3.0
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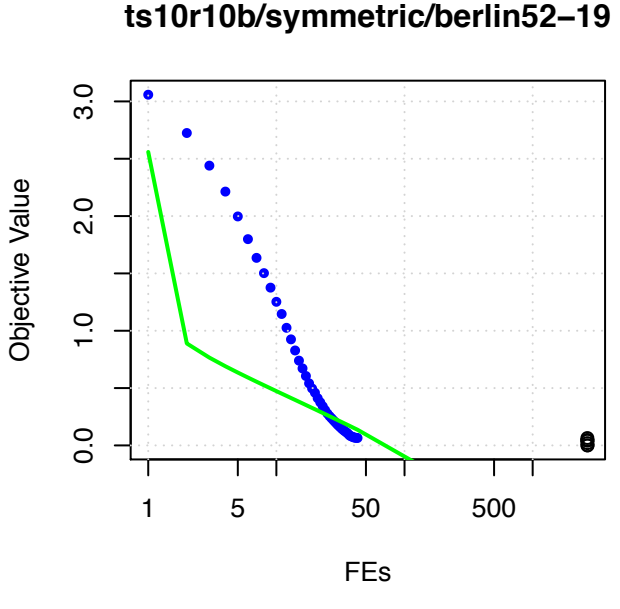
5000
FEs


ts10r10b/symmetric/berlin52−19
Objective Value
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2.0
3.0
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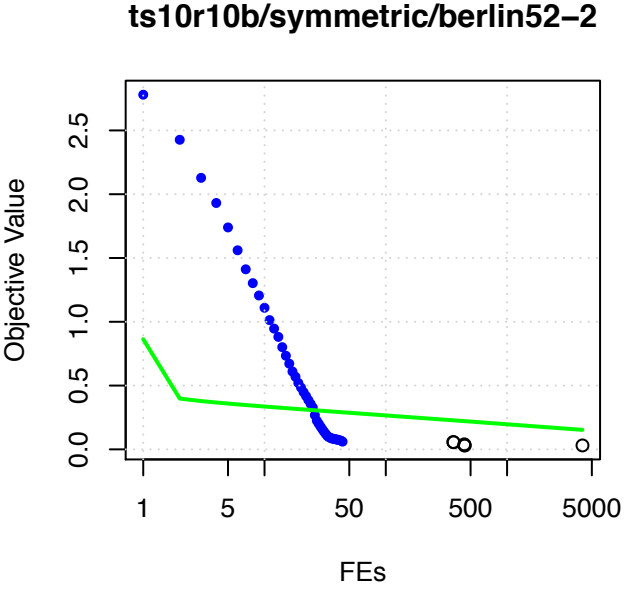
50
500
FEs


ts10r10b/symmetric/berlin52−2
Objective Value
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2.0
2.5
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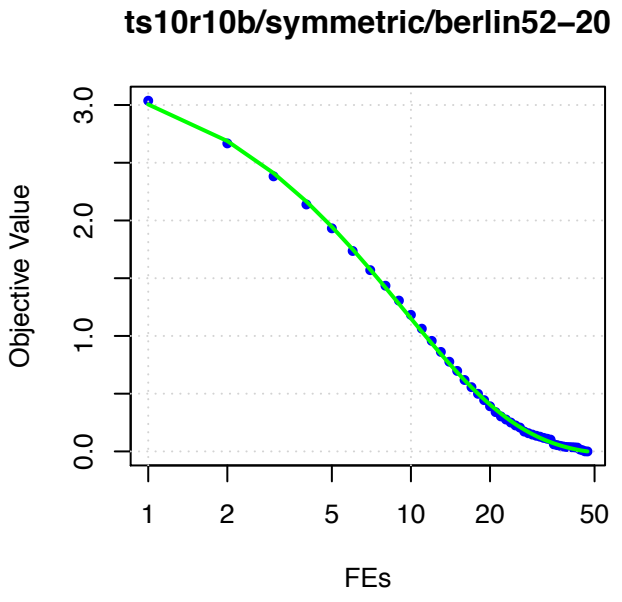
500
5000
FEs


ts10r10b/symmetric/berlin52−20
Objective Value
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2.0
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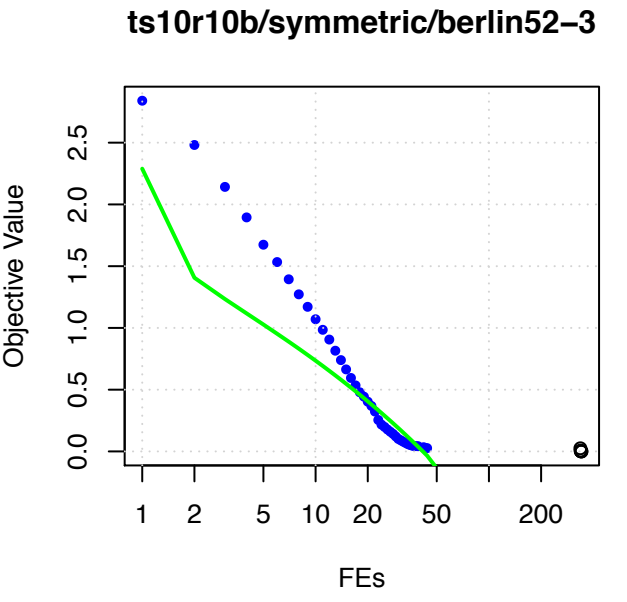
1
2
5
10
20
50
FEs


ts10r10b/symmetric/berlin52−3
Objective Value
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1.0
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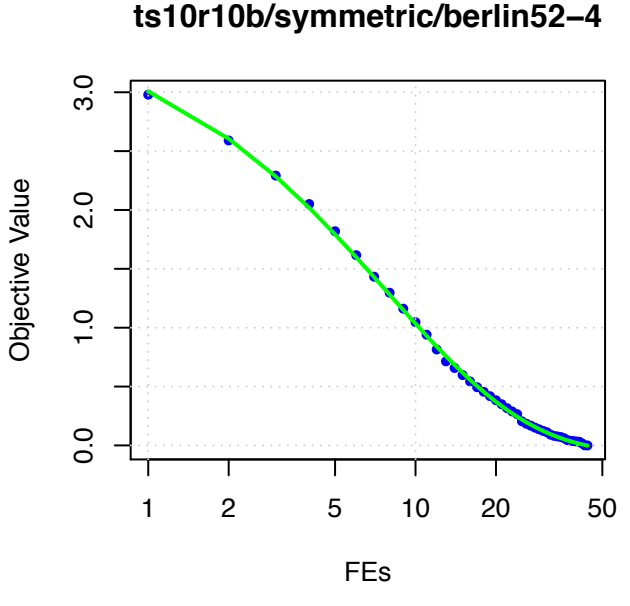
2.0
2.5
1
2
5
10
20
50
200
FEs


ts10r10b/symmetric/berlin52−4
Objective Value
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2.0
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2
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10
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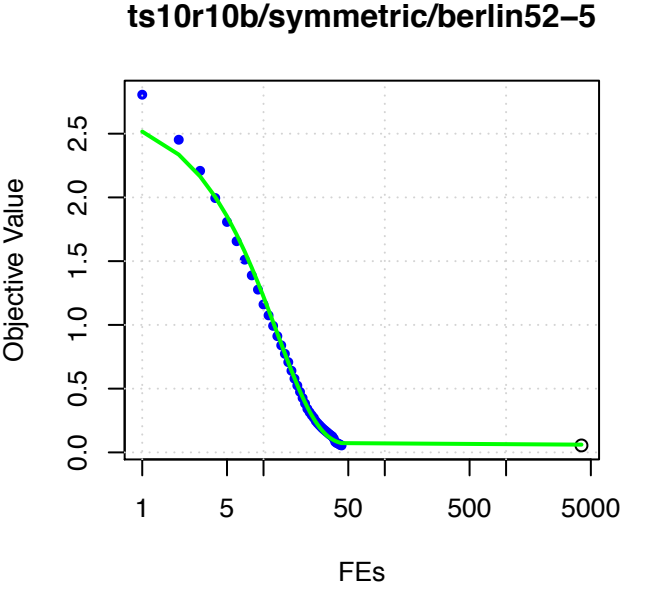
FEs


ts10r10b/symmetric/berlin52−5
Objective Value
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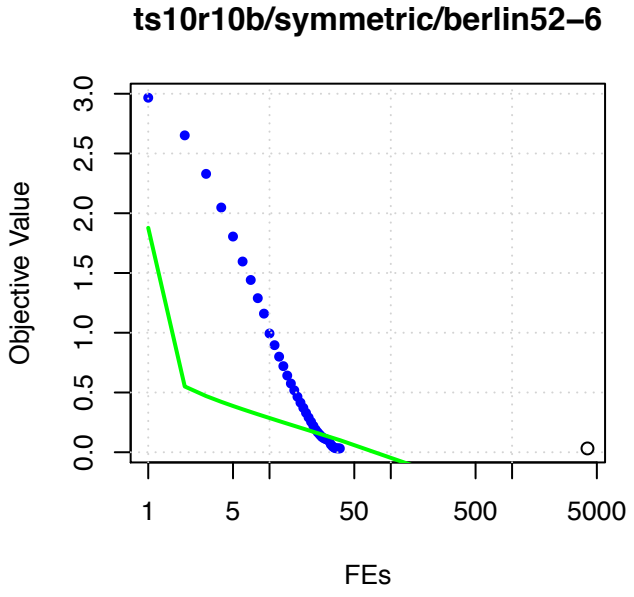
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts10r10b/symmetric/berlin52−6
Objective Value
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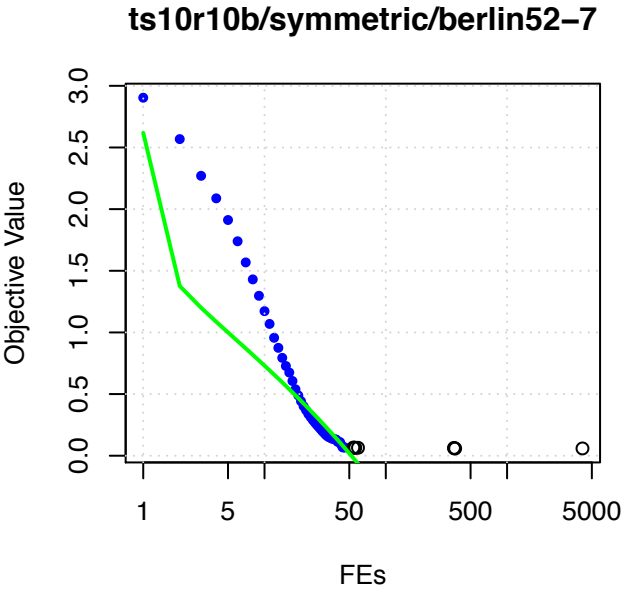
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts10r10b/symmetric/berlin52−7
Objective Value
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1.0
1.5
2.0
2.5
3.0
1
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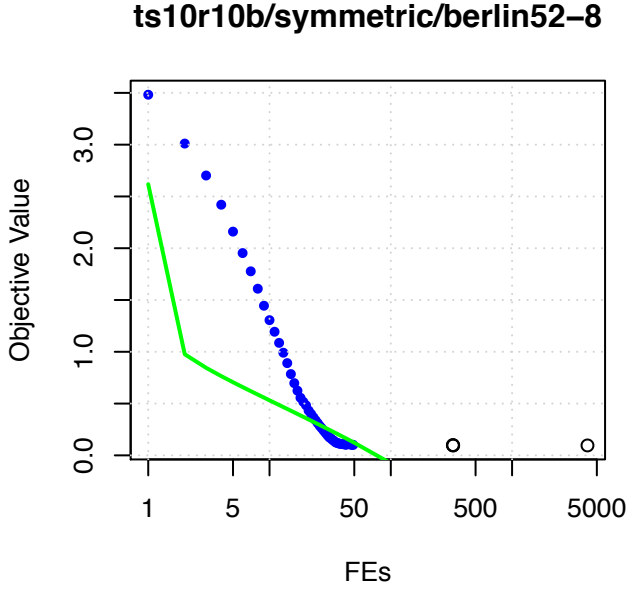
50
500
5000
FEs


ts10r10b/symmetric/berlin52−8
Objective Value
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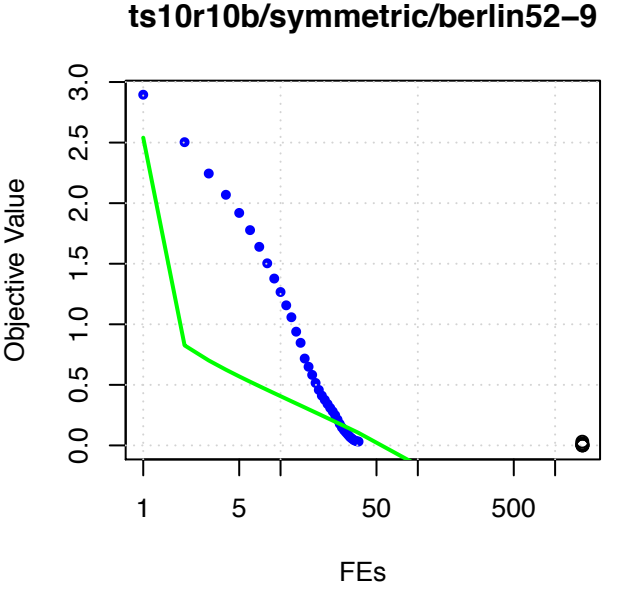
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts10r10b/symmetric/berlin52−9
Objective Value
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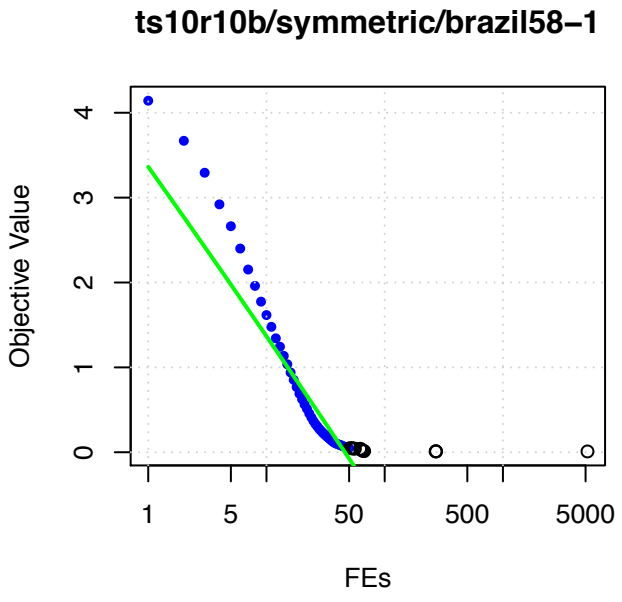
1.5
2.0
2.5
3.0
1
5
50
500
FEs


ts10r10b/symmetric/brazil58−1
Objective Value
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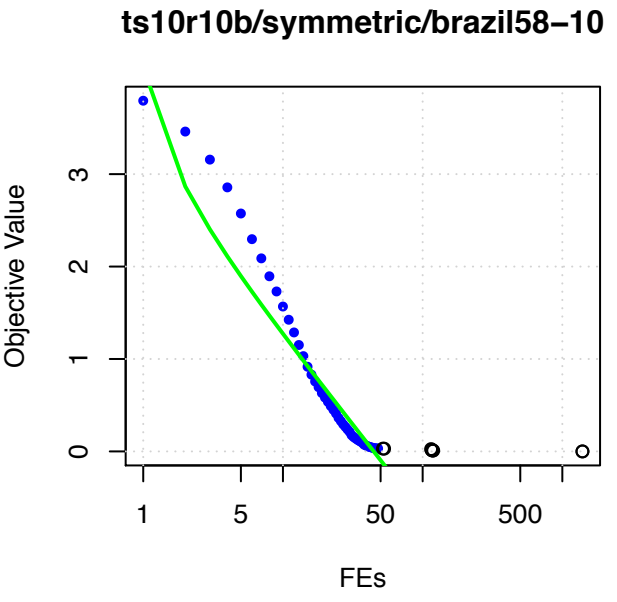
1
2
3
4
1
5
50
500
5000
FEs


ts10r10b/symmetric/brazil58−10
Objective Value
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1
2
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1
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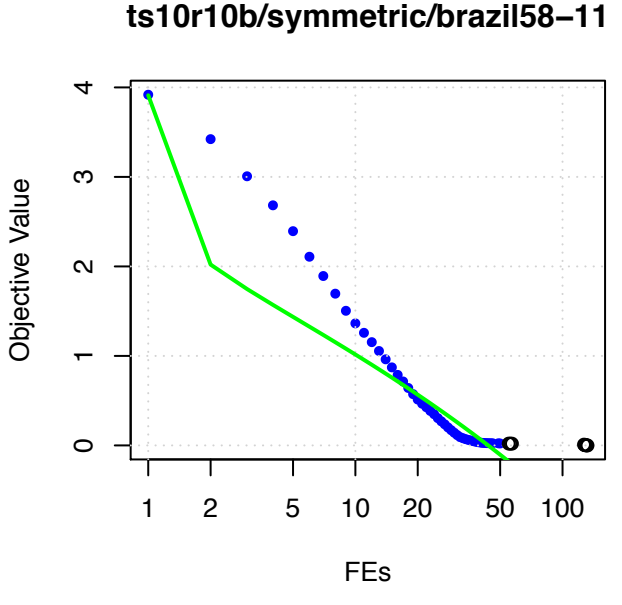
500
FEs


ts10r10b/symmetric/brazil58−11
Objective Value
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2
3
4
1
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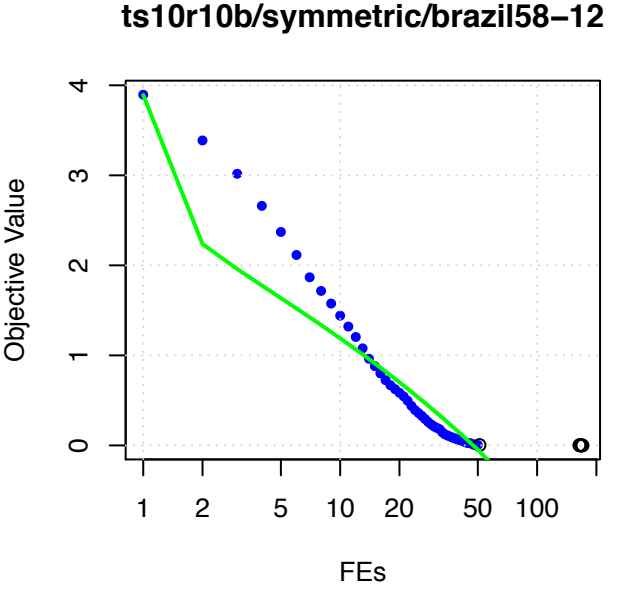
10
20
50
100
FEs


ts10r10b/symmetric/brazil58−12
Objective Value
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1
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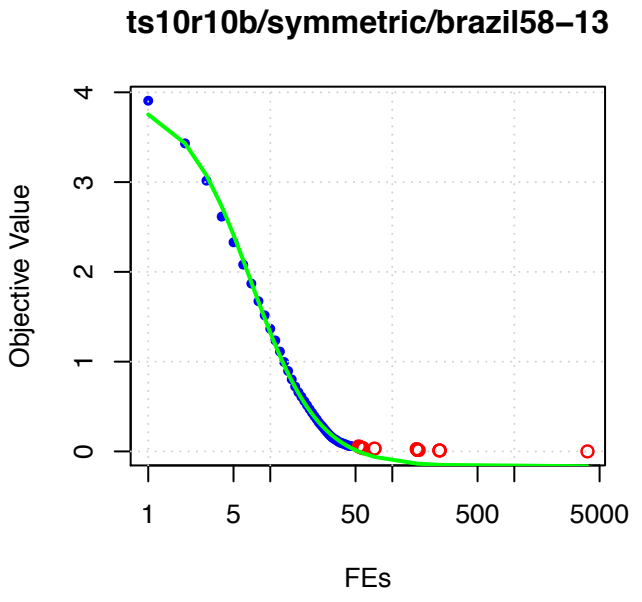
10
20
50
100
FEs


ts10r10b/symmetric/brazil58−13
Objective Value
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1
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3
4
1
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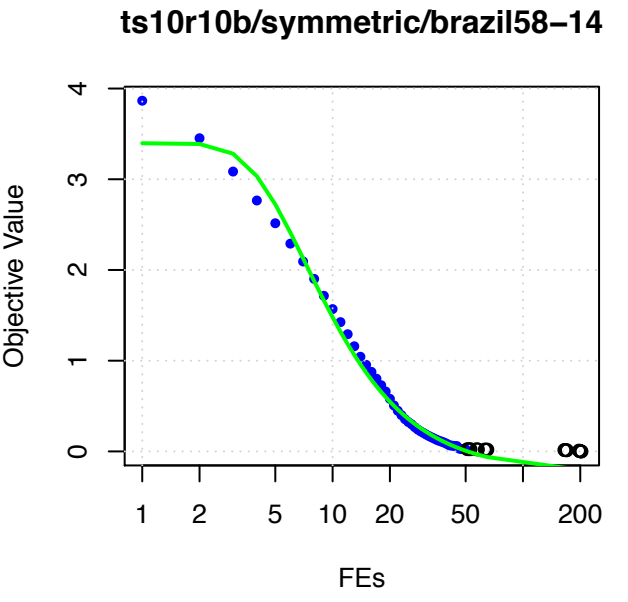
50
500
5000
FEs


ts10r10b/symmetric/brazil58−14
Objective Value
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1
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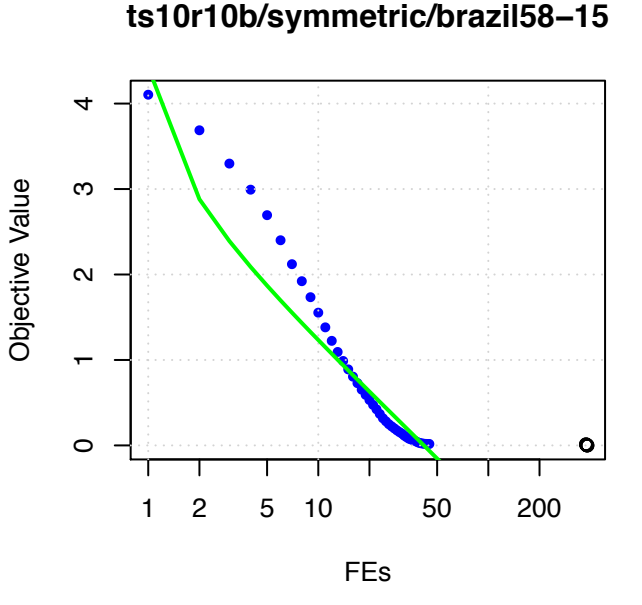
10
20
50
200
FEs


ts10r10b/symmetric/brazil58−15
Objective Value
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2
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4
1
2
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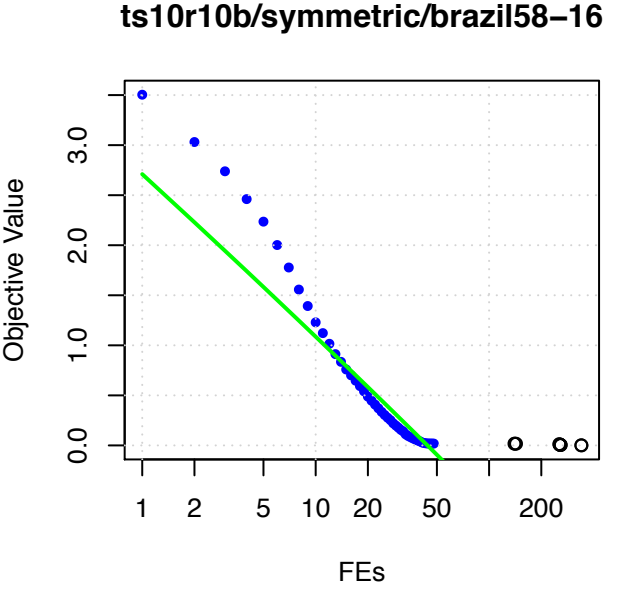
10
50
200
FEs


ts10r10b/symmetric/brazil58−16
Objective Value
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1.0
2.0
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2
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10
20
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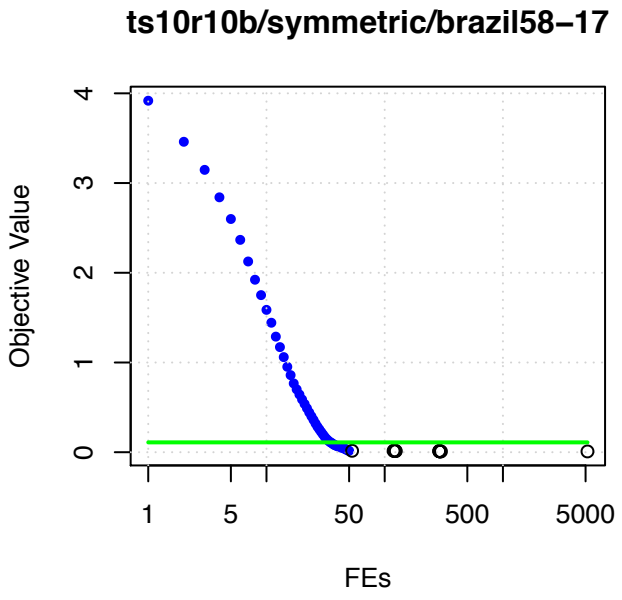
200
FEs


ts10r10b/symmetric/brazil58−17
Objective Value
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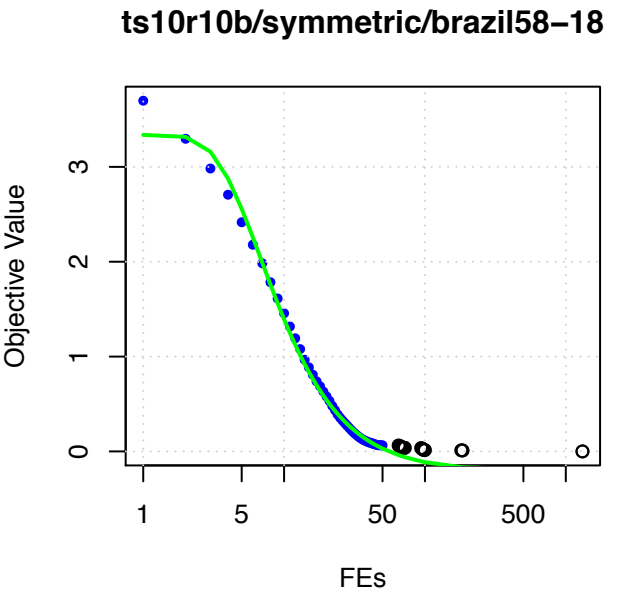
3
4
1
5
50
500
5000
FEs


ts10r10b/symmetric/brazil58−18
Objective Value
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1
5
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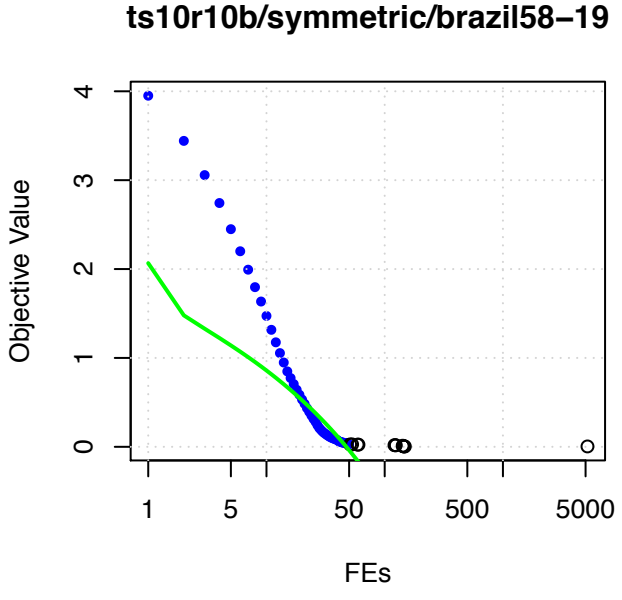
FEs


ts10r10b/symmetric/brazil58−19
Objective Value
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1
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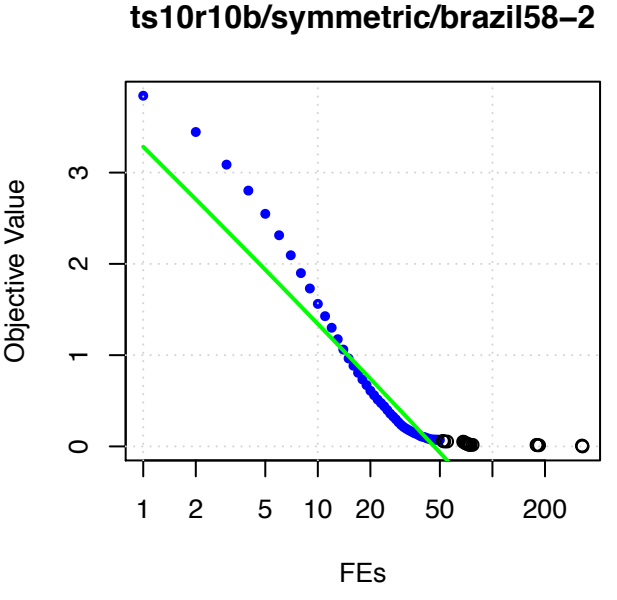
3
4
1
5
50
500
5000
FEs


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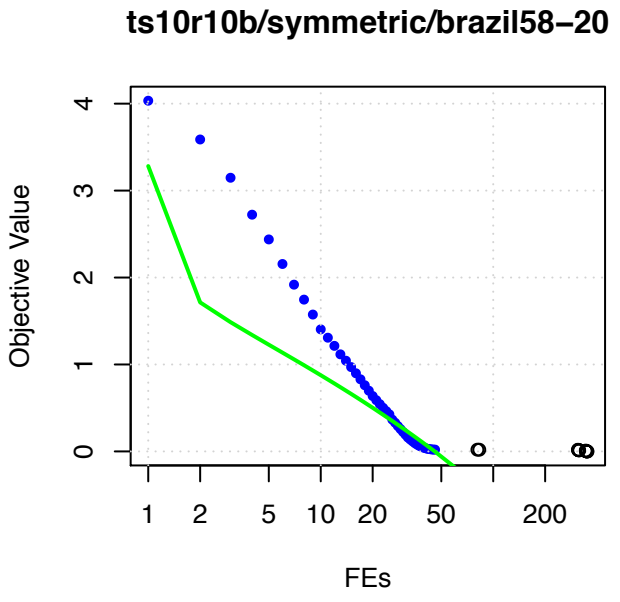
2
3
1
2
5
10
20
50
200
FEs


ts10r10b/symmetric/brazil58−20
Objective Value
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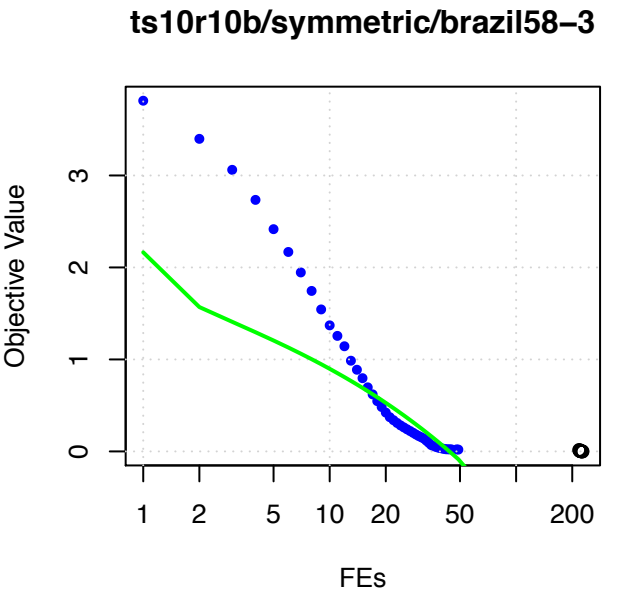
1
2
3
4
1
2
5
10
20
50
200
FEs


ts10r10b/symmetric/brazil58−3
Objective Value
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1
2
3
1
2
5
10
20
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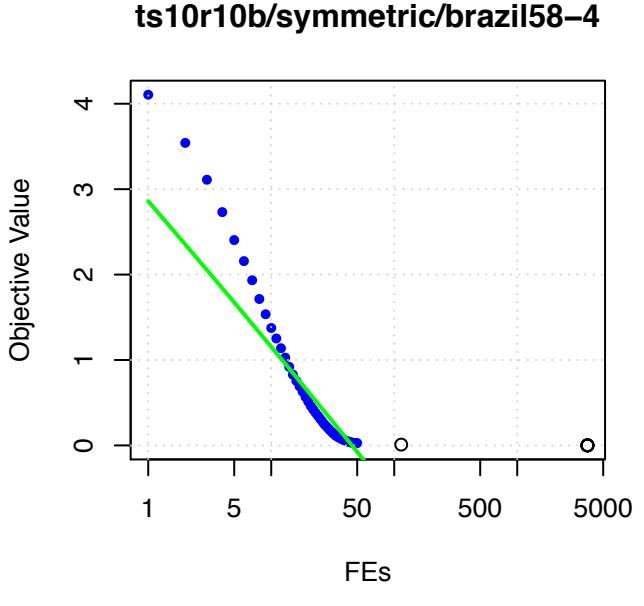
200
FEs


ts10r10b/symmetric/brazil58−4
Objective Value
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3
4
1
5
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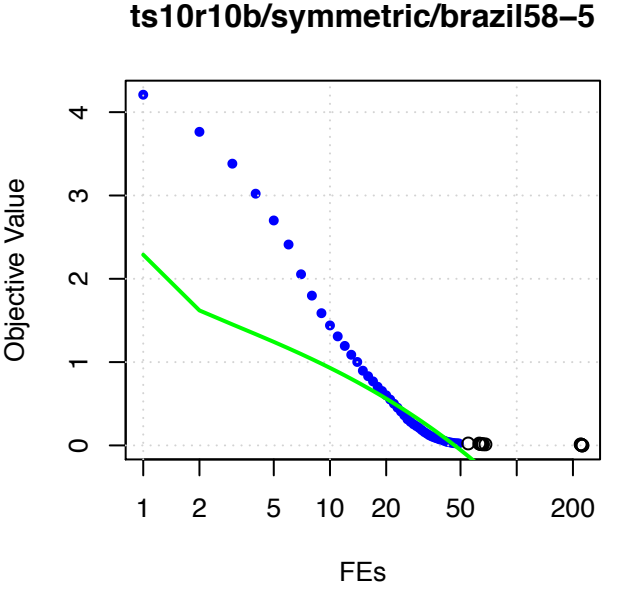
500
5000
FEs


ts10r10b/symmetric/brazil58−5
Objective Value
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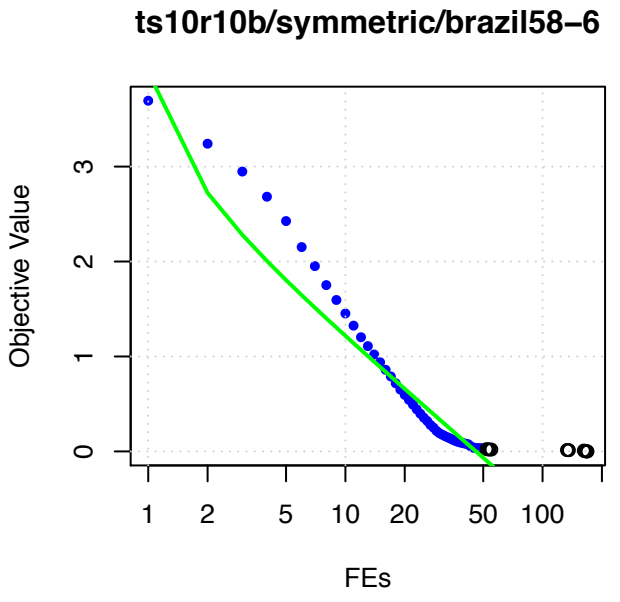
10
20
50
200
FEs


ts10r10b/symmetric/brazil58−6
Objective Value
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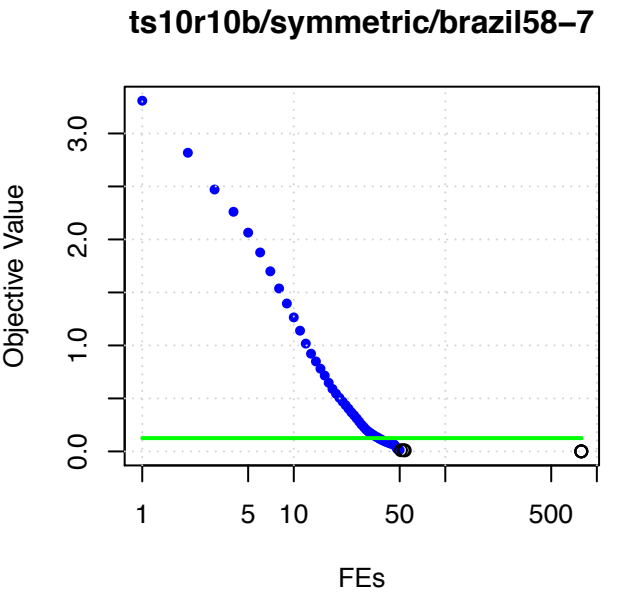
2
5
10
20
50
100
FEs


ts10r10b/symmetric/brazil58−7
Objective Value
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2.0
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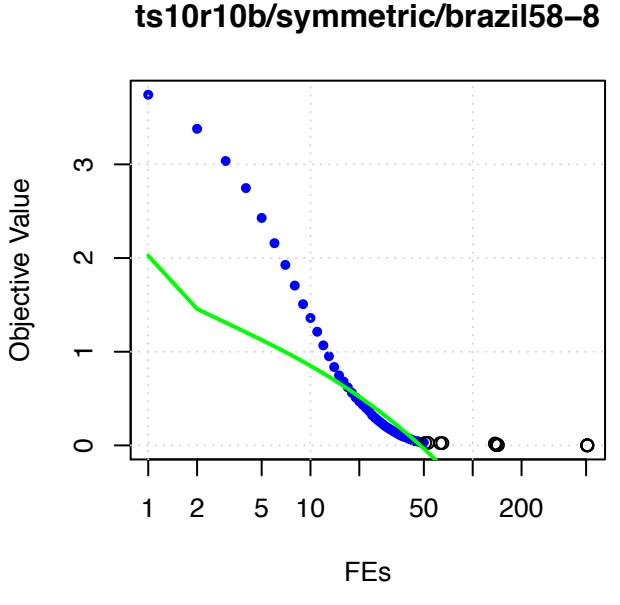
1
5
10
50
500
FEs


ts10r10b/symmetric/brazil58−8
Objective Value
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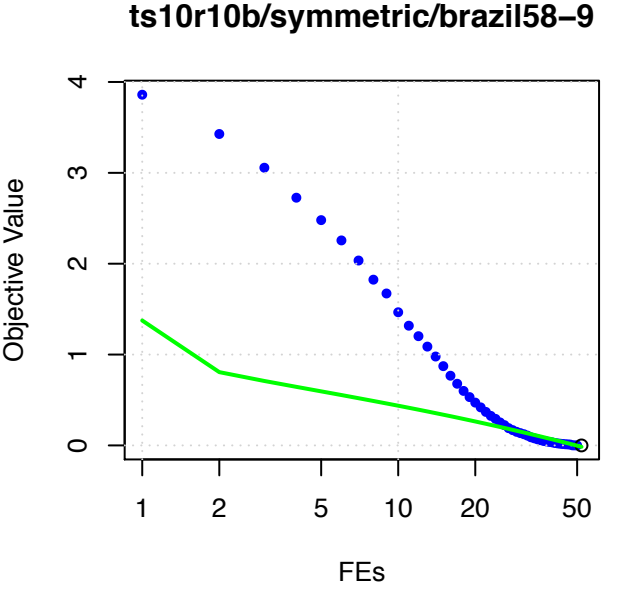
3
1
2
5
10
50
200
FEs


ts10r10b/symmetric/brazil58−9
Objective Value
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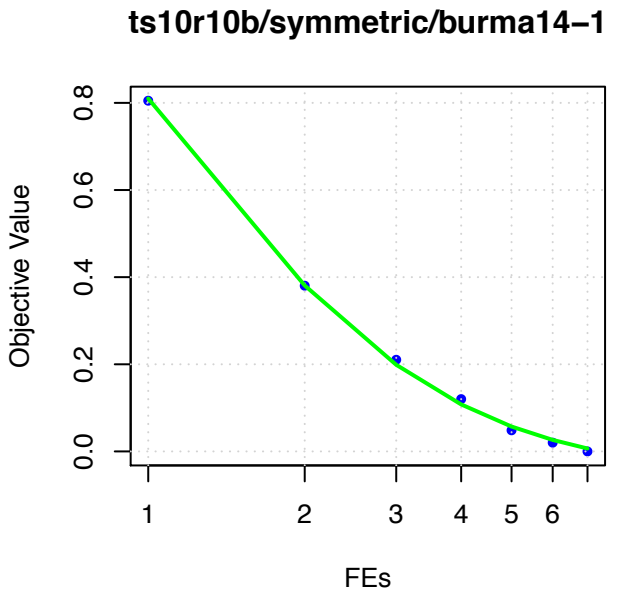
1
2
5
10
20
50
FEs


ts10r10b/symmetric/burma14−1
Objective Value
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0.6
0.8
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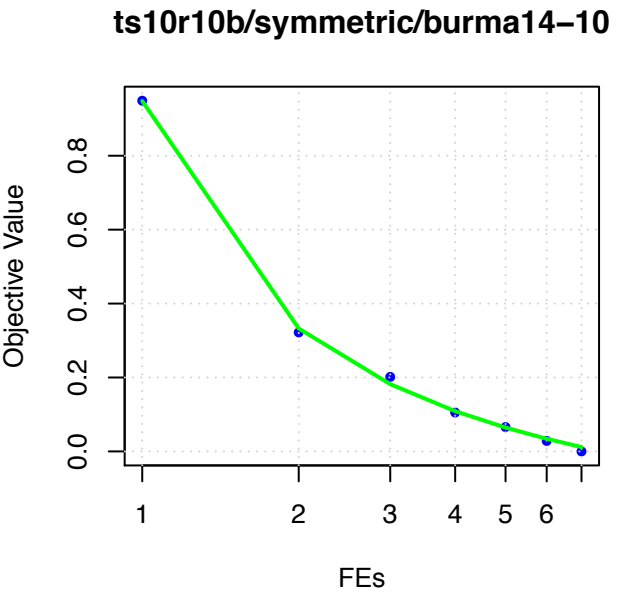
2
3
4
5
6
FEs


ts10r10b/symmetric/burma14−10
Objective Value
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0.8
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2
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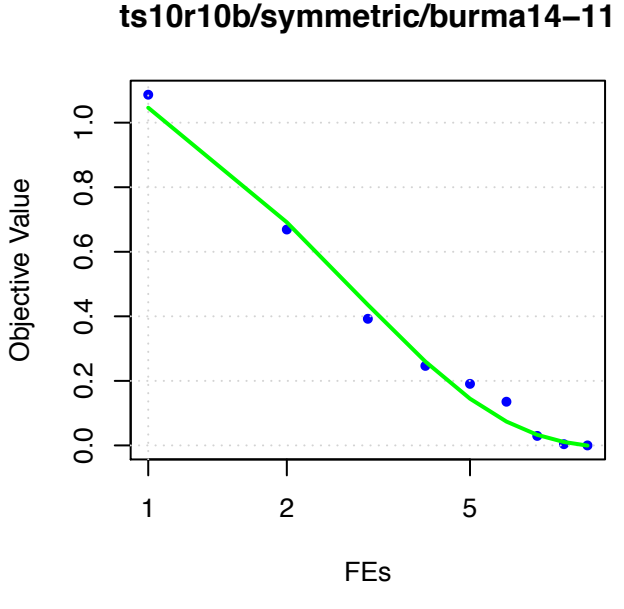
4
5
6
FEs


ts10r10b/symmetric/burma14−11
Objective Value
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0.8
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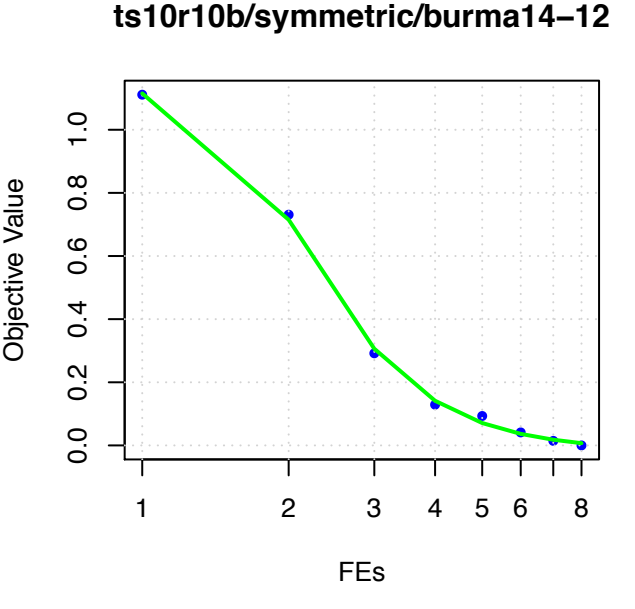
1
2
5
FEs


ts10r10b/symmetric/burma14−12
Objective Value
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0.8
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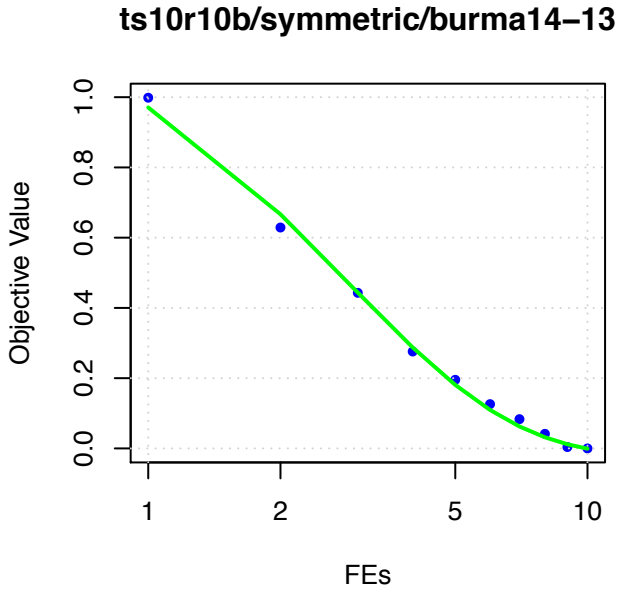
6
8
FEs


ts10r10b/symmetric/burma14−13
Objective Value
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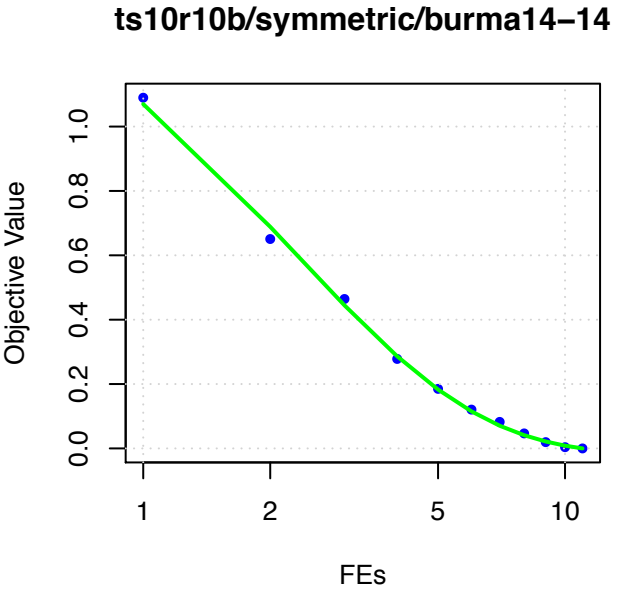
2
5
10
FEs


ts10r10b/symmetric/burma14−14
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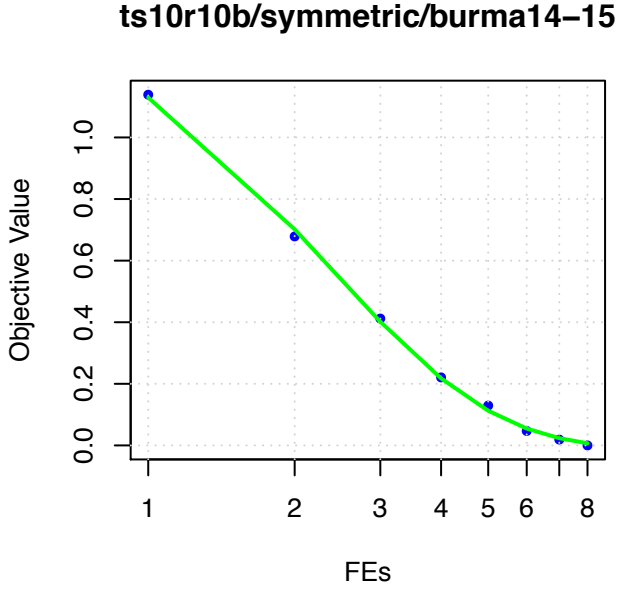
FEs


ts10r10b/symmetric/burma14−15
Objective Value
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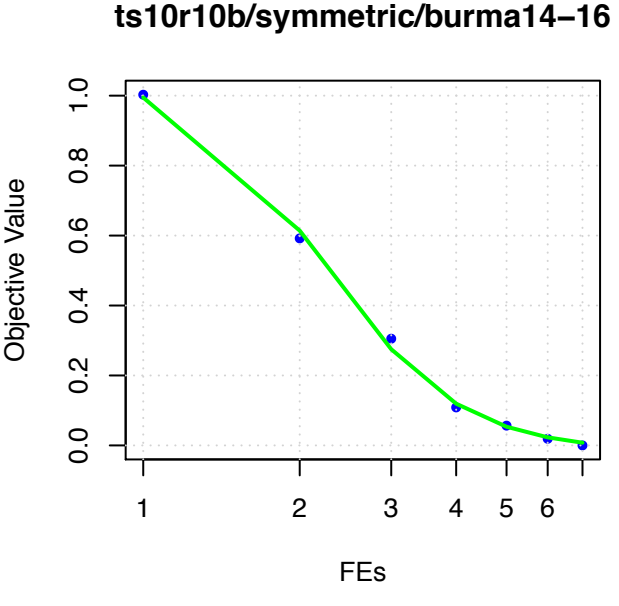
5
6
8
FEs


ts10r10b/symmetric/burma14−16
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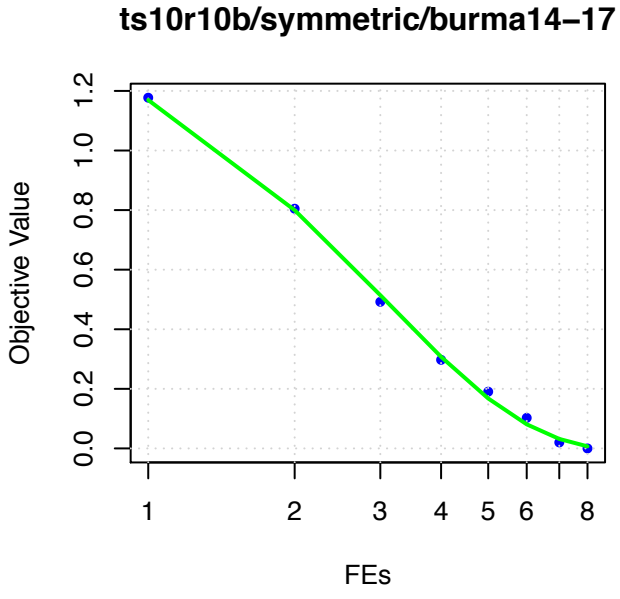
FEs


ts10r10b/symmetric/burma14−17
Objective Value
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0.6
0.8
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1.2
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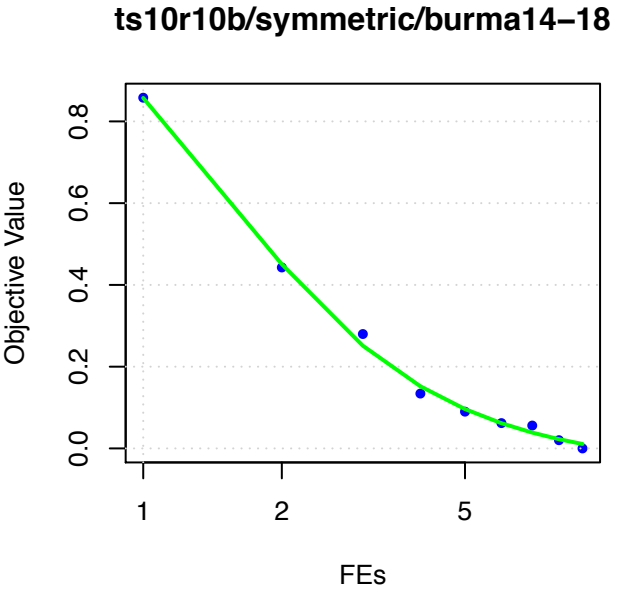
5
6
8
FEs


ts10r10b/symmetric/burma14−18
Objective Value
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0.6
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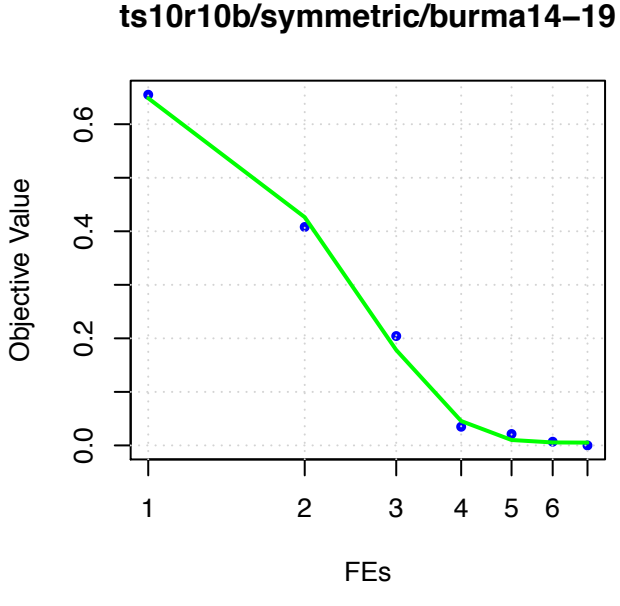
5
FEs


ts10r10b/symmetric/burma14−19
Objective Value
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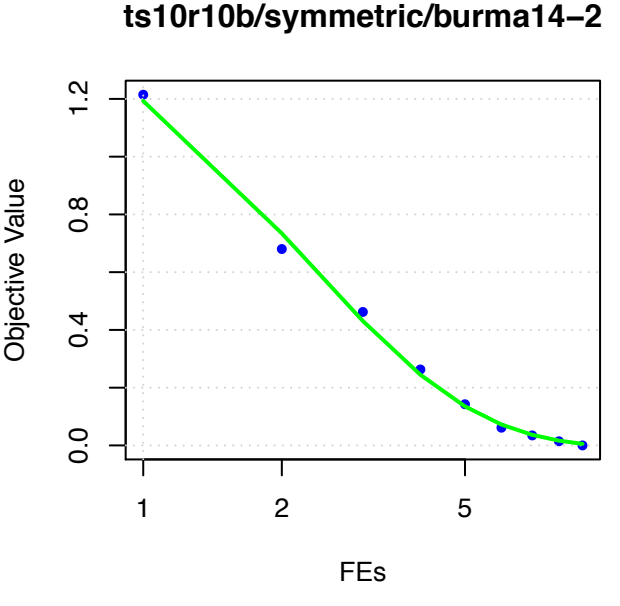
4
5
6
FEs


ts10r10b/symmetric/burma14−2
Objective Value
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0.8
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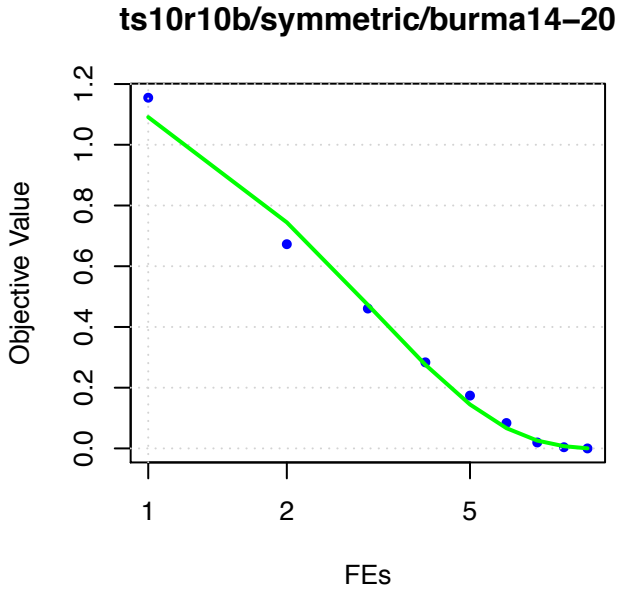
1
2
5
FEs


ts10r10b/symmetric/burma14−20
Objective Value
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0.4
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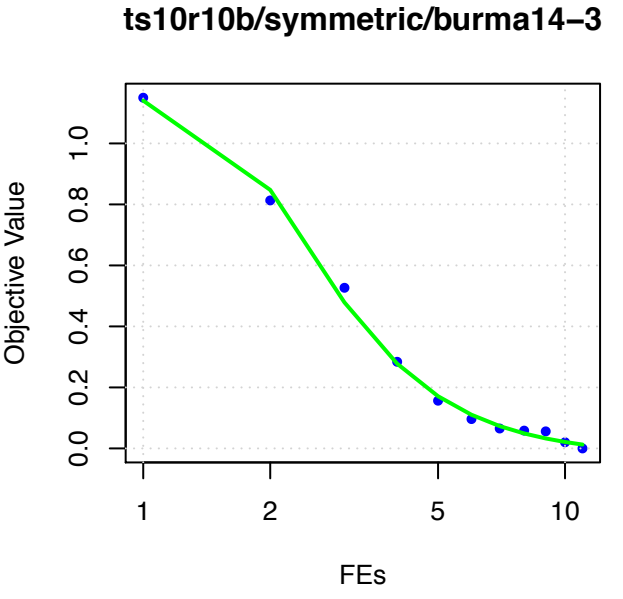
0.8
1.0
1.2
1
2
5
FEs


ts10r10b/symmetric/burma14−3
Objective Value
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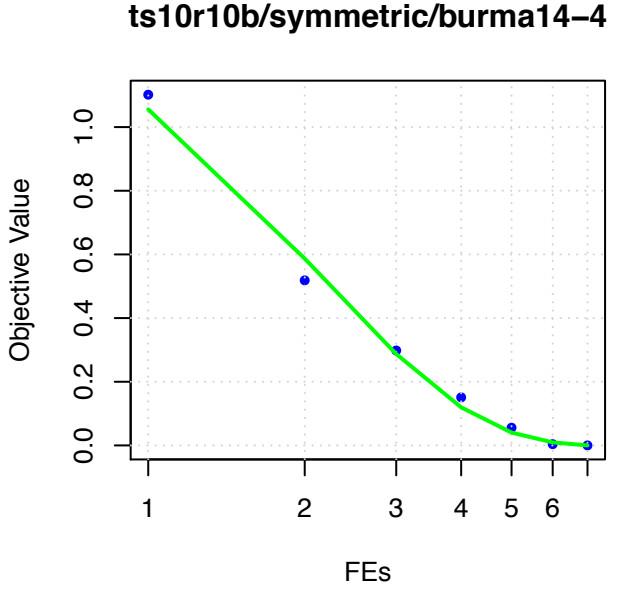
0.6
0.8
1.0
1
2
5
10
FEs


ts10r10b/symmetric/burma14−4
Objective Value
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0.6
0.8
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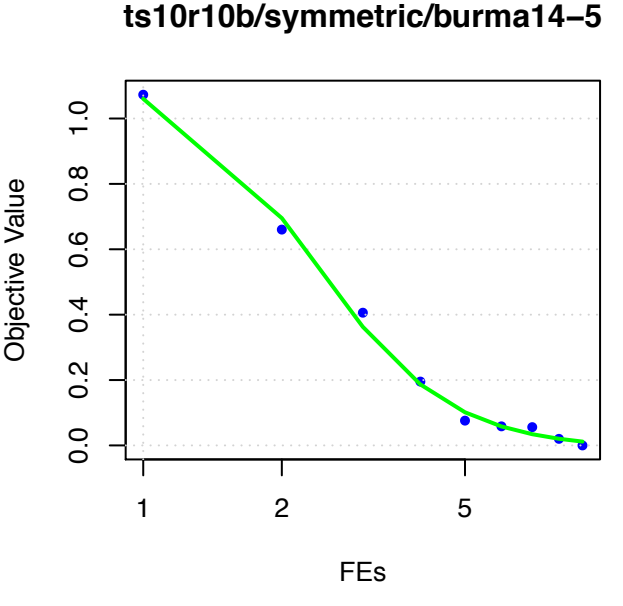
2
3
4
5
6
FEs


ts10r10b/symmetric/burma14−5
Objective Value
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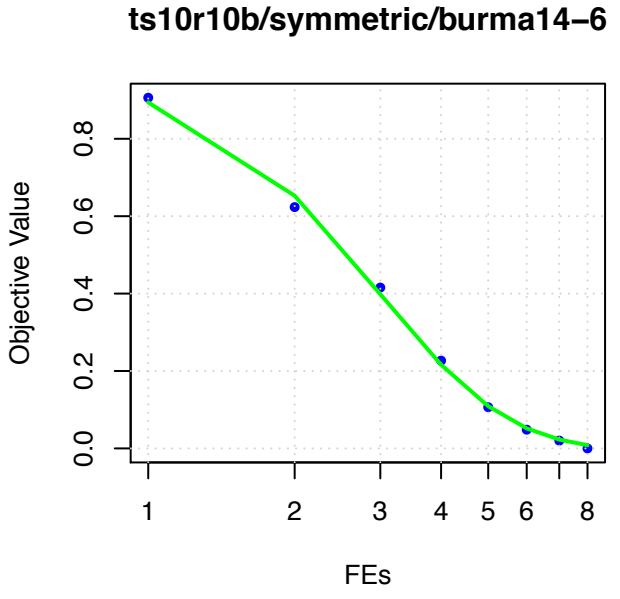
0.4
0.6
0.8
1.0
1
2
5
FEs


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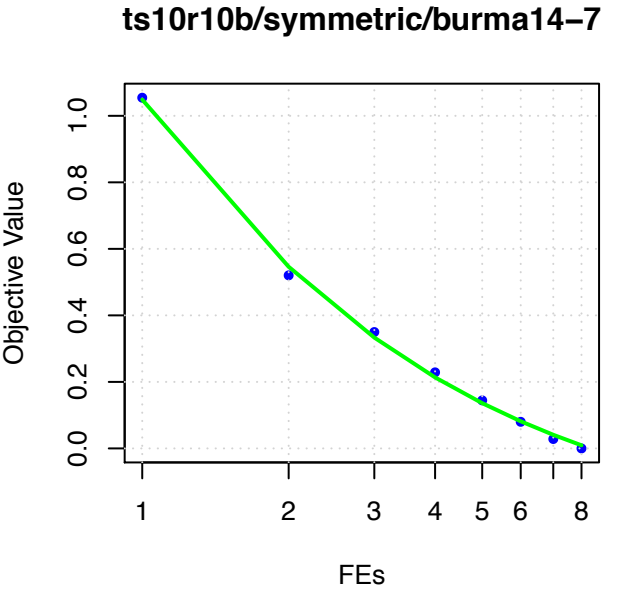
0.4
0.6
0.8
1
2
3
4
5
6
8
FEs


ts10r10b/symmetric/burma14−7
Objective Value
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0.4
0.6
0.8
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2
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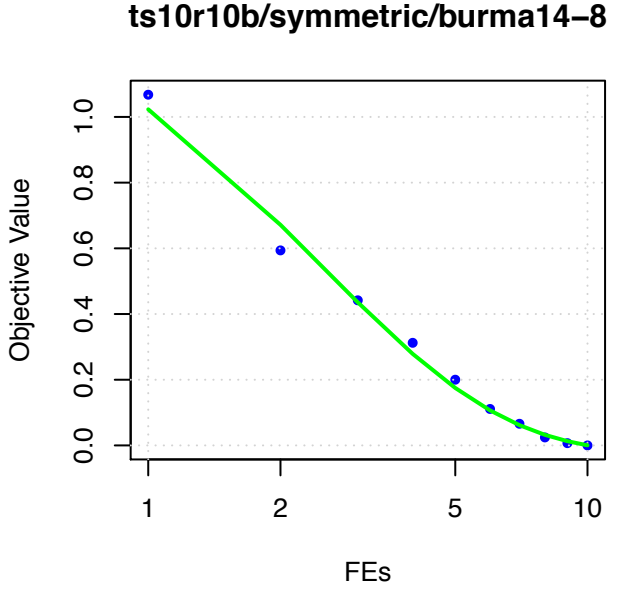
6
8
FEs


ts10r10b/symmetric/burma14−8
Objective Value
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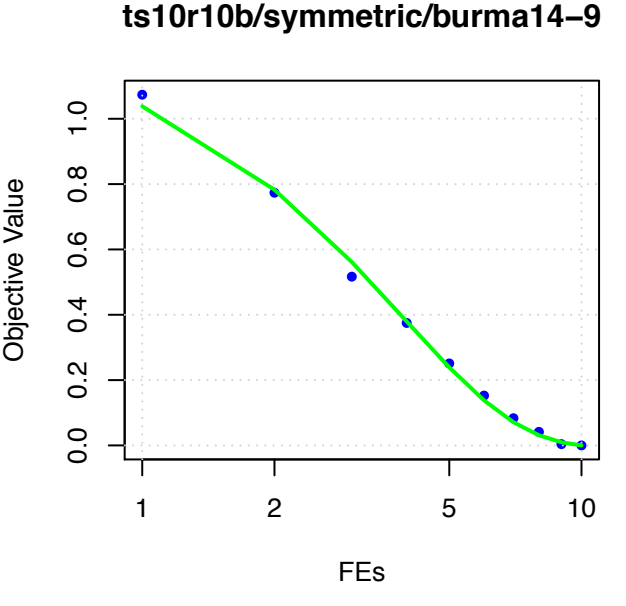
FEs


ts10r10b/symmetric/burma14−9
Objective Value
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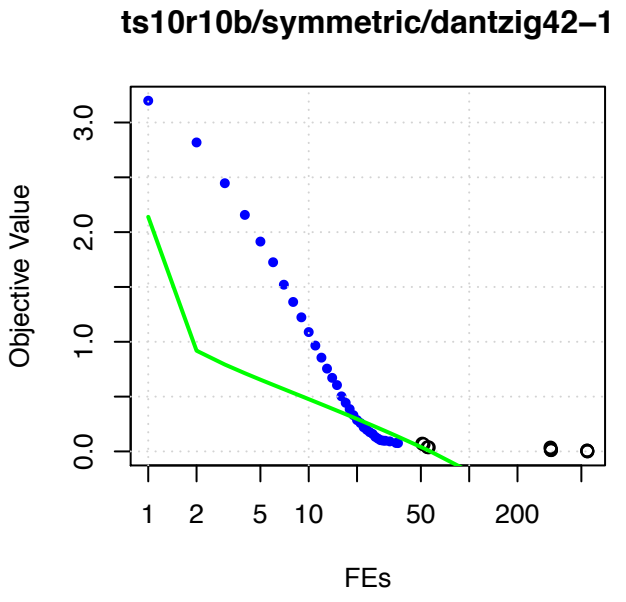
10
FEs


ts10r10b/symmetric/dantzig42−1
Objective Value
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2.0
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2
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10
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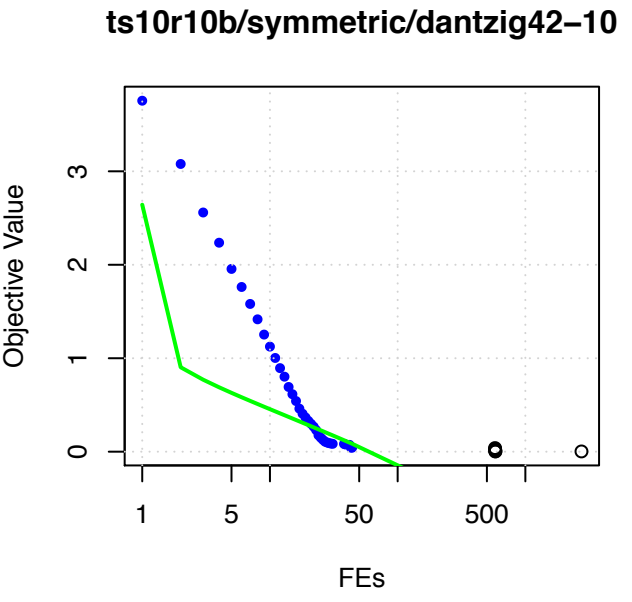
200
FEs


ts10r10b/symmetric/dantzig42−10
Objective Value
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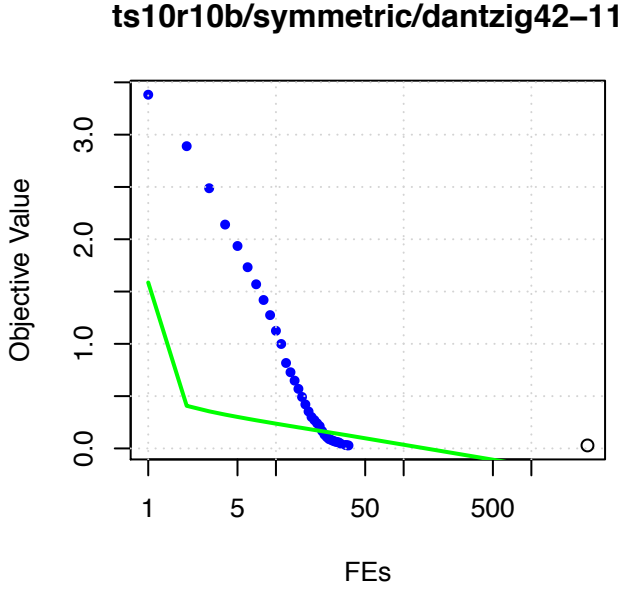
FEs


ts10r10b/symmetric/dantzig42−11
Objective Value
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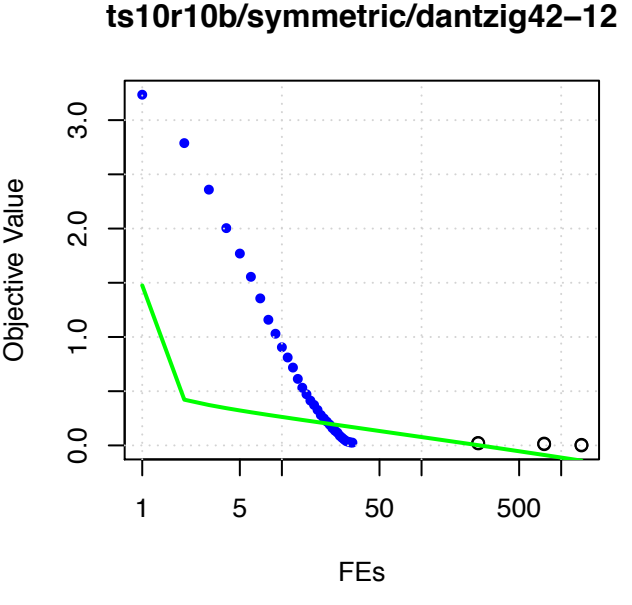
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Objective Value
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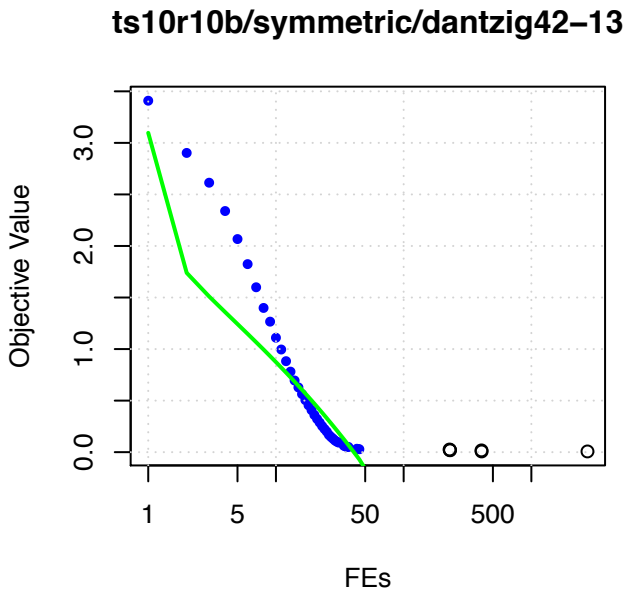
500
FEs


ts10r10b/symmetric/dantzig42−13
Objective Value
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2.0
3.0
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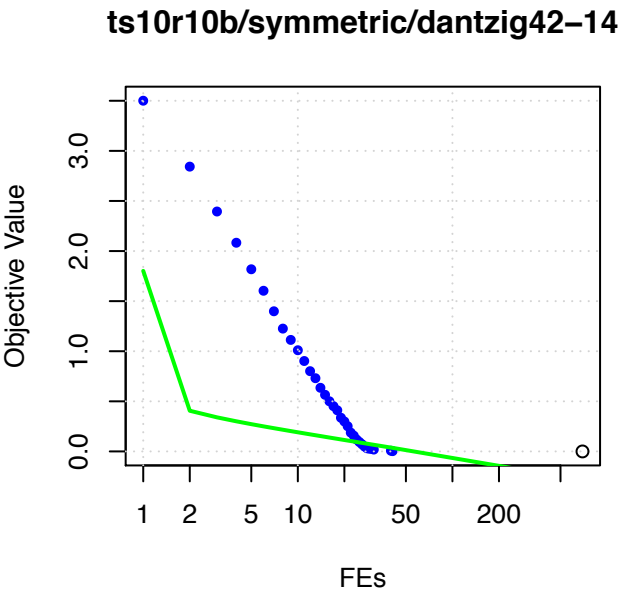
5
50
500
FEs


ts10r10b/symmetric/dantzig42−14
Objective Value
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2.0
3.0
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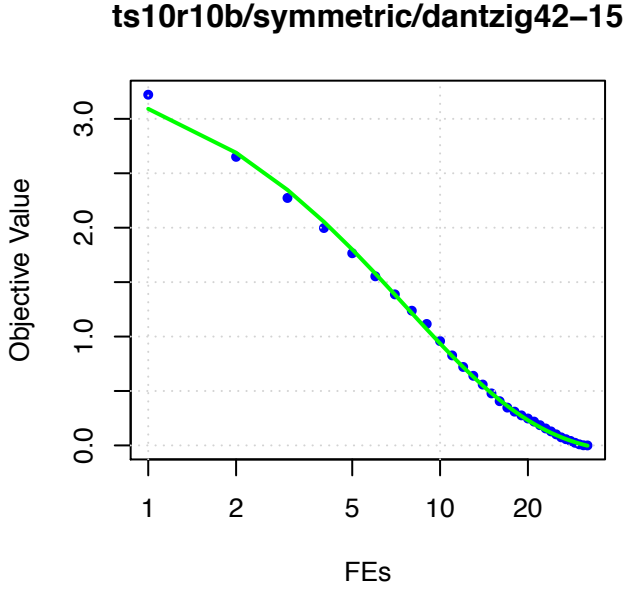
2
5
10
50
200
FEs


ts10r10b/symmetric/dantzig42−15
Objective Value
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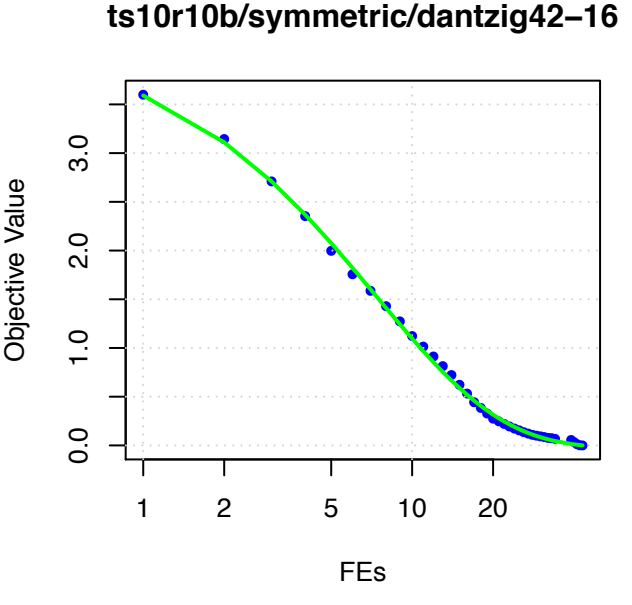
1.0
2.0
3.0
1
2
5
10
20
FEs


ts10r10b/symmetric/dantzig42−16
Objective Value
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2
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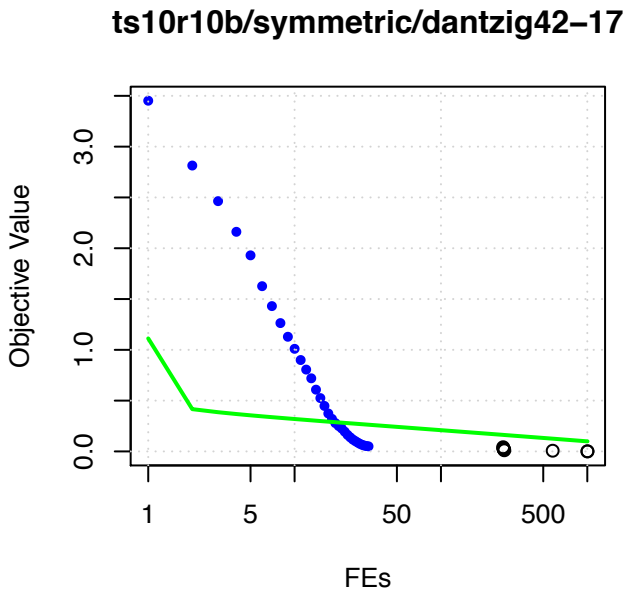
10
20
FEs


ts10r10b/symmetric/dantzig42−17
Objective Value
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2.0
3.0
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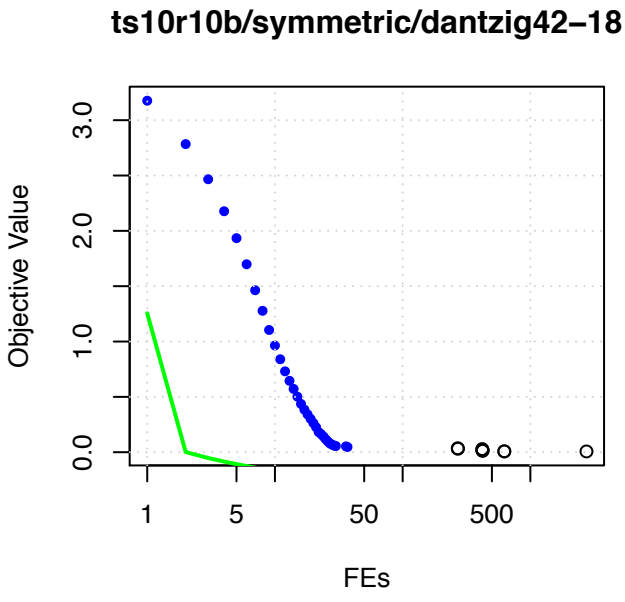
5
50
500
FEs


ts10r10b/symmetric/dantzig42−18
Objective Value
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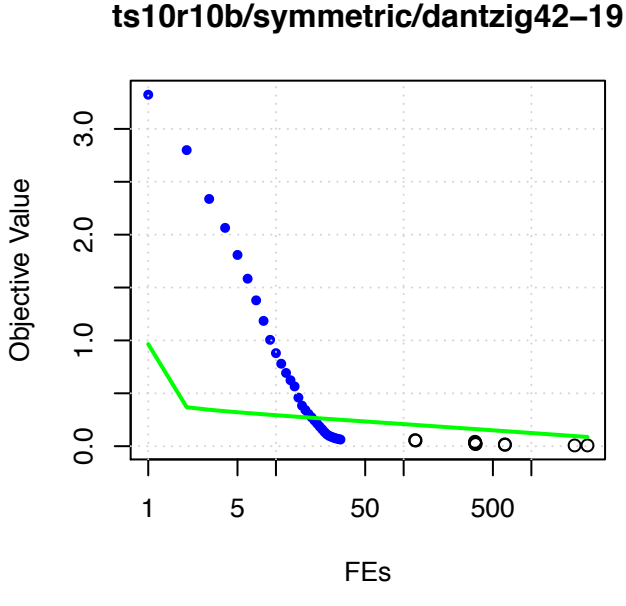
2.0
3.0
1
5
50
500
FEs


ts10r10b/symmetric/dantzig42−19
Objective Value
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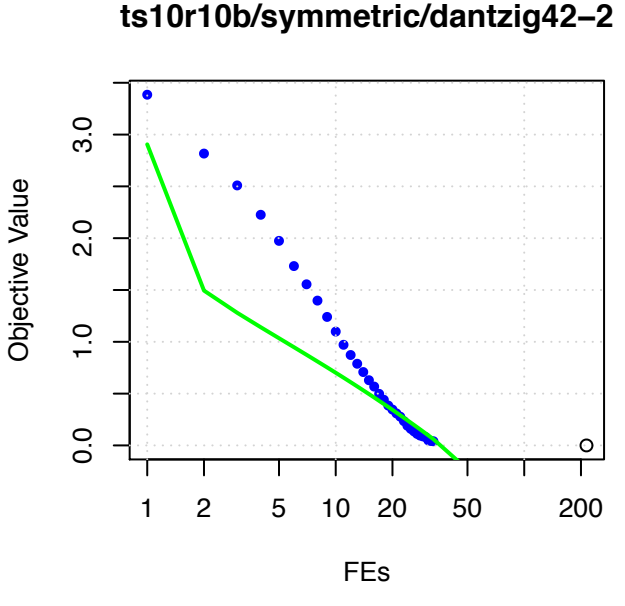
2.0
3.0
1
5
50
500
FEs


ts10r10b/symmetric/dantzig42−2
Objective Value
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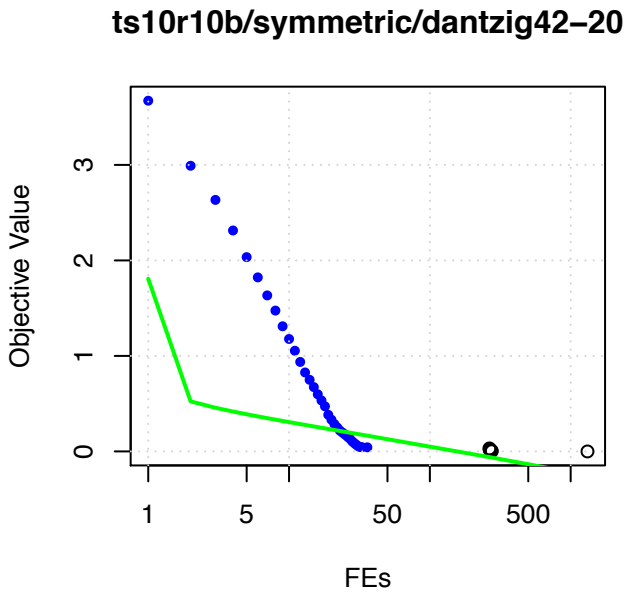
1.0
2.0
3.0
1
2
5
10
20
50
200
FEs


ts10r10b/symmetric/dantzig42−20
Objective Value
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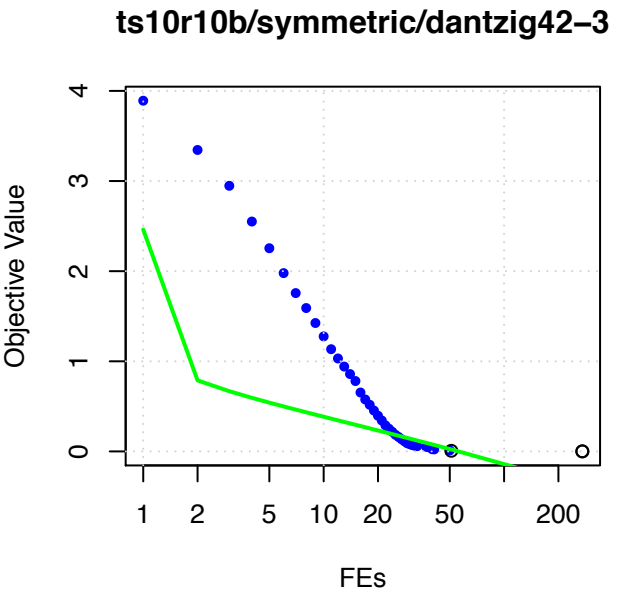
1
2
3
1
5
50
500
FEs


ts10r10b/symmetric/dantzig42−3
Objective Value
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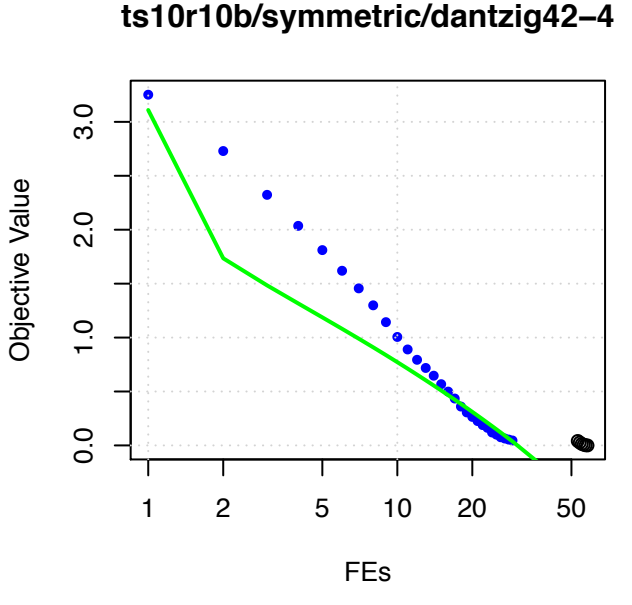
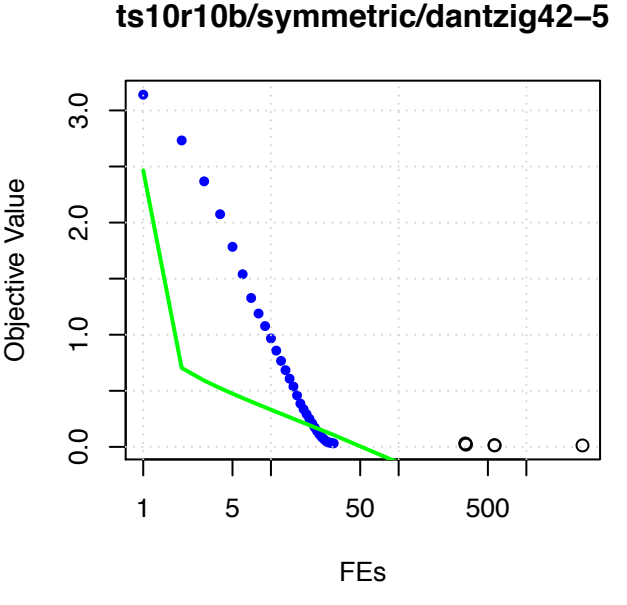
2
3
4
1
2
5
10
20
50
200
FEs


ts10r10b/symmetric/dantzig42−4
Objective Value
0.0
1.0
2.0
3.0
1
2
5
10
20
50
FEs


ts10r10b/symmetric/dantzig42−5
Objective Value
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2.0
3.0
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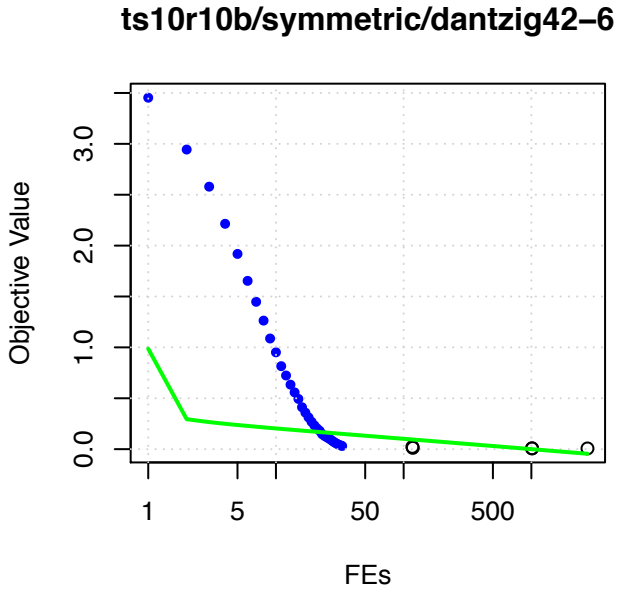
5
50
500
FEs


ts10r10b/symmetric/dantzig42−6
Objective Value
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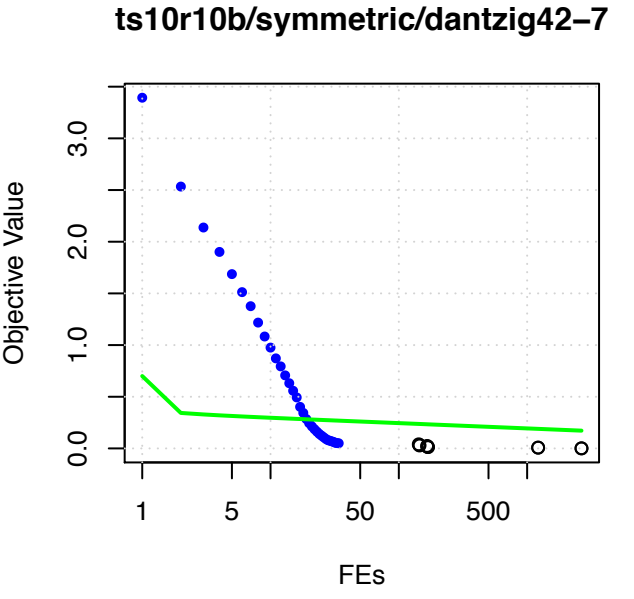
2.0
3.0
1
5
50
500
FEs


ts10r10b/symmetric/dantzig42−7
Objective Value
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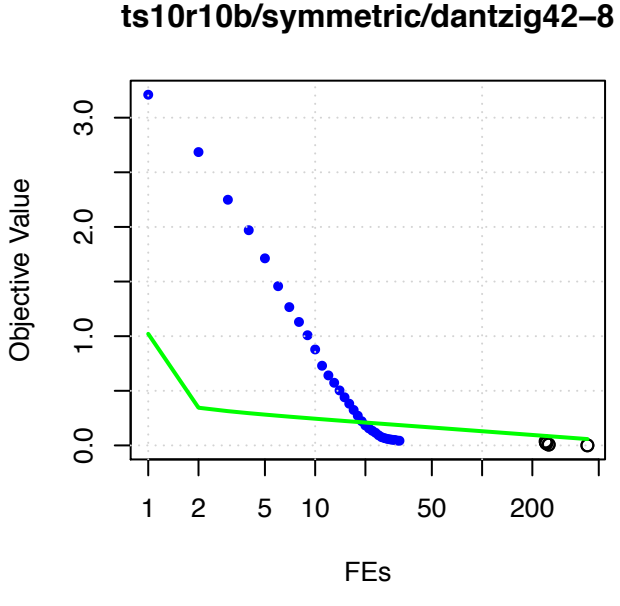
1.0
2.0
3.0
1
5
50
500
FEs


ts10r10b/symmetric/dantzig42−8
Objective Value
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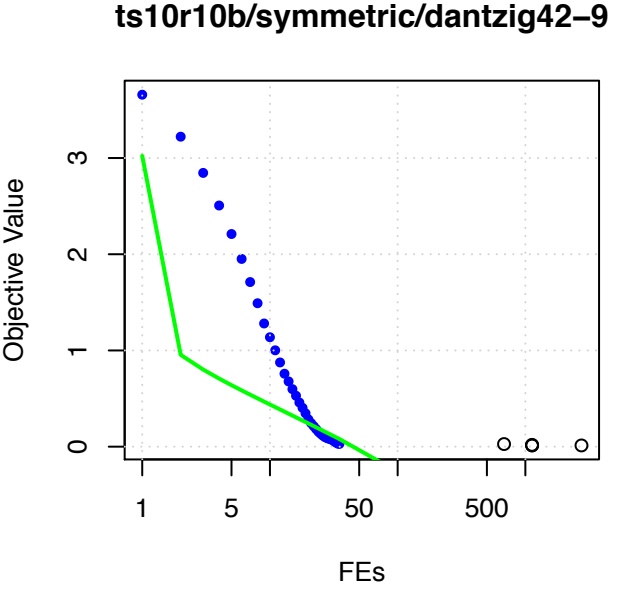
1.0
2.0
3.0
1
2
5
10
50
200
FEs


ts10r10b/symmetric/dantzig42−9
Objective Value
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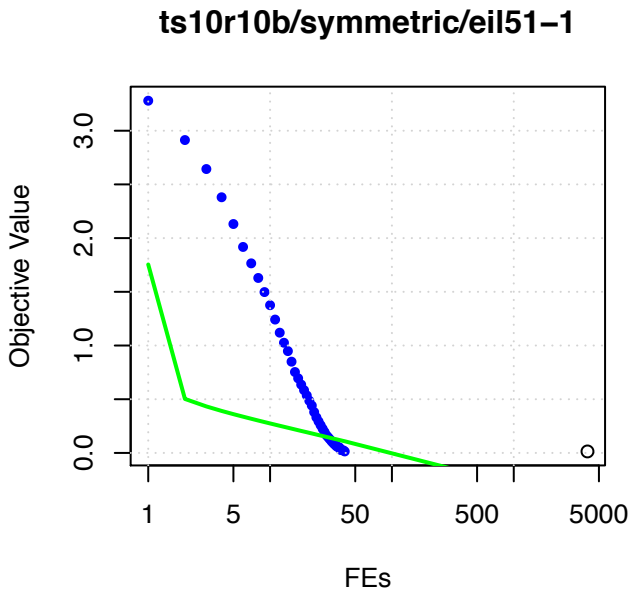
5
50
500
FEs


ts10r10b/symmetric/eil51−1
Objective Value
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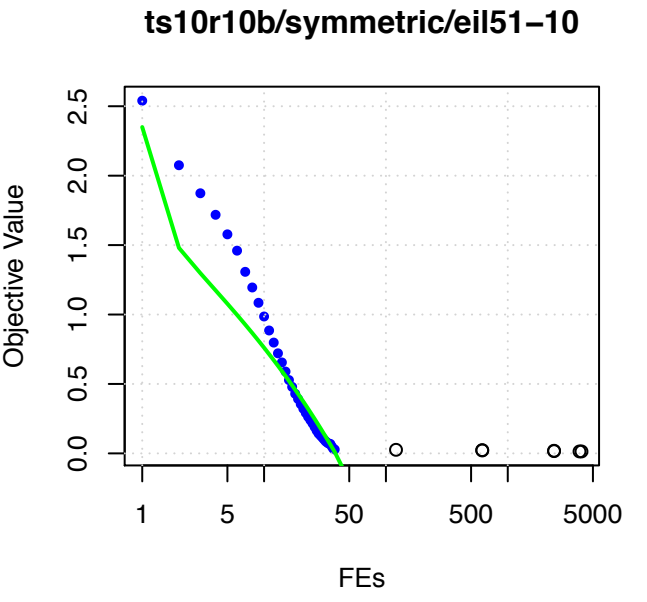
5
50
500
5000
FEs


ts10r10b/symmetric/eil51−10
Objective Value
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1
5
50
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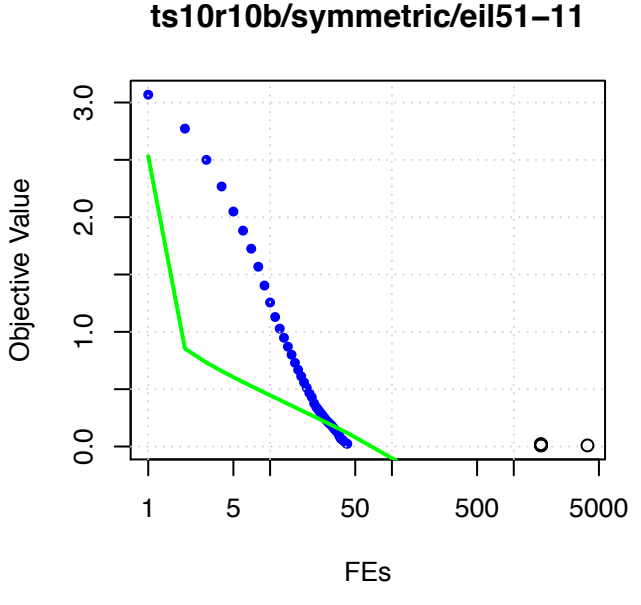
5000
FEs


ts10r10b/symmetric/eil51−11
Objective Value
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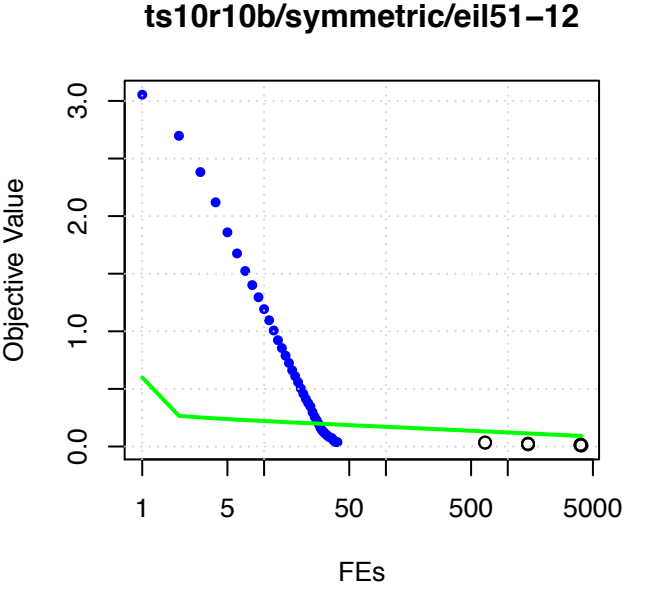
5000
FEs


ts10r10b/symmetric/eil51−12
Objective Value
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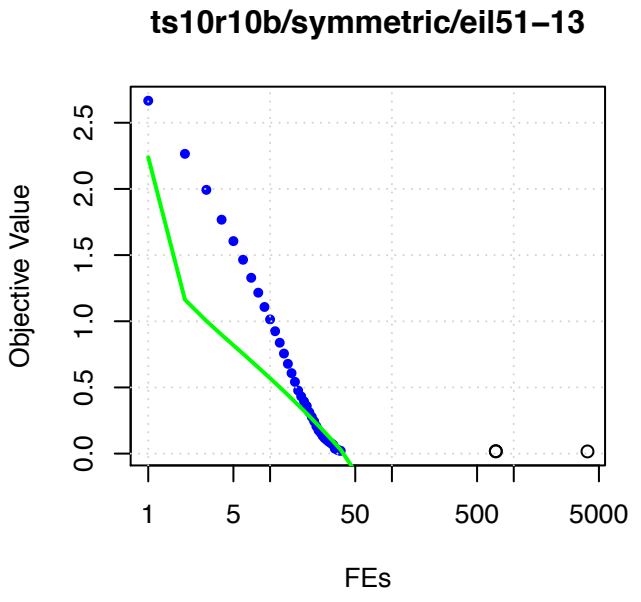
FEs


ts10r10b/symmetric/eil51−13
Objective Value
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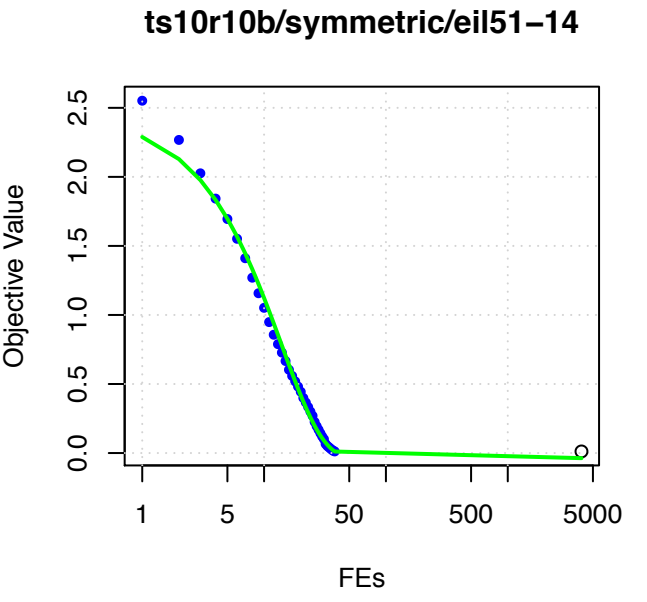
FEs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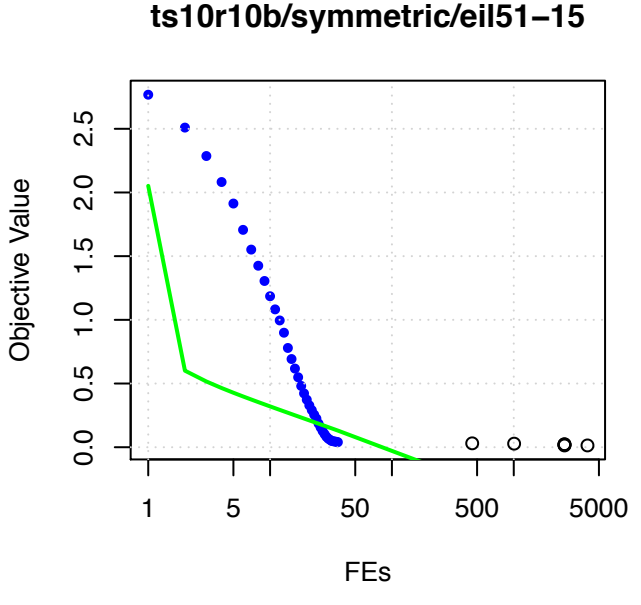
ts10r10b/symmetric/eil51−15
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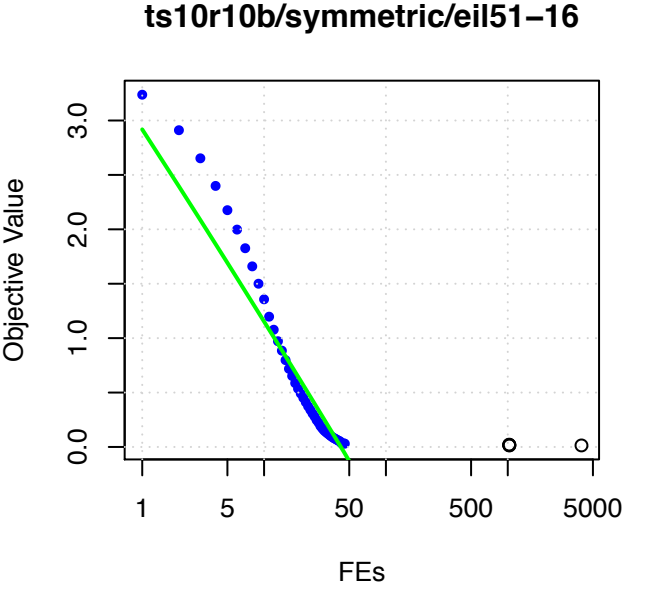
FEs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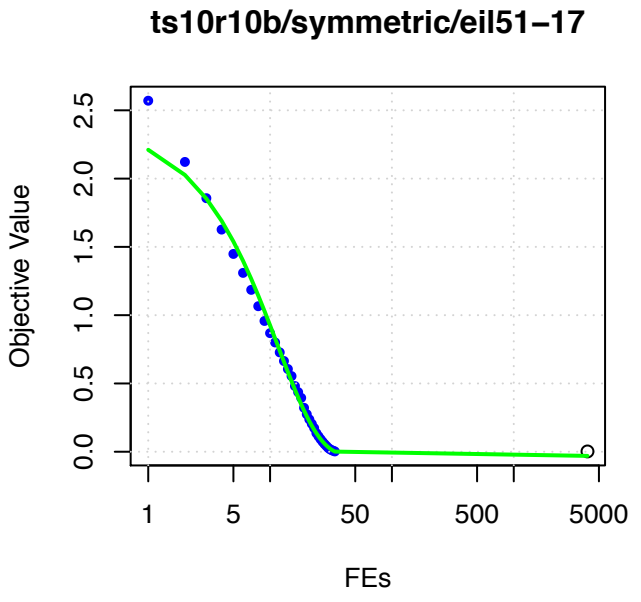
FEs


ts10r10b/symmetric/eil51−17
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1.5
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1
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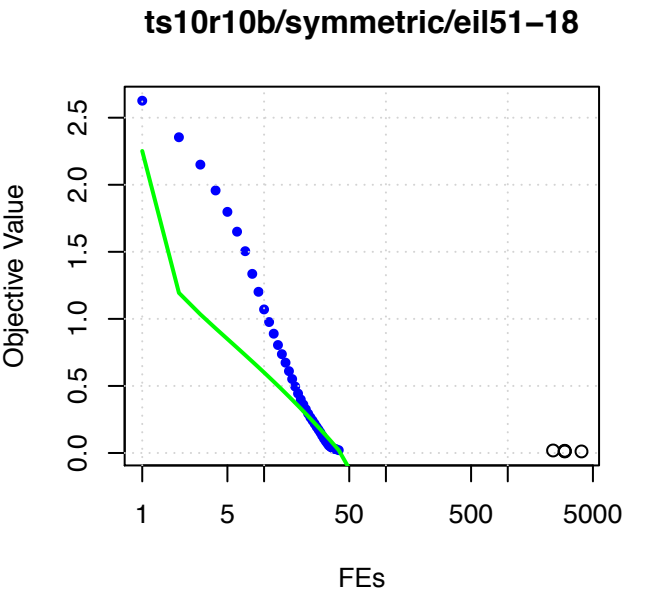
5000
FEs


ts10r10b/symmetric/eil51−18
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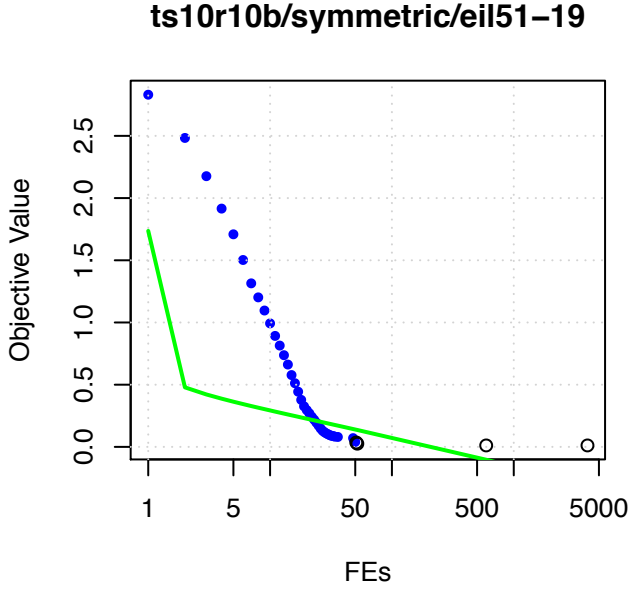
FEs


ts10r10b/symmetric/eil51−19
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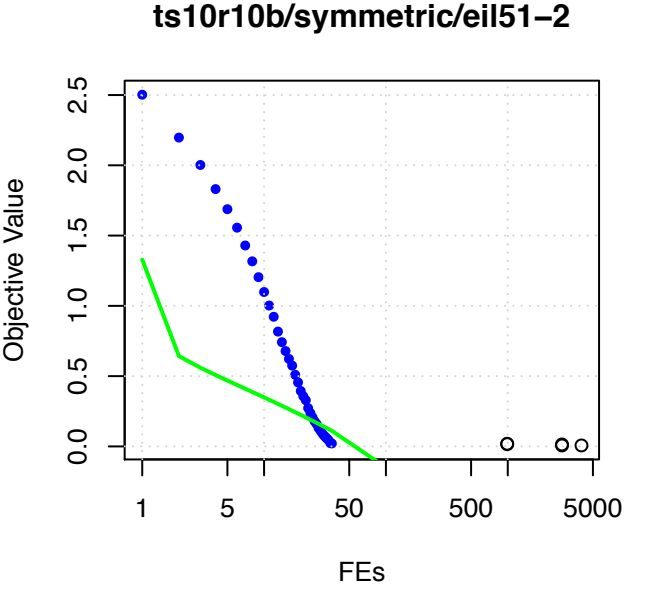
FEs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1
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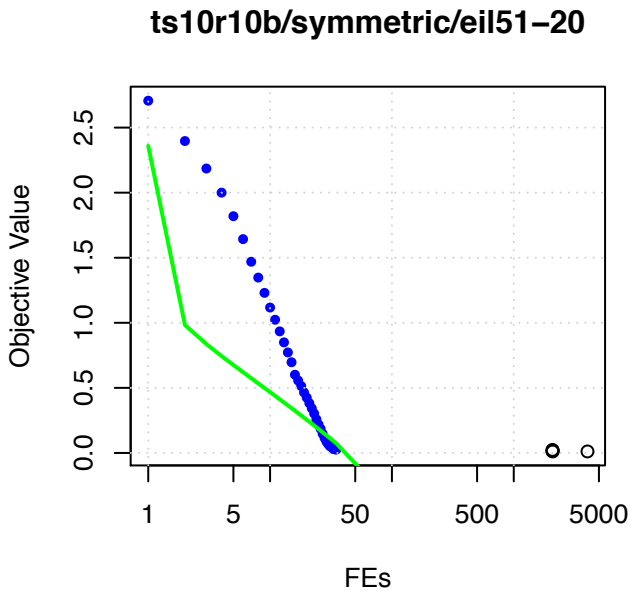
5000
FEs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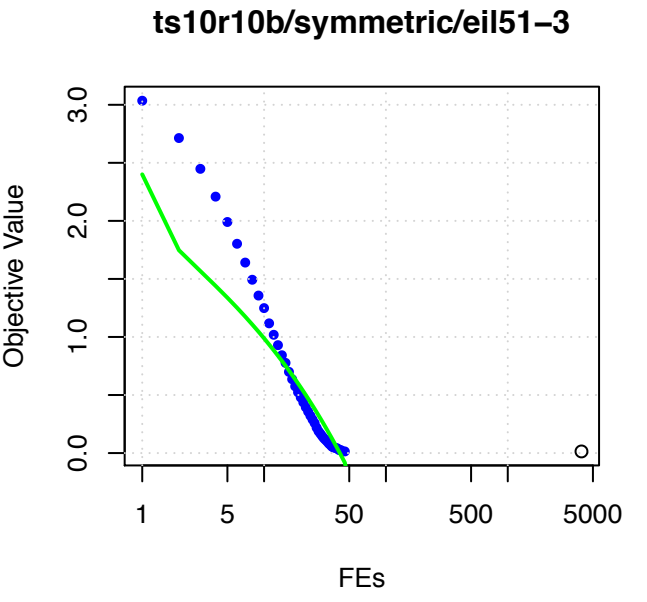
5000
FEs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3.0
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50
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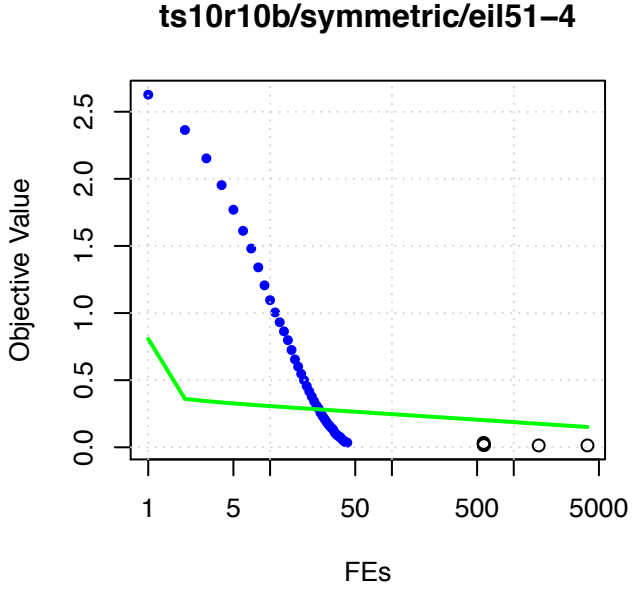
5000
FEs


ts10r10b/symmetric/eil51−4
Objective Value
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2.5
1
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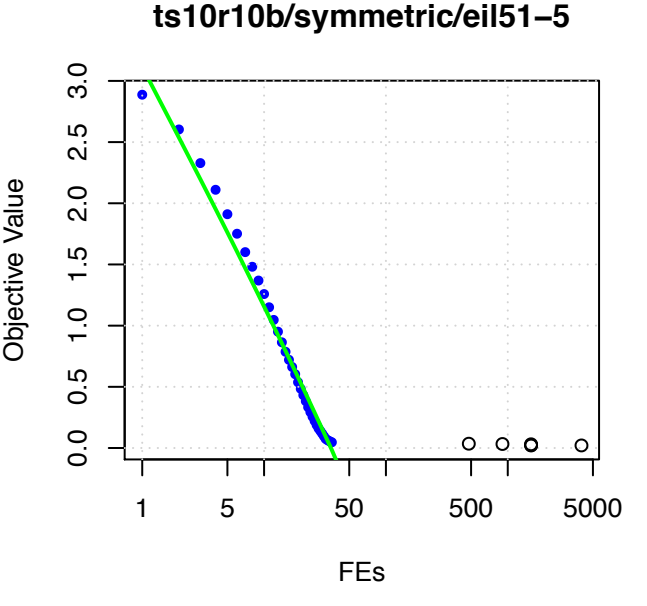
50
500
5000
FEs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2.5
3.0
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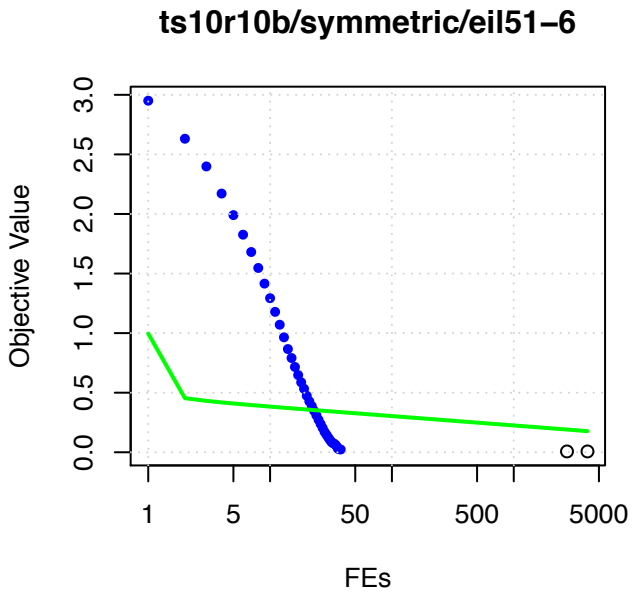
50
500
5000
FEs


ts10r10b/symmetric/eil51−6
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1.5
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2.5
3.0
1
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50
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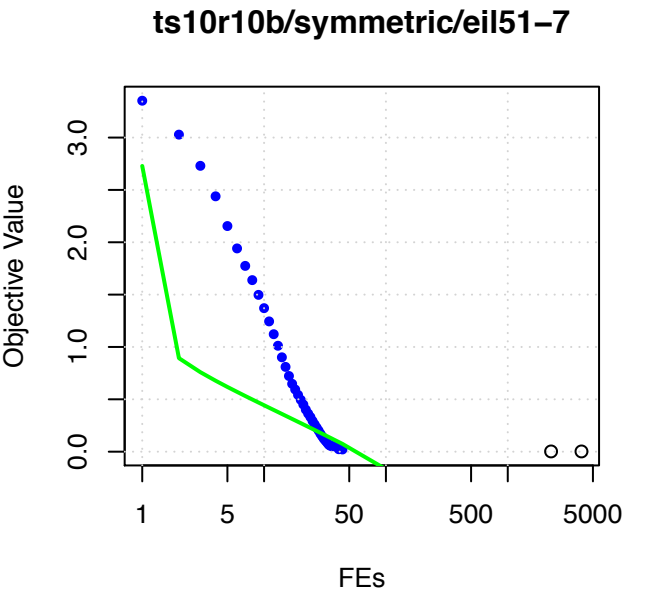
5000
FEs


ts10r10b/symmetric/eil51−7
Objective Value
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3.0
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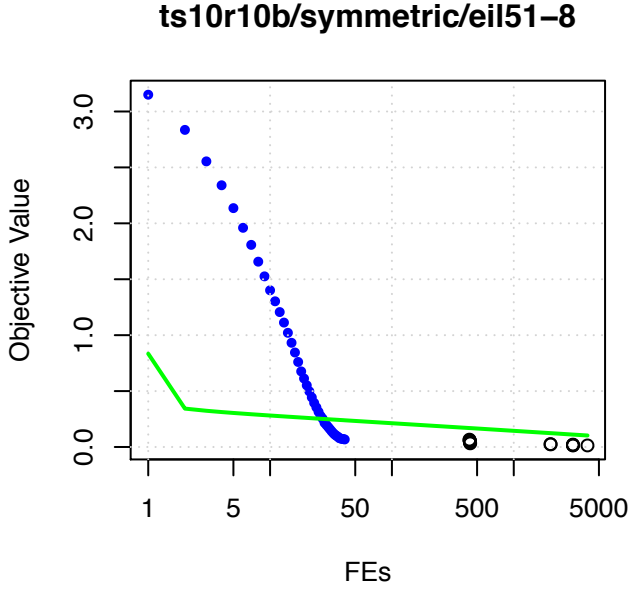
5000
FEs


ts10r10b/symmetric/eil51−8
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3.0
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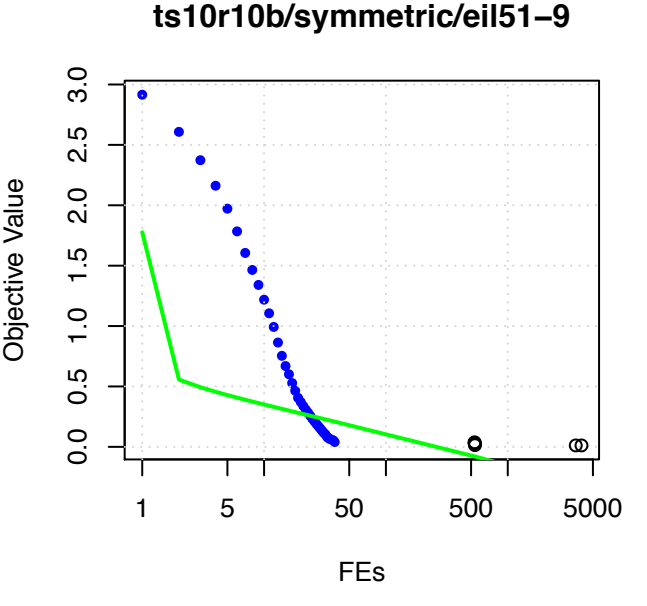
5000
FEs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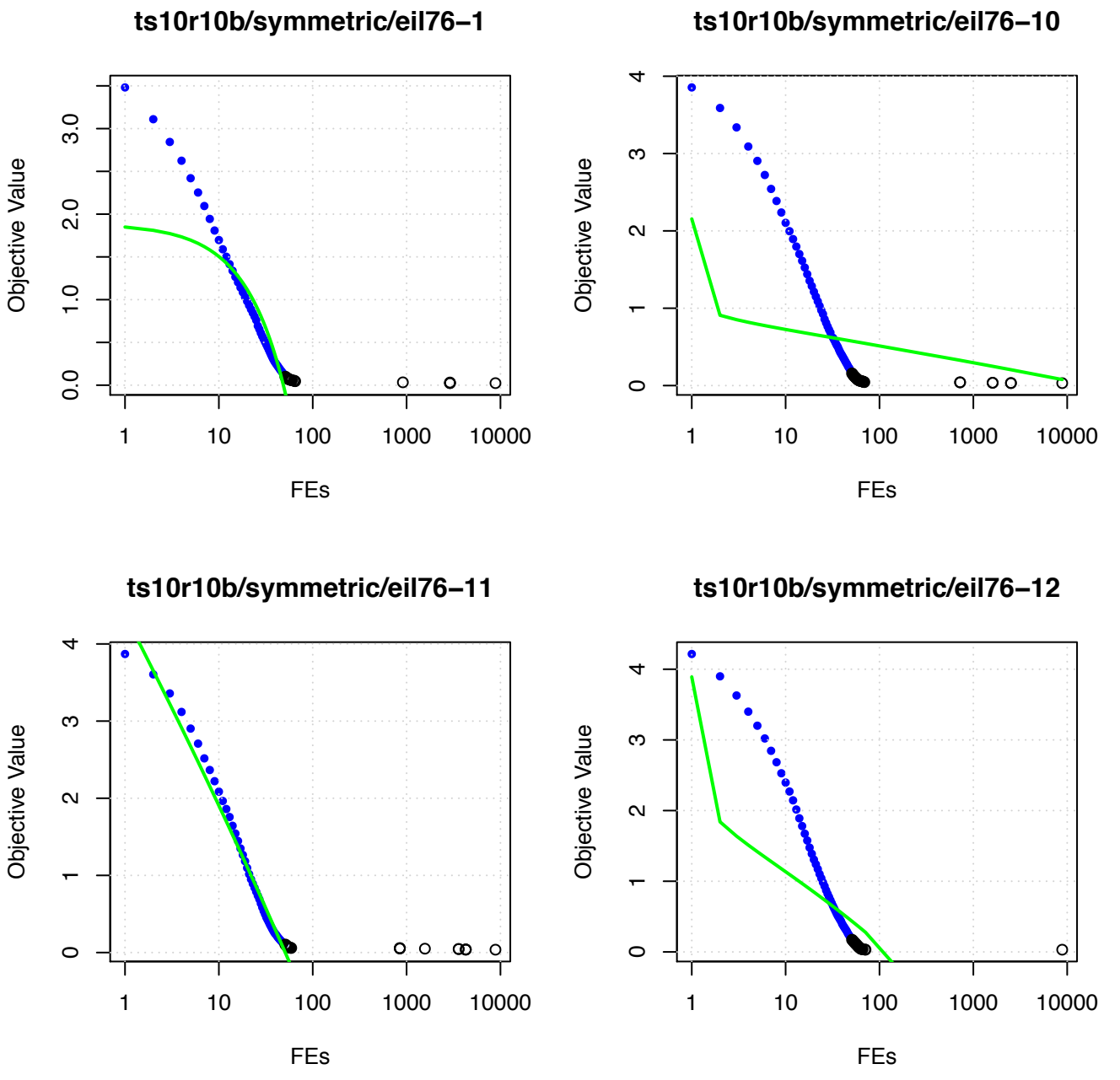
FEs


ts10r10b/symmetric/eil76−1
ts10r10b/symmetric/eil76−10
ts10r10b/symmetric/eil76−11
ts10r10b/symmetric/eil76−12
Objective Value
FEs
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2.0
3.0
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3
4
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100
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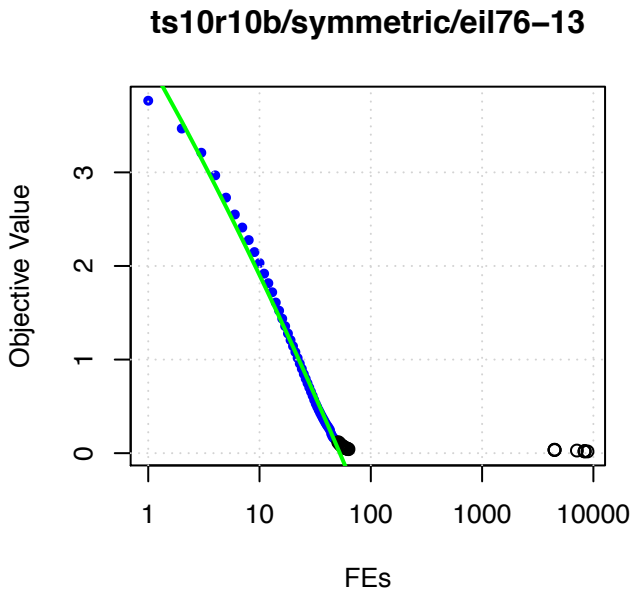
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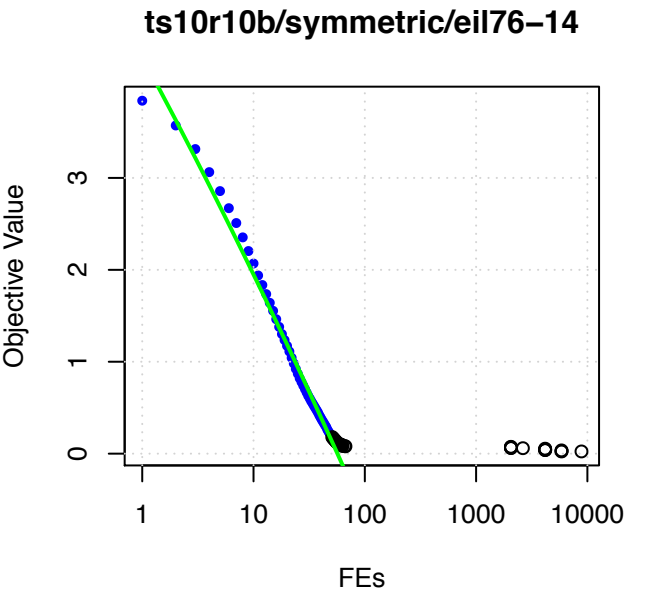
ts10r10b/symmetric/eil76−14
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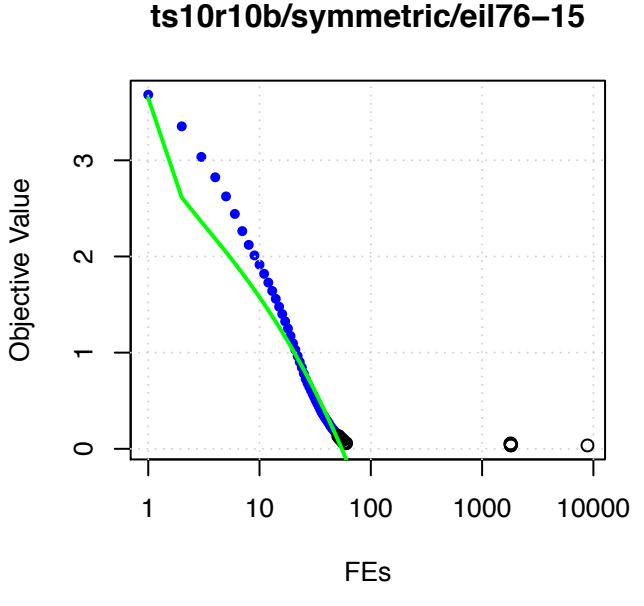
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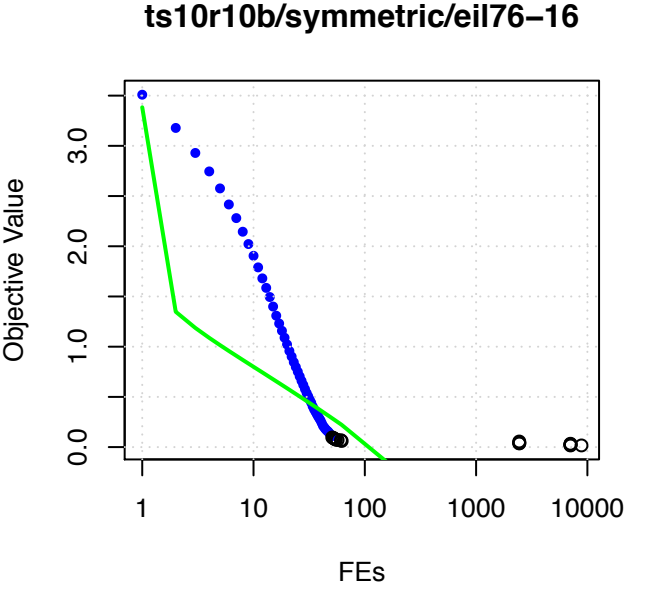
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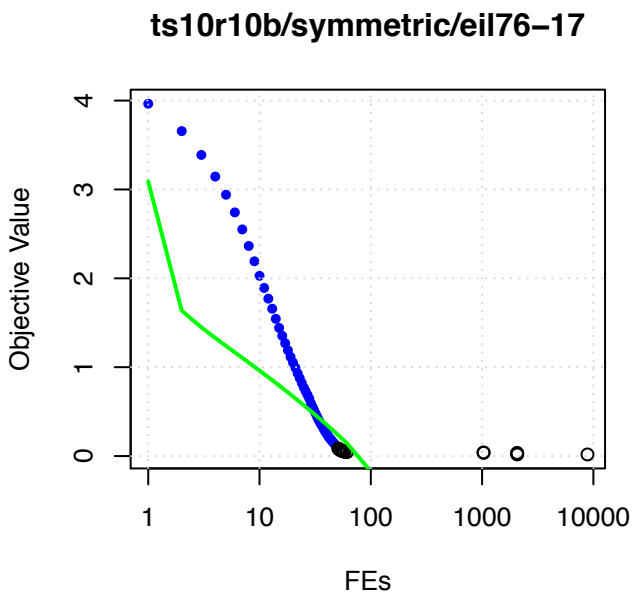
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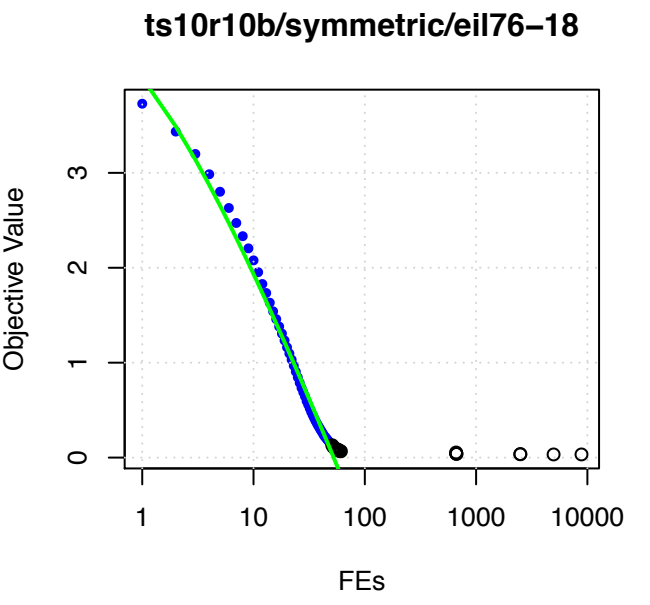
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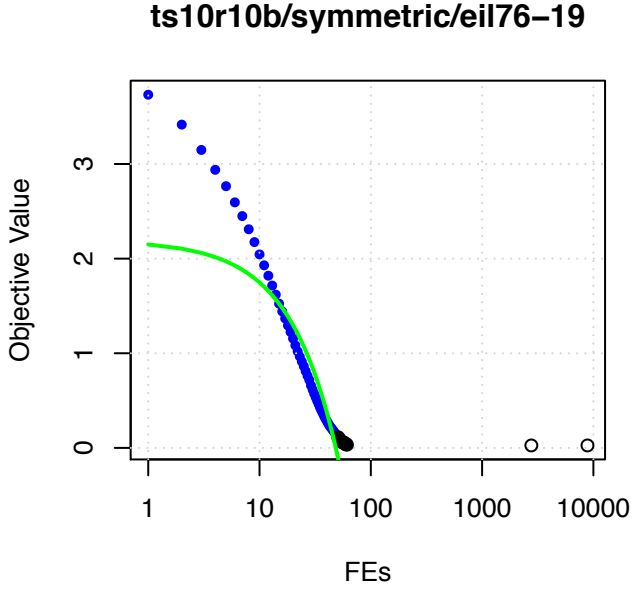
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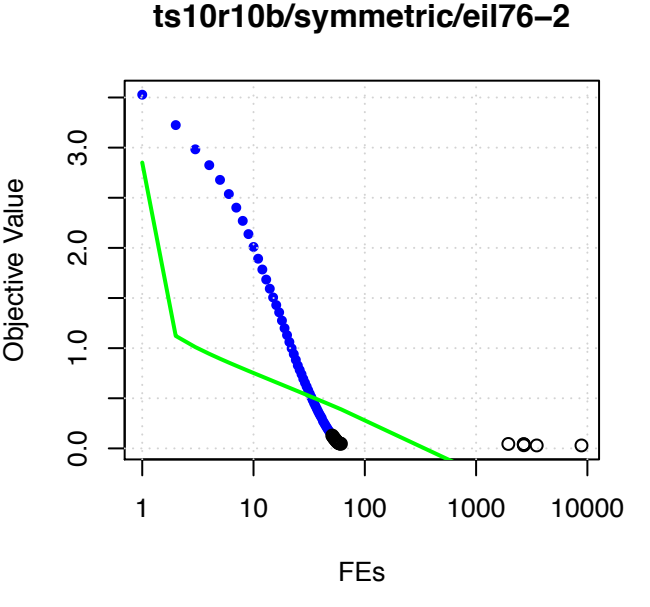
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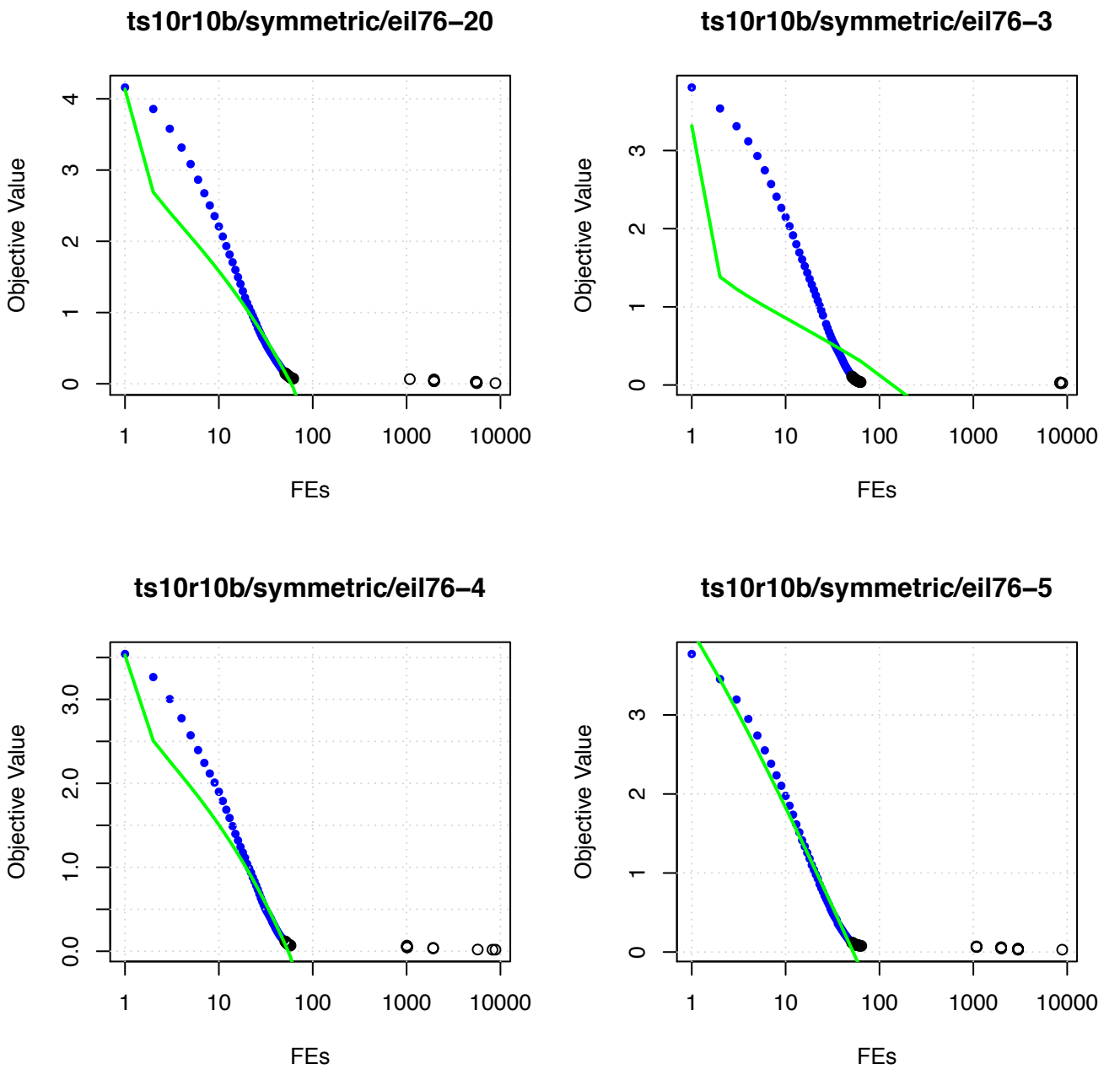
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ts10r10b/symmetric/eil76−3
ts10r10b/symmetric/eil76−4
ts10r10b/symmetric/eil76−5
Objective Value
FEs
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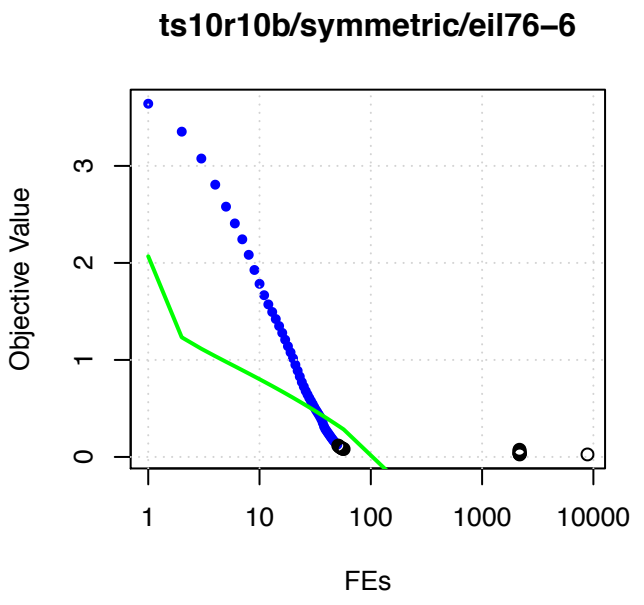
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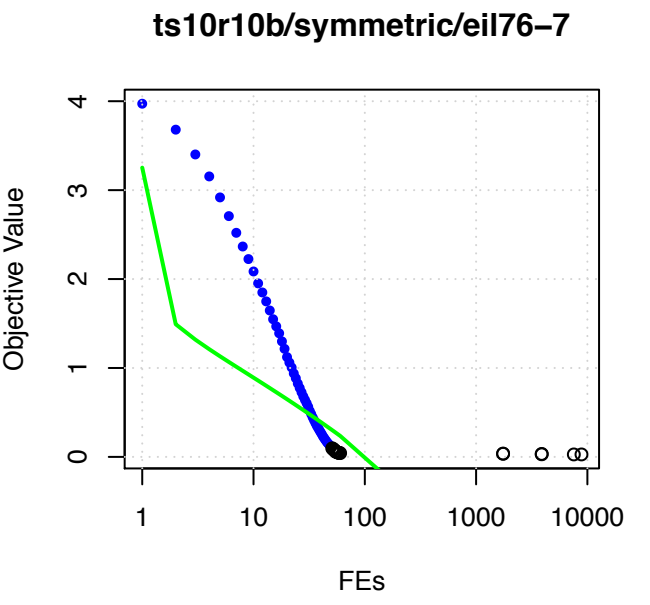
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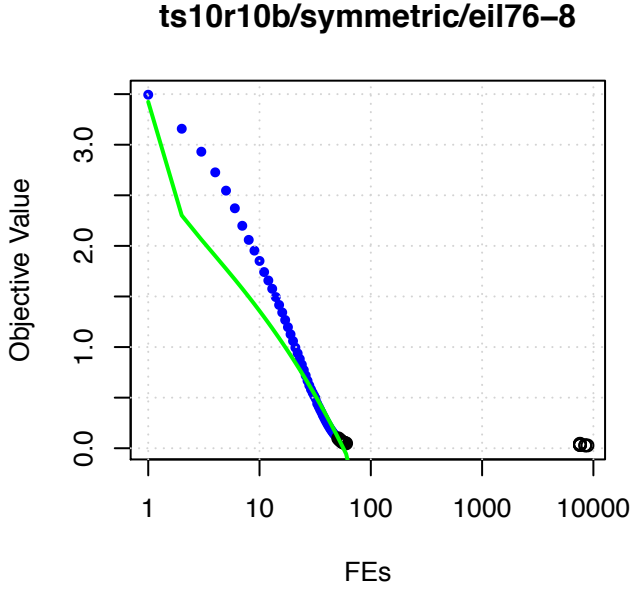
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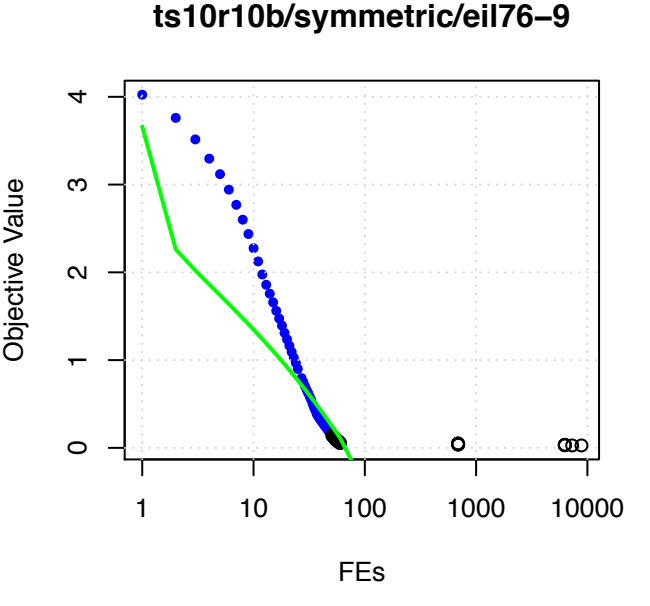
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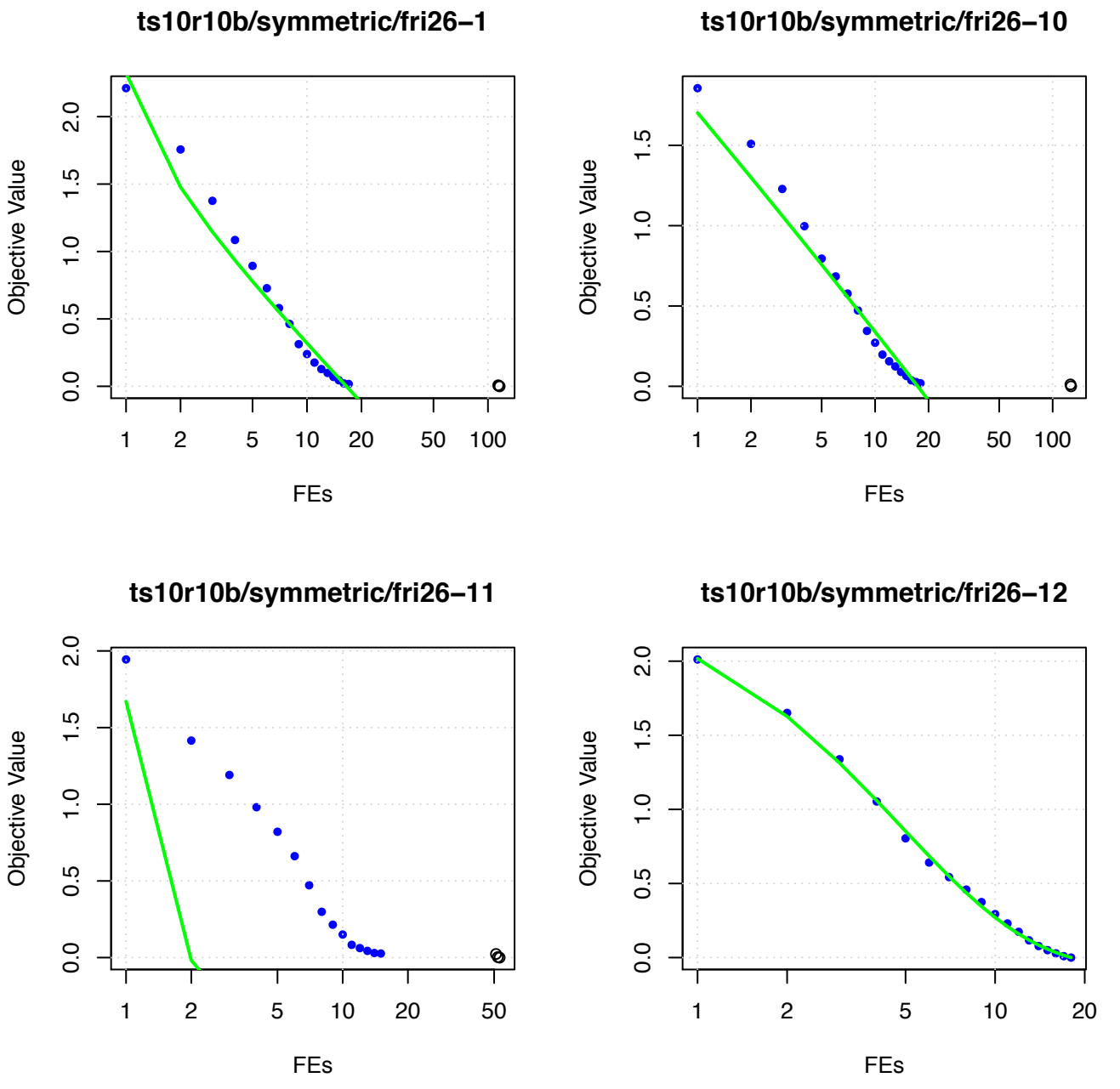
FEs


ts10r10b/symmetric/fri26−1
ts10r10b/symmetric/fri26−10
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FEs
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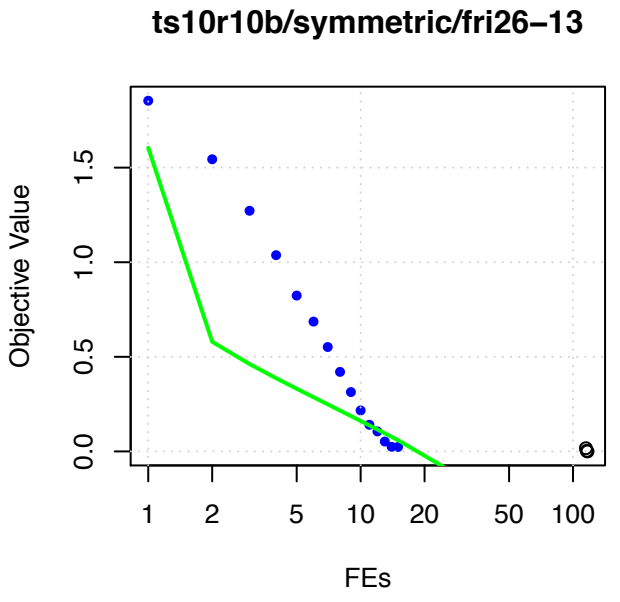
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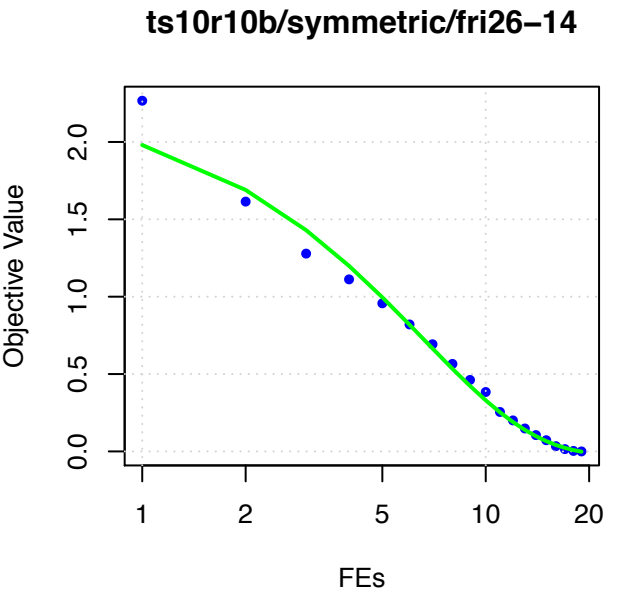
FEs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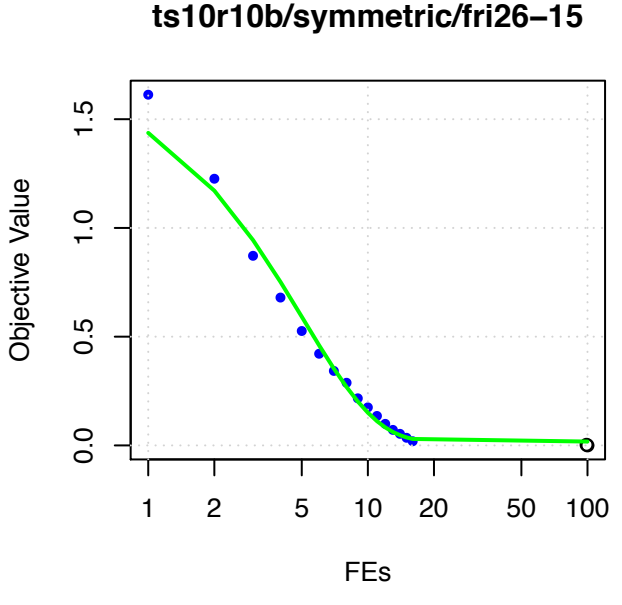
ts10r10b/symmetric/fri26−15
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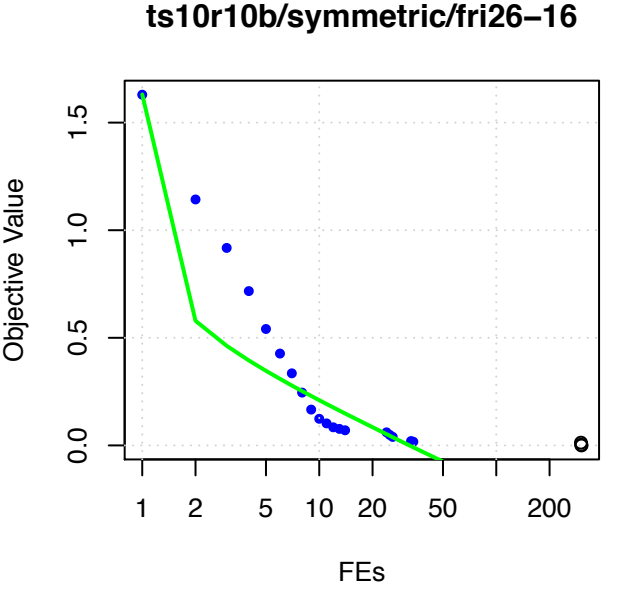
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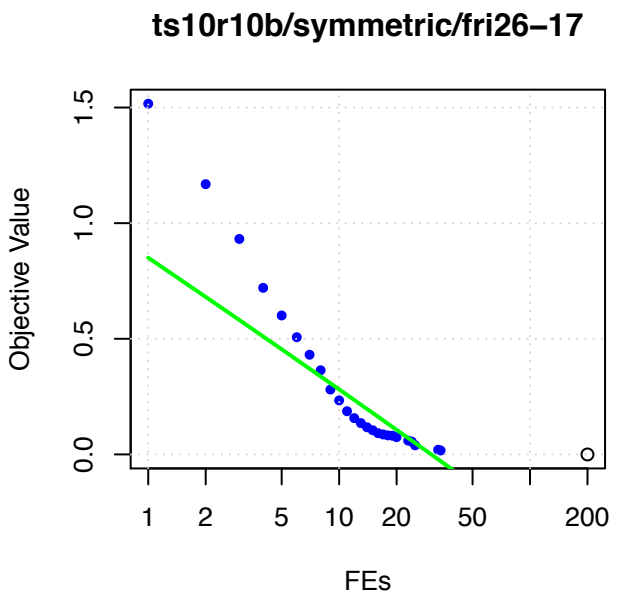
ts10r10b/symmetric/fri26−17
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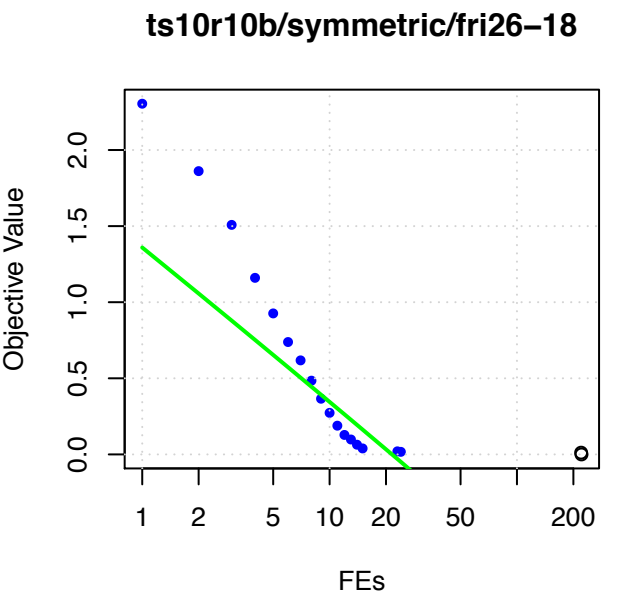
FEs


ts10r10b/symmetric/fri26−18
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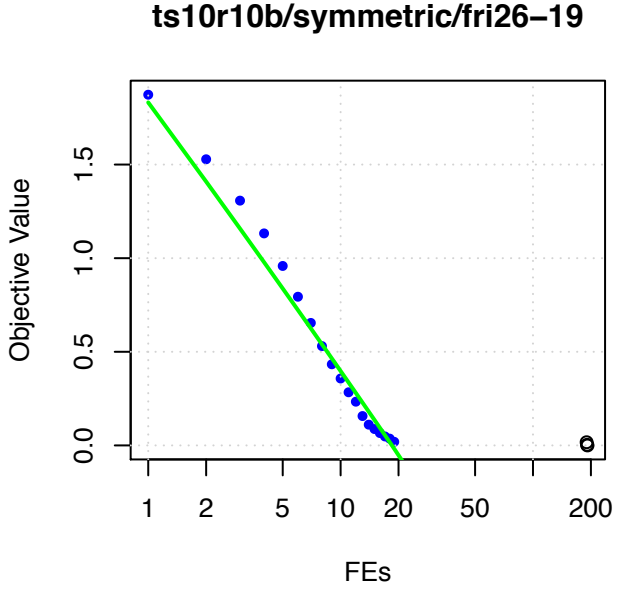
FEs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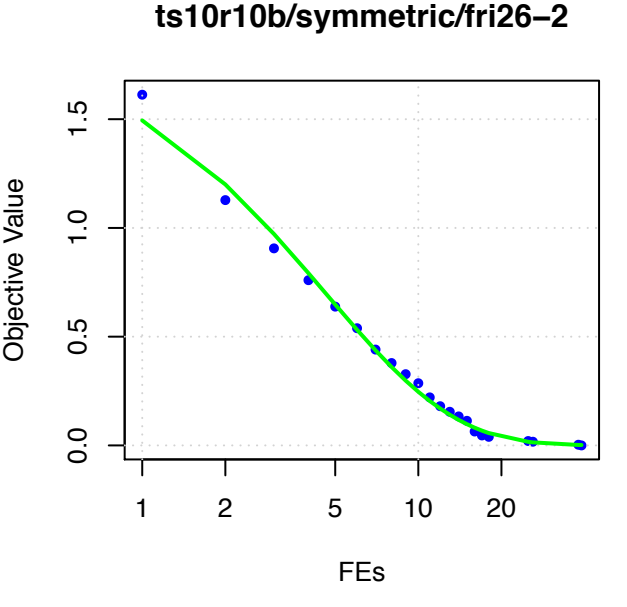
FEs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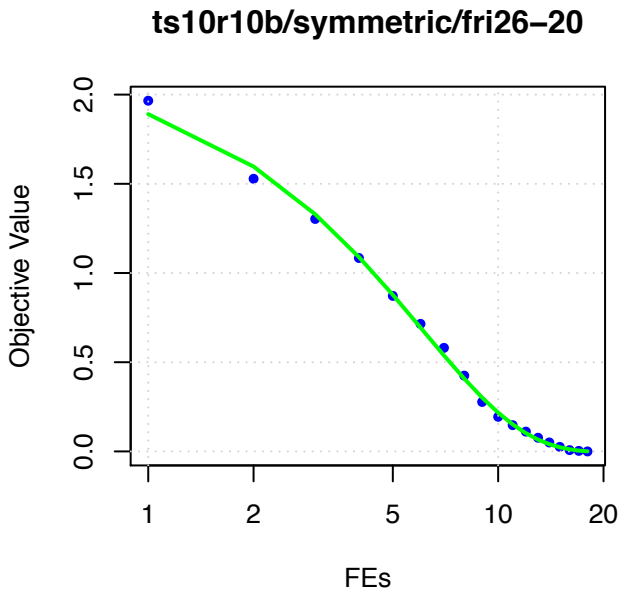
FEs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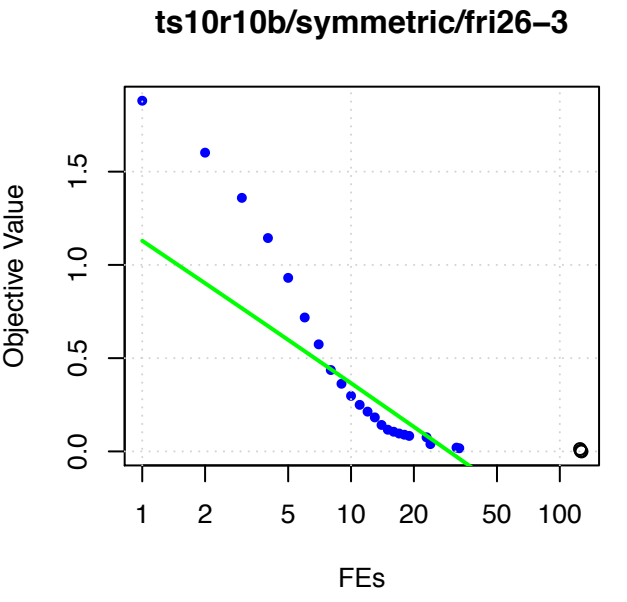
FEs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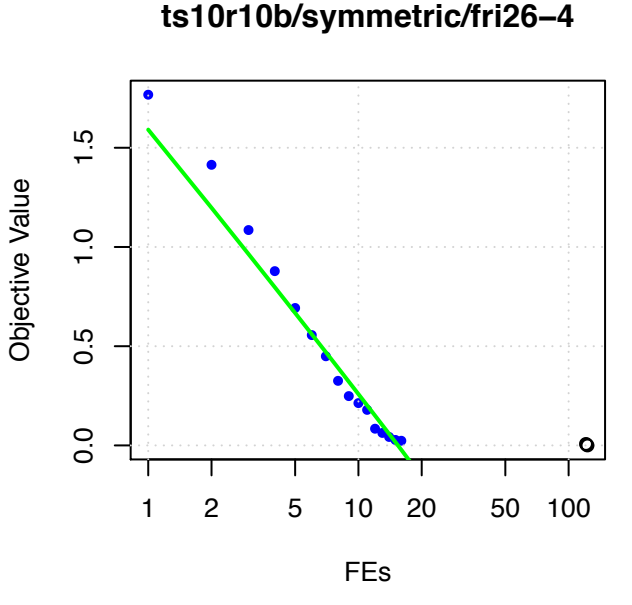
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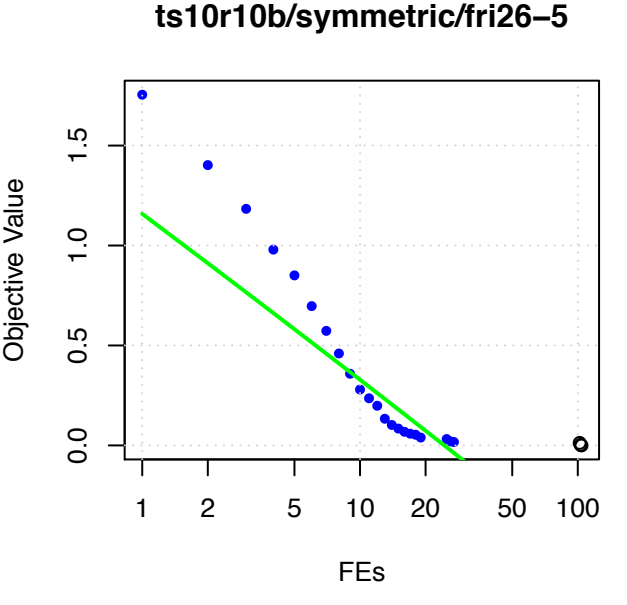
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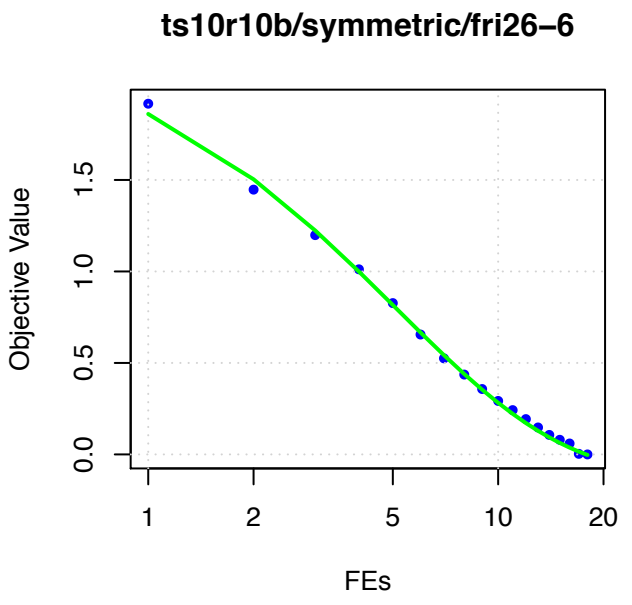
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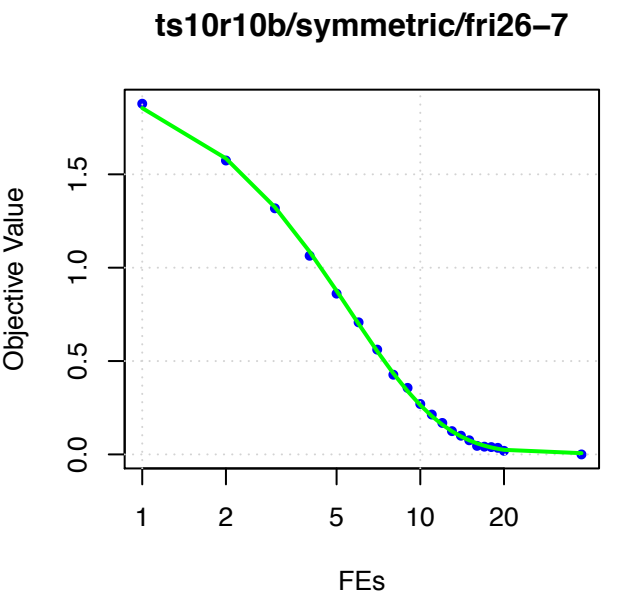
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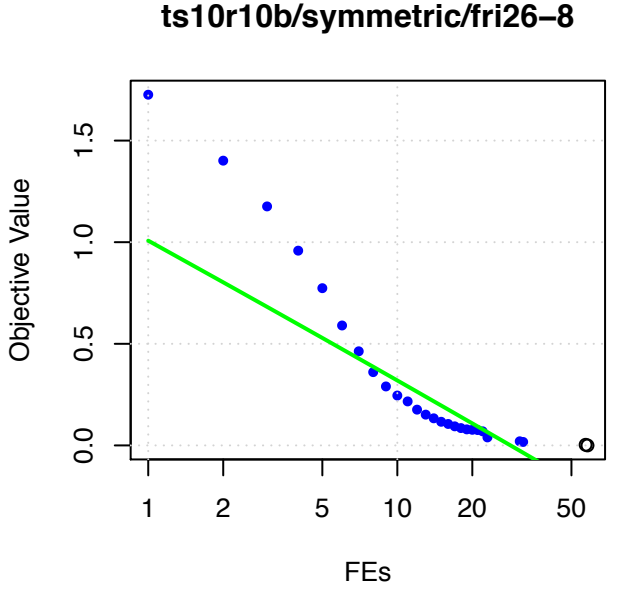
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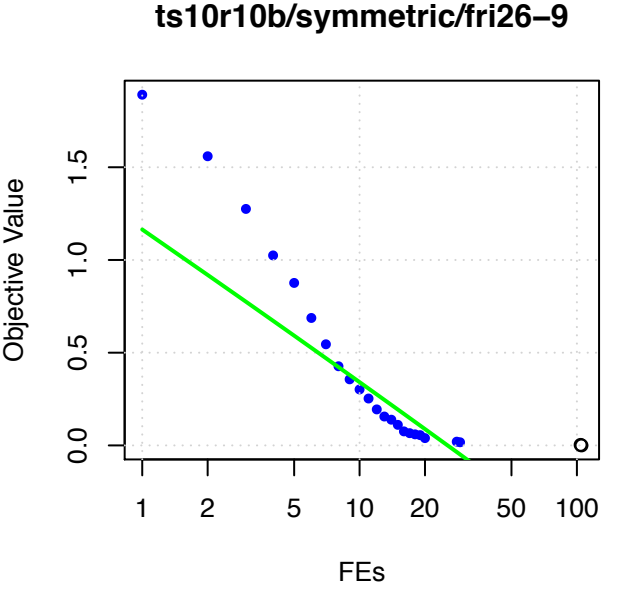
FEs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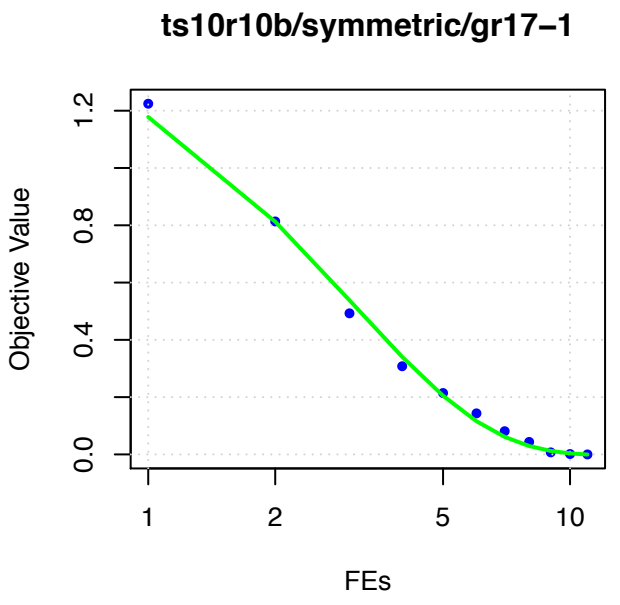
FEs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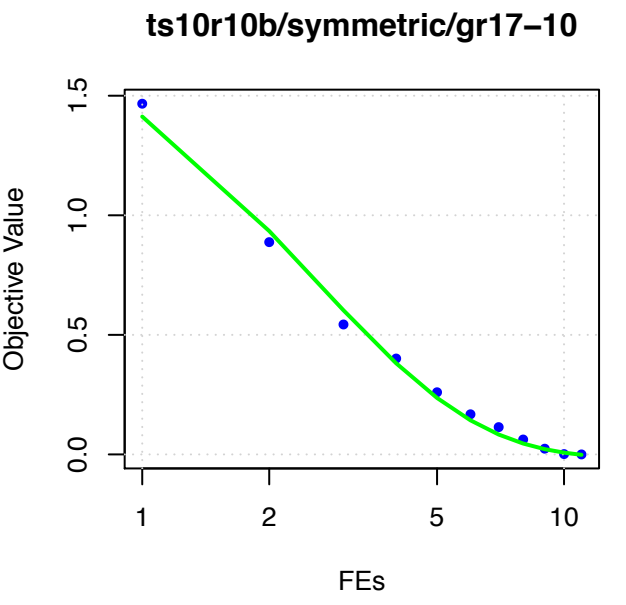
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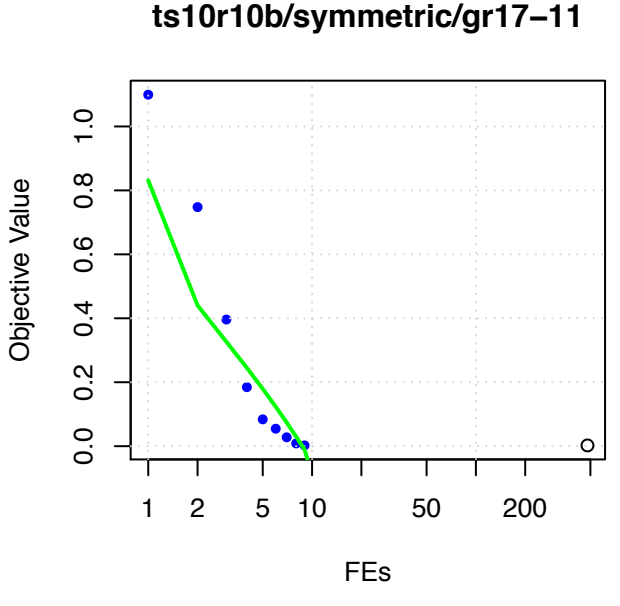
ts10r10b/symmetric/gr17−11
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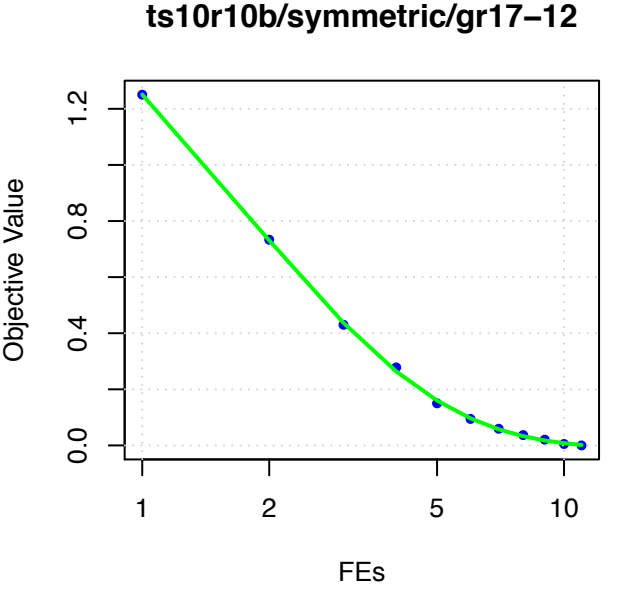
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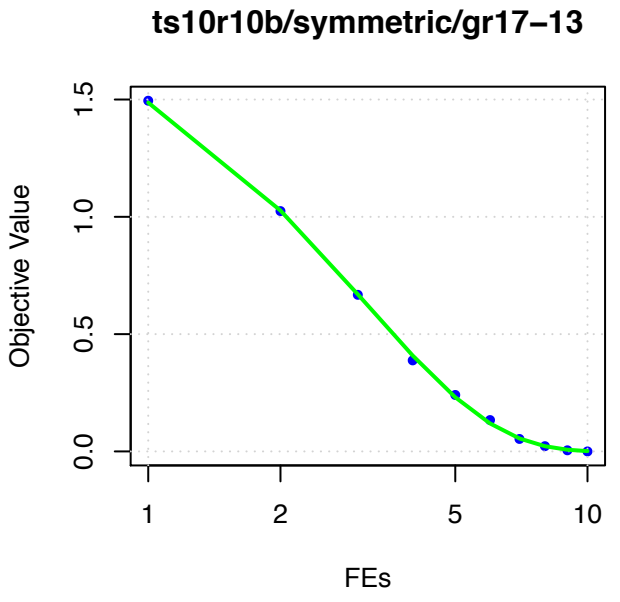
FEs


ts10r10b/symmetric/gr17−13
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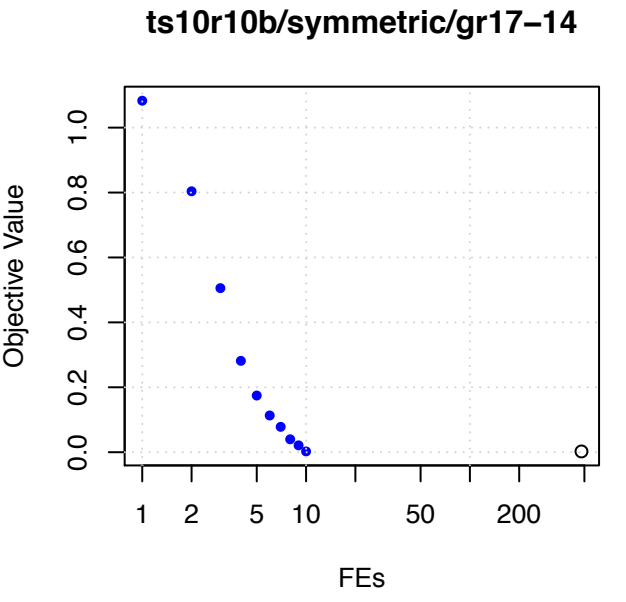
ts10r10b/symmetric/gr17−14
Objective Value
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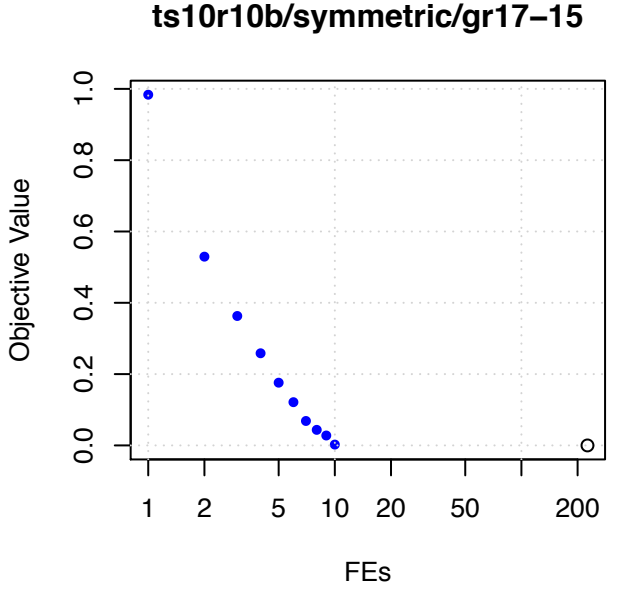
FEs


ts10r10b/symmetric/gr17−15
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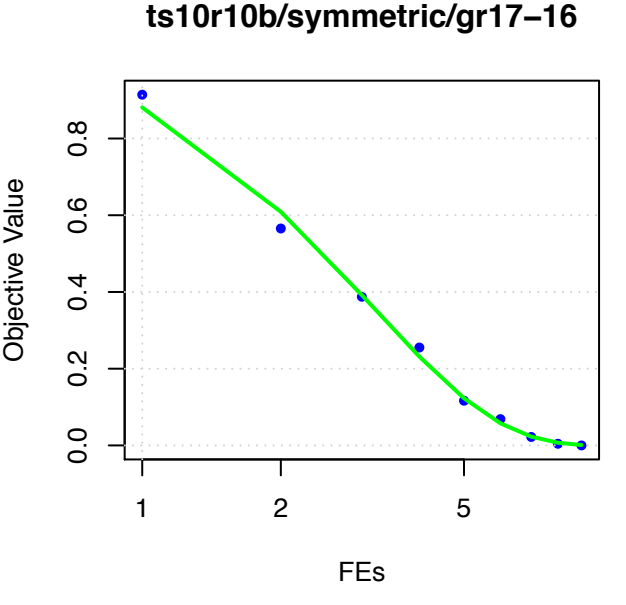
FEs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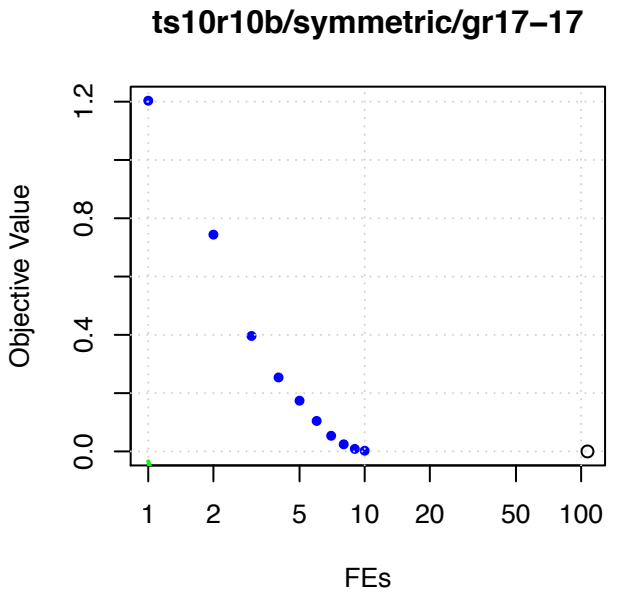
FEs


ts10r10b/symmetric/gr17−17
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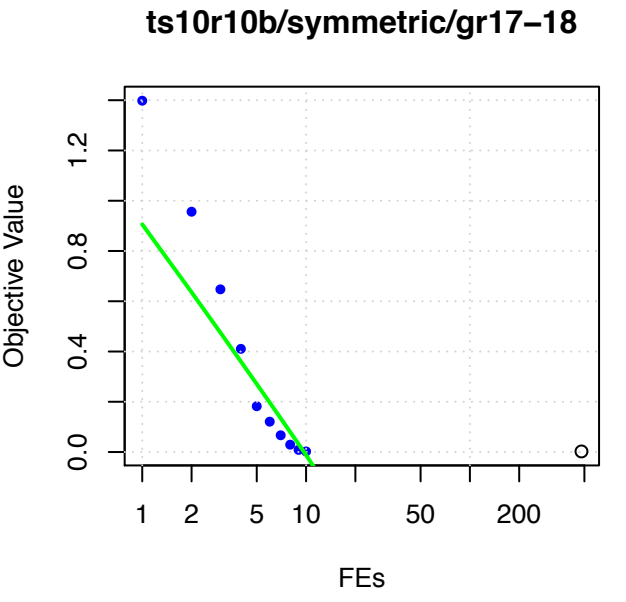
FEs


ts10r10b/symmetric/gr17−18
Objective Value
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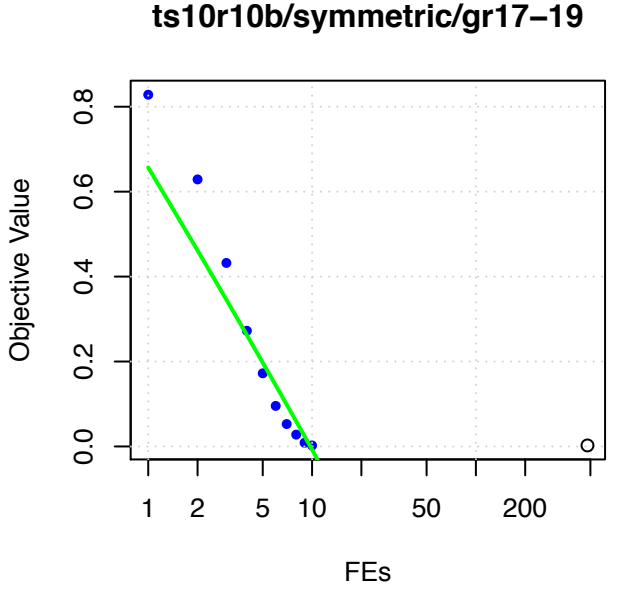
200
FEs


ts10r10b/symmetric/gr17−19
Objective Value
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0.2
0.4
0.6
0.8
1
2
5
10
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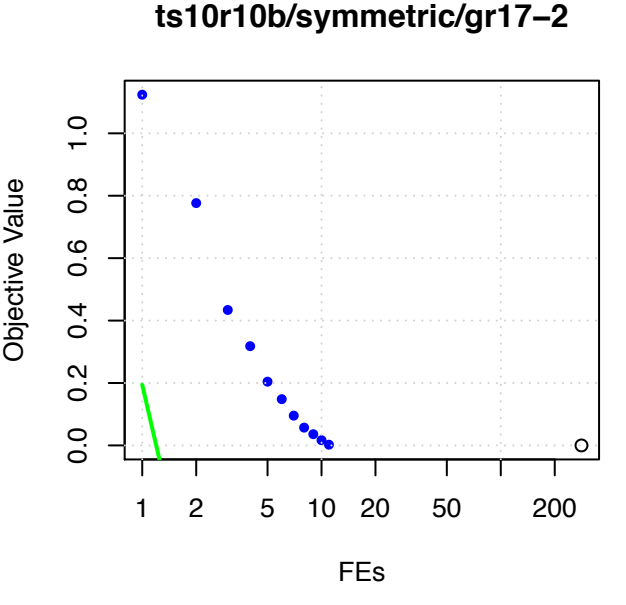
200
FEs


ts10r10b/symmetric/gr17−2
Objective Value
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0.4
0.6
0.8
1.0
1
2
5
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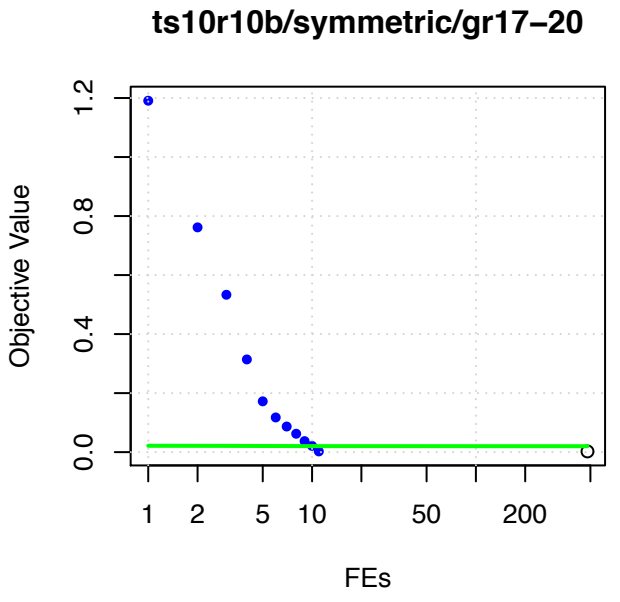
20
50
200
FEs


ts10r10b/symmetric/gr17−20
Objective Value
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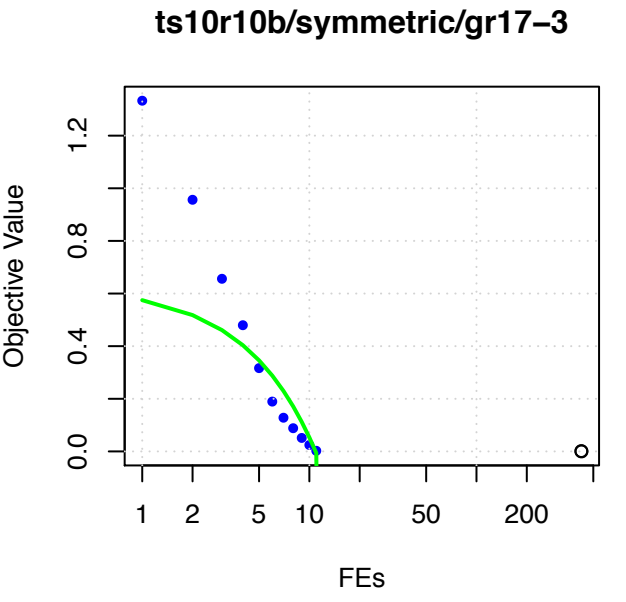
0.4
0.8
1.2
1
2
5
10
50
200
FEs


ts10r10b/symmetric/gr17−3
Objective Value
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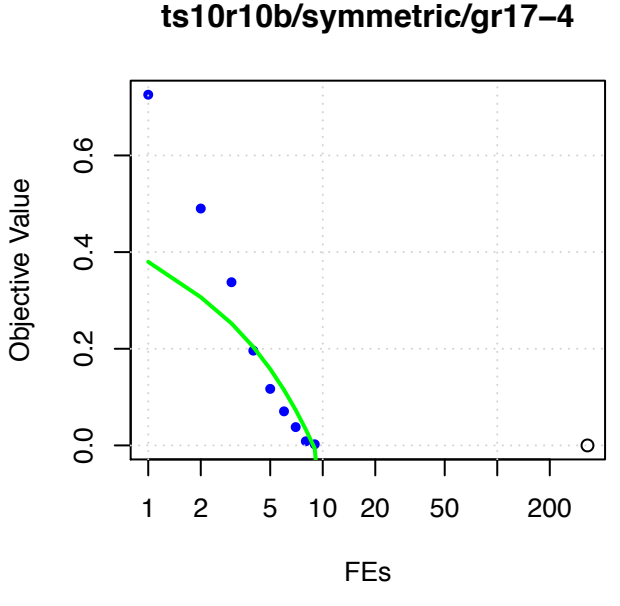
0.4
0.8
1.2
1
2
5
10
50
200
FEs


ts10r10b/symmetric/gr17−4
Objective Value
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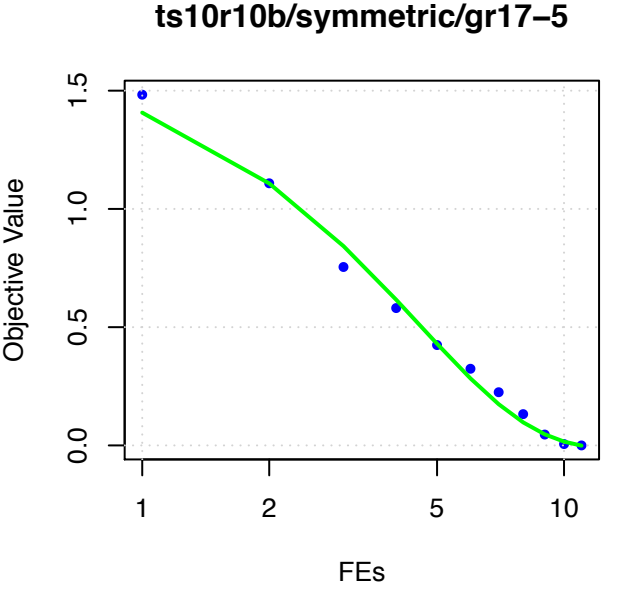
0.2
0.4
0.6
1
2
5
10
20
50
200
FEs


ts10r10b/symmetric/gr17−5
Objective Value
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0.5
1.0
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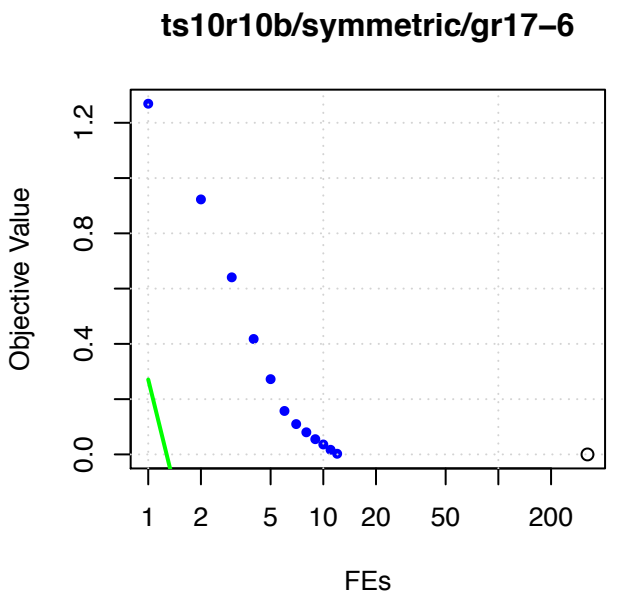
1
2
5
10
FEs


ts10r10b/symmetric/gr17−6
Objective Value
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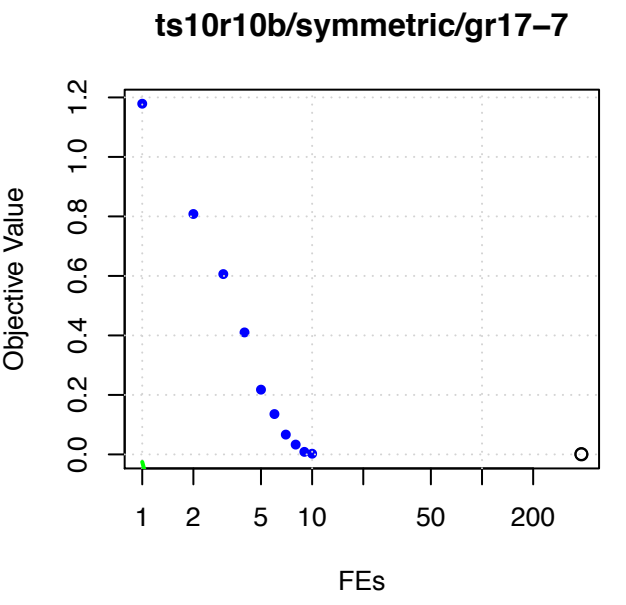
0.8
1.2
1
2
5
10
20
50
200
FEs


ts10r10b/symmetric/gr17−7
Objective Value
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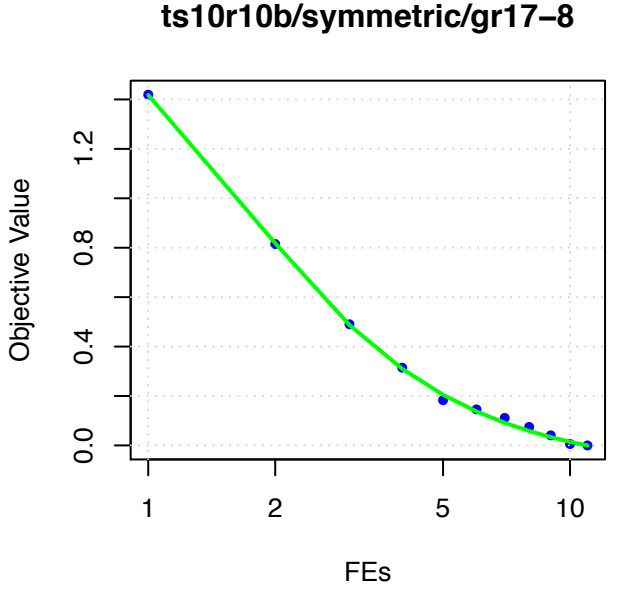
0.2
0.4
0.6
0.8
1.0
1.2
1
2
5
10
50
200
FEs


ts10r10b/symmetric/gr17−8
Objective Value
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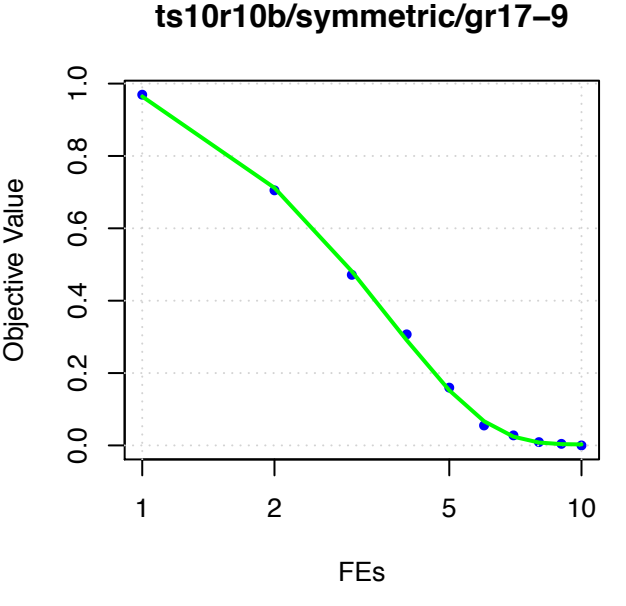
0.4
0.8
1.2
1
2
5
10
FEs


ts10r10b/symmetric/gr17−9
Objective Value
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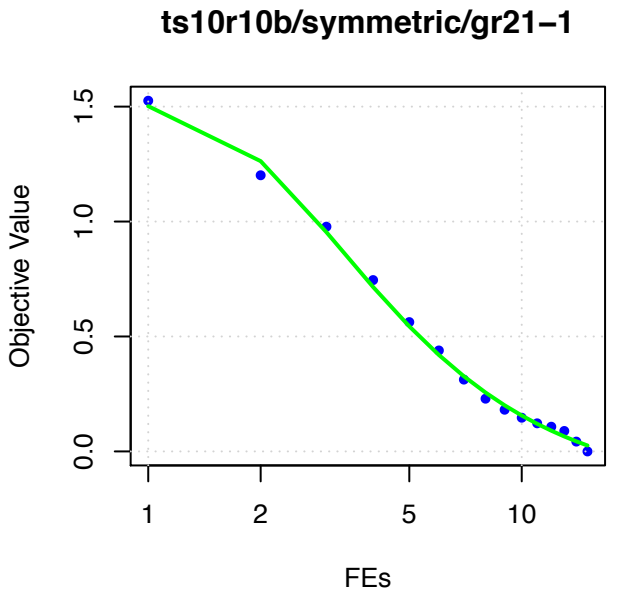
0.2
0.4
0.6
0.8
1.0
1
2
5
10
FEs


ts10r10b/symmetric/gr21−1
Objective Value
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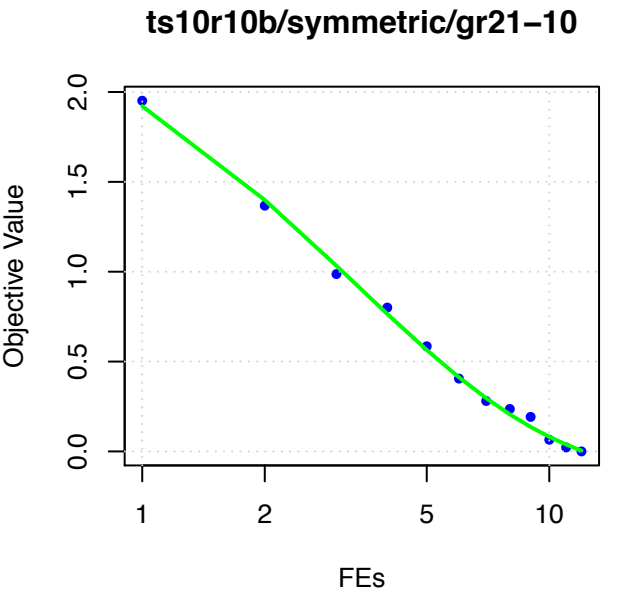
0.5
1.0
1.5
1
2
5
10
FEs


ts10r10b/symmetric/gr21−10
Objective Value
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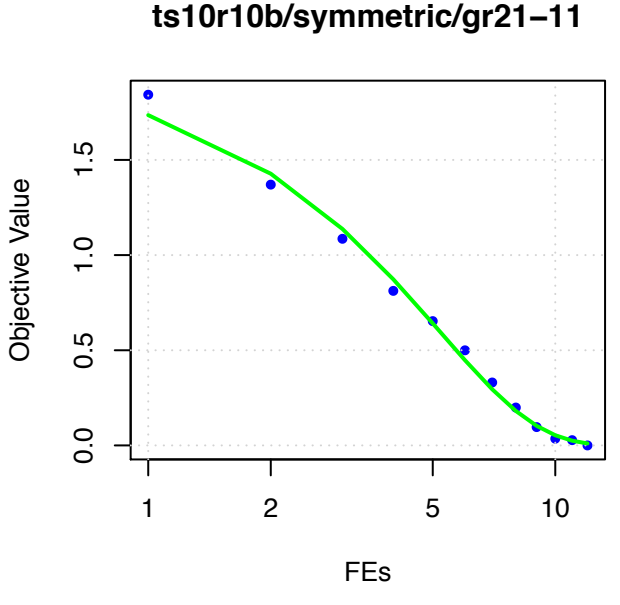
1.0
1.5
2.0
1
2
5
10
FEs


ts10r10b/symmetric/gr21−11
Objective Value
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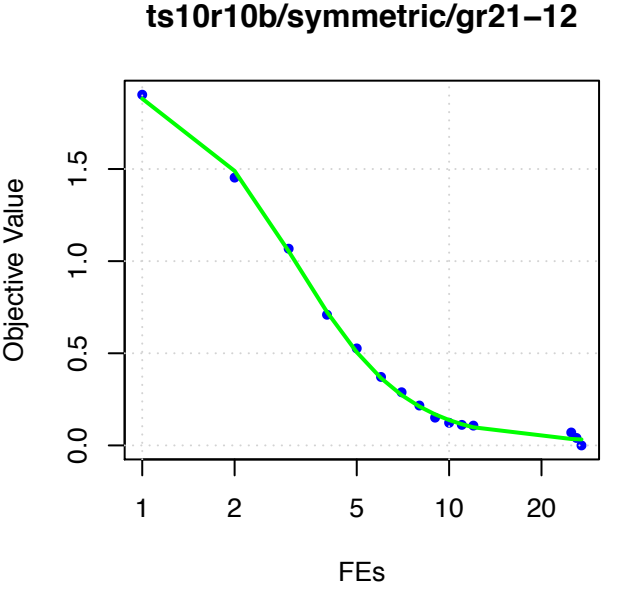
0.5
1.0
1.5
1
2
5
10
FEs


ts10r10b/symmetric/gr21−12
Objective Value
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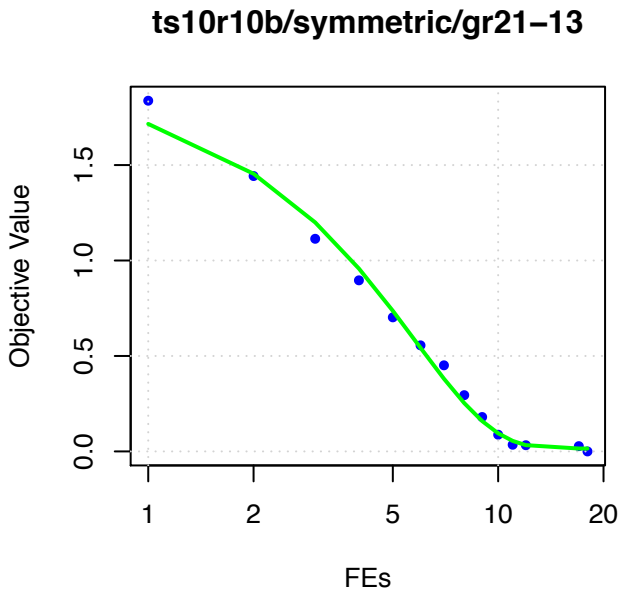
1.0
1.5
1
2
5
10
20
FEs


ts10r10b/symmetric/gr21−13
Objective Value
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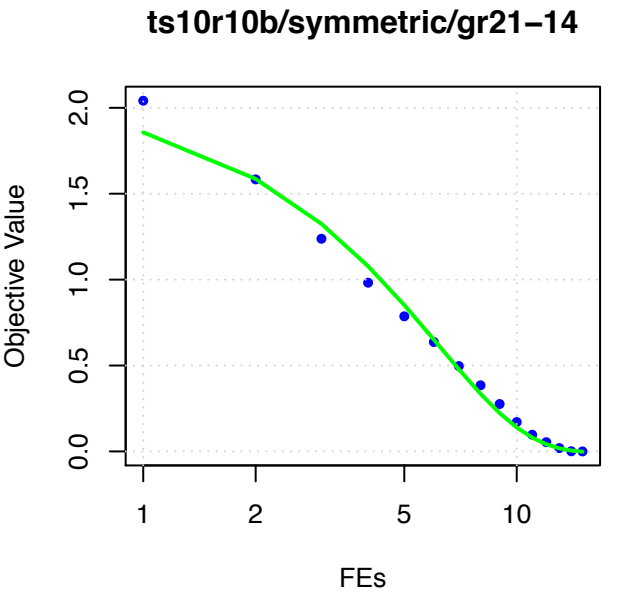
1.0
1.5
1
2
5
10
20
FEs


ts10r10b/symmetric/gr21−14
Objective Value
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1.0
1.5
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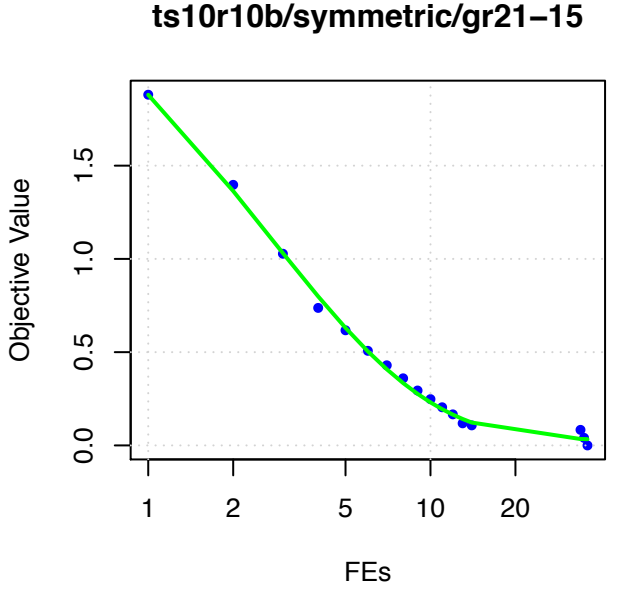
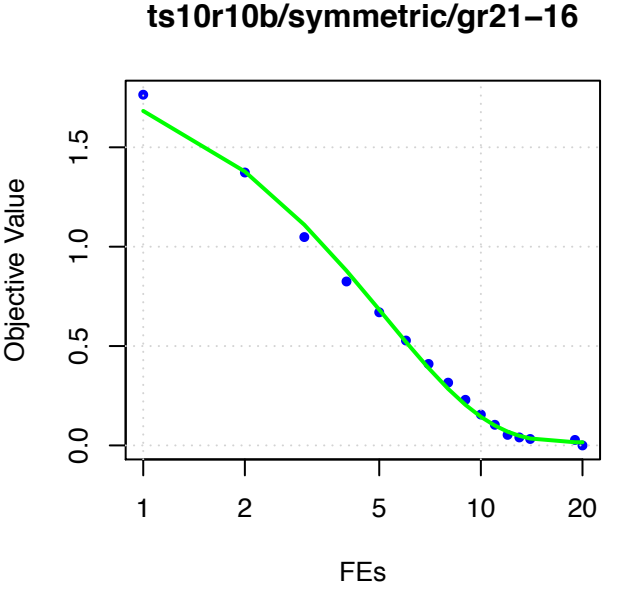
1
2
5
10
FEs


ts10r10b/symmetric/gr21−15
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
FEs


ts10r10b/symmetric/gr21−16
Objective Value
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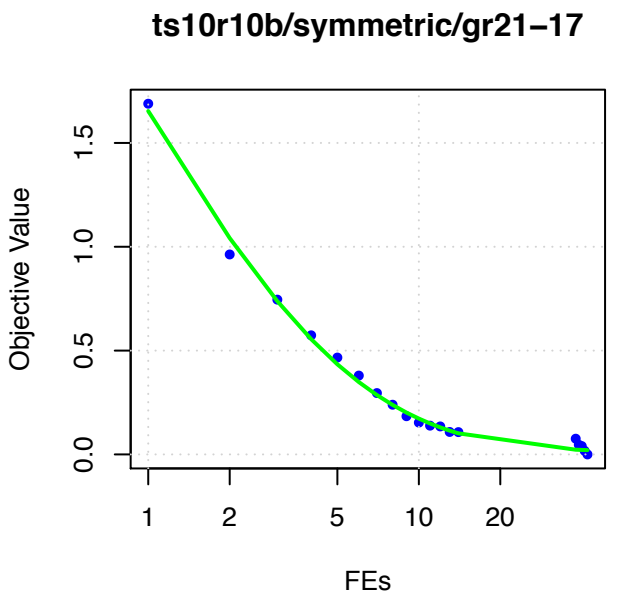
0.5
1.0
1.5
1
2
5
10
20
FEs


ts10r10b/symmetric/gr21−17
Objective Value
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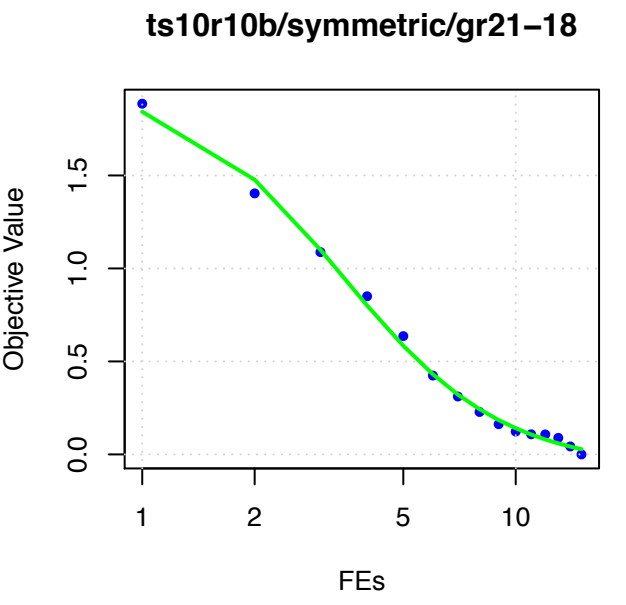
1.0
1.5
1
2
5
10
20
FEs


ts10r10b/symmetric/gr21−18
Objective Value
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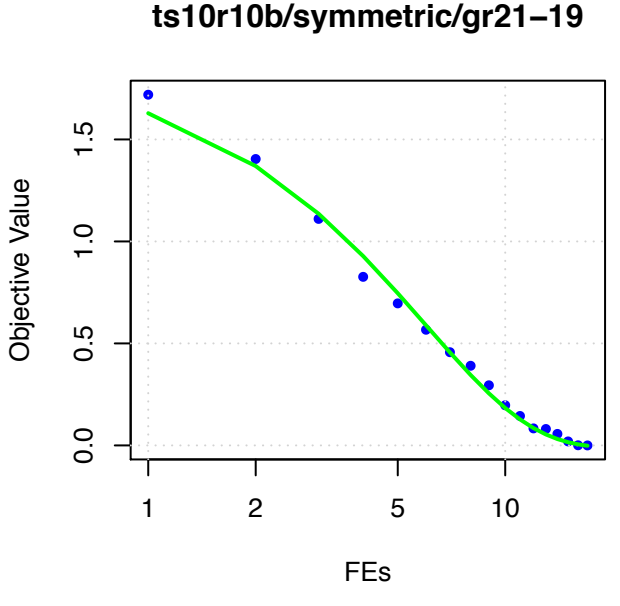
0.5
1.0
1.5
1
2
5
10
FEs


ts10r10b/symmetric/gr21−19
Objective Value
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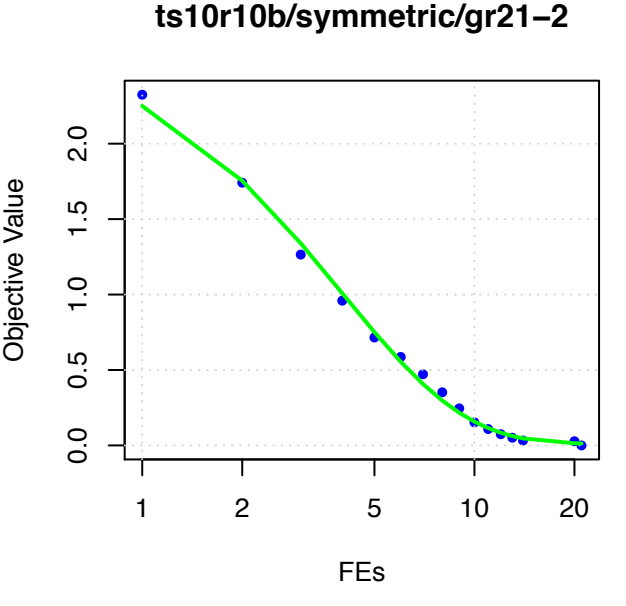
0.5
1.0
1.5
1
2
5
10
FEs


ts10r10b/symmetric/gr21−2
Objective Value
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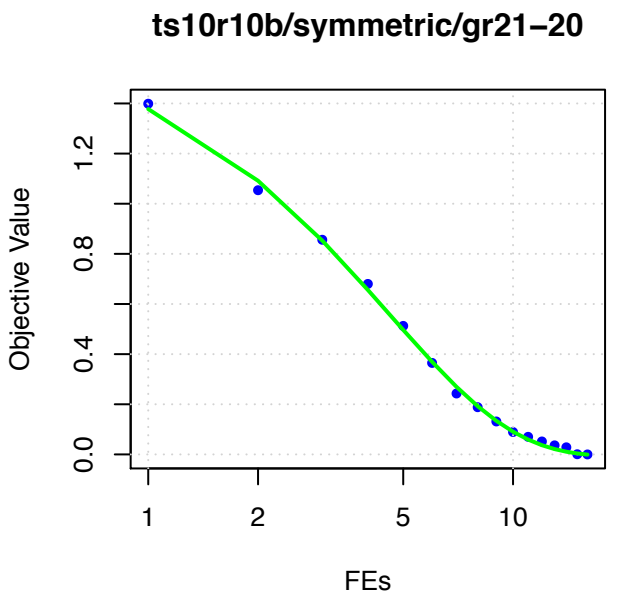
1.0
1.5
2.0
1
2
5
10
20
FEs


ts10r10b/symmetric/gr21−20
Objective Value
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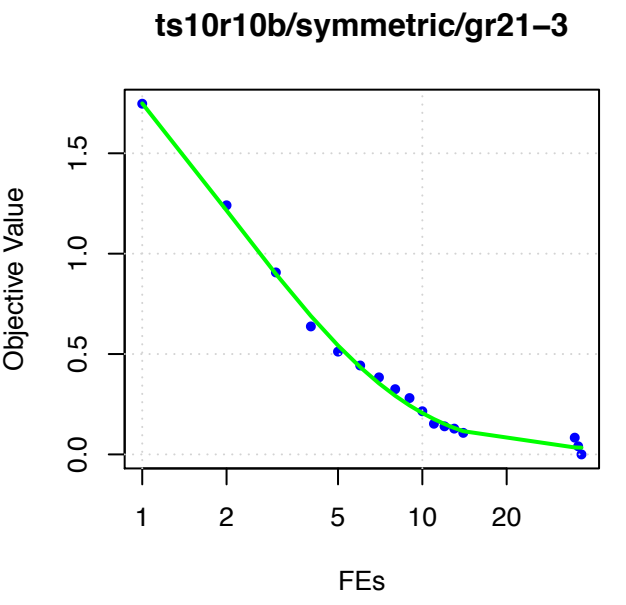
0.4
0.8
1.2
1
2
5
10
FEs


ts10r10b/symmetric/gr21−3
Objective Value
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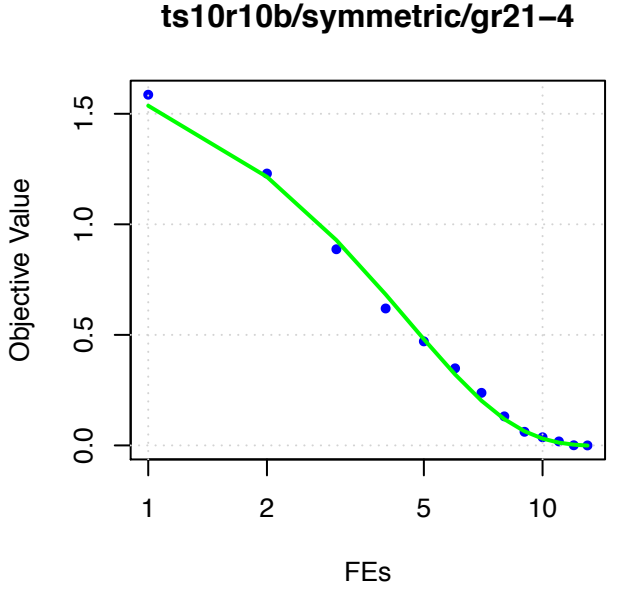
0.5
1.0
1.5
1
2
5
10
20
FEs


ts10r10b/symmetric/gr21−4
Objective Value
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1.0
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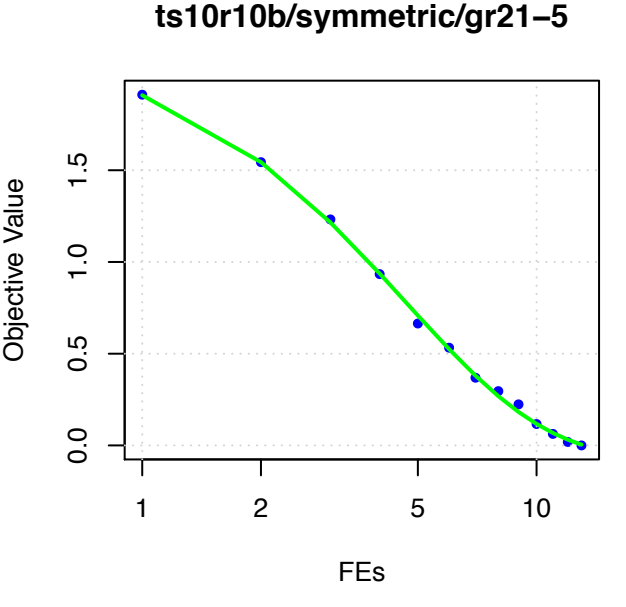
1
2
5
10
FEs


ts10r10b/symmetric/gr21−5
Objective Value
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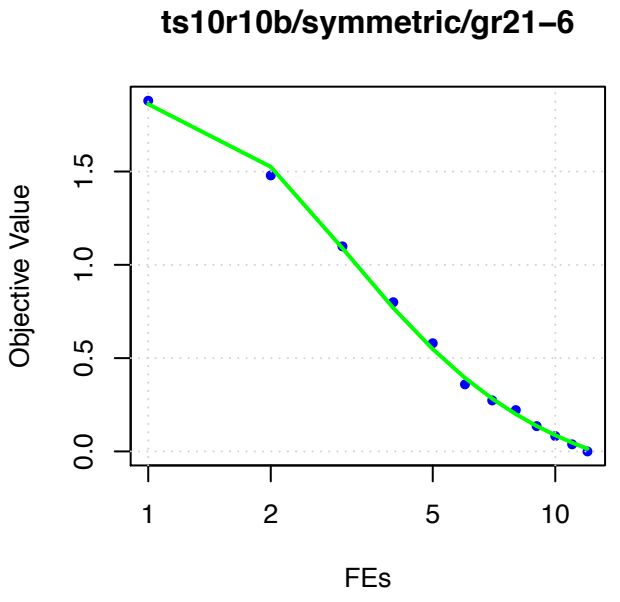
0.5
1.0
1.5
1
2
5
10
FEs


ts10r10b/symmetric/gr21−6
Objective Value
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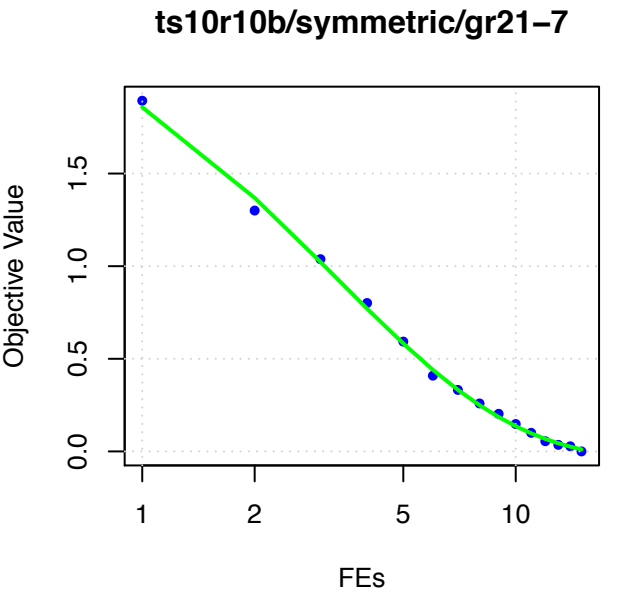
1
2
5
10
FEs


ts10r10b/symmetric/gr21−7
Objective Value
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1.5
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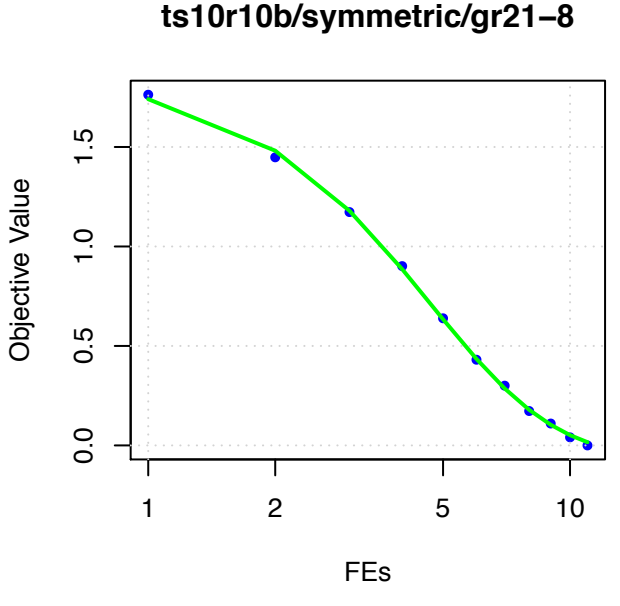
2
5
10
FEs


ts10r10b/symmetric/gr21−8
Objective Value
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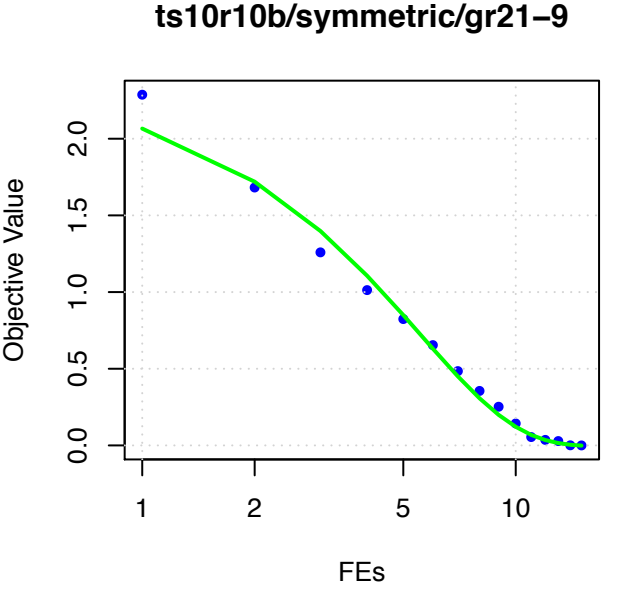
1.0
1.5
1
2
5
10
FEs


ts10r10b/symmetric/gr21−9
Objective Value
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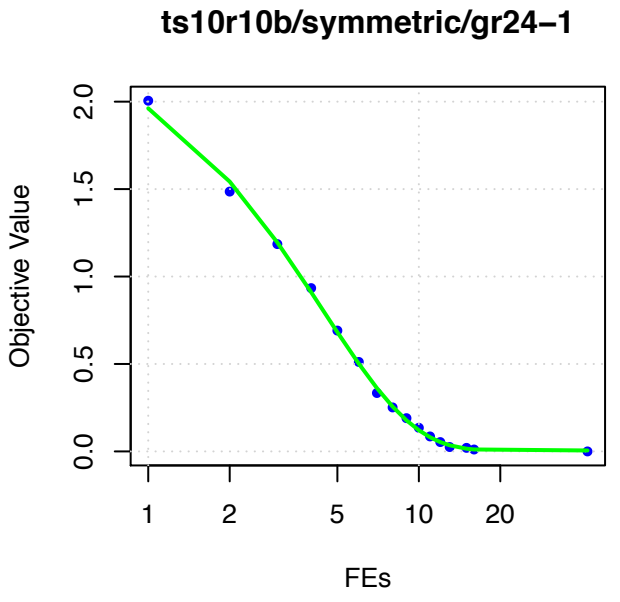
1.0
1.5
2.0
1
2
5
10
FEs


ts10r10b/symmetric/gr24−1
Objective Value
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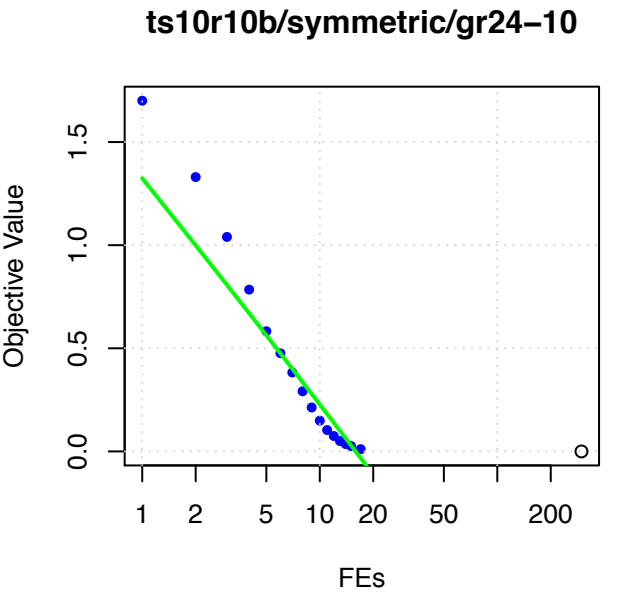
1.0
1.5
2.0
1
2
5
10
20
FEs


ts10r10b/symmetric/gr24−10
Objective Value
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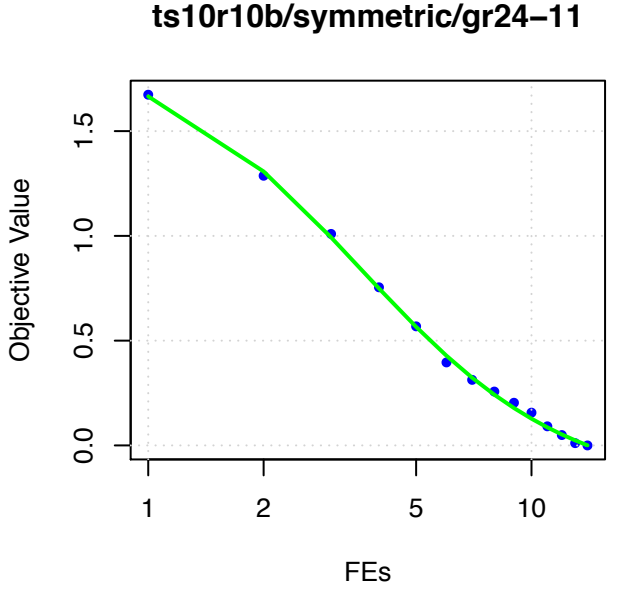
1.0
1.5
1
2
5
10
20
50
200
FEs


ts10r10b/symmetric/gr24−11
Objective Value
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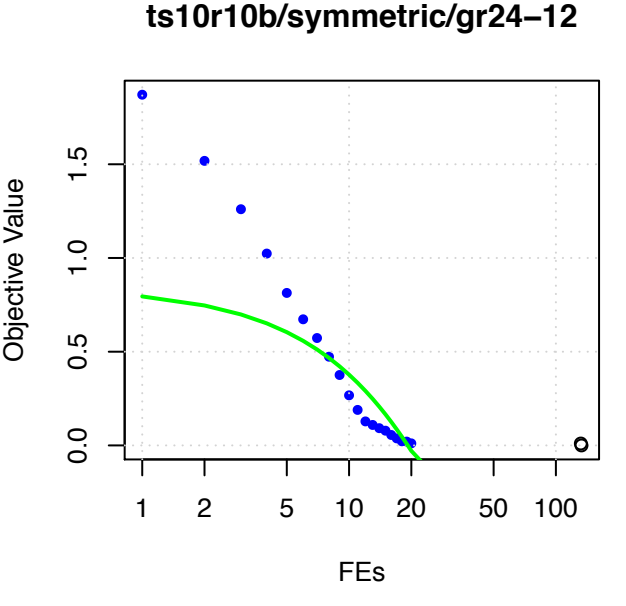
1.5
1
2
5
10
FEs


ts10r10b/symmetric/gr24−12
Objective Value
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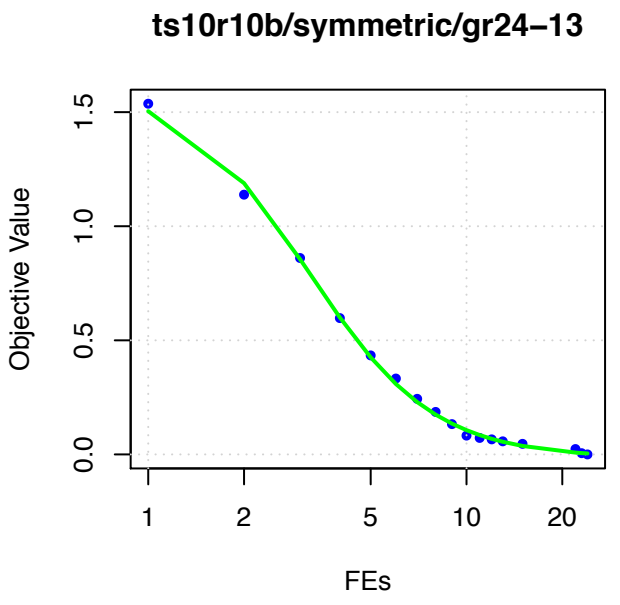
1.0
1.5
1
2
5
10
20
50
100
FEs


ts10r10b/symmetric/gr24−13
Objective Value
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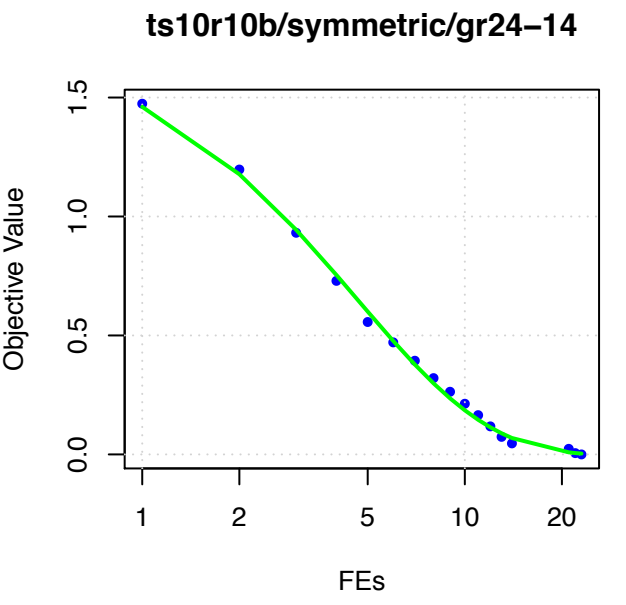
1.0
1.5
1
2
5
10
20
FEs


ts10r10b/symmetric/gr24−14
Objective Value
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1.5
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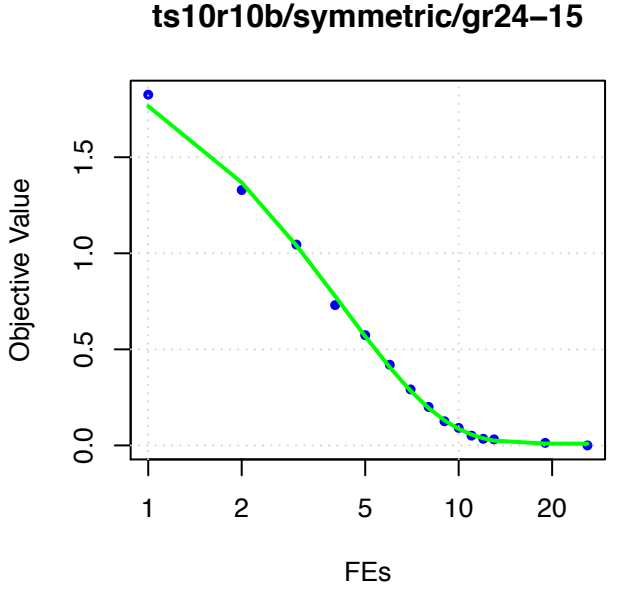
2
5
10
20
FEs


ts10r10b/symmetric/gr24−15
Objective Value
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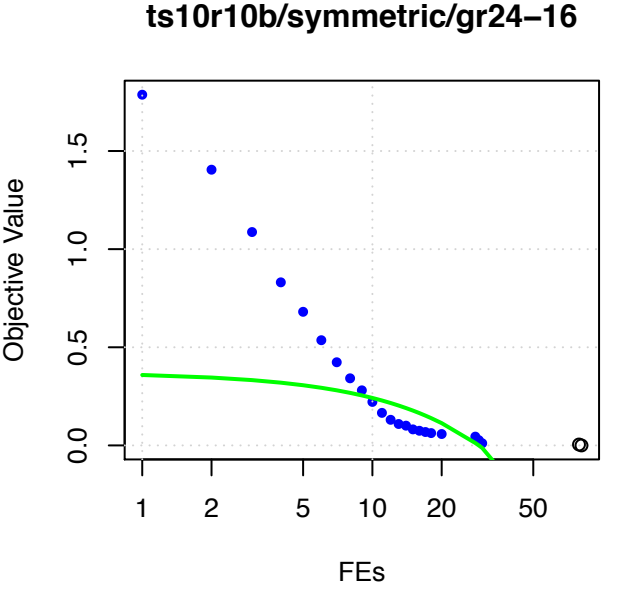
1.0
1.5
1
2
5
10
20
FEs


ts10r10b/symmetric/gr24−16
Objective Value
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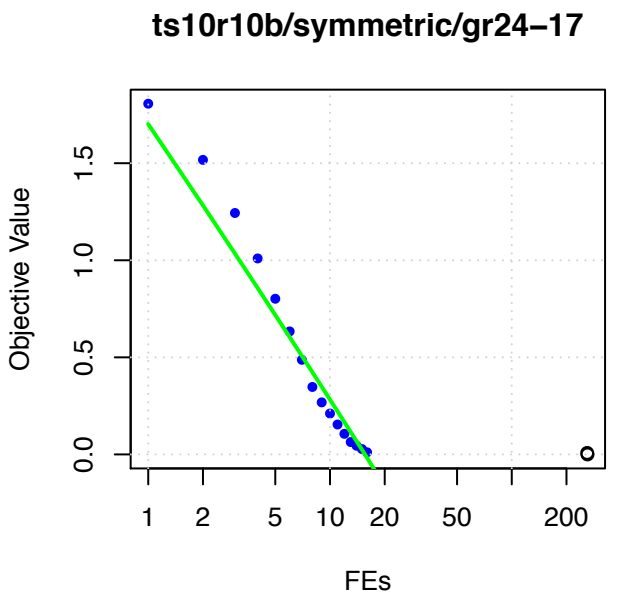
1.0
1.5
1
2
5
10
20
50
FEs


ts10r10b/symmetric/gr24−17
Objective Value
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1.0
1.5
1
2
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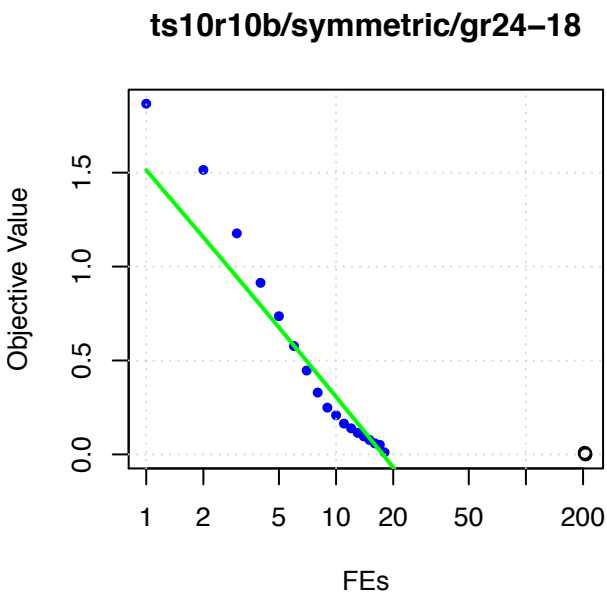
10
20
50
200
FEs


ts10r10b/symmetric/gr24−18
Objective Value
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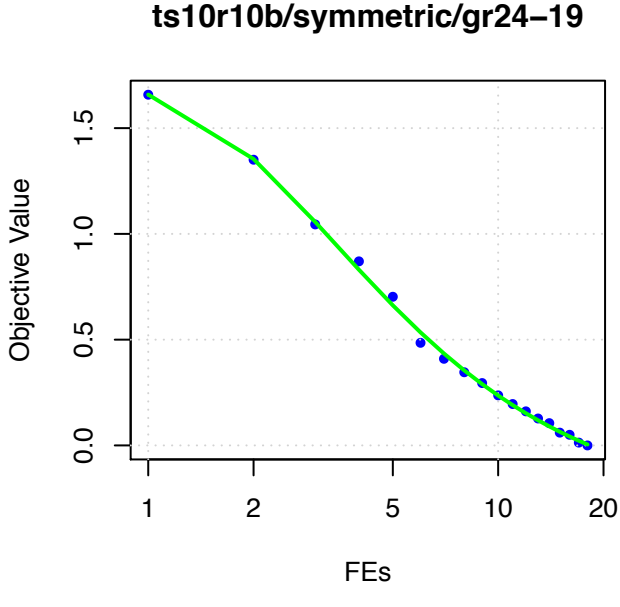
1.0
1.5
1
2
5
10
20
50
200
FEs


ts10r10b/symmetric/gr24−19
Objective Value
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0.5
1.0
1.5
1
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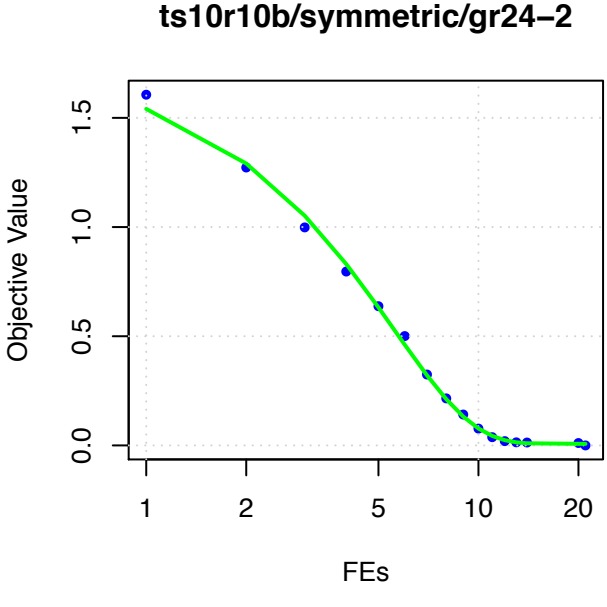
5
10
20
FEs


ts10r10b/symmetric/gr24−2
Objective Value
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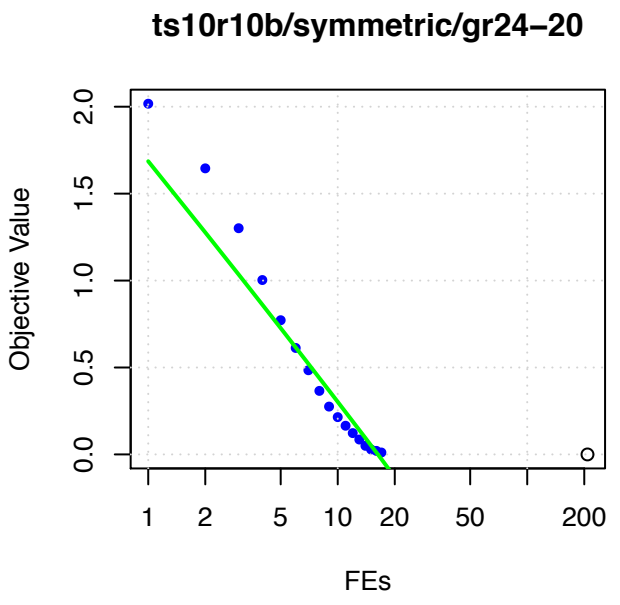
0.5
1.0
1.5
1
2
5
10
20
FEs


ts10r10b/symmetric/gr24−20
Objective Value
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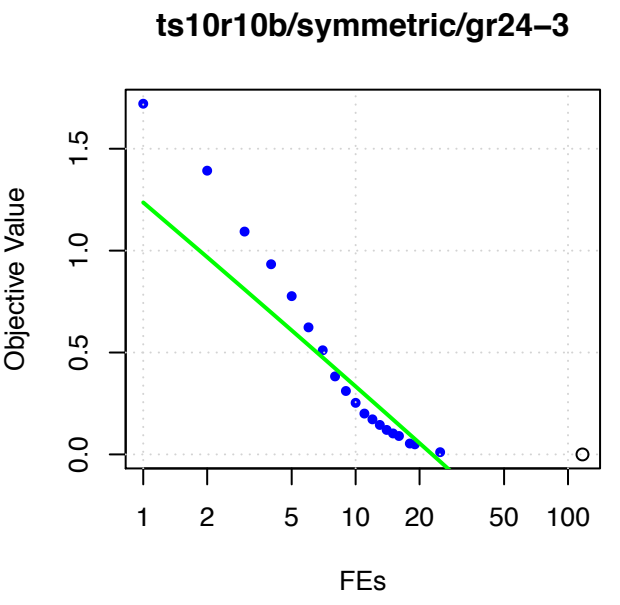
1.0
1.5
2.0
1
2
5
10
20
50
200
FEs


ts10r10b/symmetric/gr24−3
Objective Value
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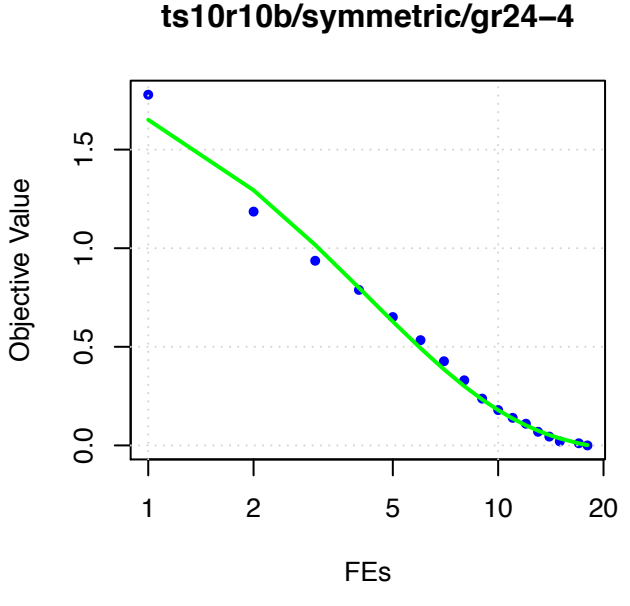
0.5
1.0
1.5
1
2
5
10
20
50
100
FEs


ts10r10b/symmetric/gr24−4
Objective Value
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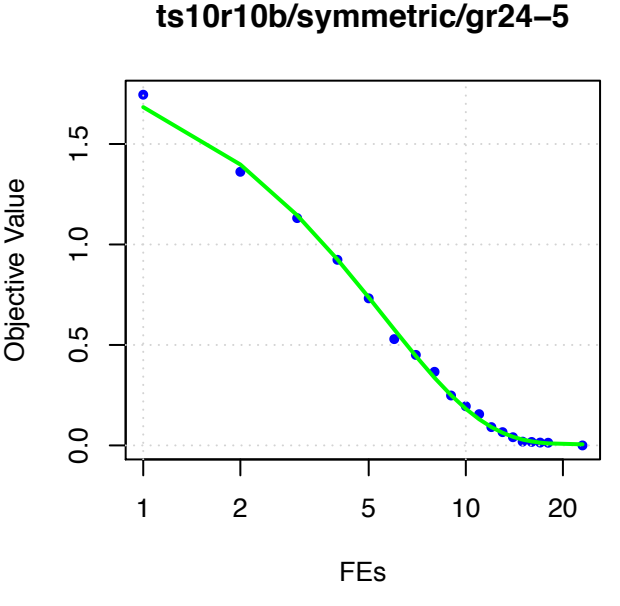
0.5
1.0
1.5
1
2
5
10
20
FEs


ts10r10b/symmetric/gr24−5
Objective Value
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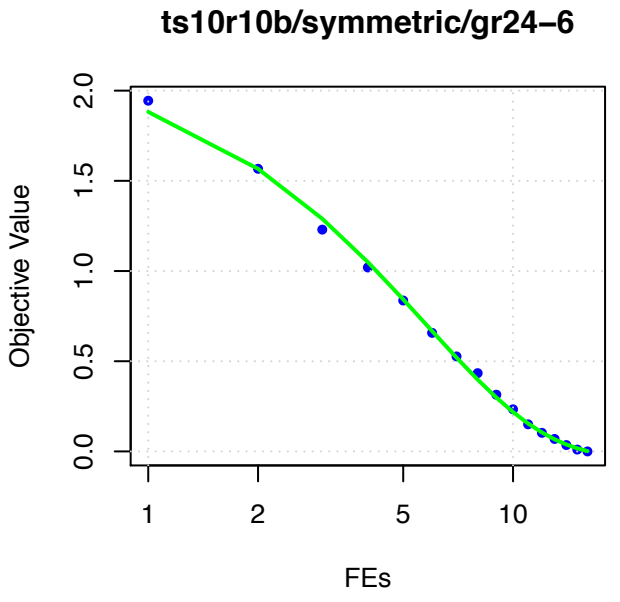
0.5
1.0
1.5
1
2
5
10
20
FEs


ts10r10b/symmetric/gr24−6
Objective Value
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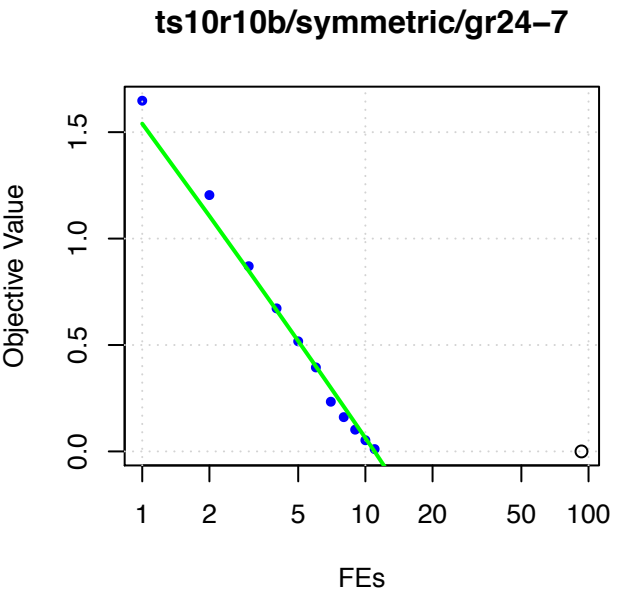
0.5
1.0
1.5
2.0
1
2
5
10
FEs


ts10r10b/symmetric/gr24−7
Objective Value
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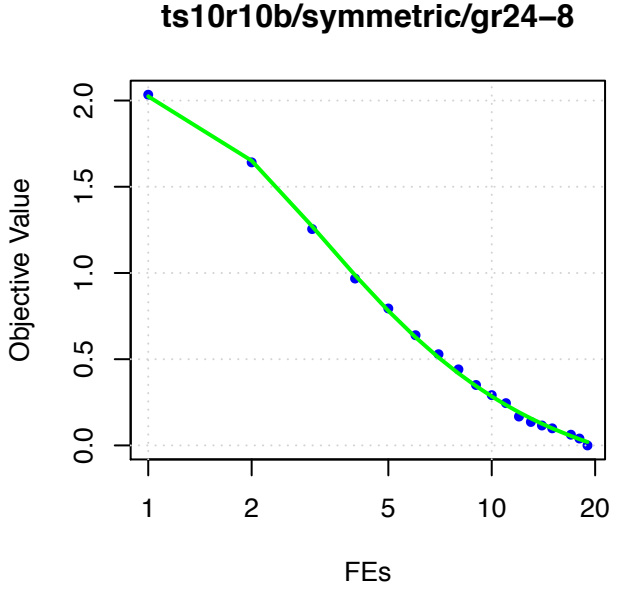
0.5
1.0
1.5
1
2
5
10
20
50
100
FEs


ts10r10b/symmetric/gr24−8
Objective Value
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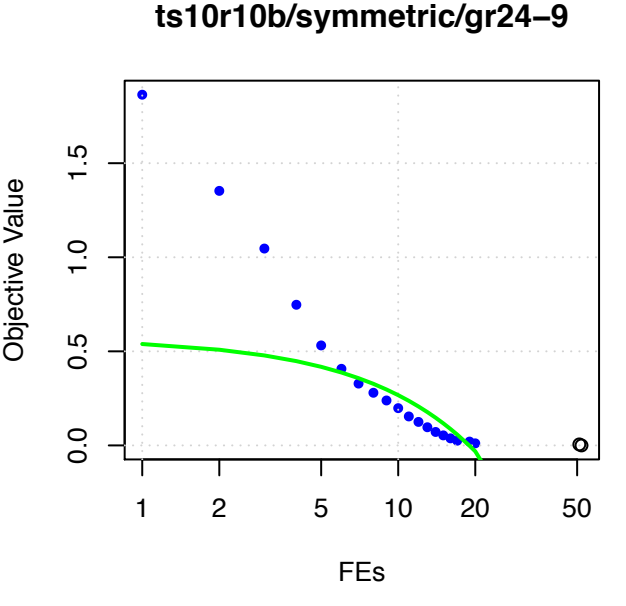
0.5
1.0
1.5
2.0
1
2
5
10
20
FEs


ts10r10b/symmetric/gr24−9
Objective Value
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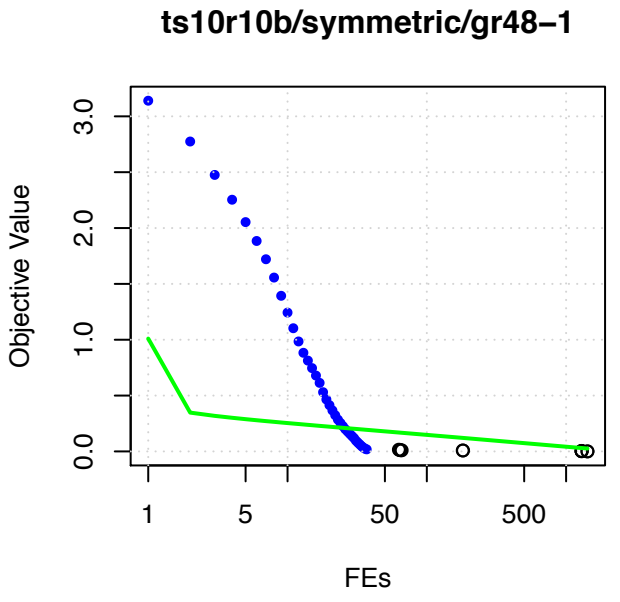
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts10r10b/symmetric/gr48−1
Objective Value
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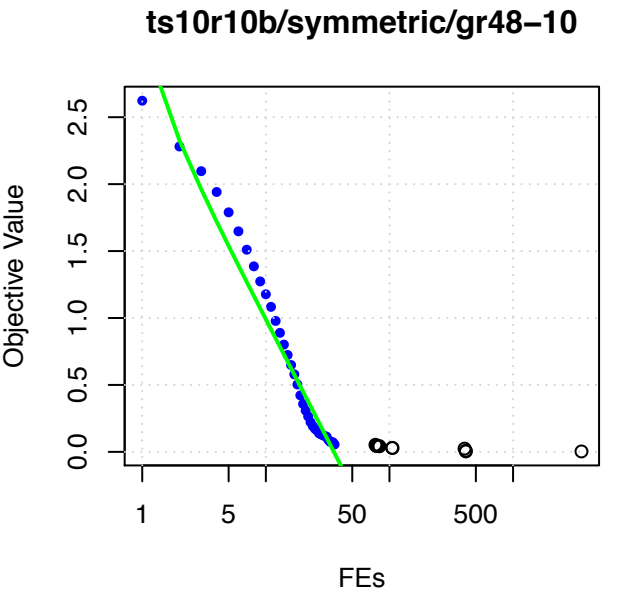
1.0
2.0
3.0
1
5
50
500
FEs


ts10r10b/symmetric/gr48−10
Objective Value
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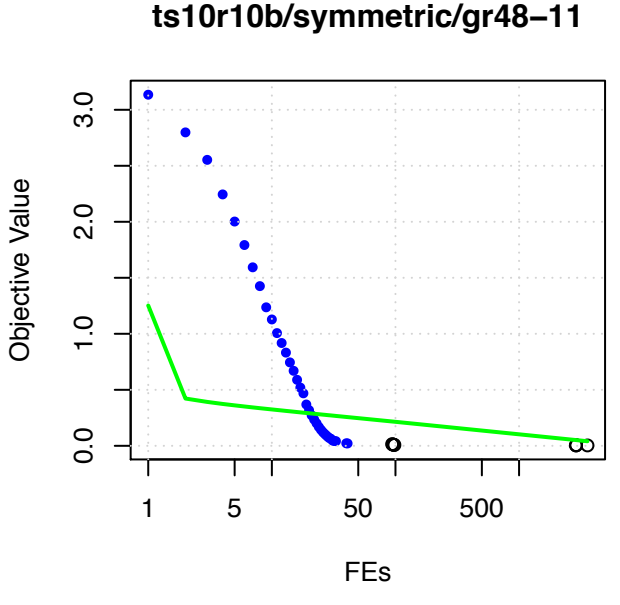
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts10r10b/symmetric/gr48−11
Objective Value
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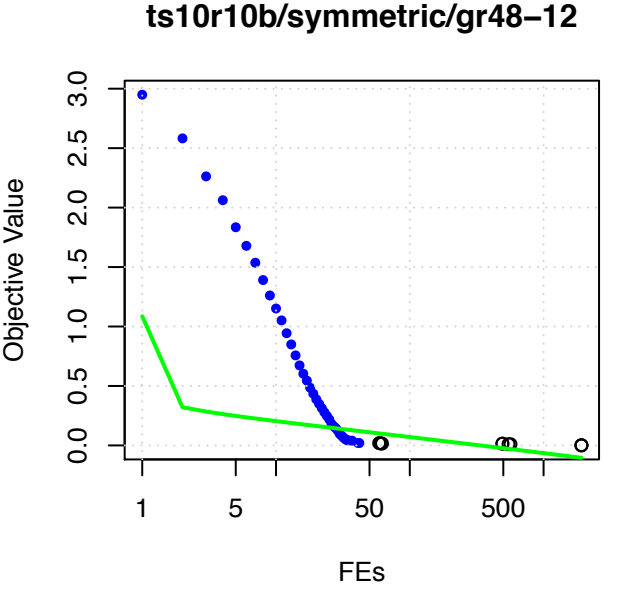
1.0
2.0
3.0
1
5
50
500
FEs


ts10r10b/symmetric/gr48−12
Objective Value
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1.0
1.5
2.0
2.5
3.0
1
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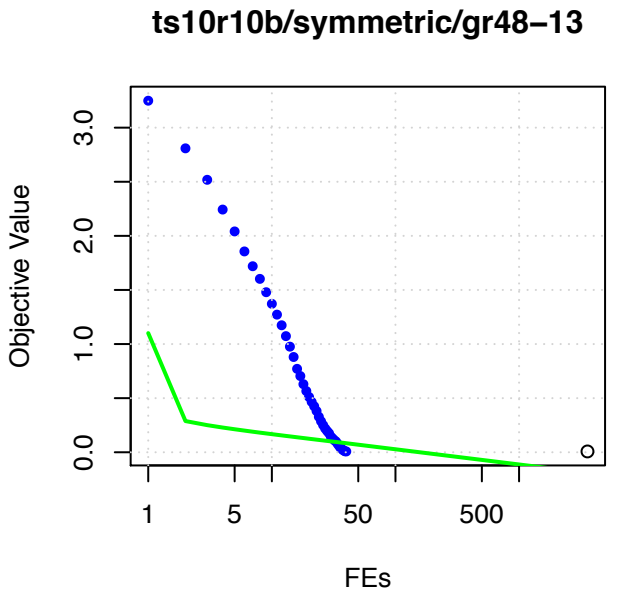
50
500
FEs


ts10r10b/symmetric/gr48−13
Objective Value
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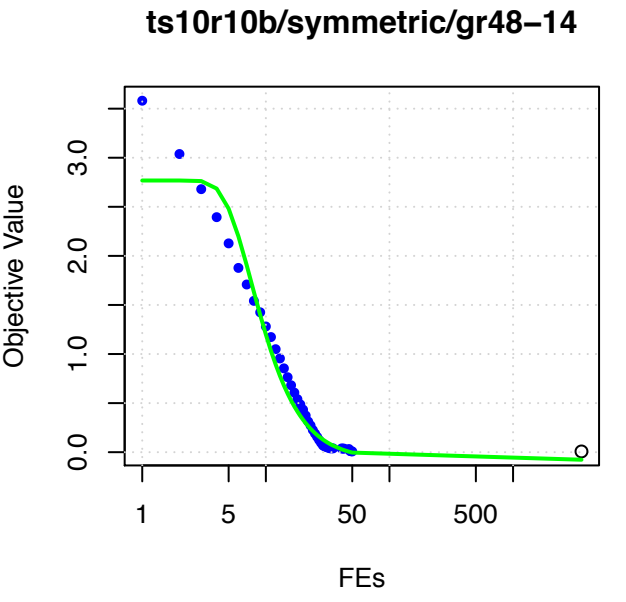
1.0
2.0
3.0
1
5
50
500
FEs


ts10r10b/symmetric/gr48−14
Objective Value
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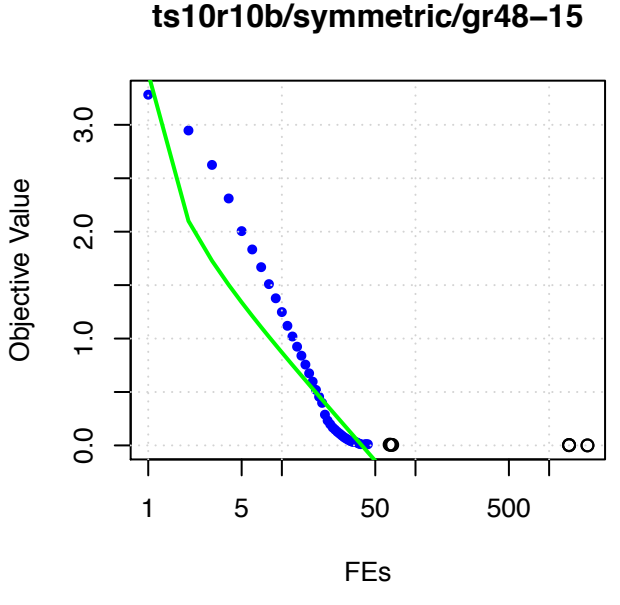
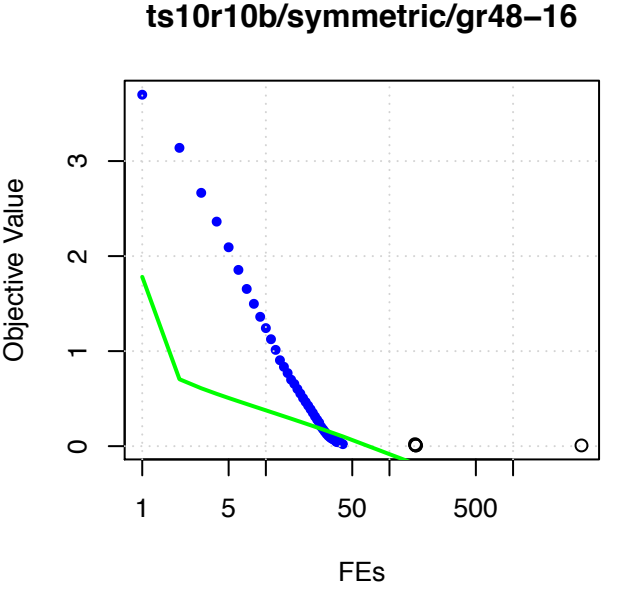
50
500
FEs


ts10r10b/symmetric/gr48−15
Objective Value
0.0
1.0
2.0
3.0
1
5
50
500
FEs


ts10r10b/symmetric/gr48−16
Objective Value
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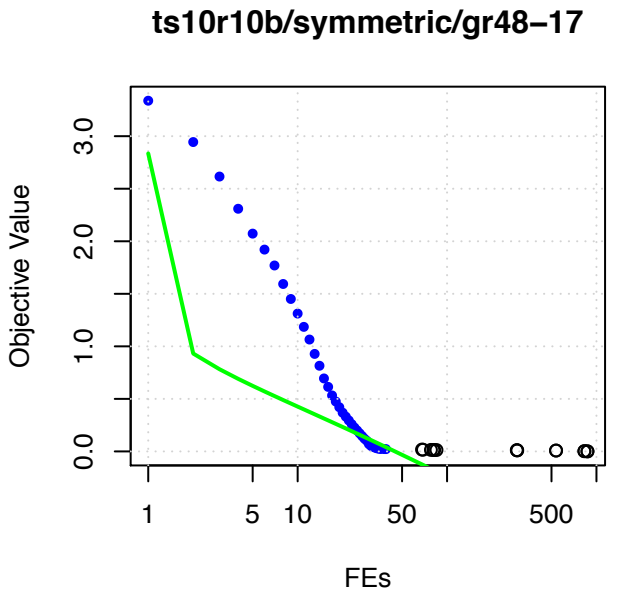
1
2
3
1
5
50
500
FEs


ts10r10b/symmetric/gr48−17
Objective Value
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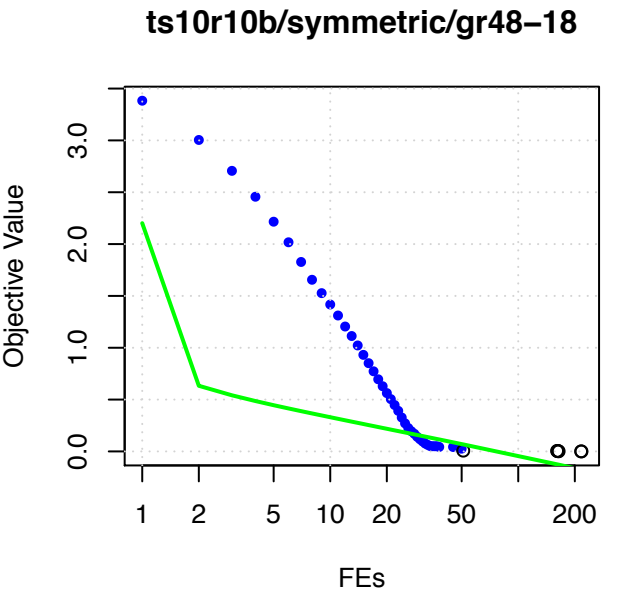
1.0
2.0
3.0
1
5
10
50
500
FEs


ts10r10b/symmetric/gr48−18
Objective Value
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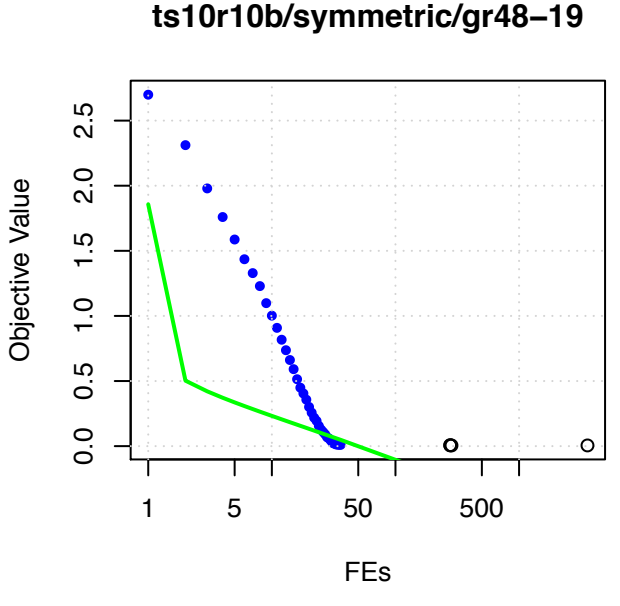
1.0
2.0
3.0
1
2
5
10
20
50
200
FEs


ts10r10b/symmetric/gr48−19
Objective Value
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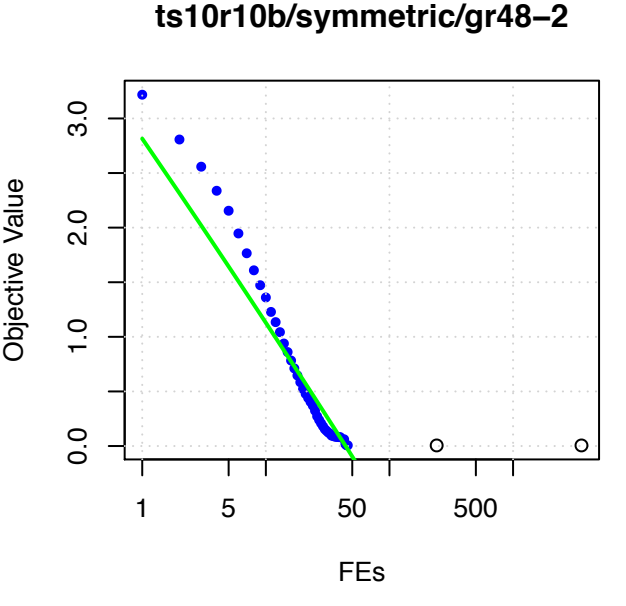
0.5
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts10r10b/symmetric/gr48−2
Objective Value
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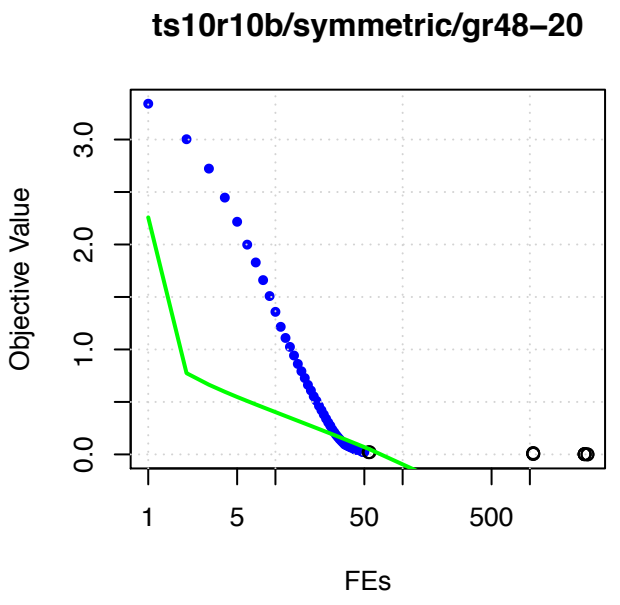
2.0
3.0
1
5
50
500
FEs


ts10r10b/symmetric/gr48−20
Objective Value
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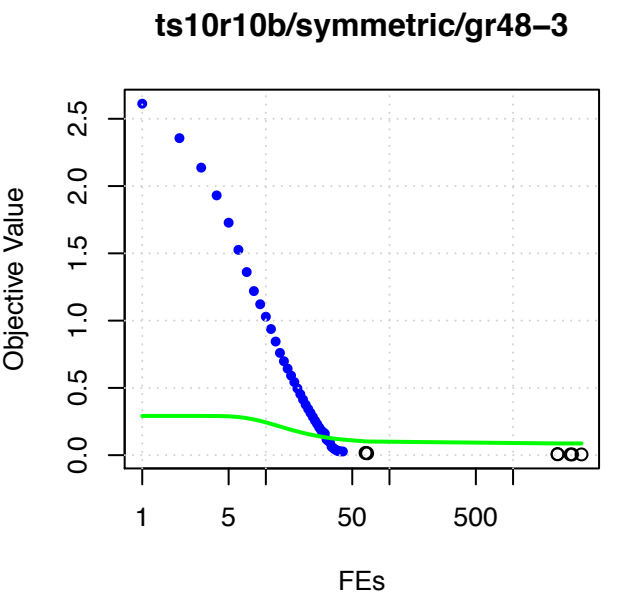
1.0
2.0
3.0
1
5
50
500
FEs


ts10r10b/symmetric/gr48−3
Objective Value
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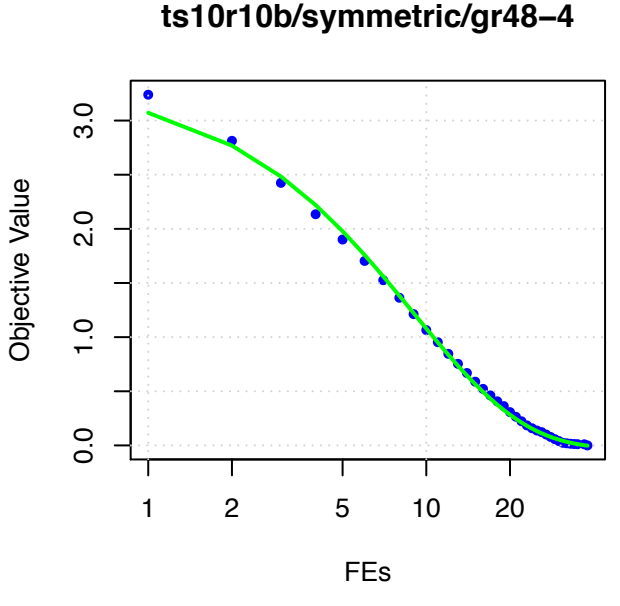
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts10r10b/symmetric/gr48−4
Objective Value
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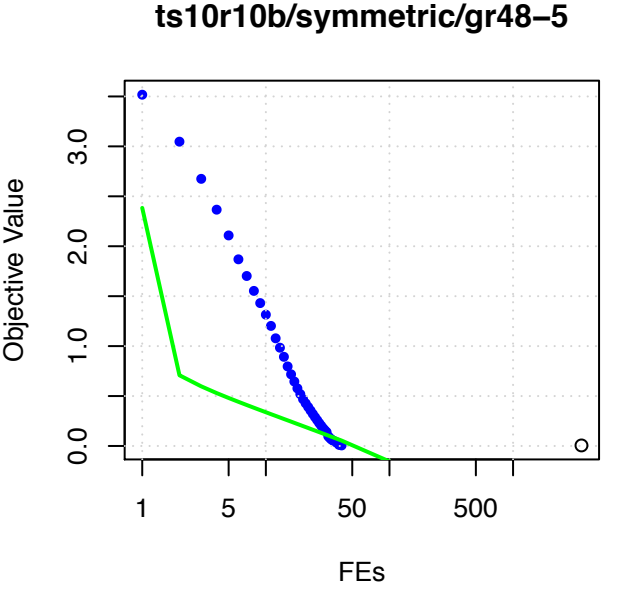
2.0
3.0
1
2
5
10
20
FEs


ts10r10b/symmetric/gr48−5
Objective Value
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2.0
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1
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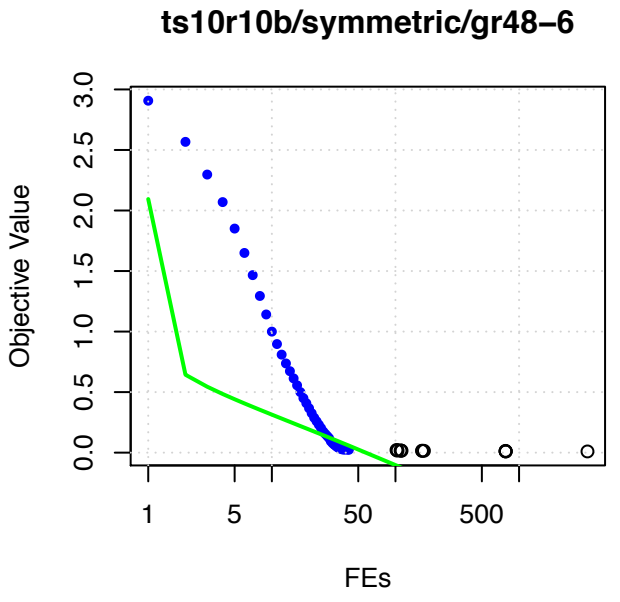
500
FEs


ts10r10b/symmetric/gr48−6
Objective Value
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2.0
2.5
3.0
1
5
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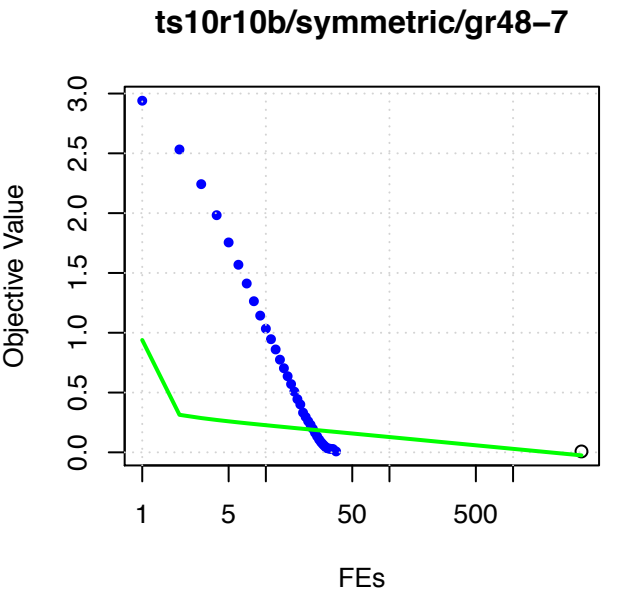
500
FEs


ts10r10b/symmetric/gr48−7
Objective Value
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1.5
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2.5
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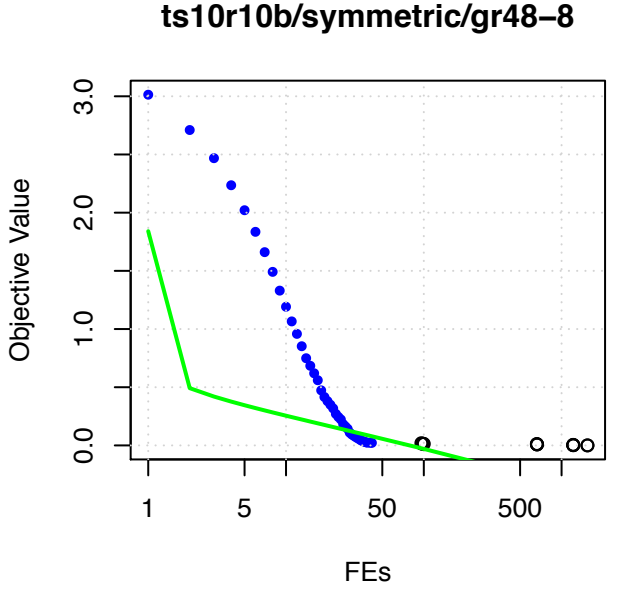
500
FEs


ts10r10b/symmetric/gr48−8
Objective Value
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2.0
3.0
1
5
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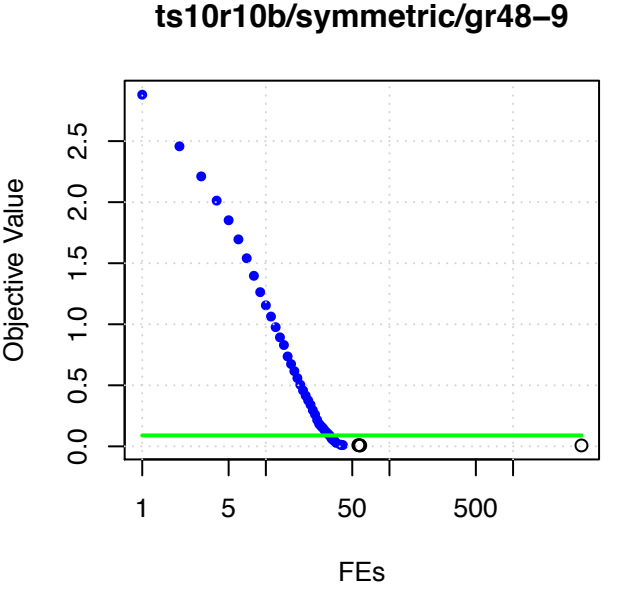
500
FEs


ts10r10b/symmetric/gr48−9
Objective Value
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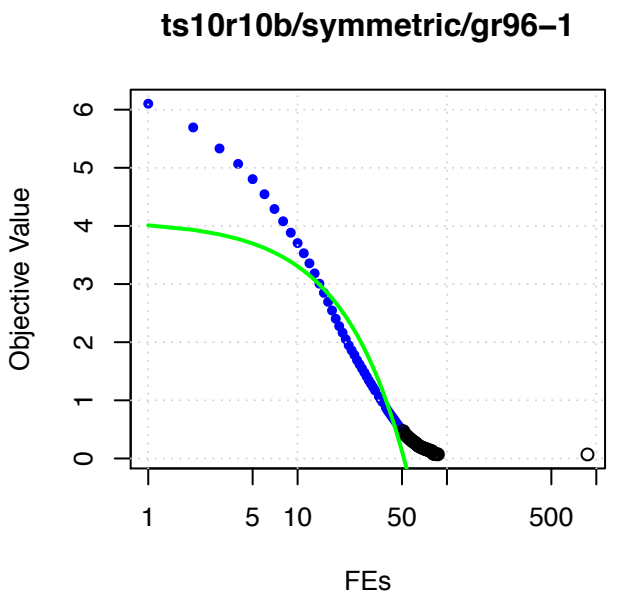
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts10r10b/symmetric/gr96−1
Objective Value
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2
3
4
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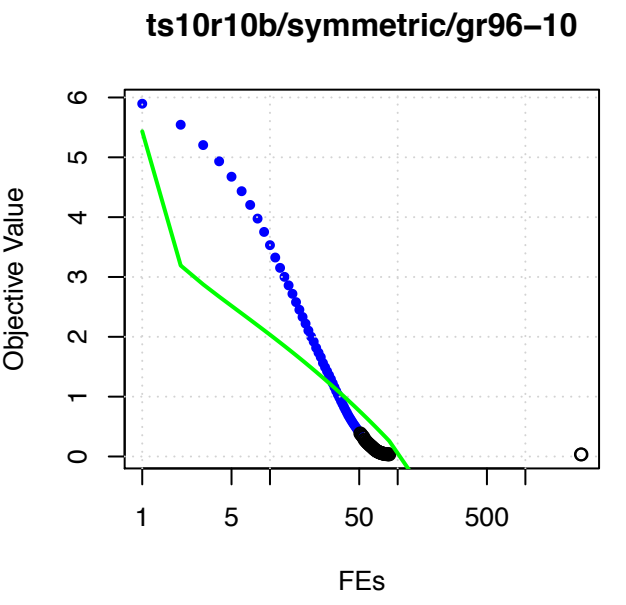
6
1
5
10
50
500
FEs


ts10r10b/symmetric/gr96−10
Objective Value
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2
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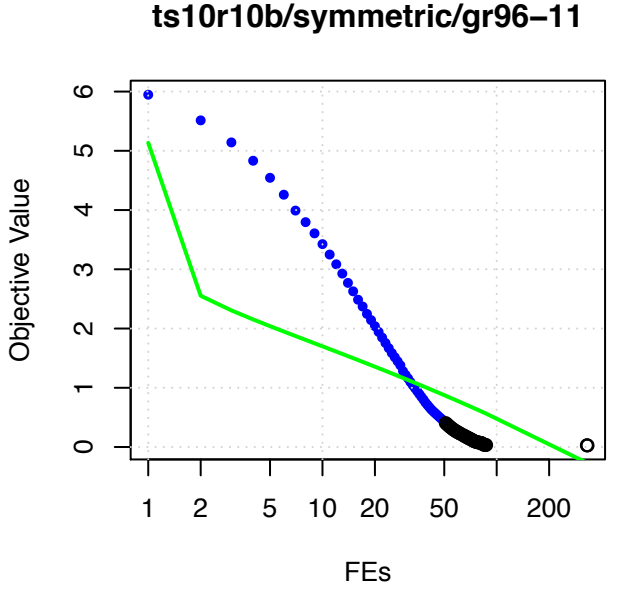
4
5
6
1
5
50
500
FEs


ts10r10b/symmetric/gr96−11
Objective Value
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1
2
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10
20
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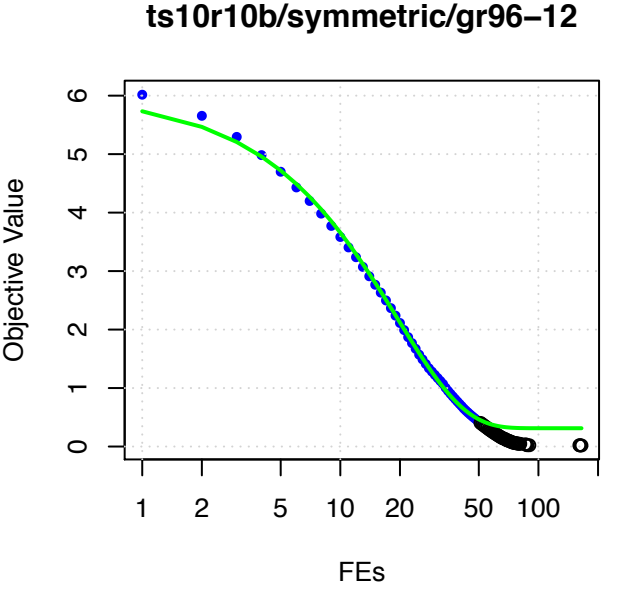
200
FEs


ts10r10b/symmetric/gr96−12
Objective Value
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6
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2
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10
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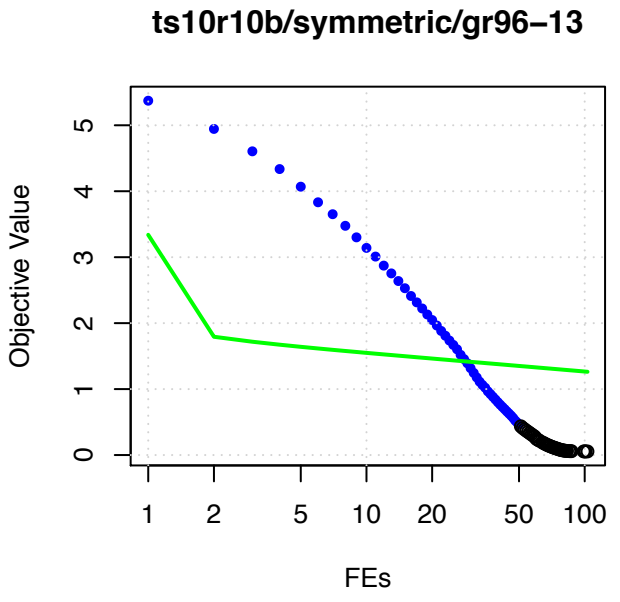
FEs


ts10r10b/symmetric/gr96−13
Objective Value
FEs
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2
3
4
5
1
2
5
10
20
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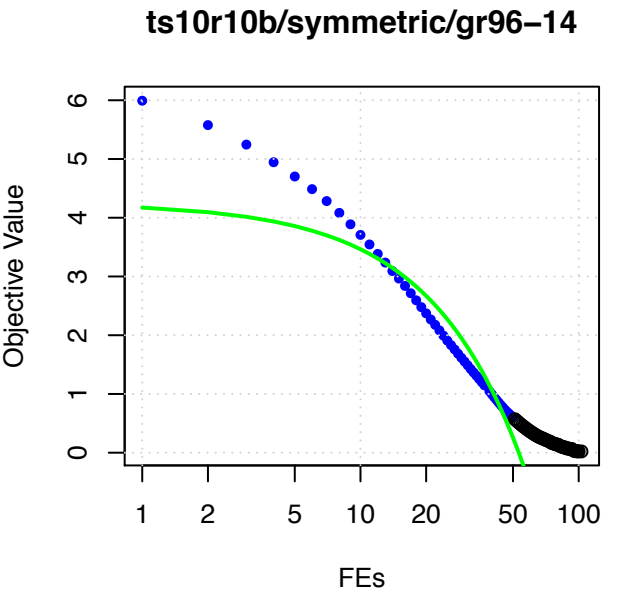
100


ts10r10b/symmetric/gr96−14
Objective Value
FEs
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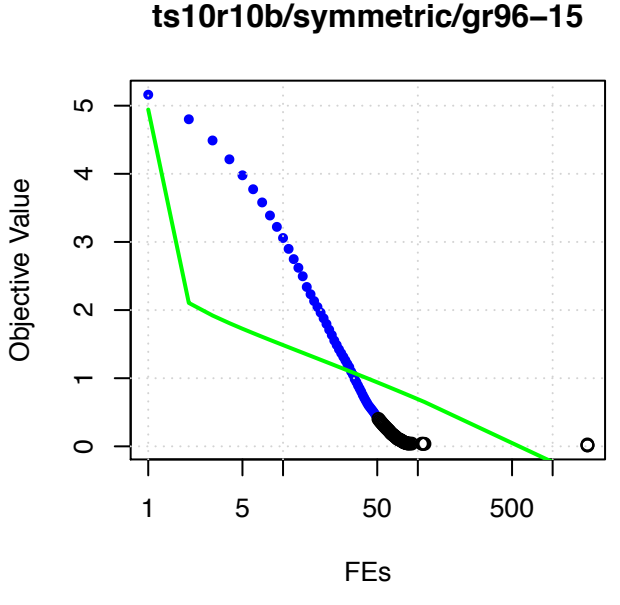
100


ts10r10b/symmetric/gr96−15
Objective Value
FEs
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1
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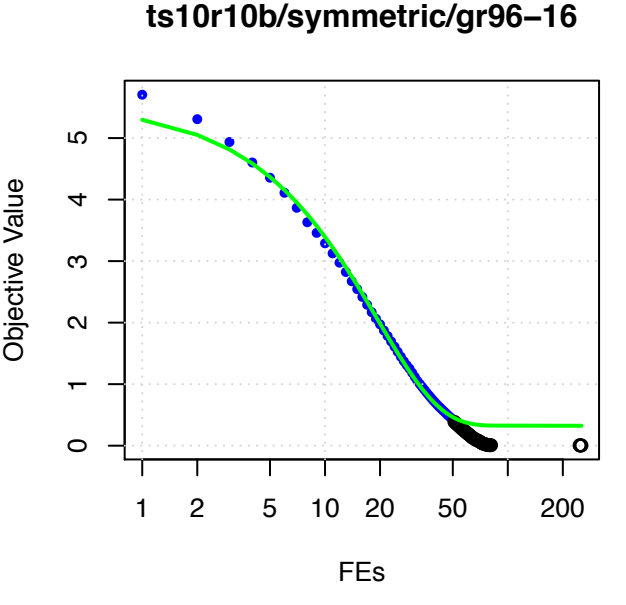
50
500


ts10r10b/symmetric/gr96−16
Objective Value
FEs
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2
3
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2
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10
20
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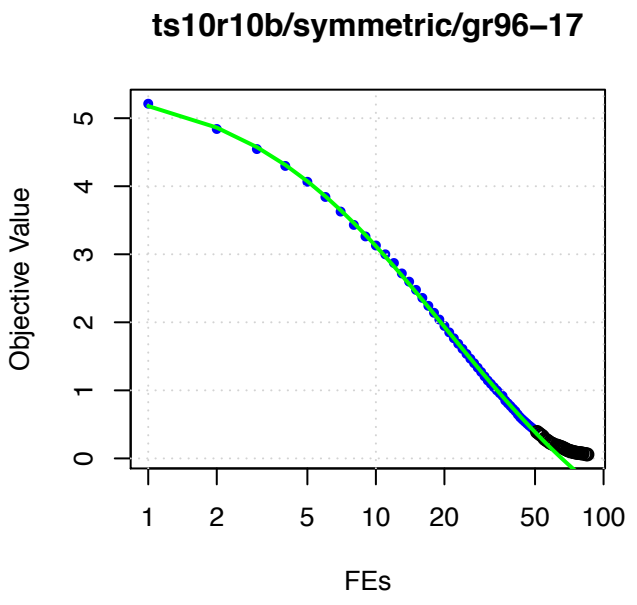
200


ts10r10b/symmetric/gr96−17
Objective Value
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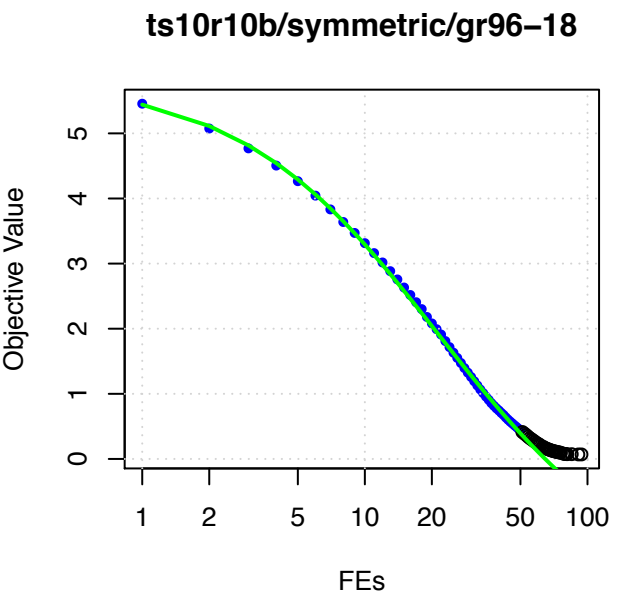
2
3
4
5
1
2
5
10
20
50
100
FEs


ts10r10b/symmetric/gr96−18
Objective Value
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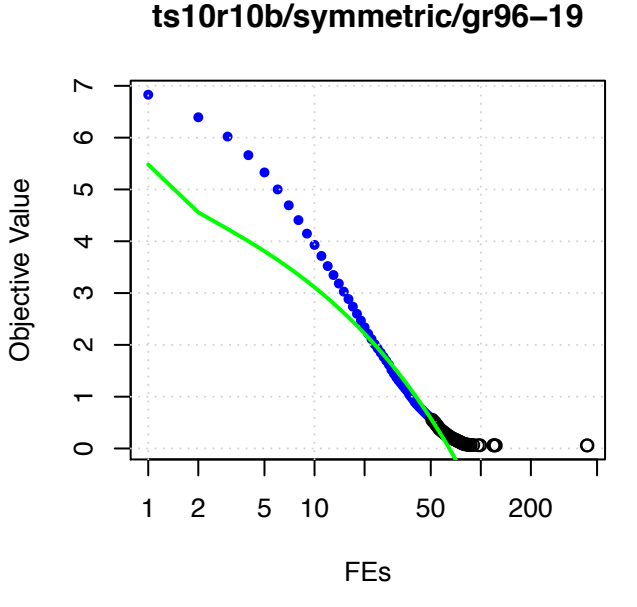
2
3
4
5
1
2
5
10
20
50
100
FEs


ts10r10b/symmetric/gr96−19
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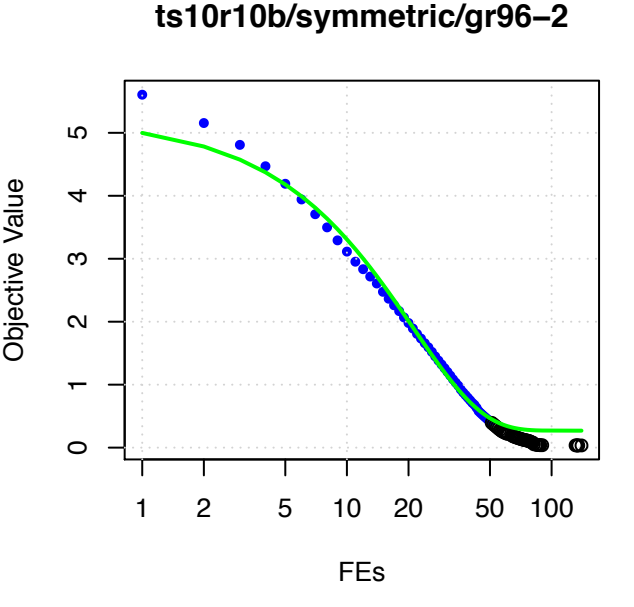
ts10r10b/symmetric/gr96−2
Objective Value
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20
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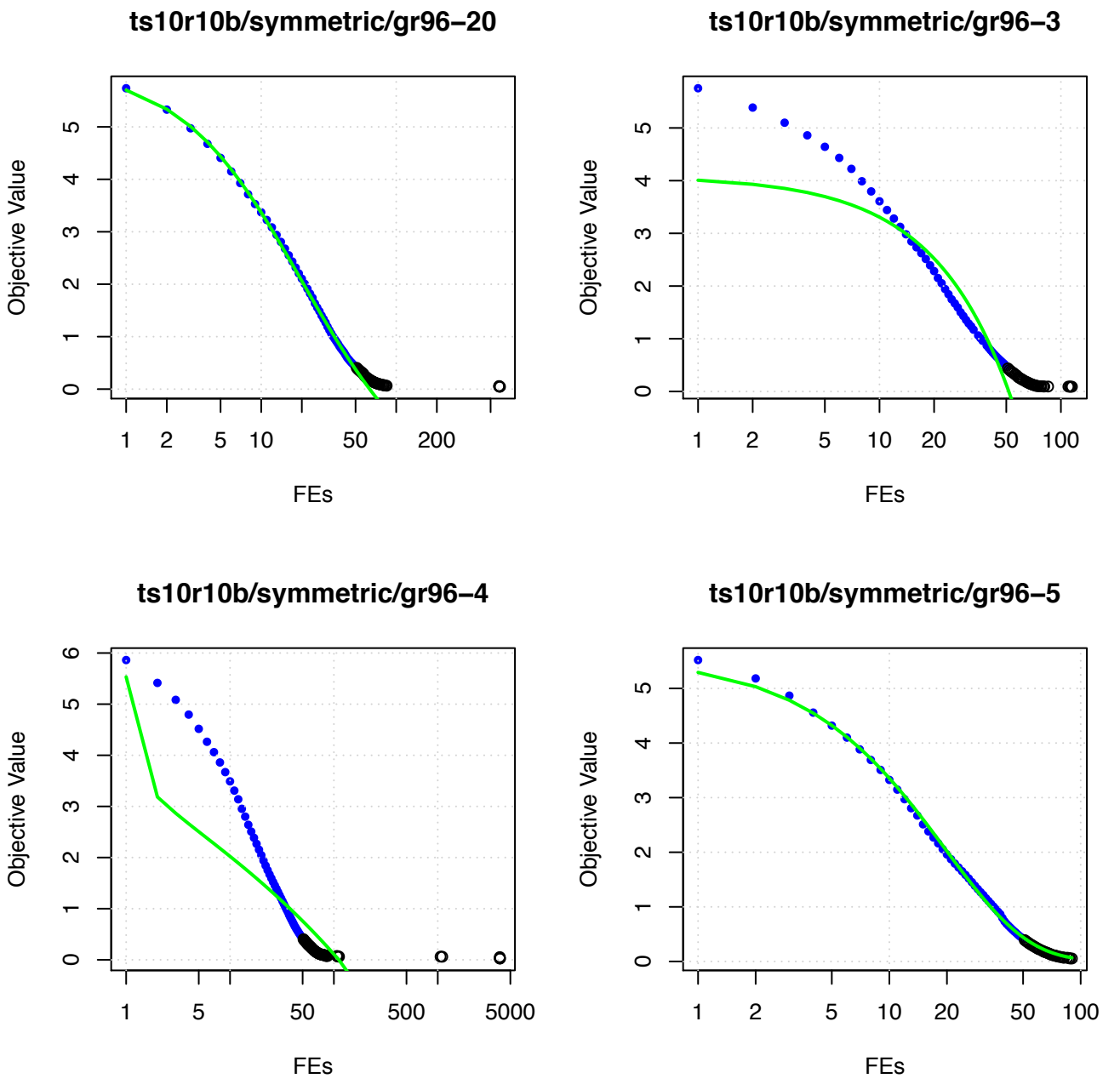
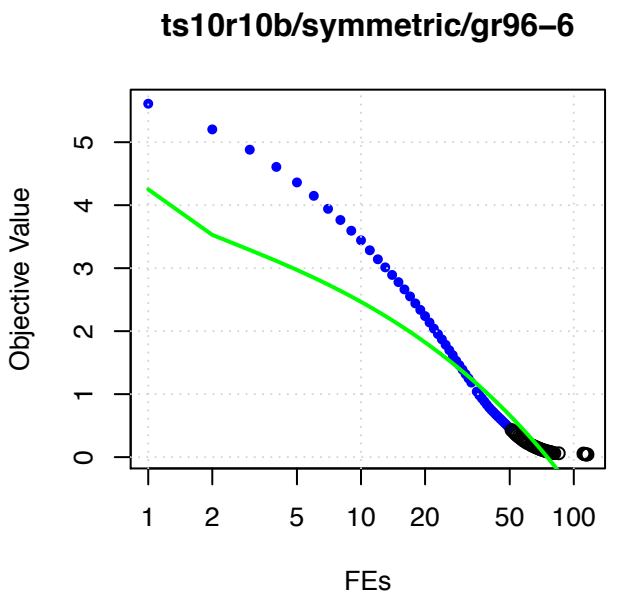
100
FEs


ts10r10b/symmetric/gr96−20
Objective Value
FEs
ts10r10b/symmetric/gr96−3
Objective Value
FEs
ts10r10b/symmetric/gr96−4
Objective Value
FEs
ts10r10b/symmetric/gr96−5
Objective Value
FEs


ts10r10b/symmetric/gr96−6
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1
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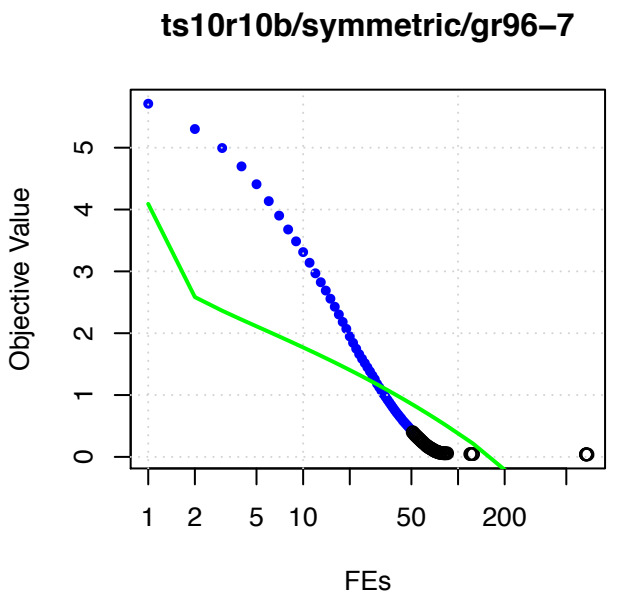
10
20
50
100
FEs


ts10r10b/symmetric/gr96−7
Objective Value
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2
3
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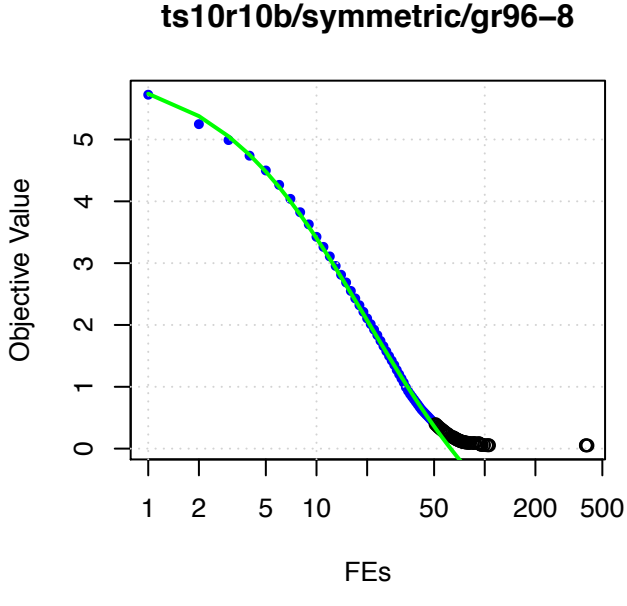
10
50
200
FEs


ts10r10b/symmetric/gr96−8
Objective Value
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2
3
4
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1
2
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10
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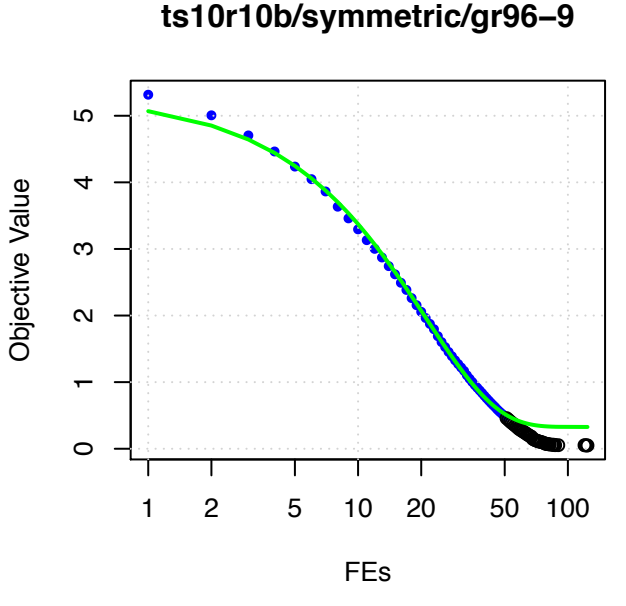
500
FEs


ts10r10b/symmetric/gr96−9
Objective Value
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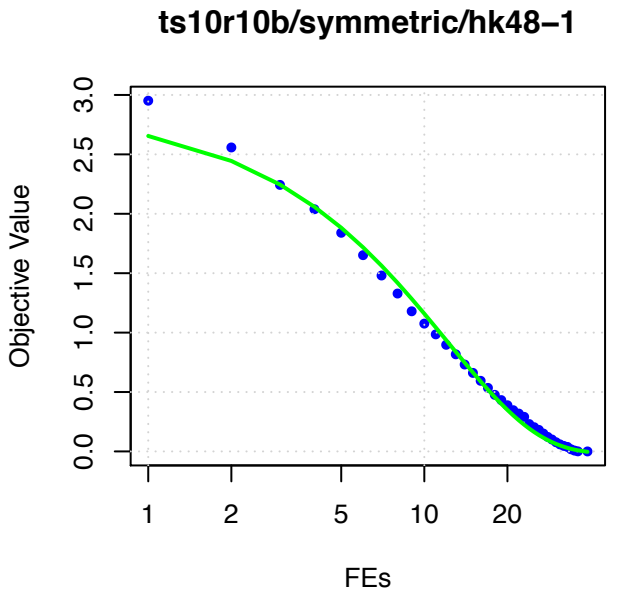
2
3
4
5
1
2
5
10
20
50
100
FEs


ts10r10b/symmetric/hk48−1
Objective Value
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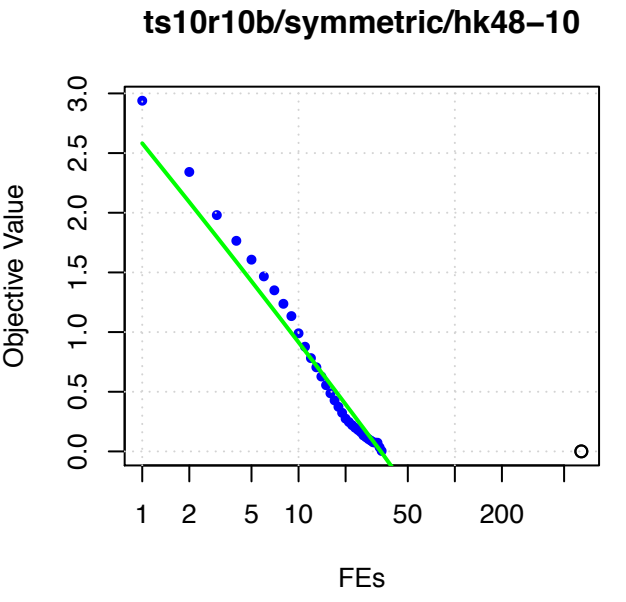
0.5
1.0
1.5
2.0
2.5
3.0
1
2
5
10
20
FEs


ts10r10b/symmetric/hk48−10
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10
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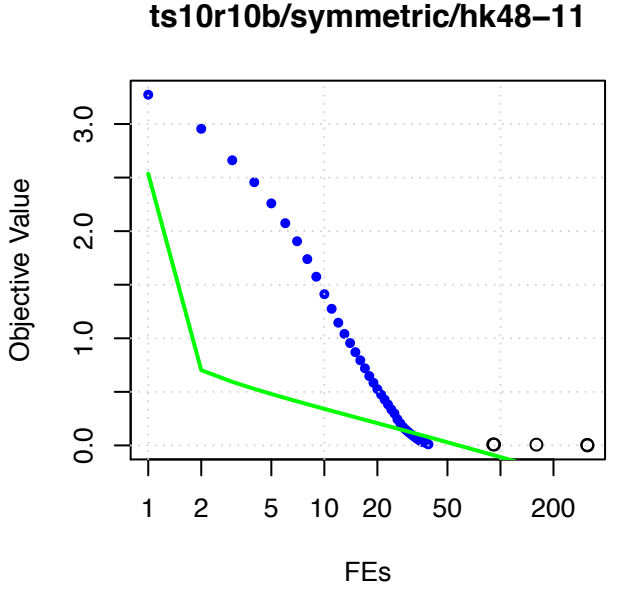
200
FEs


ts10r10b/symmetric/hk48−11
Objective Value
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20
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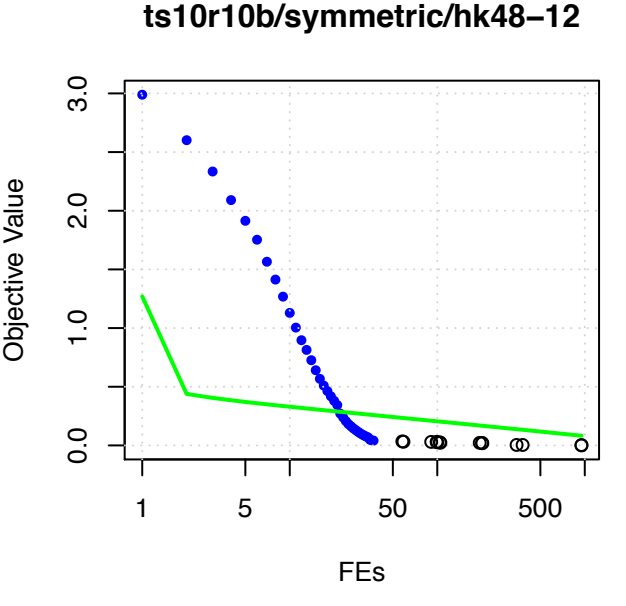
200
FEs


ts10r10b/symmetric/hk48−12
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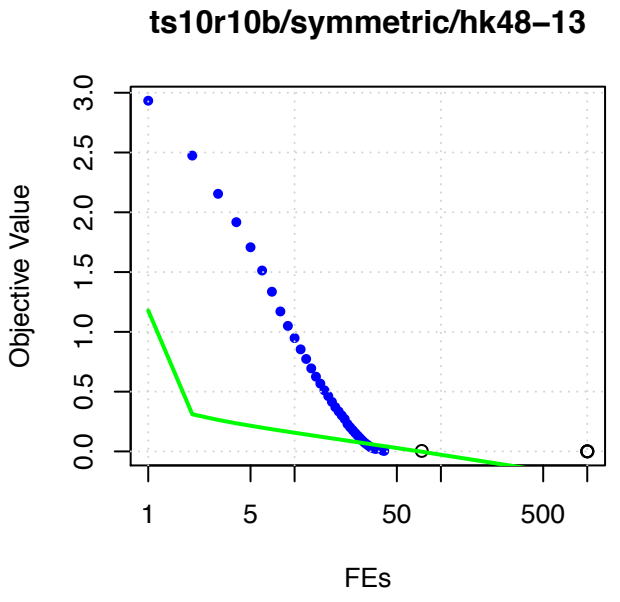
500
FEs


ts10r10b/symmetric/hk48−13
Objective Value
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1.5
2.0
2.5
3.0
1
5
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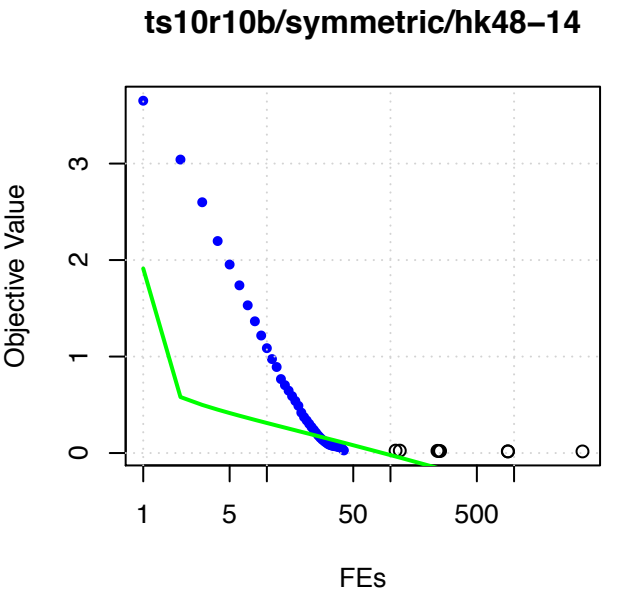
500
FEs


ts10r10b/symmetric/hk48−14
Objective Value
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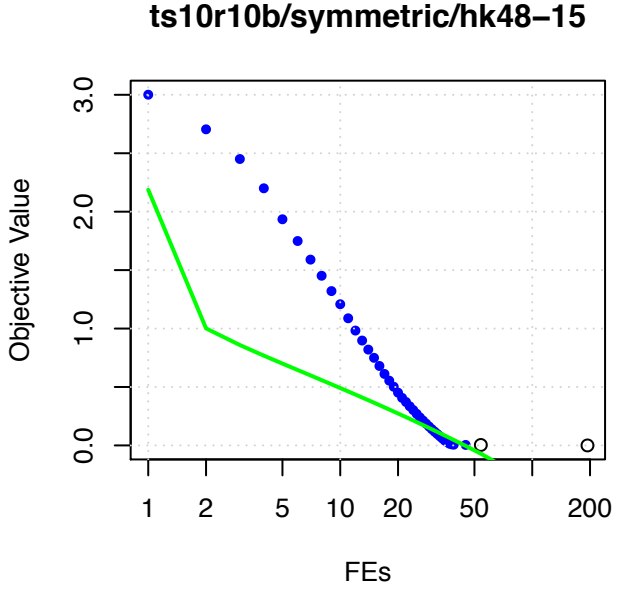
1
5
50
500
FEs


ts10r10b/symmetric/hk48−15
Objective Value
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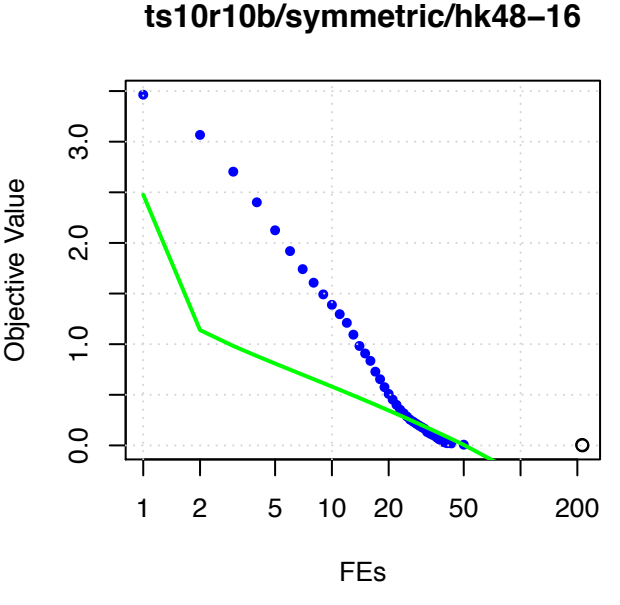
2
5
10
20
50
200
FEs


ts10r10b/symmetric/hk48−16
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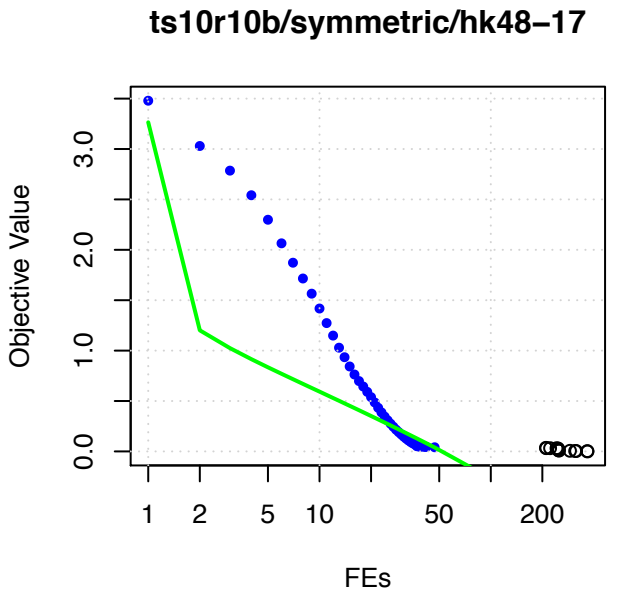
2
5
10
20
50
200
FEs


ts10r10b/symmetric/hk48−17
Objective Value
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1.0
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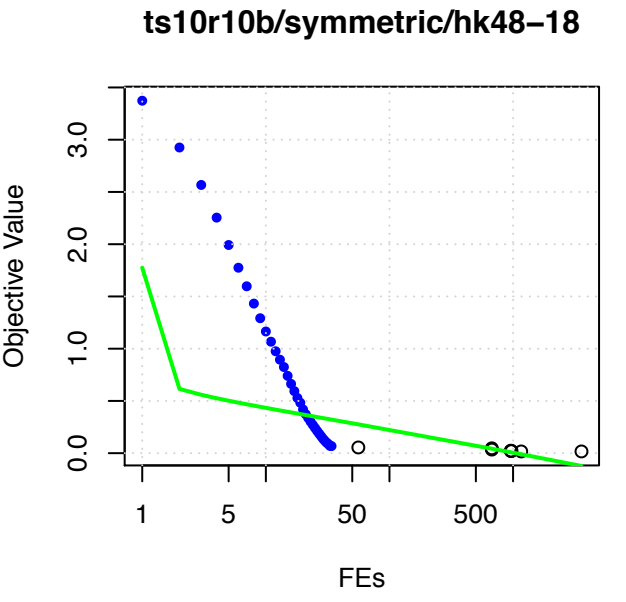
10
50
200
FEs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Objective Value
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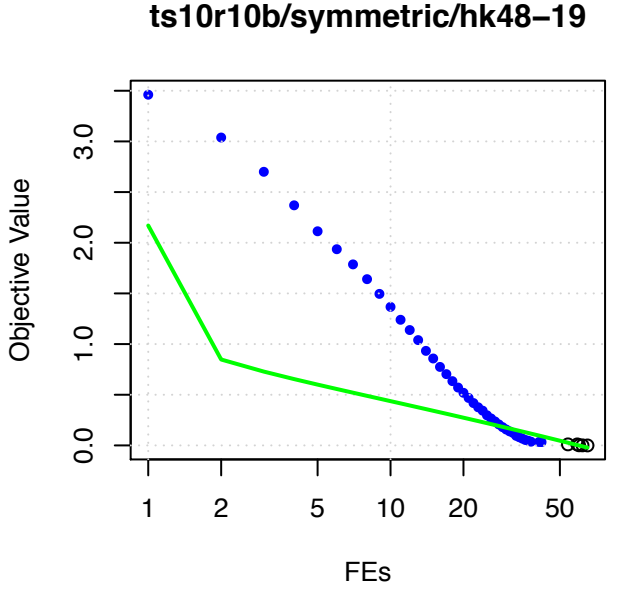
500
FEs


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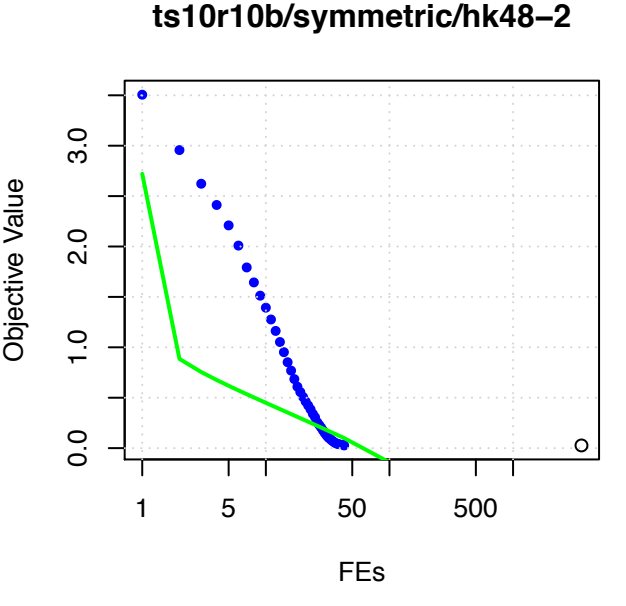
1.0
2.0
3.0
1
2
5
10
20
50
FEs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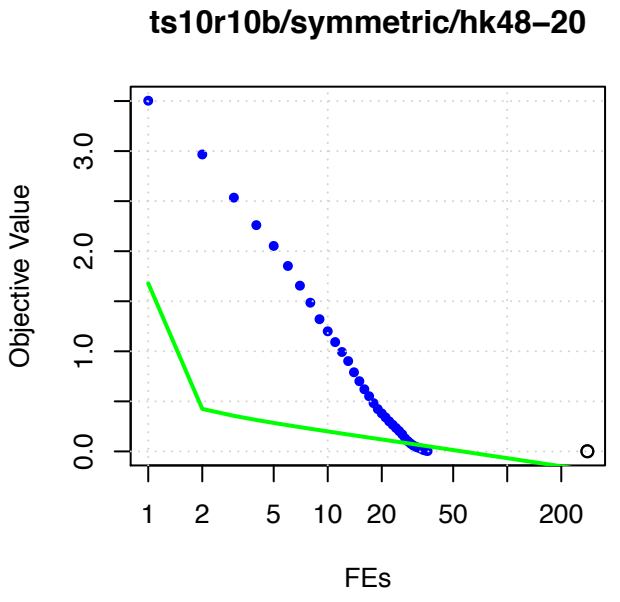
500
FEs


ts10r10b/symmetric/hk48−20
Objective Value
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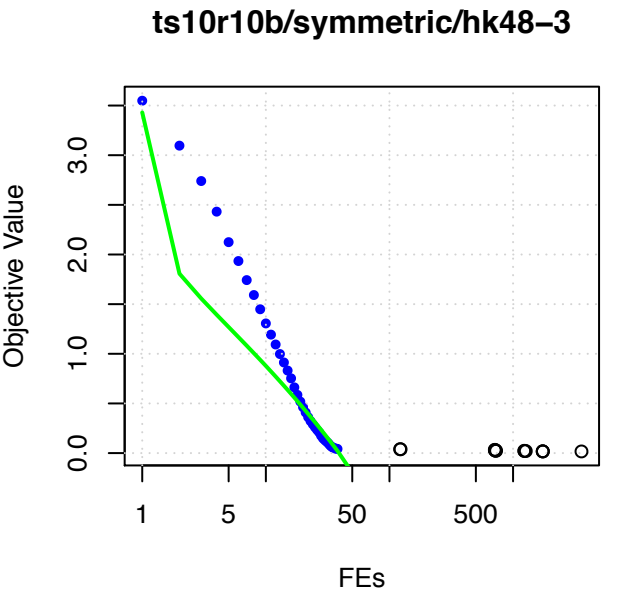
2.0
3.0
1
2
5
10
20
50
200
FEs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Objective Value
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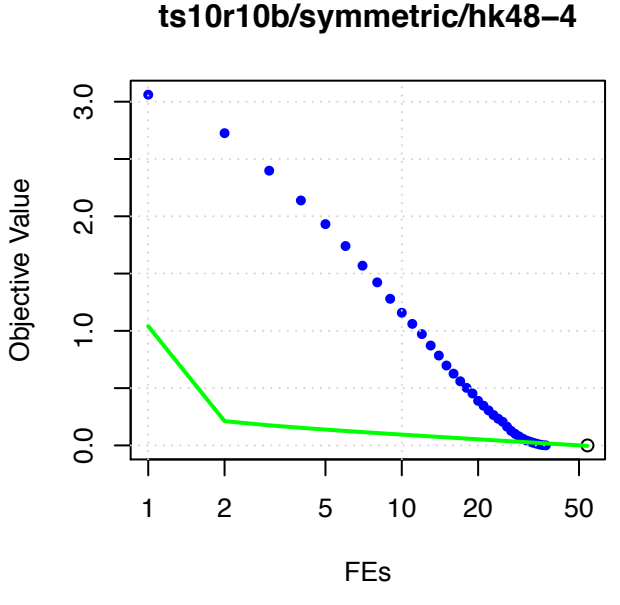
1
5
50
500
FEs


ts10r10b/symmetric/hk48−4
Objective Value
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2.0
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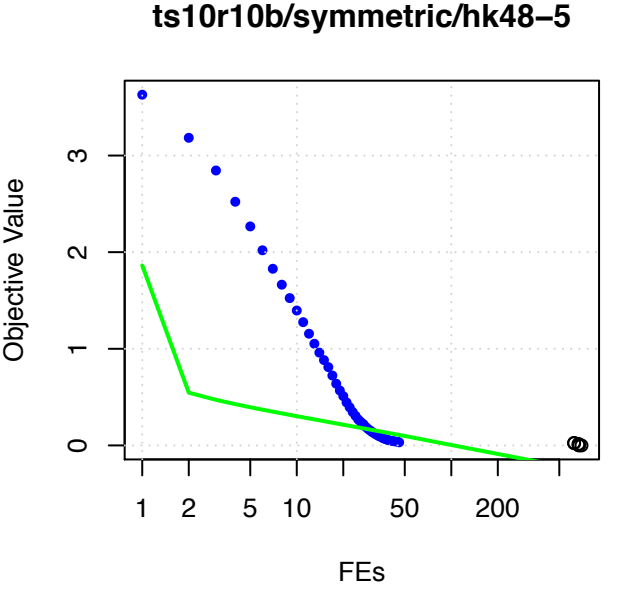
1
2
5
10
20
50
FEs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Objective Value
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2
5
10
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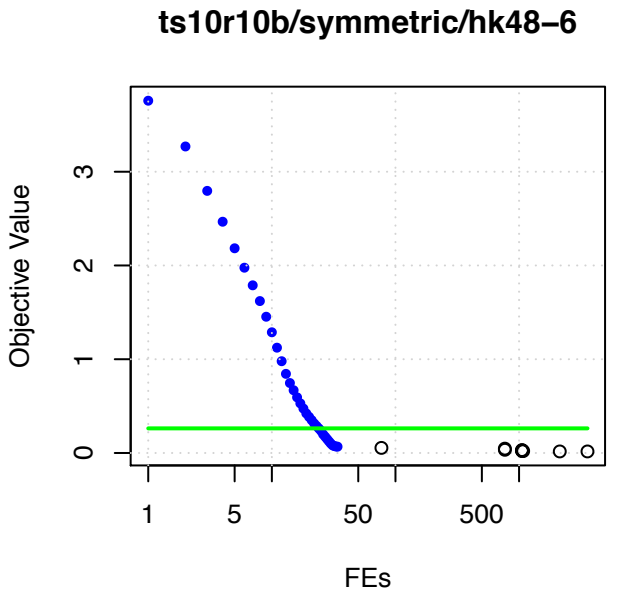
200
FEs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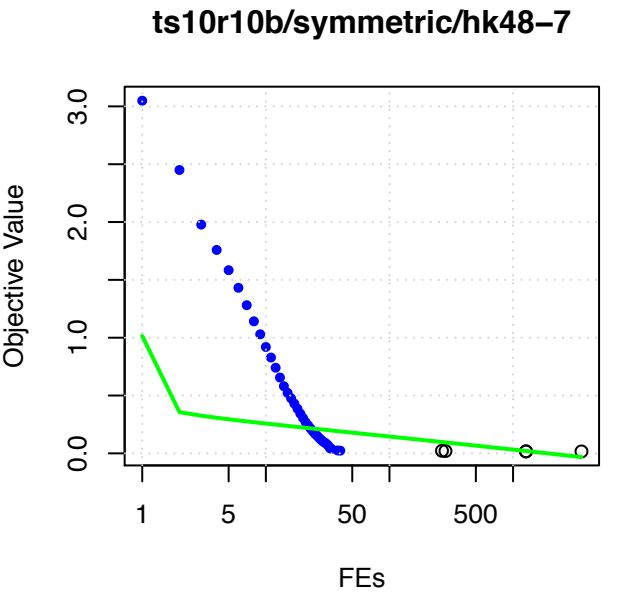
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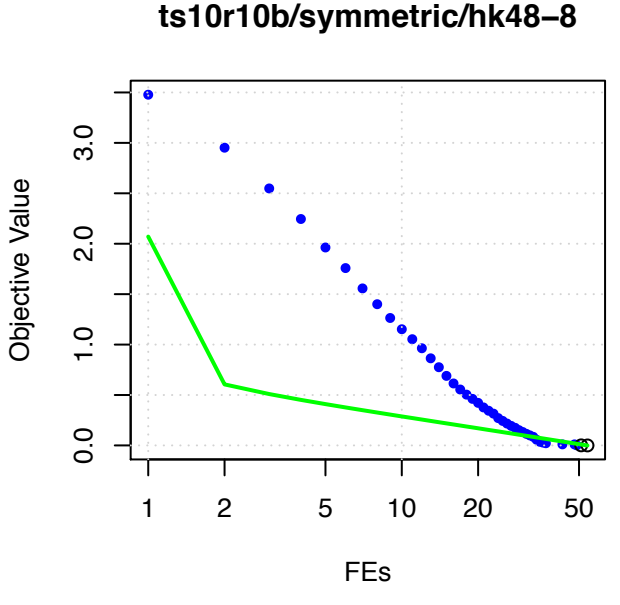
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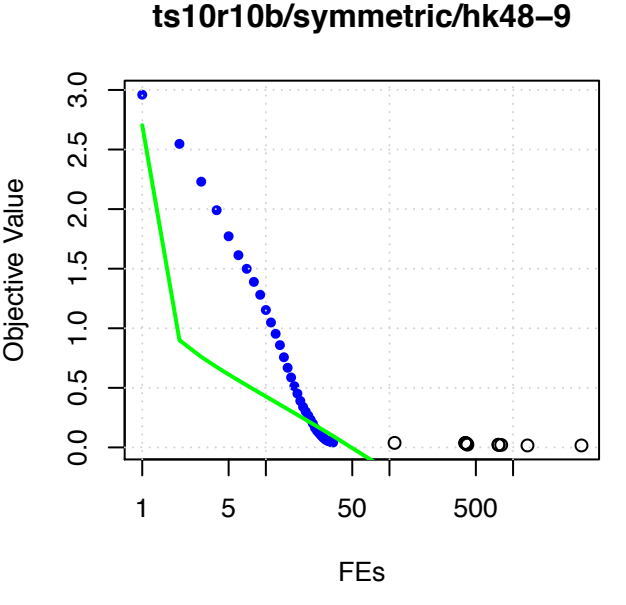
ts10r10b/symmetric/hk48−9
Objective Value
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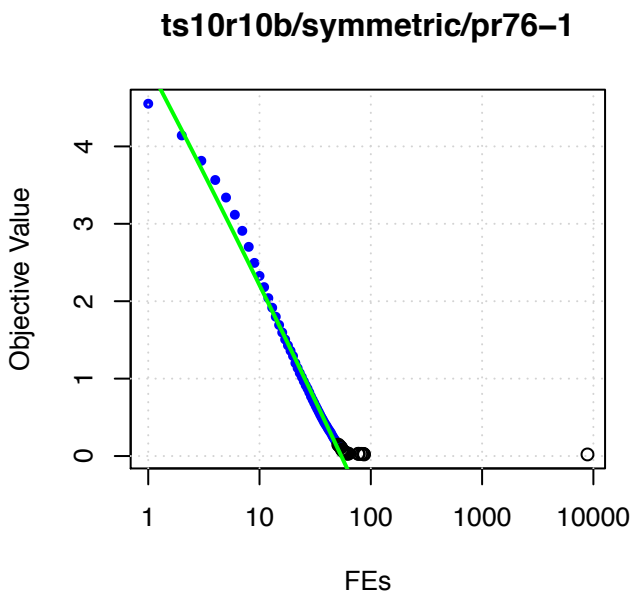
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Objective Value
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10000
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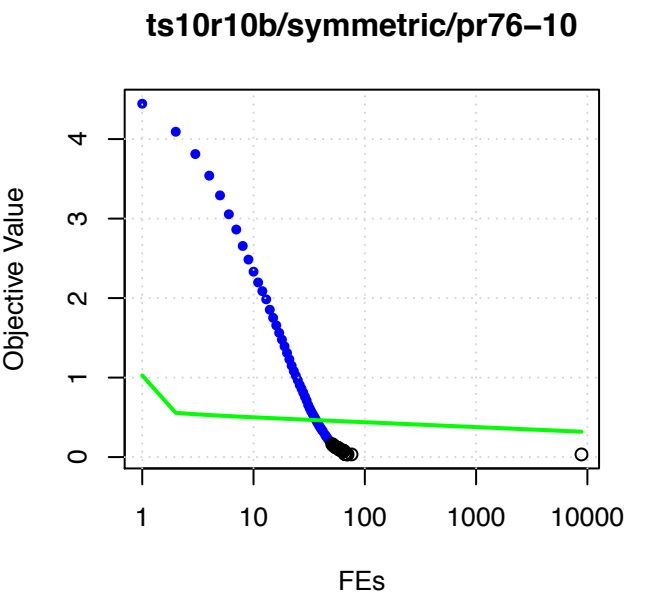
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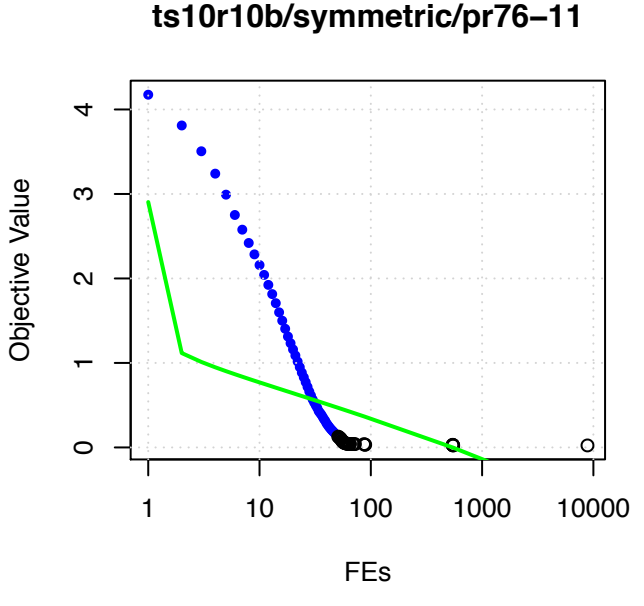
FEs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Objective Value
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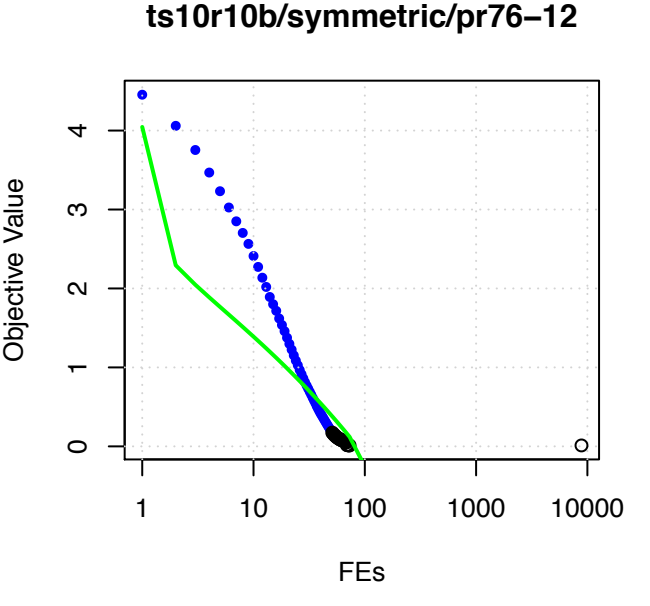
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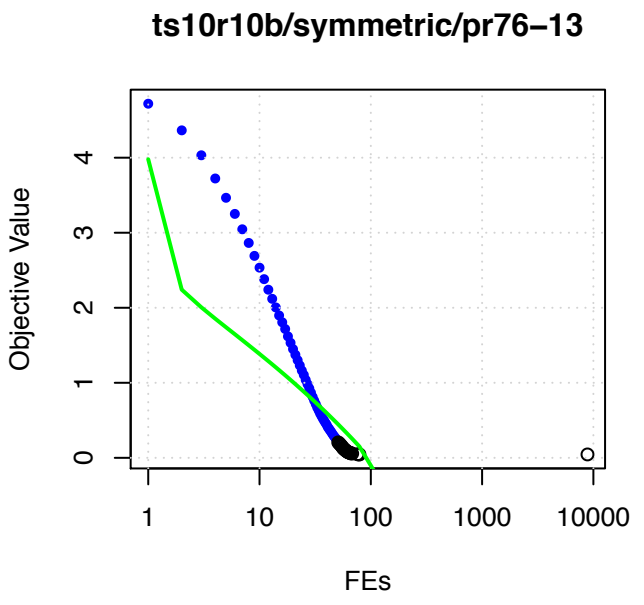
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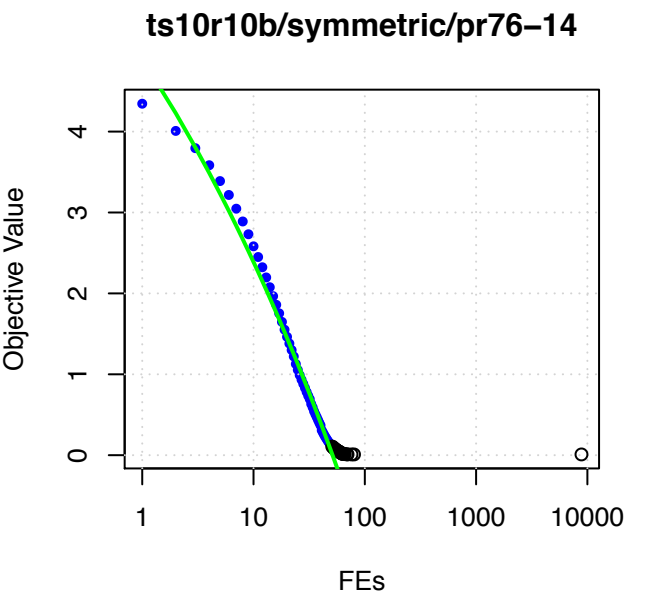
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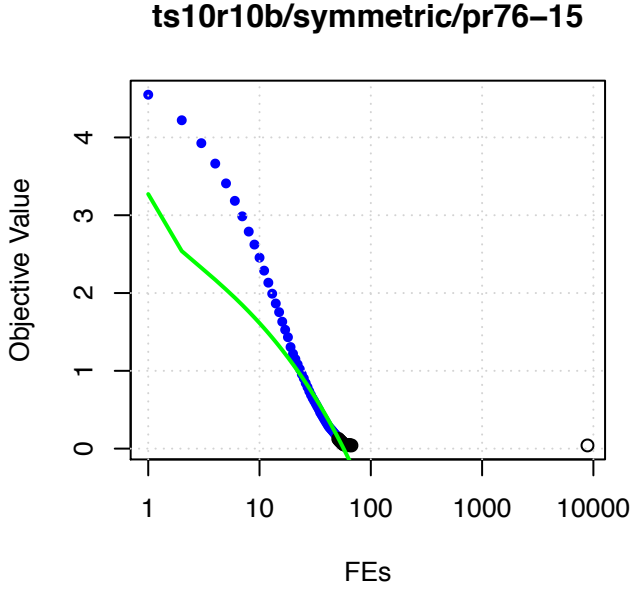
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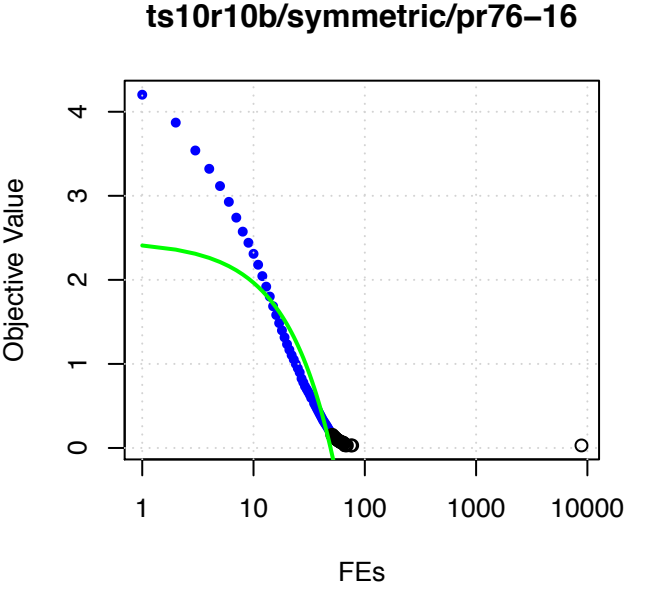
FEs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Objective Value
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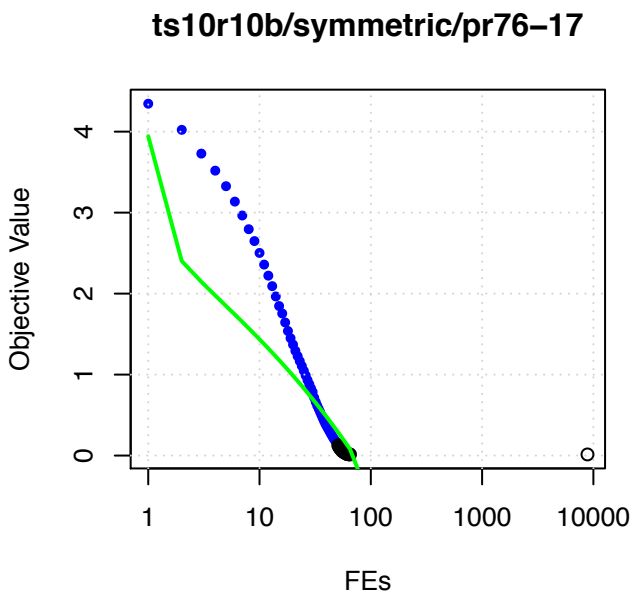
FEs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Objective Value
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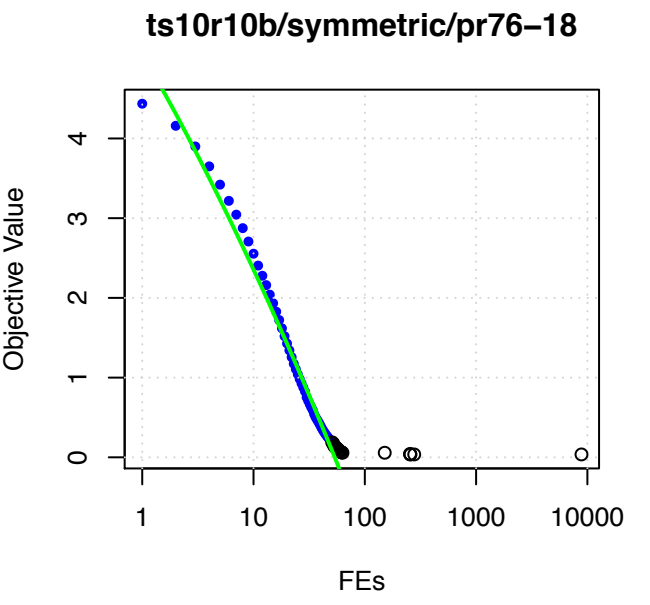
FEs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Objective Value
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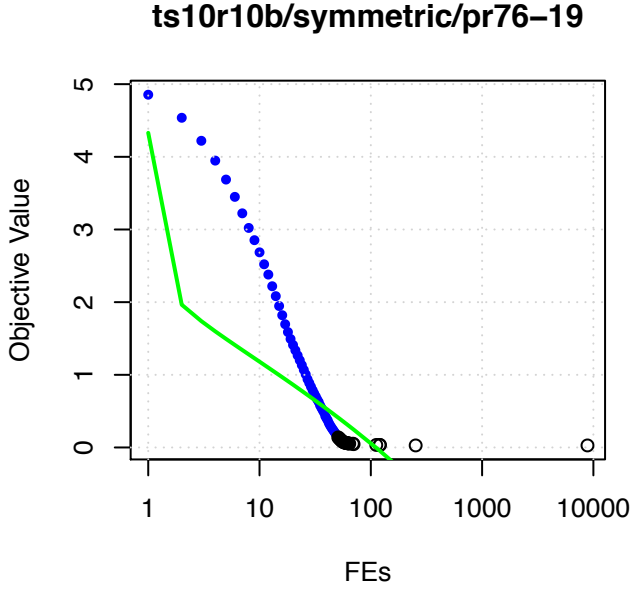
10000
FEs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Objective Value
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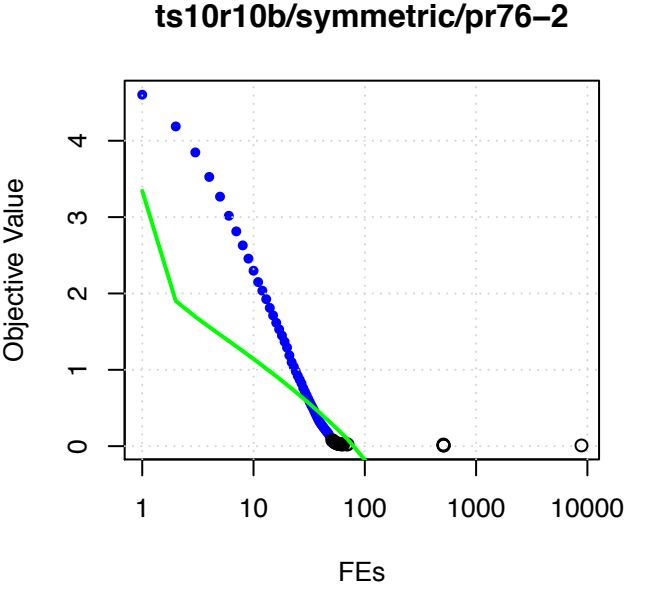
FEs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Objective Value
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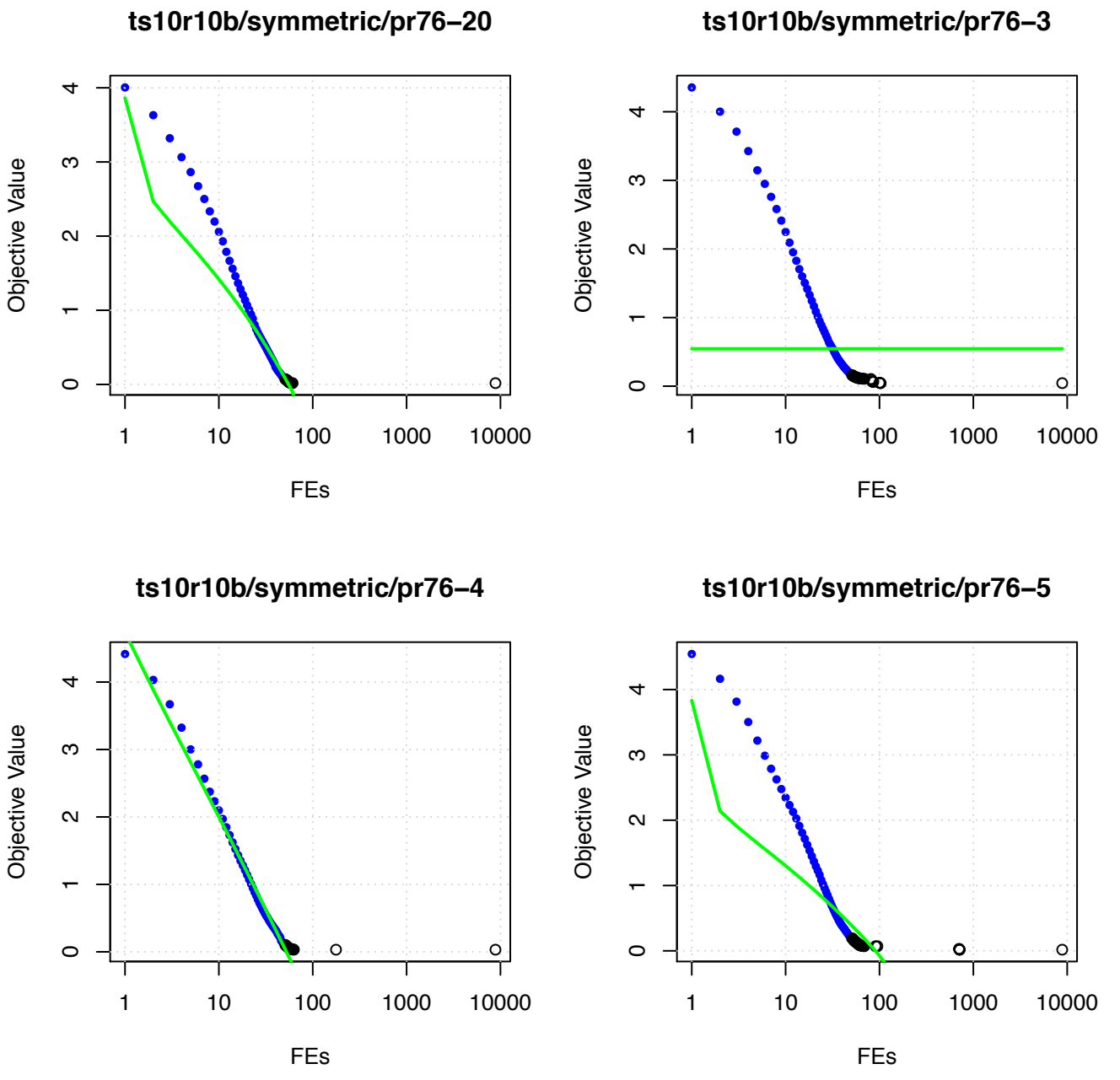
10000
FEs


ts10r10b/symmetric/pr76−20
ts10r10b/symmetric/pr76−3
ts10r10b/symmetric/pr76−4
ts10r10b/symmetric/pr76−5
Objective Value
FEs
0
1
2
3
4
1
10
100
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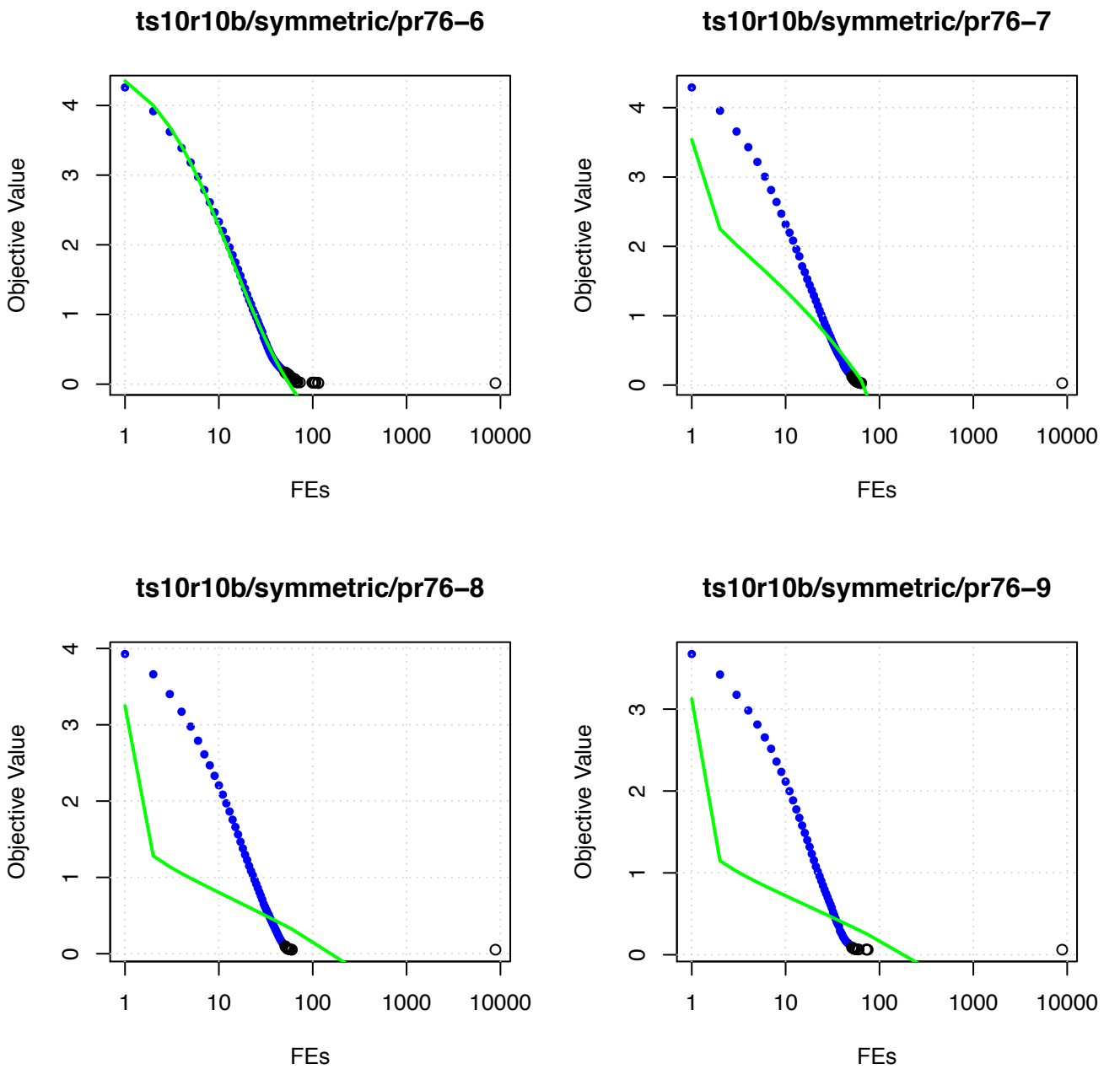
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ts10r10b/symmetric/pr76−7
ts10r10b/symmetric/pr76−8
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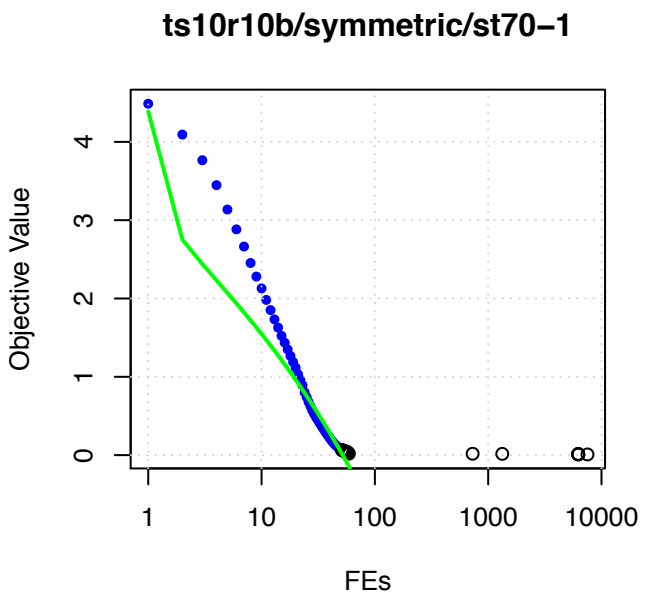
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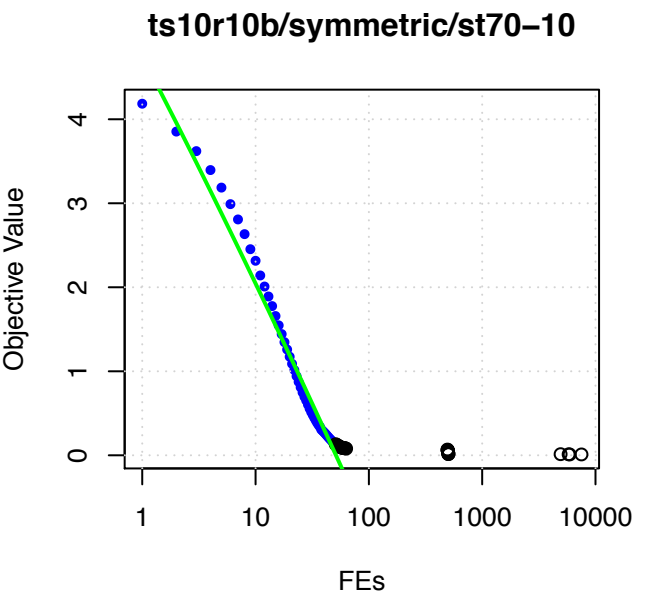
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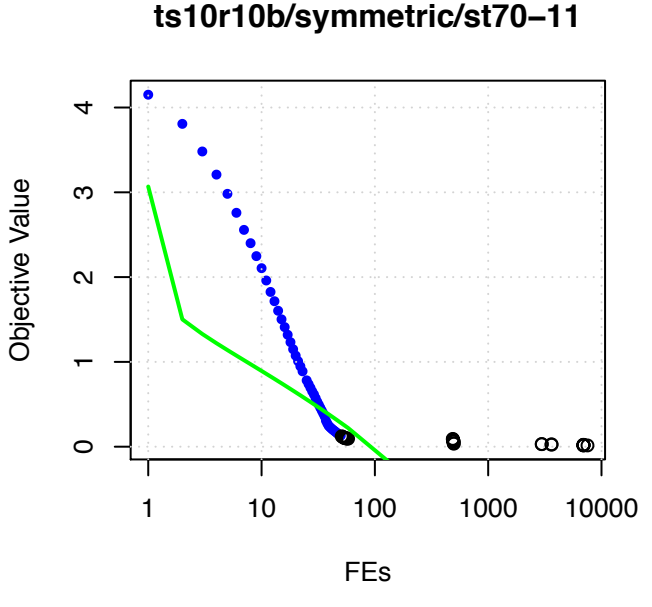
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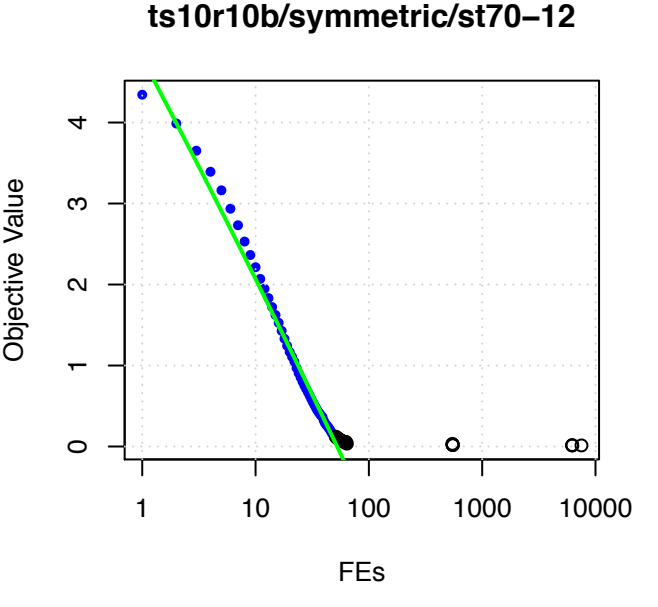
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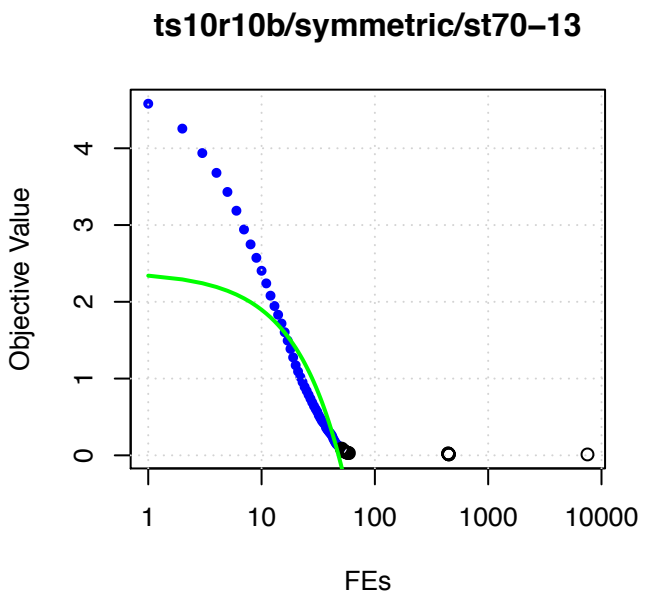
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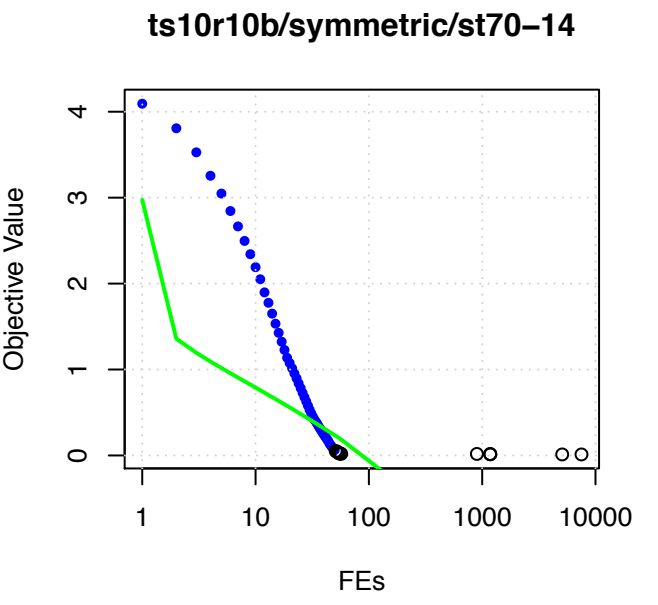
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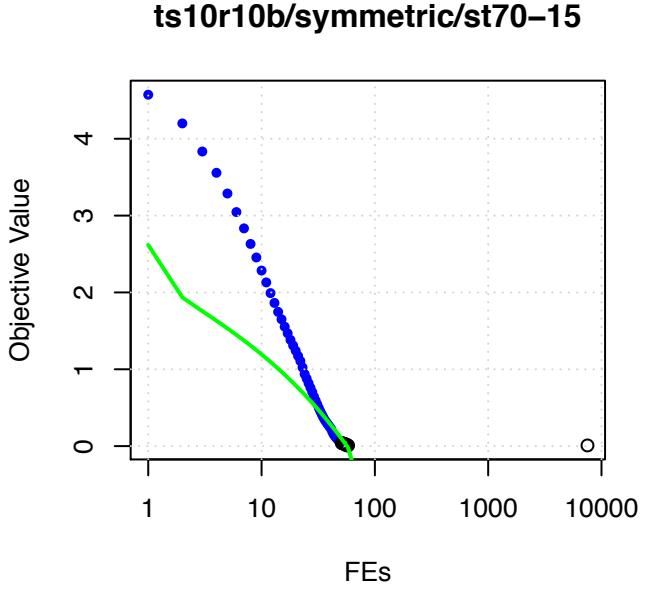
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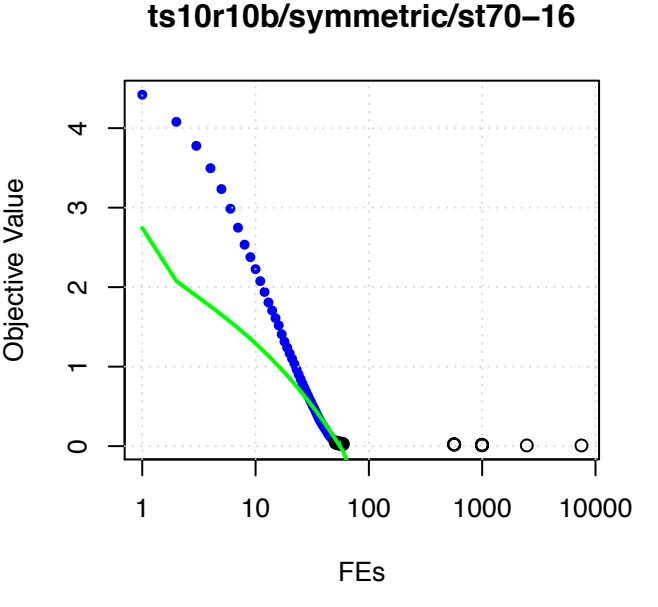
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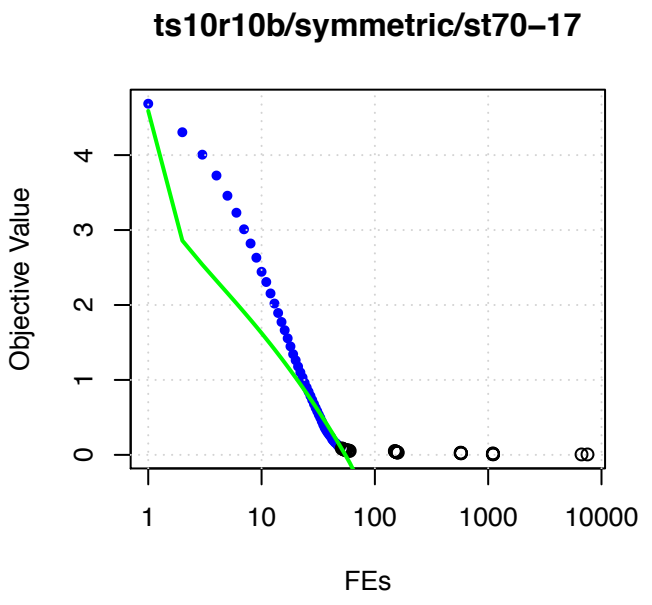
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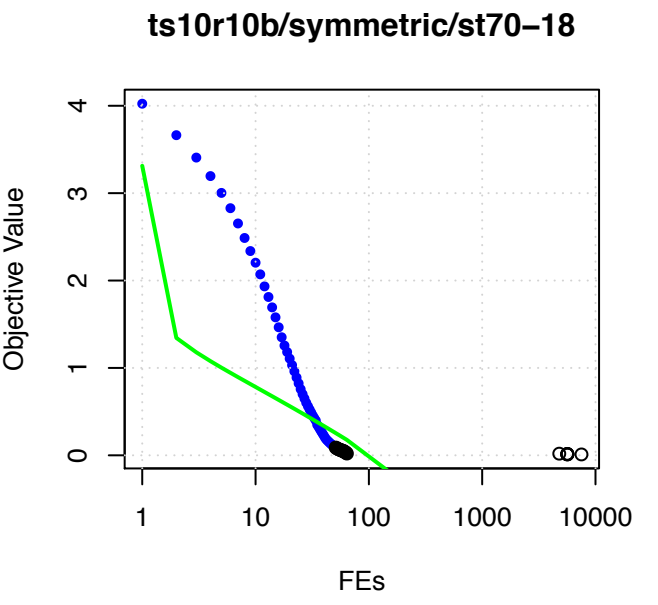
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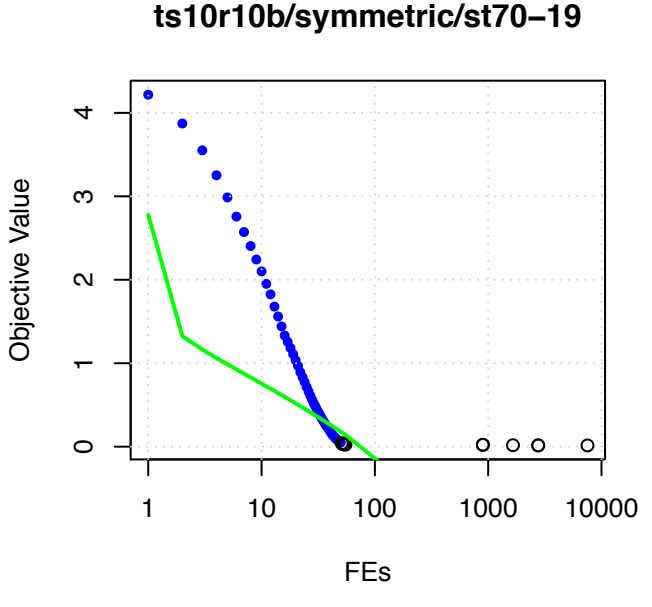
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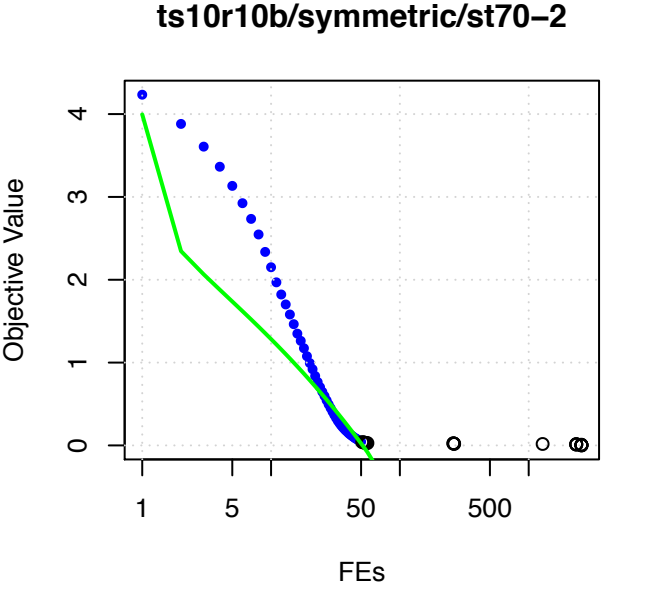
FEs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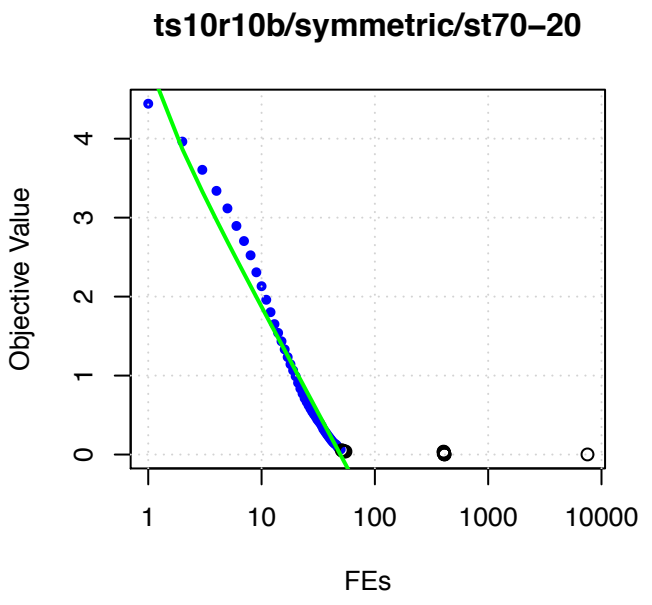
FEs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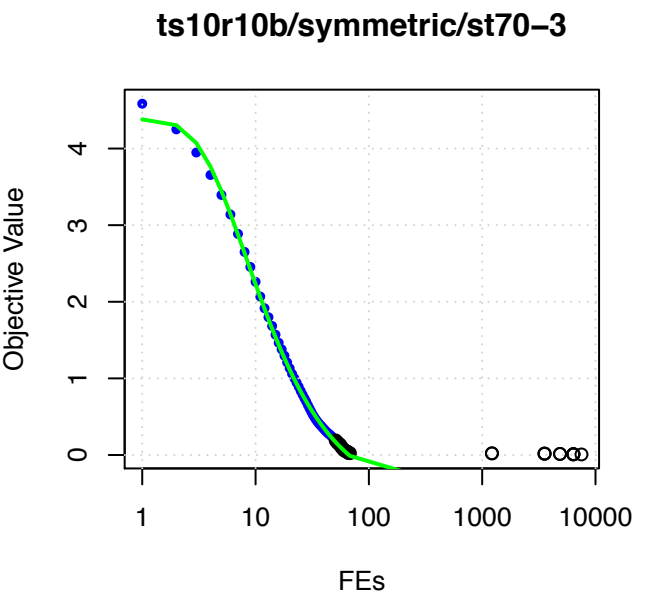
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Objective Value
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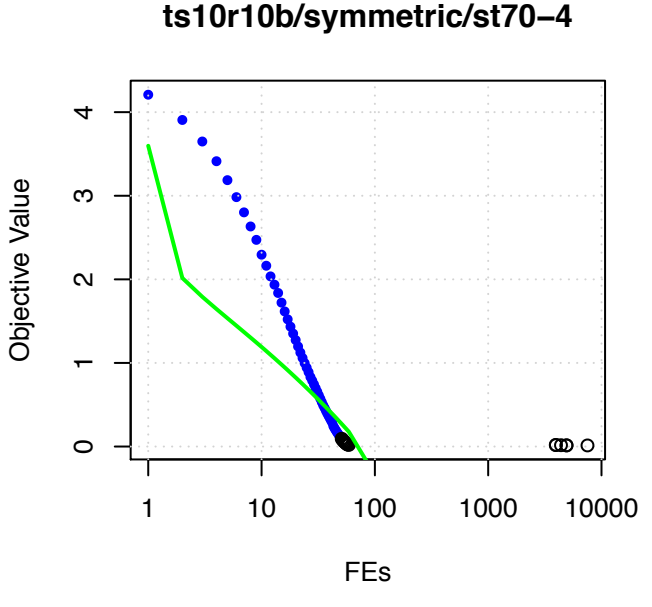
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Objective Value
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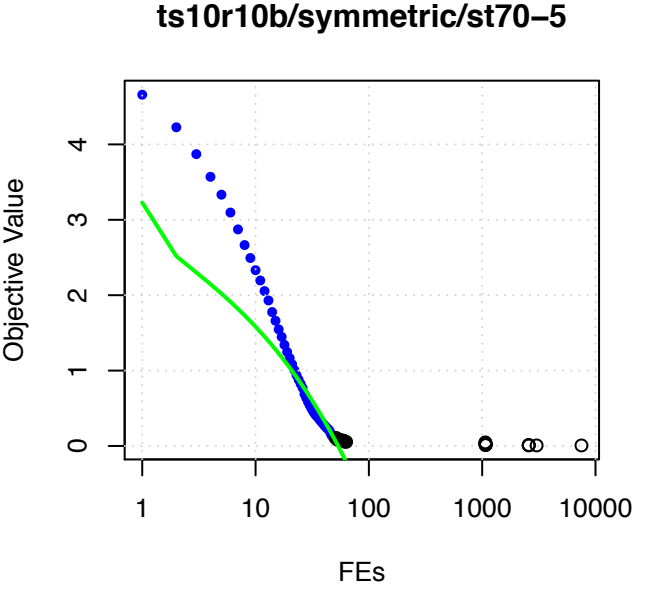
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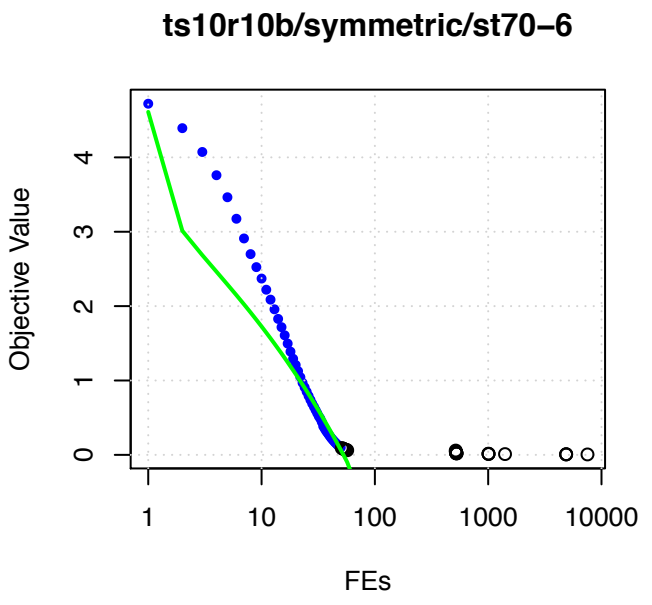
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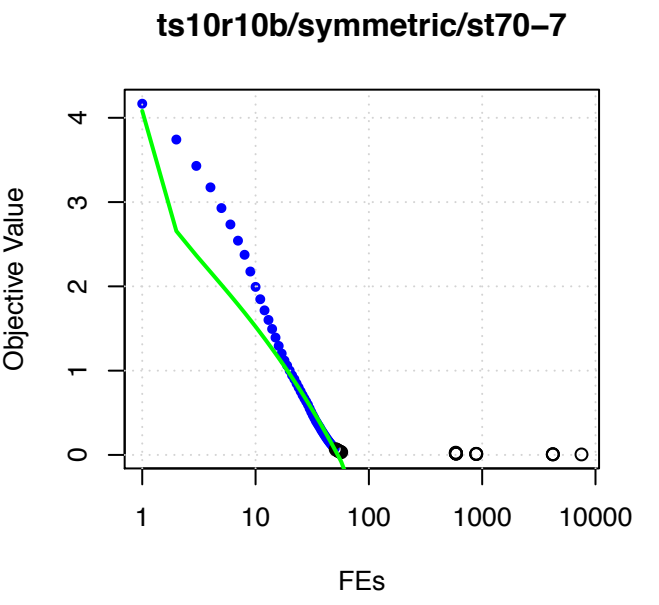
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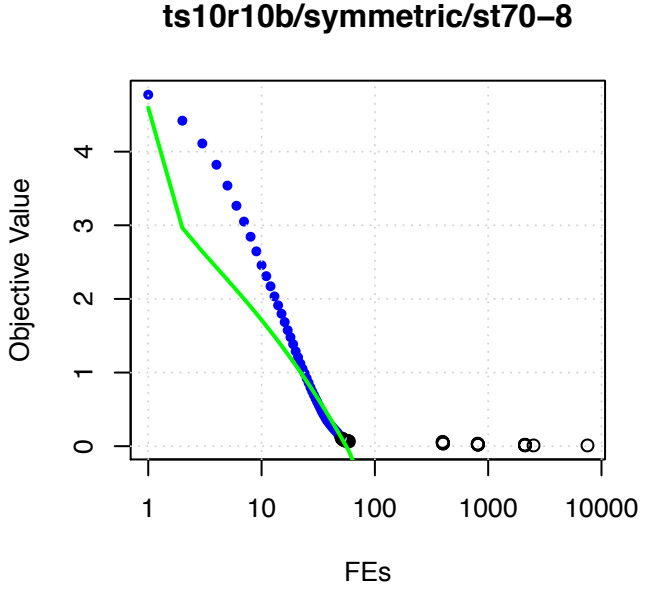
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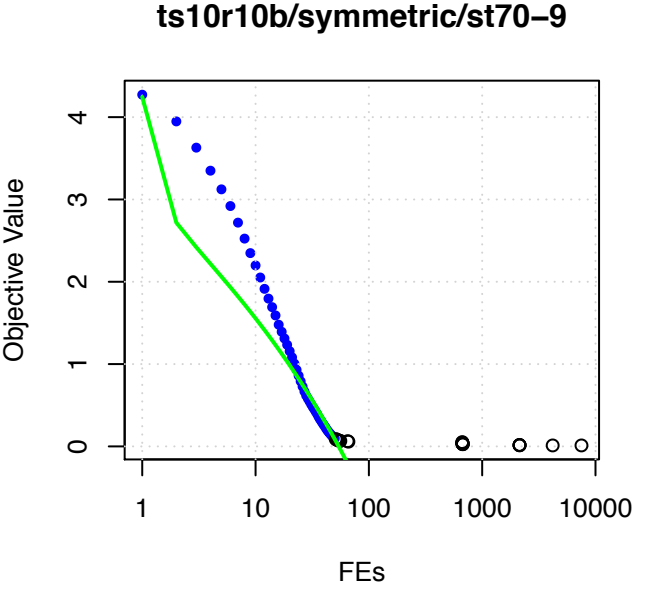
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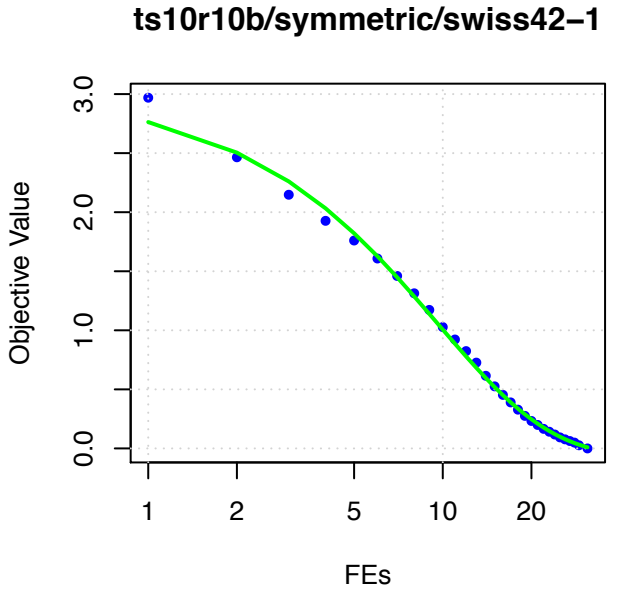
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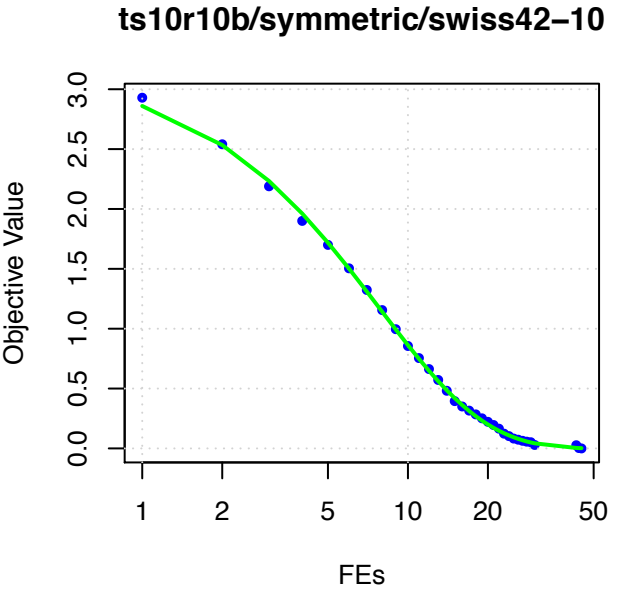
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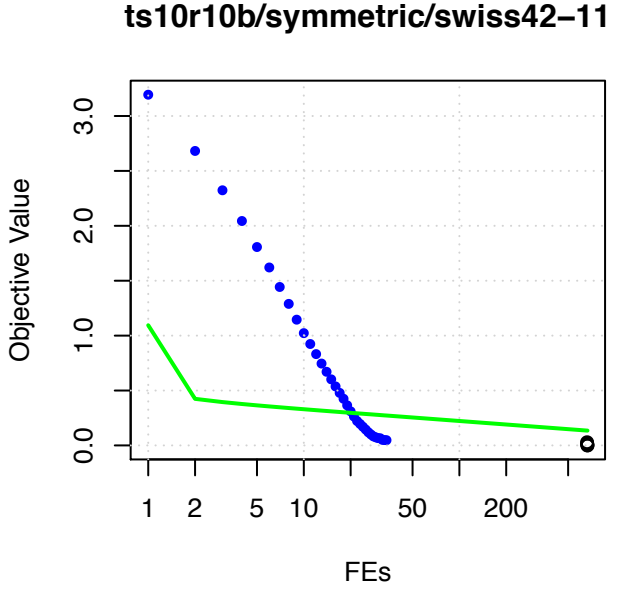
FEs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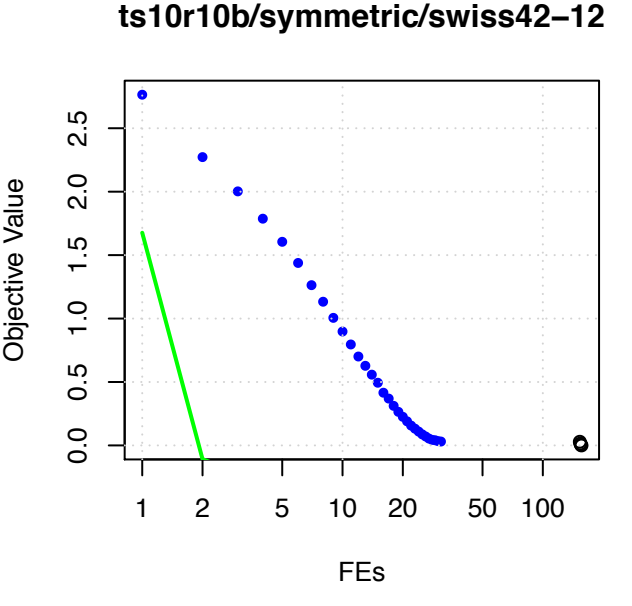
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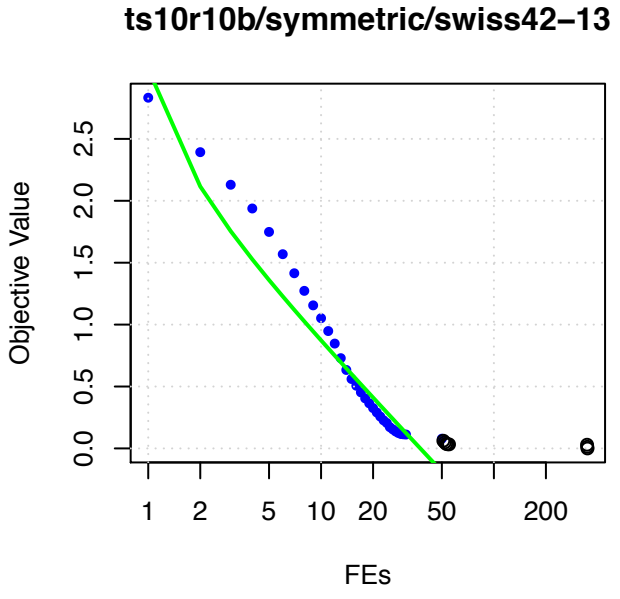
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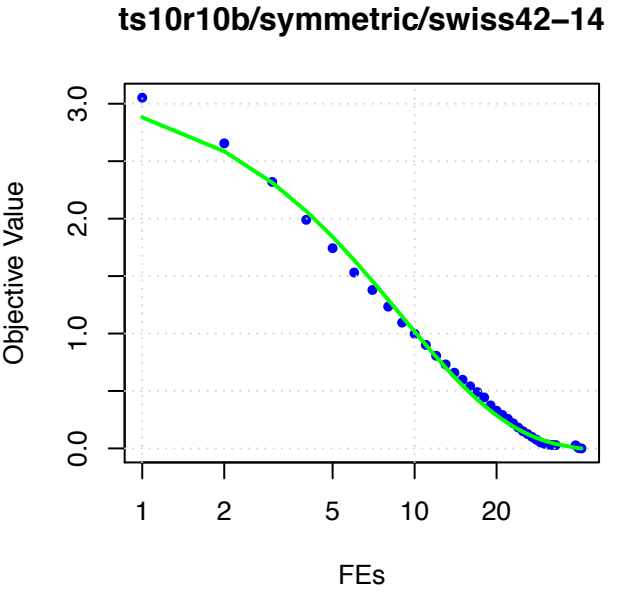
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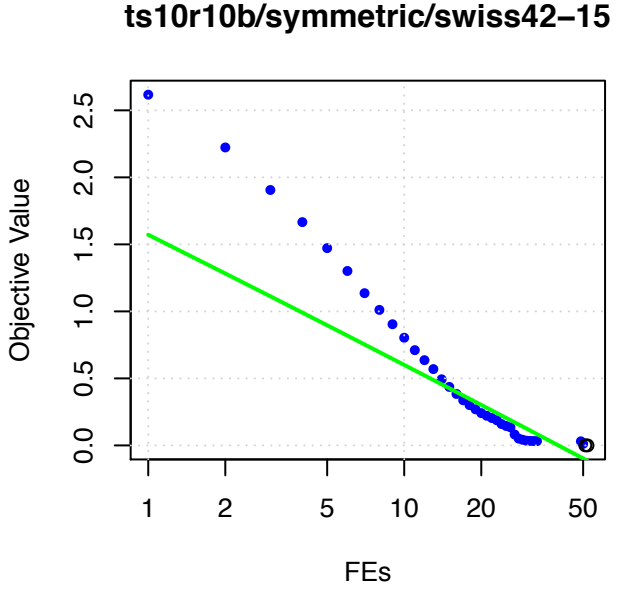
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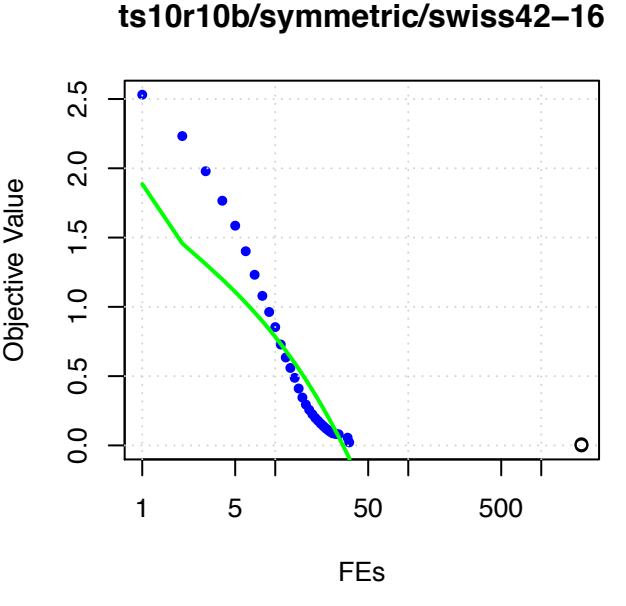
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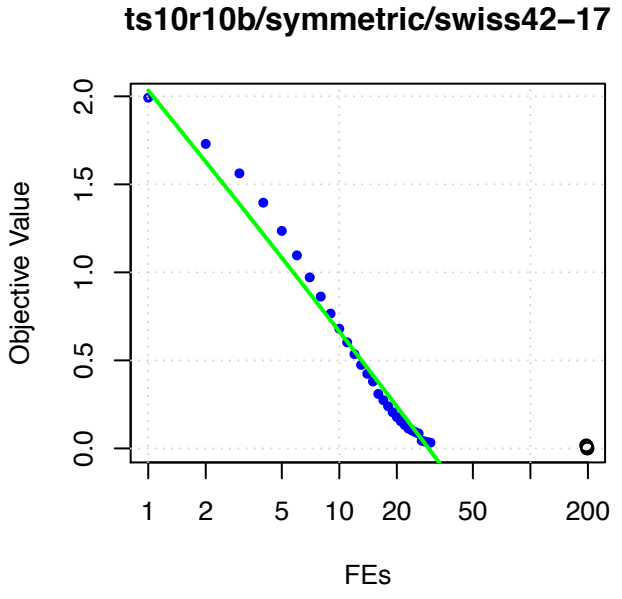
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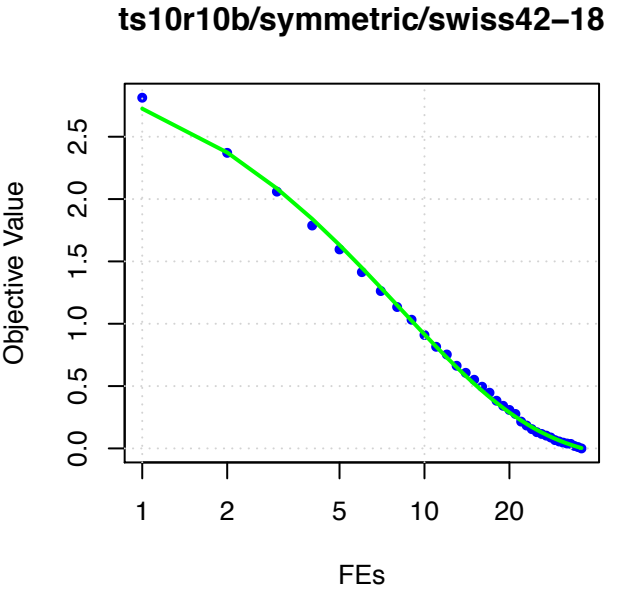
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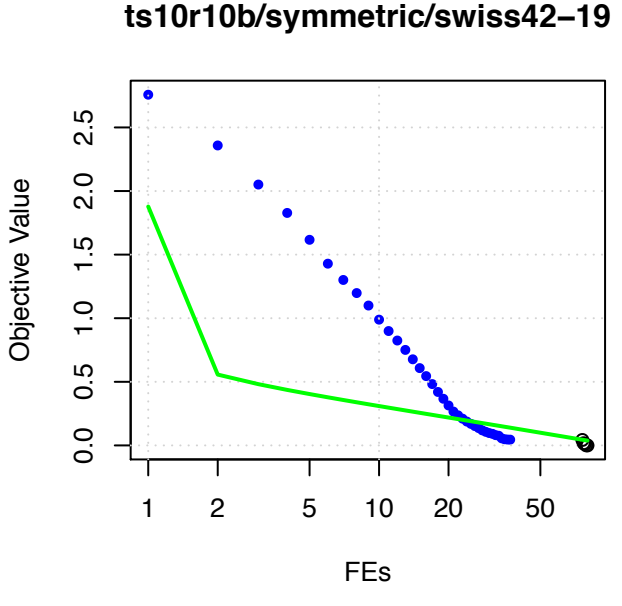
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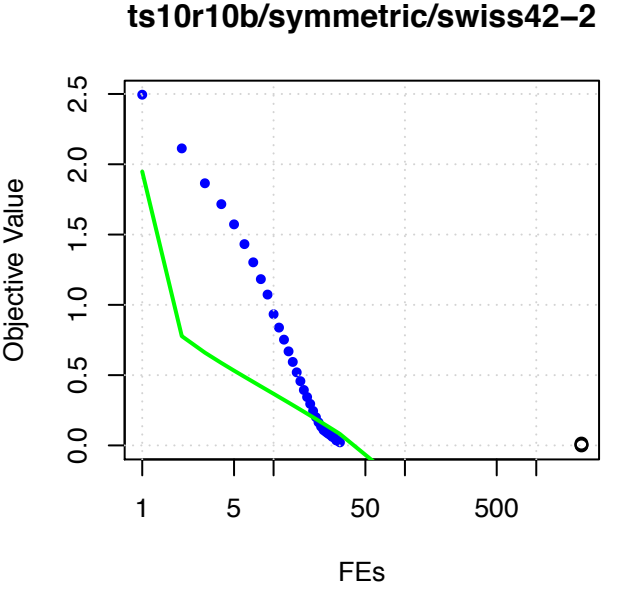
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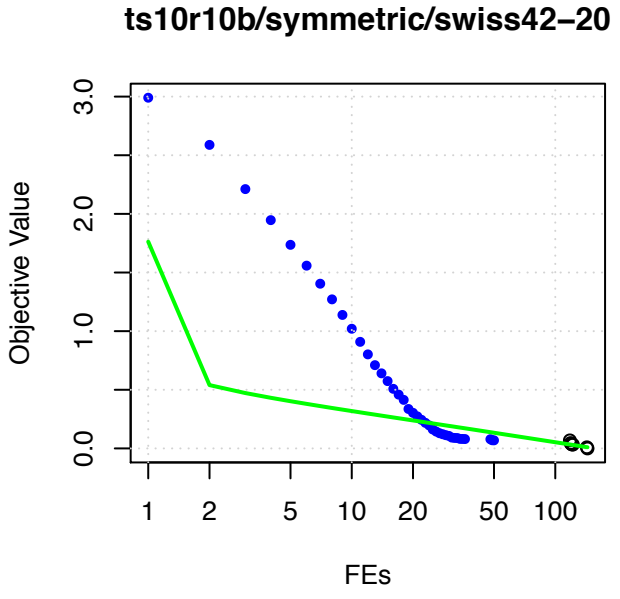
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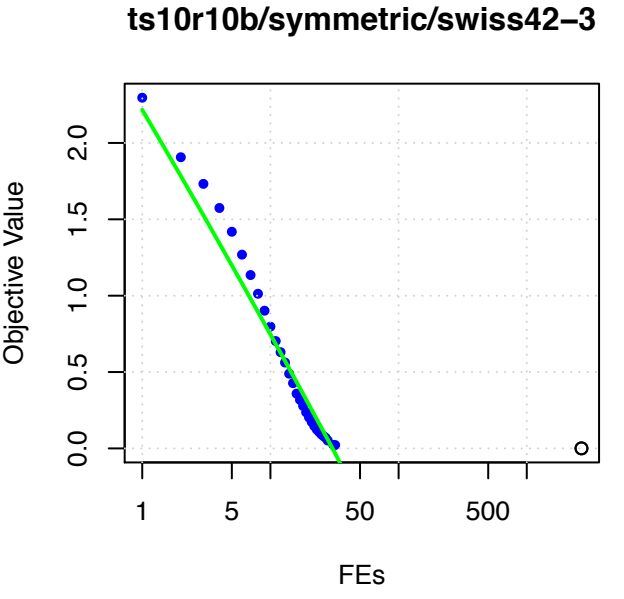
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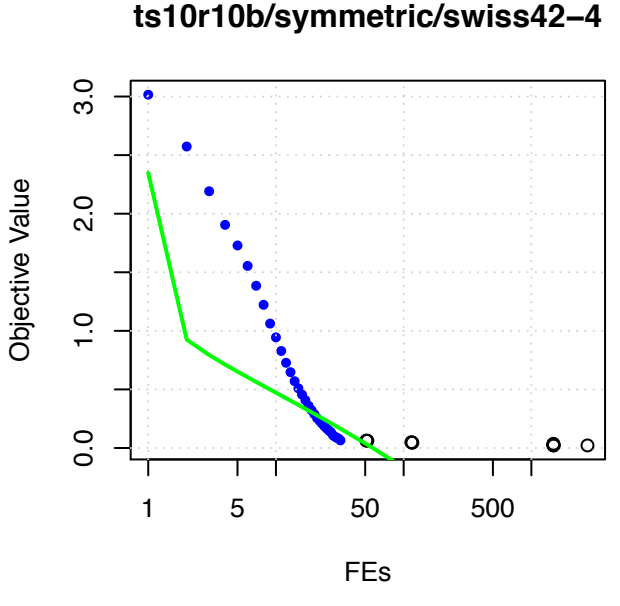
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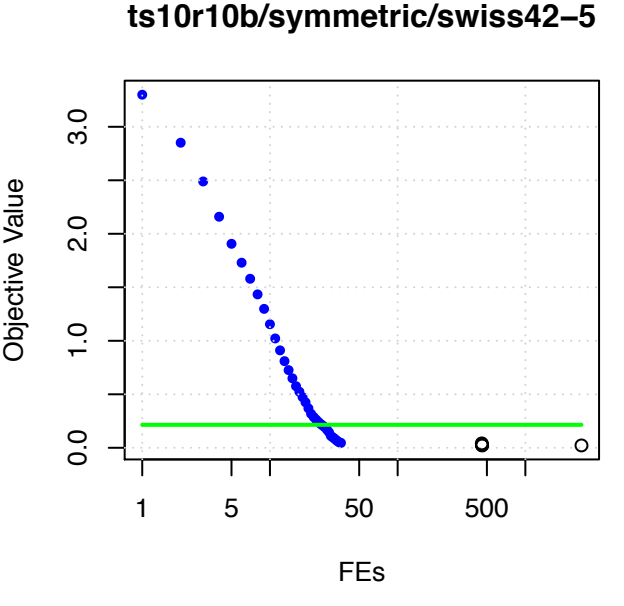
FEs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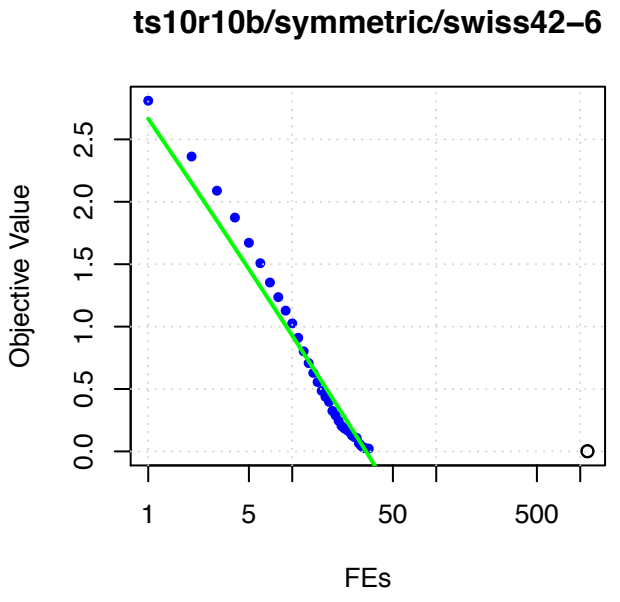
FEs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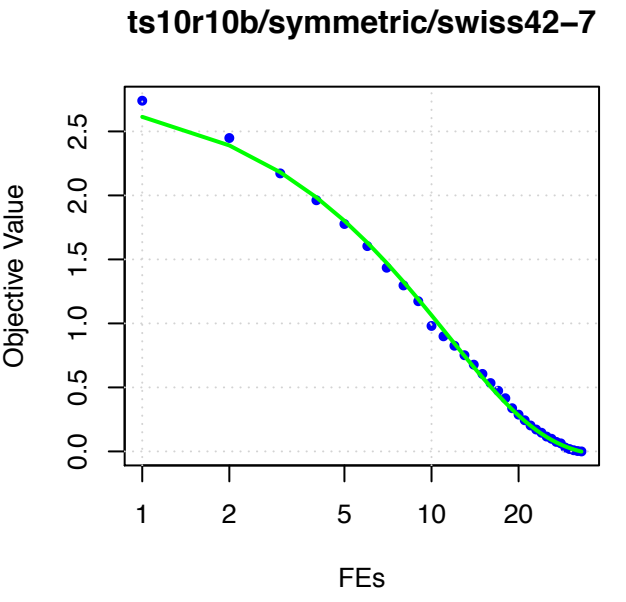
FEs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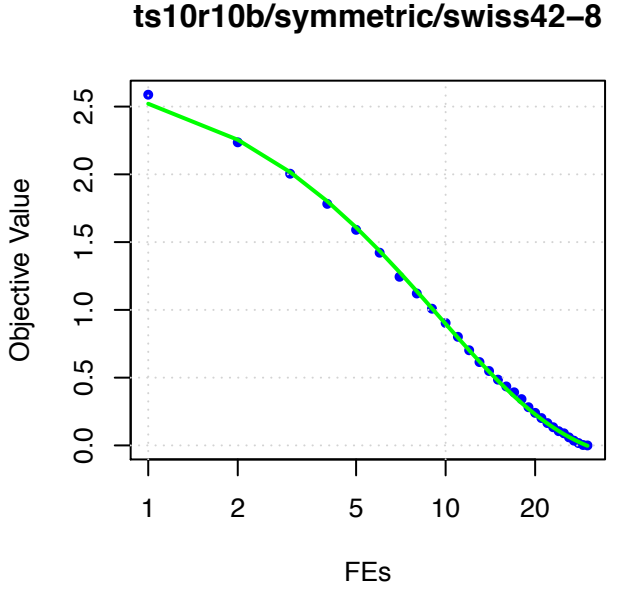
FEs


ts10r10b/symmetric/swiss42−8
Objective Value
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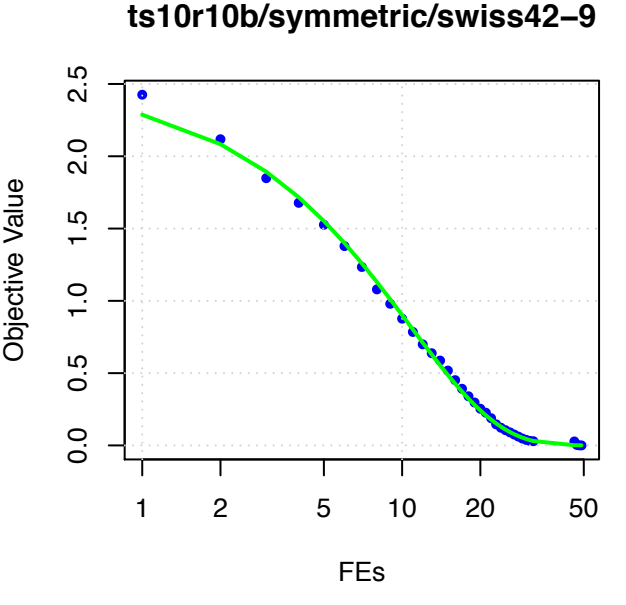
20
FEs


ts10r10b/symmetric/swiss42−9
Objective Value
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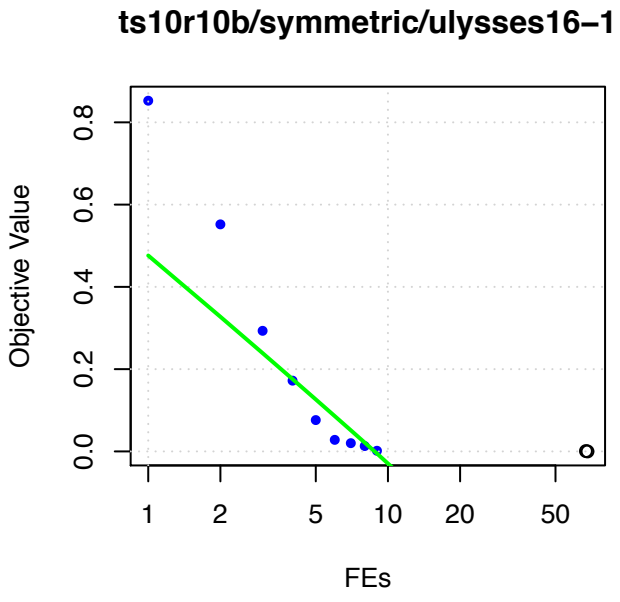
0.5
1.0
1.5
2.0
2.5
1
2
5
10
20
50
FEs


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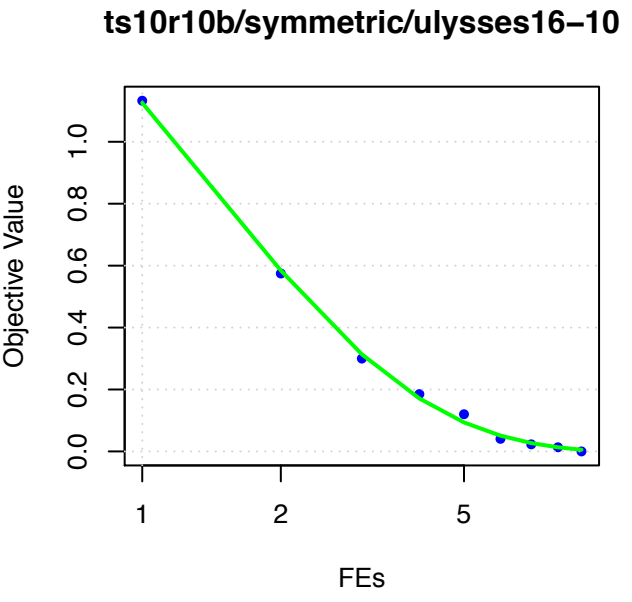
0.2
0.4
0.6
0.8
1
2
5
10
20
50
FEs


ts10r10b/symmetric/ulysses16−10
Objective Value
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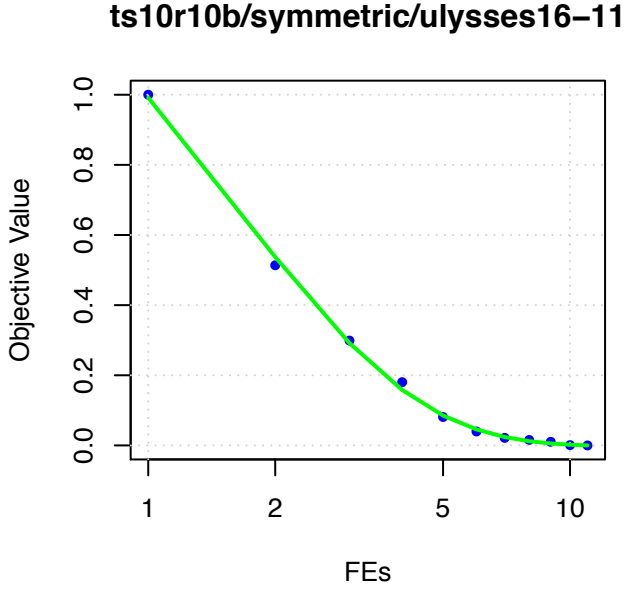
0.2
0.4
0.6
0.8
1.0
1
2
5
FEs


ts10r10b/symmetric/ulysses16−11
Objective Value
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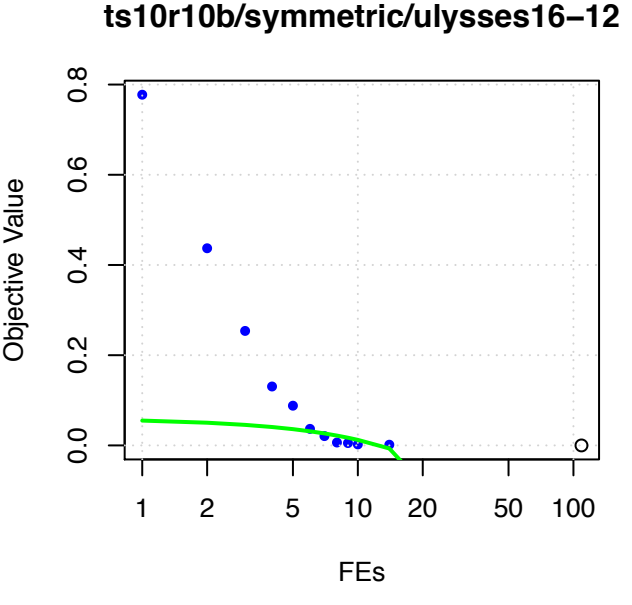
0.2
0.4
0.6
0.8
1.0
1
2
5
10
FEs


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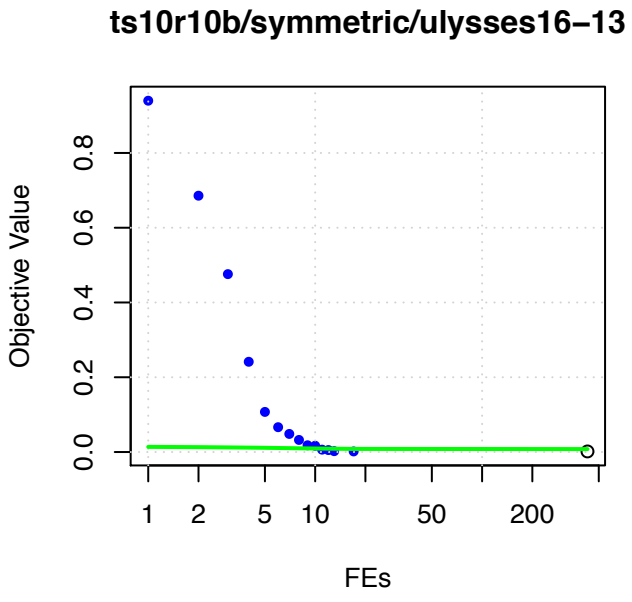
0.2
0.4
0.6
0.8
1
2
5
10
20
50
100
FEs


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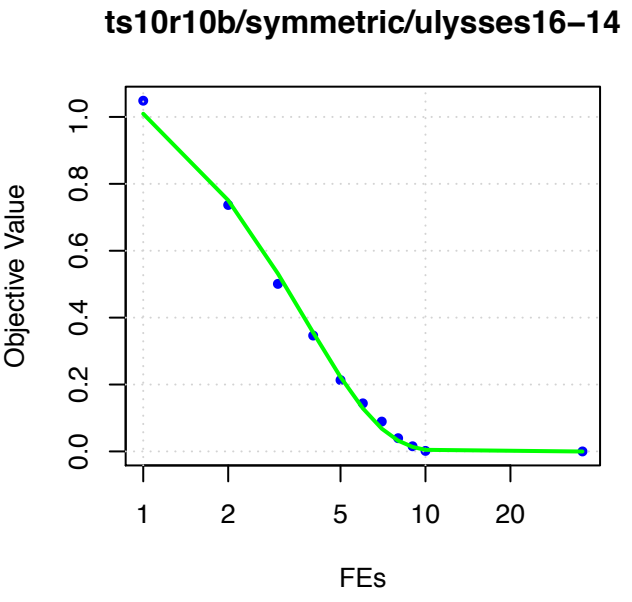
0.4
0.6
0.8
1
2
5
10
50
200
FEs


ts10r10b/symmetric/ulysses16−14
Objective Value
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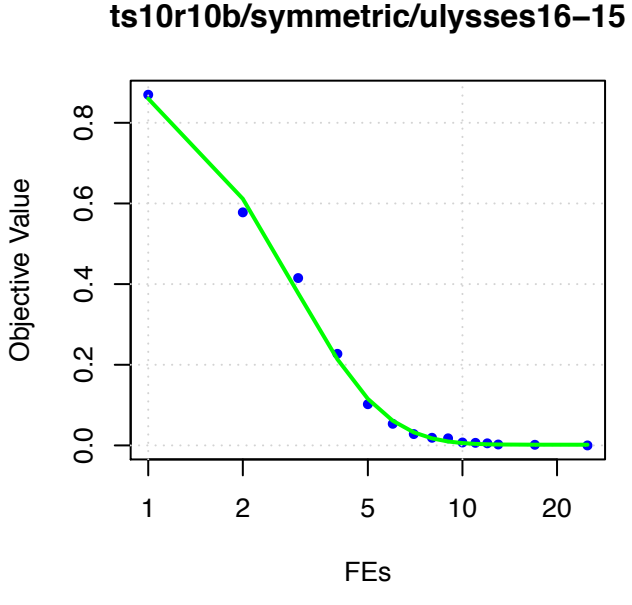
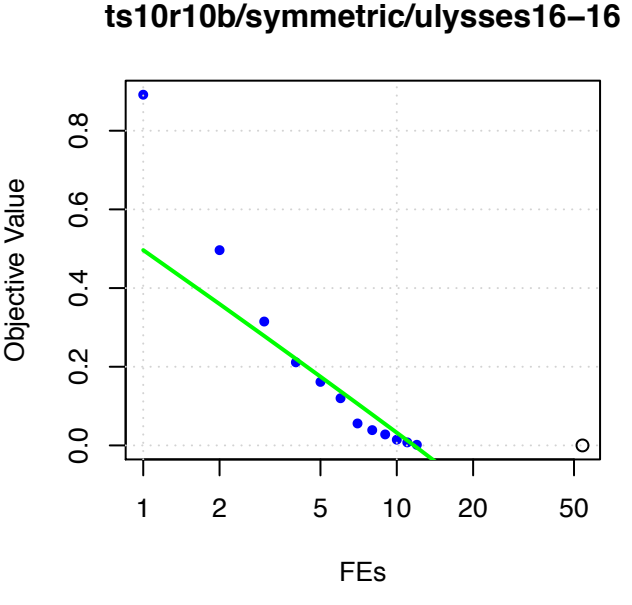
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
FEs


ts10r10b/symmetric/ulysses16−15
Objective Value
0.0
0.2
0.4
0.6
0.8
1
2
5
10
20
FEs


ts10r10b/symmetric/ulysses16−16
Objective Value
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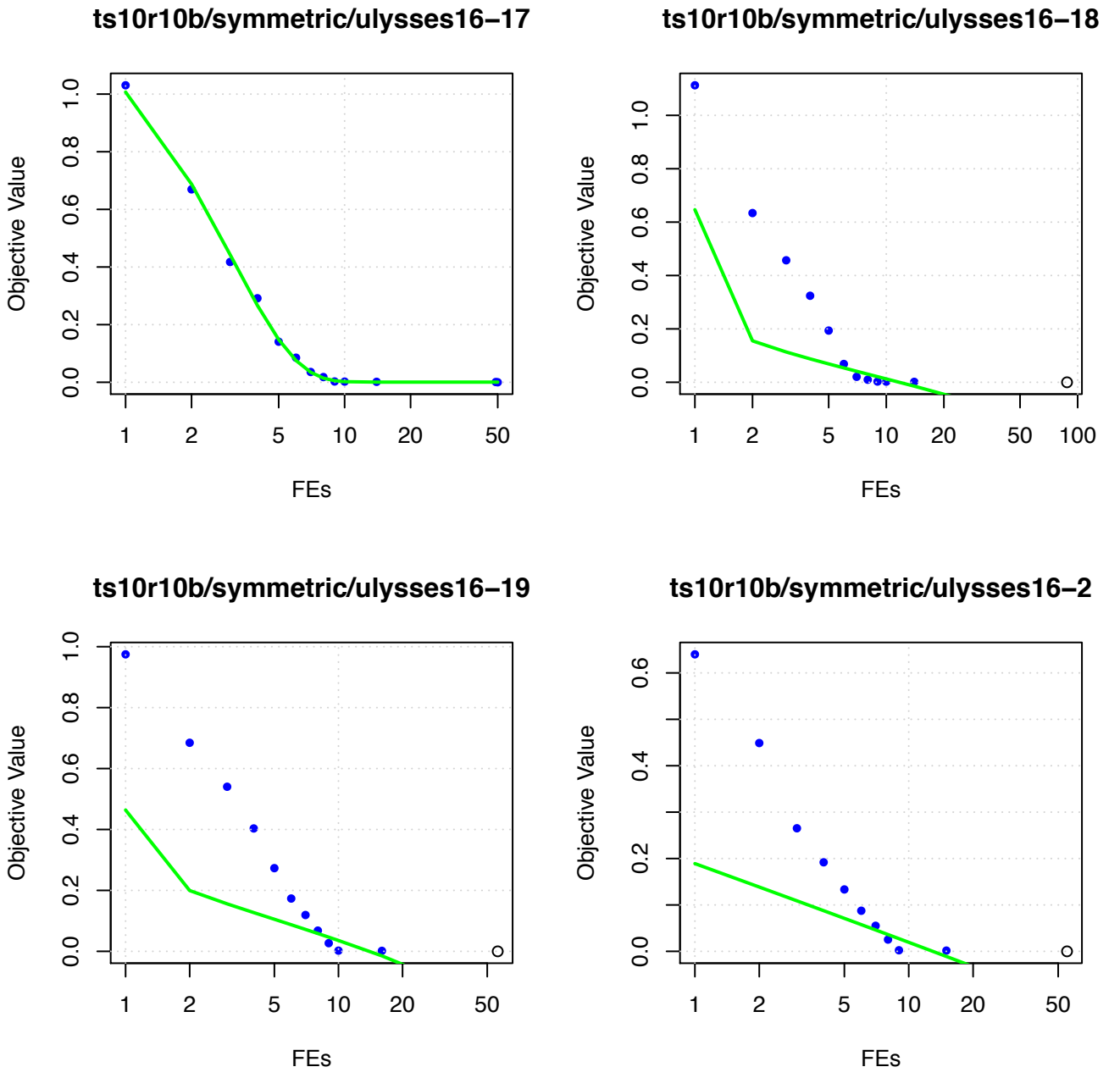
0.2
0.4
0.6
0.8
1
2
5
10
20
50
FEs


ts10r10b/symmetric/ulysses16−17
ts10r10b/symmetric/ulysses16−18
ts10r10b/symmetric/ulysses16−19
ts10r10b/symmetric/ulysses16−2
Objective Value
FEs
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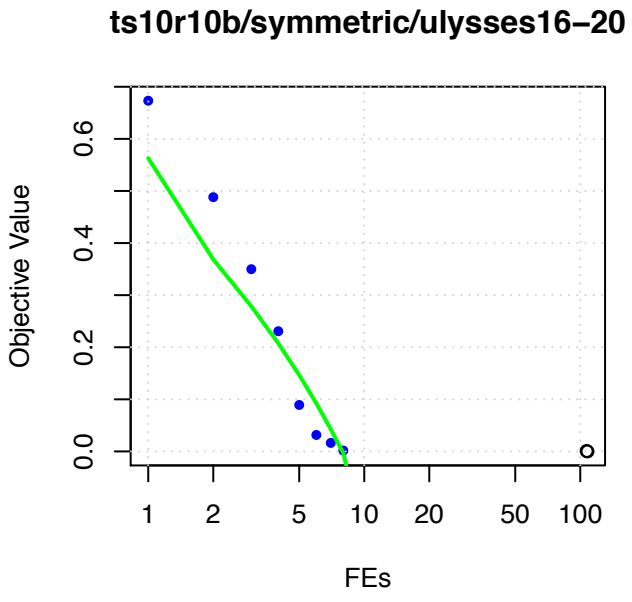
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
50
100


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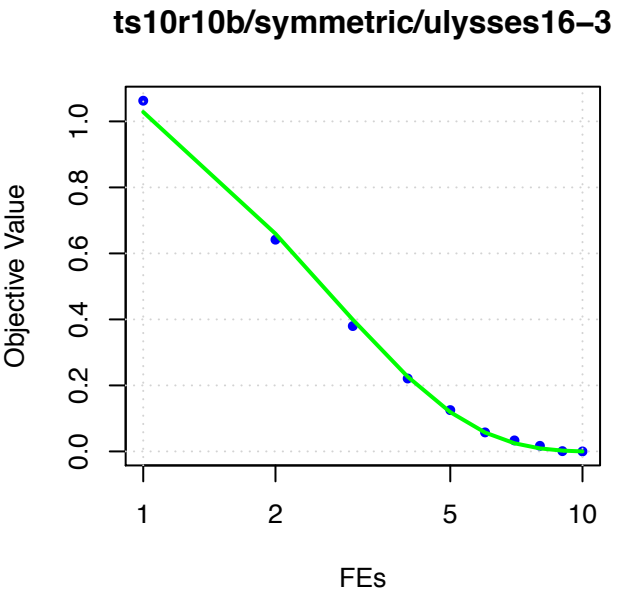
0.2
0.4
0.6
1
2
5
10
20
50
100
FEs


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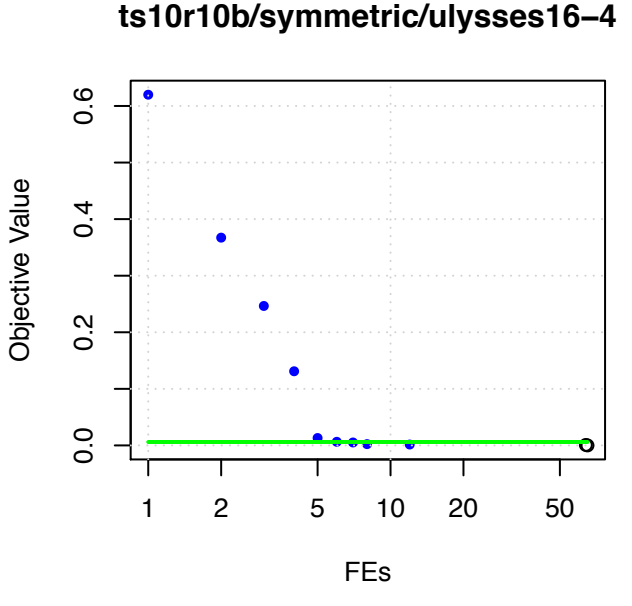
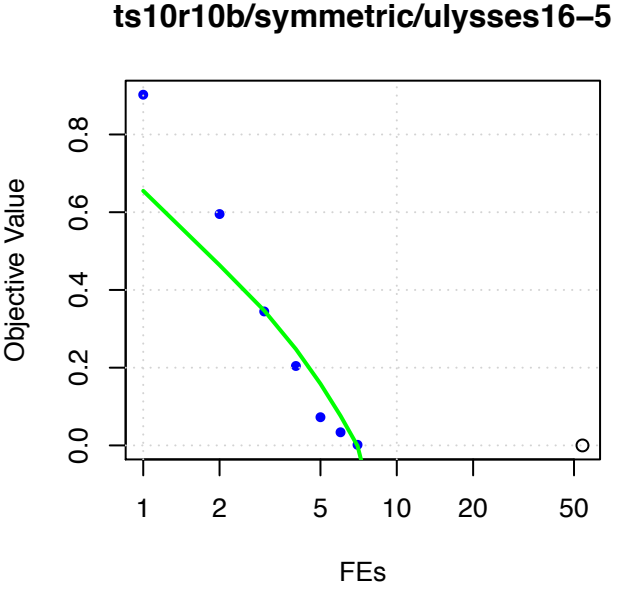
0.2
0.4
0.6
0.8
1.0
1
2
5
10
FEs


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


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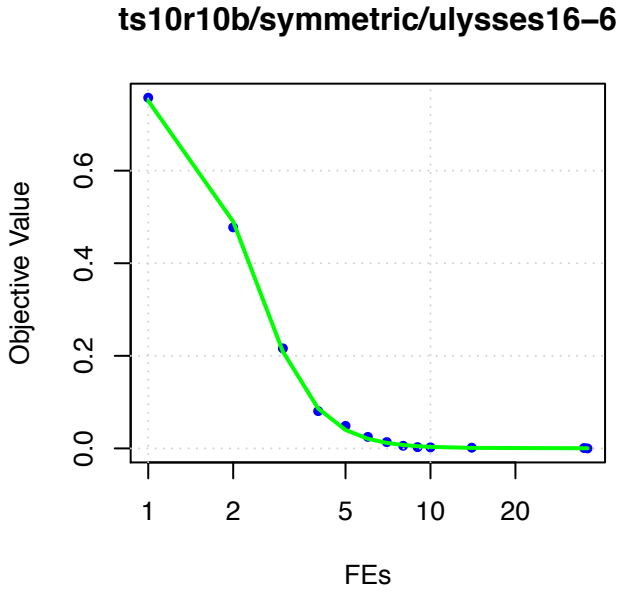
0.2
0.4
0.6
0.8
1
2
5
10
20
50
FEs


ts10r10b/symmetric/ulysses16−6
Objective Value
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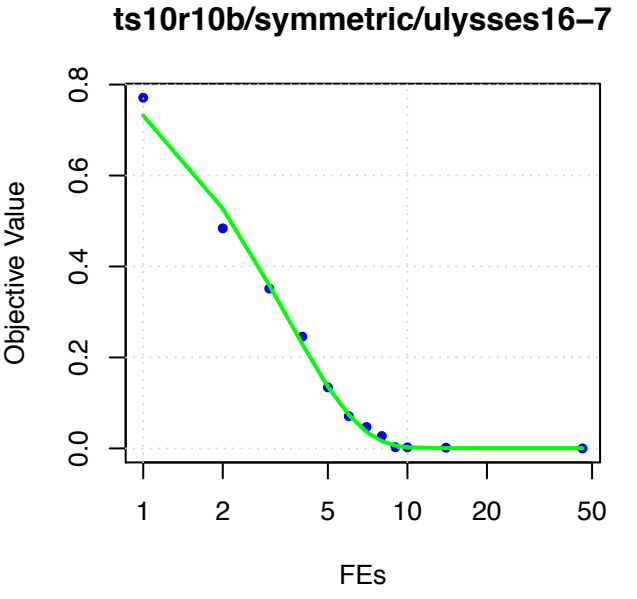
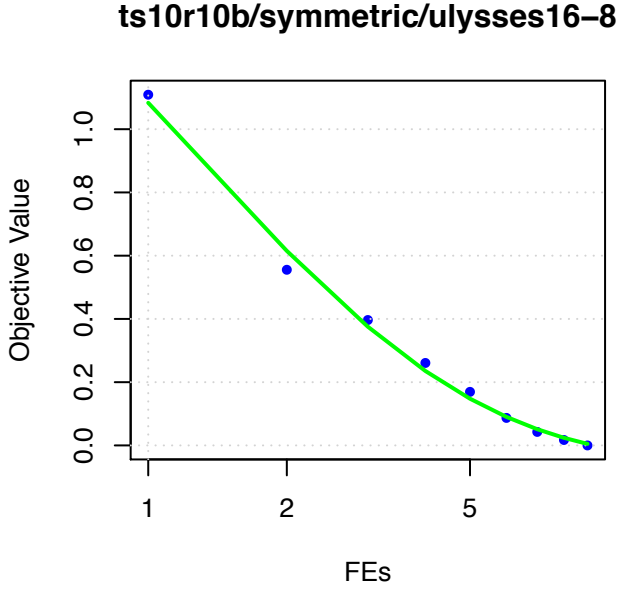
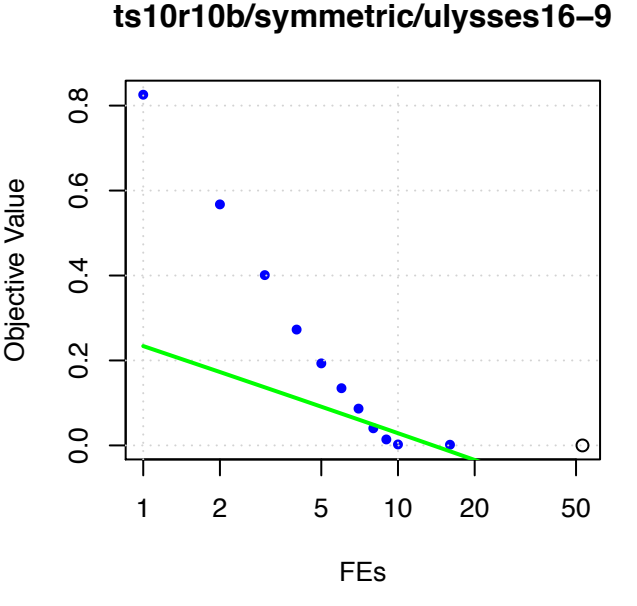
0.2
0.4
0.6
1
2
5
10
20
FEs


ts10r10b/symmetric/ulysses16−7
Objective Value
0.0
0.2
0.4
0.6
0.8
1
2
5
10
20
50
FEs


ts10r10b/symmetric/ulysses16−8
Objective Value
0.0
0.2
0.4
0.6
0.8
1.0
1
2
5
FEs


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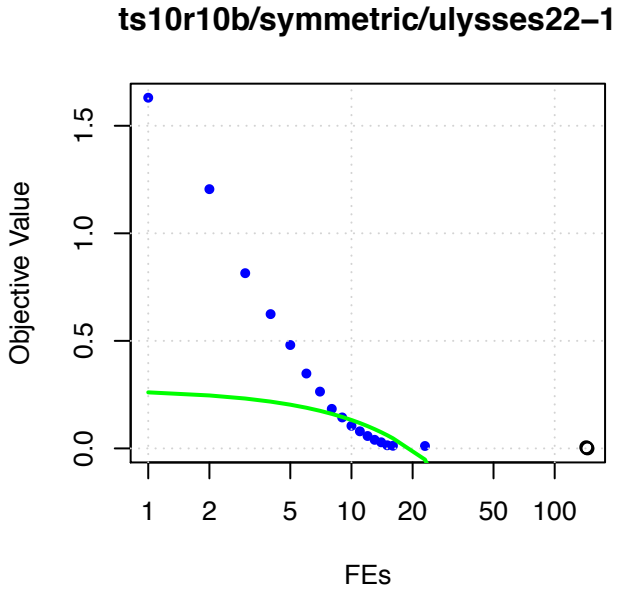
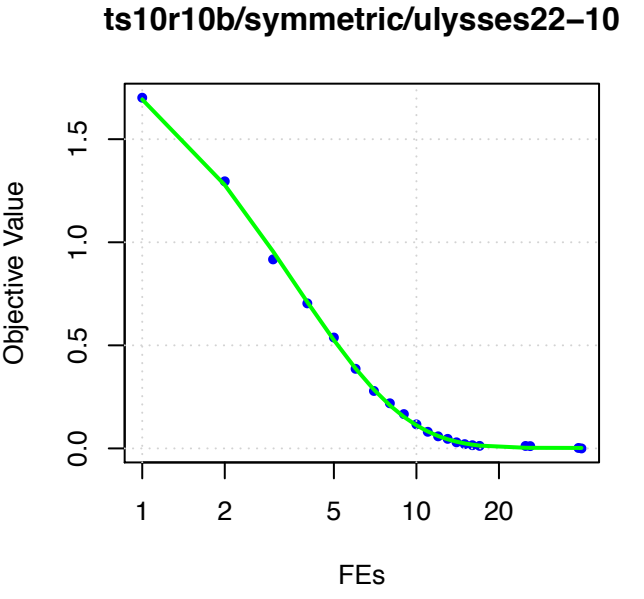
0.2
0.4
0.6
0.8
1
2
5
10
20
50
FEs


ts10r10b/symmetric/ulysses22−1
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
100
FEs


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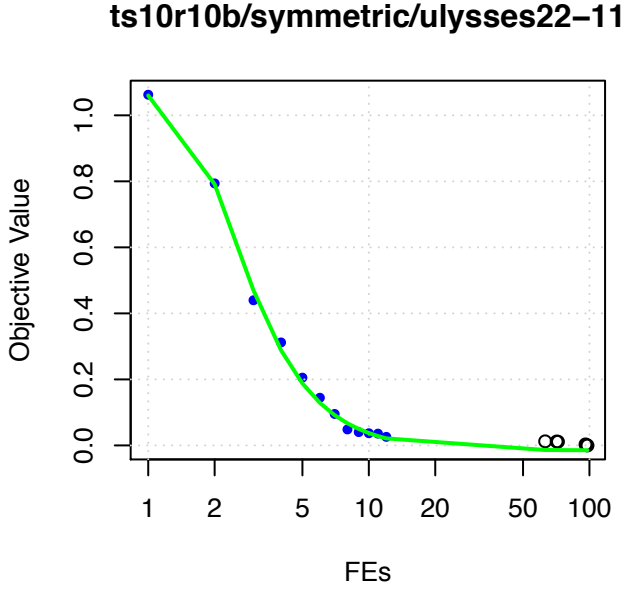
0.5
1.0
1.5
1
2
5
10
20
FEs


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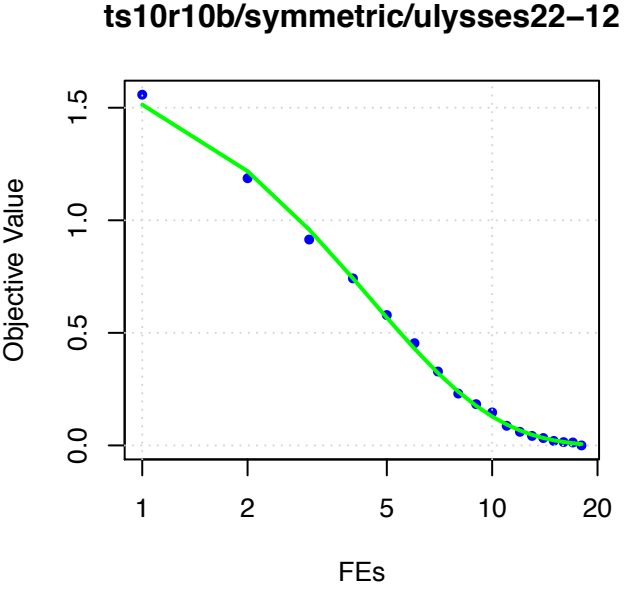
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
50
100
FEs


ts10r10b/symmetric/ulysses22−12
Objective Value
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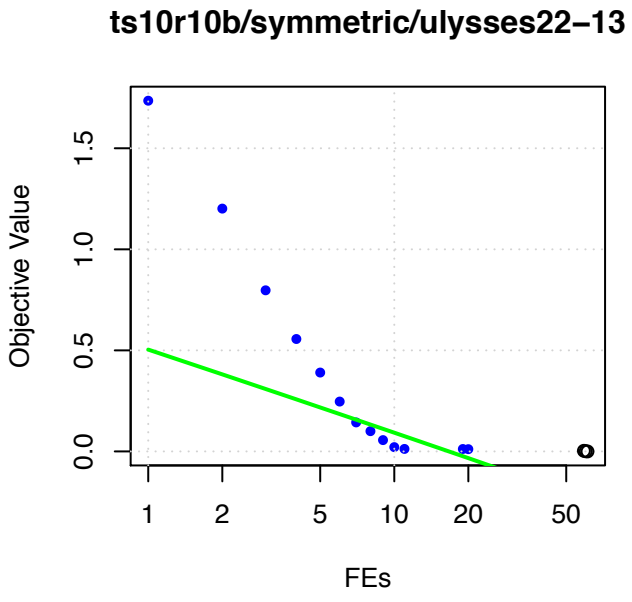
1.0
1.5
1
2
5
10
20
FEs


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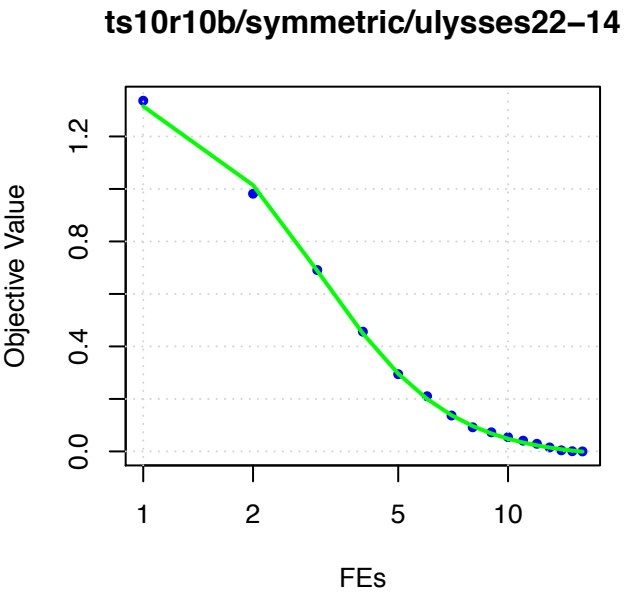
0.5
1.0
1.5
1
2
5
10
20
50
FEs


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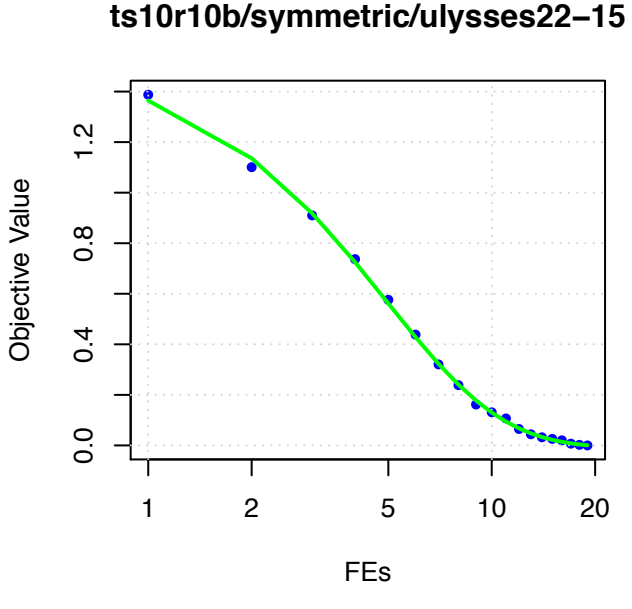
0.4
0.8
1.2
1
2
5
10
FEs


ts10r10b/symmetric/ulysses22−15
Objective Value
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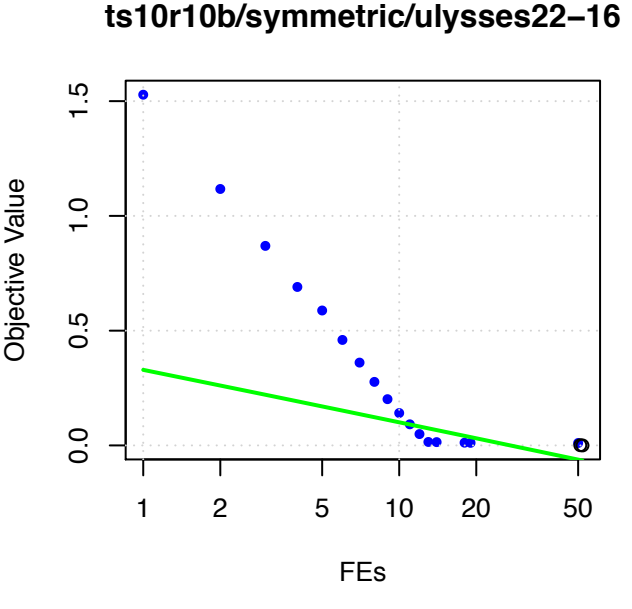
0.4
0.8
1.2
1
2
5
10
20
FEs


ts10r10b/symmetric/ulysses22−16
Objective Value
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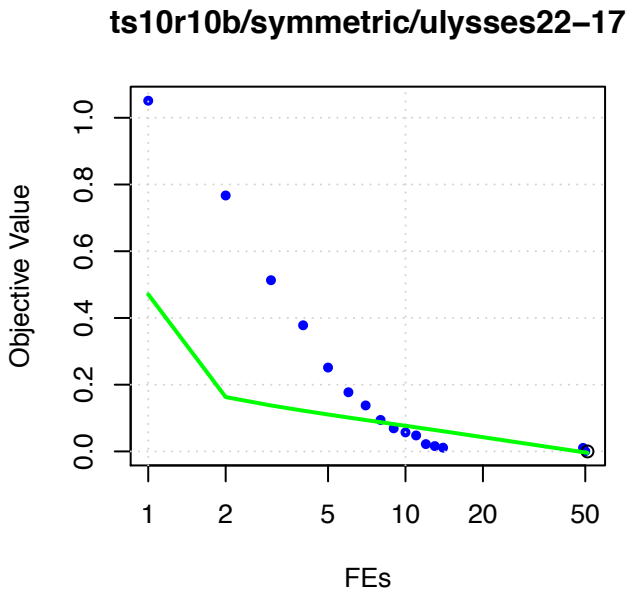
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts10r10b/symmetric/ulysses22−17
Objective Value
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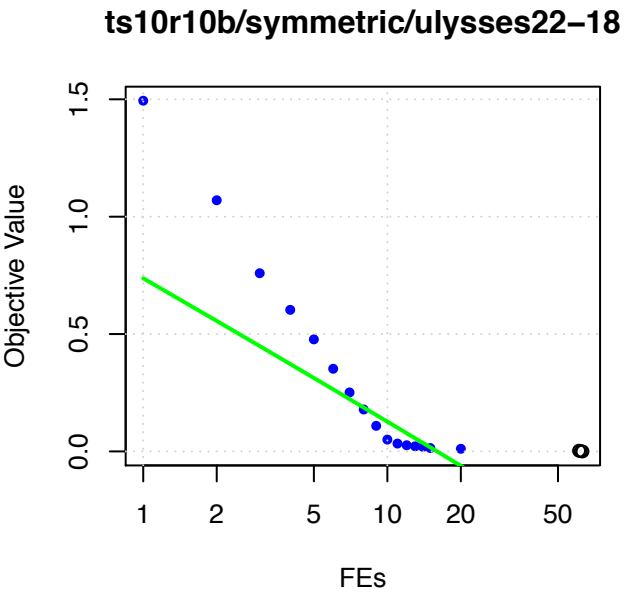
0.4
0.6
0.8
1.0
1
2
5
10
20
50
FEs


ts10r10b/symmetric/ulysses22−18
Objective Value
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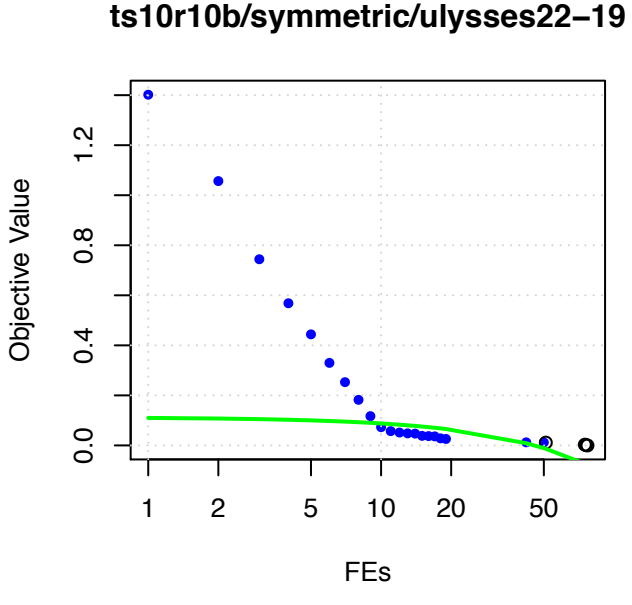
1.0
1.5
1
2
5
10
20
50
FEs


ts10r10b/symmetric/ulysses22−19
Objective Value
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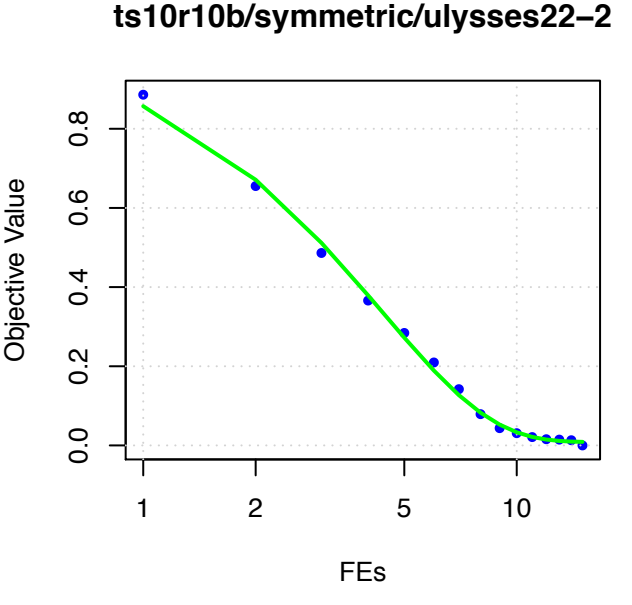
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts10r10b/symmetric/ulysses22−2
Objective Value
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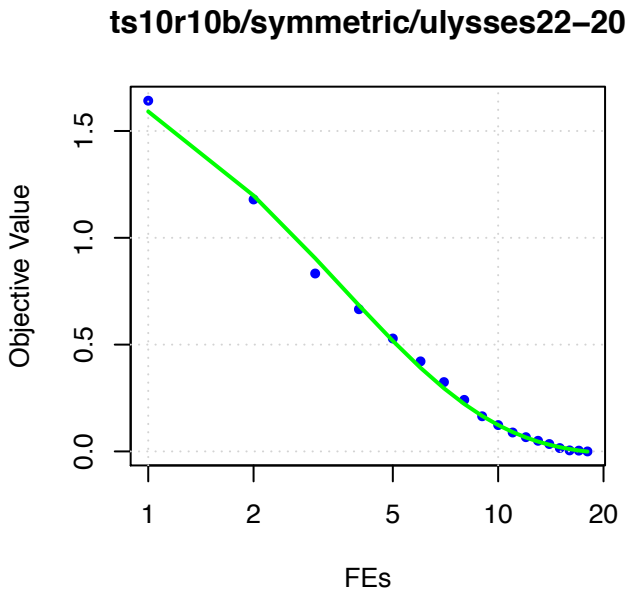
0.4
0.6
0.8
1
2
5
10
FEs


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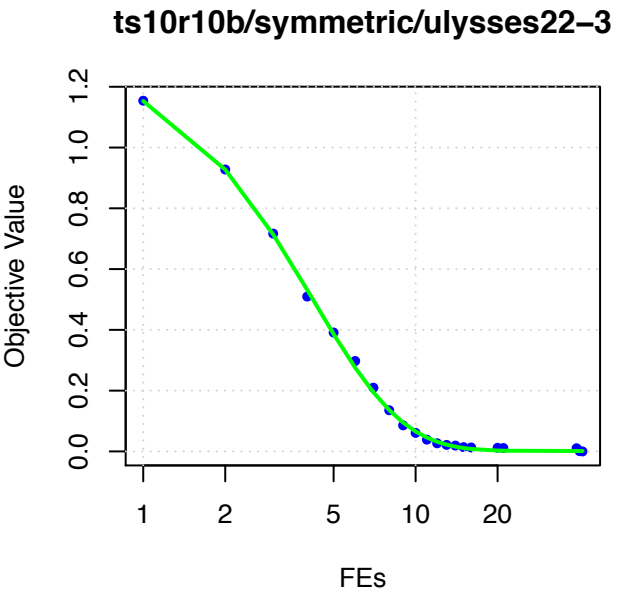
0.5
1.0
1.5
1
2
5
10
20
FEs


ts10r10b/symmetric/ulysses22−3
Objective Value
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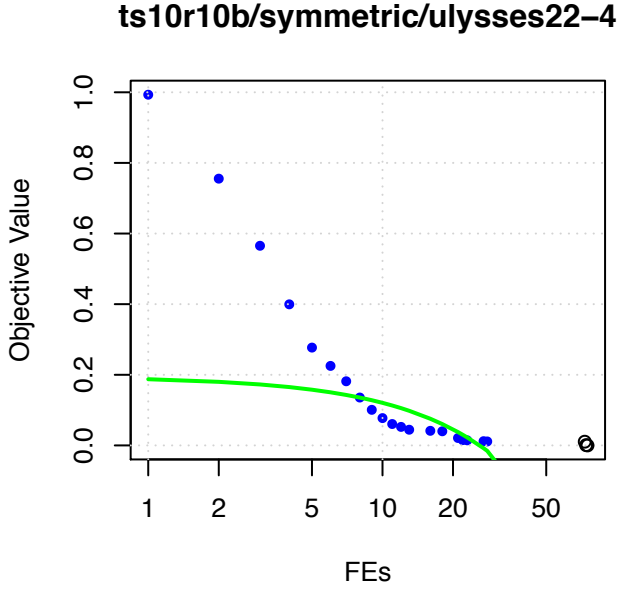
0.2
0.4
0.6
0.8
1.0
1.2
1
2
5
10
20
FEs


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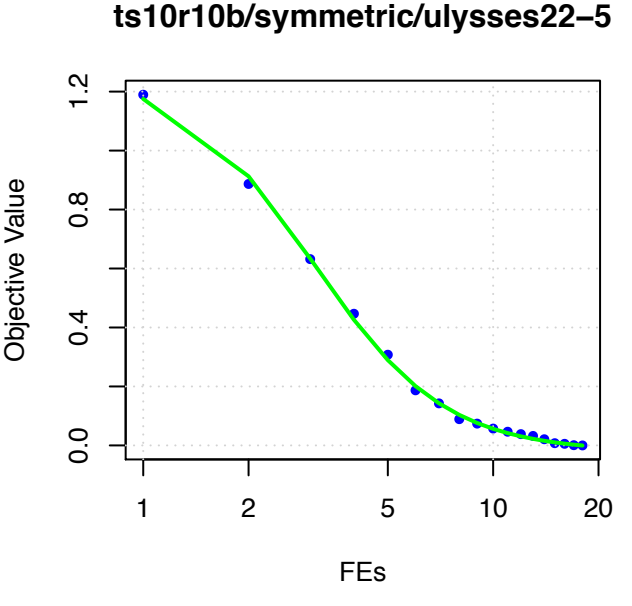
0.4
0.6
0.8
1.0
1
2
5
10
20
50
FEs


ts10r10b/symmetric/ulysses22−5
Objective Value
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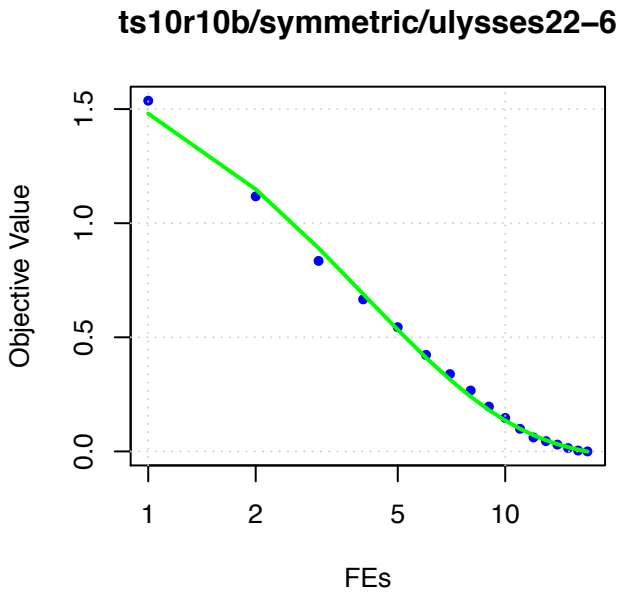
0.4
0.8
1.2
1
2
5
10
20
FEs


ts10r10b/symmetric/ulysses22−6
Objective Value
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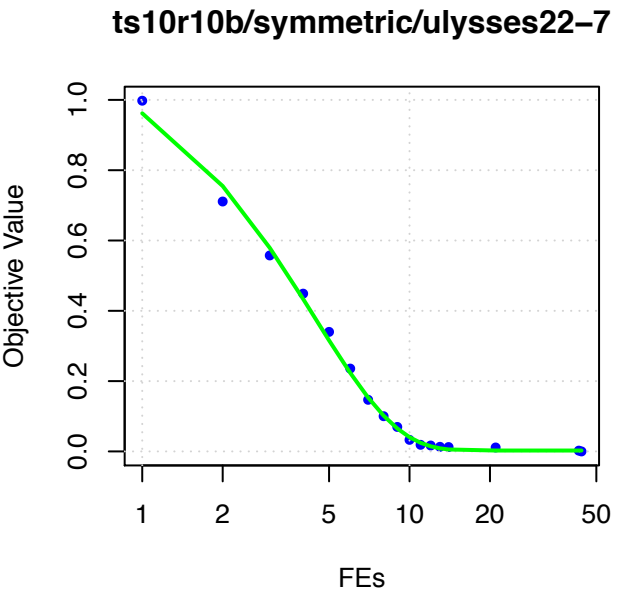
0.5
1.0
1.5
1
2
5
10
FEs


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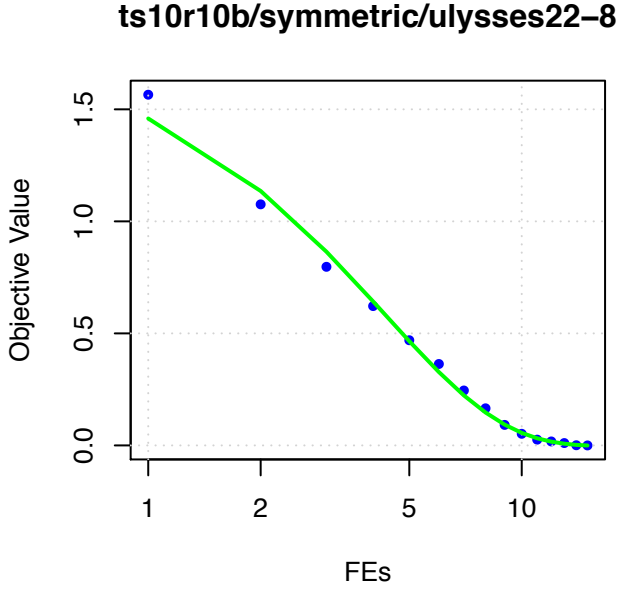
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
50
FEs


ts10r10b/symmetric/ulysses22−8
Objective Value
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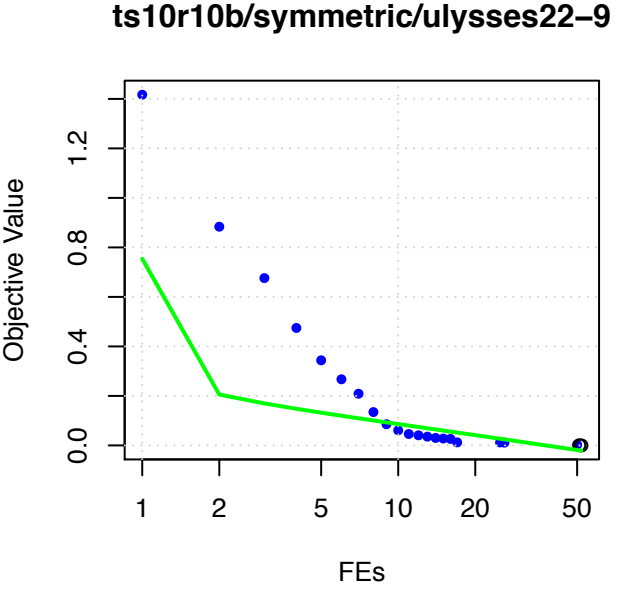
0.5
1.0
1.5
1
2
5
10
FEs


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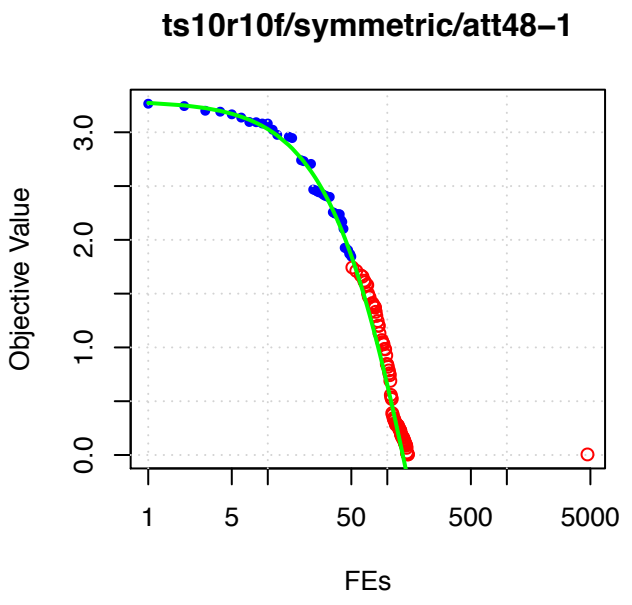
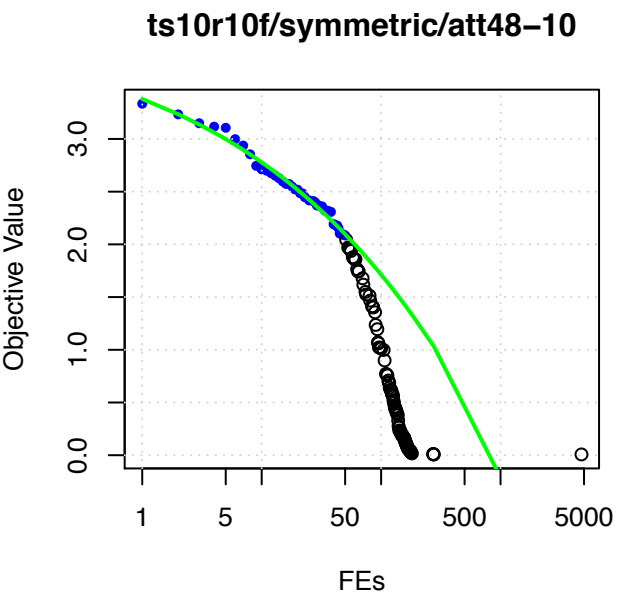
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts10r10f/symmetric/att48−1
Objective Value
0.0
1.0
2.0
3.0
1
5
50
500
5000
FEs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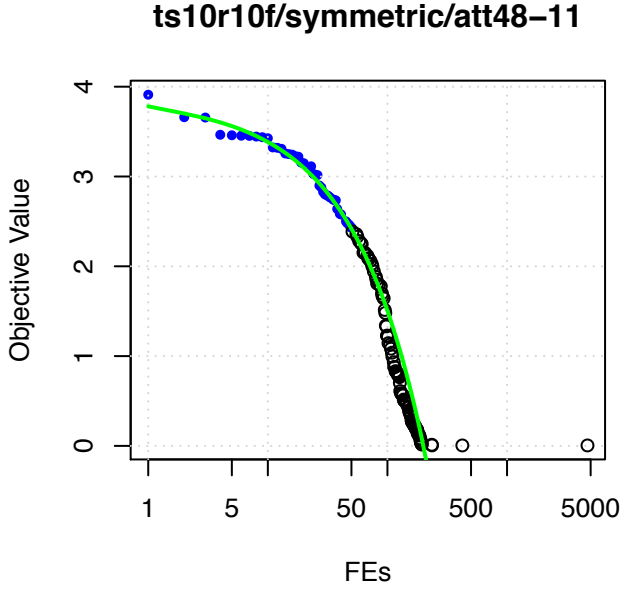
ts10r10f/symmetric/att48−11
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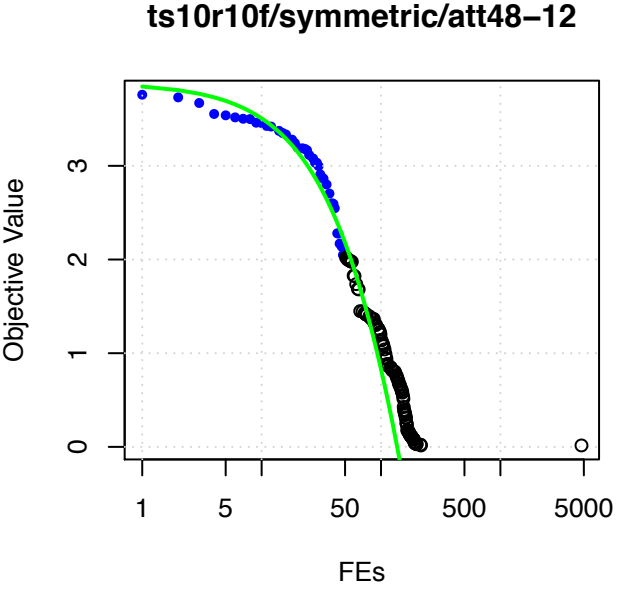
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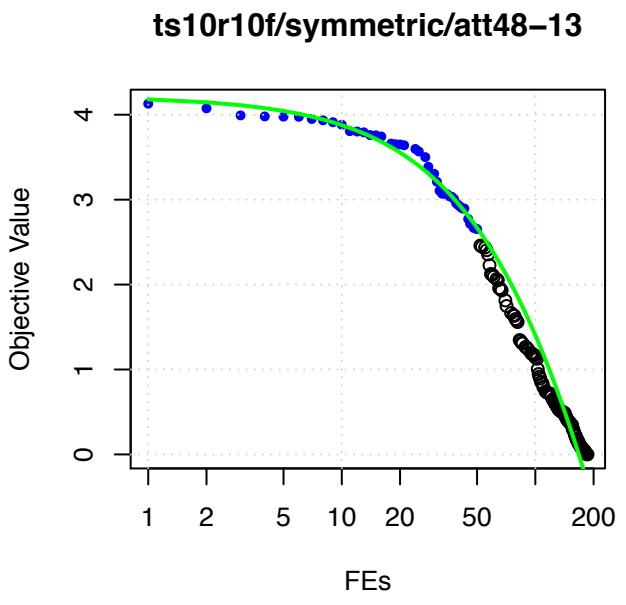
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Objective Value
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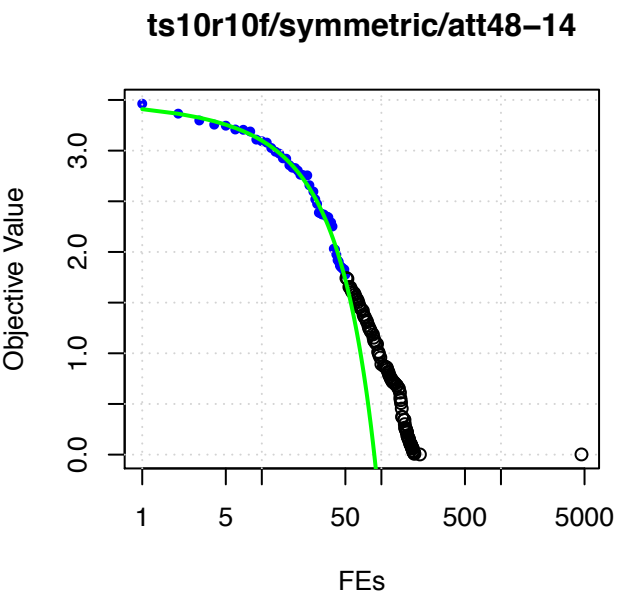
FEs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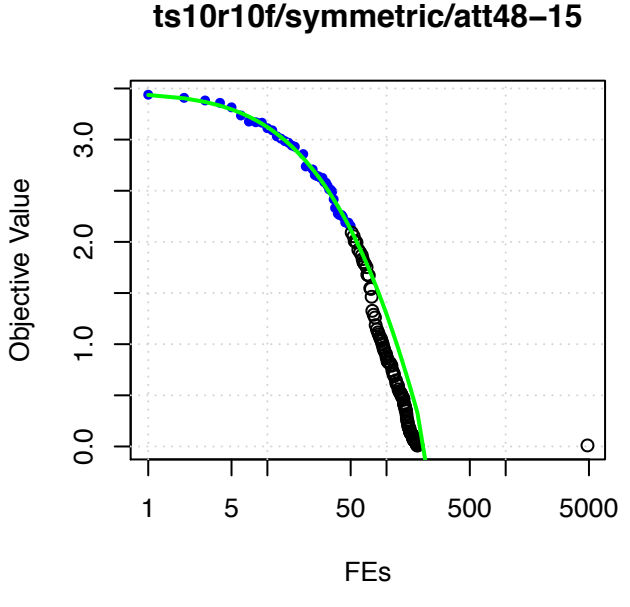
ts10r10f/symmetric/att48−15
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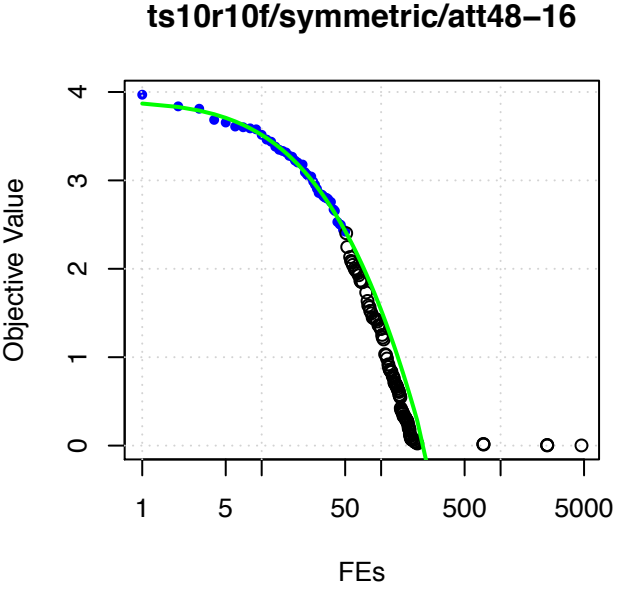
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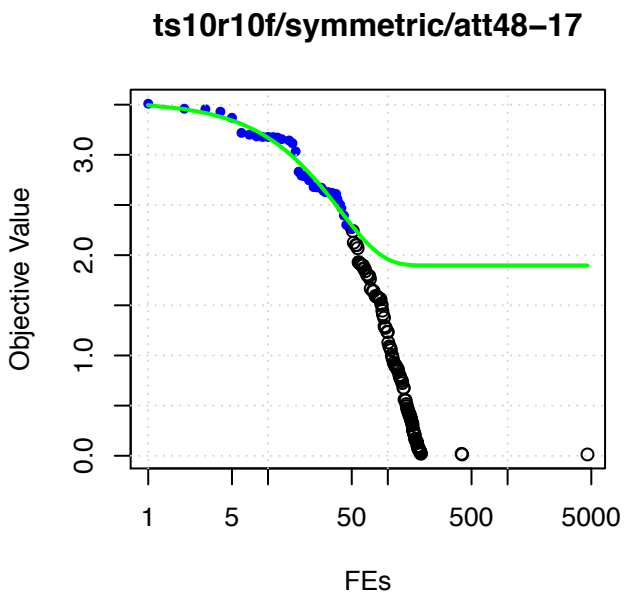
ts10r10f/symmetric/att48−17
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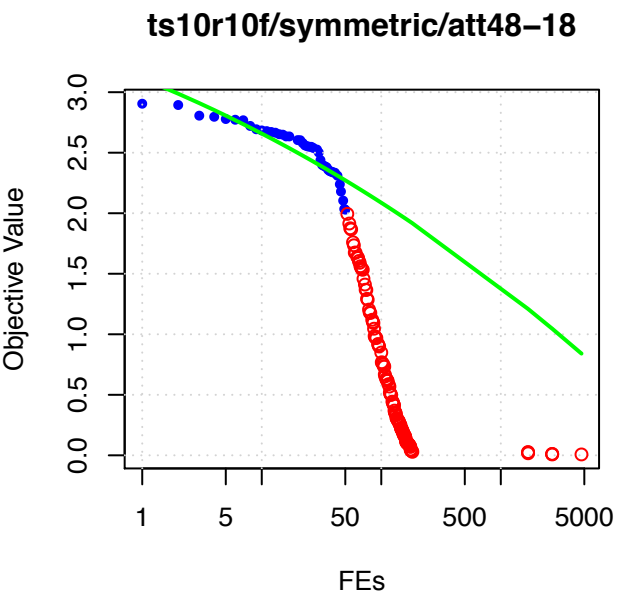
FEs


ts10r10f/symmetric/att48−18
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2.5
3.0
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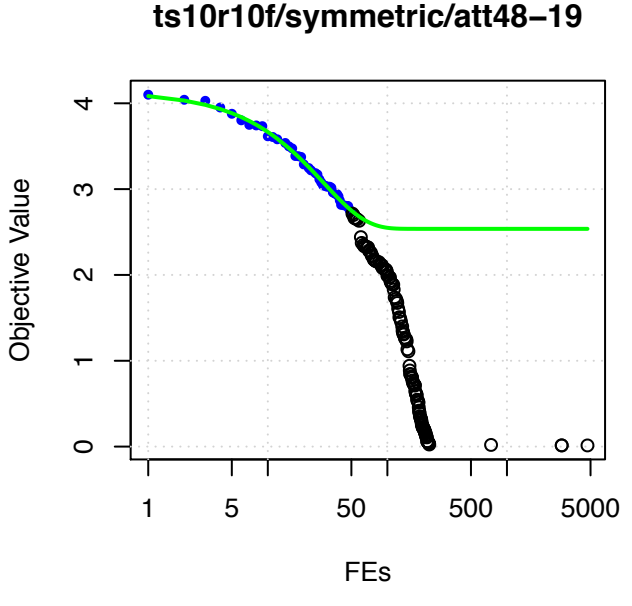
FEs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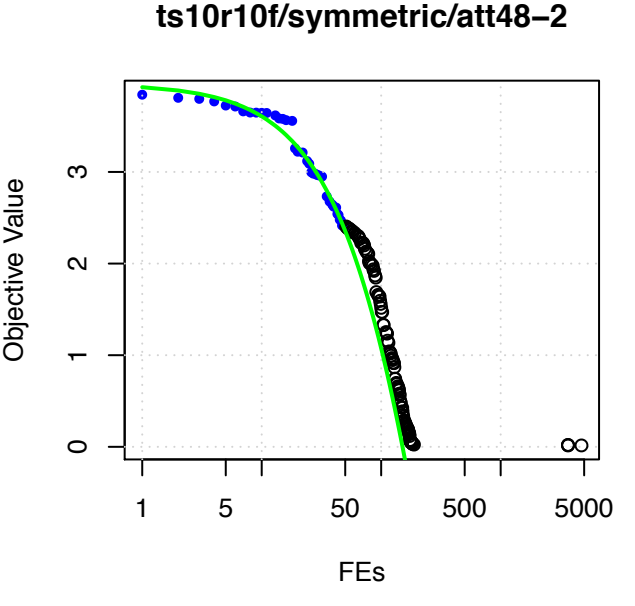
FEs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1
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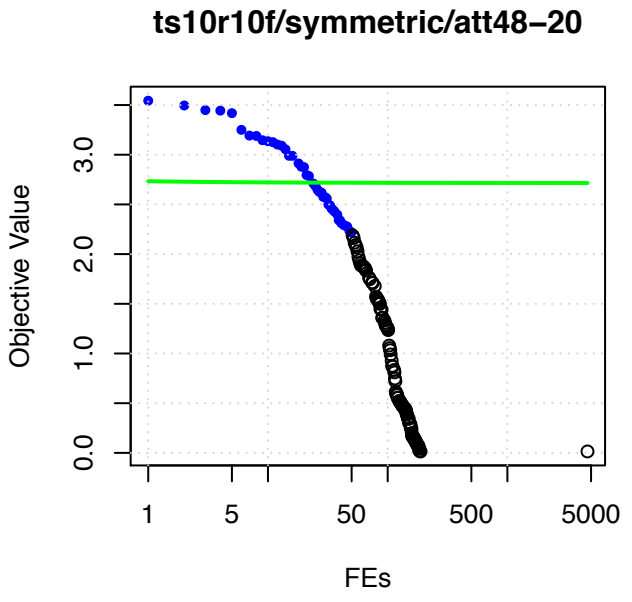
5000
FEs


ts10r10f/symmetric/att48−20
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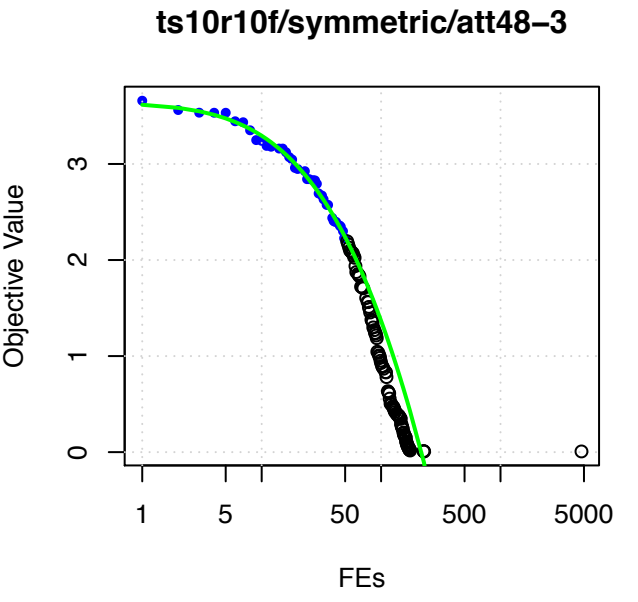
5000
FEs


ts10r10f/symmetric/att48−3
Objective Value
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2
3
1
5
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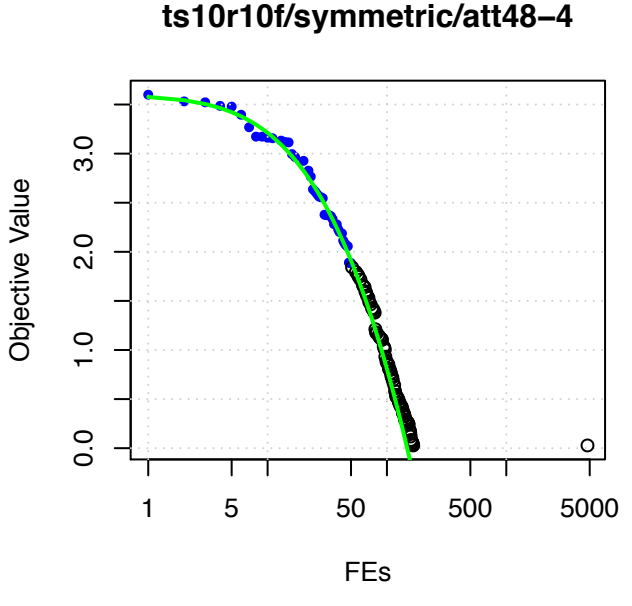
5000
FEs


ts10r10f/symmetric/att48−4
Objective Value
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2.0
3.0
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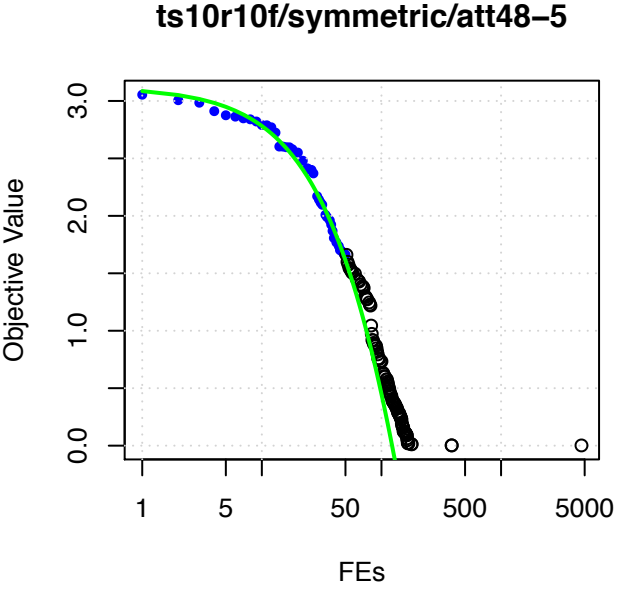
FEs


ts10r10f/symmetric/att48−5
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2.0
3.0
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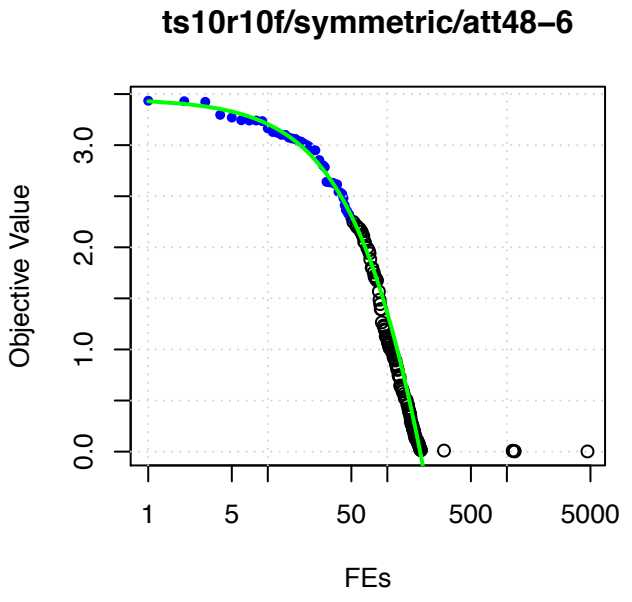
FEs


ts10r10f/symmetric/att48−6
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2.0
3.0
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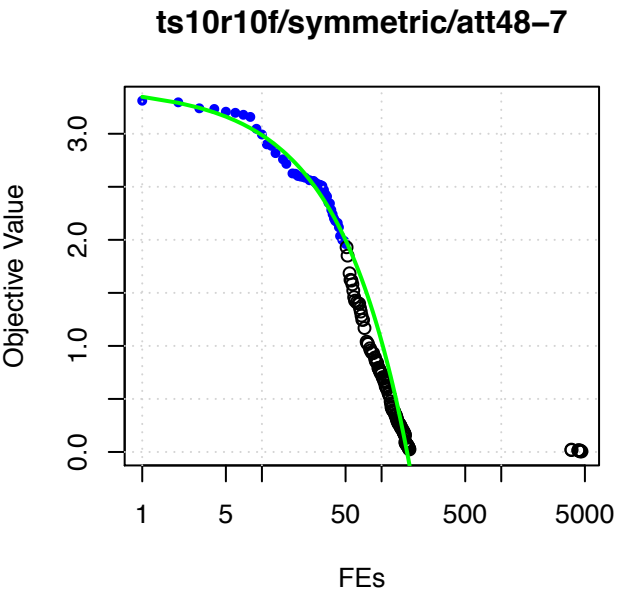
500
5000
FEs


ts10r10f/symmetric/att48−7
Objective Value
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2.0
3.0
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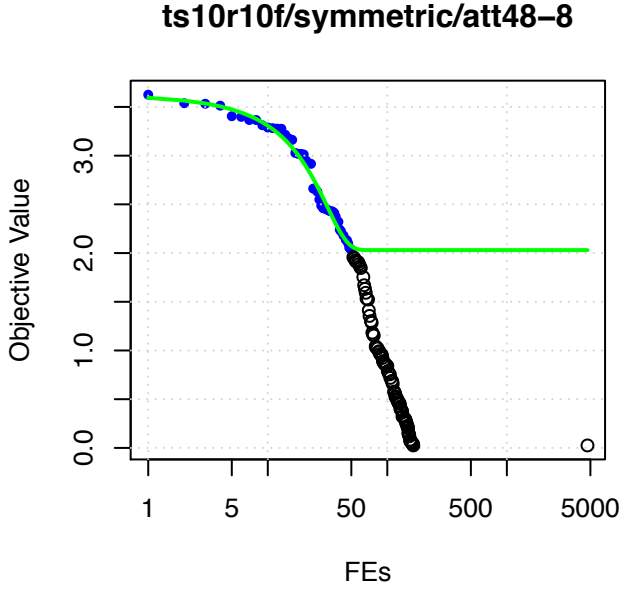
500
5000
FEs


ts10r10f/symmetric/att48−8
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2.0
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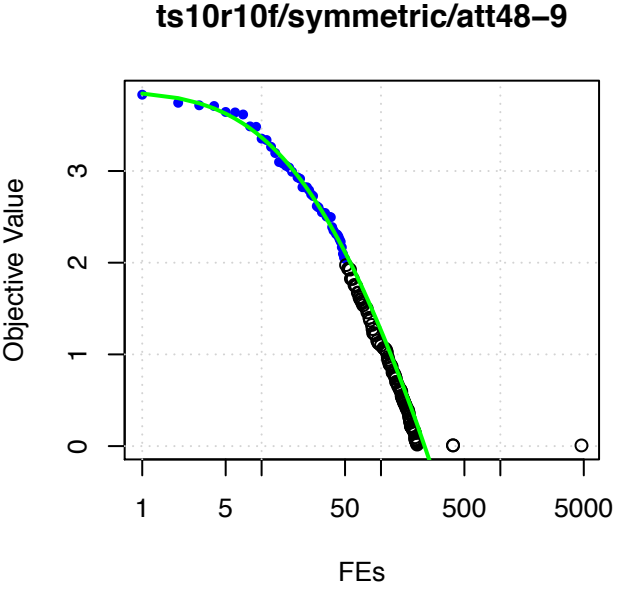
5000
FEs


ts10r10f/symmetric/att48−9
Objective Value
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1
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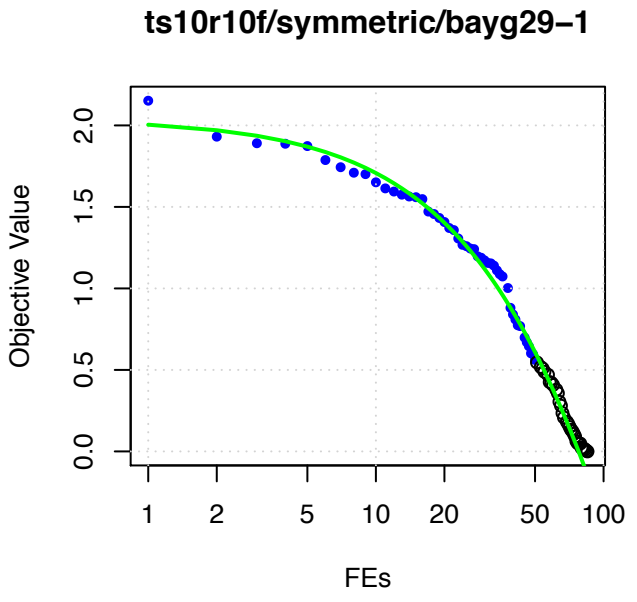
FEs


ts10r10f/symmetric/bayg29−1
Objective Value
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1.5
2.0
1
2
5
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20
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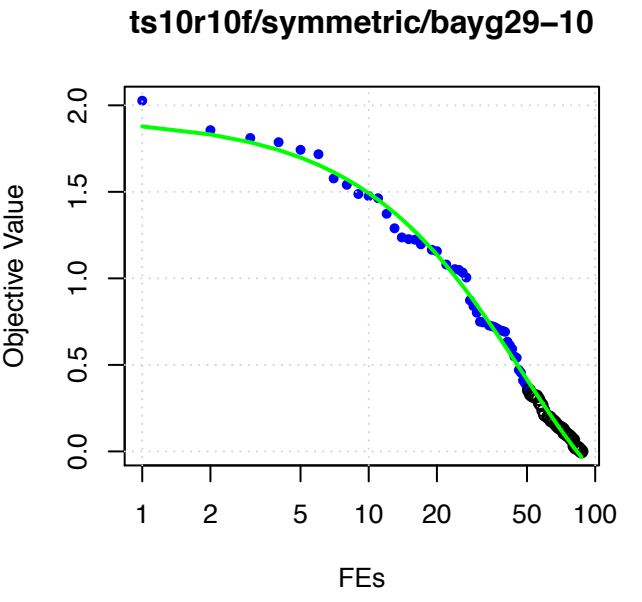
100
FEs


ts10r10f/symmetric/bayg29−10
Objective Value
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1.0
1.5
2.0
1
2
5
10
20
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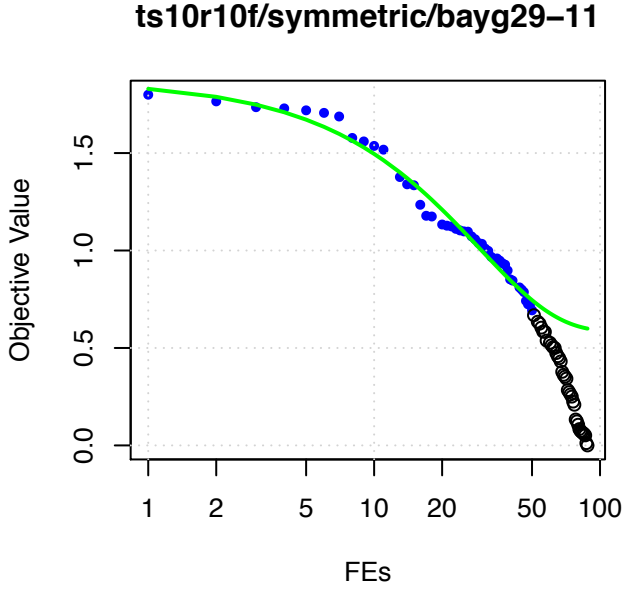
100
FEs


ts10r10f/symmetric/bayg29−11
Objective Value
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1
2
5
10
20
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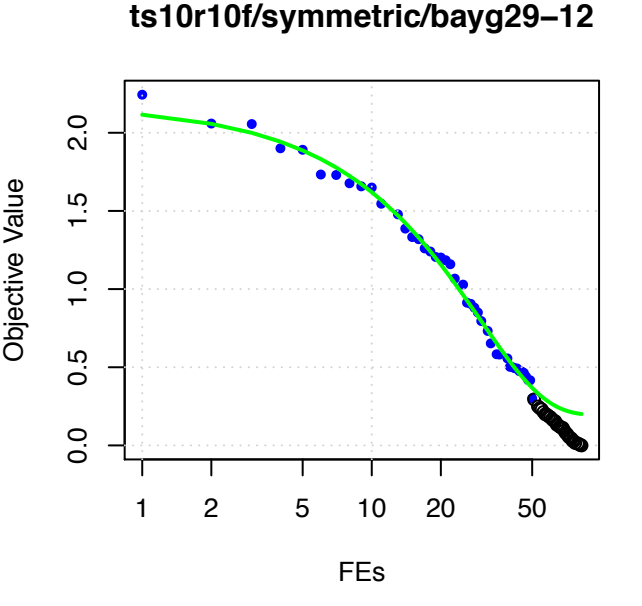
100
FEs


ts10r10f/symmetric/bayg29−12
Objective Value
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2.0
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2
5
10
20
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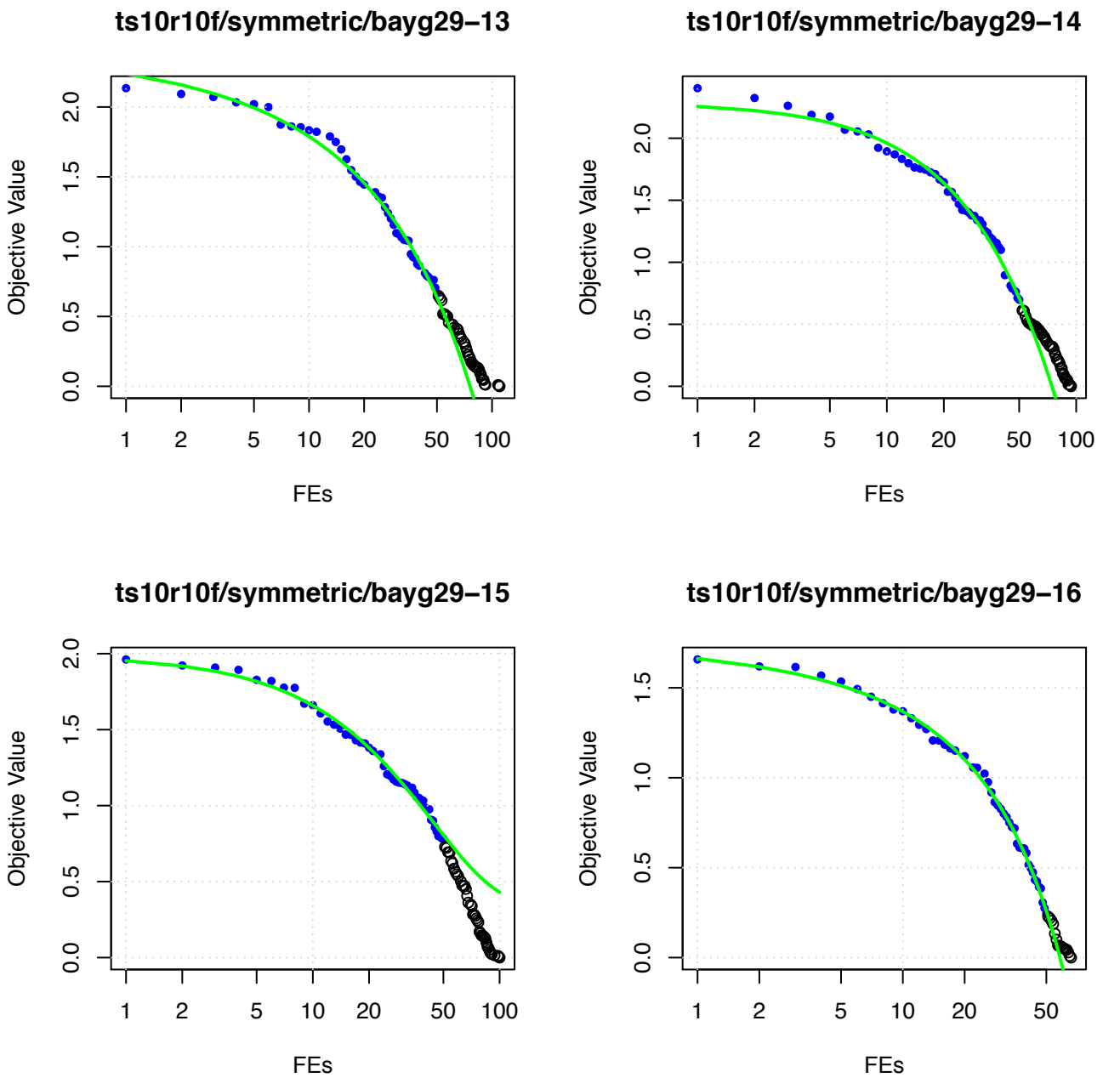
FEs


ts10r10f/symmetric/bayg29−13
ts10r10f/symmetric/bayg29−14
ts10r10f/symmetric/bayg29−15
ts10r10f/symmetric/bayg29−16
Objective Value
FEs
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1.5
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1
2
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10
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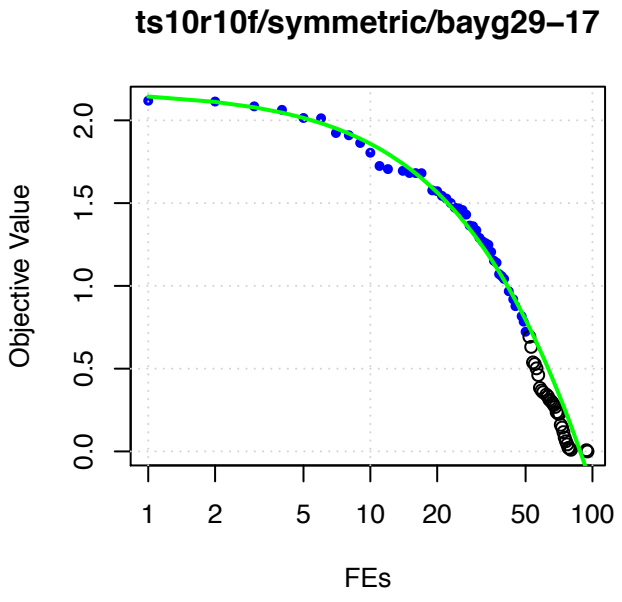
ts10r10f/symmetric/bayg29−17
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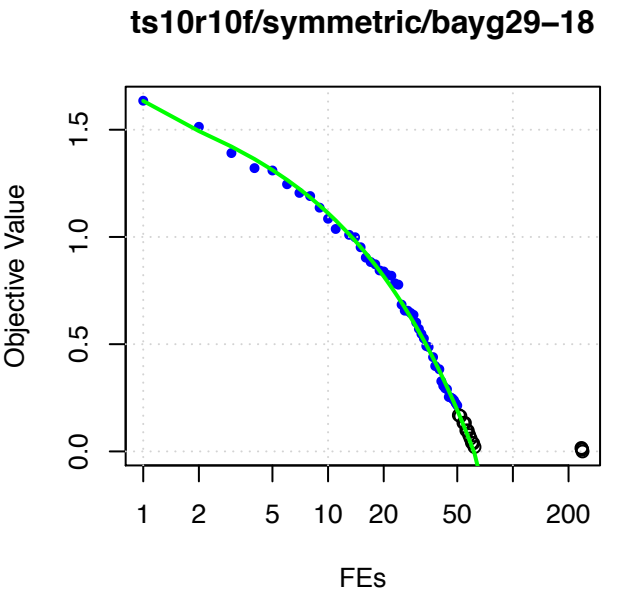
FEs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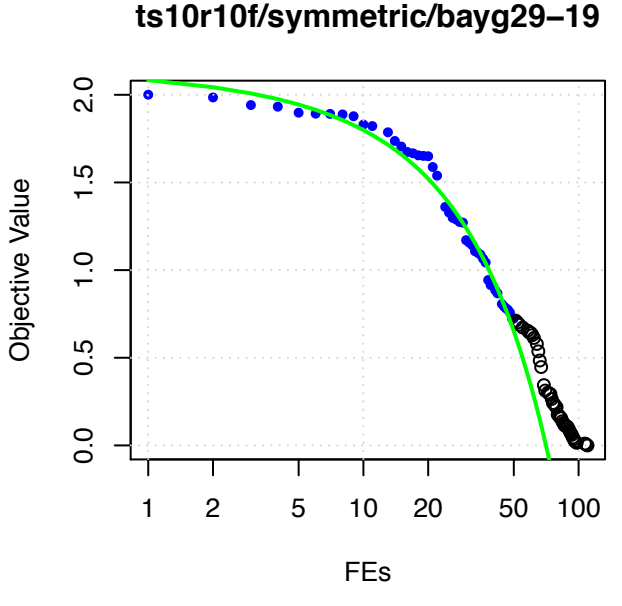
FEs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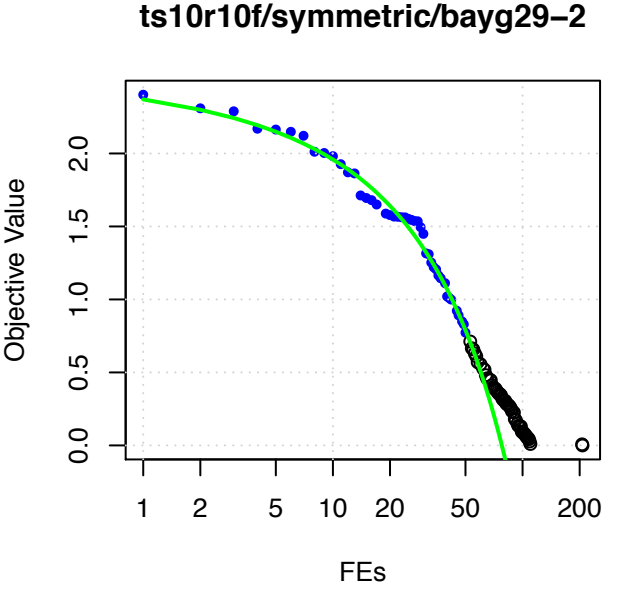
FEs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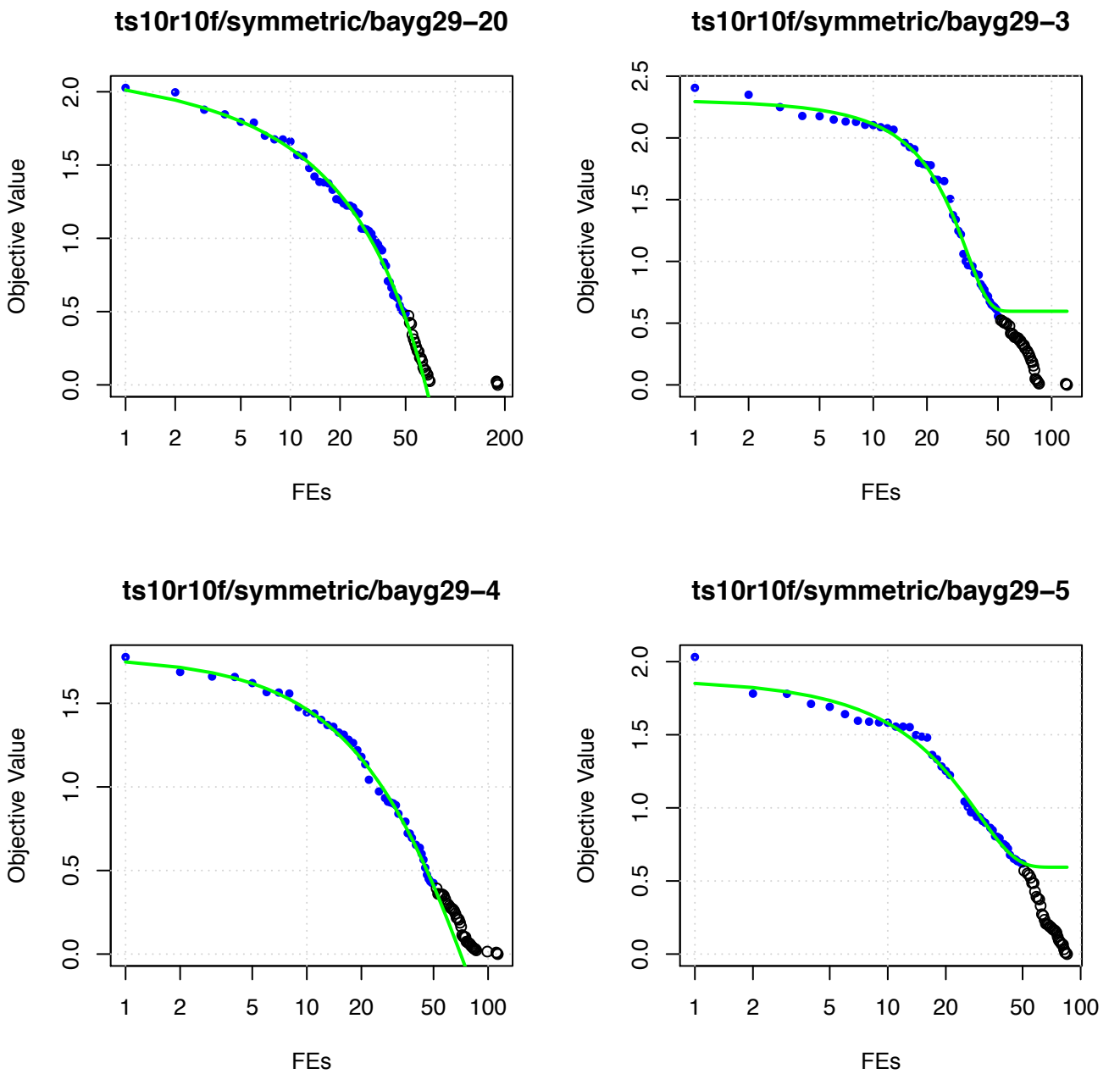
200
FEs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200
FEs
ts10r10f/symmetric/bayg29−3
Objective Value
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1.0
1.5
2.0
2.5
1
2
5
10
20
50
100
FEs
ts10r10f/symmetric/bayg29−4
Objective Value
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1.0
1.5
1
2
5
10
20
50
100
FEs
ts10r10f/symmetric/bayg29−5
Objective Value
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1.5
2.0
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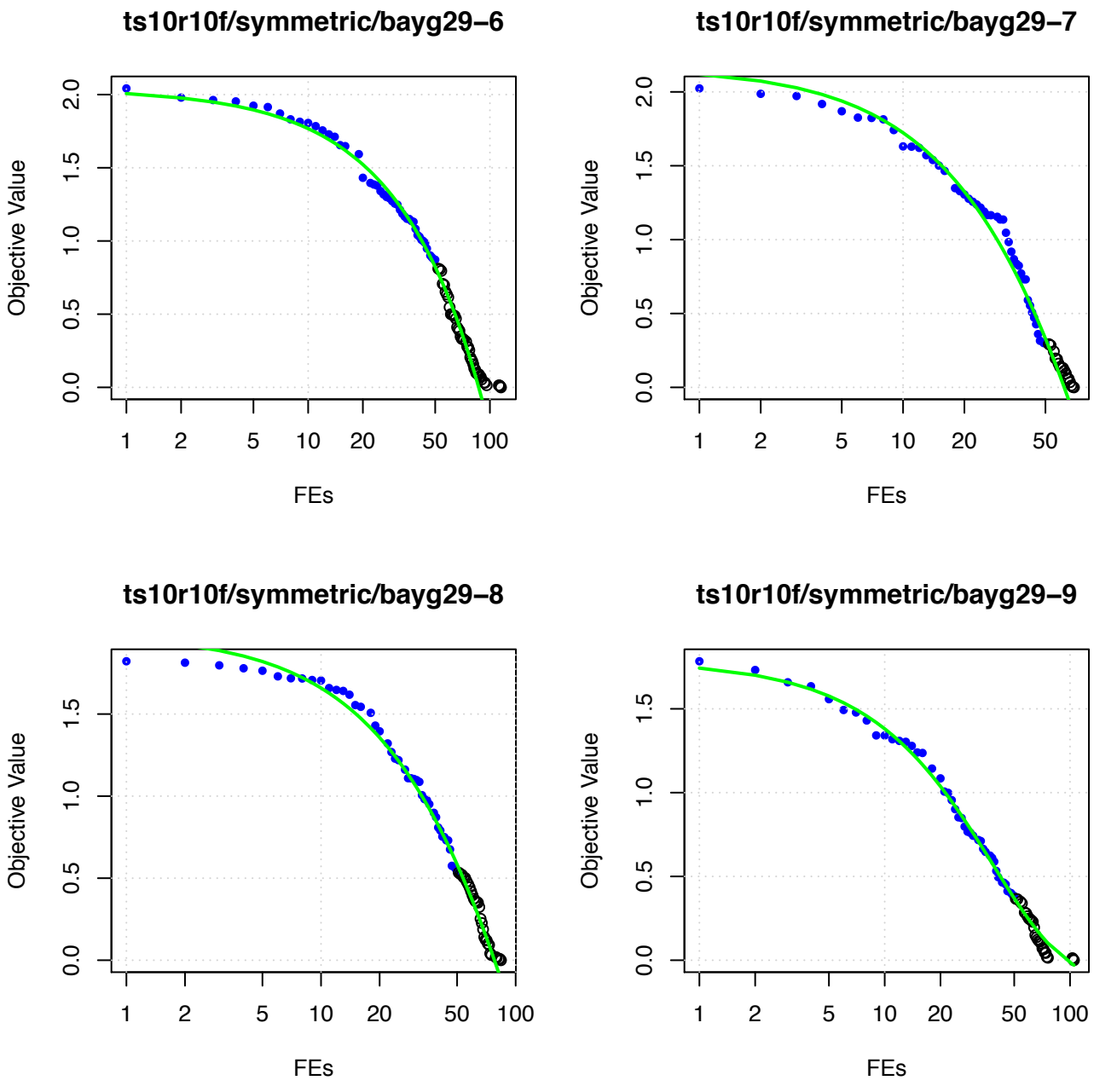
FEs


ts10r10f/symmetric/bayg29−6
ts10r10f/symmetric/bayg29−7
ts10r10f/symmetric/bayg29−8
ts10r10f/symmetric/bayg29−9
Objective Value
FEs
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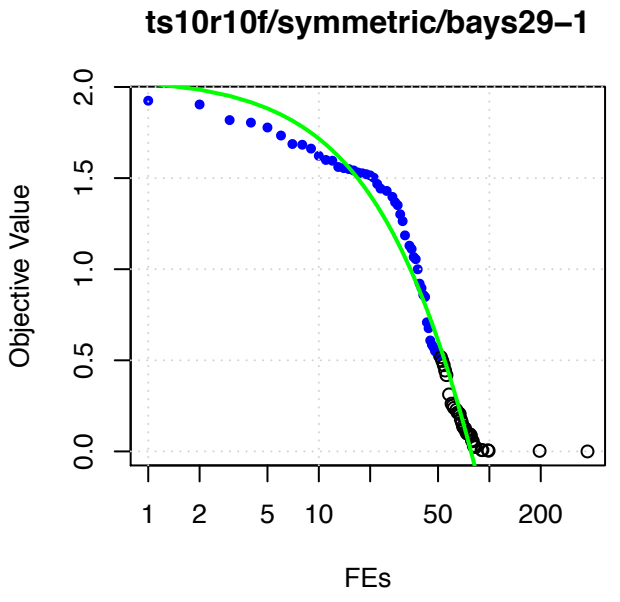
ts10r10f/symmetric/bays29−1
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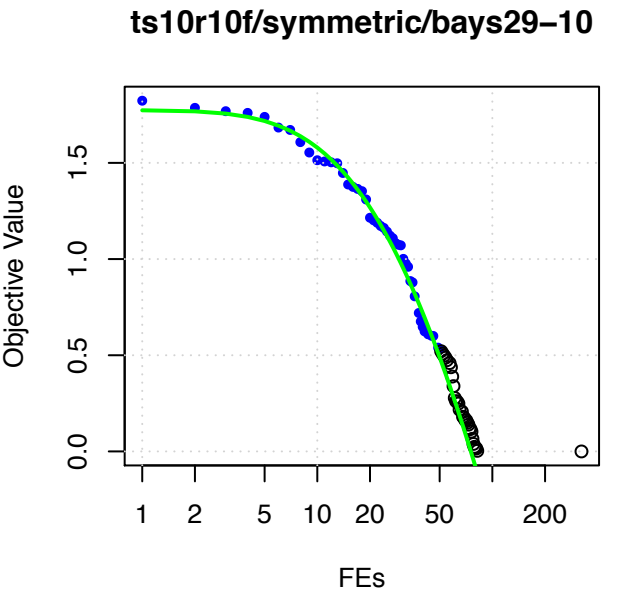
FEs


ts10r10f/symmetric/bays29−10
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1.5
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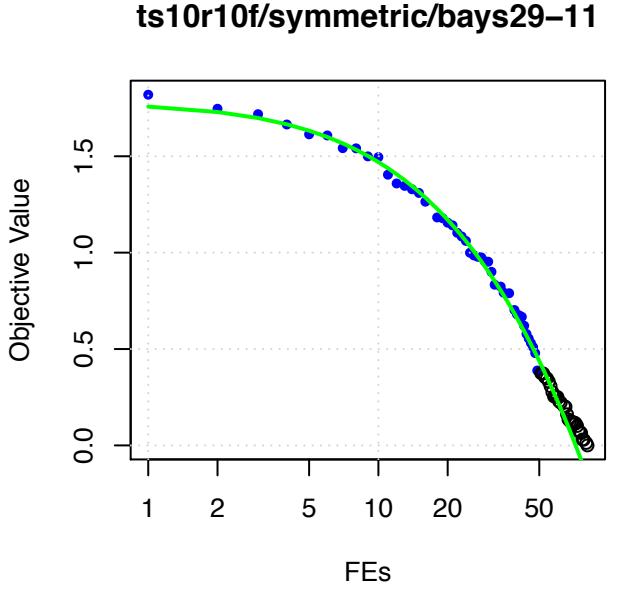
200
FEs


ts10r10f/symmetric/bays29−11
Objective Value
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1.0
1.5
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10
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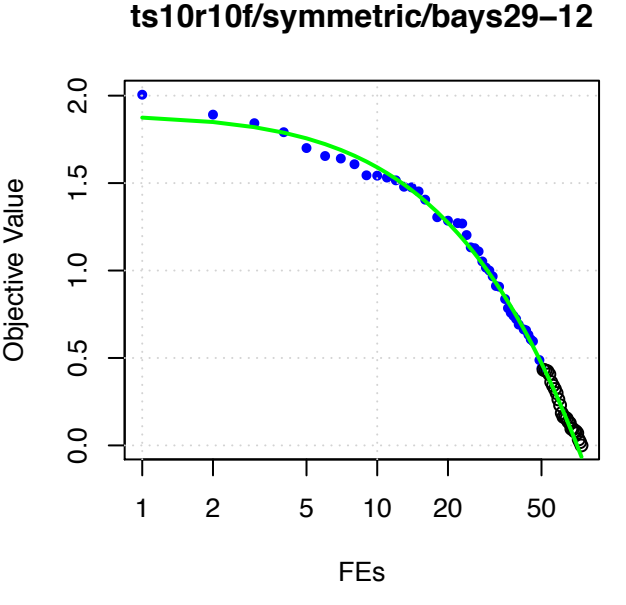
FEs


ts10r10f/symmetric/bays29−12
Objective Value
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1.5
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2
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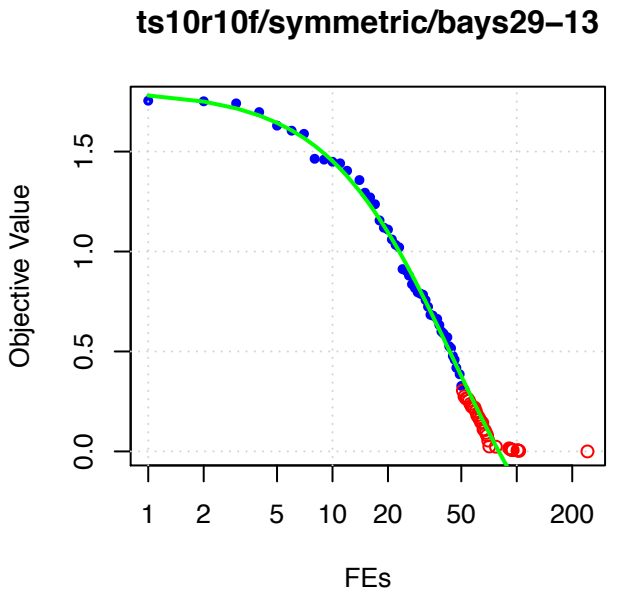
FEs


ts10r10f/symmetric/bays29−13
Objective Value
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1.0
1.5
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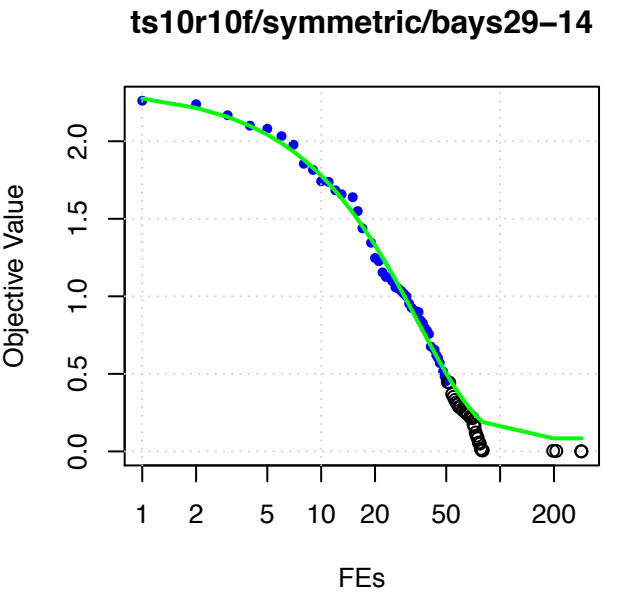
200
FEs


ts10r10f/symmetric/bays29−14
Objective Value
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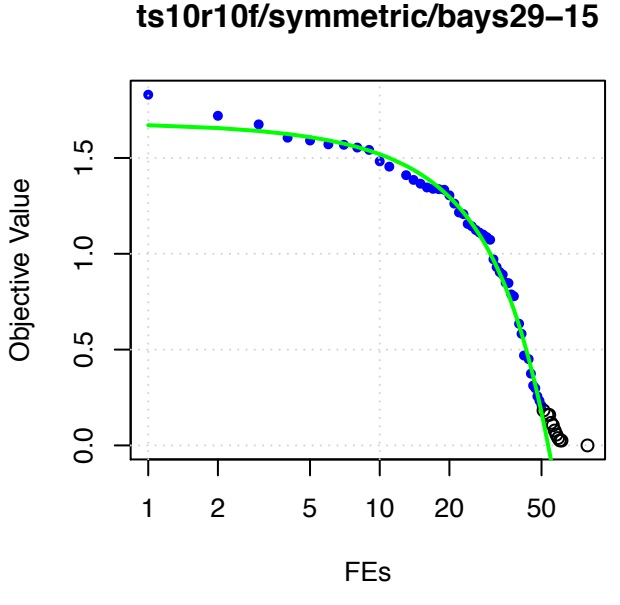
200
FEs


ts10r10f/symmetric/bays29−15
Objective Value
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1.0
1.5
1
2
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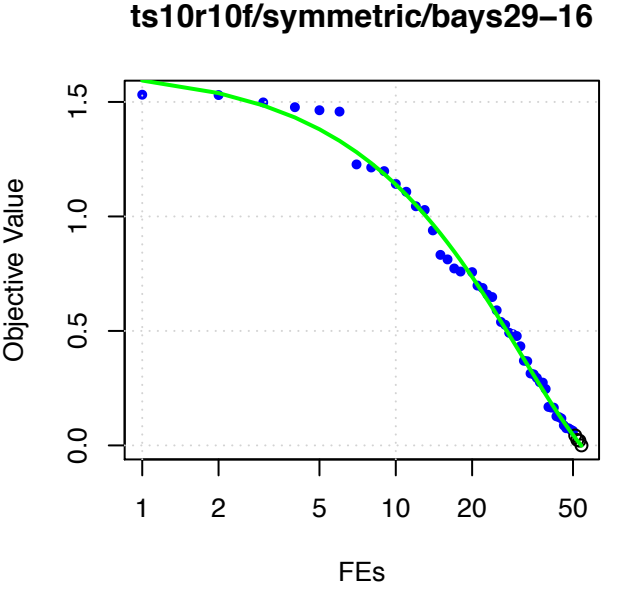
10
20
50
FEs


ts10r10f/symmetric/bays29−16
Objective Value
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1.5
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2
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10
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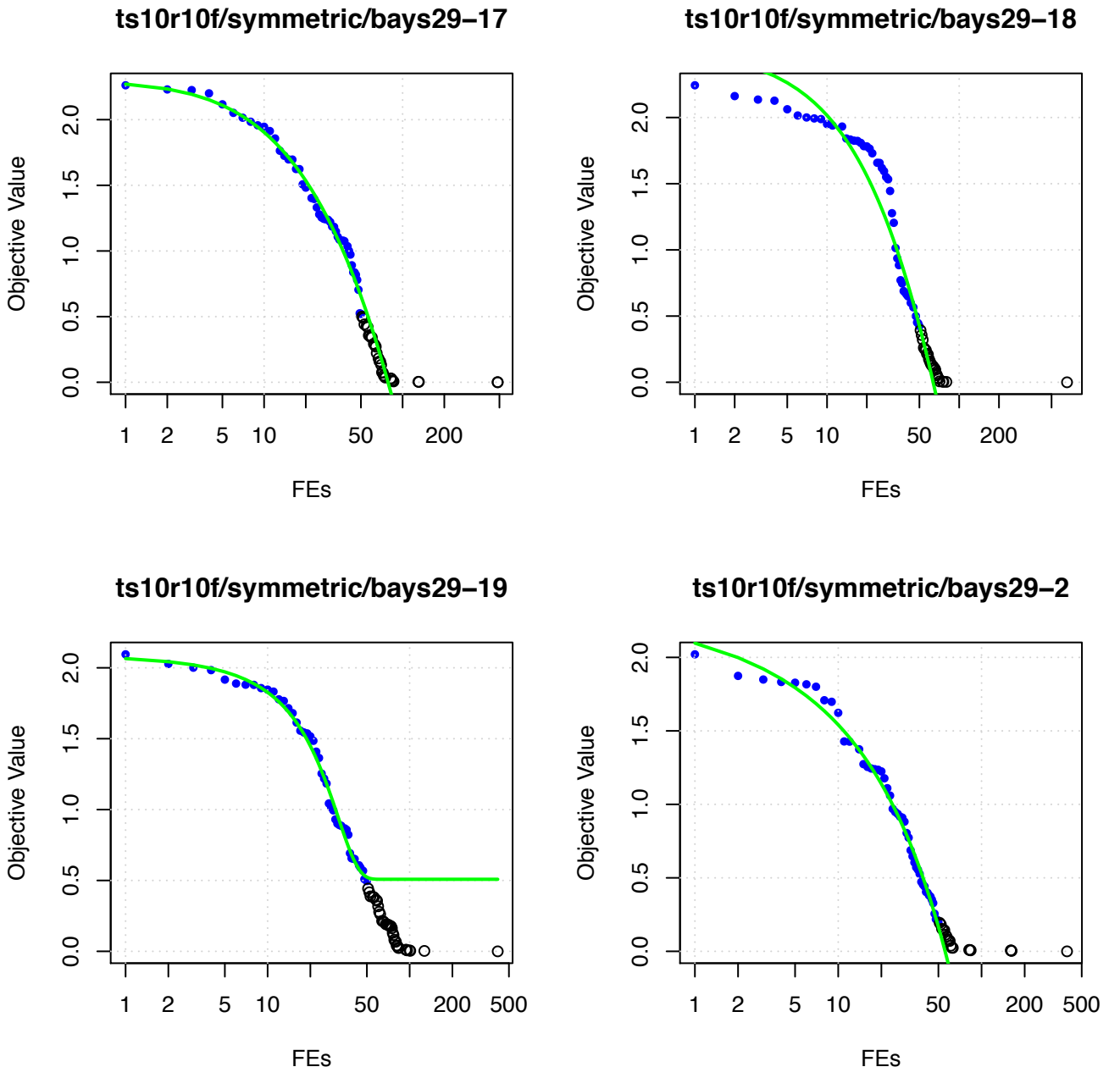
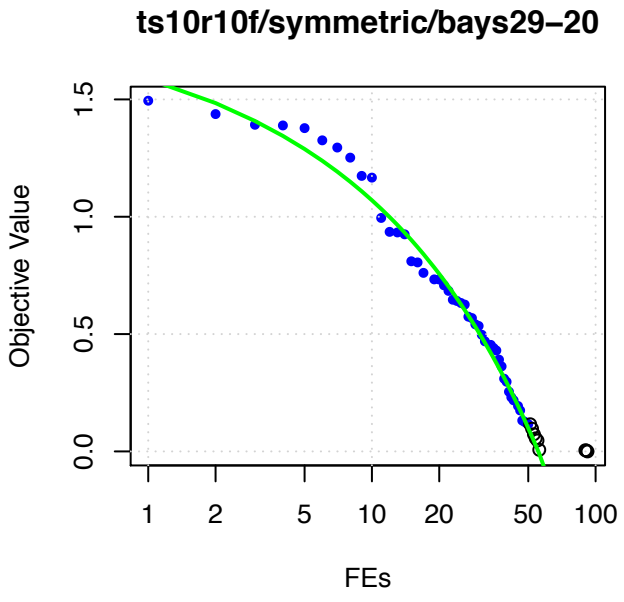
FEs


ts10r10f/symmetric/bays29−17
ts10r10f/symmetric/bays29−18
ts10r10f/symmetric/bays29−19
ts10r10f/symmetric/bays29−2
Objective Value
FEs
0.0
0.5
1.0
1.5
2.0
1
2
5
10
50
200
500


ts10r10f/symmetric/bays29−20
Objective Value
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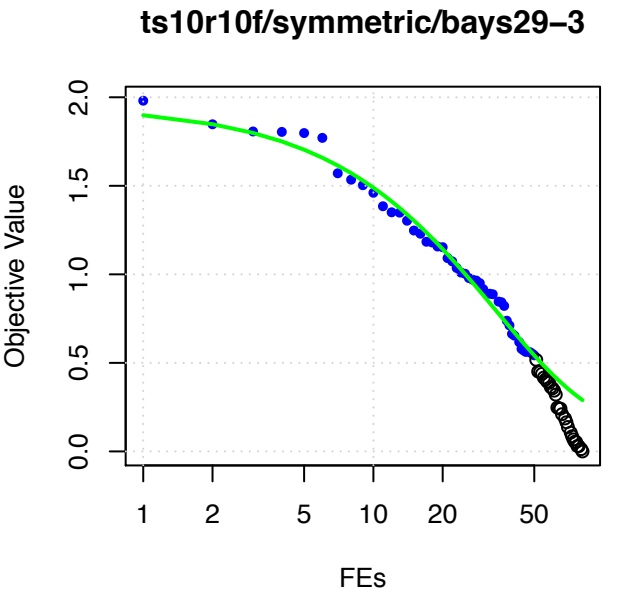
1.0
1.5
1
2
5
10
20
50
100
FEs


ts10r10f/symmetric/bays29−3
Objective Value
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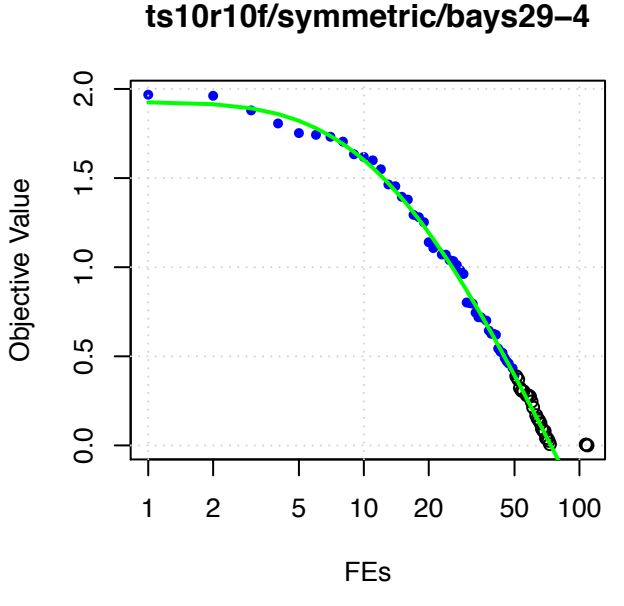
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts10r10f/symmetric/bays29−4
Objective Value
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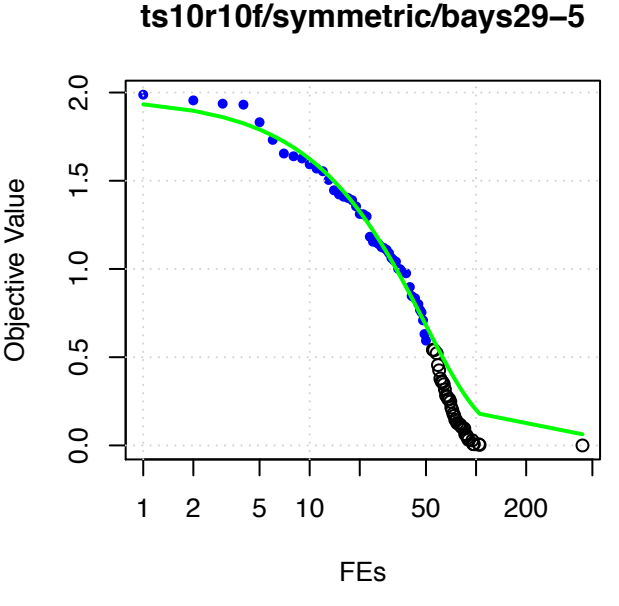
1.0
1.5
2.0
1
2
5
10
20
50
100
FEs


ts10r10f/symmetric/bays29−5
Objective Value
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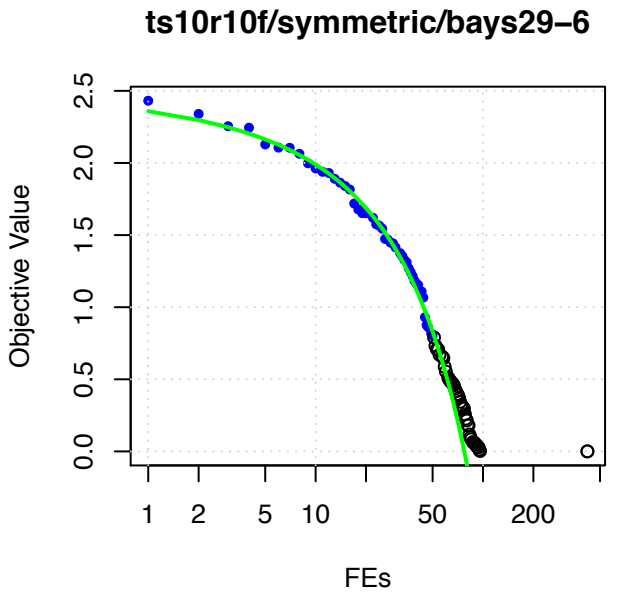
1.0
1.5
2.0
1
2
5
10
50
200
FEs


ts10r10f/symmetric/bays29−6
Objective Value
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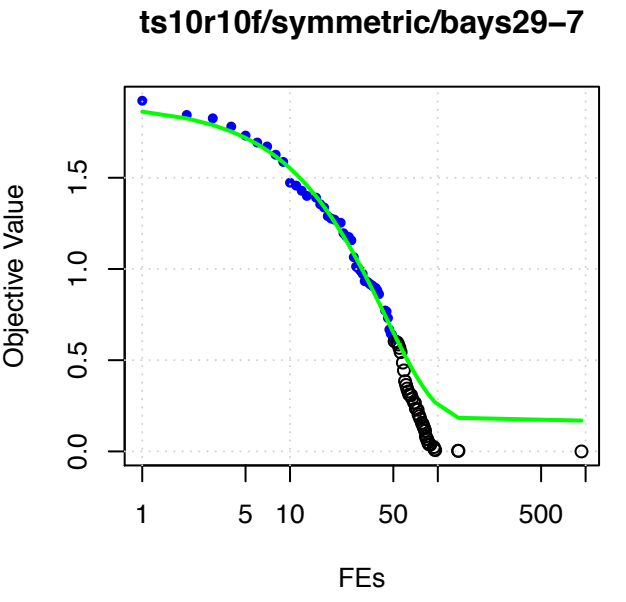
1.0
1.5
2.0
2.5
1
2
5
10
50
200
FEs


ts10r10f/symmetric/bays29−7
Objective Value
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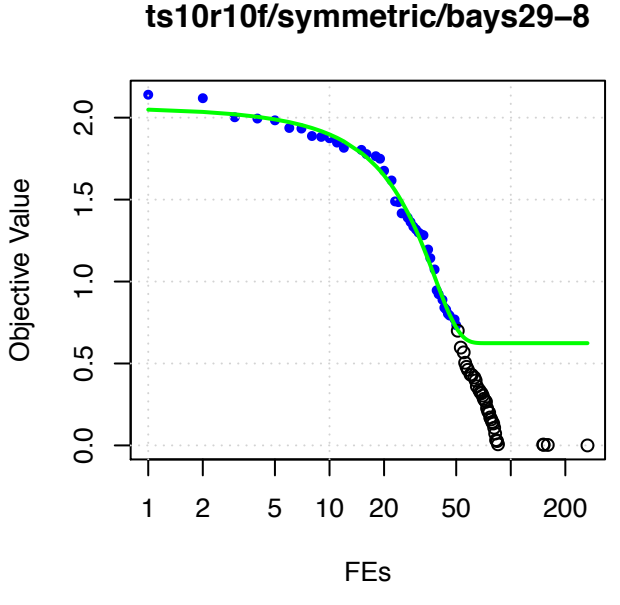
0.5
1.0
1.5
1
5
10
50
500
FEs


ts10r10f/symmetric/bays29−8
Objective Value
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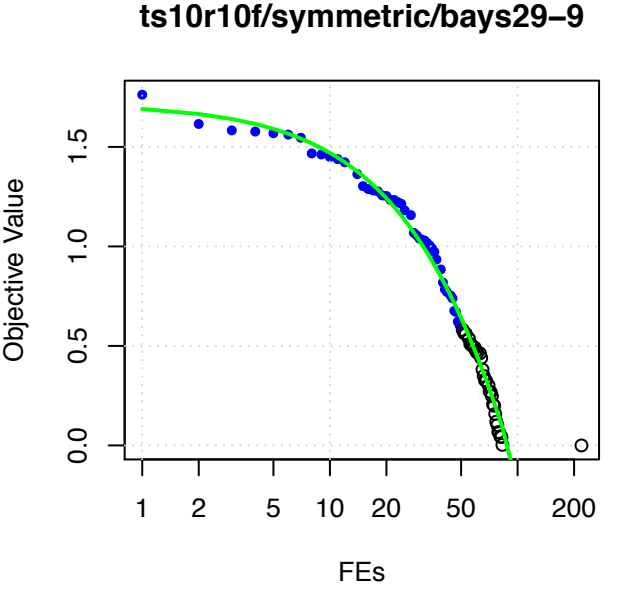
0.5
1.0
1.5
2.0
1
2
5
10
20
50
200
FEs


ts10r10f/symmetric/bays29−9
Objective Value
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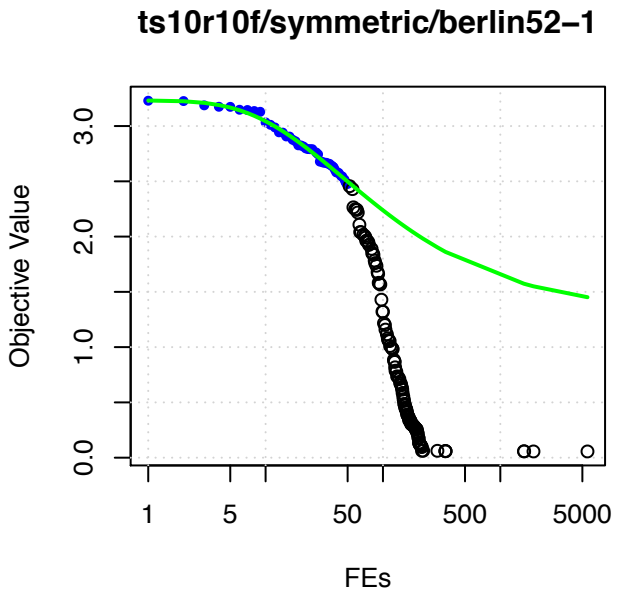
1.0
1.5
1
2
5
10
20
50
200
FEs


ts10r10f/symmetric/berlin52−1
Objective Value
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2.0
3.0
1
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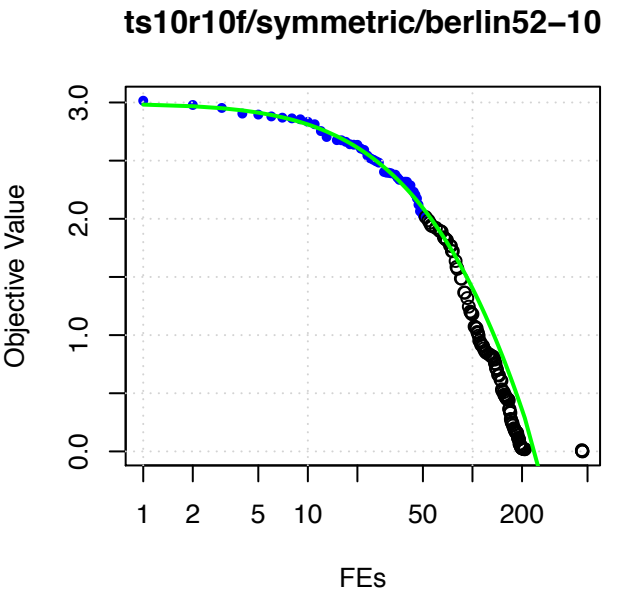
500
5000
FEs


ts10r10f/symmetric/berlin52−10
Objective Value
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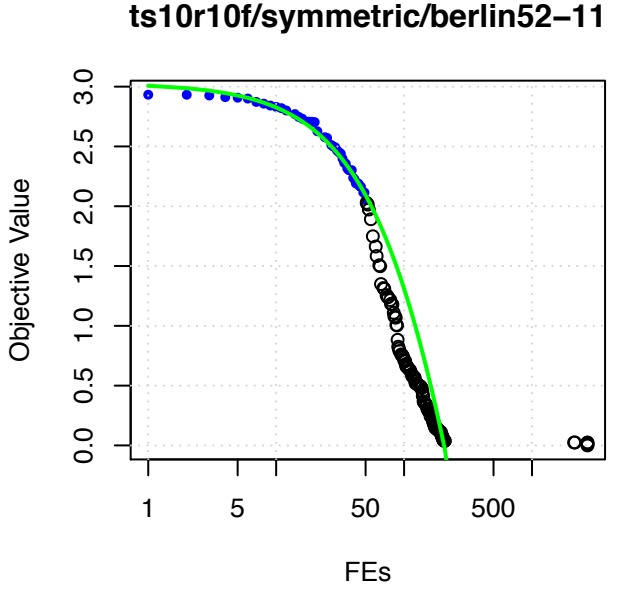
1.0
2.0
3.0
1
2
5
10
50
200
FEs


ts10r10f/symmetric/berlin52−11
Objective Value
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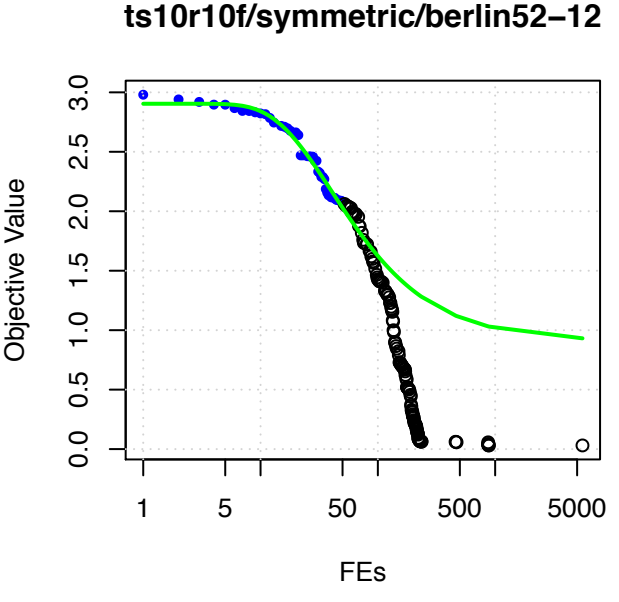
1.0
1.5
2.0
2.5
3.0
1
5
50
500
FEs


ts10r10f/symmetric/berlin52−12
Objective Value
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1.5
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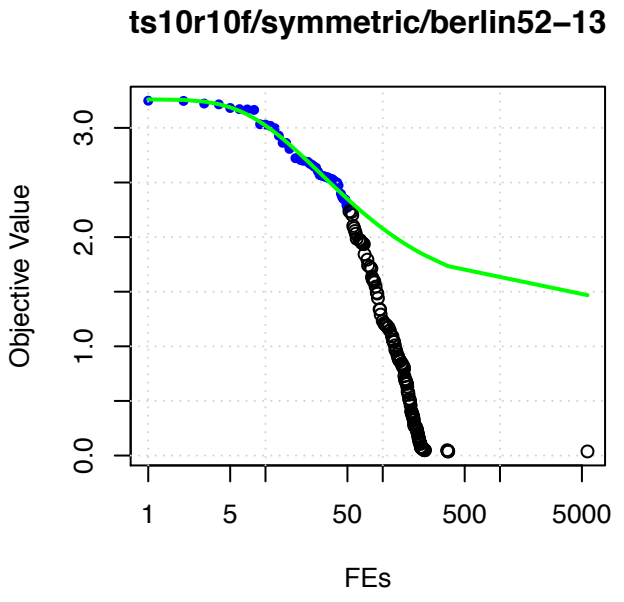
2.5
3.0
1
5
50
500
5000
FEs


ts10r10f/symmetric/berlin52−13
Objective Value
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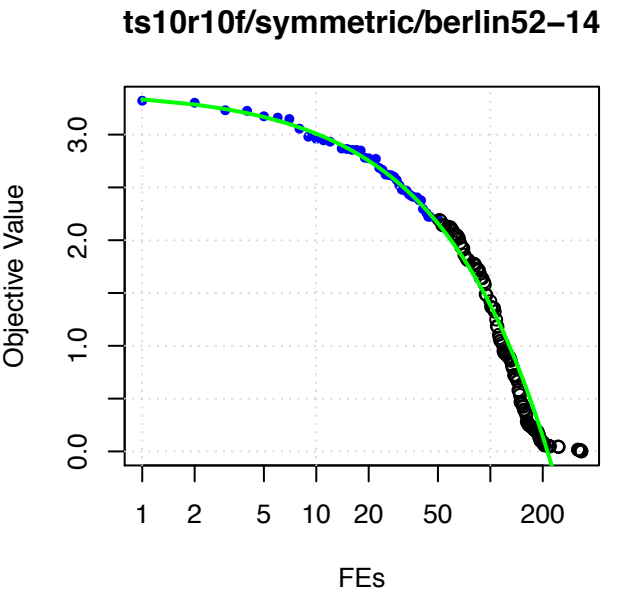
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts10r10f/symmetric/berlin52−14
Objective Value
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2.0
3.0
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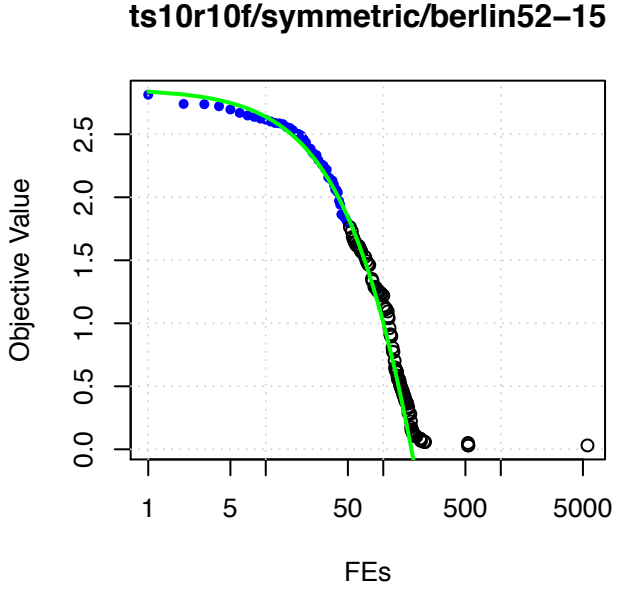
2
5
10
20
50
200
FEs


ts10r10f/symmetric/berlin52−15
Objective Value
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0.5
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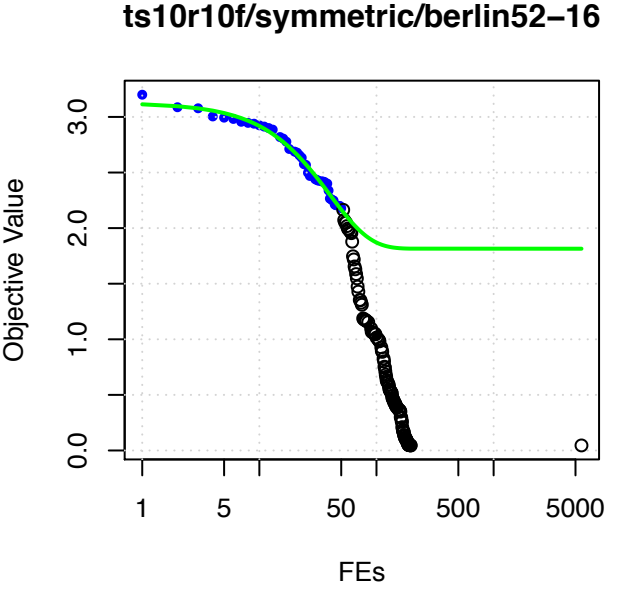
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts10r10f/symmetric/berlin52−16
Objective Value
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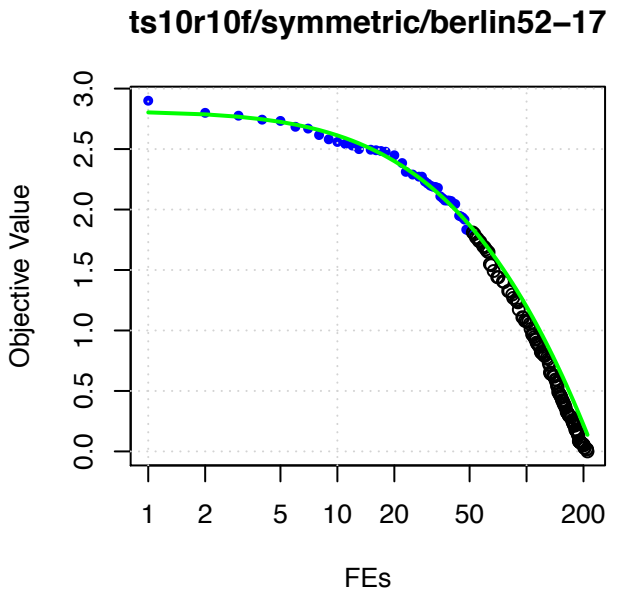
2.0
3.0
1
5
50
500
5000
FEs


ts10r10f/symmetric/berlin52−17
Objective Value
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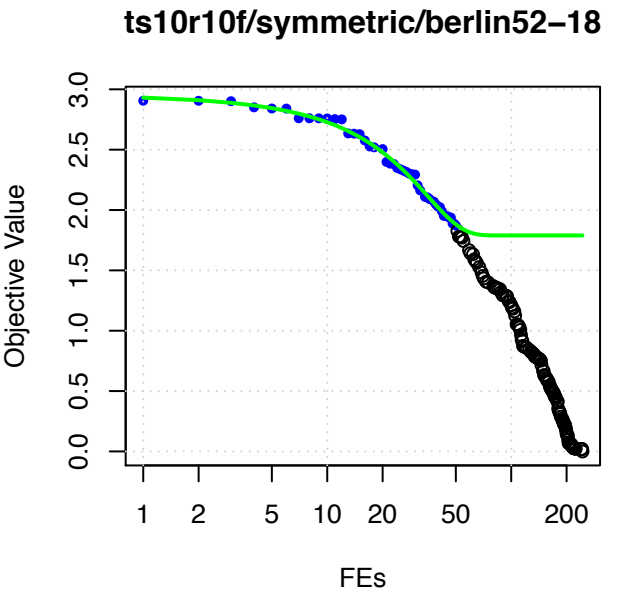
1.0
1.5
2.0
2.5
3.0
1
2
5
10
20
50
200
FEs


ts10r10f/symmetric/berlin52−18
Objective Value
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1.5
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2.5
3.0
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2
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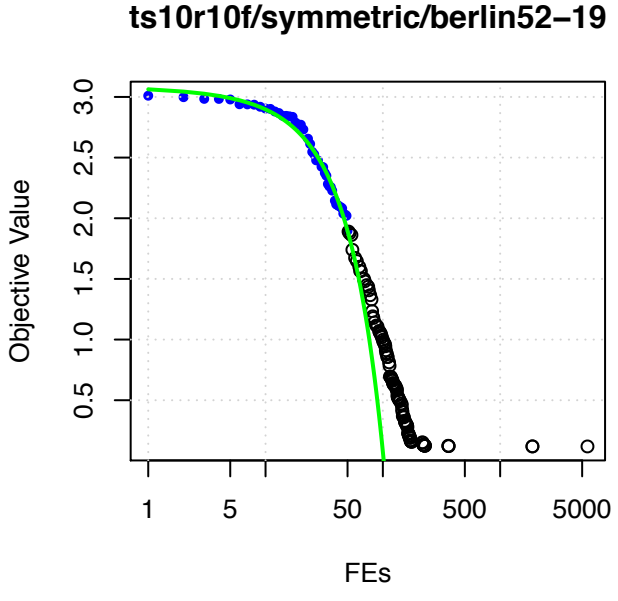
10
20
50
200
FEs


ts10r10f/symmetric/berlin52−19
Objective Value
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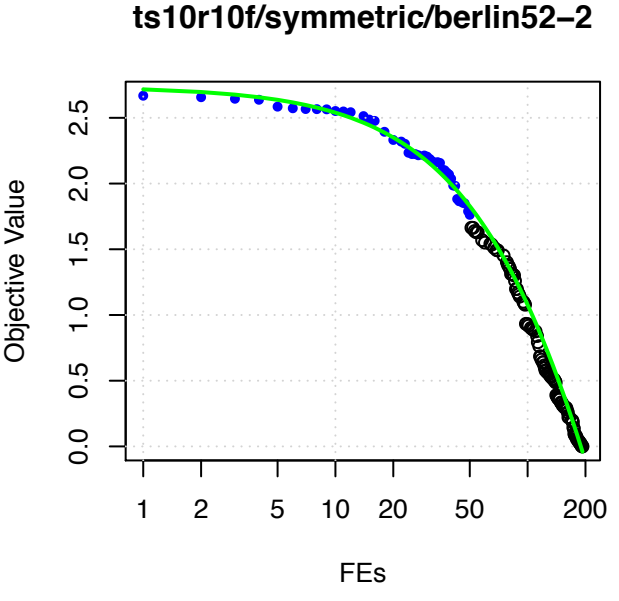
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts10r10f/symmetric/berlin52−2
Objective Value
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1.0
1.5
2.0
2.5
1
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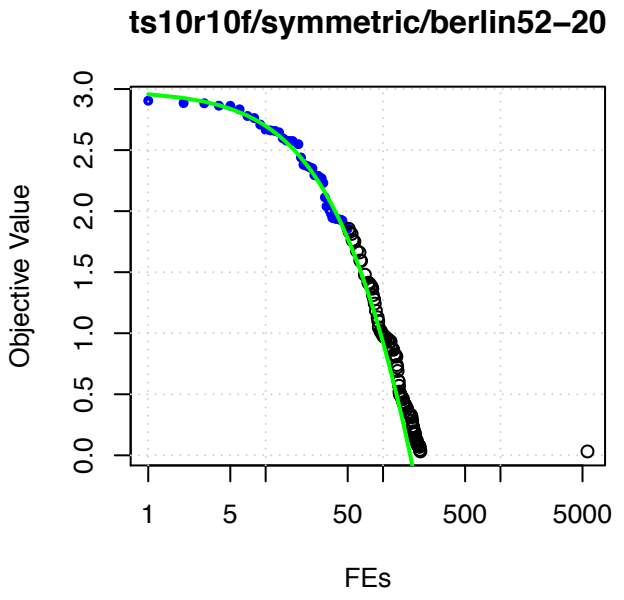
10
20
50
200
FEs


ts10r10f/symmetric/berlin52−20
Objective Value
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1.0
1.5
2.0
2.5
3.0
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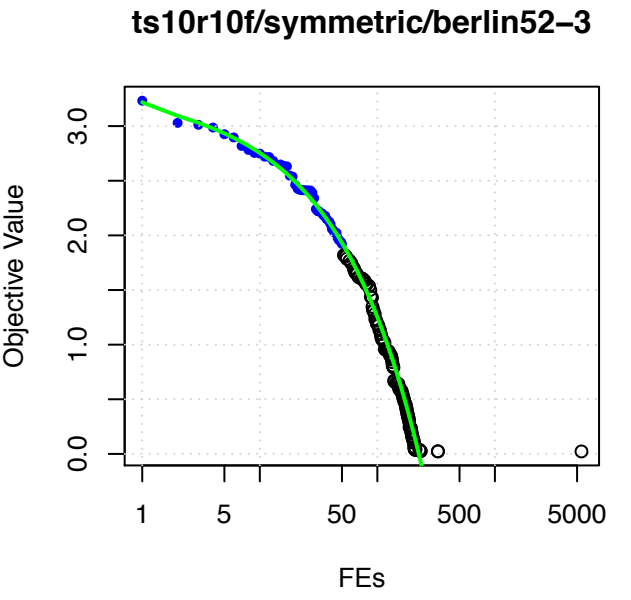
50
500
5000
FEs


ts10r10f/symmetric/berlin52−3
Objective Value
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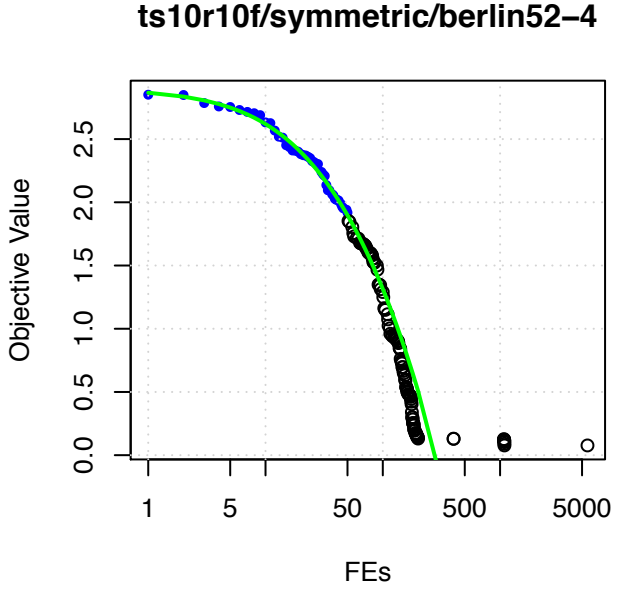
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts10r10f/symmetric/berlin52−4
Objective Value
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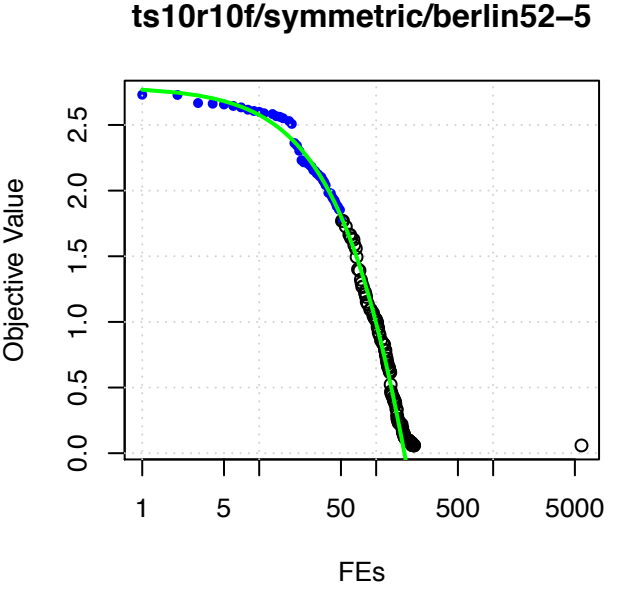
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts10r10f/symmetric/berlin52−5
Objective Value
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1.5
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2.5
1
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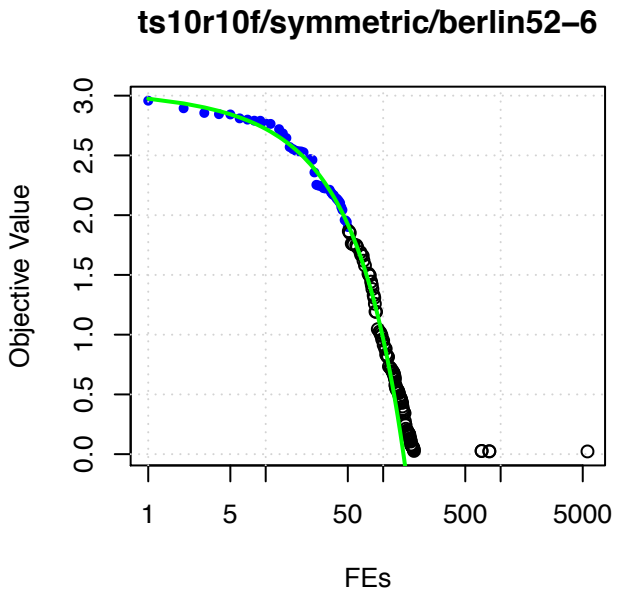
500
5000
FEs


ts10r10f/symmetric/berlin52−6
Objective Value
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1.5
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2.5
3.0
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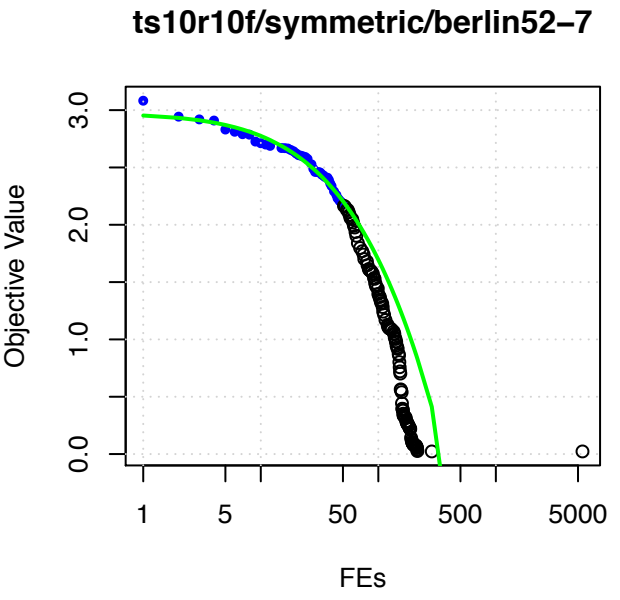
500
5000
FEs


ts10r10f/symmetric/berlin52−7
Objective Value
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2.0
3.0
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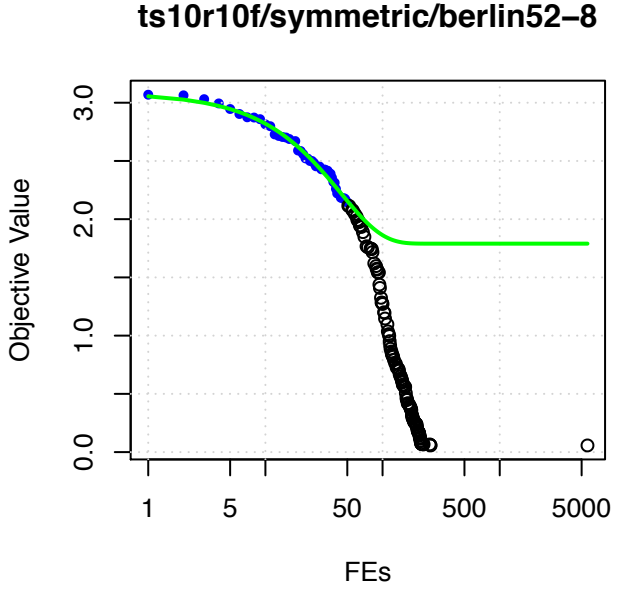
500
5000
FEs


ts10r10f/symmetric/berlin52−8
Objective Value
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2.0
3.0
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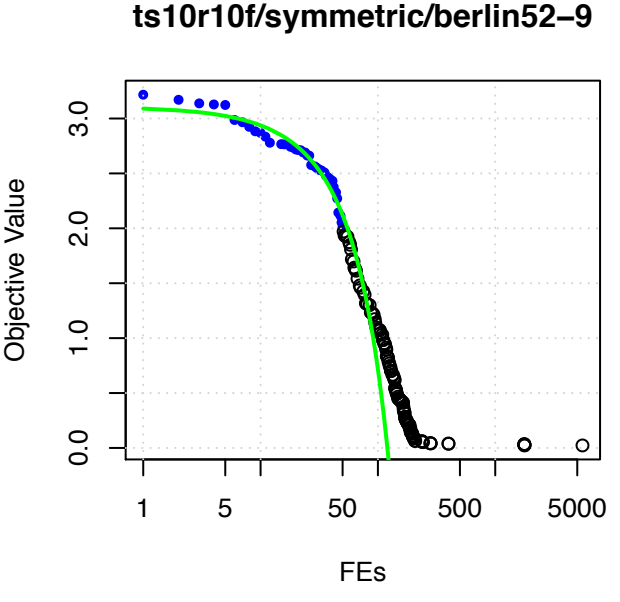
500
5000
FEs


ts10r10f/symmetric/berlin52−9
Objective Value
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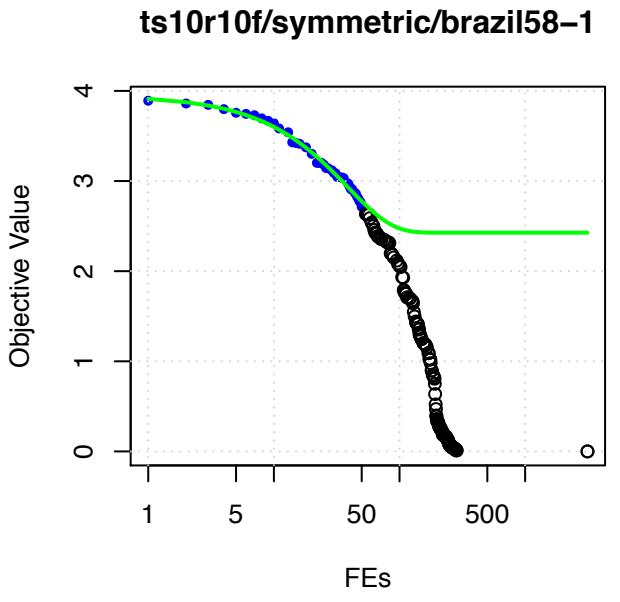
2.0
3.0
1
5
50
500
5000
FEs


ts10r10f/symmetric/brazil58−1
Objective Value
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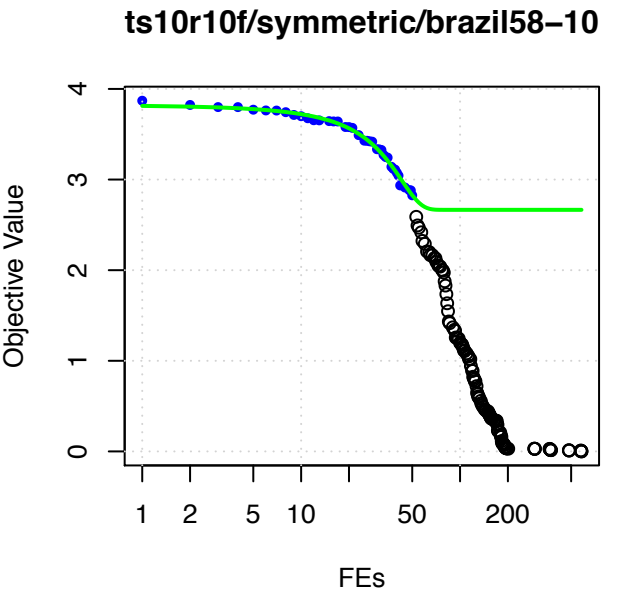
2
3
4
1
5
50
500
FEs


ts10r10f/symmetric/brazil58−10
Objective Value
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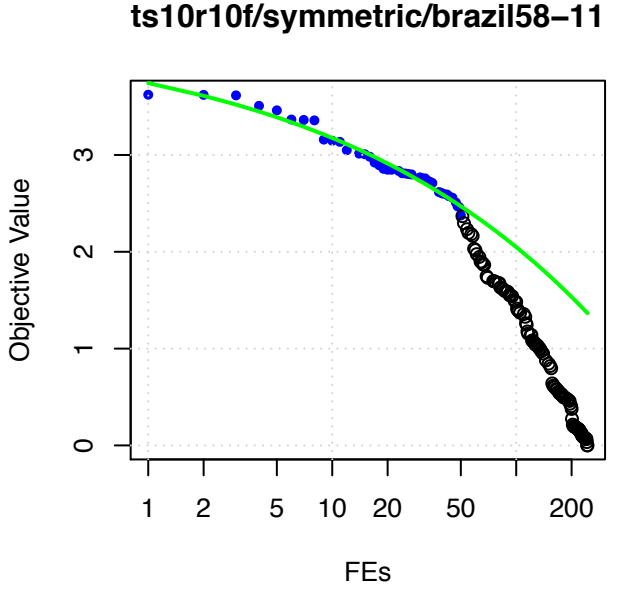
1
2
3
4
1
2
5
10
50
200
FEs


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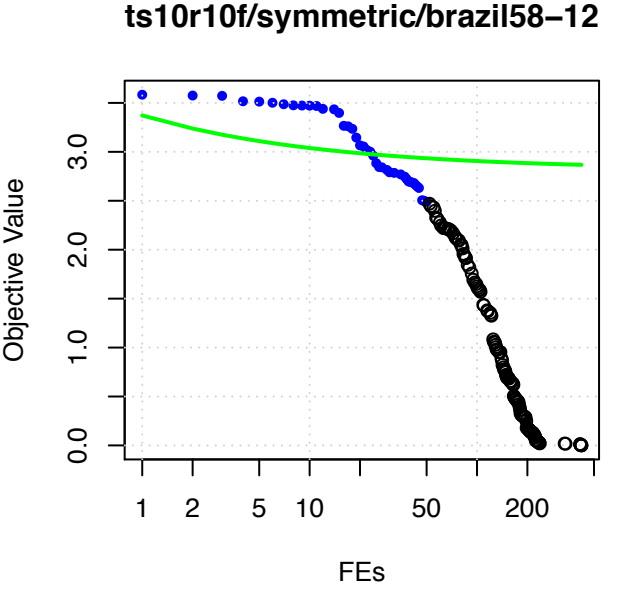
1
2
3
1
2
5
10
20
50
200
FEs


ts10r10f/symmetric/brazil58−12
Objective Value
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2.0
3.0
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10
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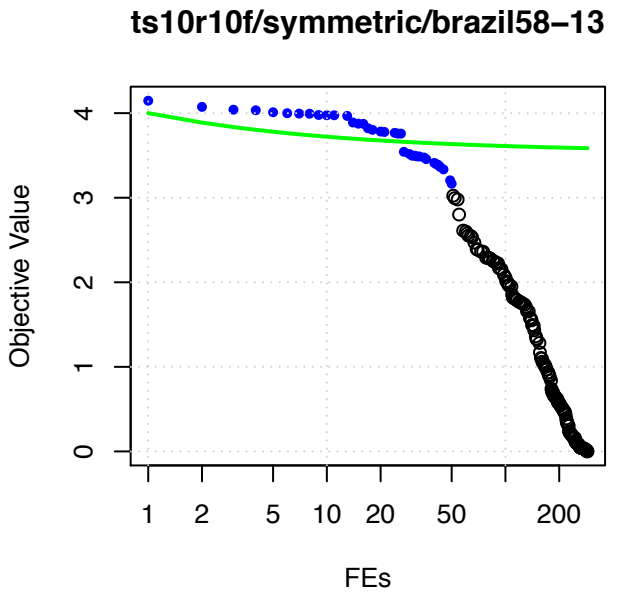
200
FEs


ts10r10f/symmetric/brazil58−13
Objective Value
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2
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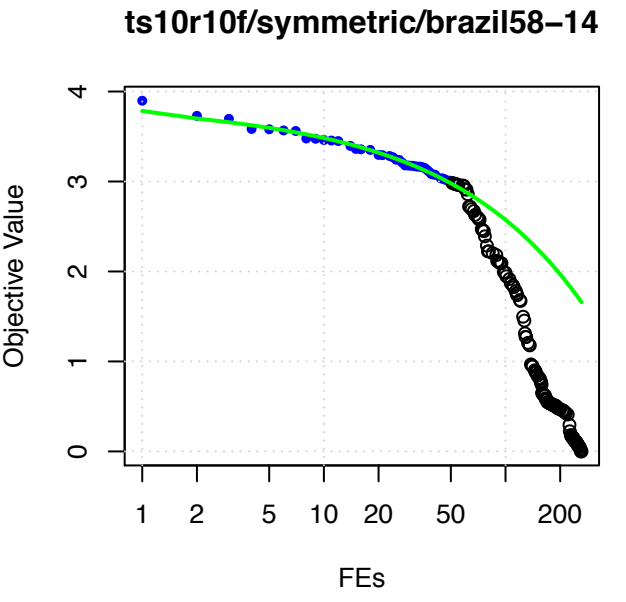
FEs


ts10r10f/symmetric/brazil58−14
Objective Value
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3
4
1
2
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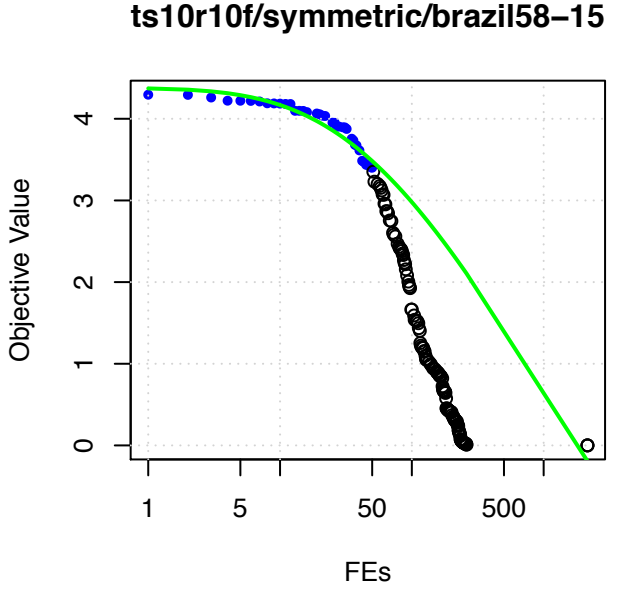
10
20
50
200
FEs


ts10r10f/symmetric/brazil58−15
Objective Value
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4
1
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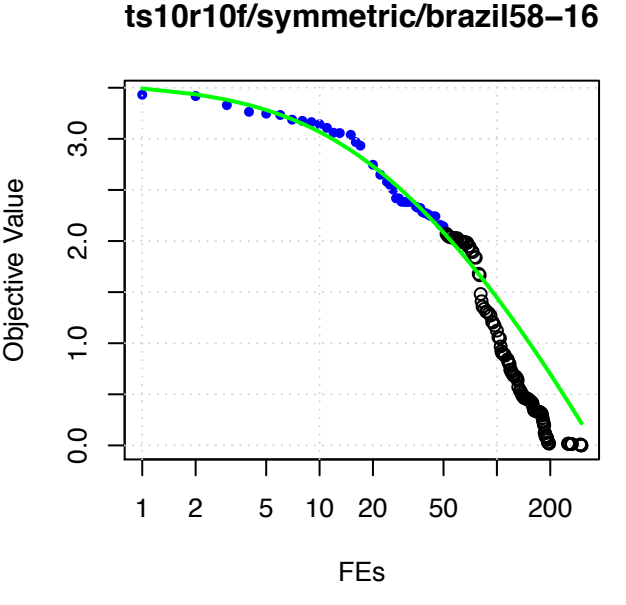
500
FEs


ts10r10f/symmetric/brazil58−16
Objective Value
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2.0
3.0
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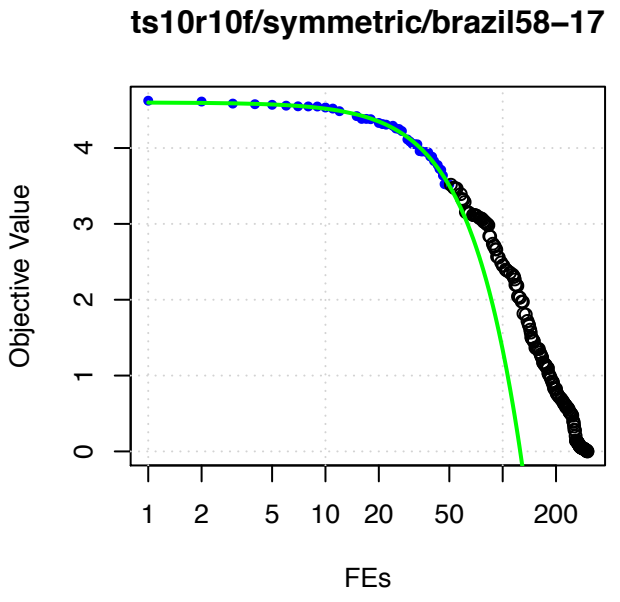
200
FEs


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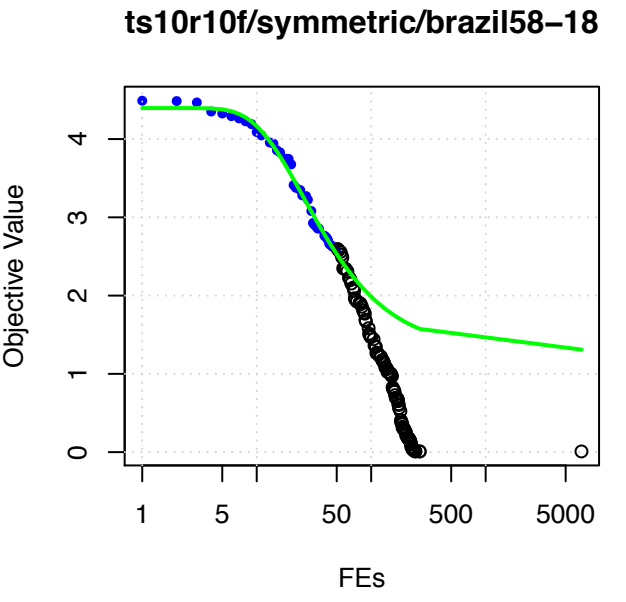
2
3
4
1
2
5
10
20
50
200
FEs


ts10r10f/symmetric/brazil58−18
Objective Value
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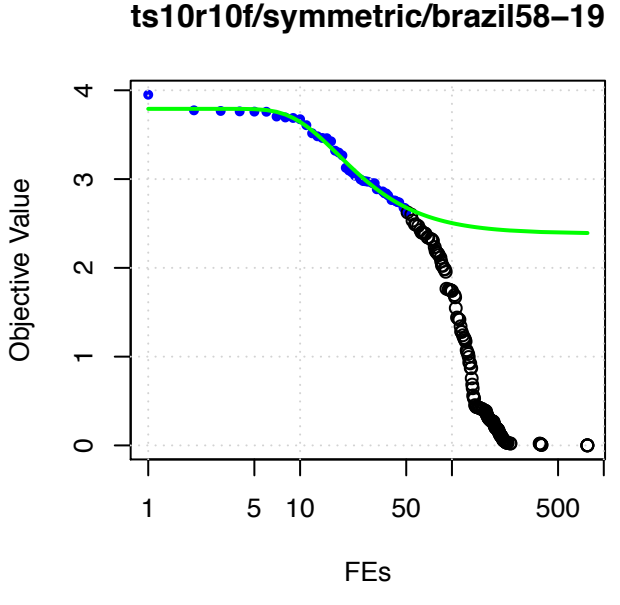
3
4
1
5
50
500
5000
FEs


ts10r10f/symmetric/brazil58−19
Objective Value
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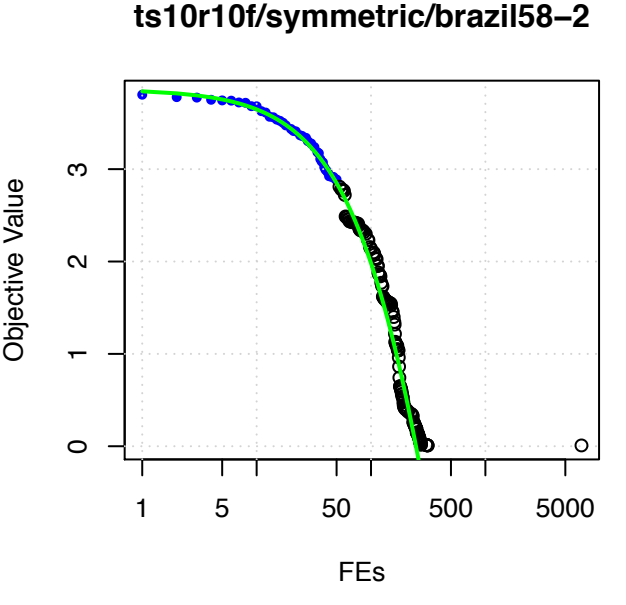
2
3
4
1
5
10
50
500
FEs


ts10r10f/symmetric/brazil58−2
Objective Value
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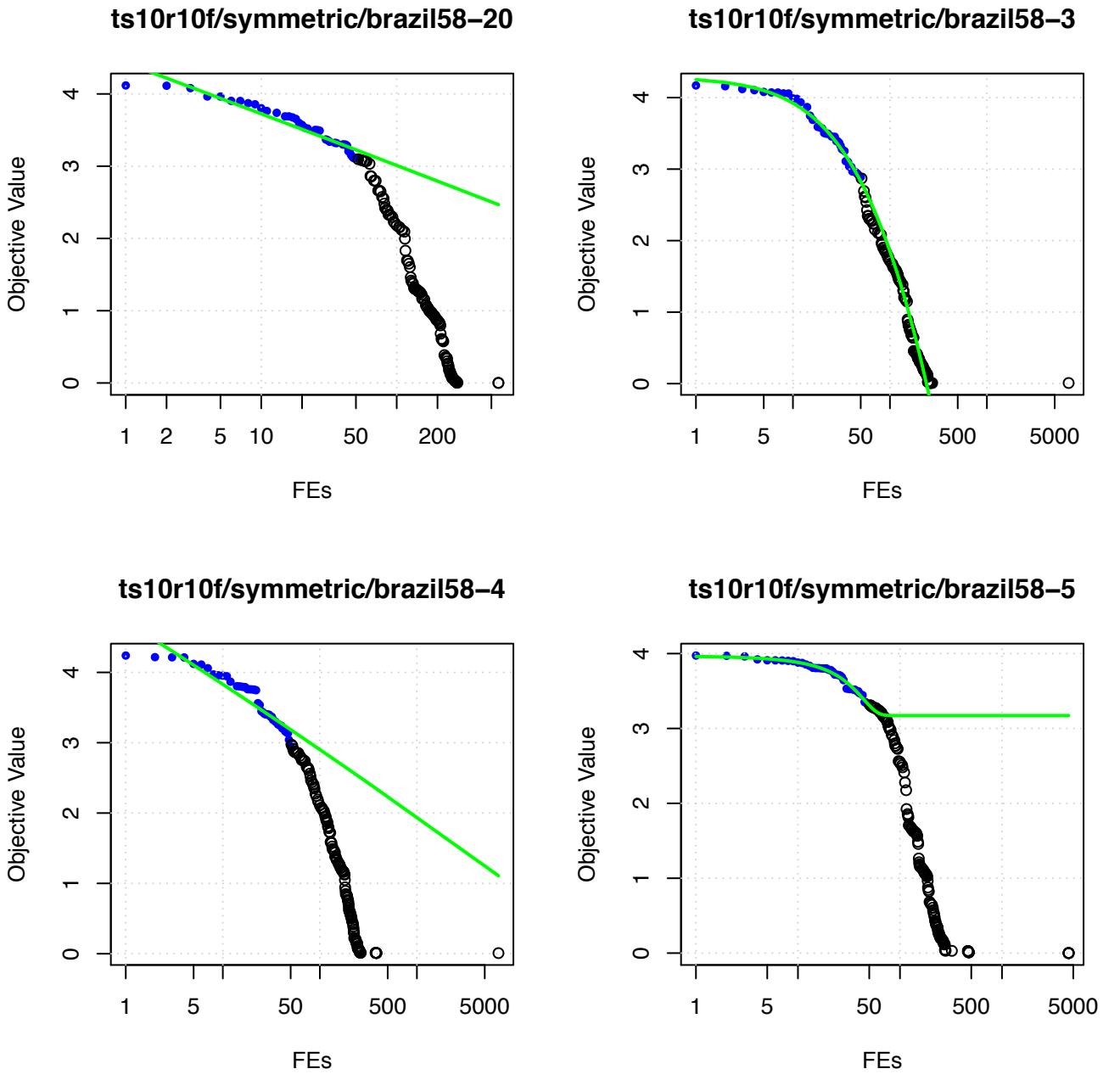
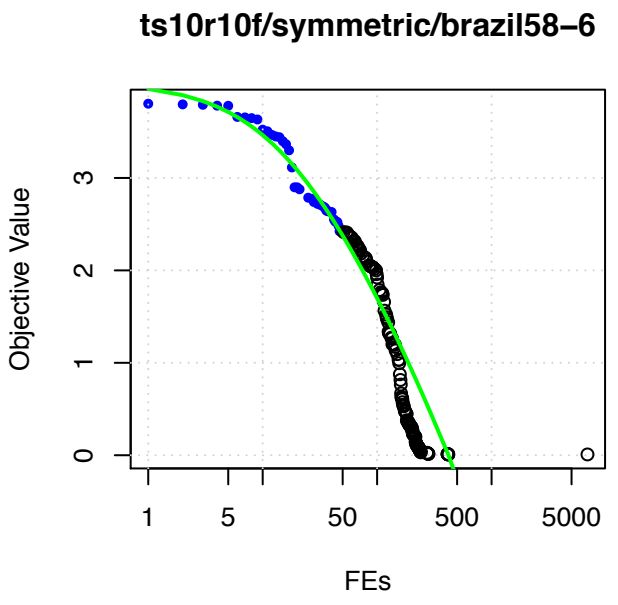
2
3
1
5
50
500
5000
FEs


ts10r10f/symmetric/brazil58−20
ts10r10f/symmetric/brazil58−3
ts10r10f/symmetric/brazil58−4
ts10r10f/symmetric/brazil58−5
Objective Value
FEs
0
1
2
3
4
1
2
5
10
50
200
500
5000


ts10r10f/symmetric/brazil58−6
Objective Value
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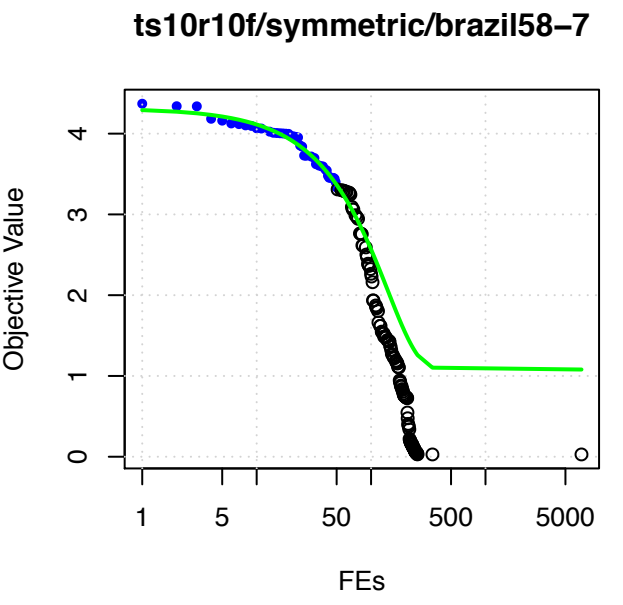
2
3
1
5
50
500
5000
FEs


ts10r10f/symmetric/brazil58−7
Objective Value
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1
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3
4
1
5
50
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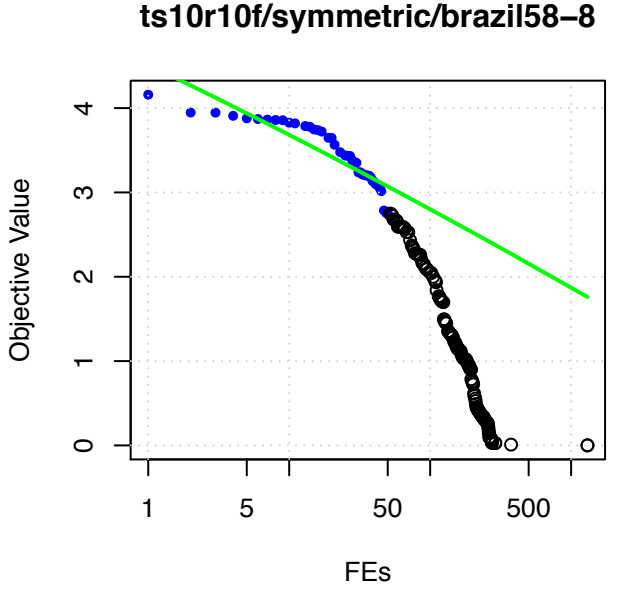
5000
FEs


ts10r10f/symmetric/brazil58−8
Objective Value
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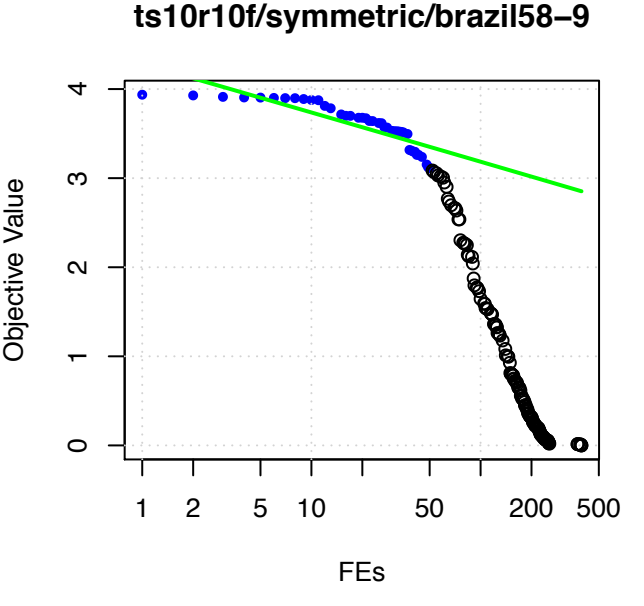
1
2
3
4
1
5
50
500
FEs


ts10r10f/symmetric/brazil58−9
Objective Value
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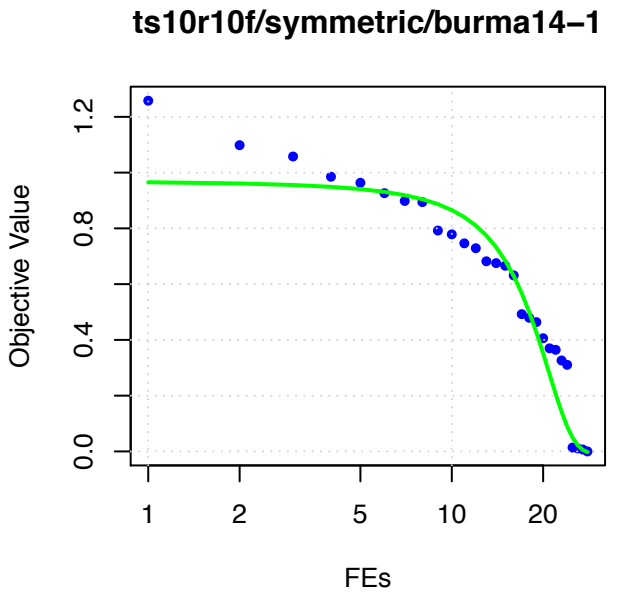
1
2
3
4
1
2
5
10
50
200
500
FEs


ts10r10f/symmetric/burma14−1
Objective Value
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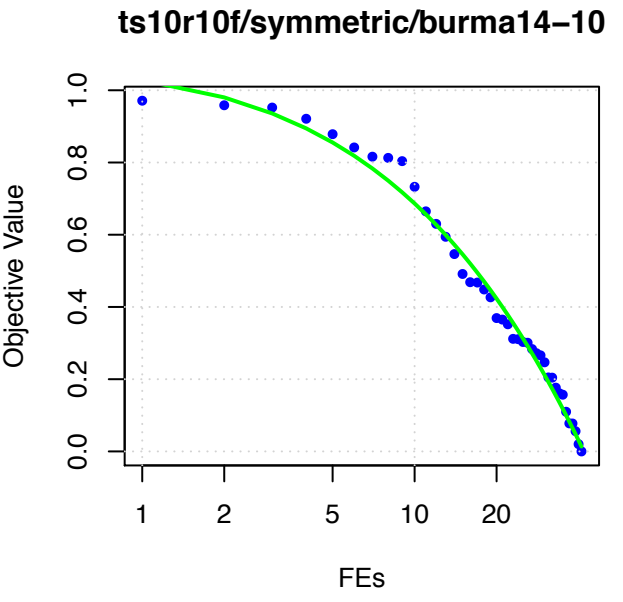
0.4
0.8
1.2
1
2
5
10
20
FEs


ts10r10f/symmetric/burma14−10
Objective Value
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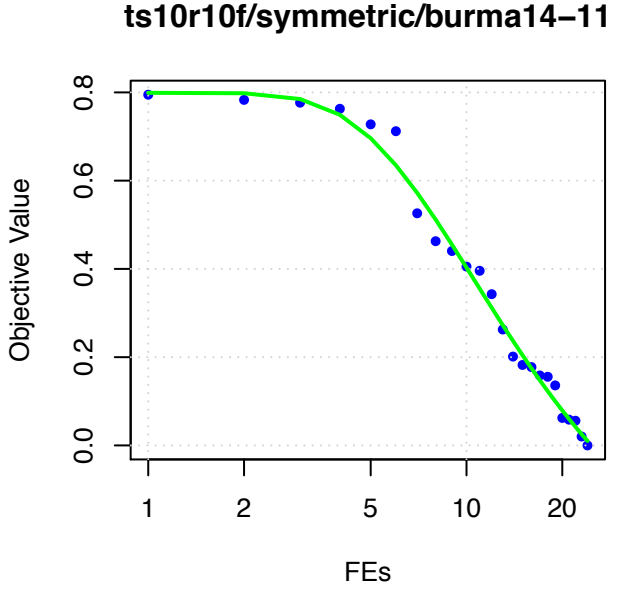
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
FEs


ts10r10f/symmetric/burma14−11
Objective Value
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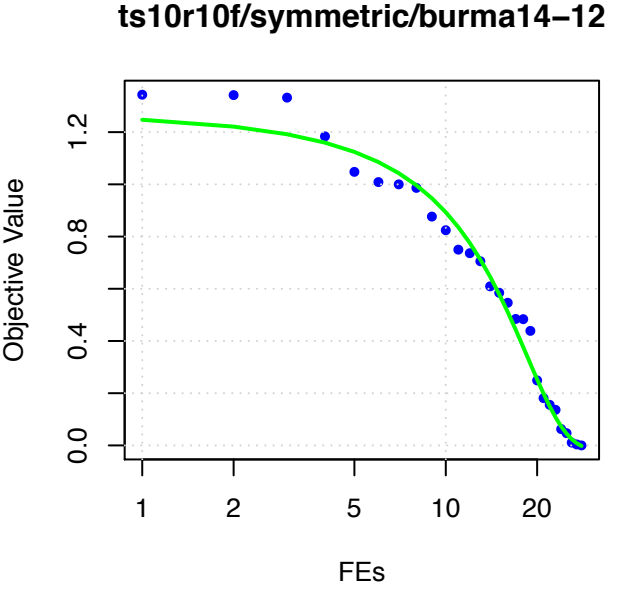
0.2
0.4
0.6
0.8
1
2
5
10
20
FEs


ts10r10f/symmetric/burma14−12
Objective Value
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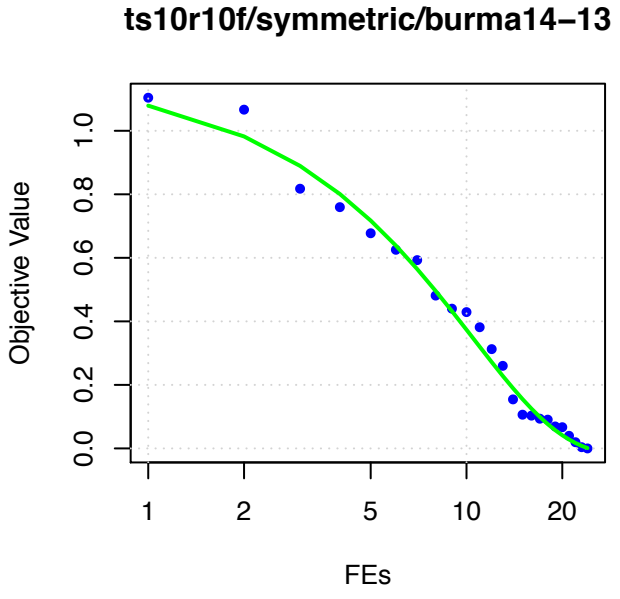
0.8
1.2
1
2
5
10
20
FEs


ts10r10f/symmetric/burma14−13
Objective Value
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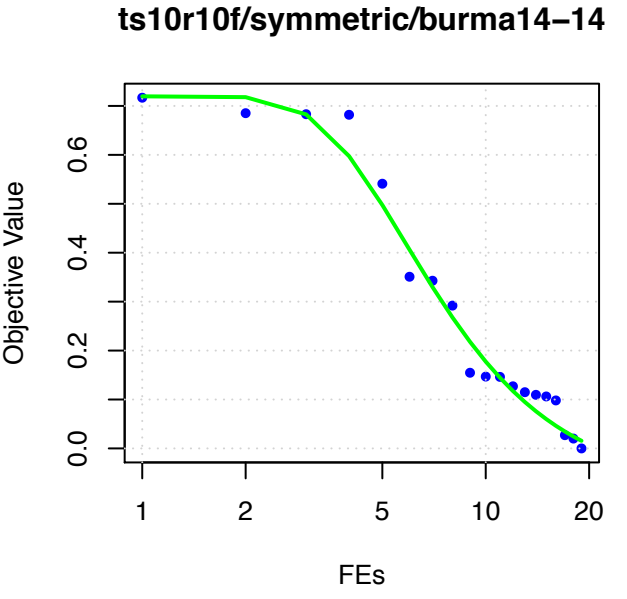
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
FEs


ts10r10f/symmetric/burma14−14
Objective Value
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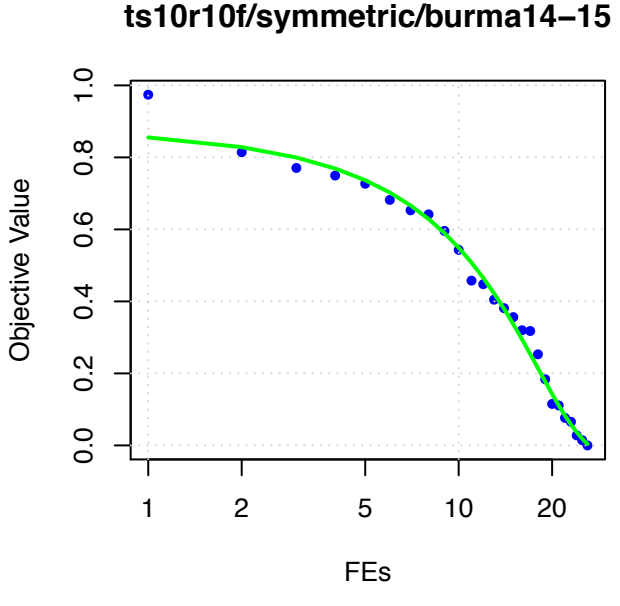
0.2
0.4
0.6
1
2
5
10
20
FEs


ts10r10f/symmetric/burma14−15
Objective Value
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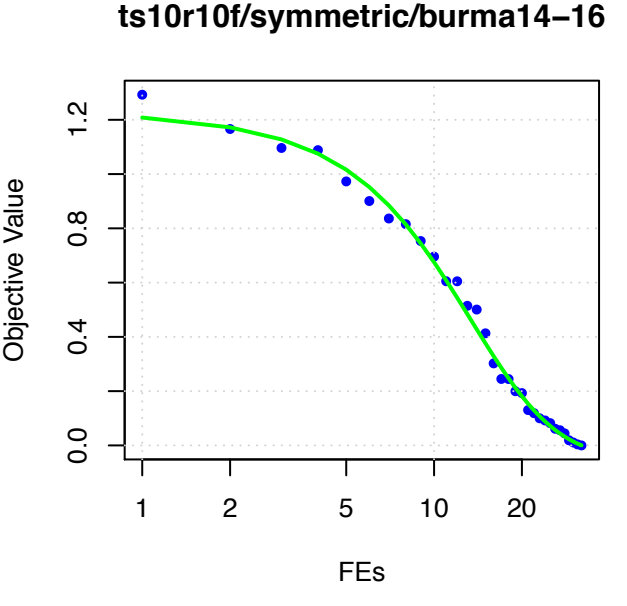
0.4
0.6
0.8
1.0
1
2
5
10
20
FEs


ts10r10f/symmetric/burma14−16
Objective Value
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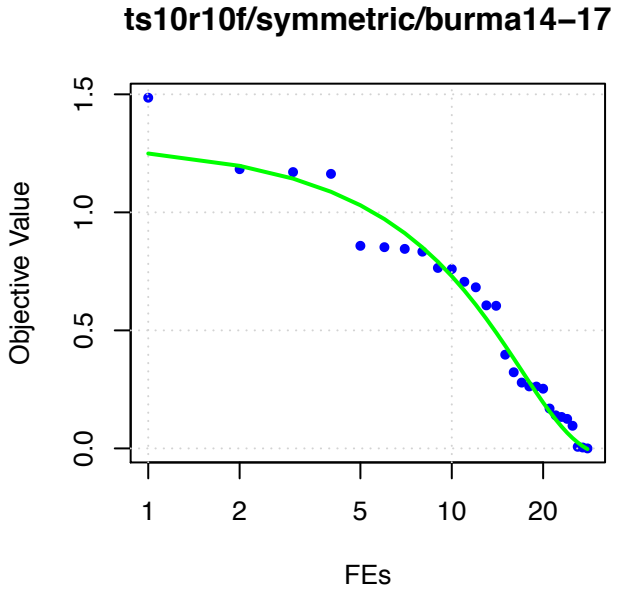
0.8
1.2
1
2
5
10
20
FEs


ts10r10f/symmetric/burma14−17
Objective Value
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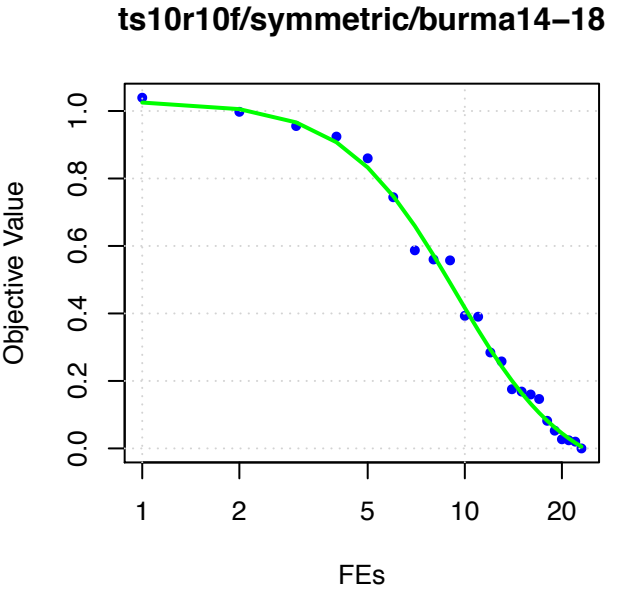
0.5
1.0
1.5
1
2
5
10
20
FEs


ts10r10f/symmetric/burma14−18
Objective Value
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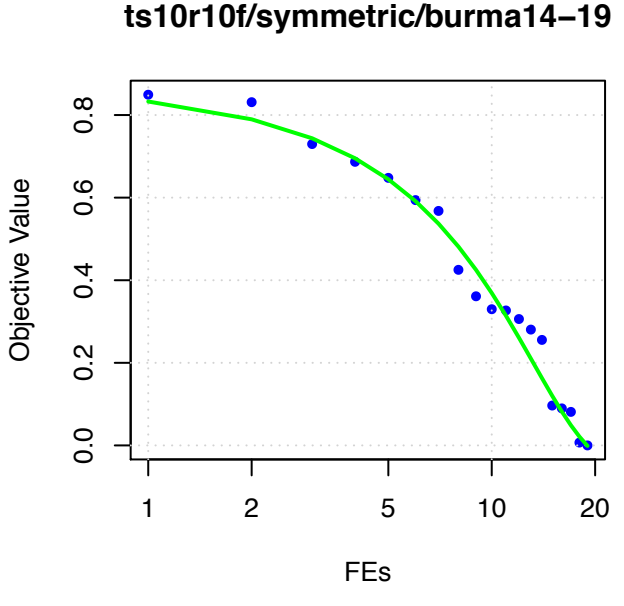
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
FEs


ts10r10f/symmetric/burma14−19
Objective Value
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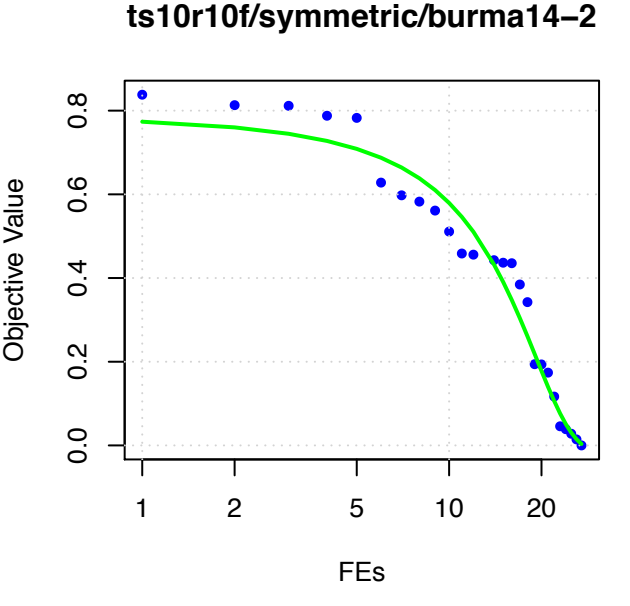
0.2
0.4
0.6
0.8
1
2
5
10
20
FEs


ts10r10f/symmetric/burma14−2
Objective Value
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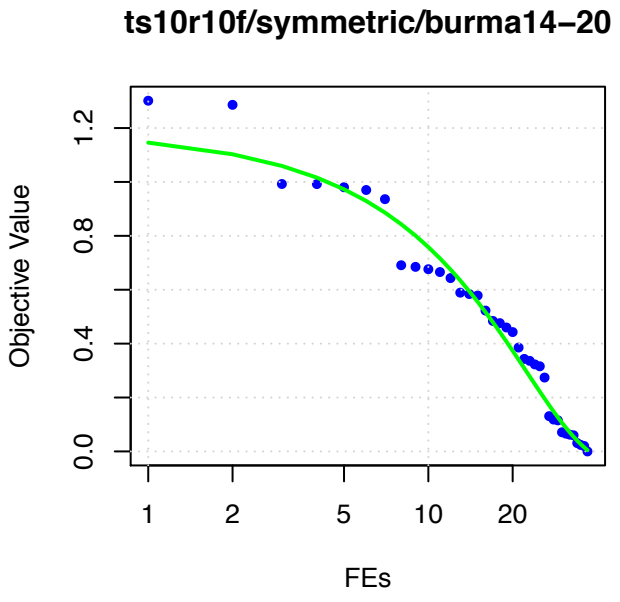
0.2
0.4
0.6
0.8
1
2
5
10
20
FEs


ts10r10f/symmetric/burma14−20
Objective Value
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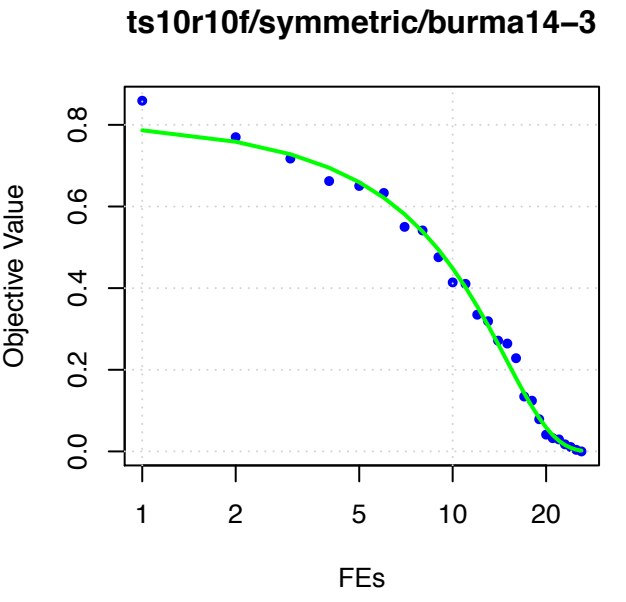
0.4
0.8
1.2
1
2
5
10
20
FEs


ts10r10f/symmetric/burma14−3
Objective Value
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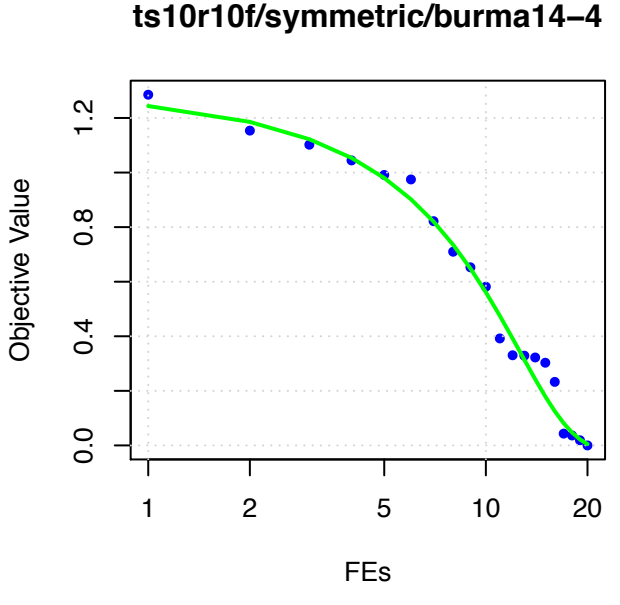
0.2
0.4
0.6
0.8
1
2
5
10
20
FEs


ts10r10f/symmetric/burma14−4
Objective Value
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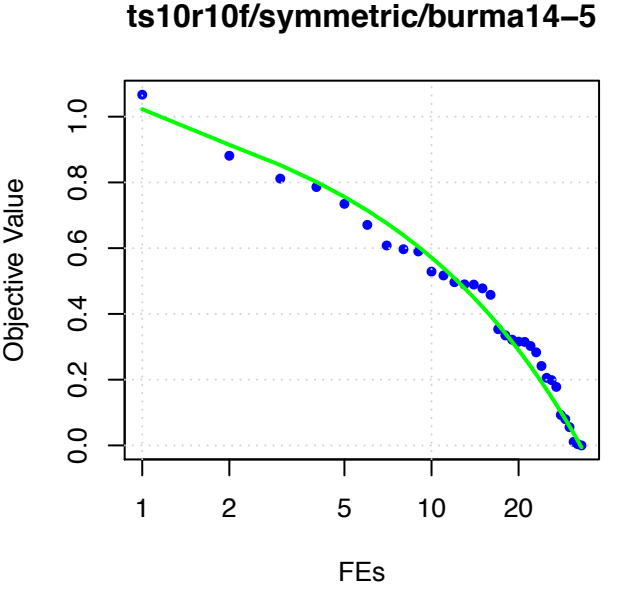
0.4
0.8
1.2
1
2
5
10
20
FEs


ts10r10f/symmetric/burma14−5
Objective Value
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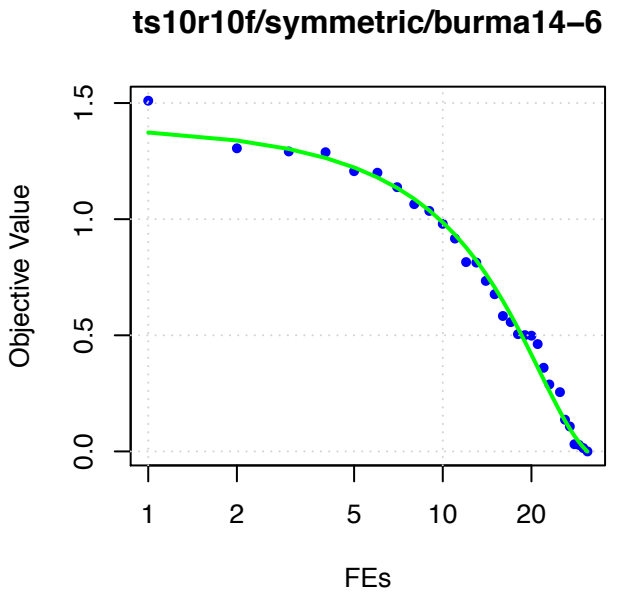
0.4
0.6
0.8
1.0
1
2
5
10
20
FEs


ts10r10f/symmetric/burma14−6
Objective Value
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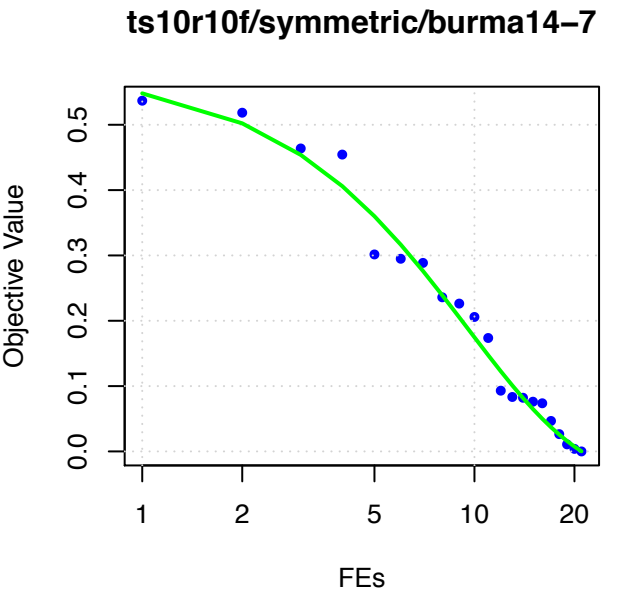
1.0
1.5
1
2
5
10
20
FEs


ts10r10f/symmetric/burma14−7
Objective Value
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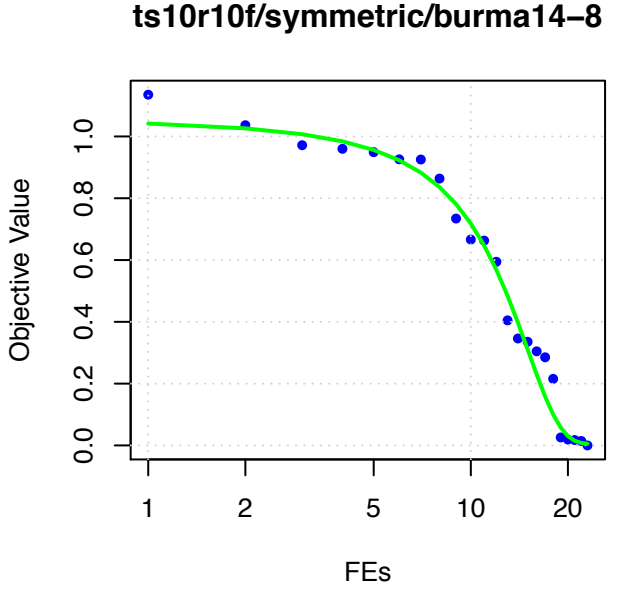
0.3
0.4
0.5
1
2
5
10
20
FEs


ts10r10f/symmetric/burma14−8
Objective Value
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0.4
0.6
0.8
1.0
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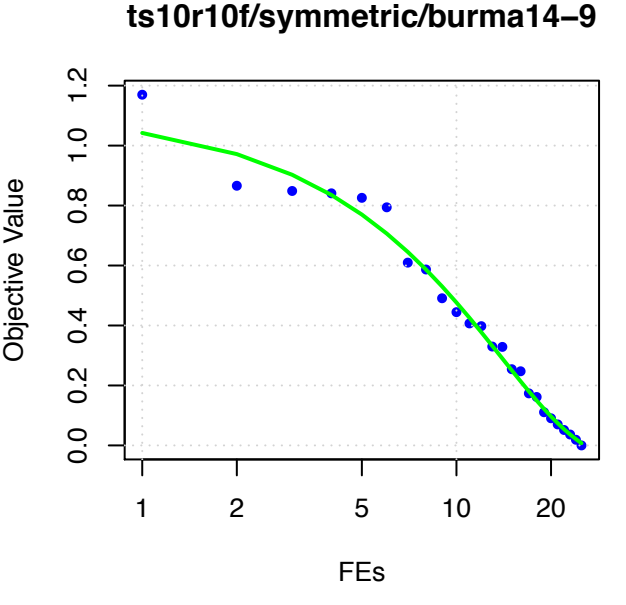
2
5
10
20
FEs


ts10r10f/symmetric/burma14−9
Objective Value
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0.6
0.8
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1.2
1
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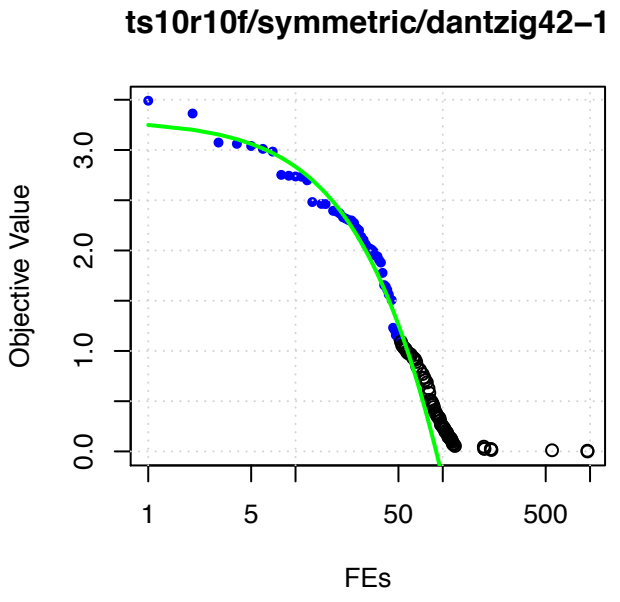
5
10
20
FEs


ts10r10f/symmetric/dantzig42−1
Objective Value
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2.0
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1
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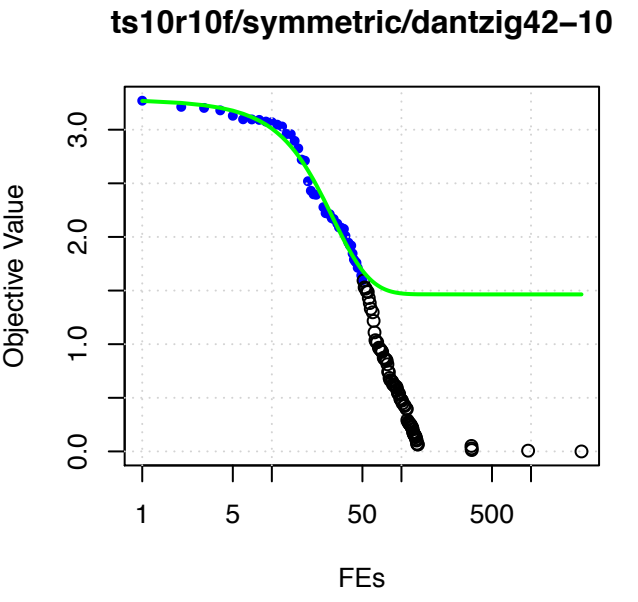
50
500
FEs


ts10r10f/symmetric/dantzig42−10
Objective Value
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2.0
3.0
1
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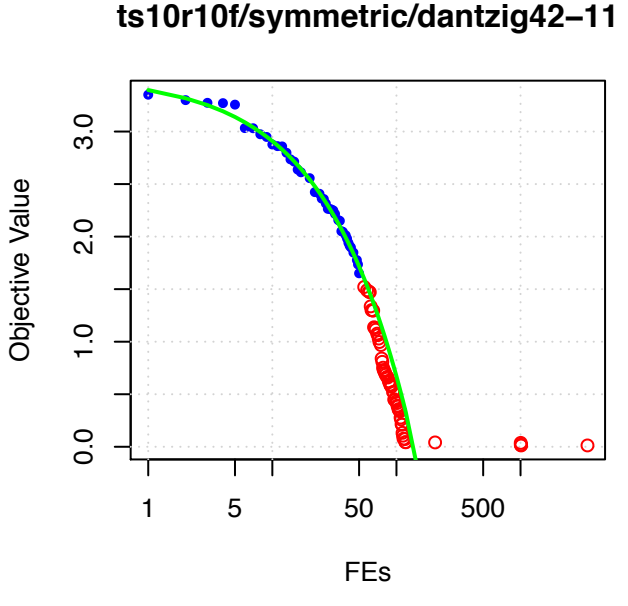
50
500
FEs


ts10r10f/symmetric/dantzig42−11
Objective Value
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2.0
3.0
1
5
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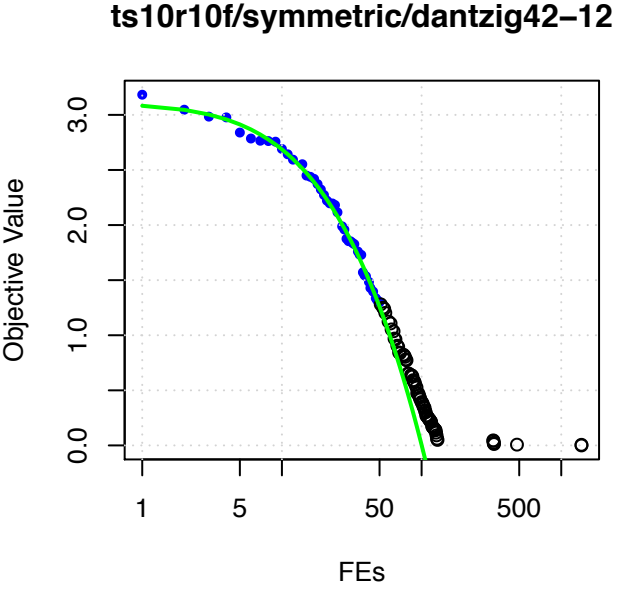
500
FEs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Objective Value
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3.0
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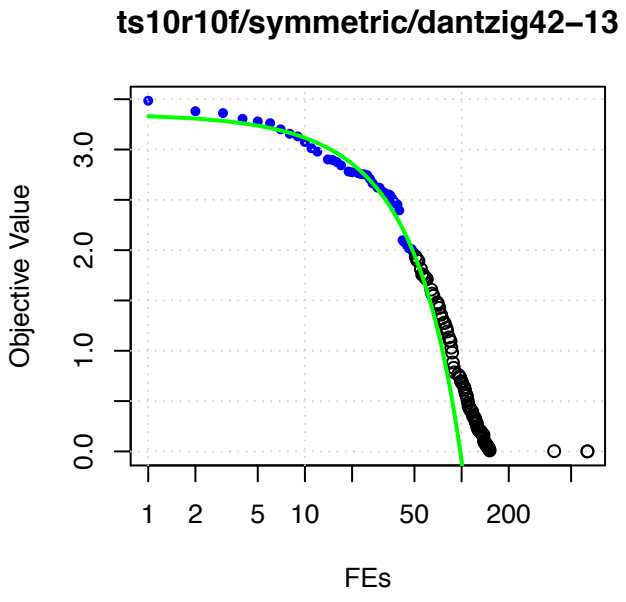
FEs


ts10r10f/symmetric/dantzig42−13
Objective Value
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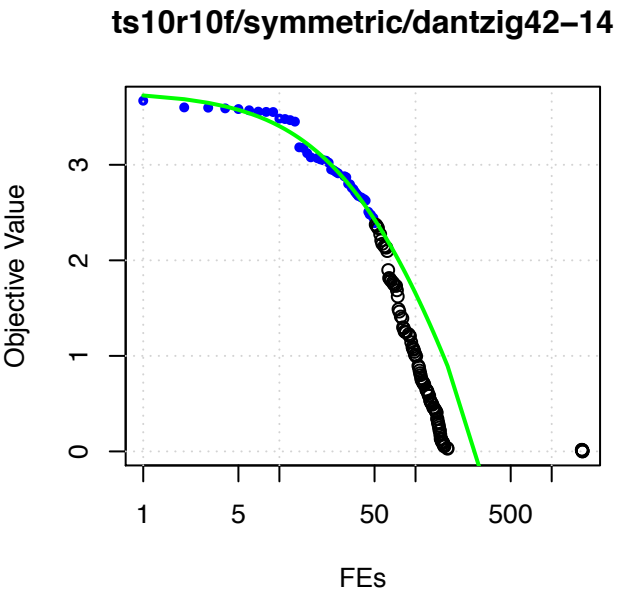
2.0
3.0
1
2
5
10
50
200
FEs


ts10r10f/symmetric/dantzig42−14
Objective Value
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1
5
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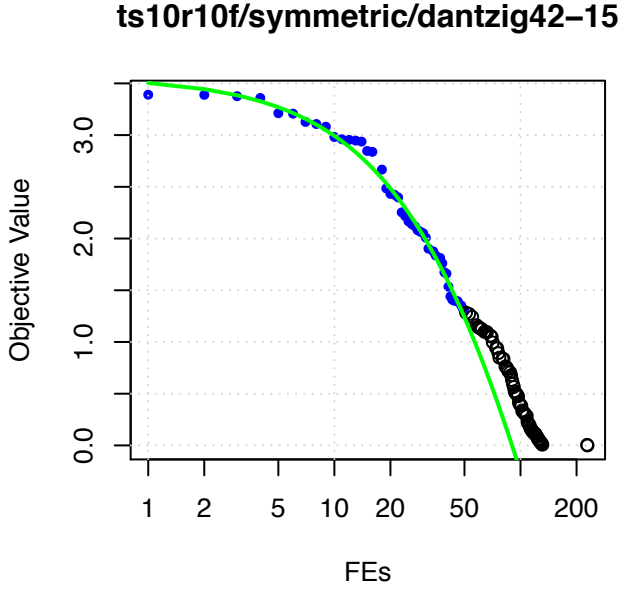
FEs


ts10r10f/symmetric/dantzig42−15
Objective Value
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2.0
3.0
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2
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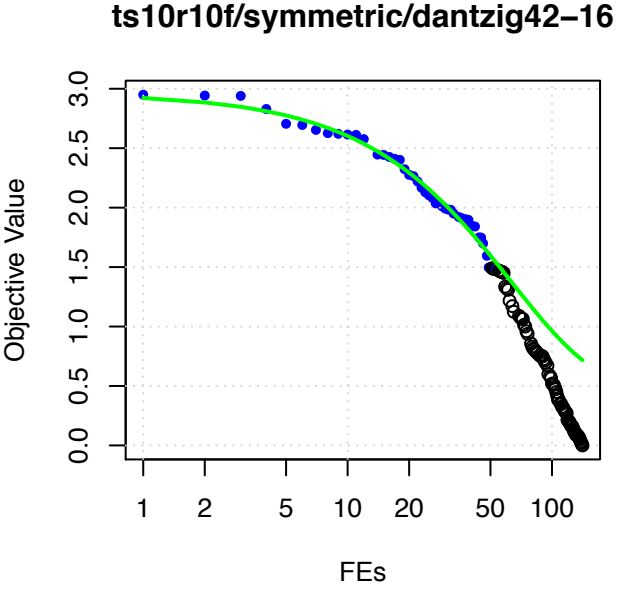
10
20
50
200
FEs


ts10r10f/symmetric/dantzig42−16
Objective Value
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1.5
2.0
2.5
3.0
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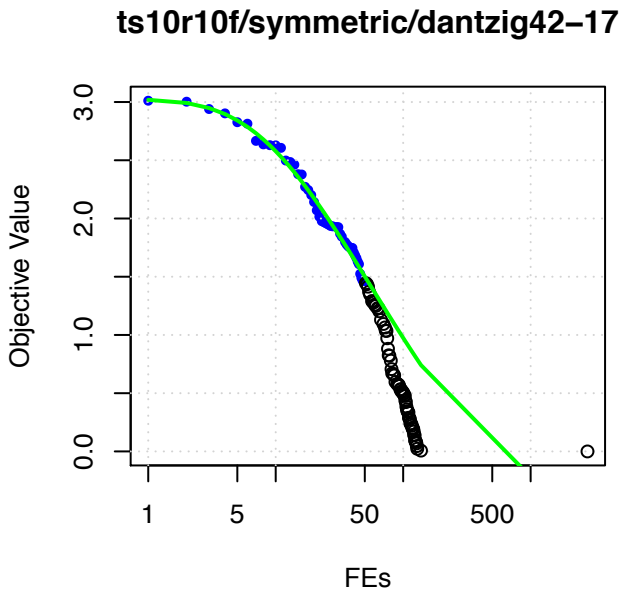
20
50
100
FEs


ts10r10f/symmetric/dantzig42−17
Objective Value
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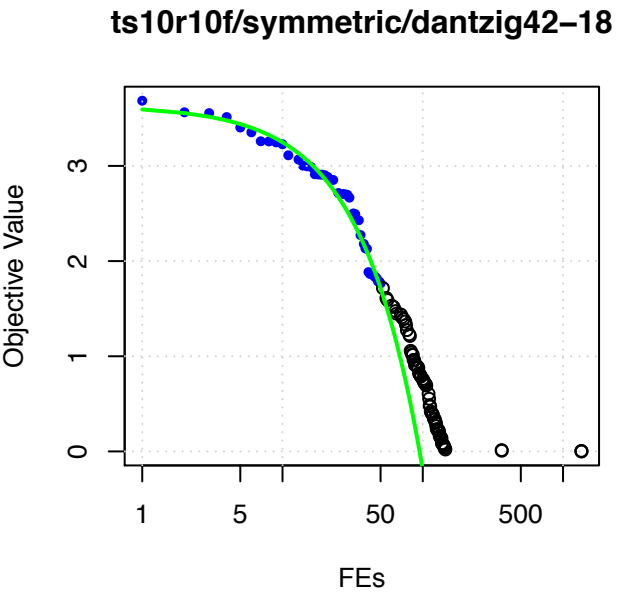
1.0
2.0
3.0
1
5
50
500
FEs


ts10r10f/symmetric/dantzig42−18
Objective Value
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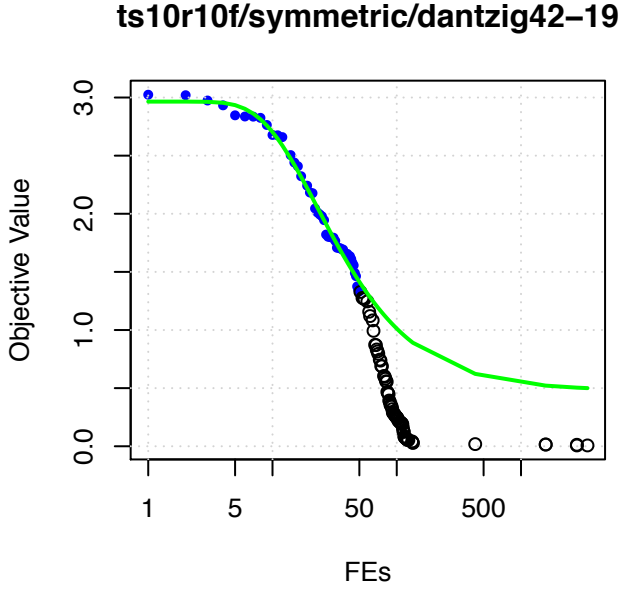
2
3
1
5
50
500
FEs


ts10r10f/symmetric/dantzig42−19
Objective Value
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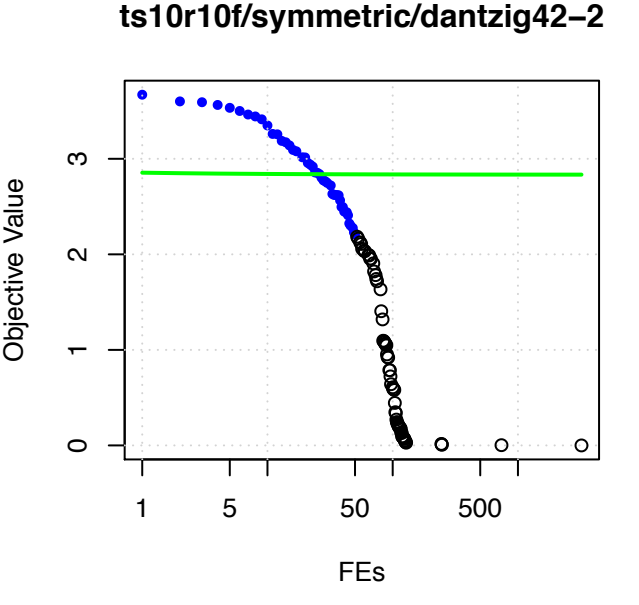
1.0
2.0
3.0
1
5
50
500
FEs


ts10r10f/symmetric/dantzig42−2
Objective Value
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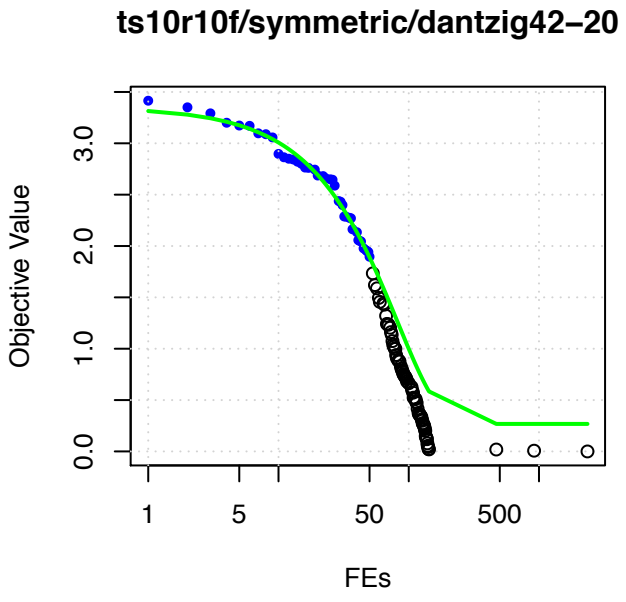
2
3
1
5
50
500
FEs


ts10r10f/symmetric/dantzig42−20
Objective Value
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2.0
3.0
1
5
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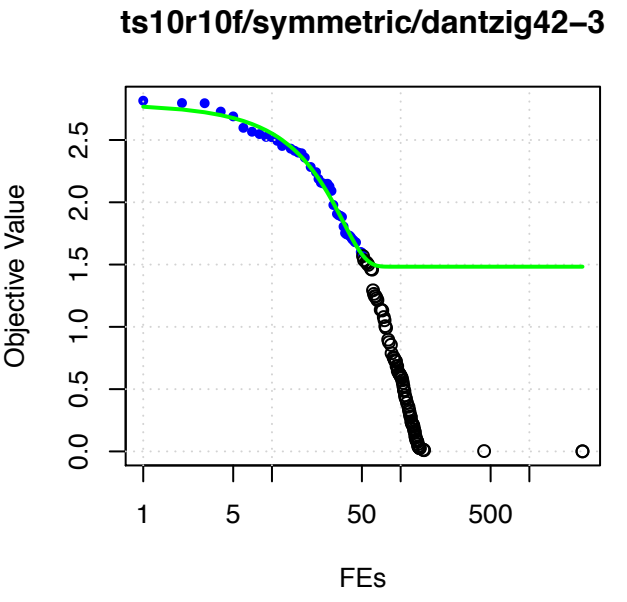
500
FEs


ts10r10f/symmetric/dantzig42−3
Objective Value
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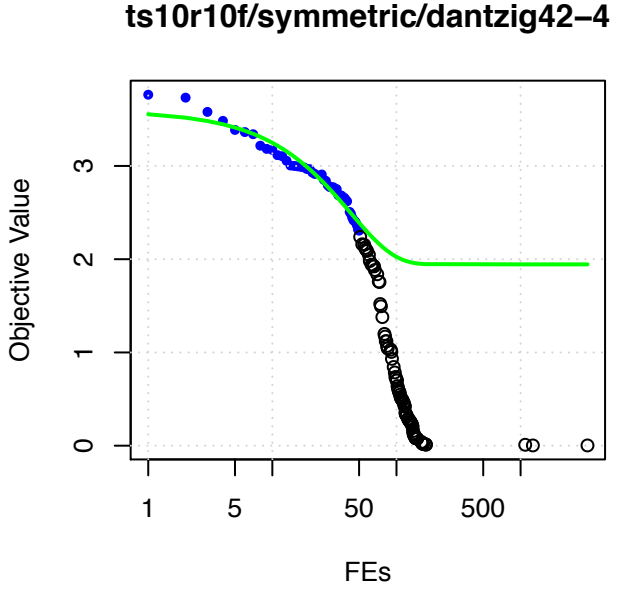
0.5
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts10r10f/symmetric/dantzig42−4
Objective Value
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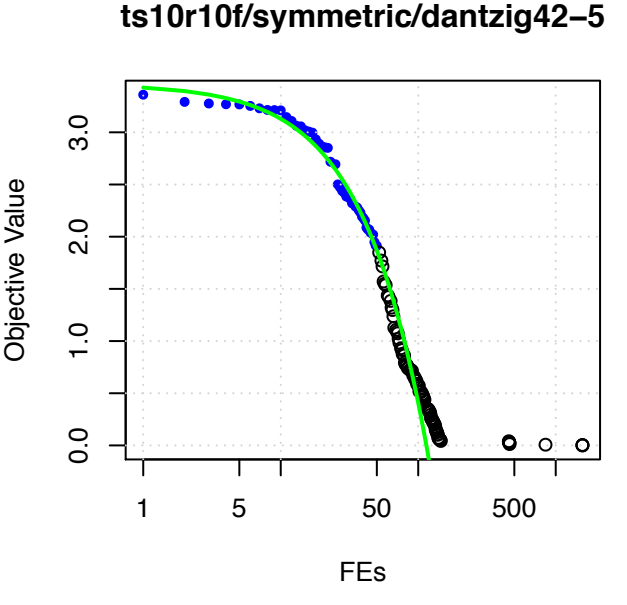
1
5
50
500
FEs


ts10r10f/symmetric/dantzig42−5
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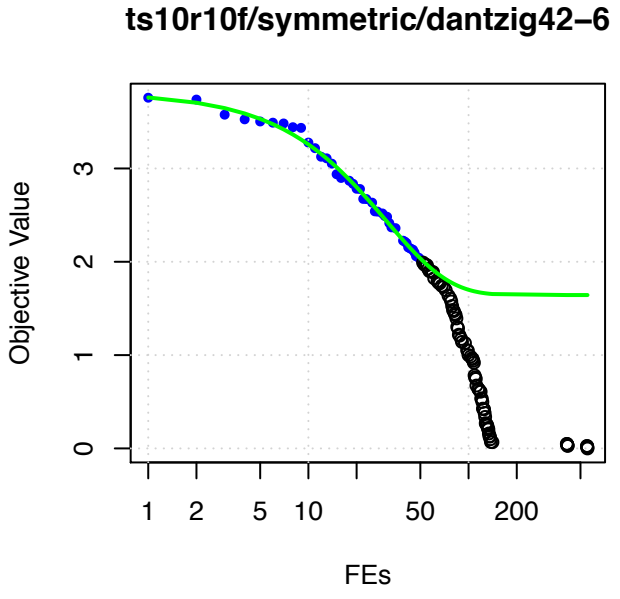
ts10r10f/symmetric/dantzig42−6
Objective Value
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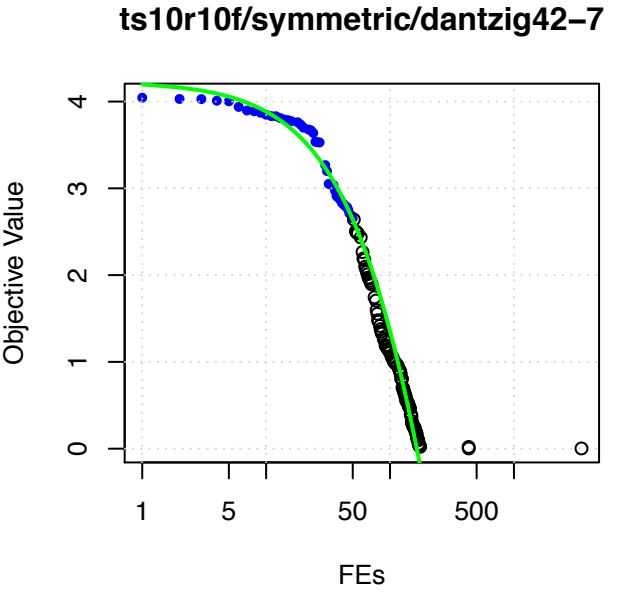
200
FEs


ts10r10f/symmetric/dantzig42−7
Objective Value
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2
3
4
1
5
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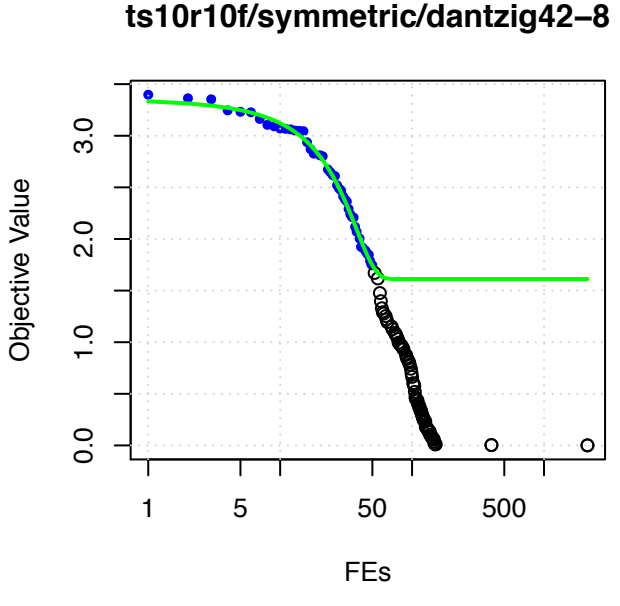
FEs


ts10r10f/symmetric/dantzig42−8
Objective Value
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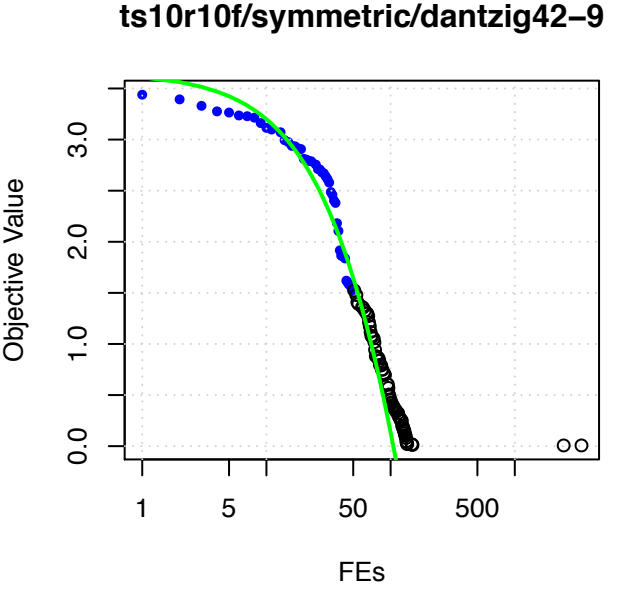
ts10r10f/symmetric/dantzig42−9
Objective Value
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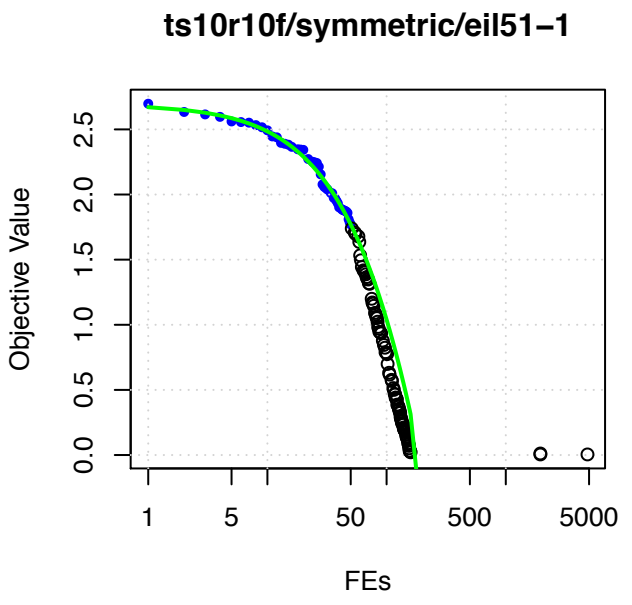
FEs


ts10r10f/symmetric/eil51−1
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1.5
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2.5
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5
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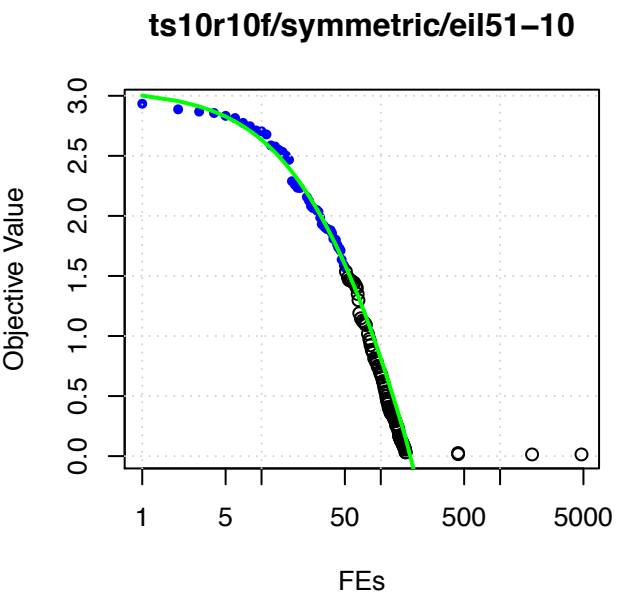
5000
FEs


ts10r10f/symmetric/eil51−10
Objective Value
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2.5
3.0
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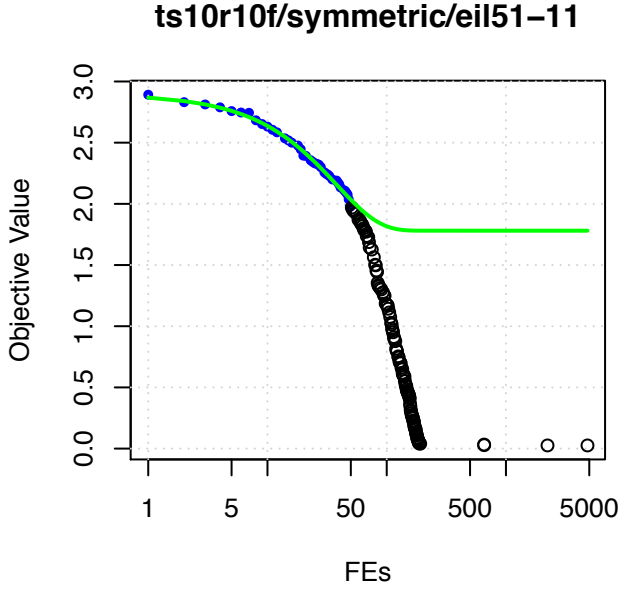
5000
FEs


ts10r10f/symmetric/eil51−11
Objective Value
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1.5
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2.5
3.0
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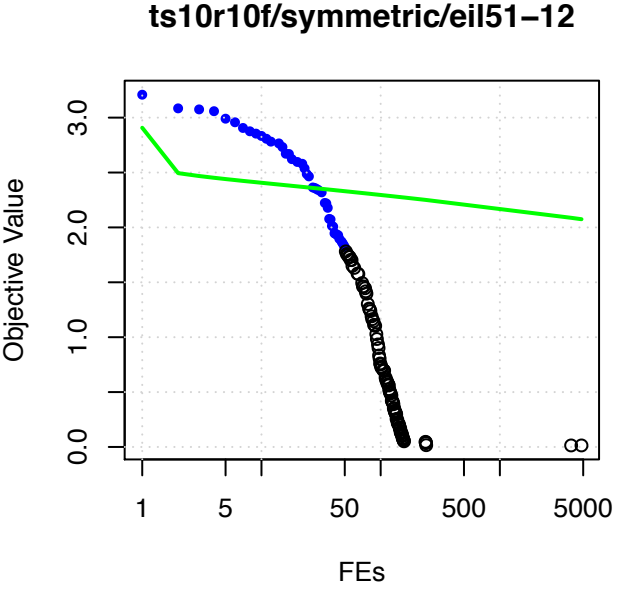
FEs


ts10r10f/symmetric/eil51−12
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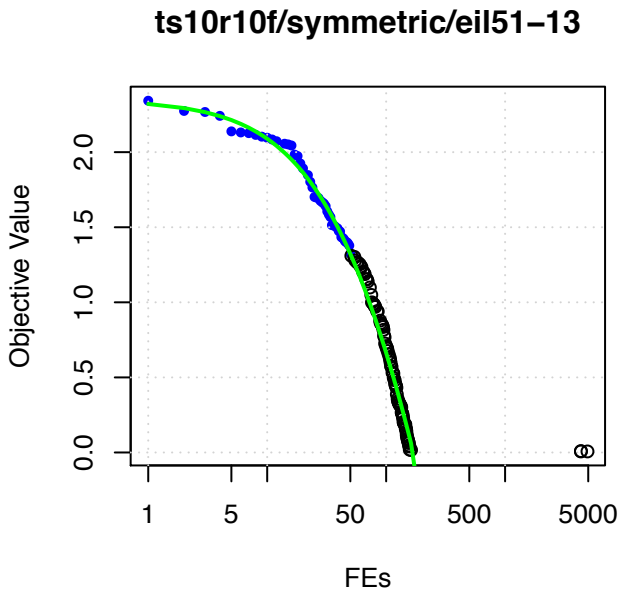
FEs


ts10r10f/symmetric/eil51−13
Objective Value
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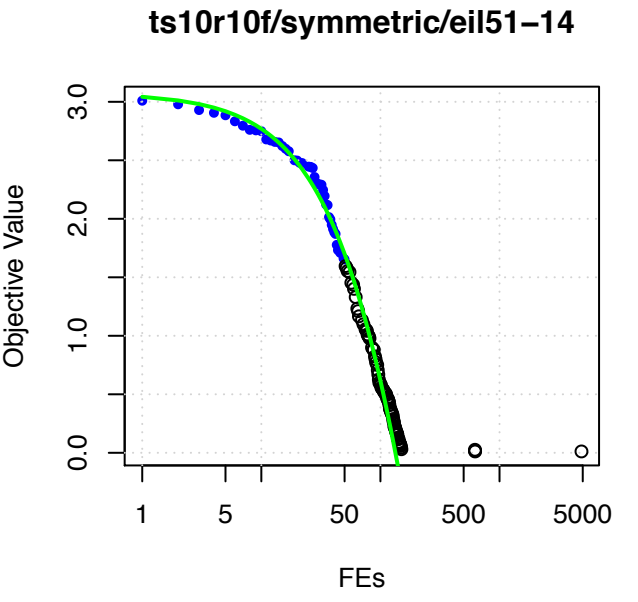
1.0
1.5
2.0
1
5
50
500
5000
FEs


ts10r10f/symmetric/eil51−14
Objective Value
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2.0
3.0
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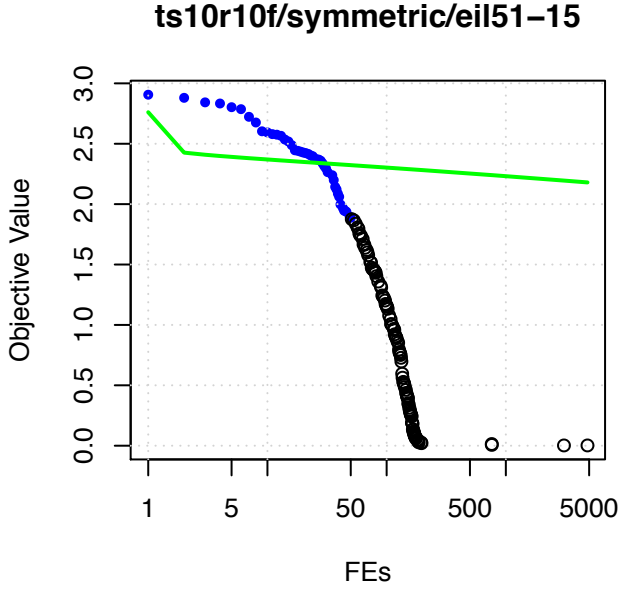
500
5000
FEs


ts10r10f/symmetric/eil51−15
Objective Value
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1.5
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2.5
3.0
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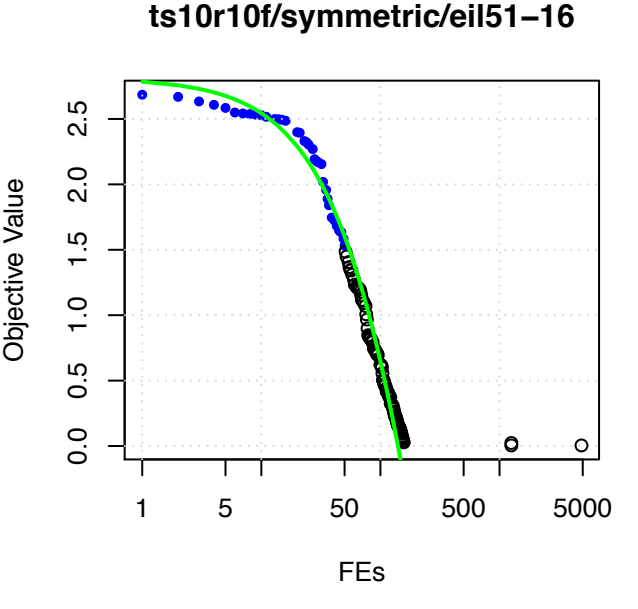
5000
FEs


ts10r10f/symmetric/eil51−16
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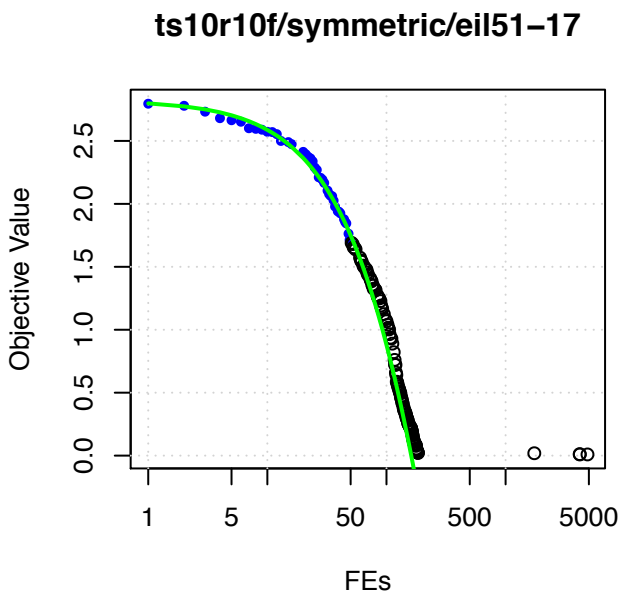
2.5
1
5
50
500
5000
FEs


ts10r10f/symmetric/eil51−17
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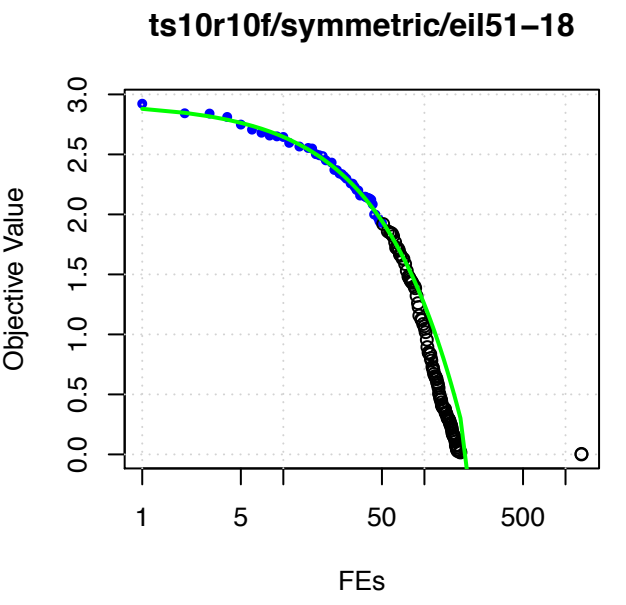
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts10r10f/symmetric/eil51−18
Objective Value
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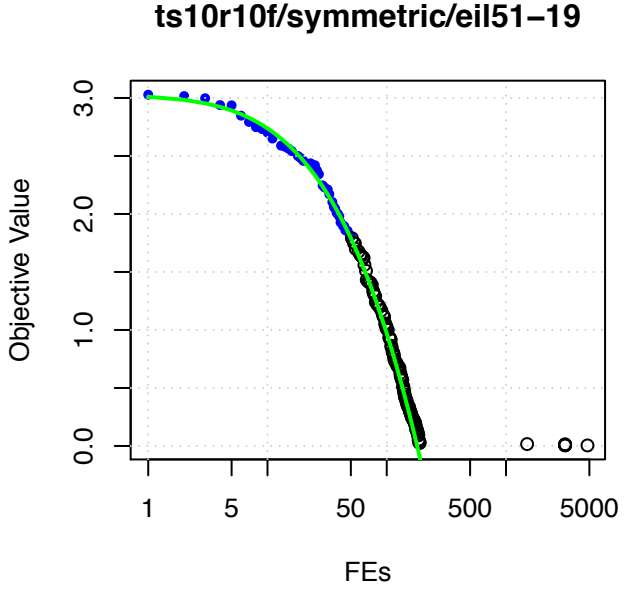
1.5
2.0
2.5
3.0
1
5
50
500
FEs


ts10r10f/symmetric/eil51−19
Objective Value
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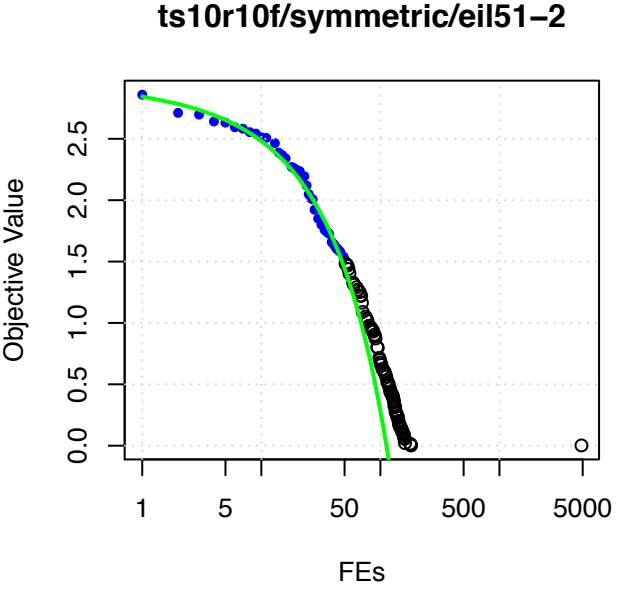
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts10r10f/symmetric/eil51−2
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2.5
1
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50
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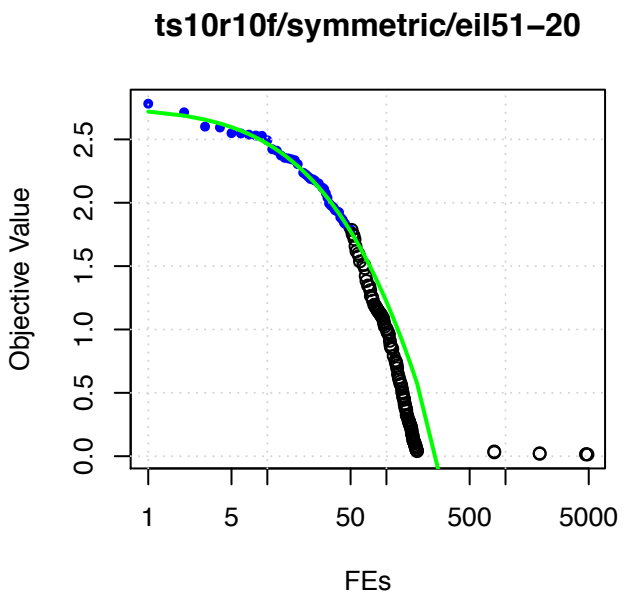
5000
FEs


ts10r10f/symmetric/eil51−20
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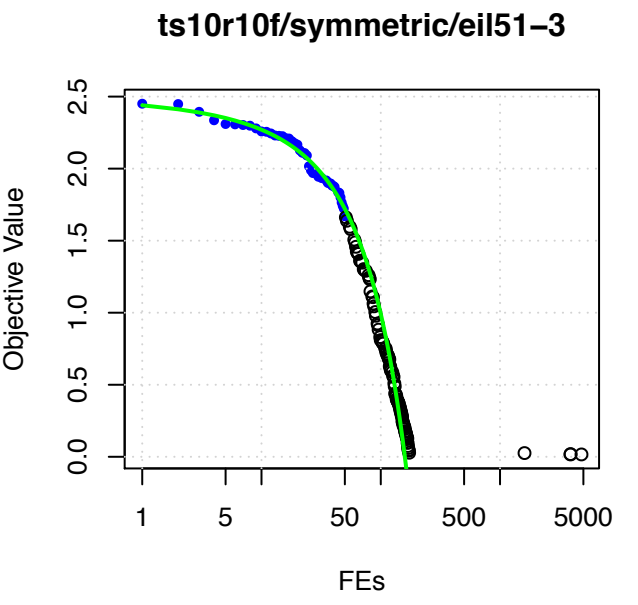
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts10r10f/symmetric/eil51−3
Objective Value
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2.5
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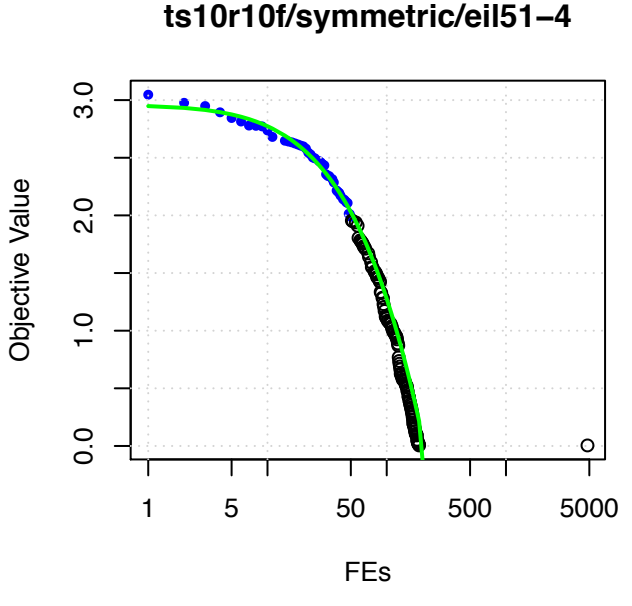
5000
FEs


ts10r10f/symmetric/eil51−4
Objective Value
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3.0
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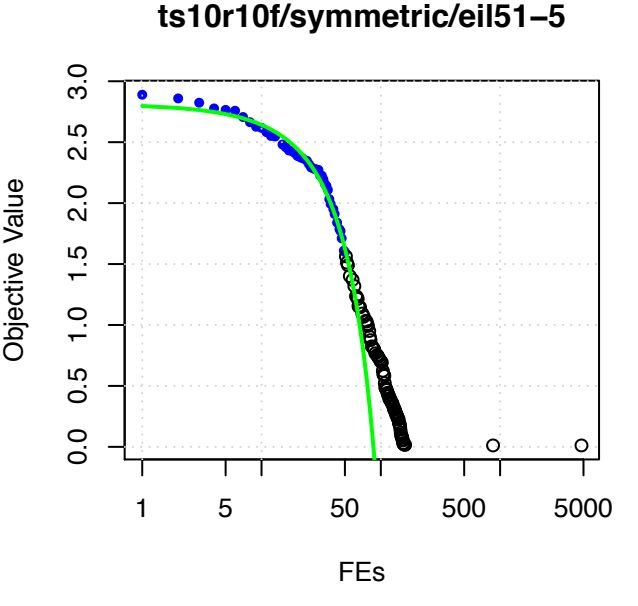
FEs


ts10r10f/symmetric/eil51−5
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2.5
3.0
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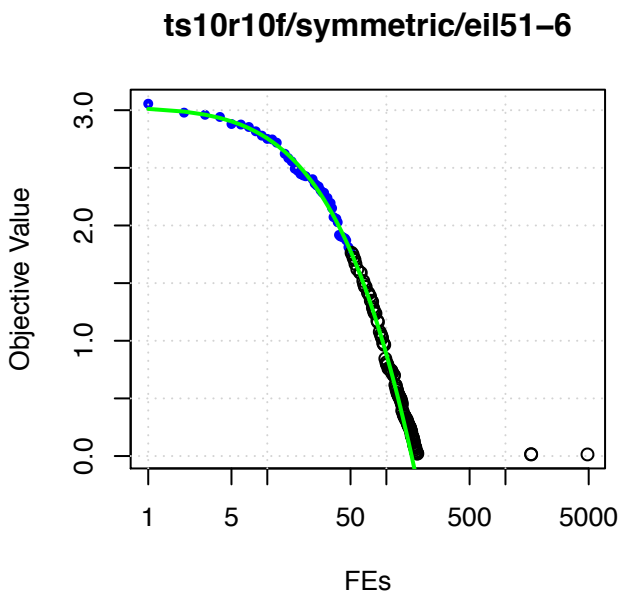
500
5000
FEs


ts10r10f/symmetric/eil51−6
Objective Value
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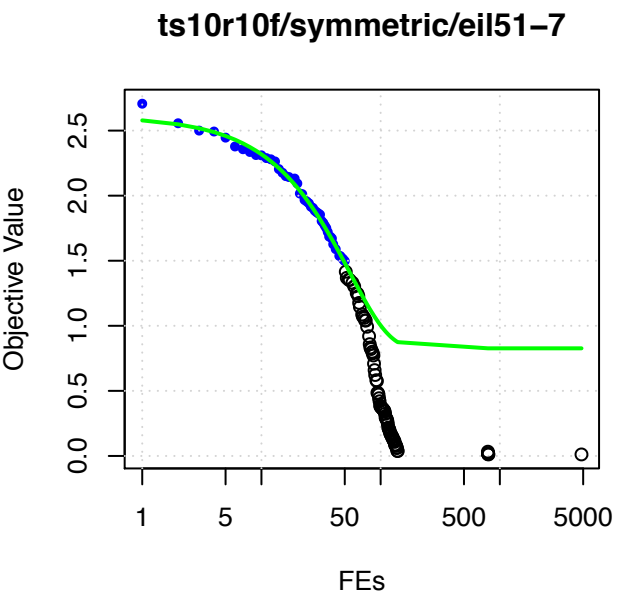
FEs


ts10r10f/symmetric/eil51−7
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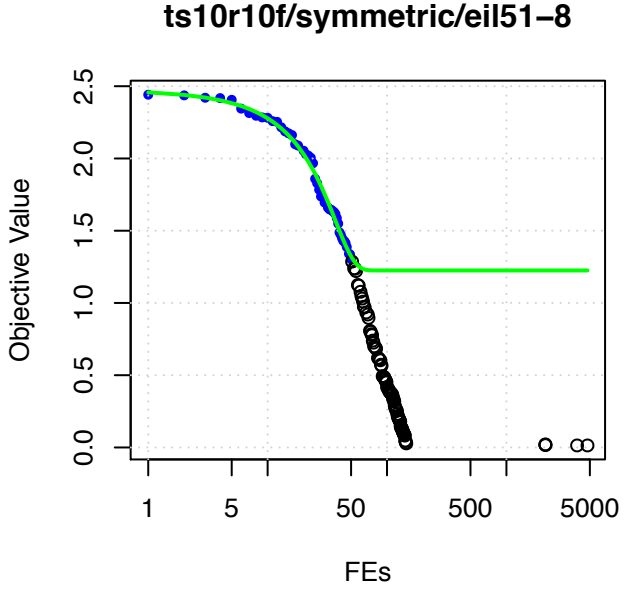
FEs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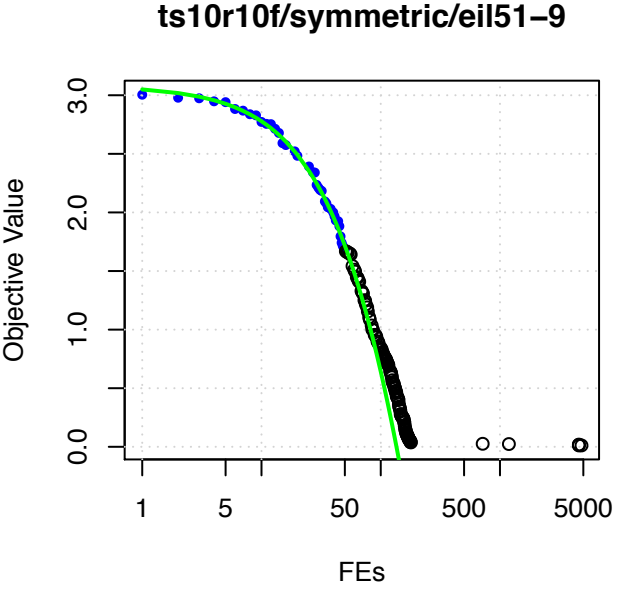
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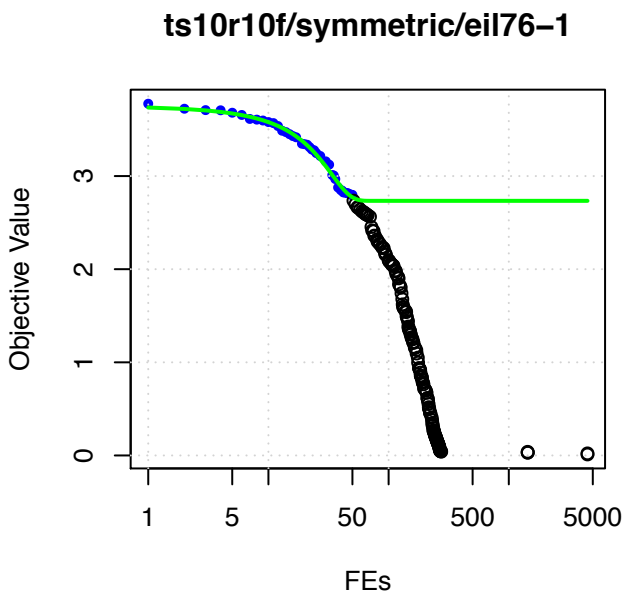
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Objective Value
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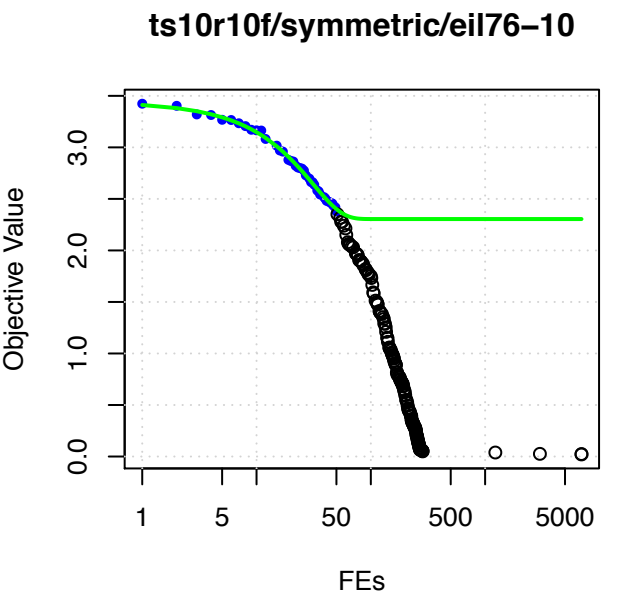
5000
FEs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3.0
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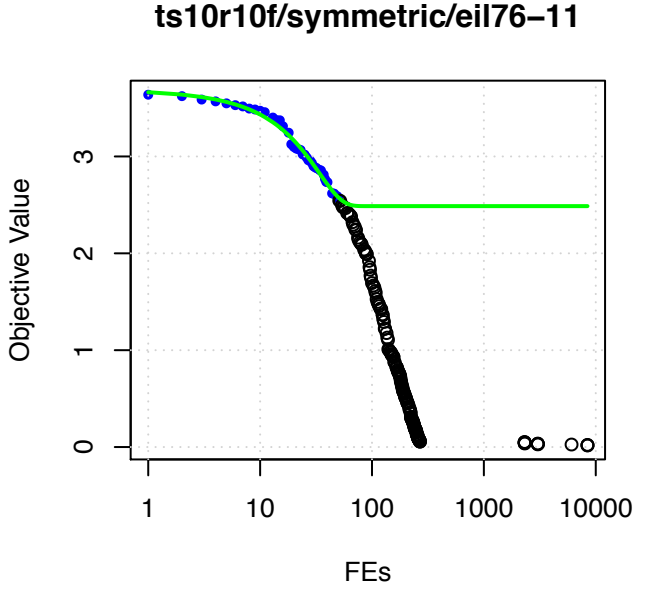
5000
FEs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Objective Value
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100
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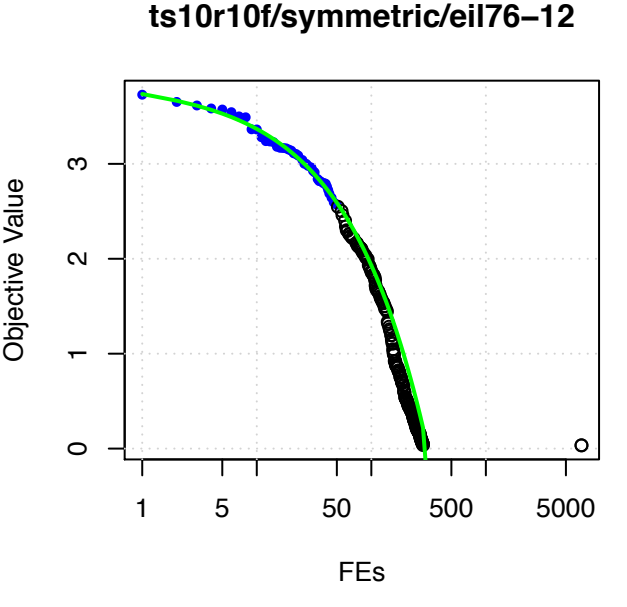
10000
FEs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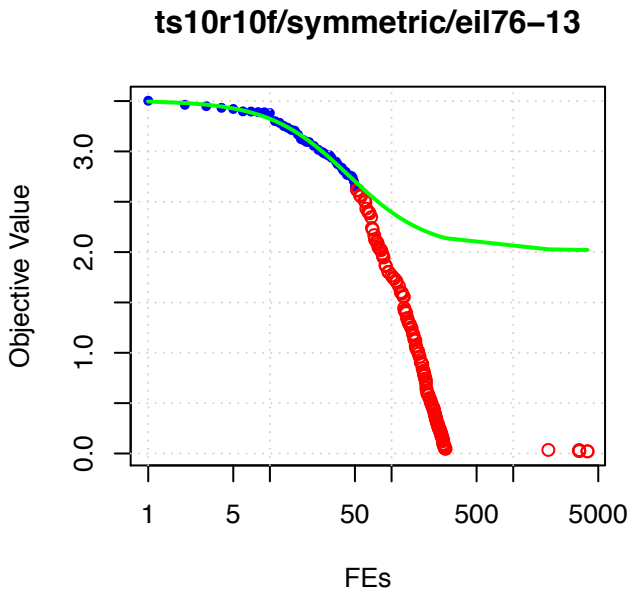
FEs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Objective Value
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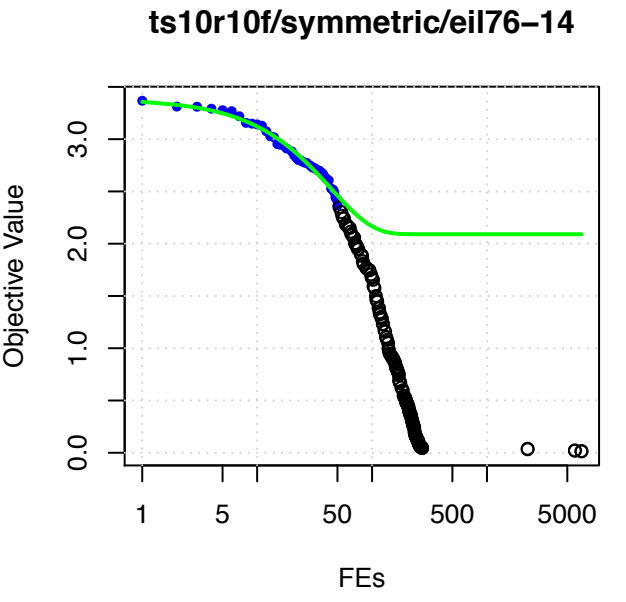
FEs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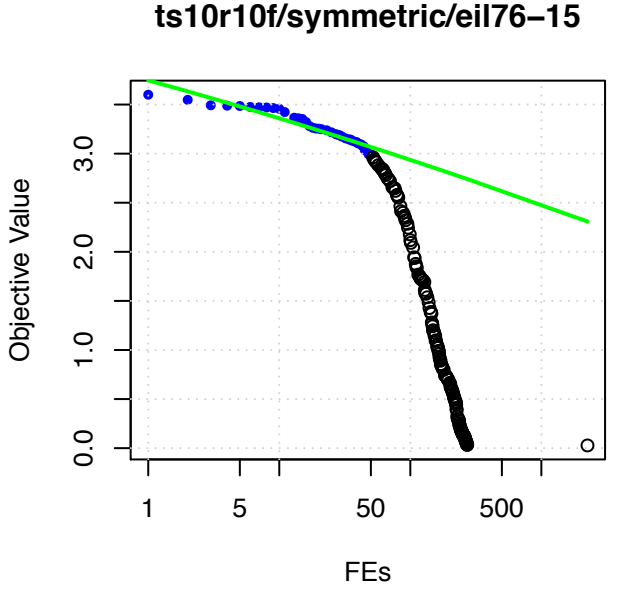
FEs


ts10r10f/symmetric/eil76−15
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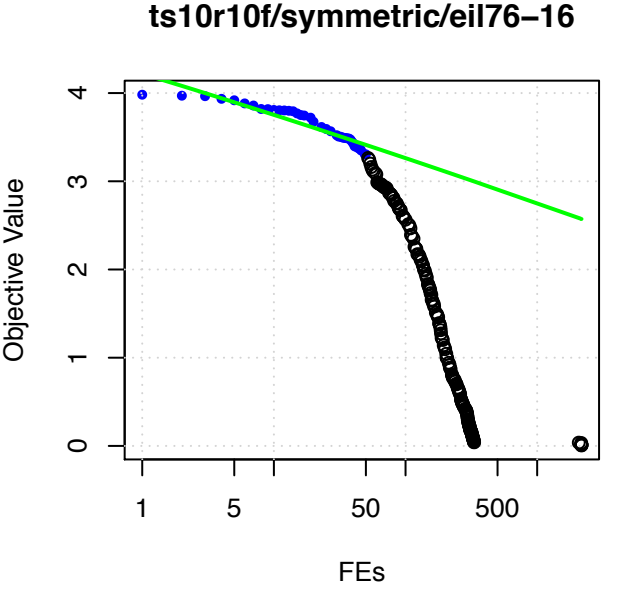
FEs


ts10r10f/symmetric/eil76−16
Objective Value
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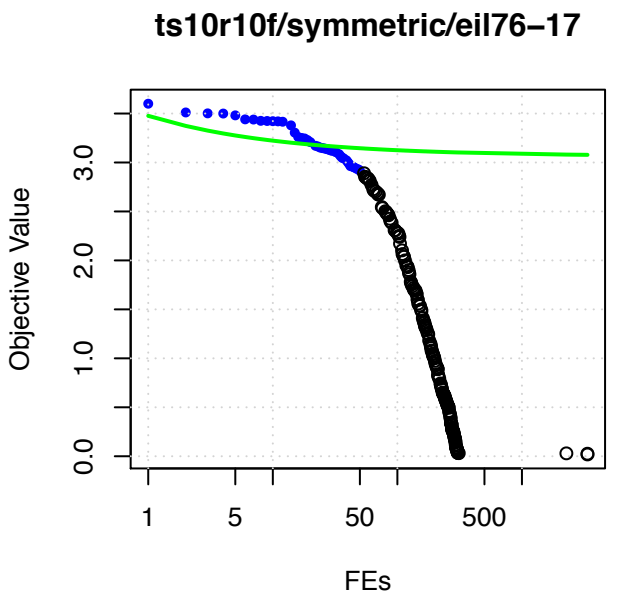
FEs


ts10r10f/symmetric/eil76−17
Objective Value
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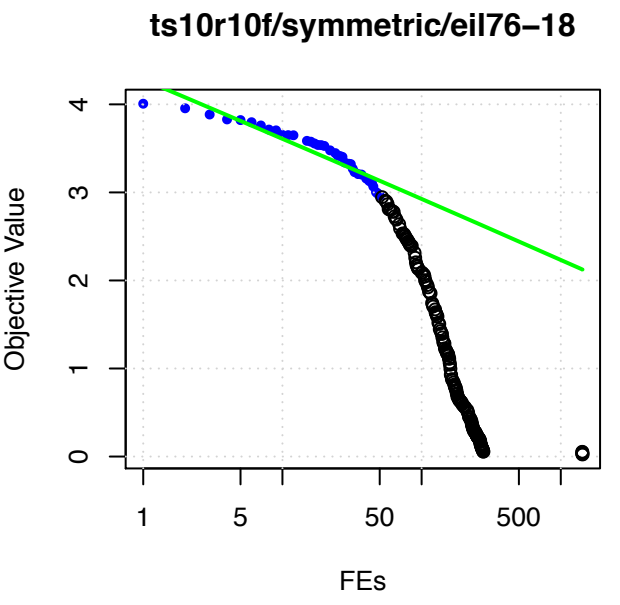
FEs


ts10r10f/symmetric/eil76−18
Objective Value
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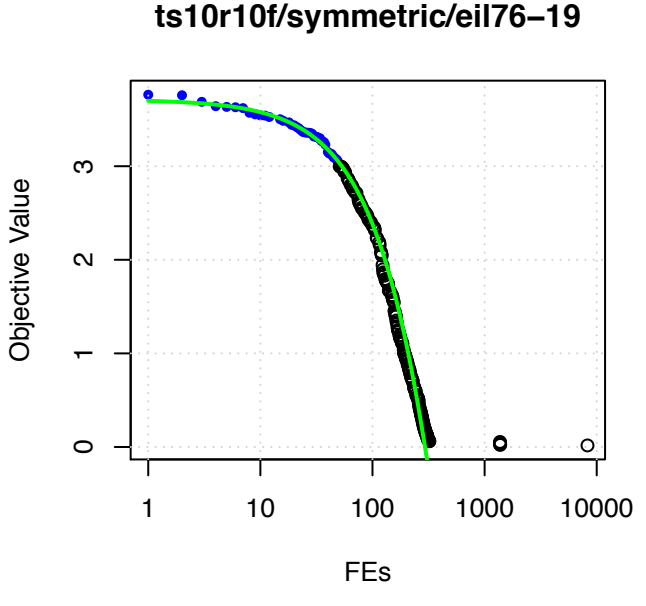
FEs


ts10r10f/symmetric/eil76−19
Objective Value
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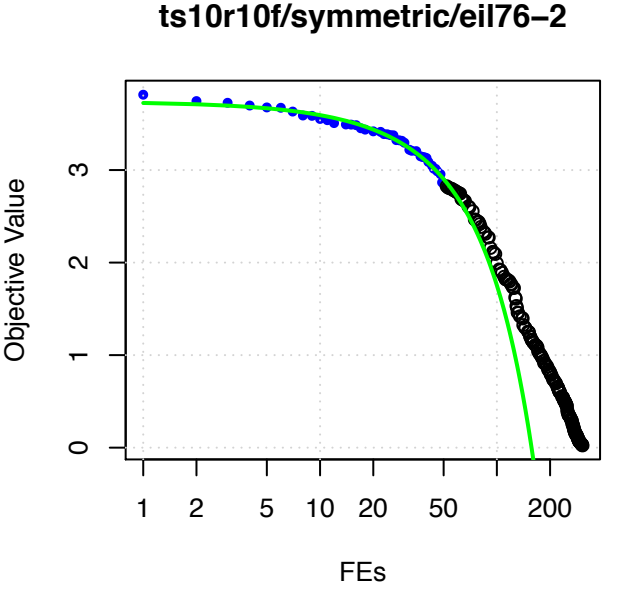
100
1000
10000
FEs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Objective Value
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2
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10
20
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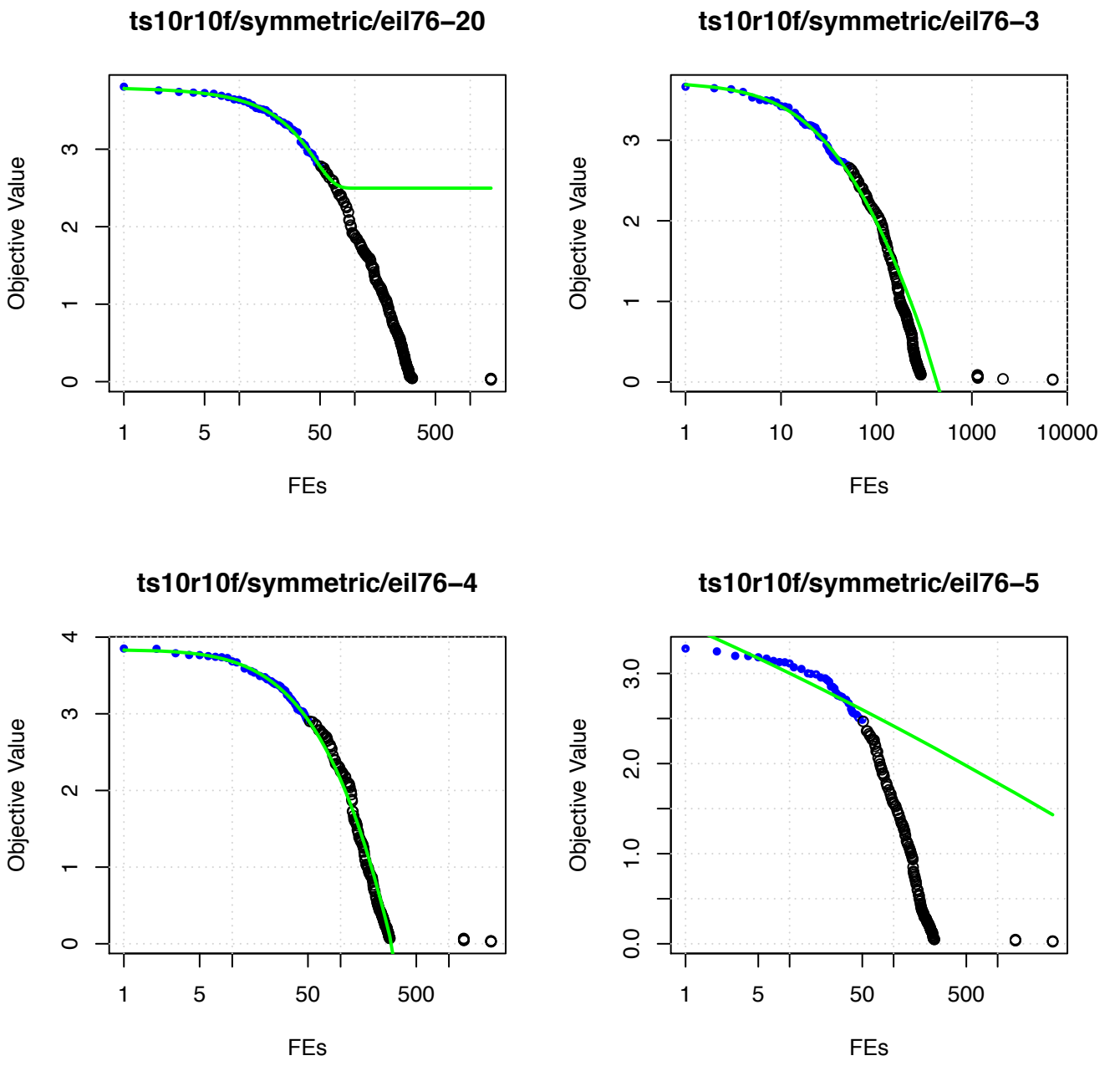
200
FEs


ts10r10f/symmetric/eil76−20
Objective Value
FEs
ts10r10f/symmetric/eil76−3
Objective Value
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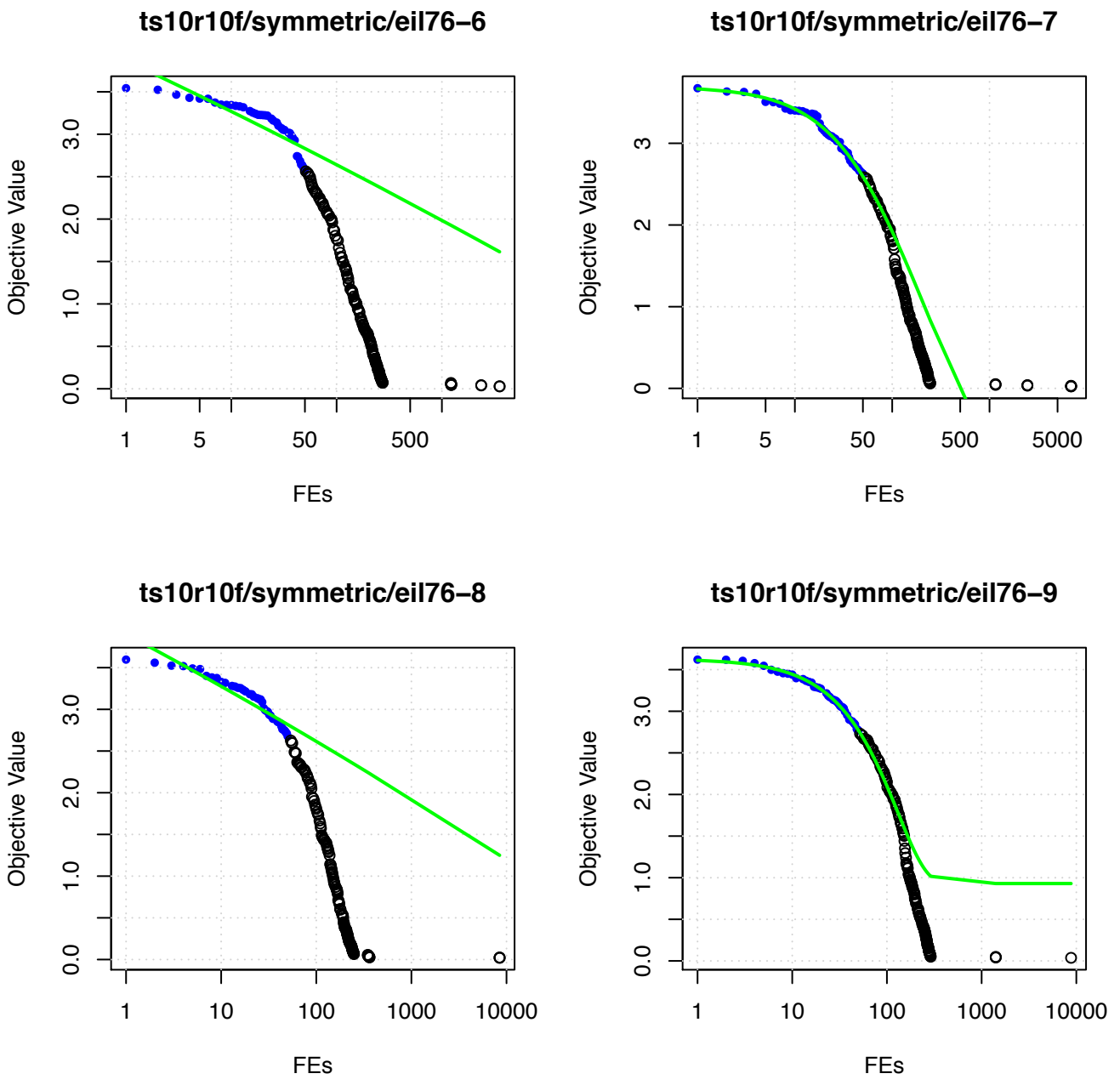
ts10r10f/symmetric/eil76−4
Objective Value
FEs
ts10r10f/symmetric/eil76−5
Objective Value
FEs


ts10r10f/symmetric/eil76−6
Objective Value
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FEs
ts10r10f/symmetric/eil76−7
Objective Value
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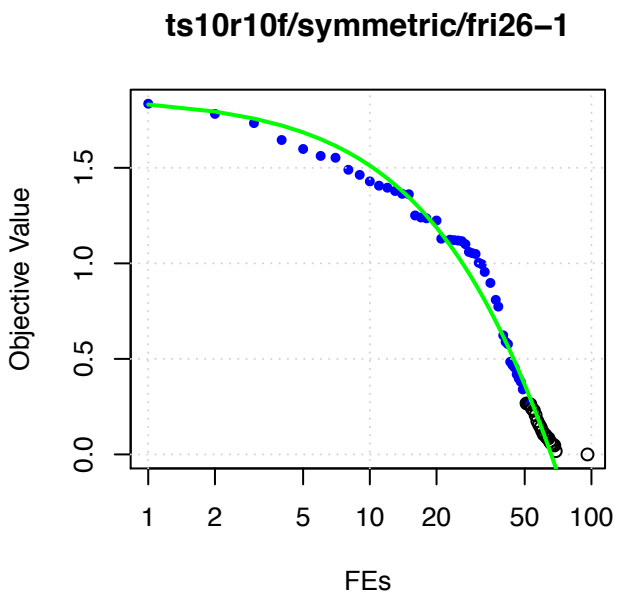
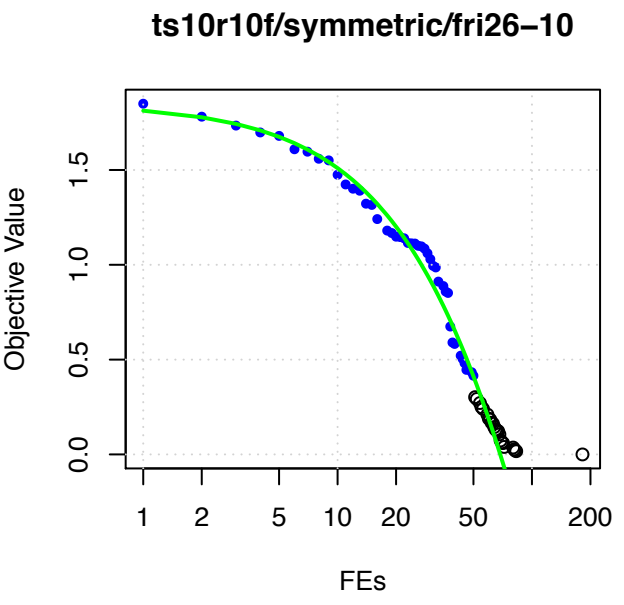
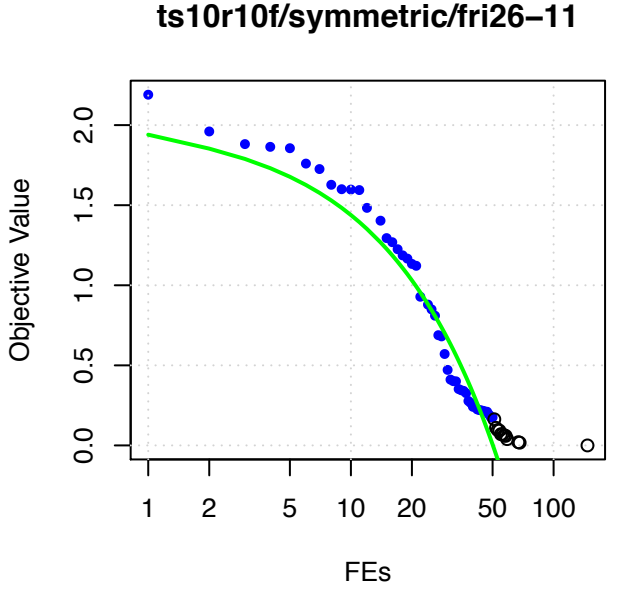
5000
FEs
ts10r10f/symmetric/eil76−8
Objective Value
0.0
1.0
2.0
3.0
1
10
100
1000
10000
FEs
ts10r10f/symmetric/eil76−9
Objective Value
0.0
1.0
2.0
3.0
1
10
100
1000
10000
FEs


ts10r10f/symmetric/fri26−1
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
100
FEs


ts10r10f/symmetric/fri26−10
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
200
FEs


ts10r10f/symmetric/fri26−11
Objective Value
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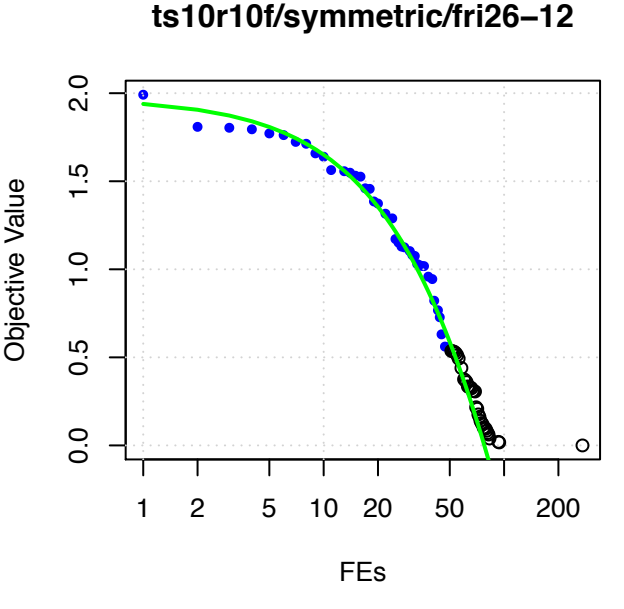
0.5
1.0
1.5
2.0
1
2
5
10
20
50
100
FEs


ts10r10f/symmetric/fri26−12
Objective Value
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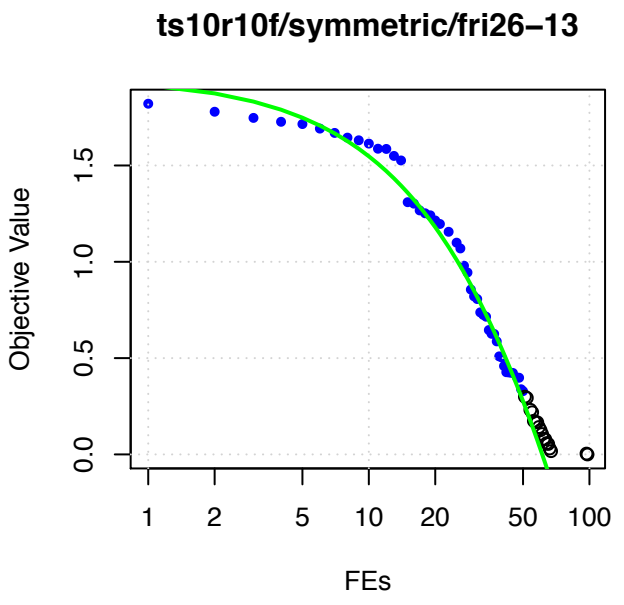
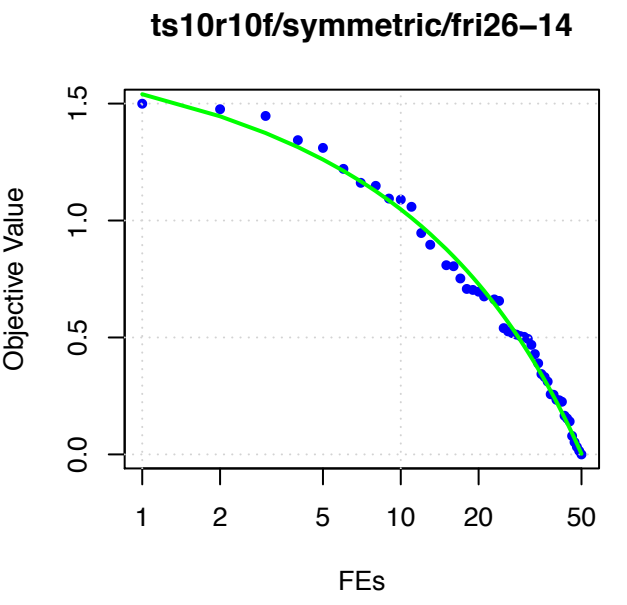
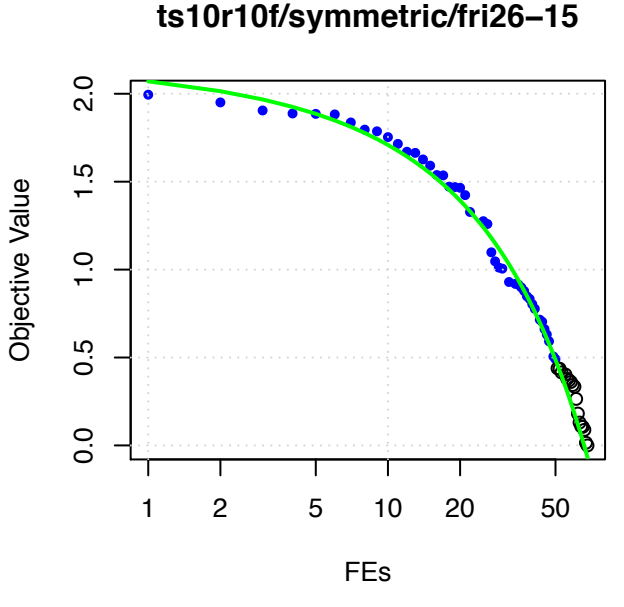
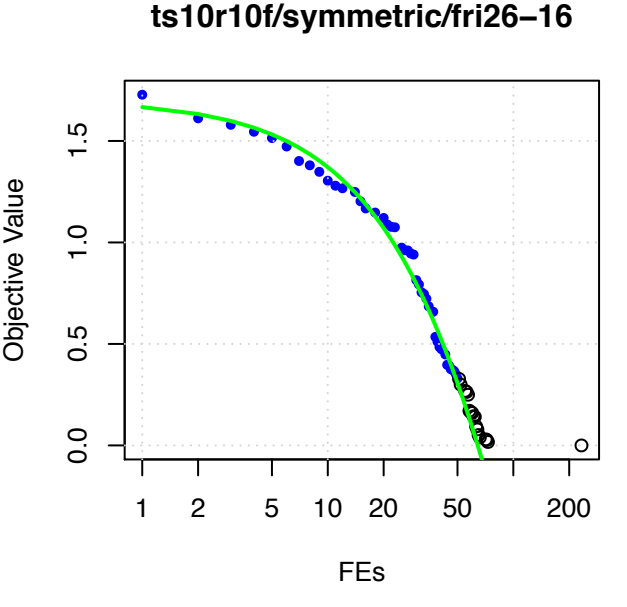
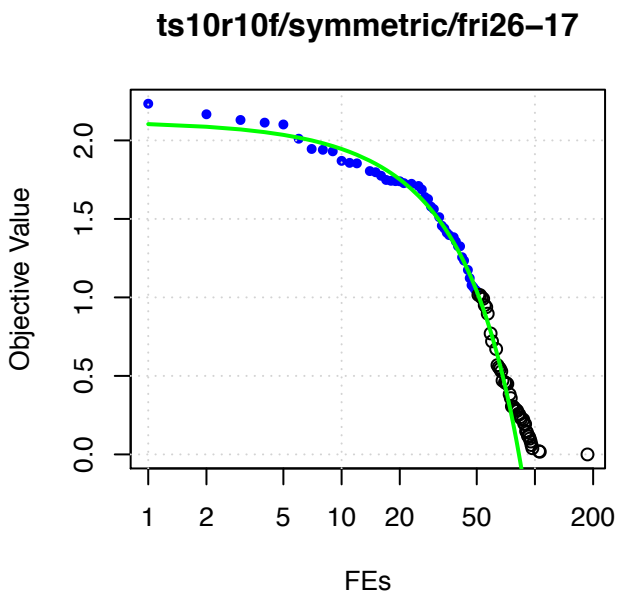
0.5
1.0
1.5
2.0
1
2
5
10
20
50
200
FEs


ts10r10f/symmetric/fri26−13
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
100
FEs


ts10r10f/symmetric/fri26−14
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts10r10f/symmetric/fri26−15
Objective Value
0.0
0.5
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts10r10f/symmetric/fri26−16
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
200
FEs


ts10r10f/symmetric/fri26−17
Objective Value
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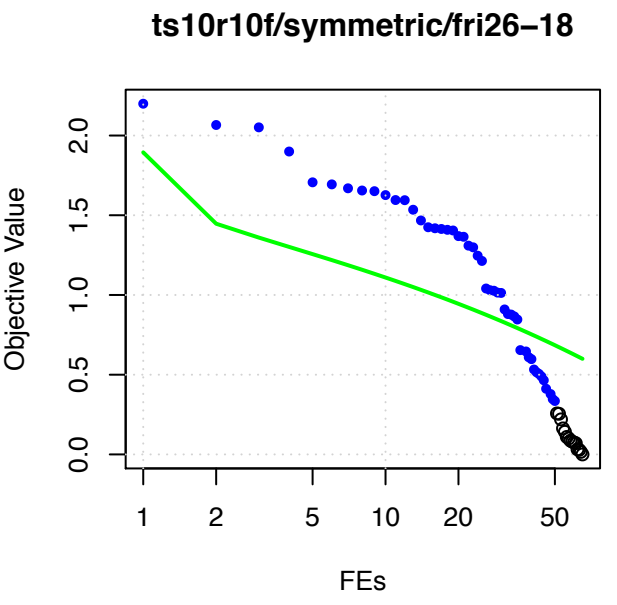
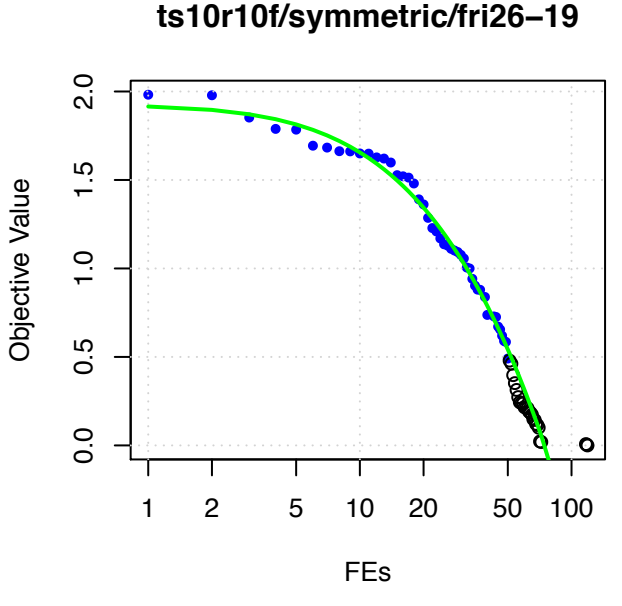
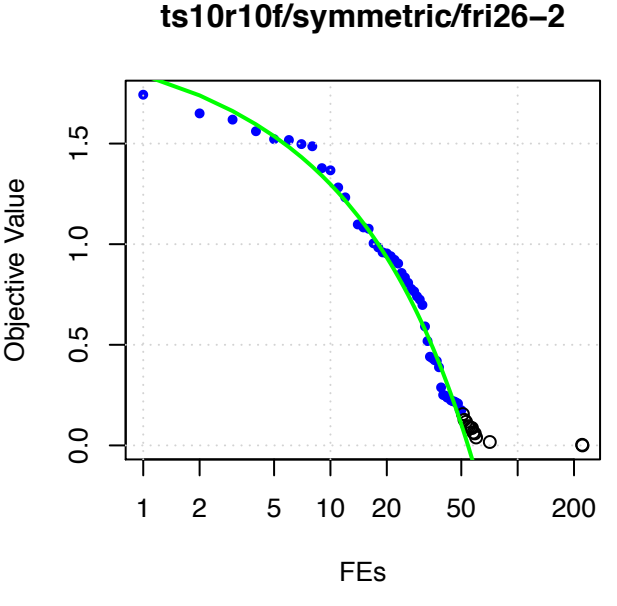
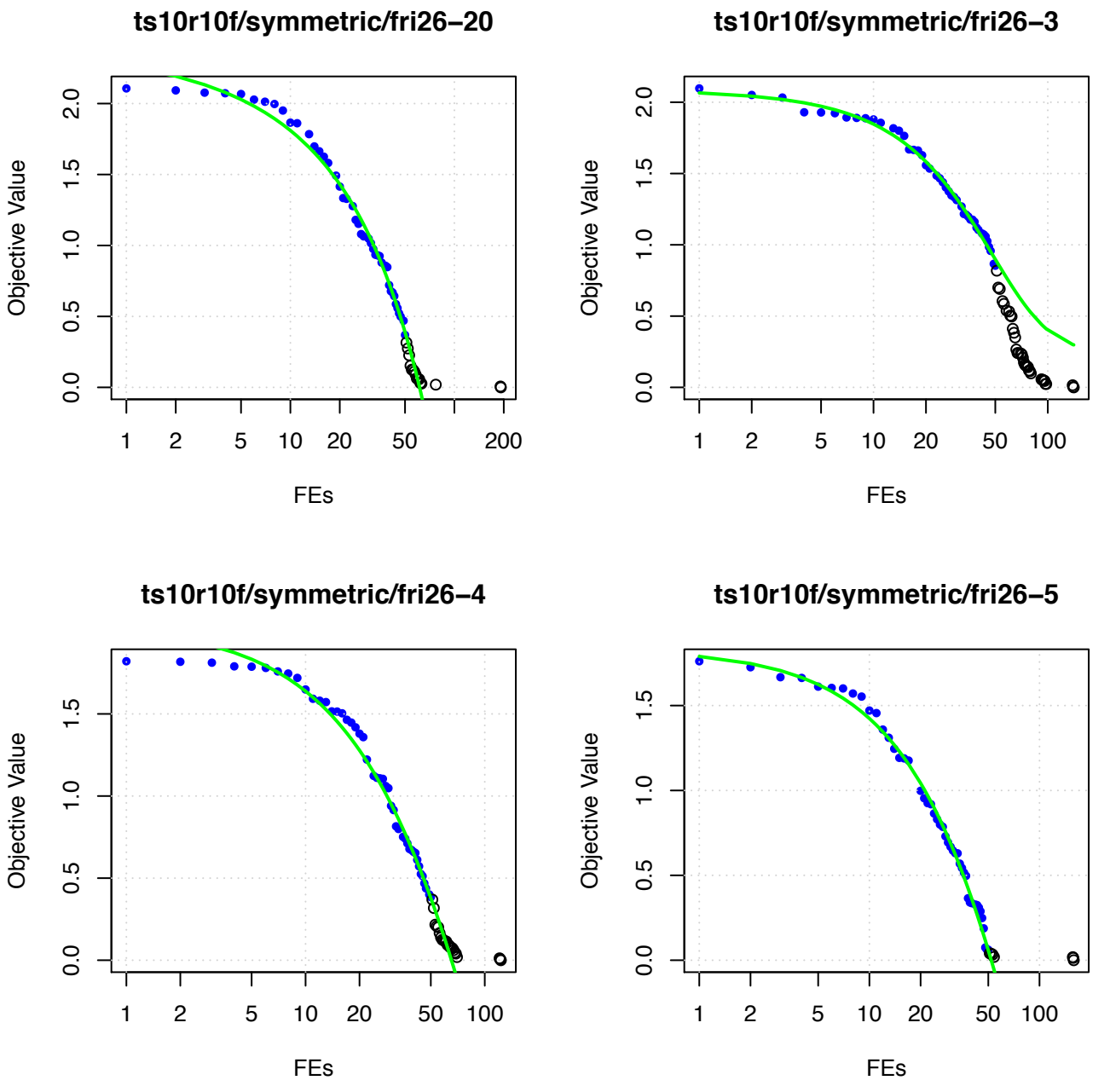
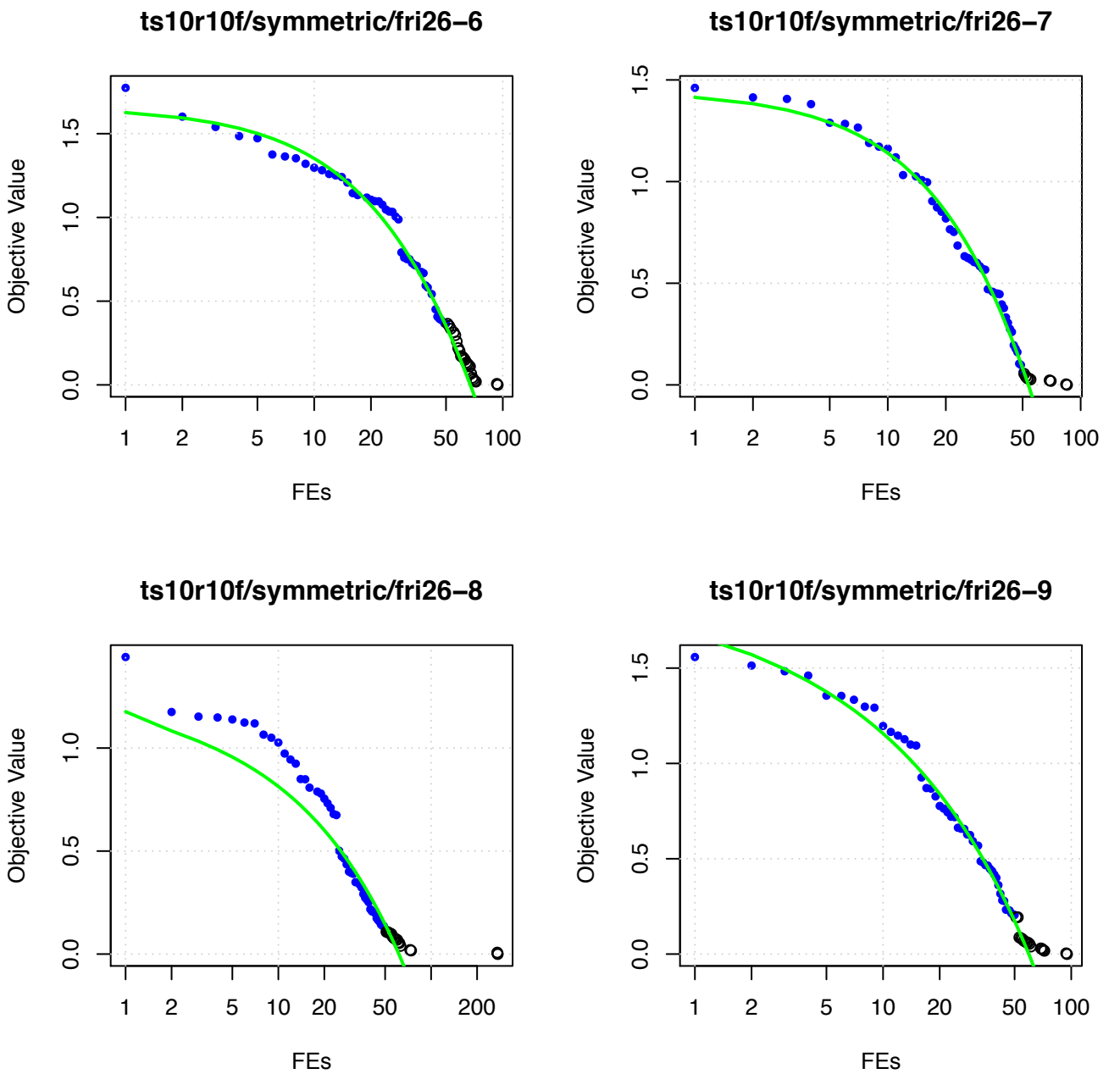
0.5
1.0
1.5
2.0
1
2
5
10
20
50
200
FEs

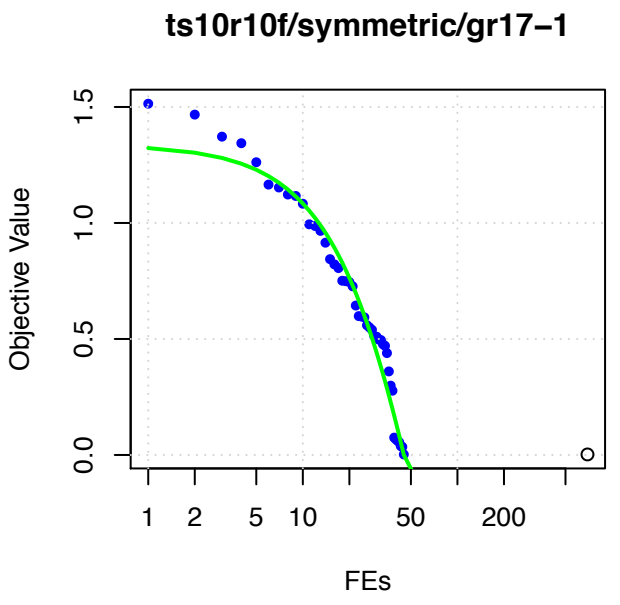

ts10r10f/symmetric/fri26−18
Objective Value
0.0
0.5
1.0
1.5
2.0
1
2
5
10
20
50
FEs

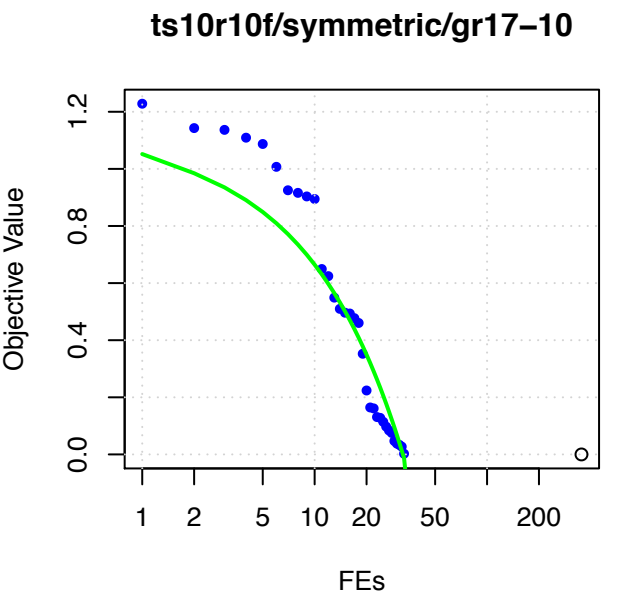

ts10r10f/symmetric/fri26−19
Objective Value
0.0
0.5
1.0
1.5
2.0
1
2
5
10
20
50
100
FEs

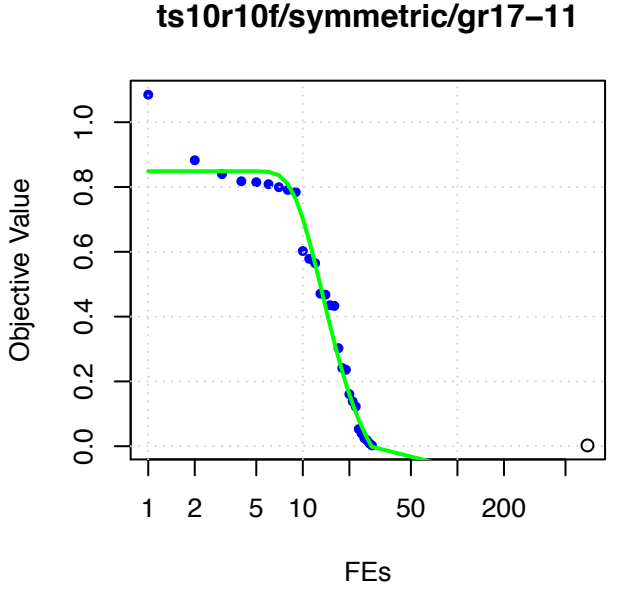

ts10r10f/symmetric/fri26−2
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
200
FEs

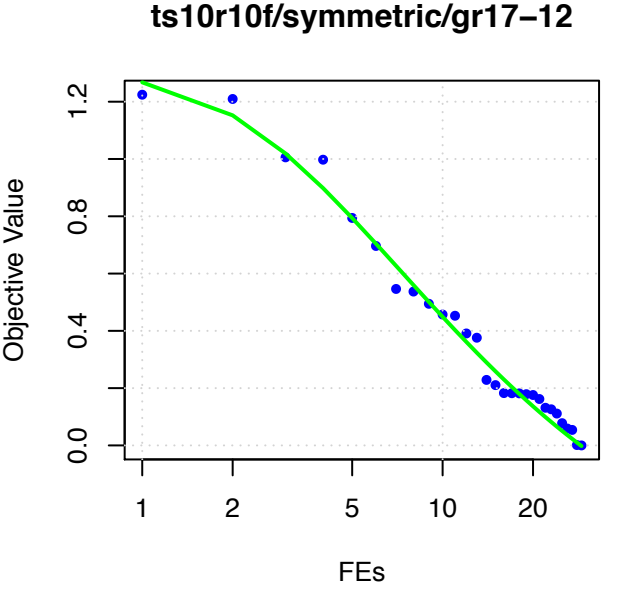

ts10r10f/symmetric/fri26−20
ts10r10f/symmetric/fri26−3
ts10r10f/symmetric/fri26−4
ts10r10f/symmetric/fri26−5
Objective Value
FEs
0.0
0.5
1.0
1.5
2.0
1
2
5
10
20
50
100
200

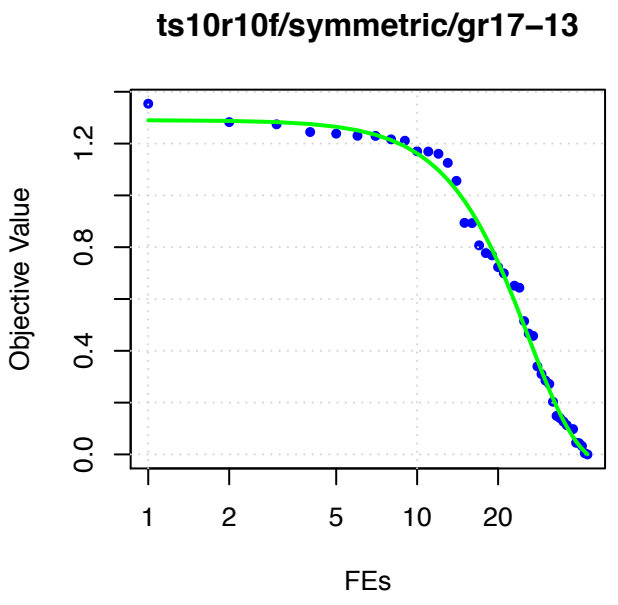

ts10r10f/symmetric/fri26−6
ts10r10f/symmetric/fri26−7
ts10r10f/symmetric/fri26−8
ts10r10f/symmetric/fri26−9
Objective Value
FEs
0.0
0.5
1.0
1.5
1
2
5
10
20
50
100
200

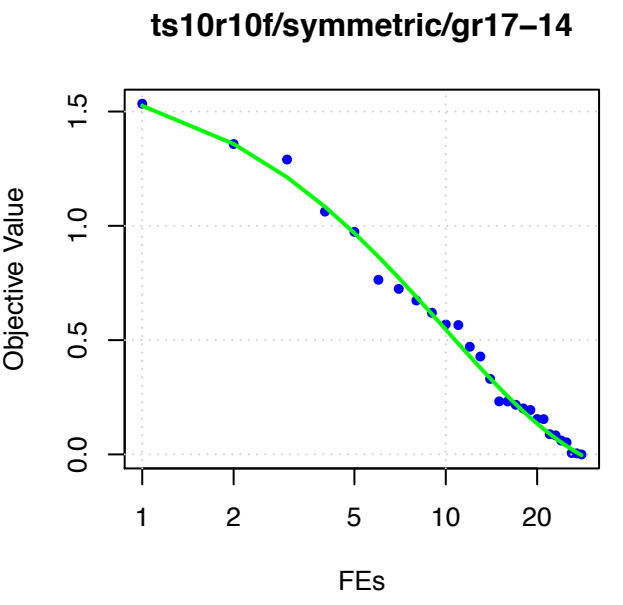

ts10r10f/symmetric/gr17−1
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
50
200
FEs

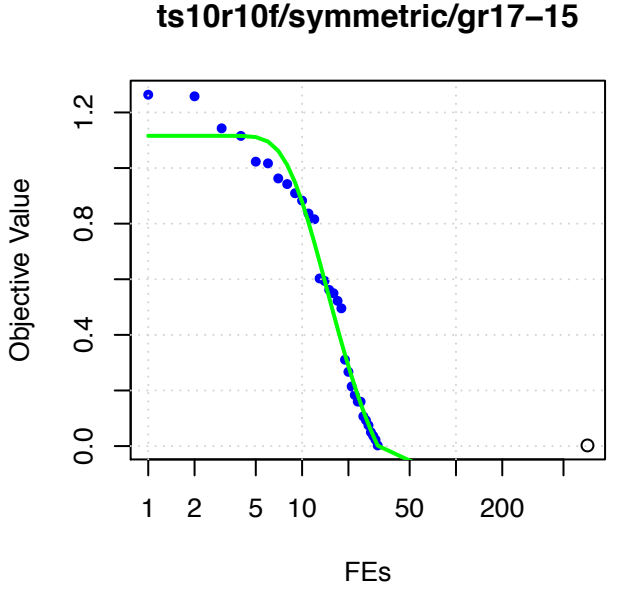

ts10r10f/symmetric/gr17−10
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
20
50
200
FEs

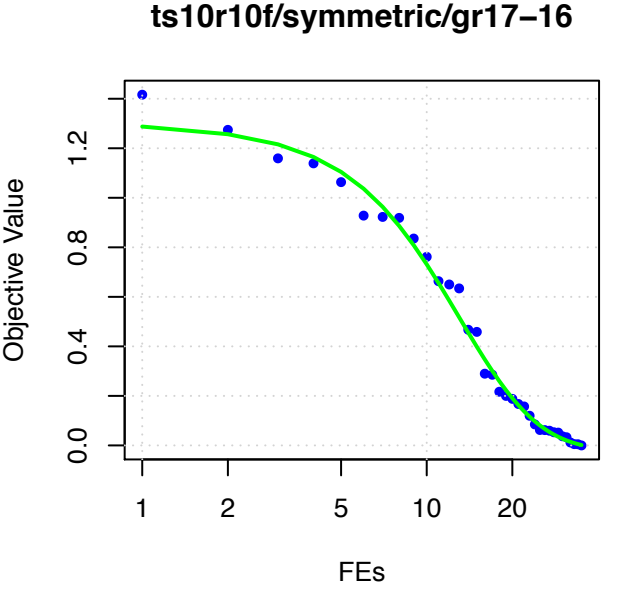

ts10r10f/symmetric/gr17−11
Objective Value
0.0
0.2
0.4
0.6
0.8
1.0
1
2
5
10
50
200
FEs

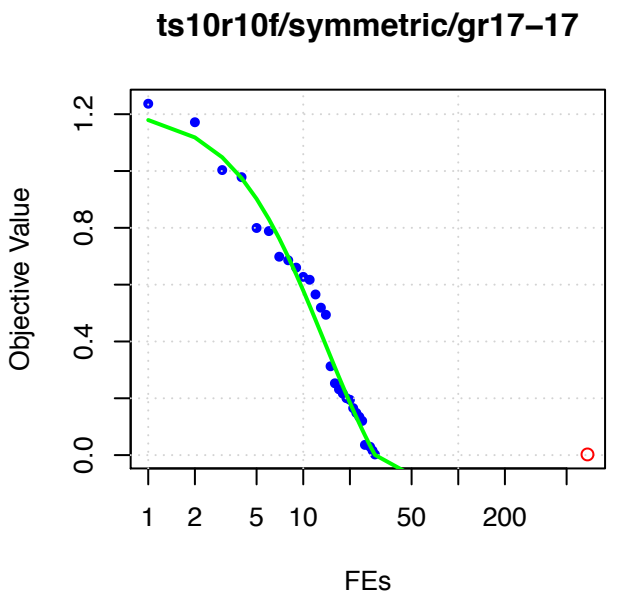

ts10r10f/symmetric/gr17−12
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
20
FEs

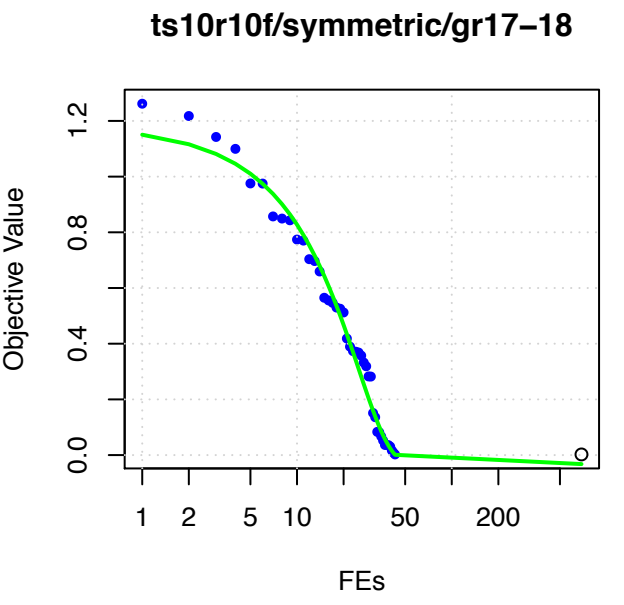

ts10r10f/symmetric/gr17−13
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
20
FEs

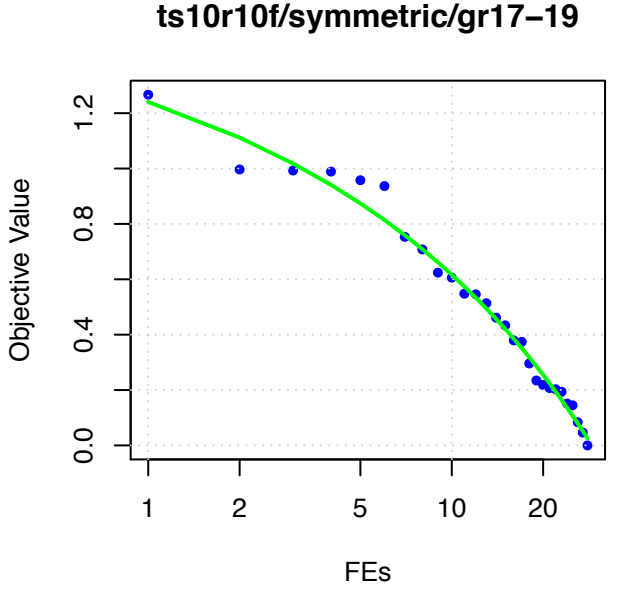

ts10r10f/symmetric/gr17−14
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
FEs


ts10r10f/symmetric/gr17−15
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
50
200
FEs


ts10r10f/symmetric/gr17−16
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
20
FEs


ts10r10f/symmetric/gr17−17
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
50
200
FEs


ts10r10f/symmetric/gr17−18
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
50
200
FEs


ts10r10f/symmetric/gr17−19
Objective Value
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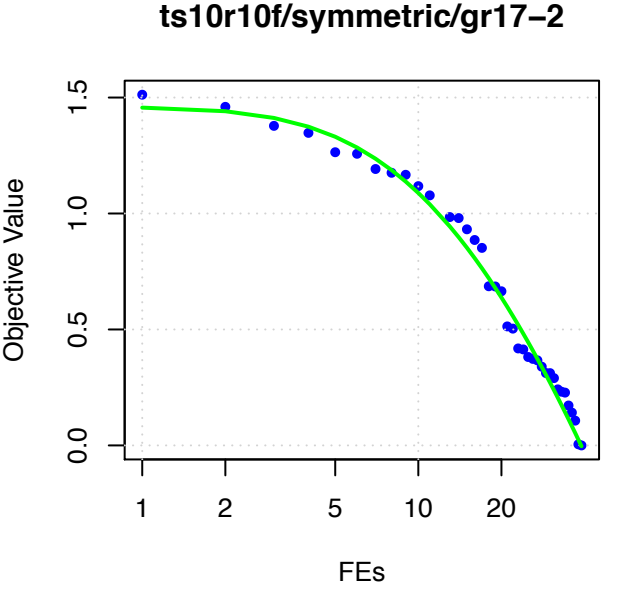
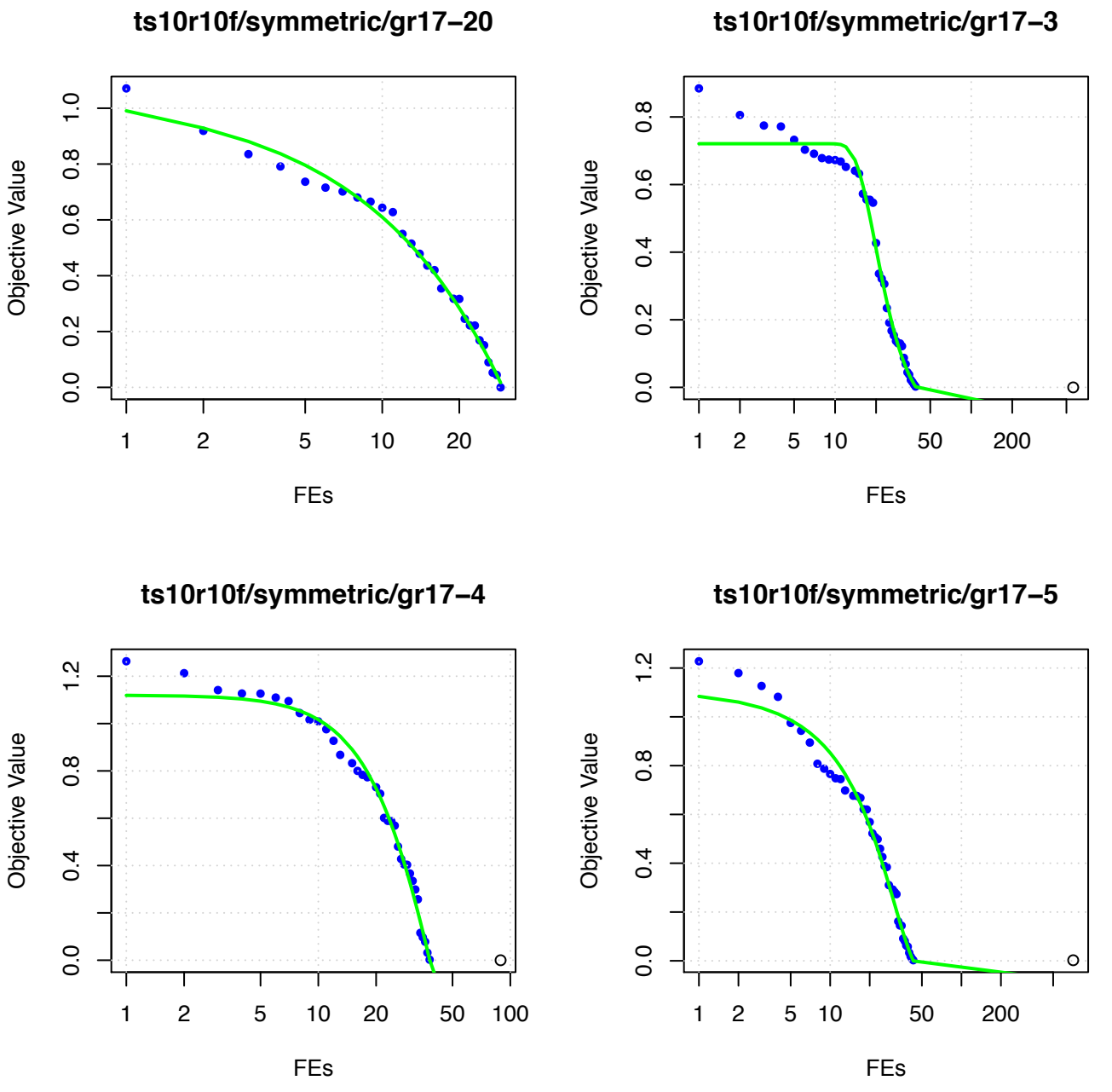
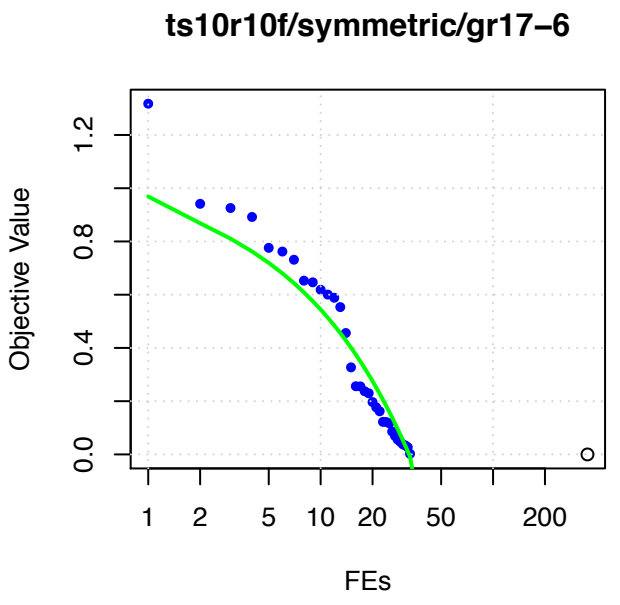
0.4
0.8
1.2
1
2
5
10
20
FEs


ts10r10f/symmetric/gr17−2
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
FEs


ts10r10f/symmetric/gr17−20
Objective Value
0.0
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
FEs
ts10r10f/symmetric/gr17−3
Objective Value
0.0
0.2
0.4
0.6
0.8
1
2
5
10
50
200
FEs
ts10r10f/symmetric/gr17−4
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
20
50
100
FEs
ts10r10f/symmetric/gr17−5
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
50
200
FEs


ts10r10f/symmetric/gr17−6
Objective Value
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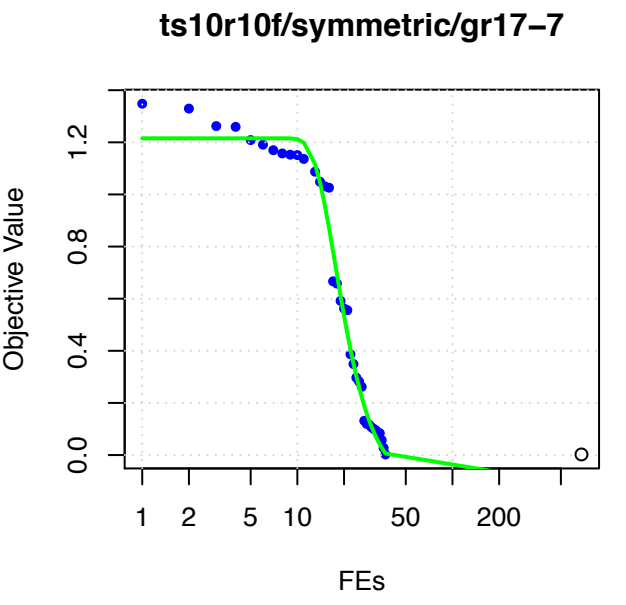
0.4
0.8
1.2
1
2
5
10
20
50
200
FEs


ts10r10f/symmetric/gr17−7
Objective Value
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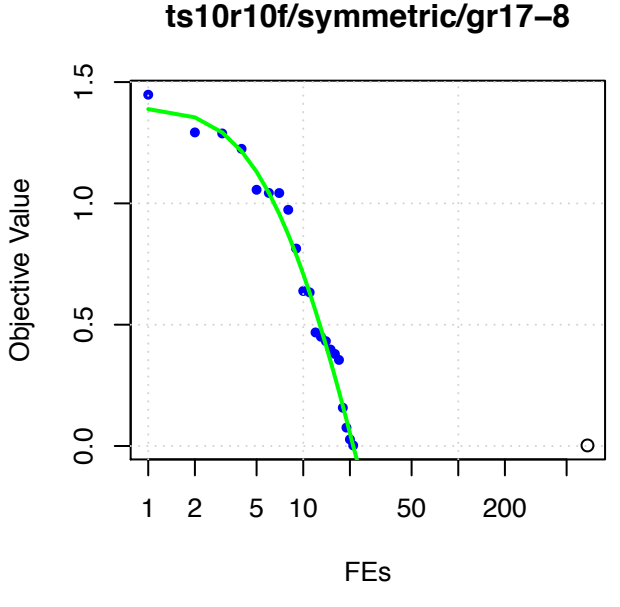
0.4
0.8
1.2
1
2
5
10
50
200
FEs


ts10r10f/symmetric/gr17−8
Objective Value
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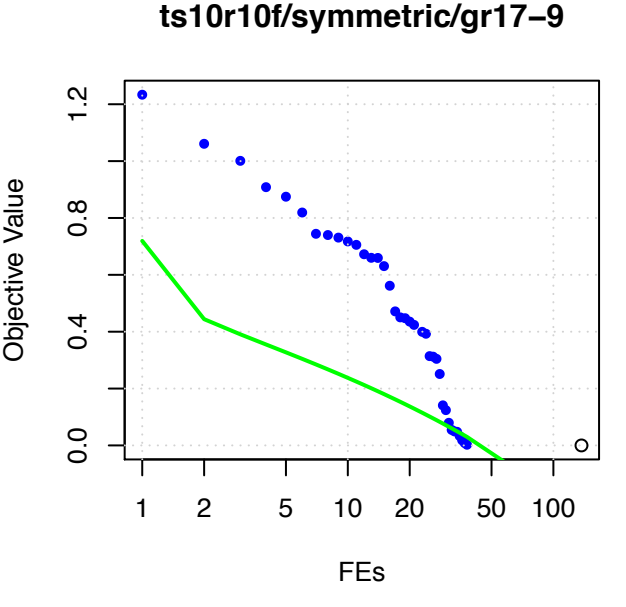
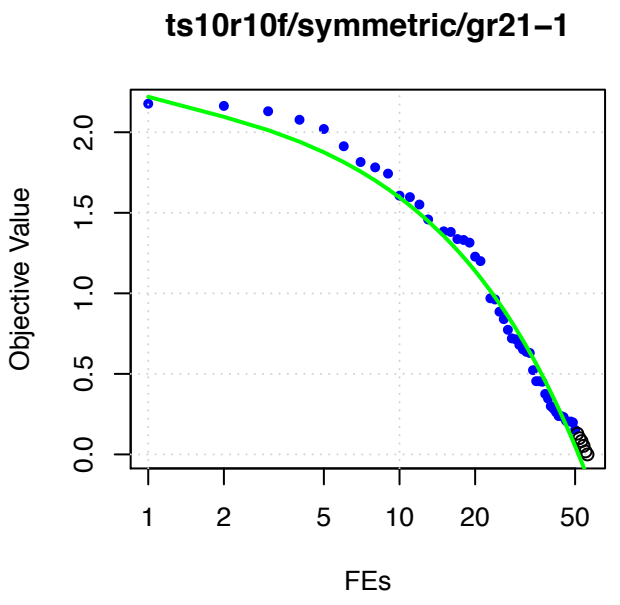
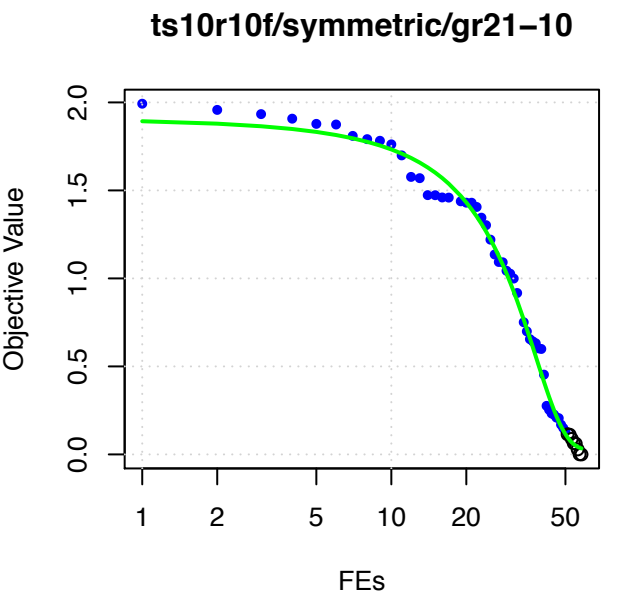
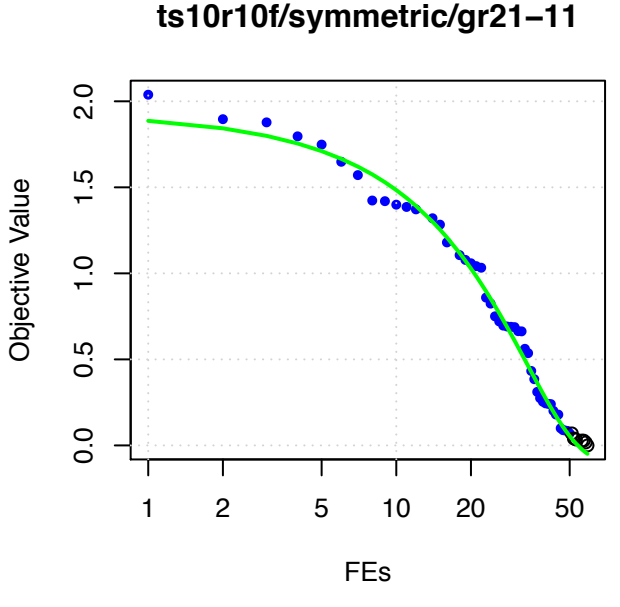
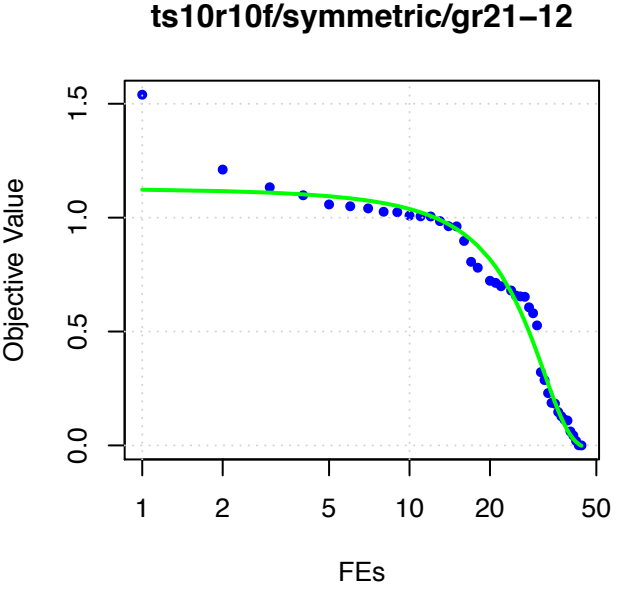
1.0
1.5
1
2
5
10
50
200
FEs

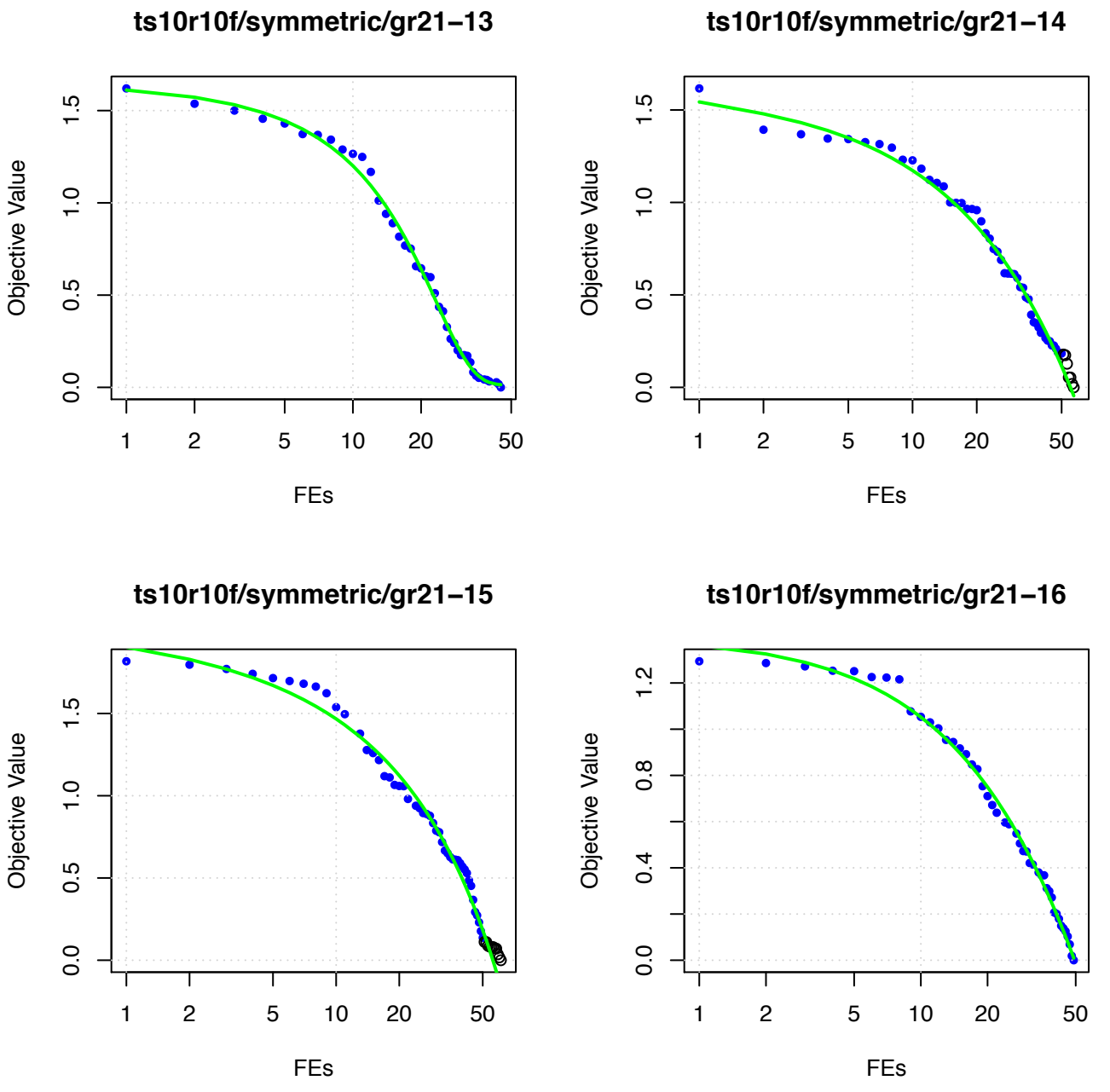

ts10r10f/symmetric/gr17−9
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
20
50
100
FEs


ts10r10f/symmetric/gr21−1
Objective Value
0.0
0.5
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts10r10f/symmetric/gr21−10
Objective Value
0.0
0.5
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts10r10f/symmetric/gr21−11
Objective Value
0.0
0.5
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts10r10f/symmetric/gr21−12
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts10r10f/symmetric/gr21−13
ts10r10f/symmetric/gr21−14
ts10r10f/symmetric/gr21−15
ts10r10f/symmetric/gr21−16
Objective Value
FEs
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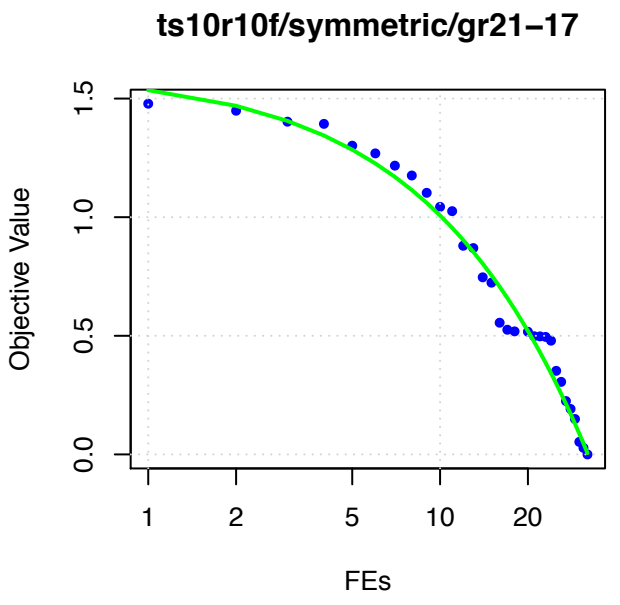
0.4
0.5
0.8
1.0
1.2
1.5
1
2
5
10
20
50


ts10r10f/symmetric/gr21−17
Objective Value
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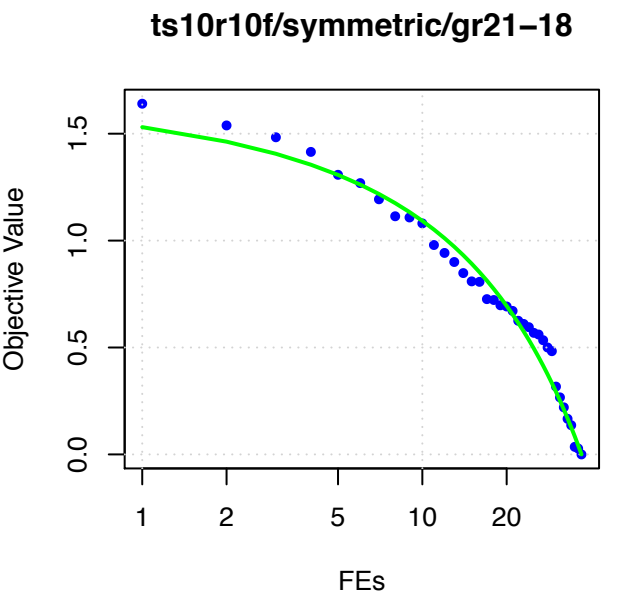
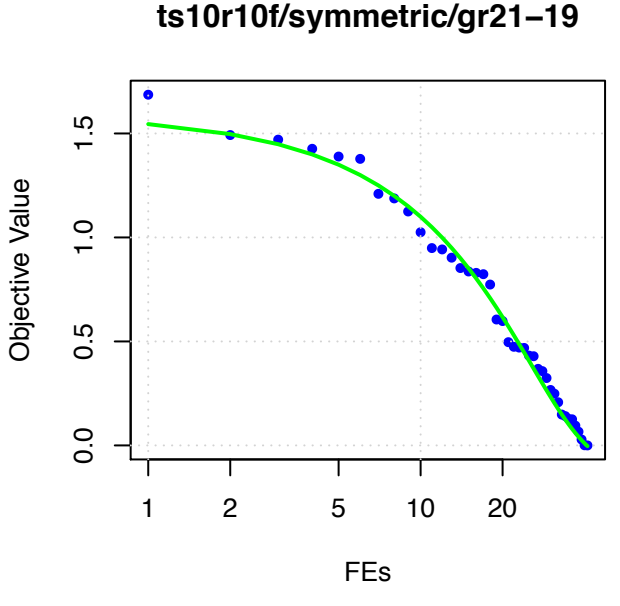
0.5
1.0
1.5
1
2
5
10
20
FEs


ts10r10f/symmetric/gr21−18
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
FEs


ts10r10f/symmetric/gr21−19
Objective Value
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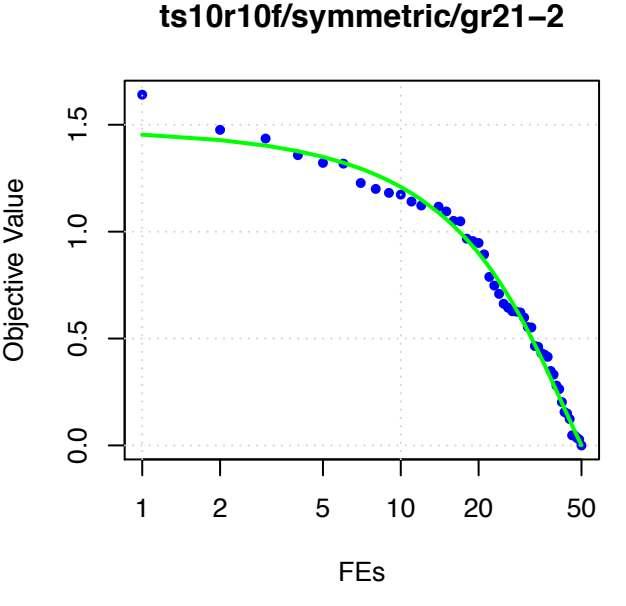
0.5
1.0
1.5
1
2
5
10
20
FEs


ts10r10f/symmetric/gr21−2
Objective Value
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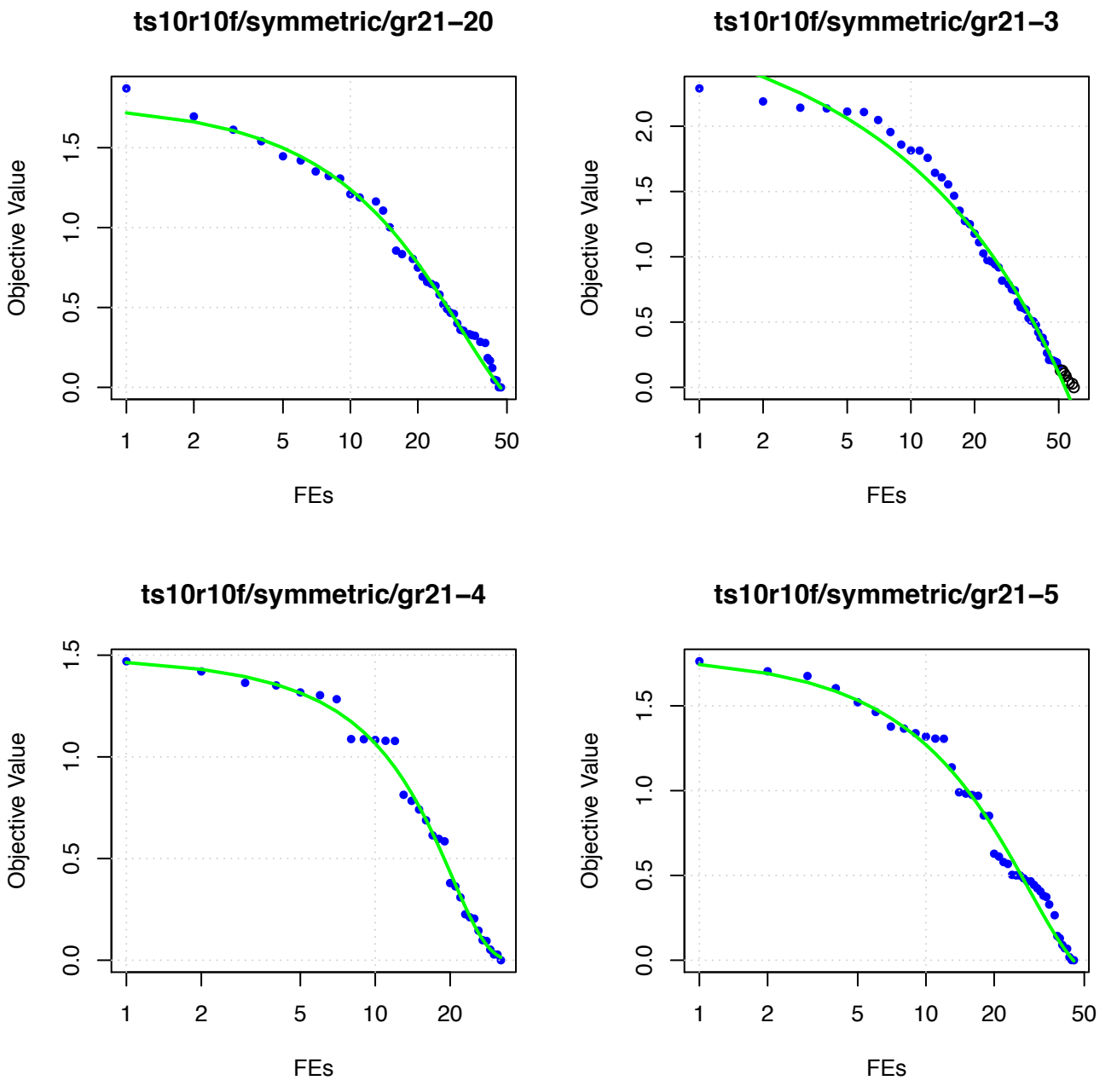
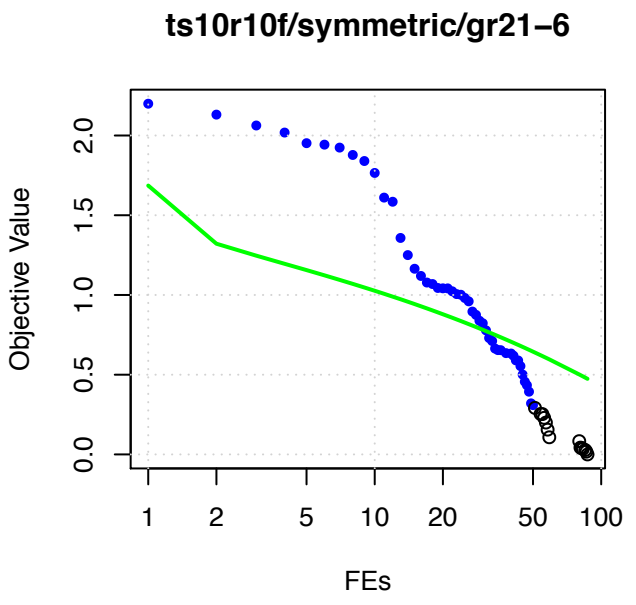
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts10r10f/symmetric/gr21−20
ts10r10f/symmetric/gr21−3
ts10r10f/symmetric/gr21−4
ts10r10f/symmetric/gr21−5
Objective Value
FEs
0.0
0.5
1.0
1.5
2.0
1
2
5
10
20
50


ts10r10f/symmetric/gr21−6
Objective Value
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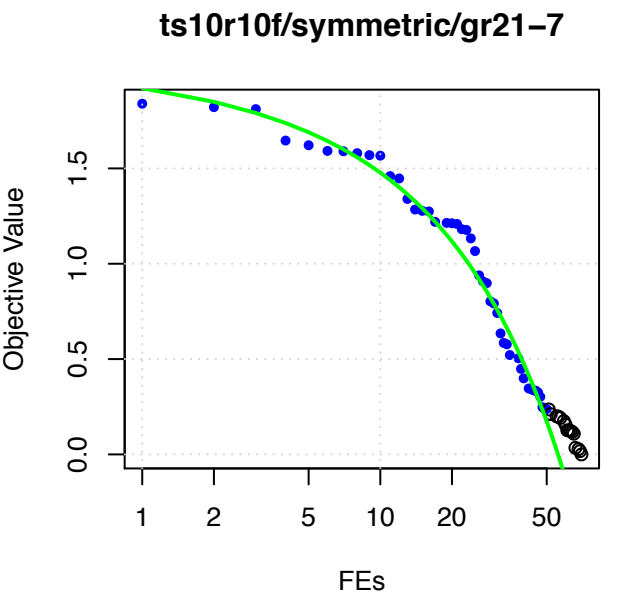
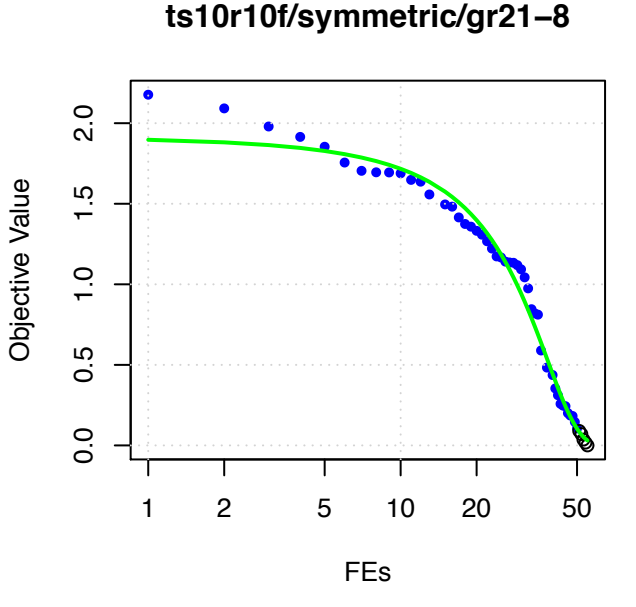
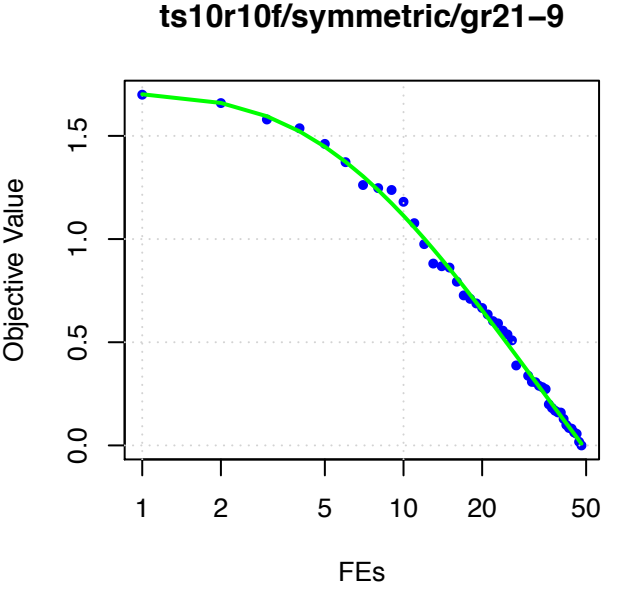
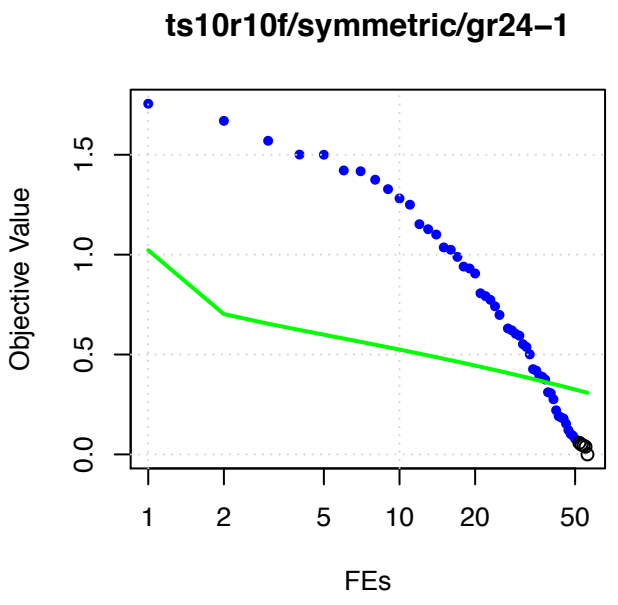
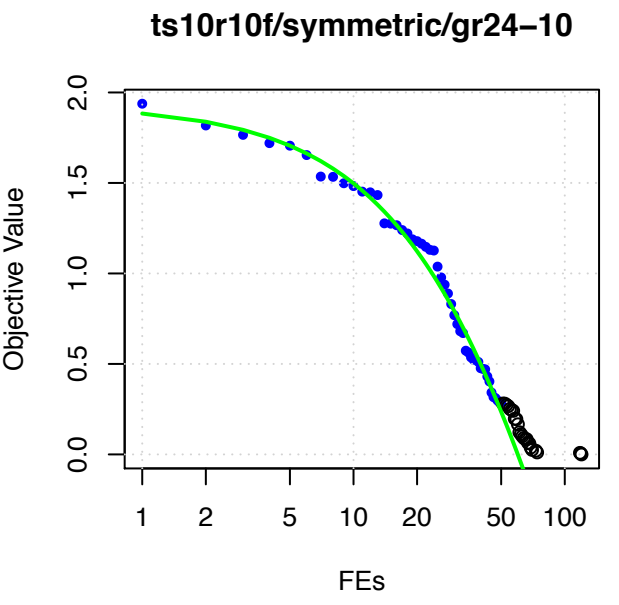
0.5
1.0
1.5
2.0
1
2
5
10
20
50
100
FEs


ts10r10f/symmetric/gr21−7
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts10r10f/symmetric/gr21−8
Objective Value
0.0
0.5
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts10r10f/symmetric/gr21−9
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts10r10f/symmetric/gr24−1
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts10r10f/symmetric/gr24−10
Objective Value
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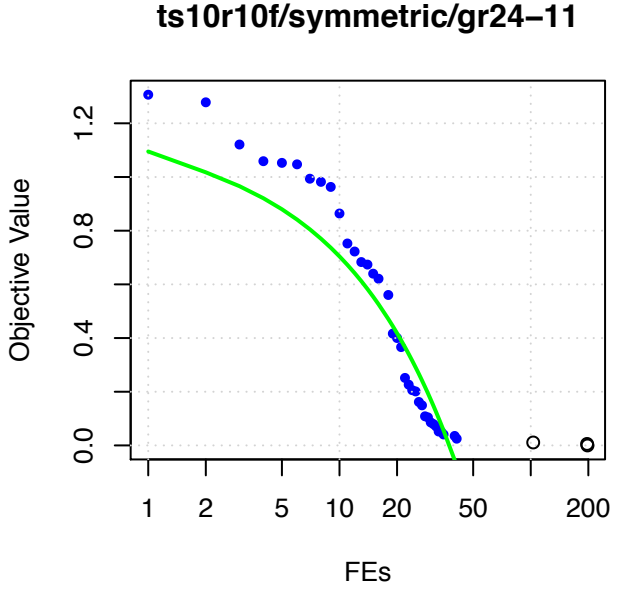
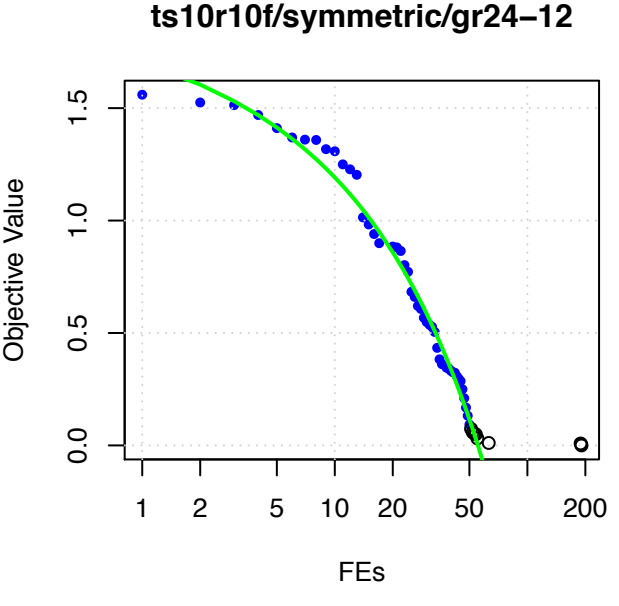
0.5
1.0
1.5
2.0
1
2
5
10
20
50
100
FEs


ts10r10f/symmetric/gr24−11
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
20
50
200
FEs


ts10r10f/symmetric/gr24−12
Objective Value
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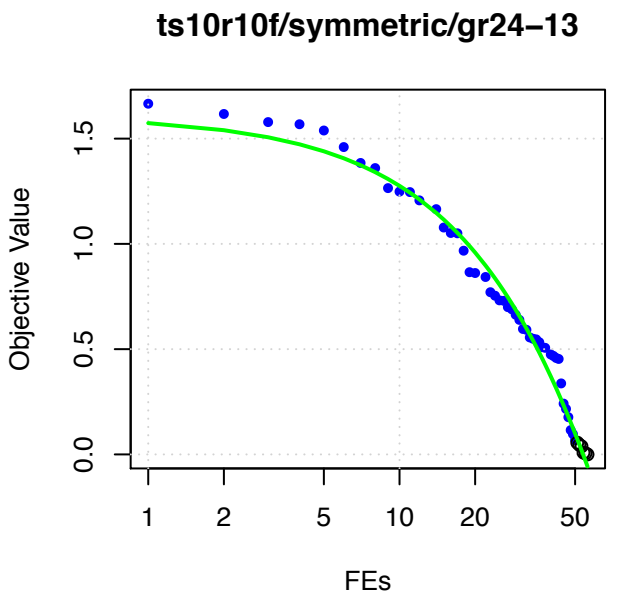
0.5
1.0
1.5
1
2
5
10
20
50
200
FEs


ts10r10f/symmetric/gr24−13
Objective Value
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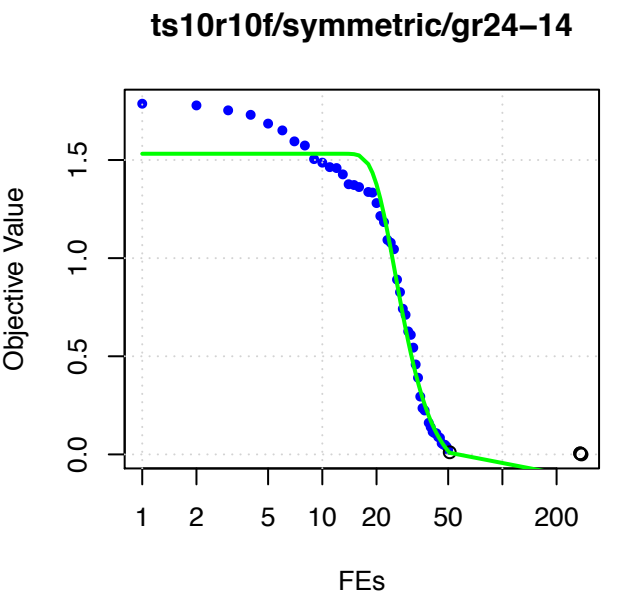
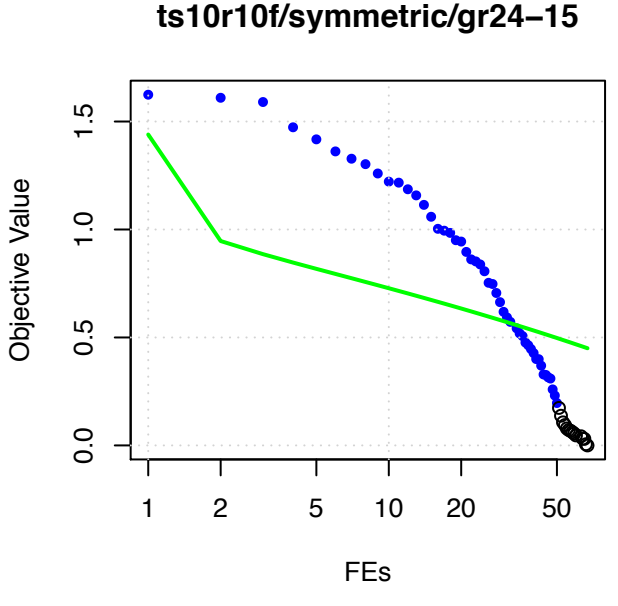
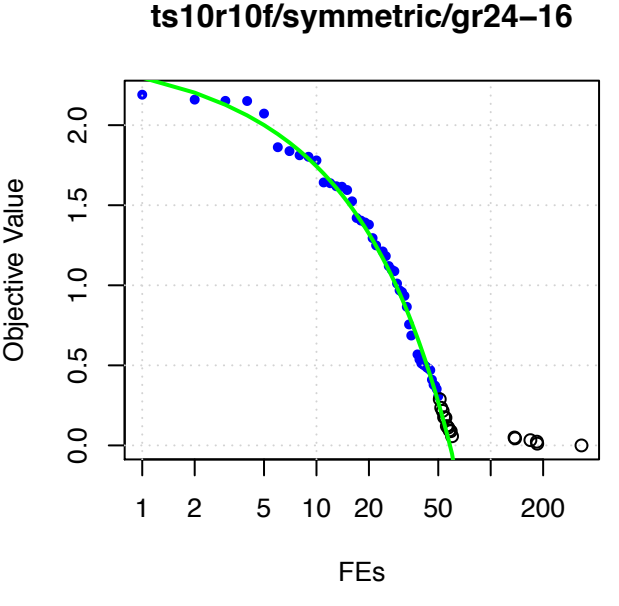
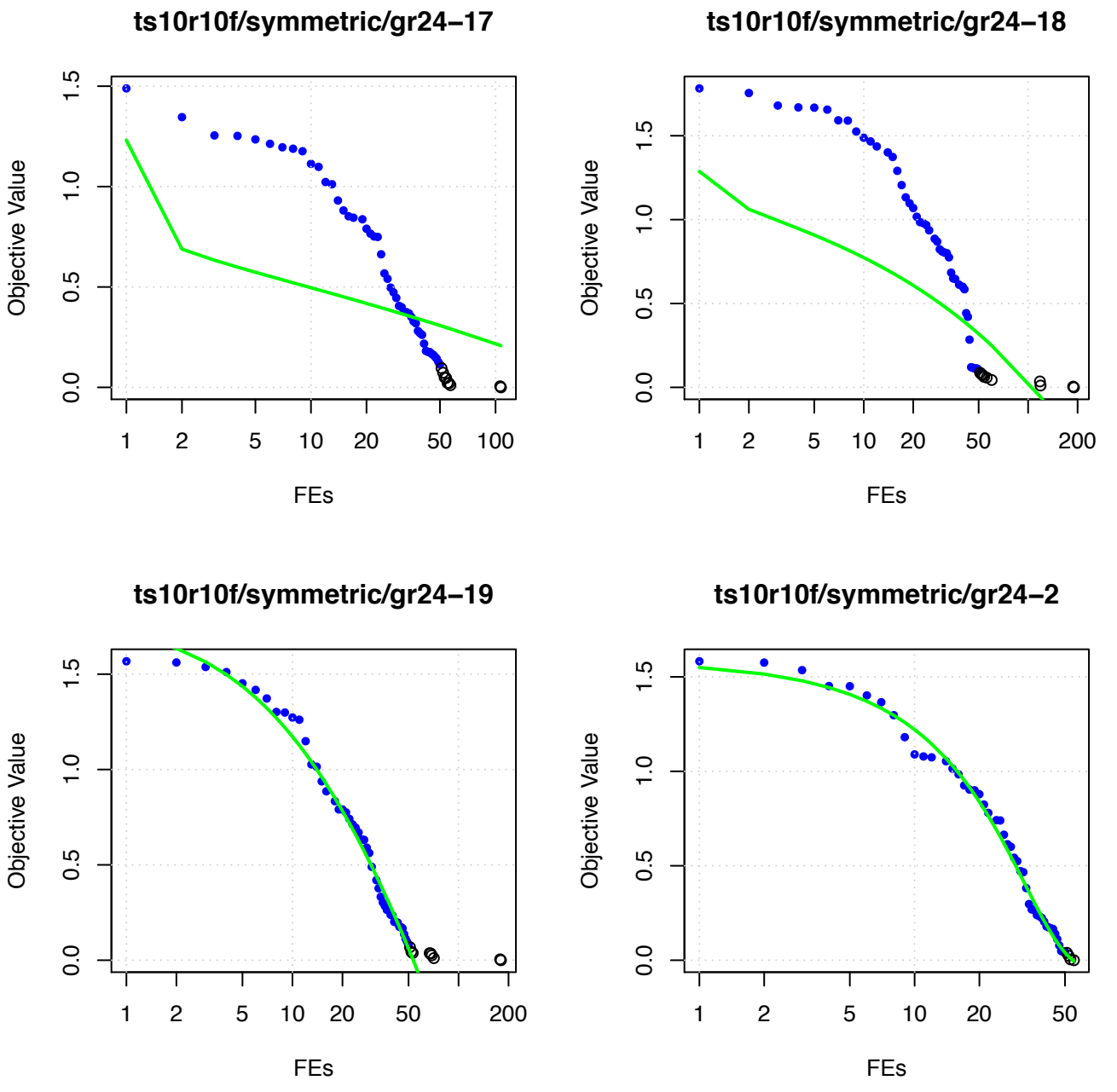
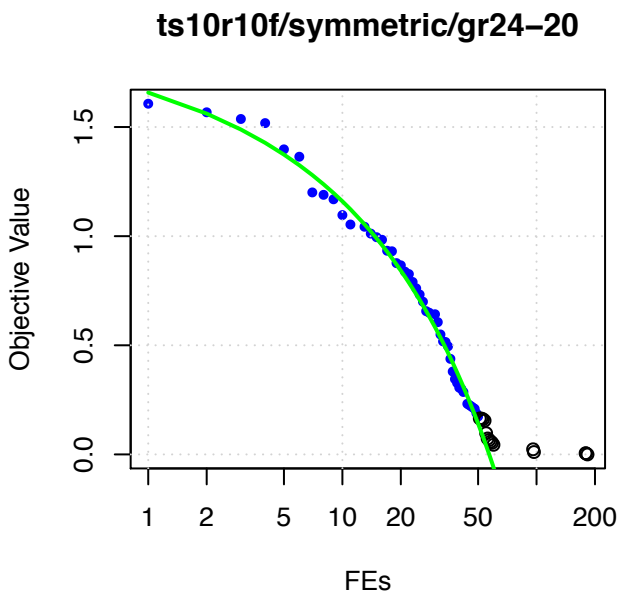
0.5
1.0
1.5
1
2
5
10
20
50
FEs

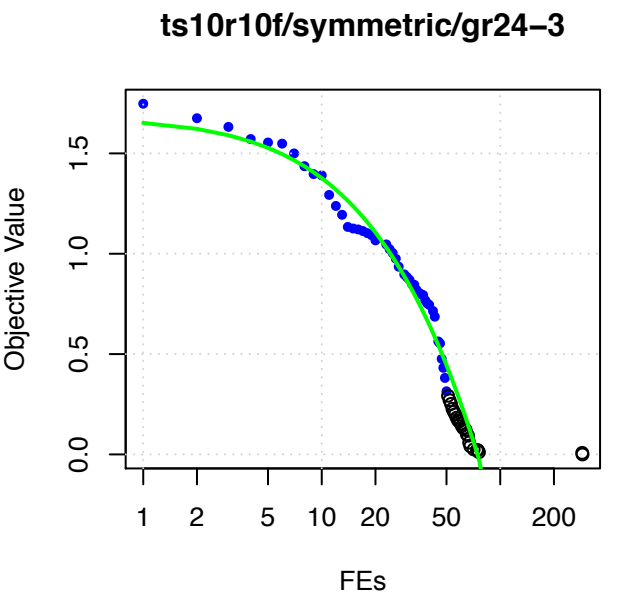

ts10r10f/symmetric/gr24−14
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
200
FEs


ts10r10f/symmetric/gr24−15
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts10r10f/symmetric/gr24−16
Objective Value
0.0
0.5
1.0
1.5
2.0
1
2
5
10
20
50
200
FEs


ts10r10f/symmetric/gr24−17
ts10r10f/symmetric/gr24−18
ts10r10f/symmetric/gr24−19
ts10r10f/symmetric/gr24−2
Objective Value
FEs
0.0
0.5
1.0
1.5
1
2
5
10
20
50
100
200


ts10r10f/symmetric/gr24−20
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
200
FEs


ts10r10f/symmetric/gr24−3
Objective Value
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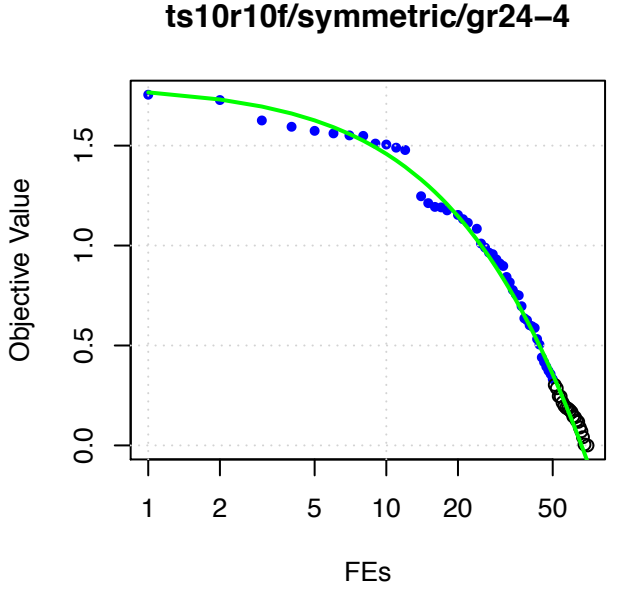
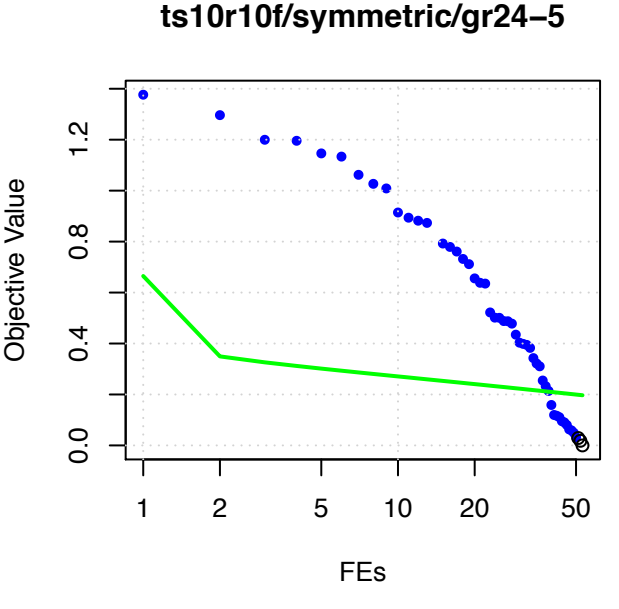
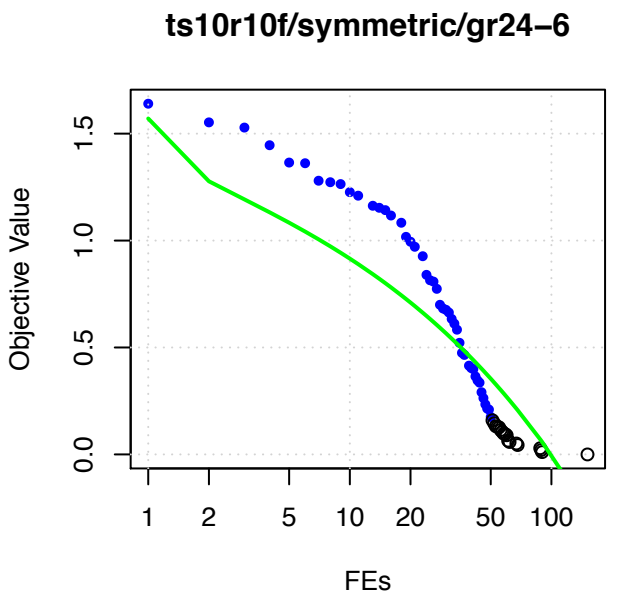
0.5
1.0
1.5
1
2
5
10
20
50
200
FEs


ts10r10f/symmetric/gr24−4
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts10r10f/symmetric/gr24−5
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts10r10f/symmetric/gr24−6
Objective Value
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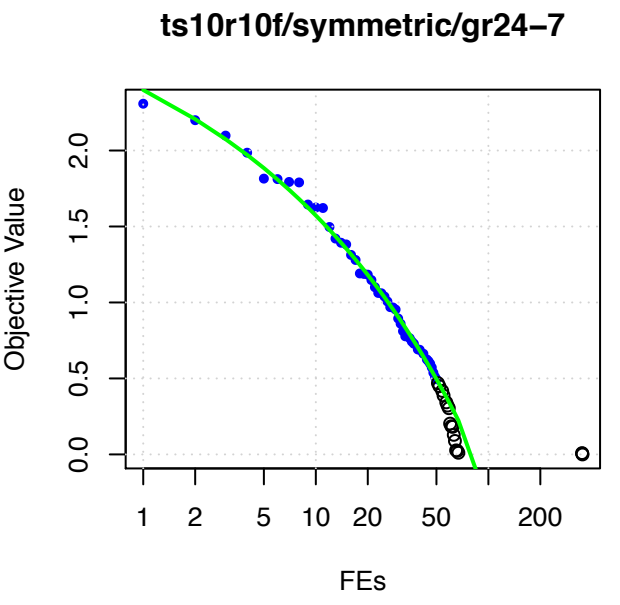
0.5
1.0
1.5
1
2
5
10
20
50
100
FEs


ts10r10f/symmetric/gr24−7
Objective Value
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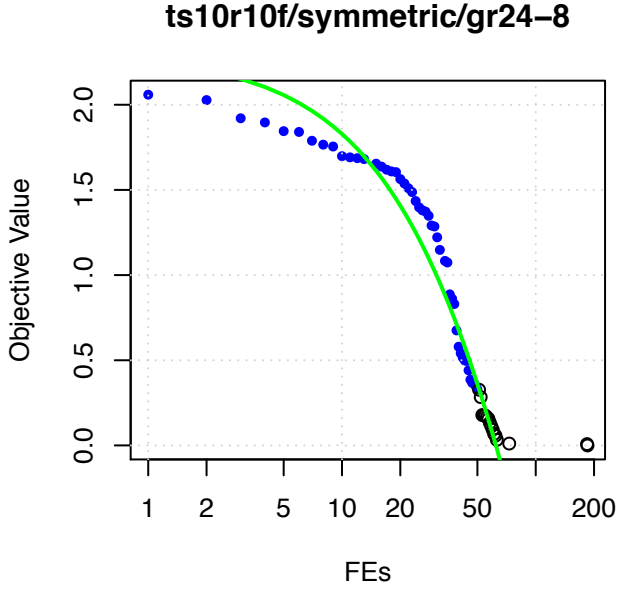
0.5
1.0
1.5
2.0
1
2
5
10
20
50
200
FEs


ts10r10f/symmetric/gr24−8
Objective Value
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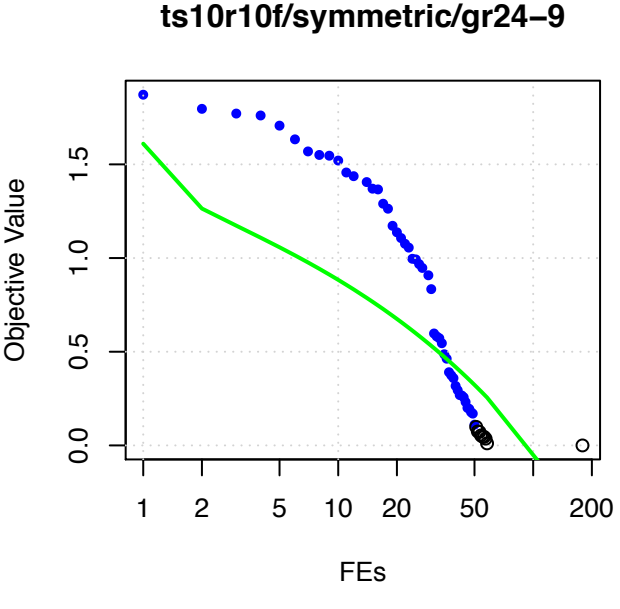
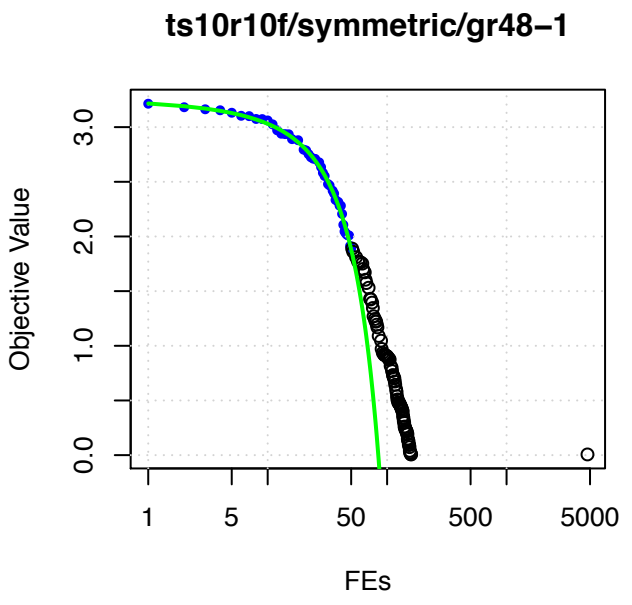
0.5
1.0
1.5
2.0
1
2
5
10
20
50
200
FEs


ts10r10f/symmetric/gr24−9
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
200
FEs


ts10r10f/symmetric/gr48−1
Objective Value
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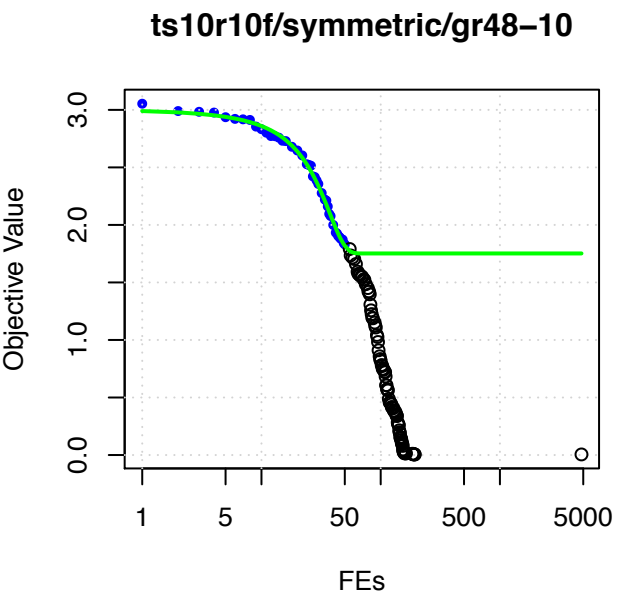
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts10r10f/symmetric/gr48−10
Objective Value
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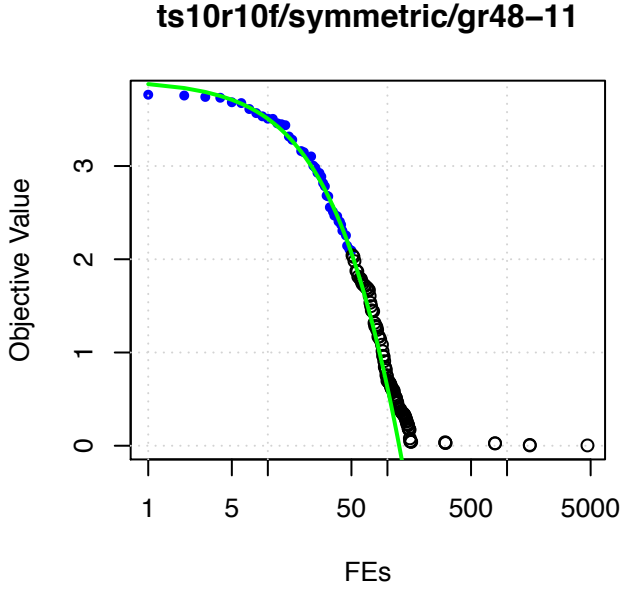
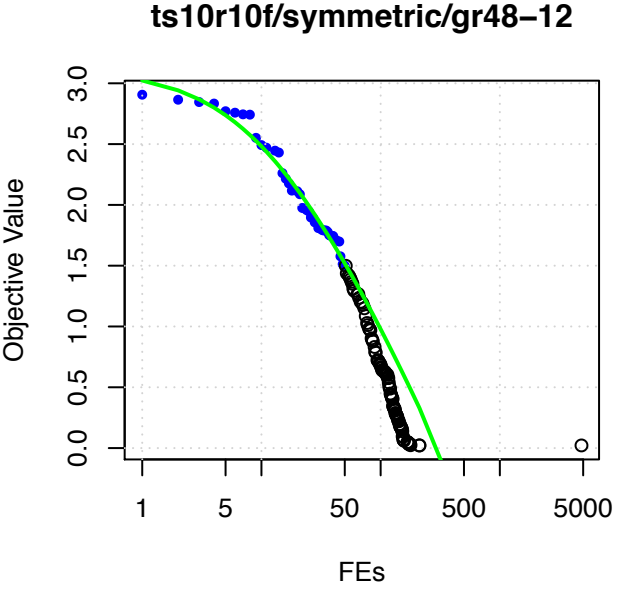
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts10r10f/symmetric/gr48−11
Objective Value
0
1
2
3
1
5
50
500
5000
FEs


ts10r10f/symmetric/gr48−12
Objective Value
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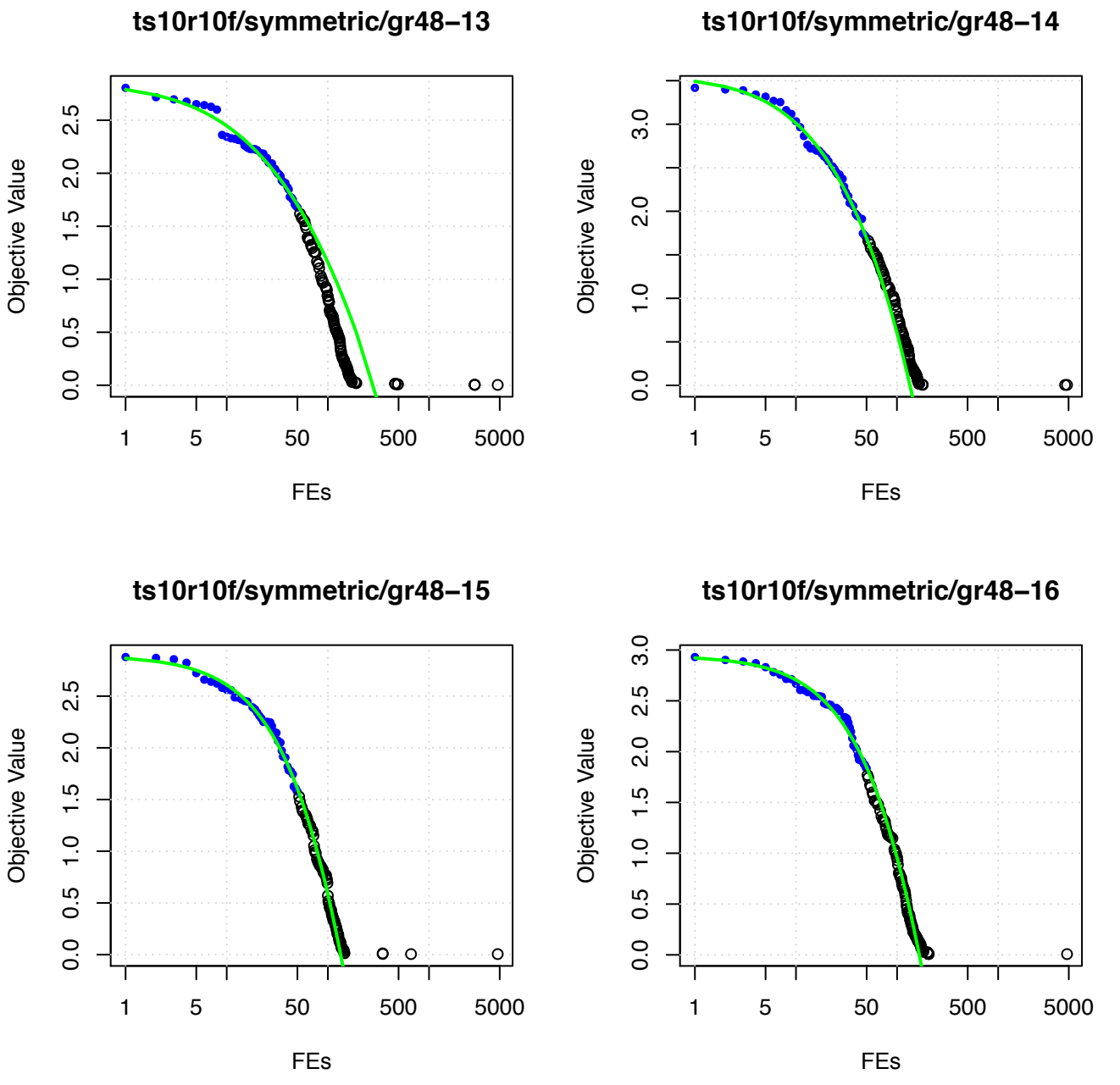
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts10r10f/symmetric/gr48−13
ts10r10f/symmetric/gr48−14
ts10r10f/symmetric/gr48−15
ts10r10f/symmetric/gr48−16
Objective Value
FEs
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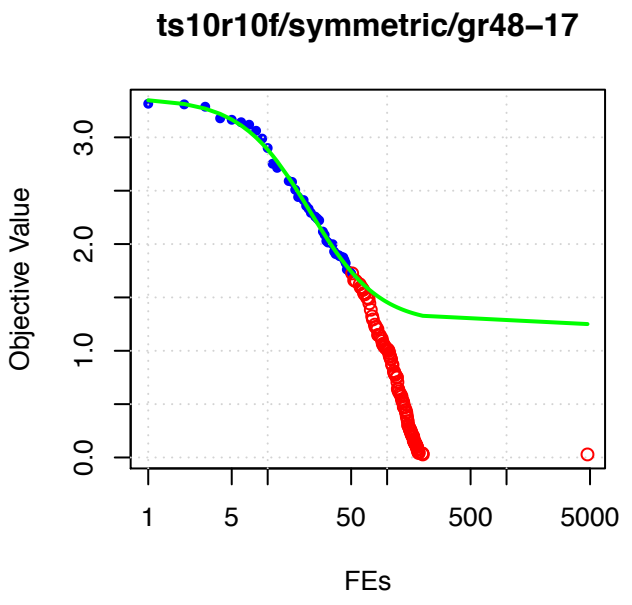
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000


ts10r10f/symmetric/gr48−17
Objective Value
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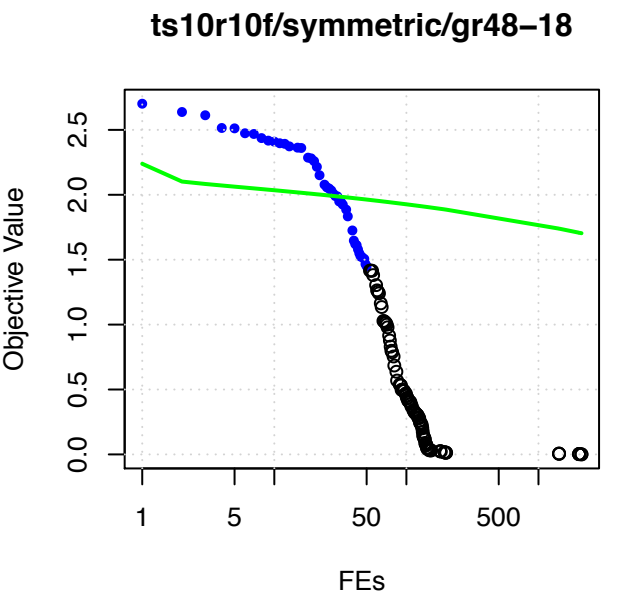
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts10r10f/symmetric/gr48−18
Objective Value
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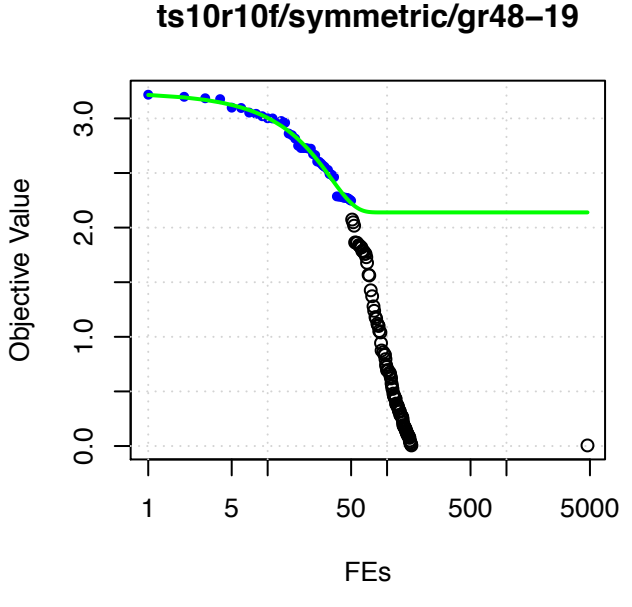
0.5
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts10r10f/symmetric/gr48−19
Objective Value
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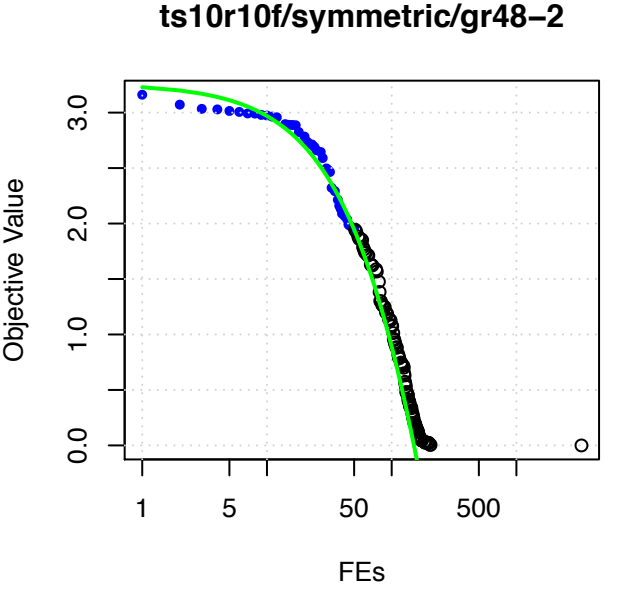
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts10r10f/symmetric/gr48−2
Objective Value
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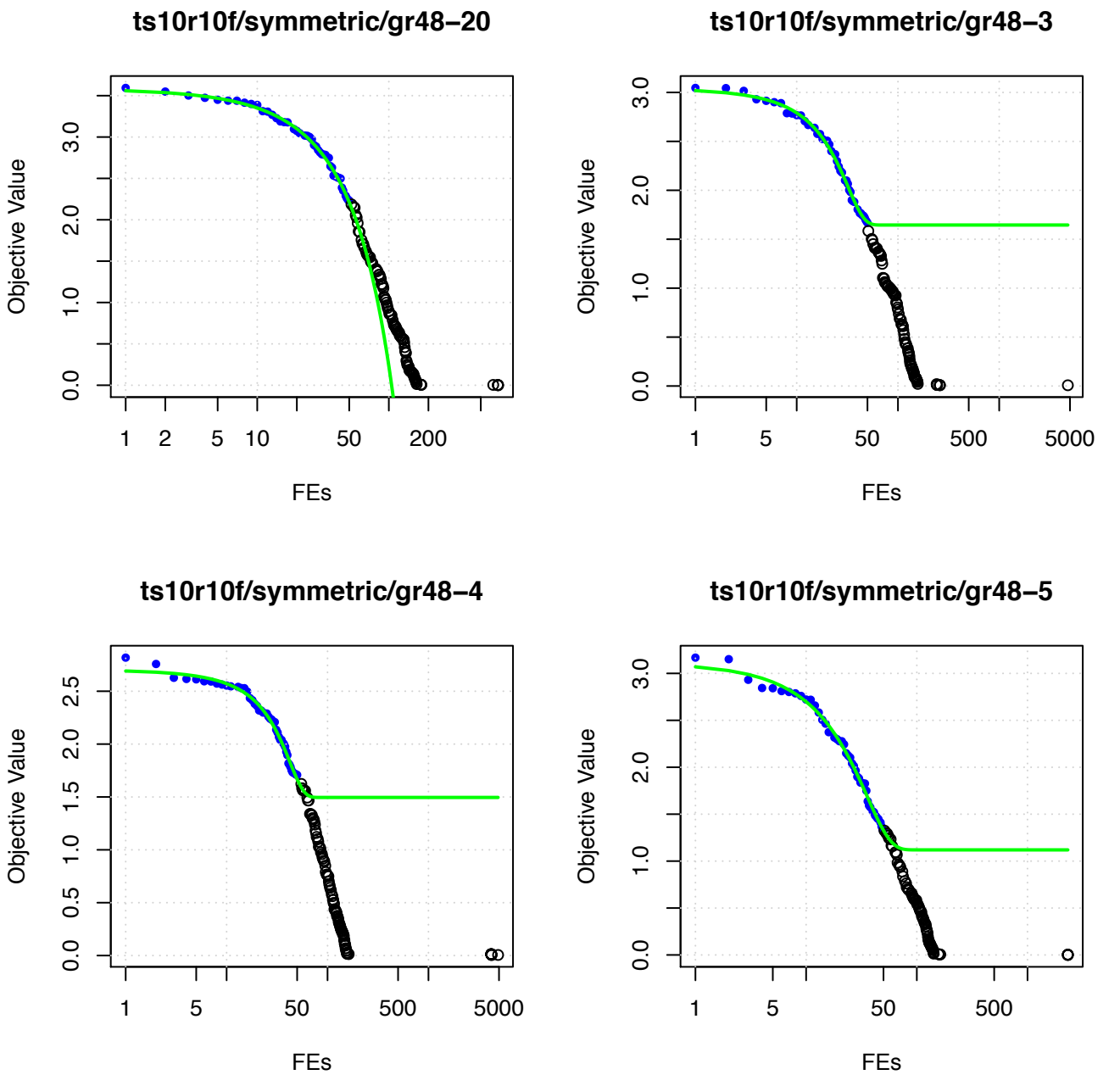
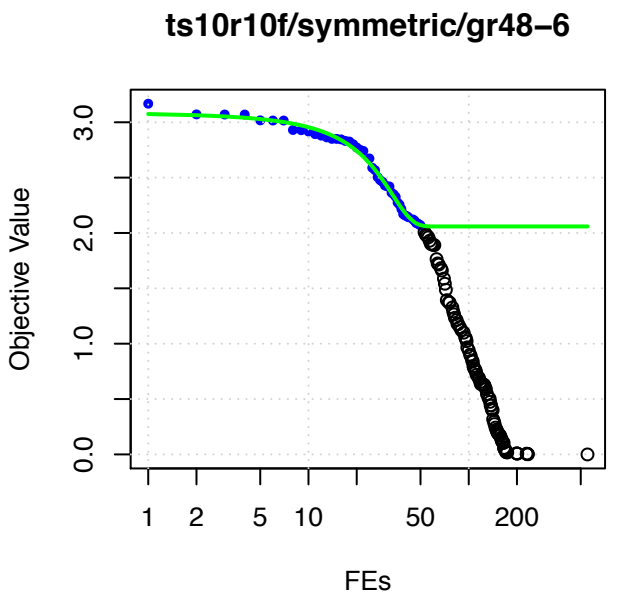
1.0
2.0
3.0
1
5
50
500
FEs


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


ts10r10f/symmetric/gr48−6
Objective Value
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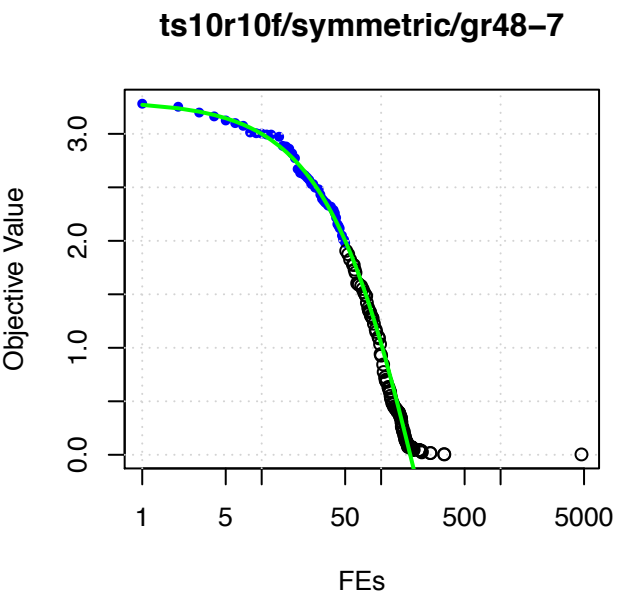
1.0
2.0
3.0
1
2
5
10
50
200
FEs


ts10r10f/symmetric/gr48−7
Objective Value
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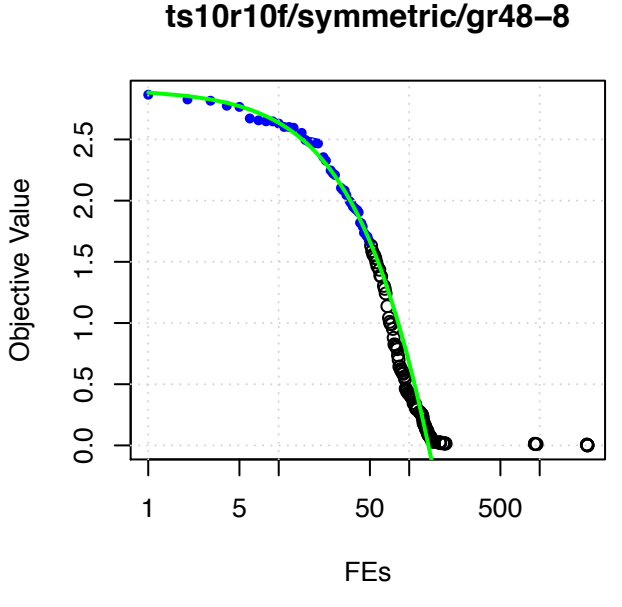
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts10r10f/symmetric/gr48−8
Objective Value
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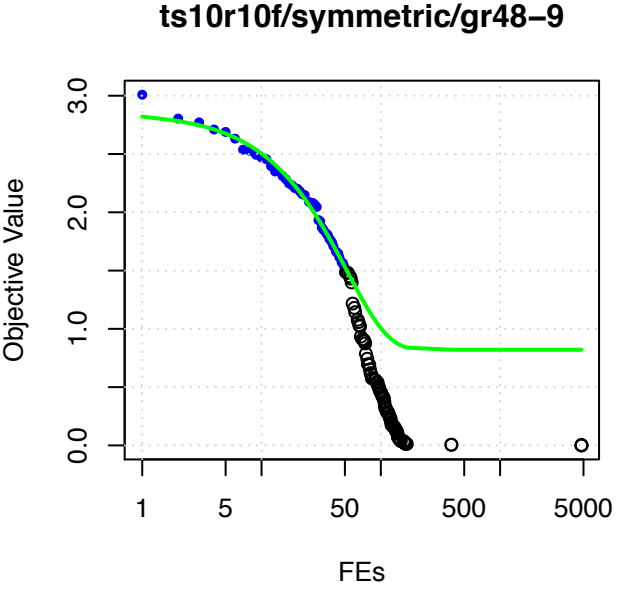
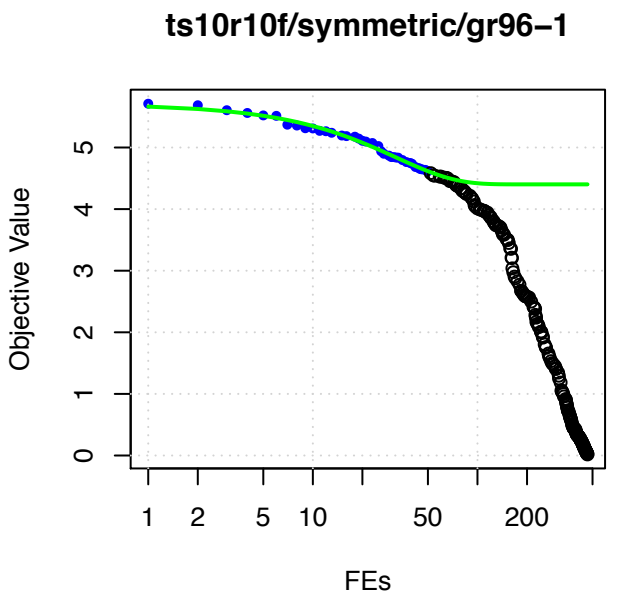
0.5
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts10r10f/symmetric/gr48−9
Objective Value
0.0
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts10r10f/symmetric/gr96−1
Objective Value
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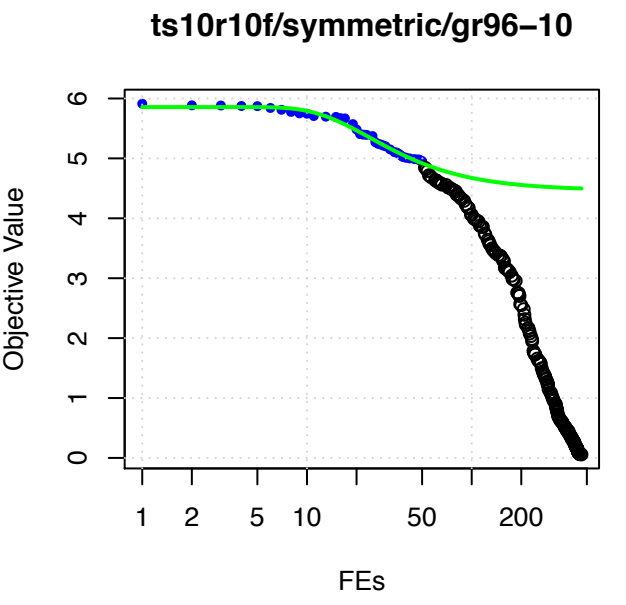
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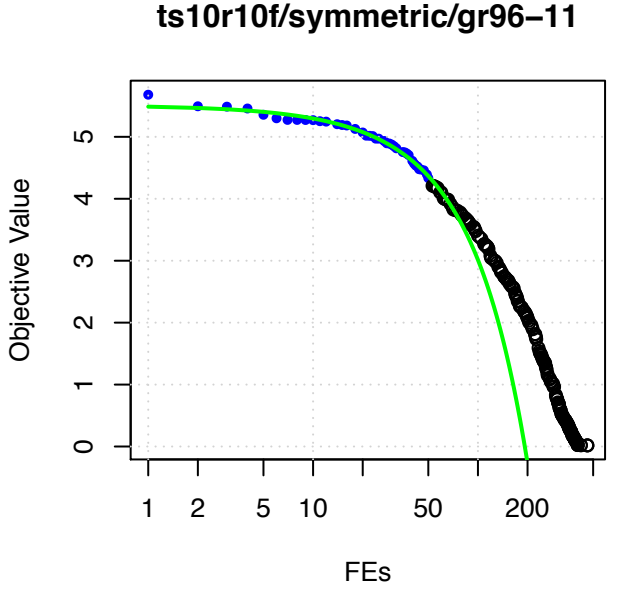
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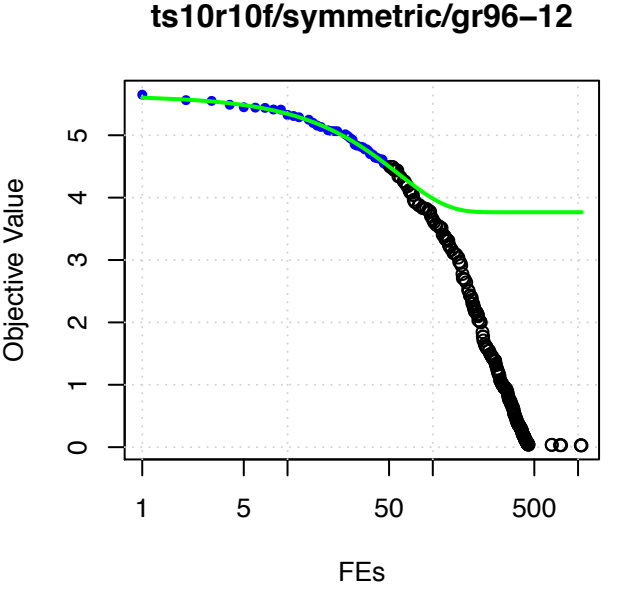
FEs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Objective Value
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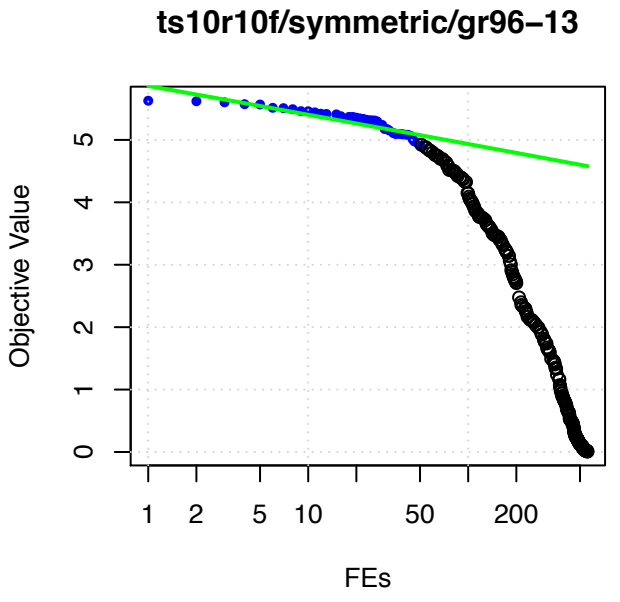
FEs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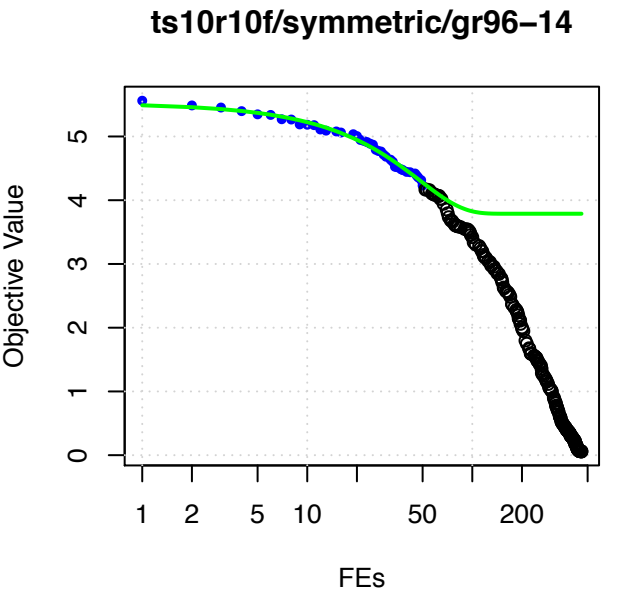
FEs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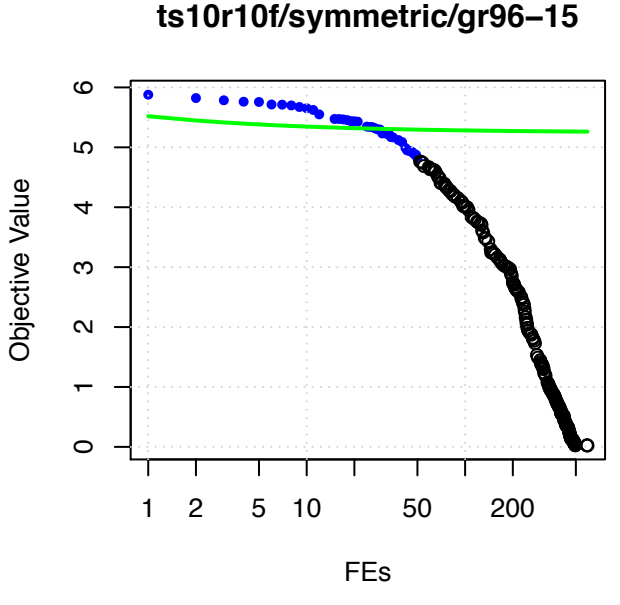
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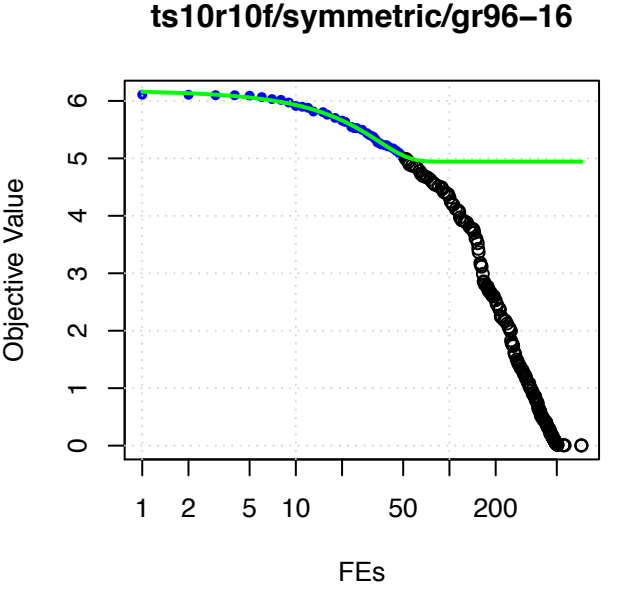
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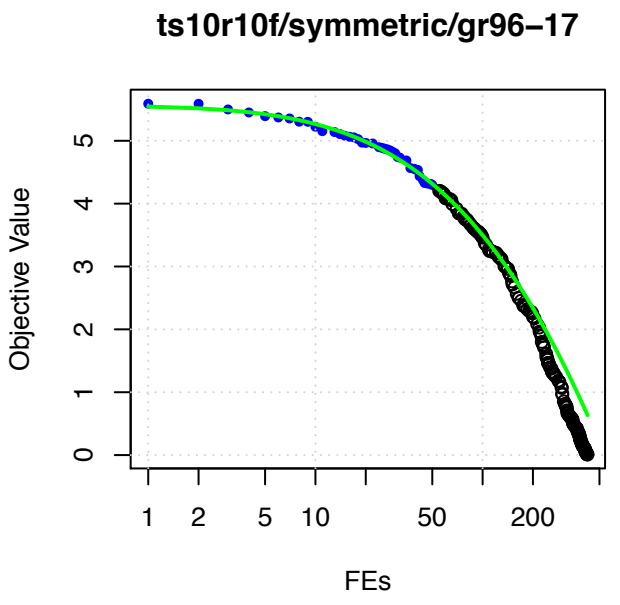
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Objective Value
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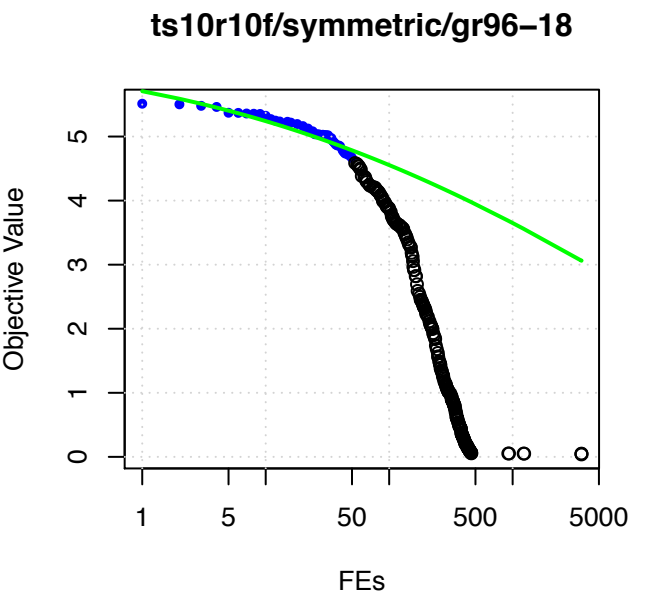
FEs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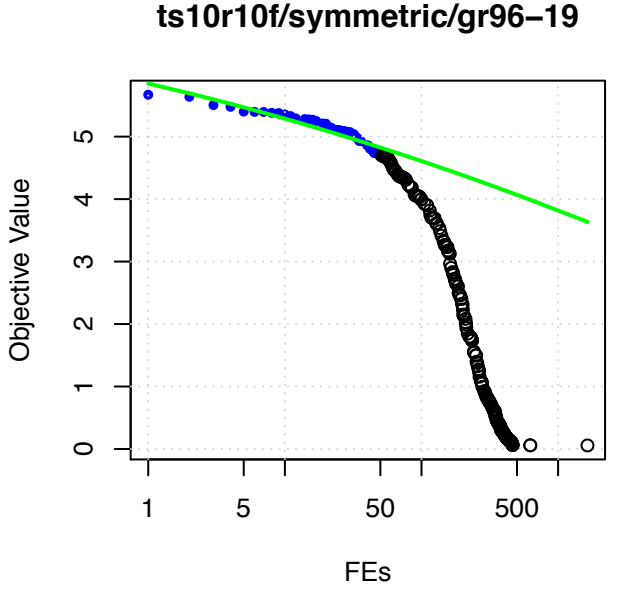
5000
FEs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Objective Value
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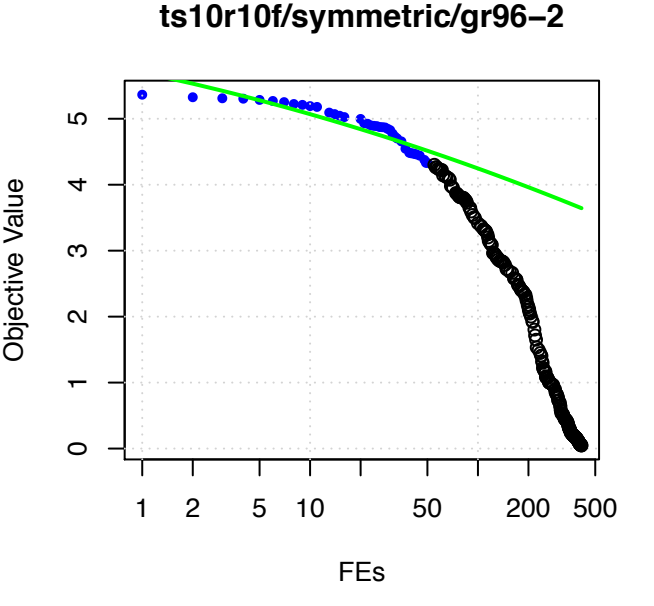
500
FEs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Objective Value
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10
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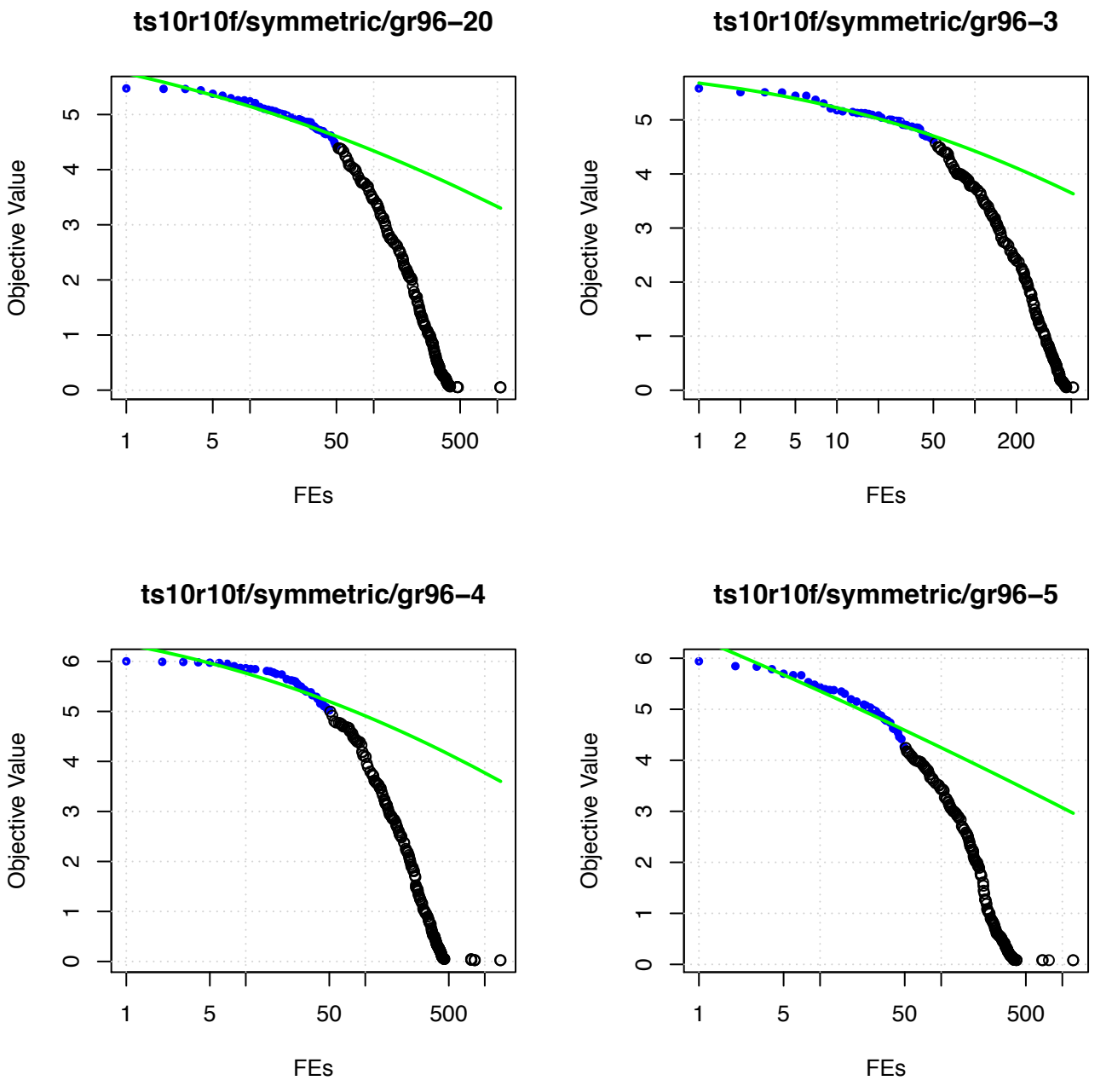
200
500
FEs


ts10r10f/symmetric/gr96−20
ts10r10f/symmetric/gr96−3
ts10r10f/symmetric/gr96−4
ts10r10f/symmetric/gr96−5
Objective Value
FEs
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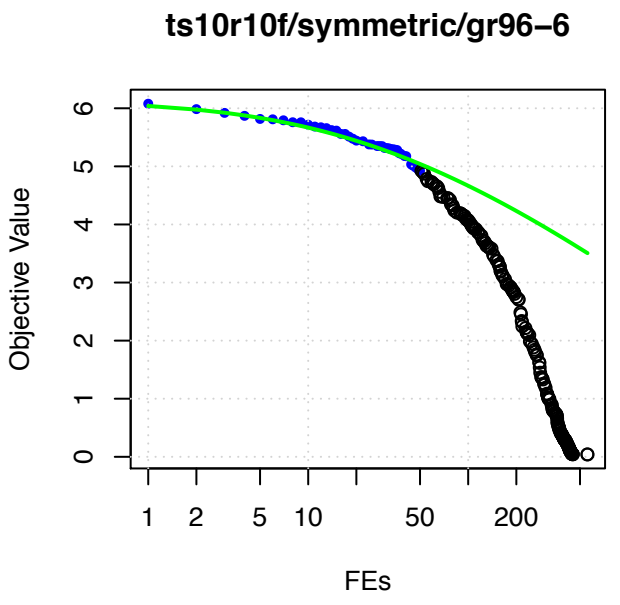
2
3
4
5
6
1
2
5
10
50
200
500


ts10r10f/symmetric/gr96−6
Objective Value
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2
5
10
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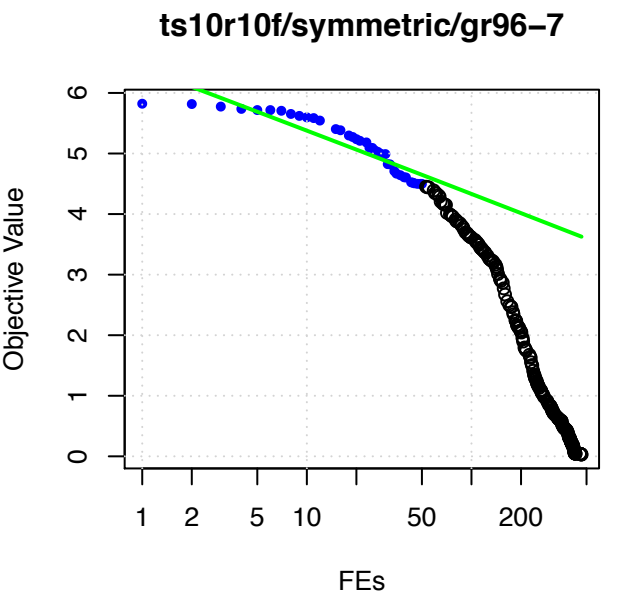
200
FEs


ts10r10f/symmetric/gr96−7
Objective Value
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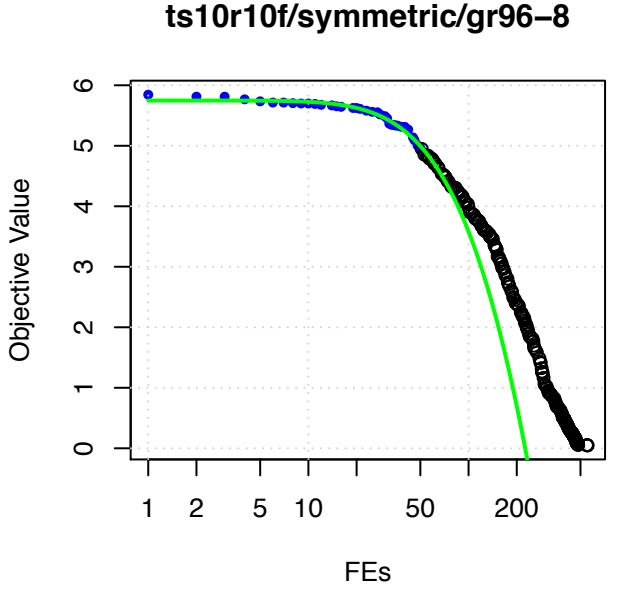
200
FEs


ts10r10f/symmetric/gr96−8
Objective Value
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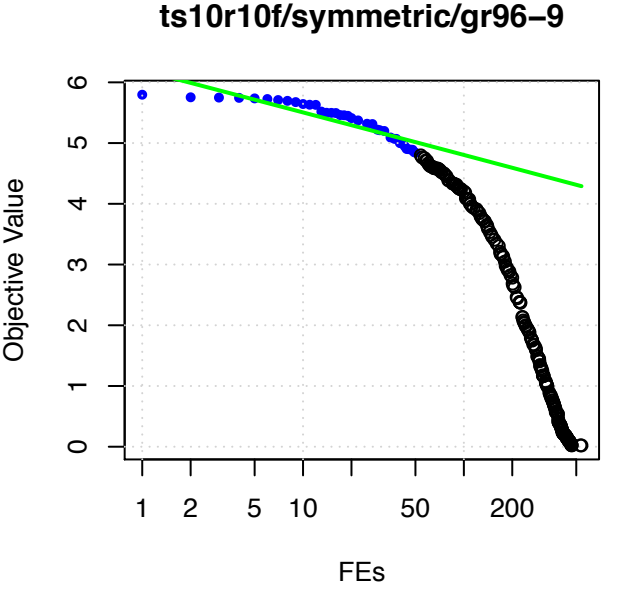
FEs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Objective Value
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5
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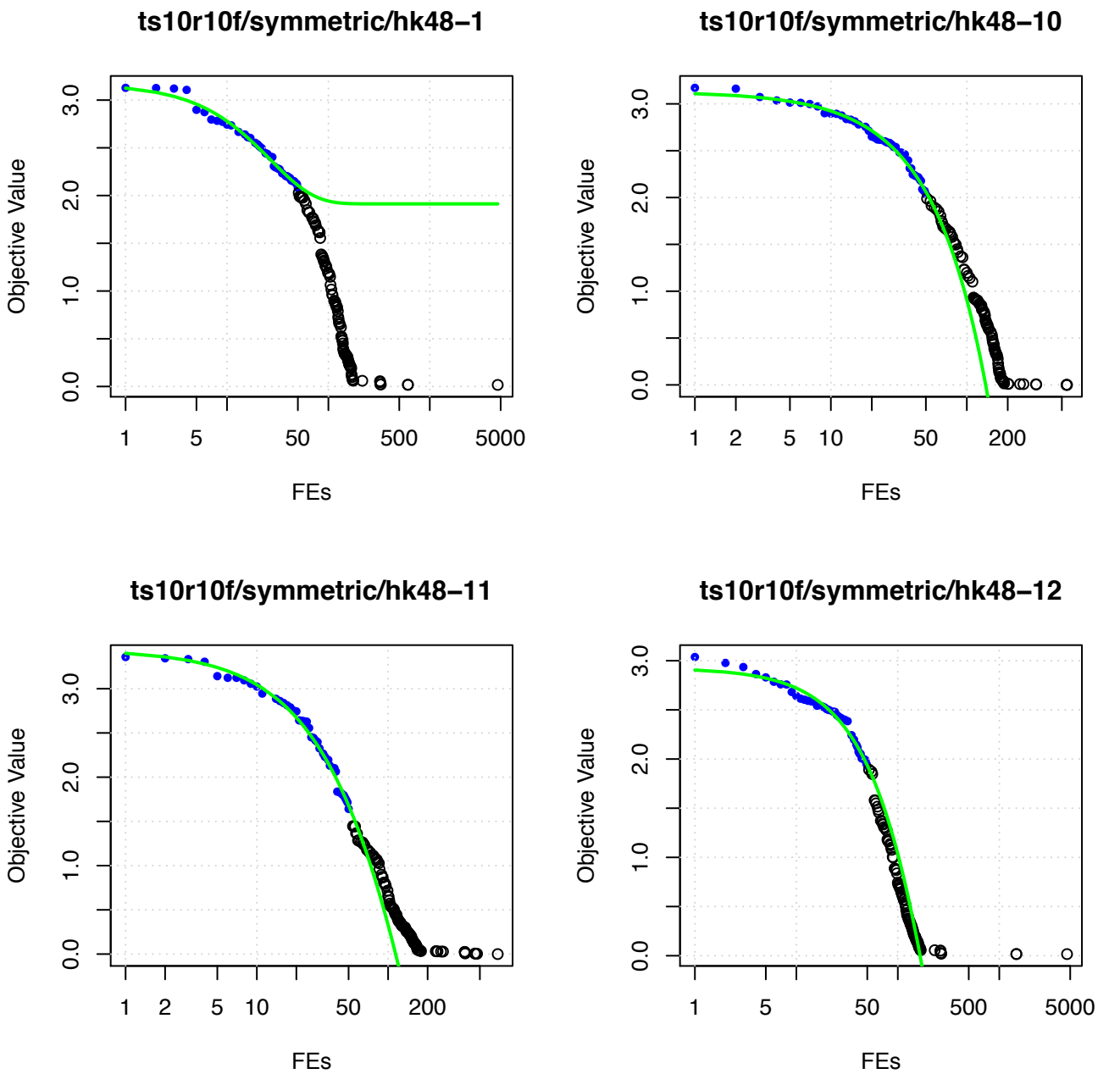
200
FEs


ts10r10f/symmetric/hk48−1
ts10r10f/symmetric/hk48−10
ts10r10f/symmetric/hk48−11
ts10r10f/symmetric/hk48−12
Objective Value
FEs
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3.0
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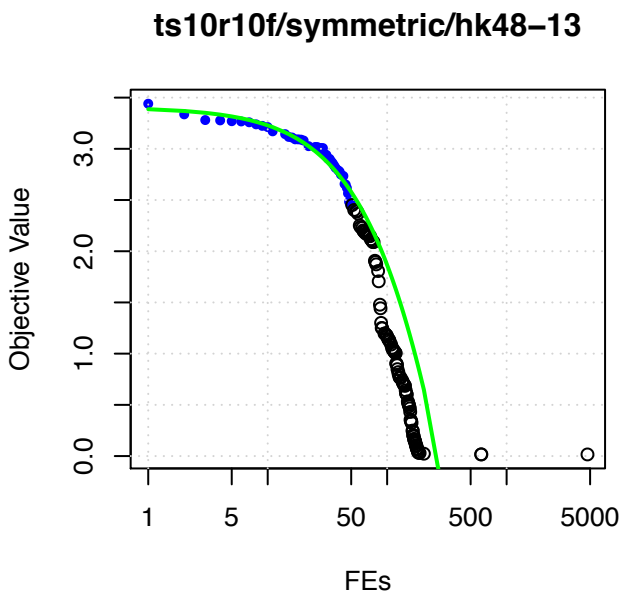
ts10r10f/symmetric/hk48−13
Objective Value
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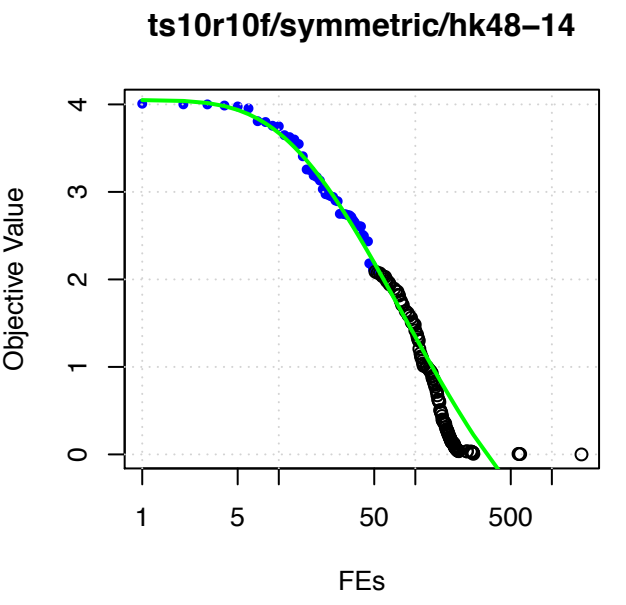
50
500
5000
FEs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Objective Value
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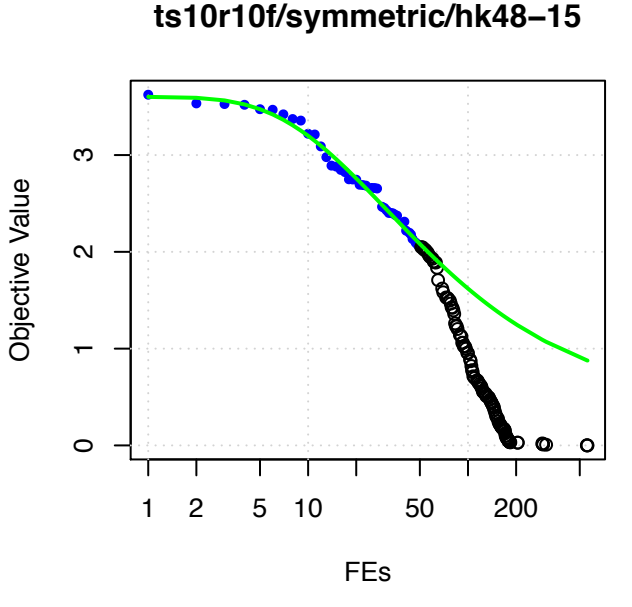
FEs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Objective Value
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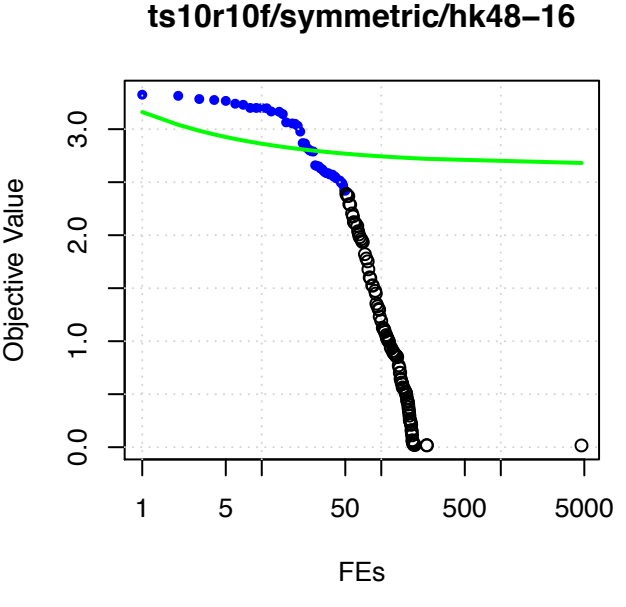
200
FEs


ts10r10f/symmetric/hk48−16
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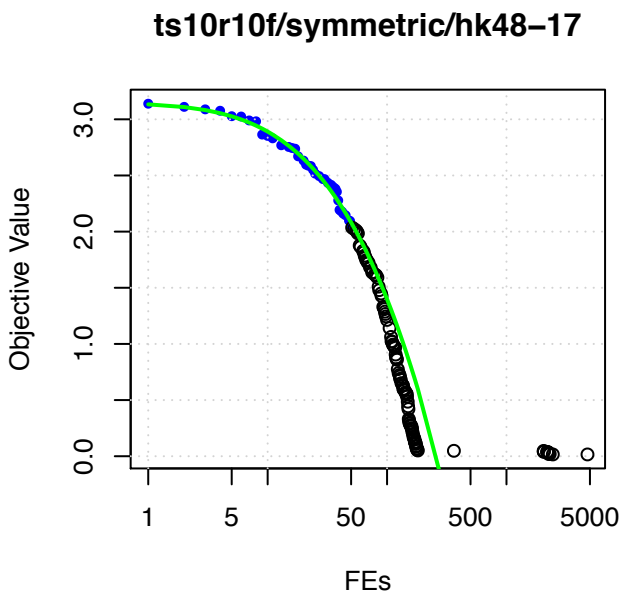
FEs


ts10r10f/symmetric/hk48−17
Objective Value
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3.0
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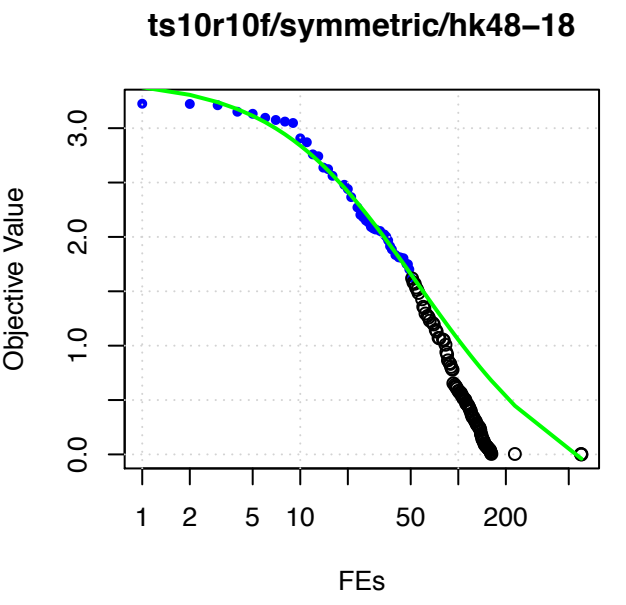
50
500
5000
FEs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Objective Value
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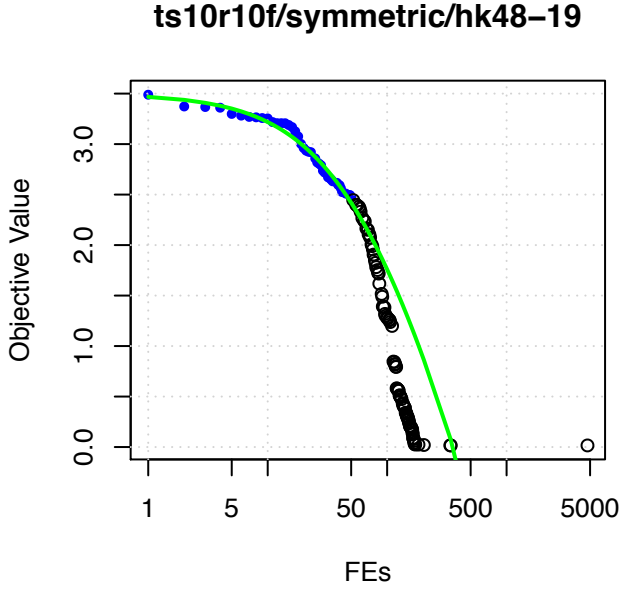
200
FEs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Objective Value
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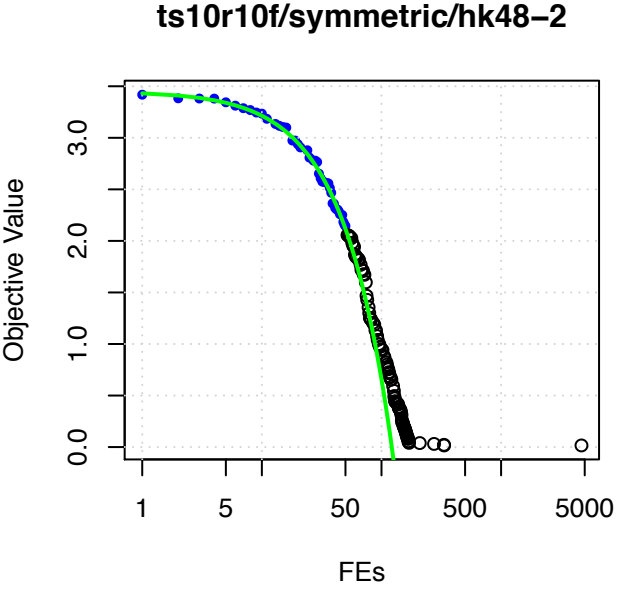
500
5000
FEs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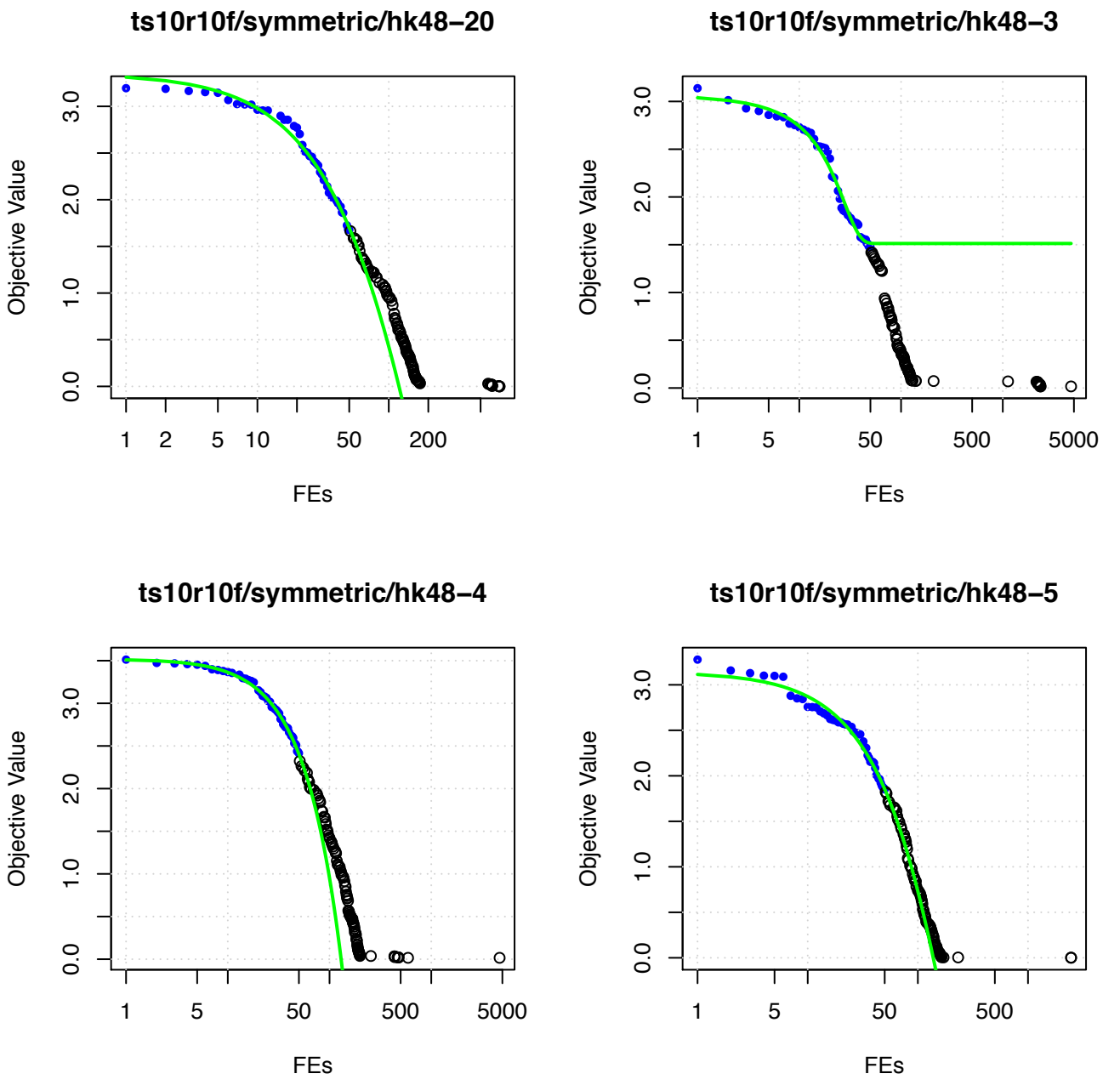
5000
FEs


ts10r10f/symmetric/hk48−20
ts10r10f/symmetric/hk48−3
ts10r10f/symmetric/hk48−4
ts10r10f/symmetric/hk48−5
Objective Value
FEs
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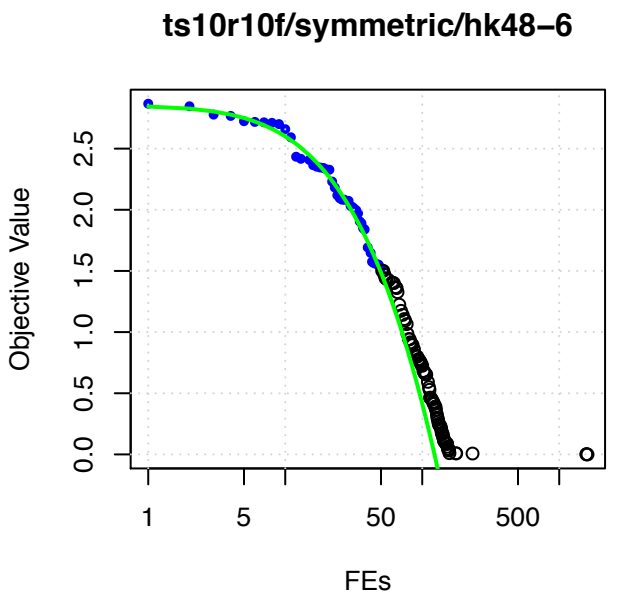
5000


ts10r10f/symmetric/hk48−6
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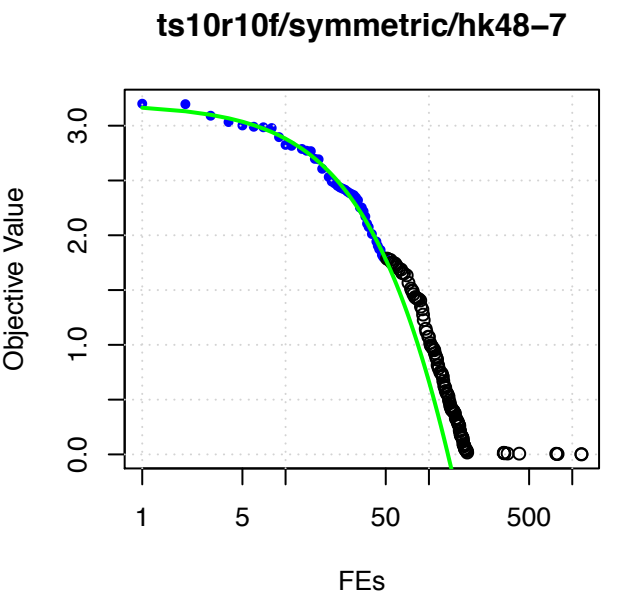
FEs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Objective Value
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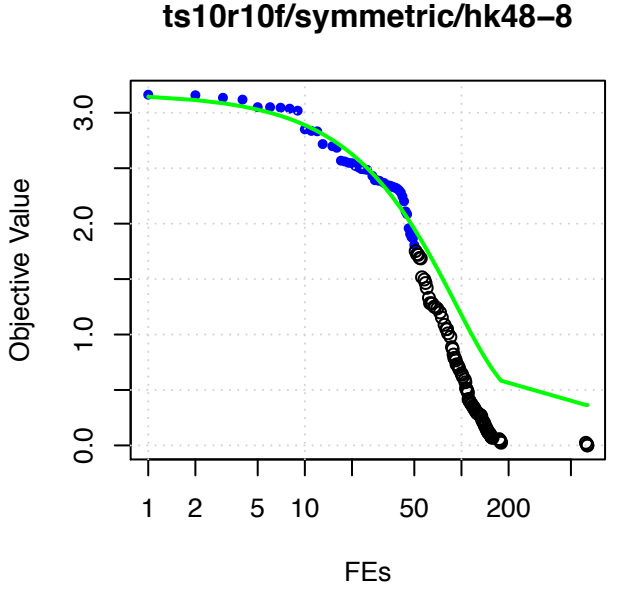
FEs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Objective Value
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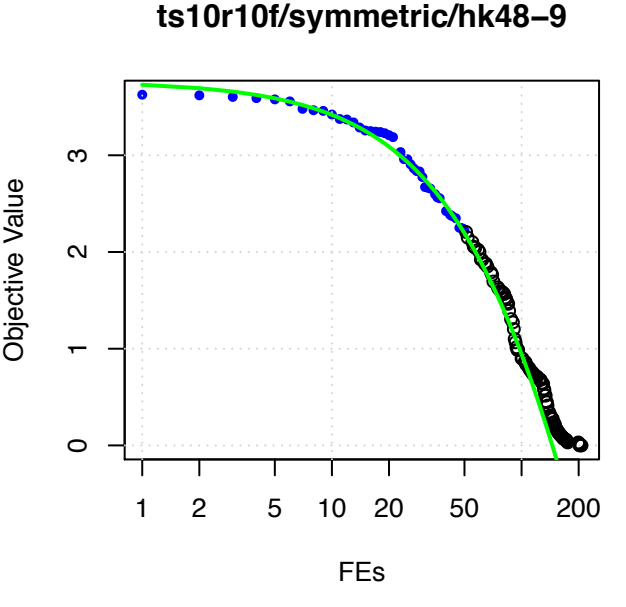
FEs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Objective Value
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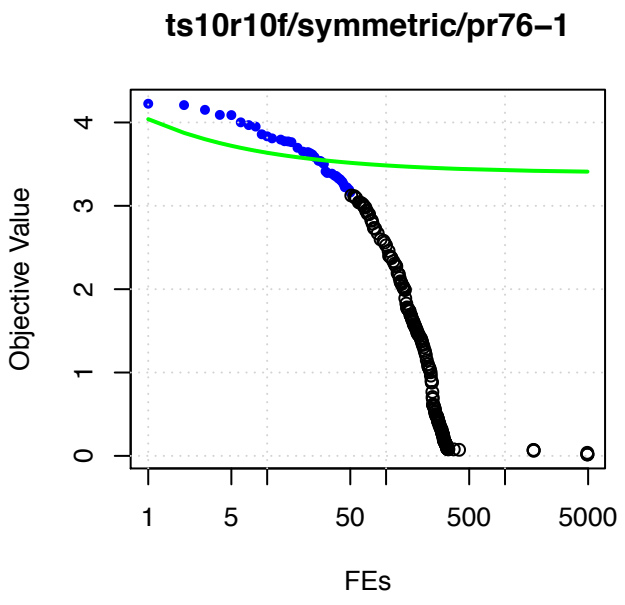
FEs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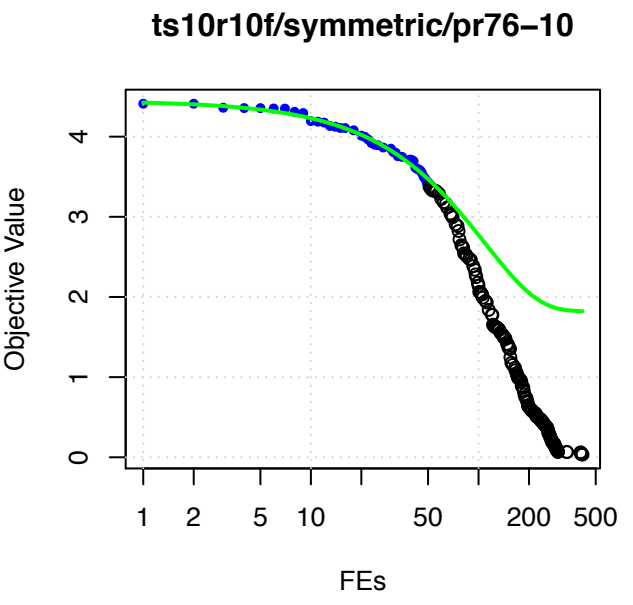
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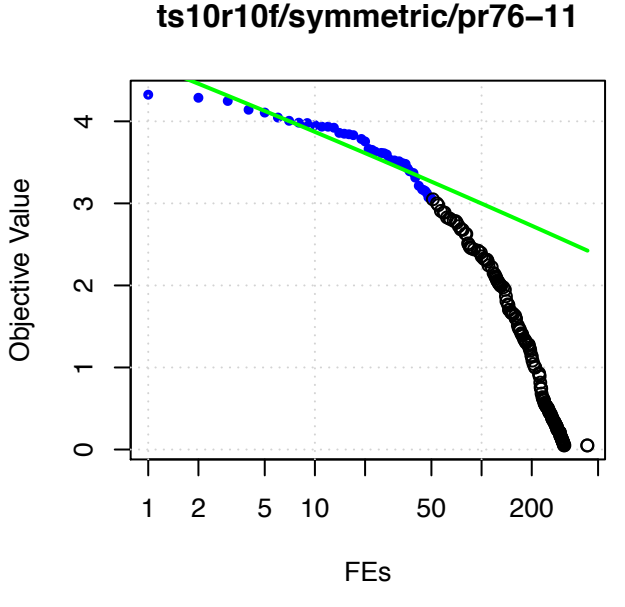
500
FEs


ts10r10f/symmetric/pr76−11
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2
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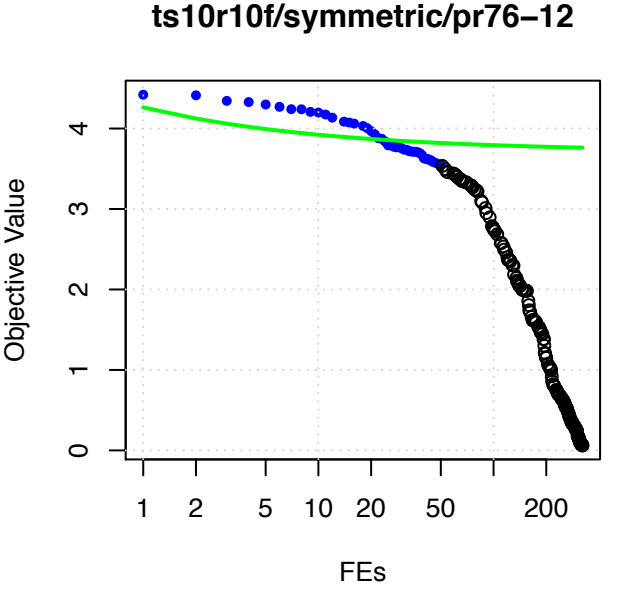
200
FEs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2
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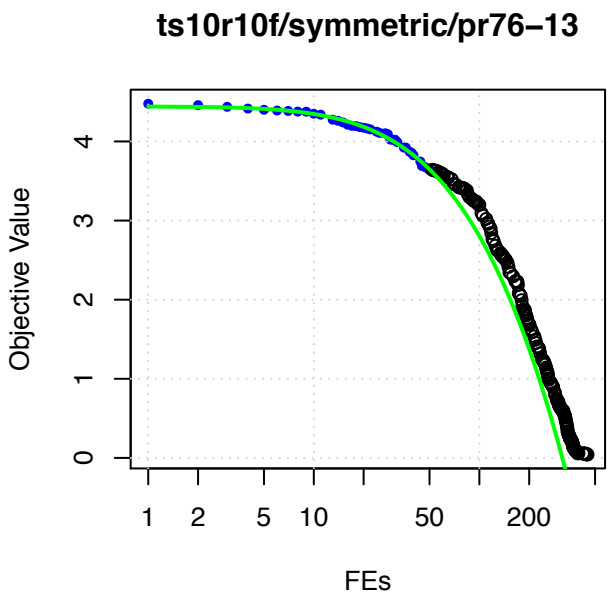
200
FEs


ts10r10f/symmetric/pr76−13
Objective Value
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2
5
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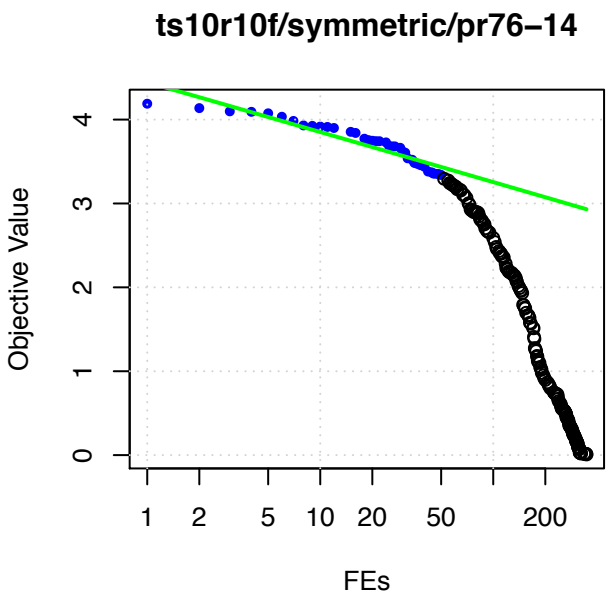
50
200
FEs


ts10r10f/symmetric/pr76−14
Objective Value
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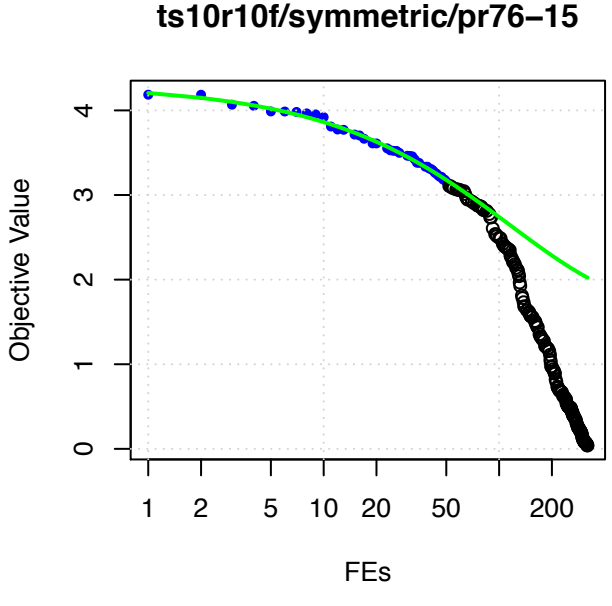
200
FEs


ts10r10f/symmetric/pr76−15
Objective Value
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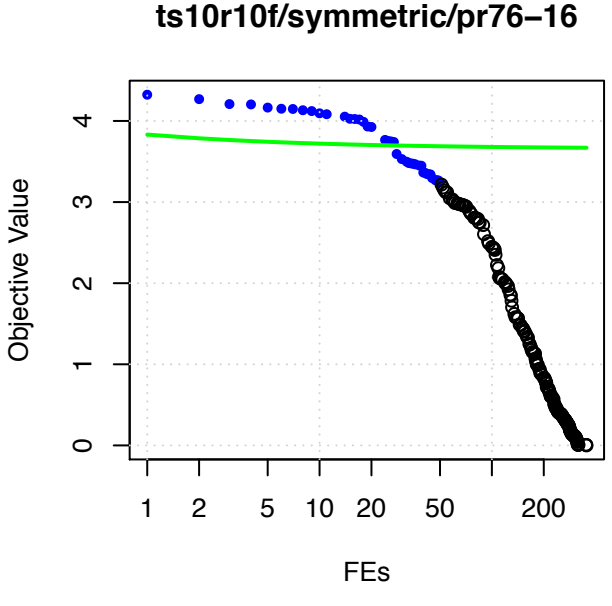
200
FEs


ts10r10f/symmetric/pr76−16
Objective Value
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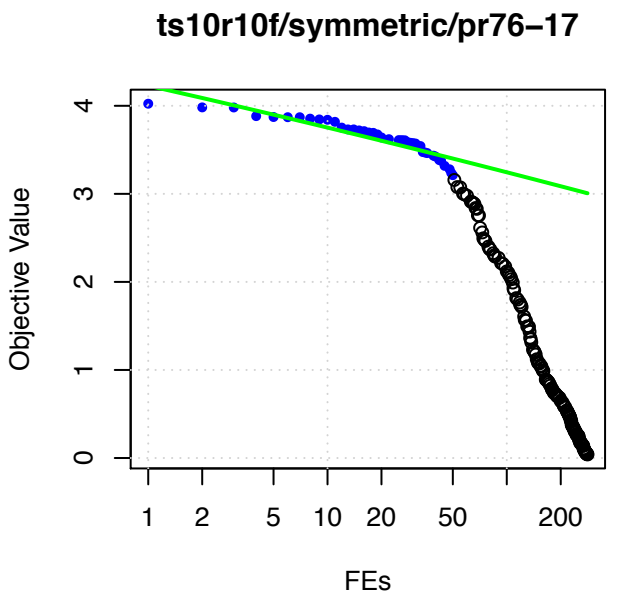
200
FEs


ts10r10f/symmetric/pr76−17
Objective Value
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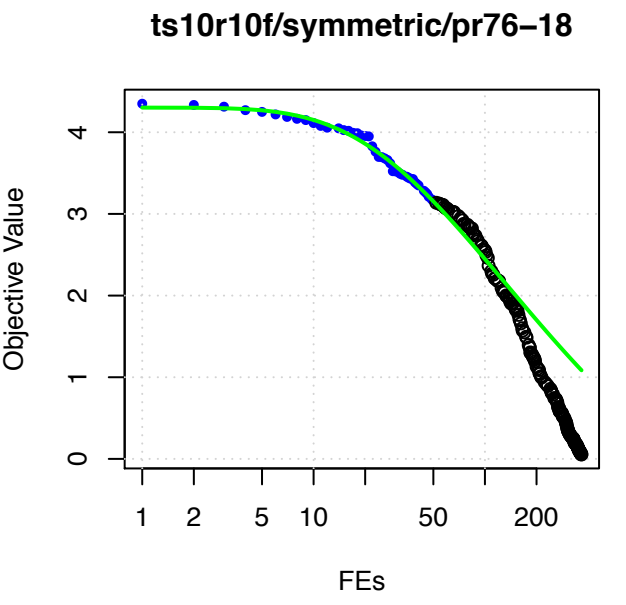
FEs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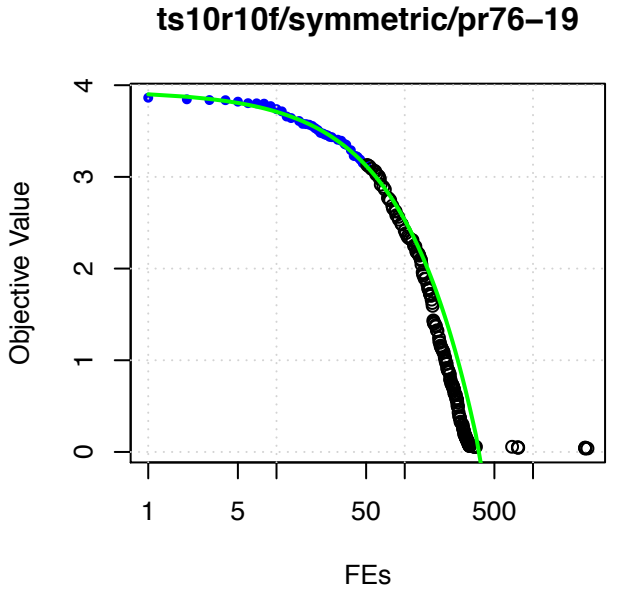
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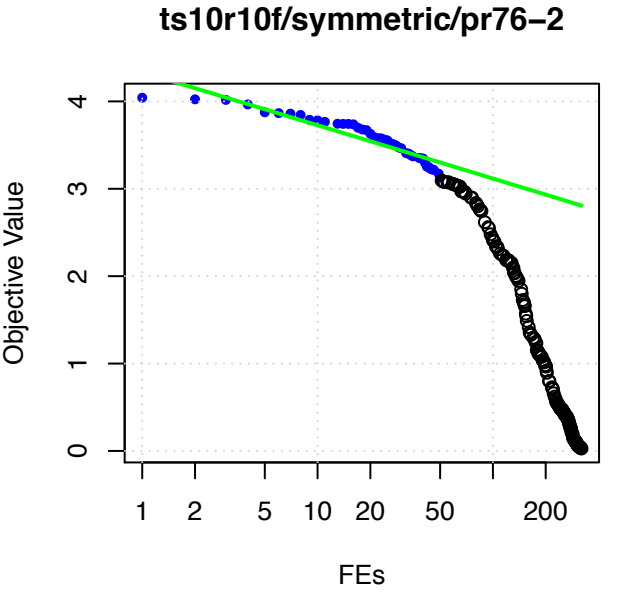
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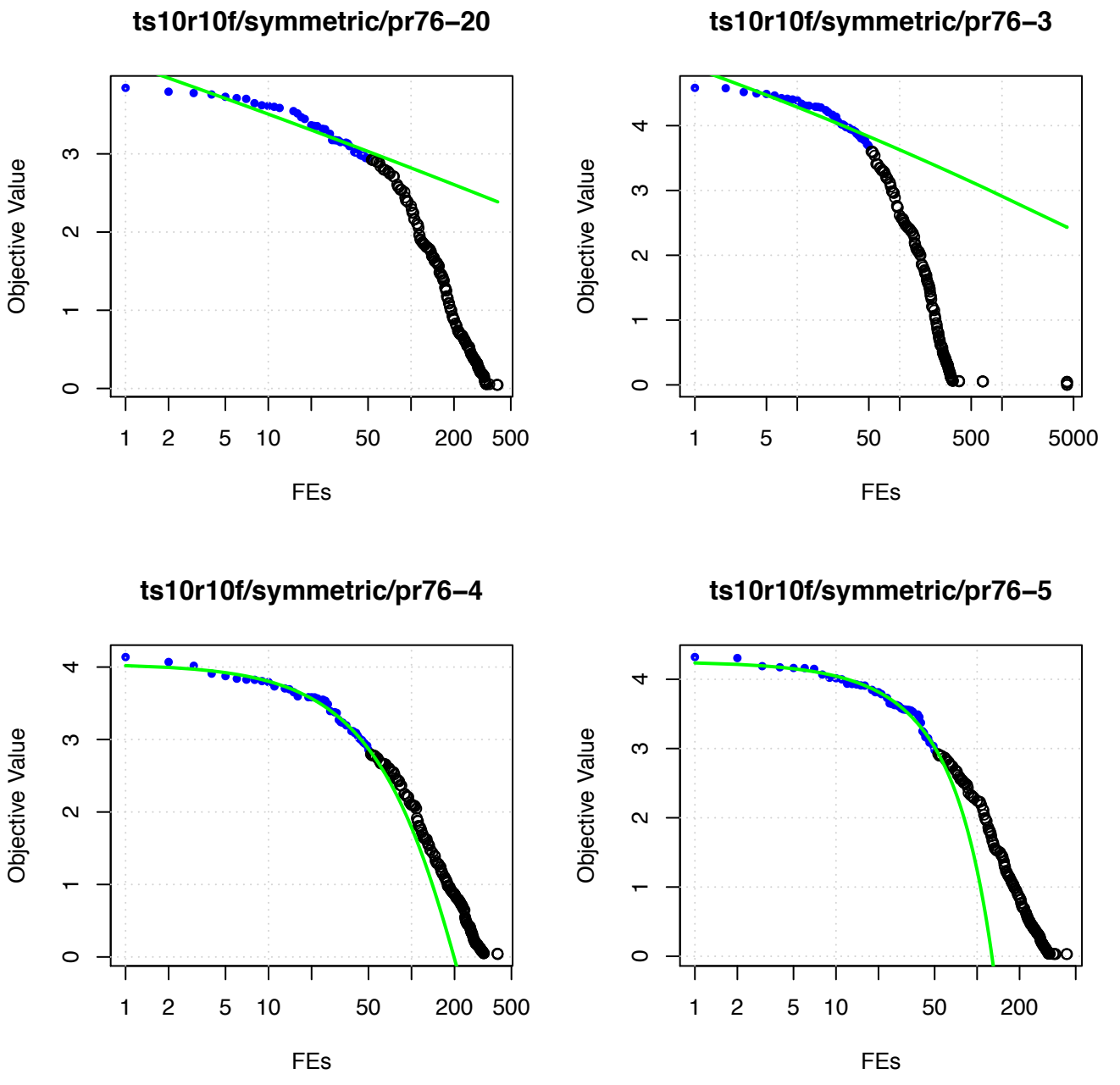
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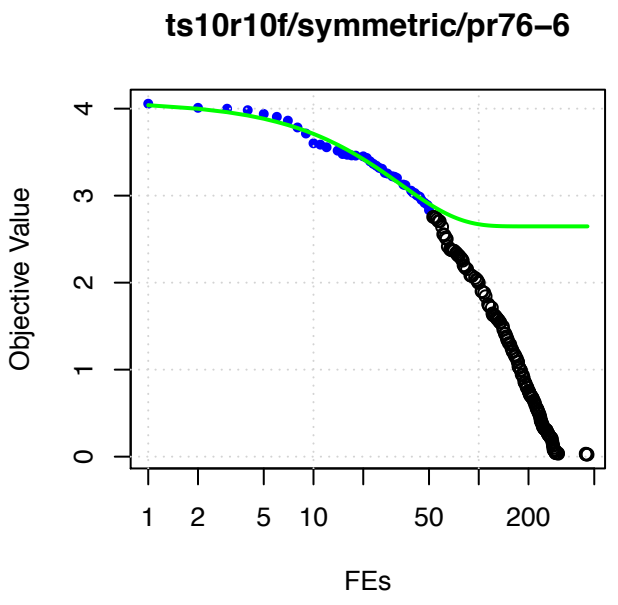
Objective Value
FEs
ts10r10f/symmetric/pr76−4
Objective Value
FEs
ts10r10f/symmetric/pr76−5
Objective Value
FEs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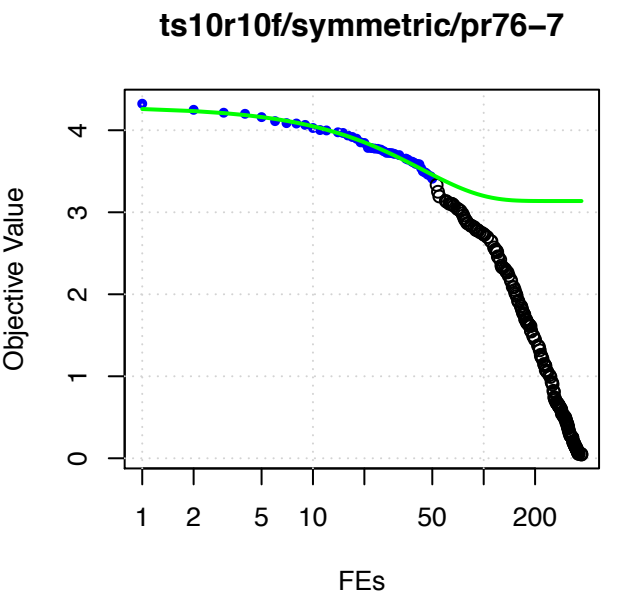
ts10r10f/symmetric/pr76−7
Objective Value
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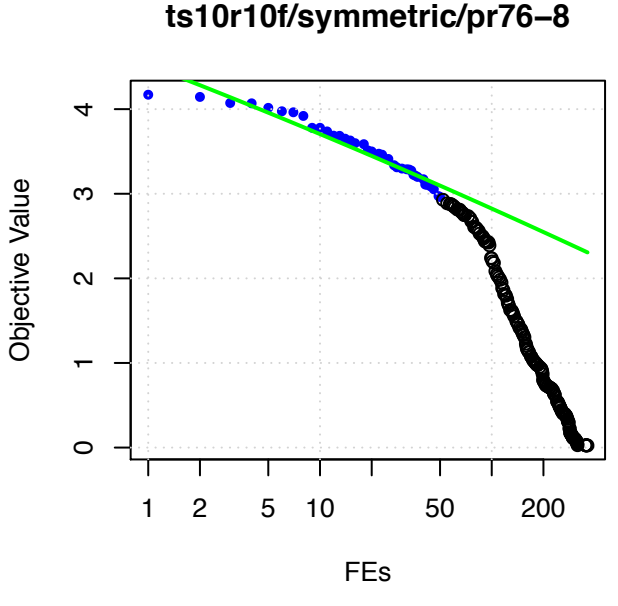
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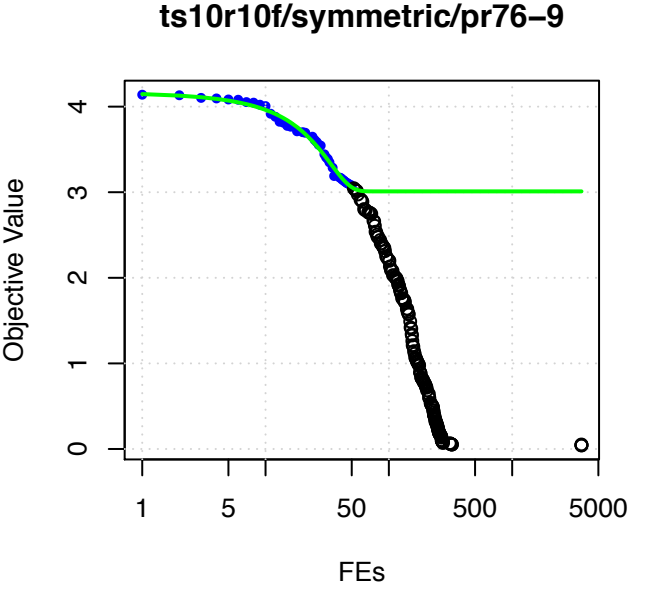
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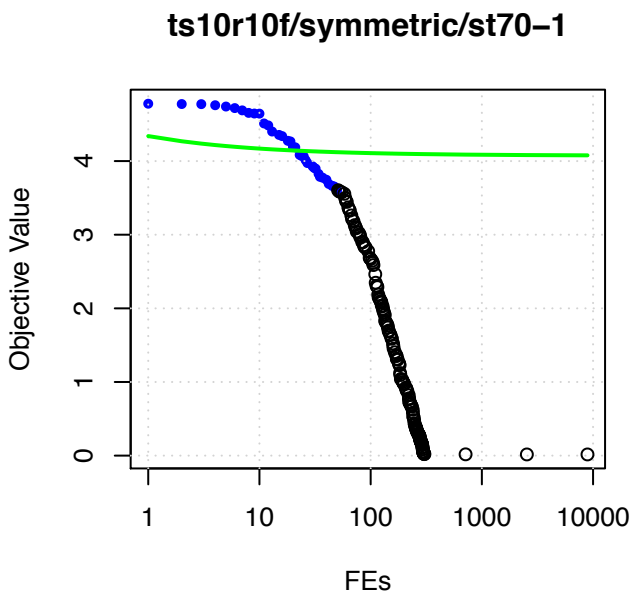
FEs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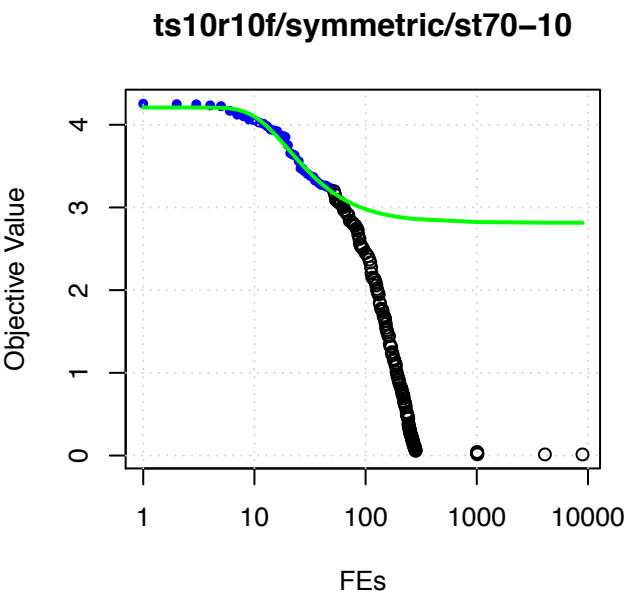
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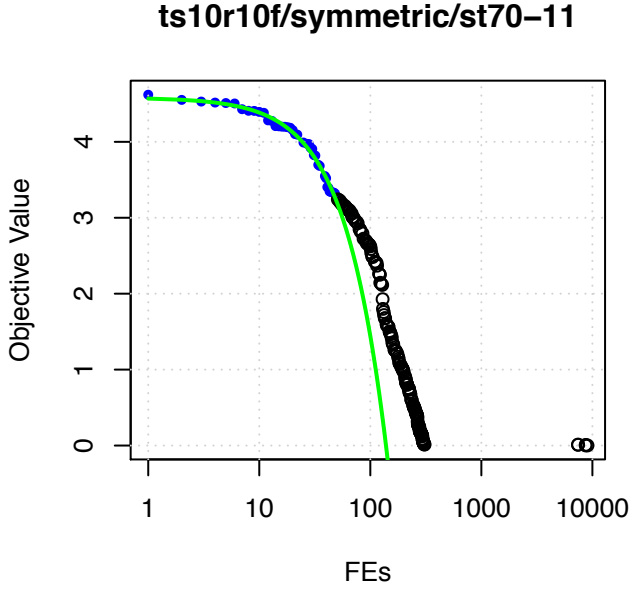
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FEs
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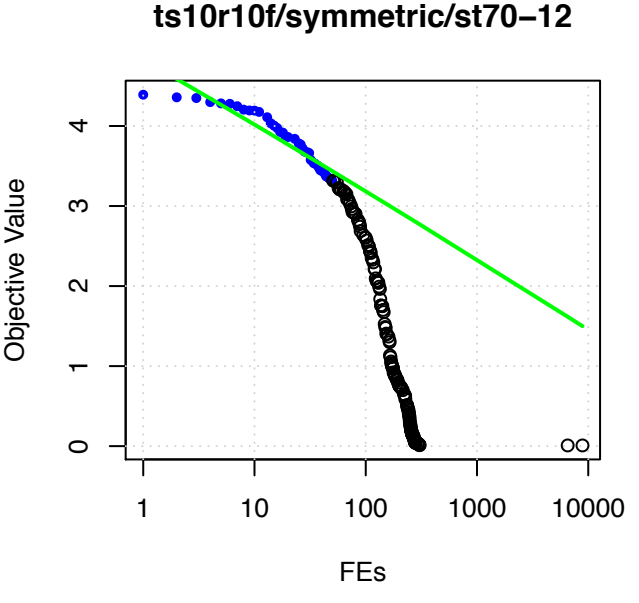
ts10r10f/symmetric/st70−12
Objective Value
FEs
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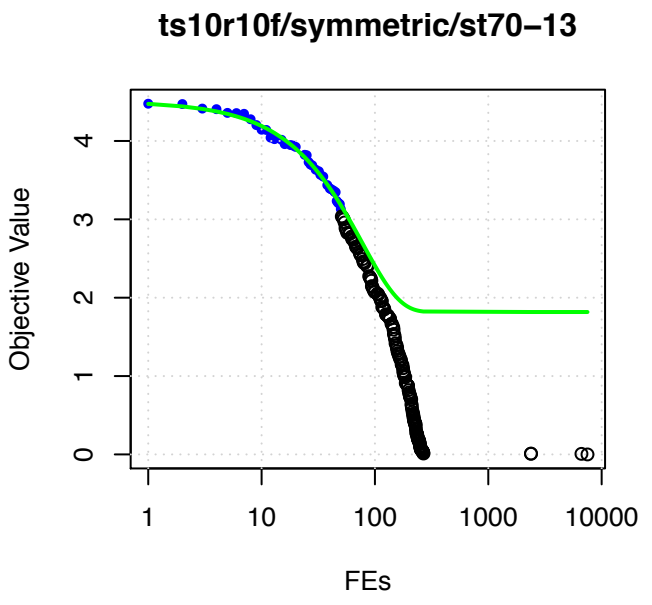
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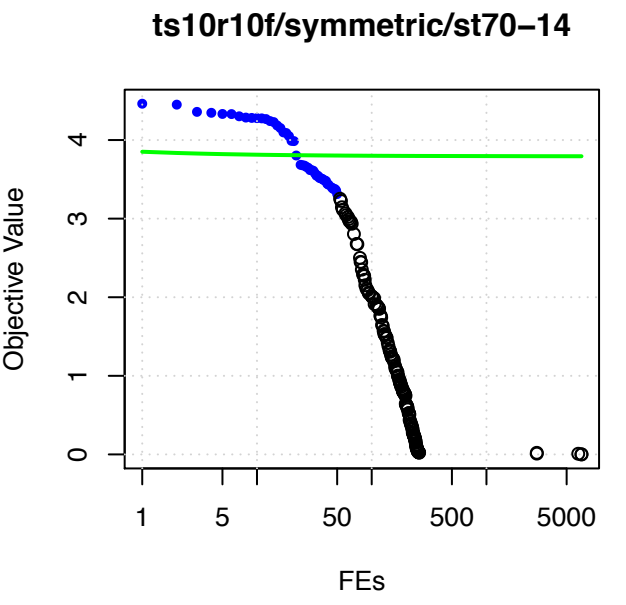
1000
10000
FEs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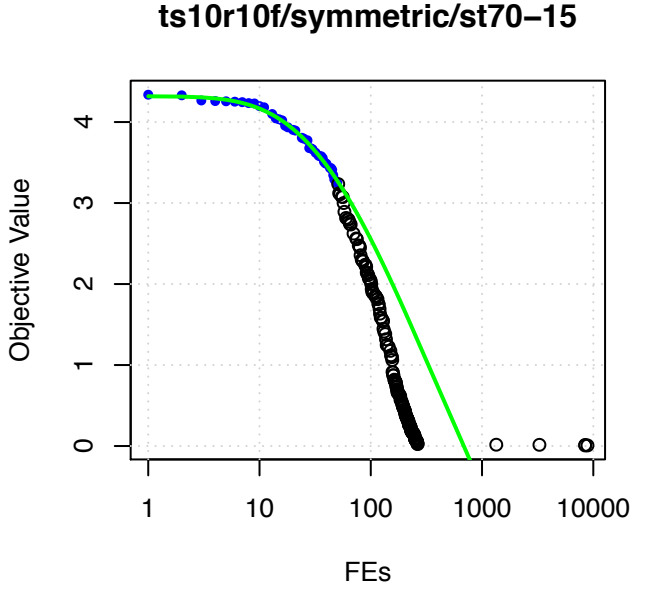
FEs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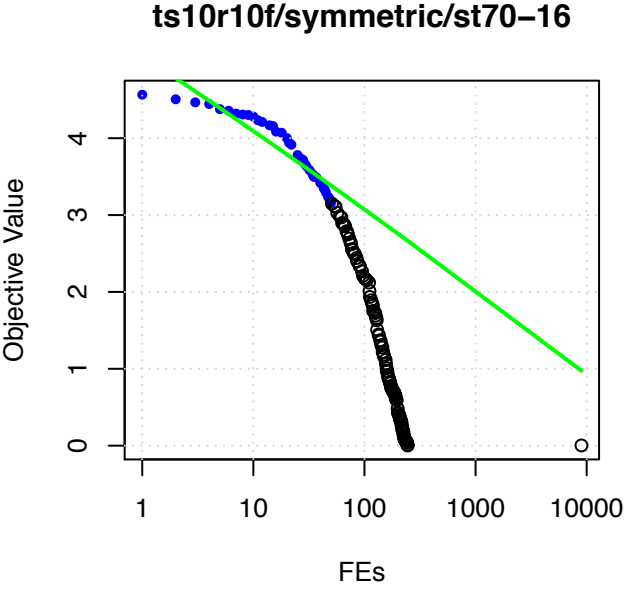
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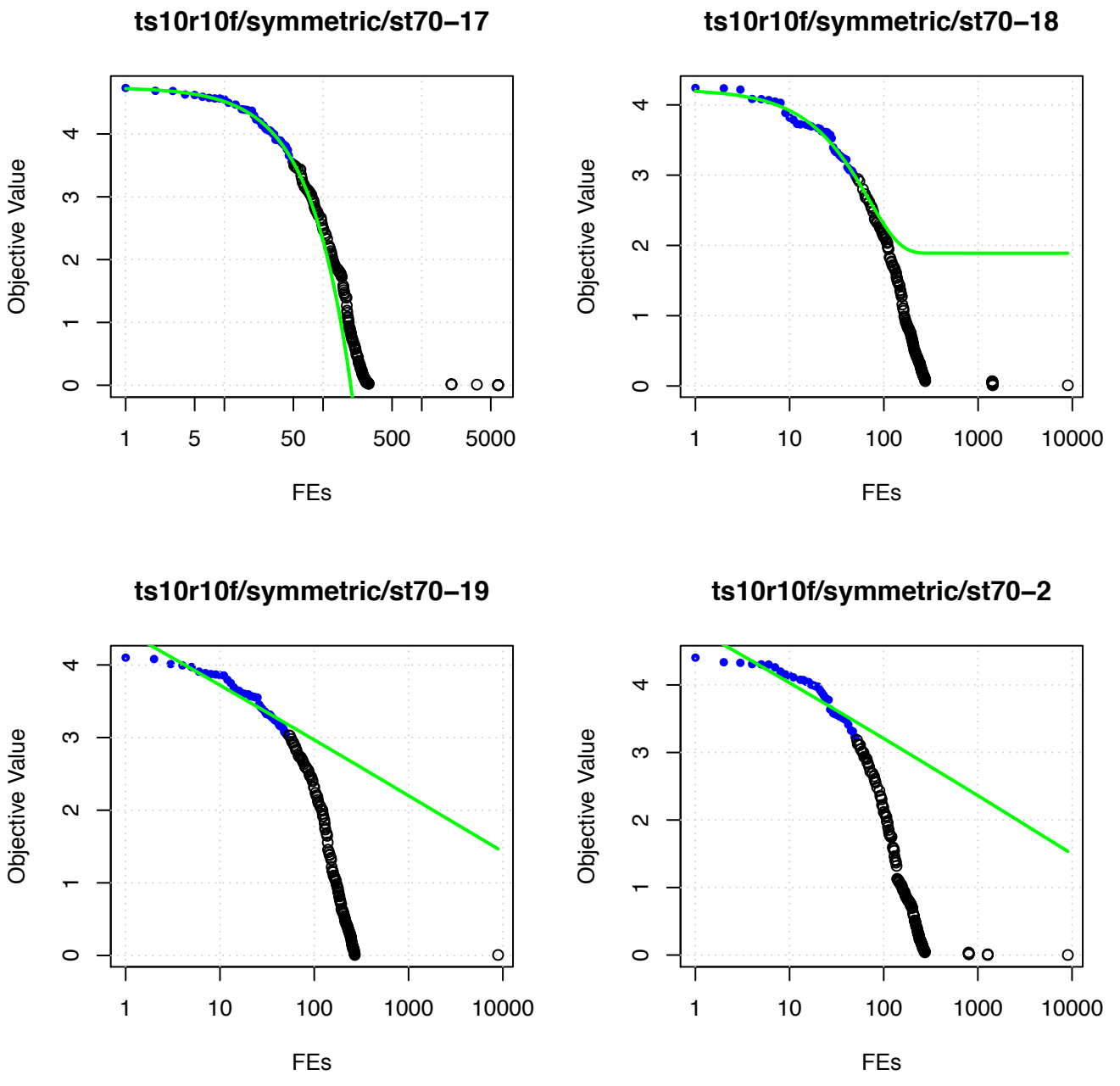
10000
FEs


ts10r10f/symmetric/st70−17
ts10r10f/symmetric/st70−18
ts10r10f/symmetric/st70−19
ts10r10f/symmetric/st70−2
Objective Value
FEs
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10
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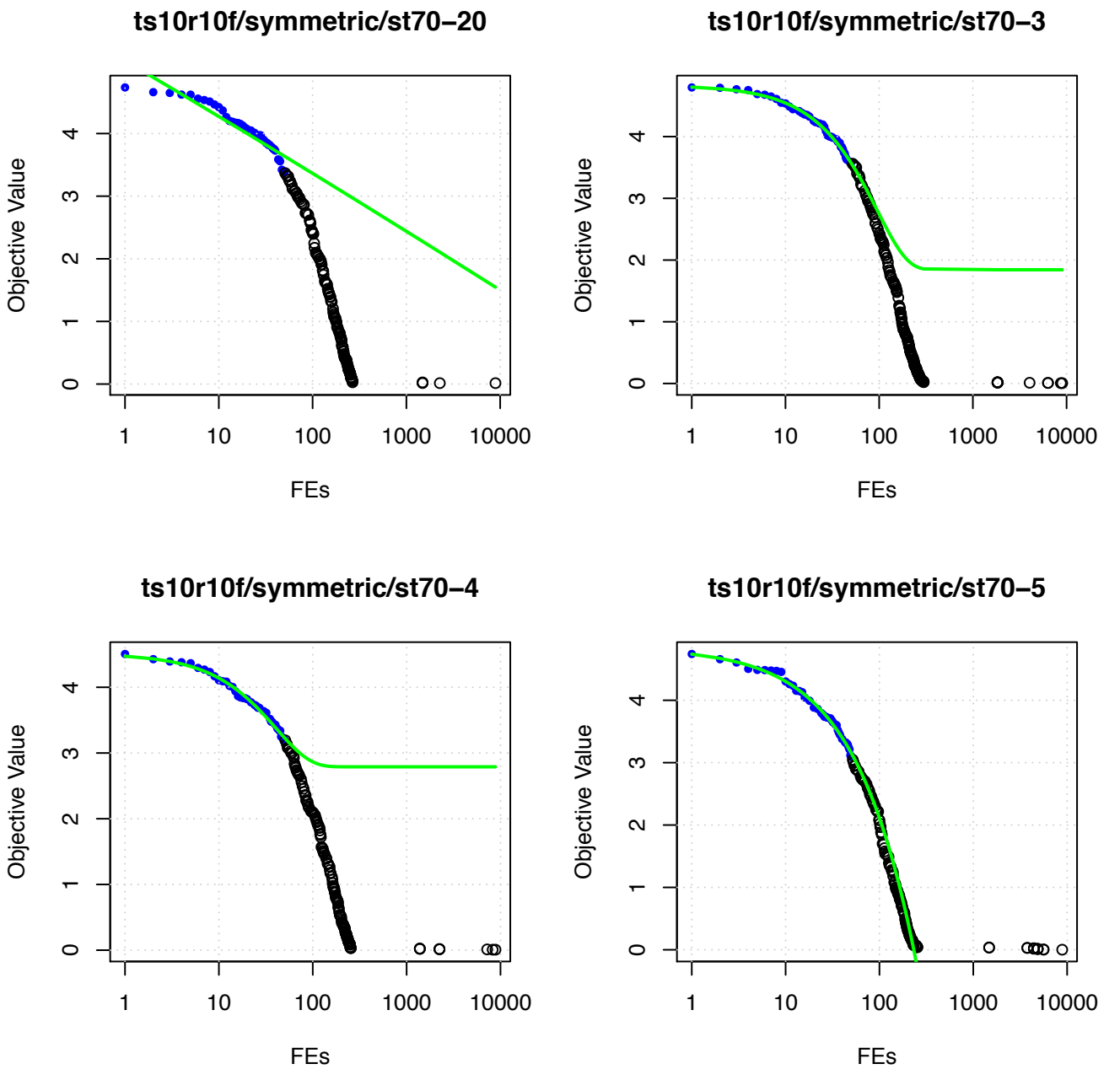
1000
10000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ts10r10f/symmetric/st70−3
ts10r10f/symmetric/st70−4
ts10r10f/symmetric/st70−5
Objective Value
FEs
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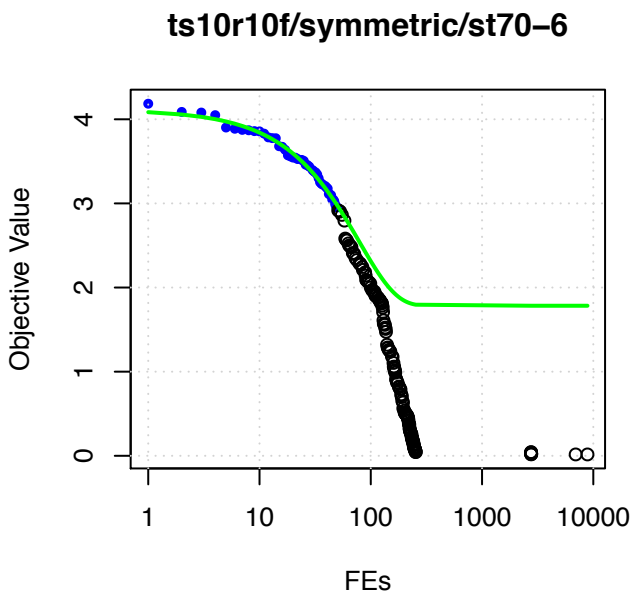
1000
10000


ts10r10f/symmetric/st70−6
Objective Value
FEs
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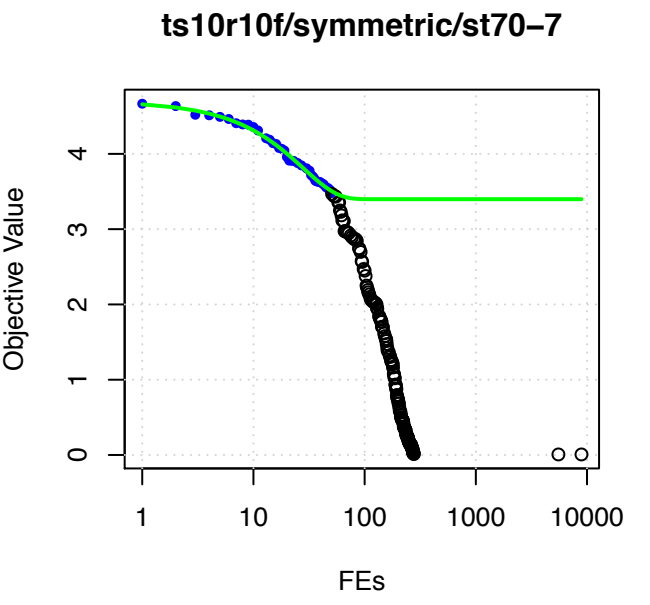
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Objective Value
FEs
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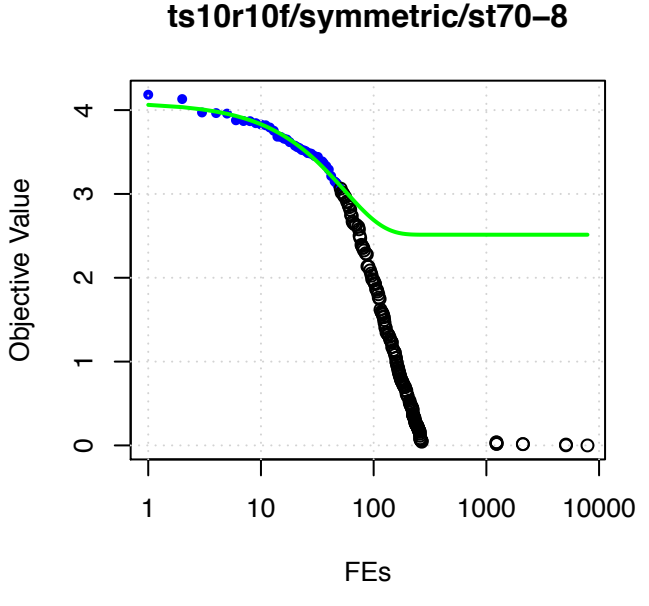
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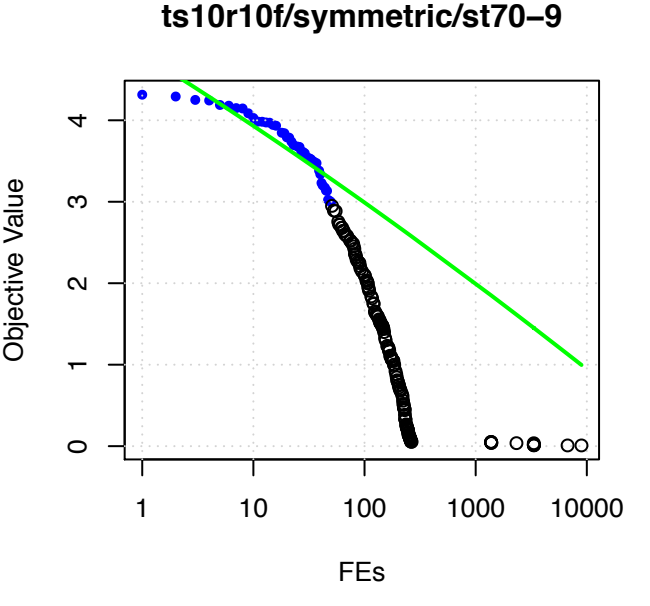
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Objective Value
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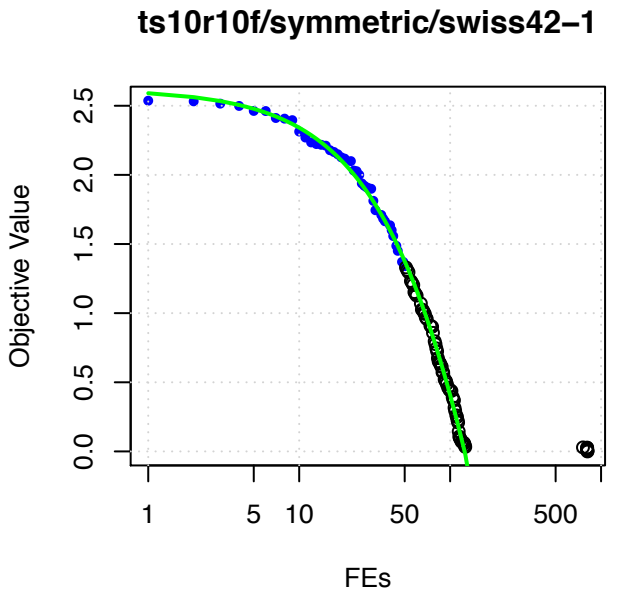
ts10r10f/symmetric/swiss42−1
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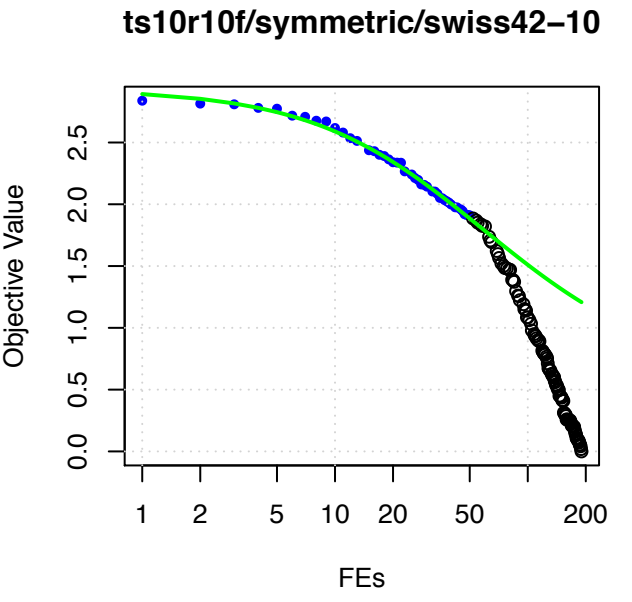
FEs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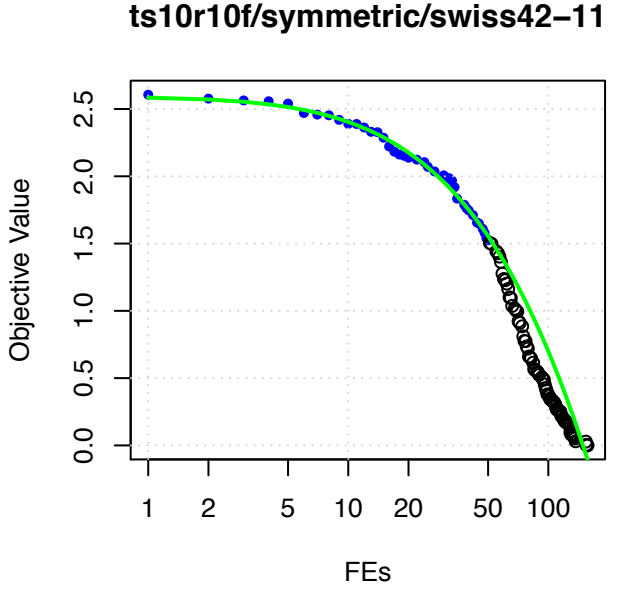
FEs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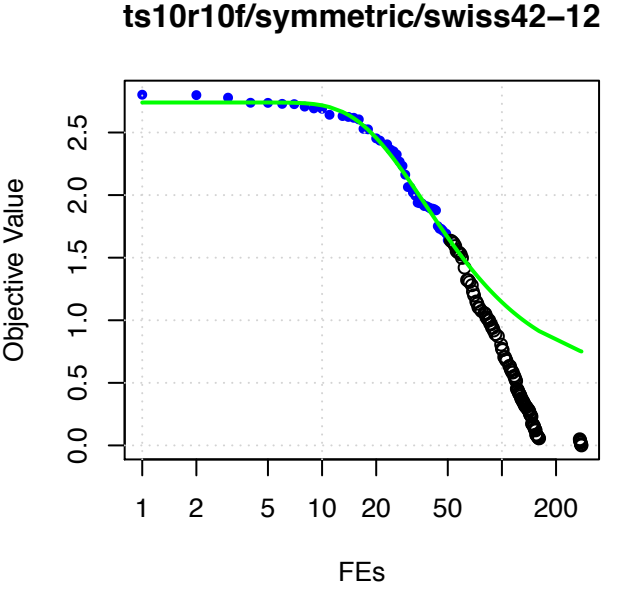
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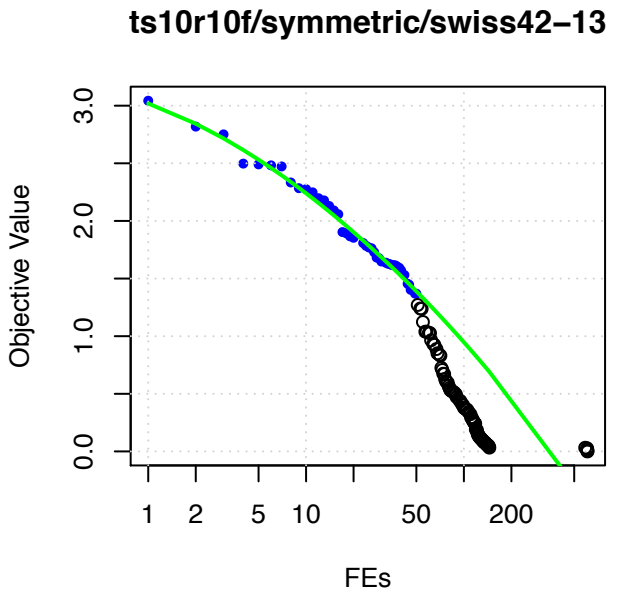
FEs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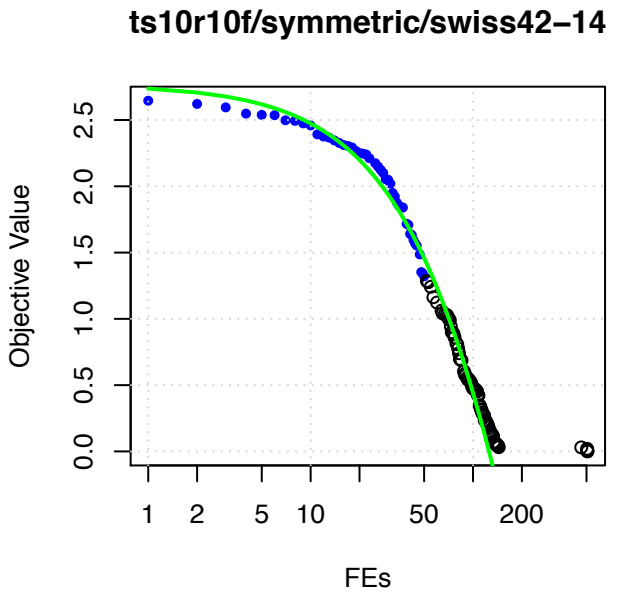
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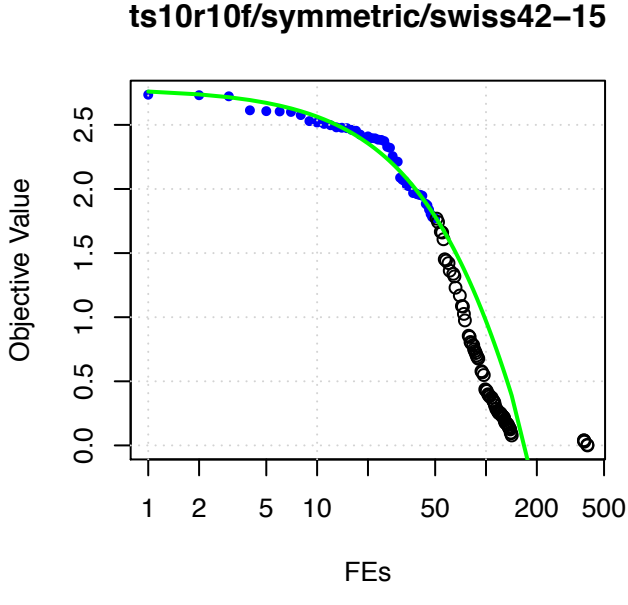
FEs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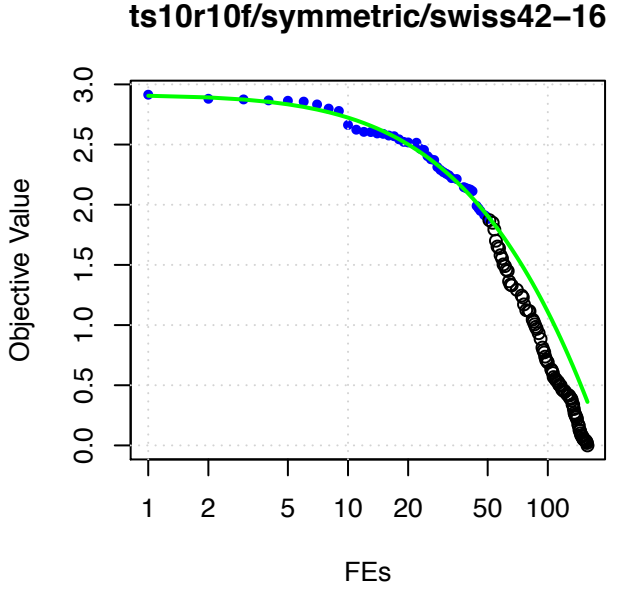
FEs


ts10r10f/symmetric/swiss42−16
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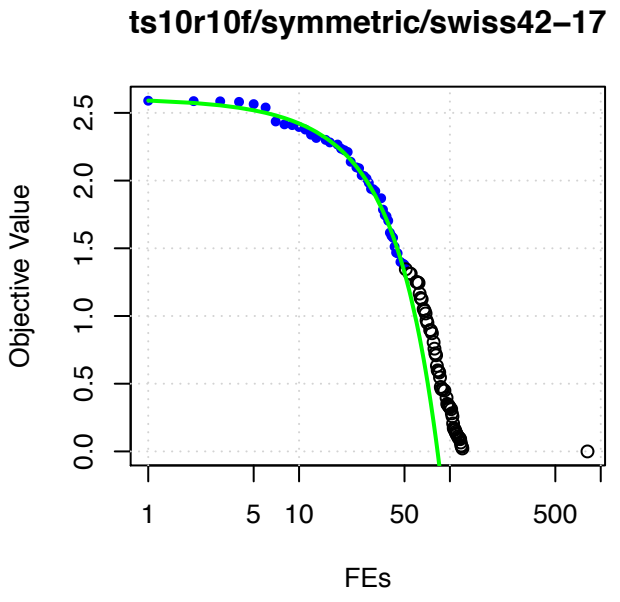
FEs


ts10r10f/symmetric/swiss42−17
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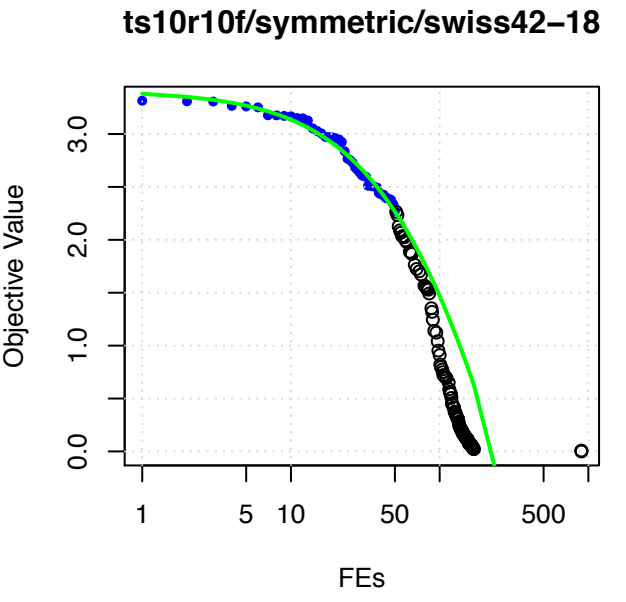
FEs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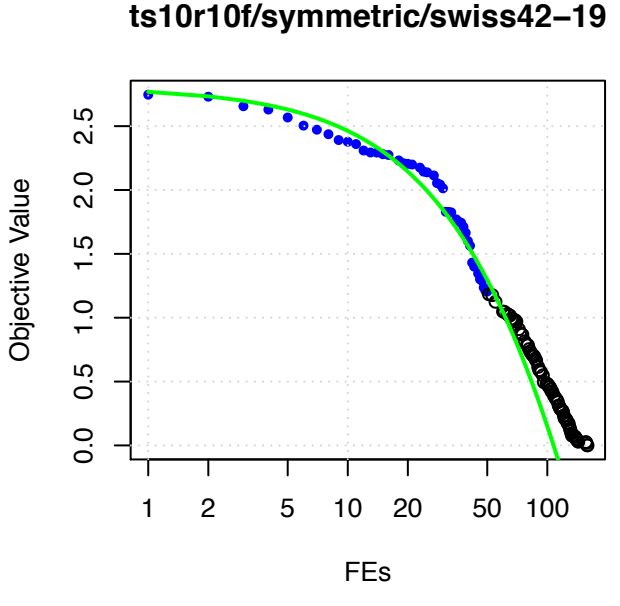
FEs


ts10r10f/symmetric/swiss42−19
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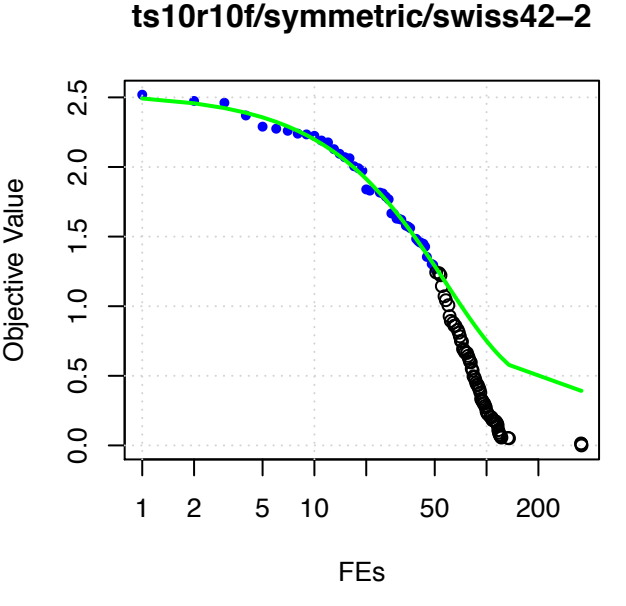
FEs


ts10r10f/symmetric/swiss42−2
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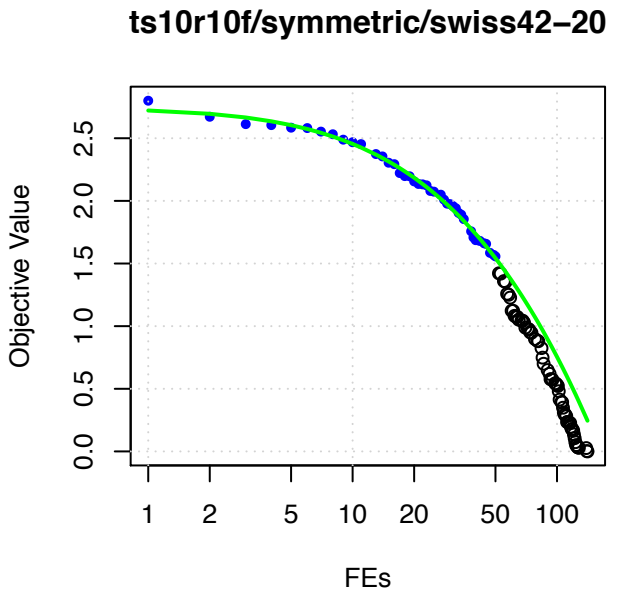
200
FEs


ts10r10f/symmetric/swiss42−20
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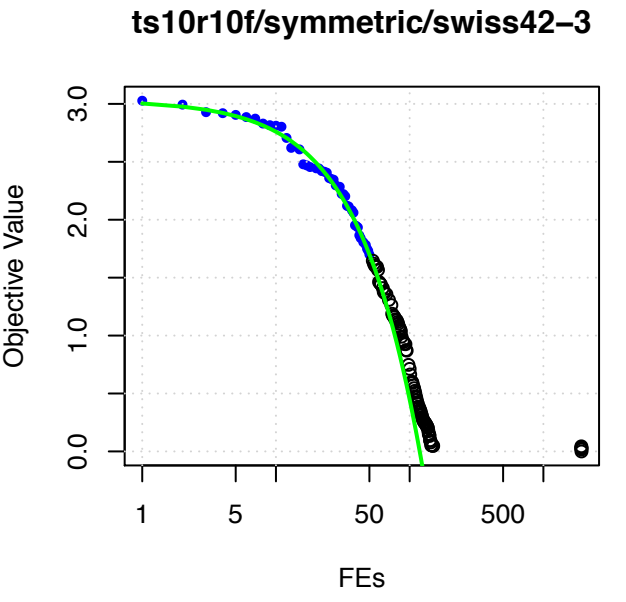
100
FEs


ts10r10f/symmetric/swiss42−3
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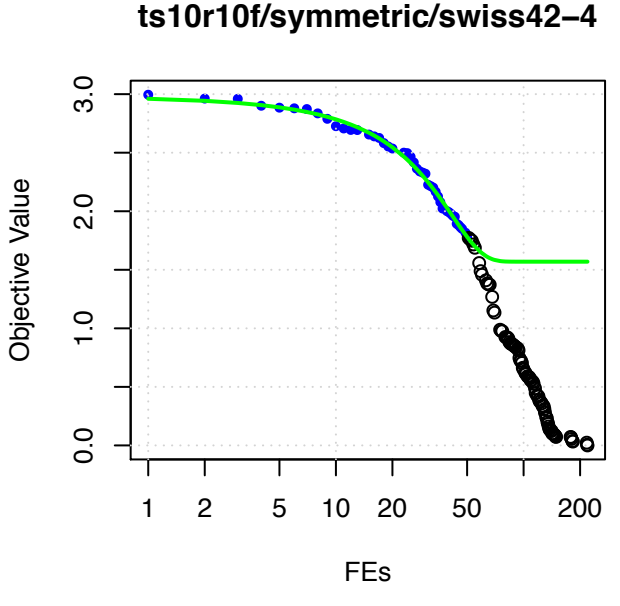
FEs


ts10r10f/symmetric/swiss42−4
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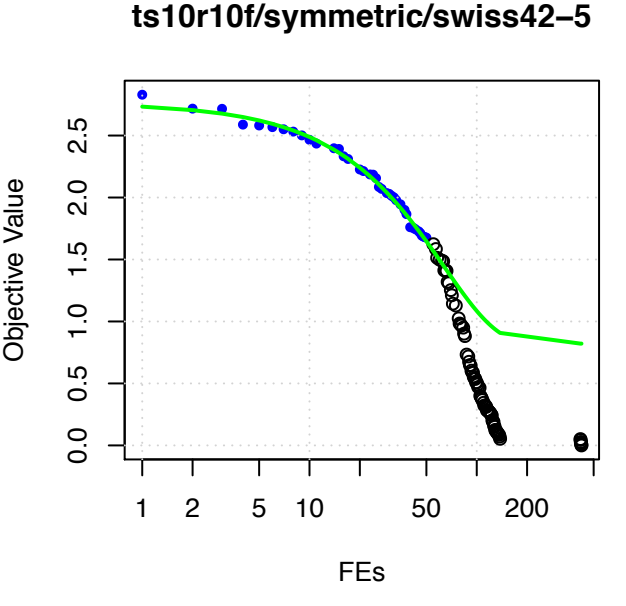
200
FEs


ts10r10f/symmetric/swiss42−5
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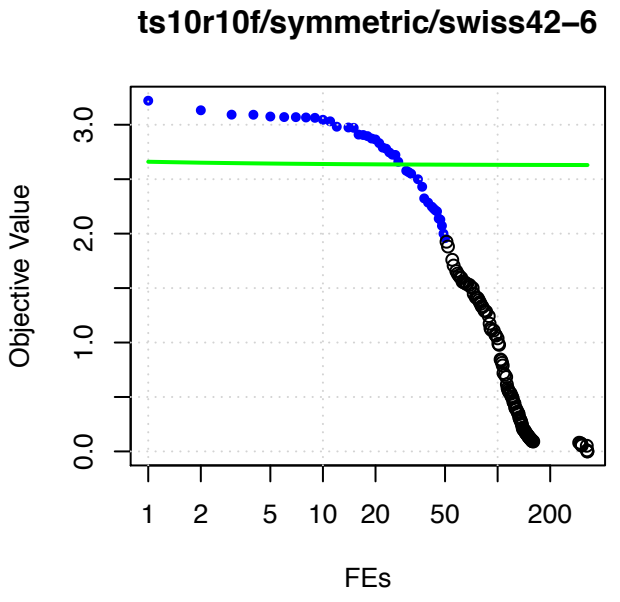
200
FEs


ts10r10f/symmetric/swiss42−6
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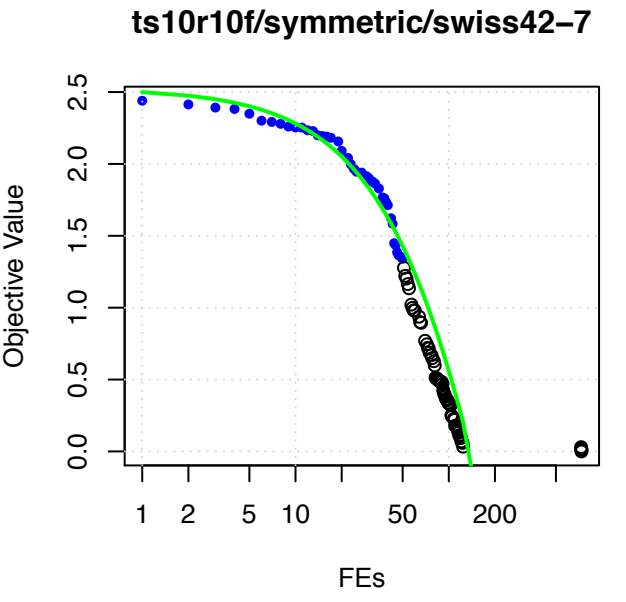
FEs


ts10r10f/symmetric/swiss42−7
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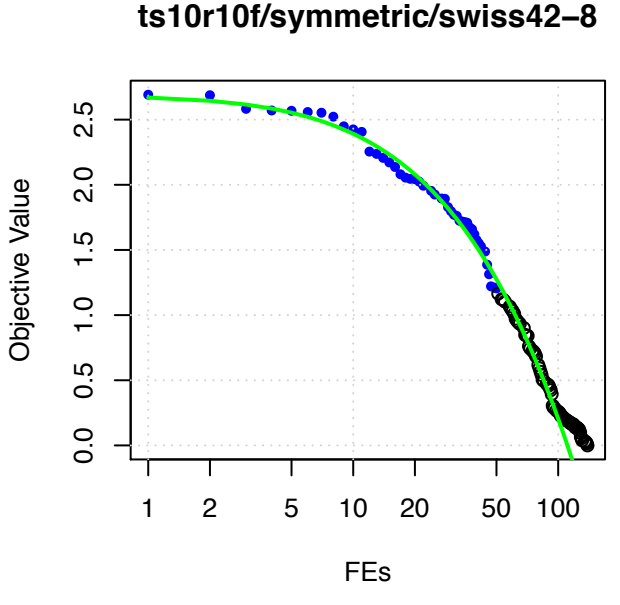
1.5
2.0
2.5
1
2
5
10
50
200
FEs


ts10r10f/symmetric/swiss42−8
Objective Value
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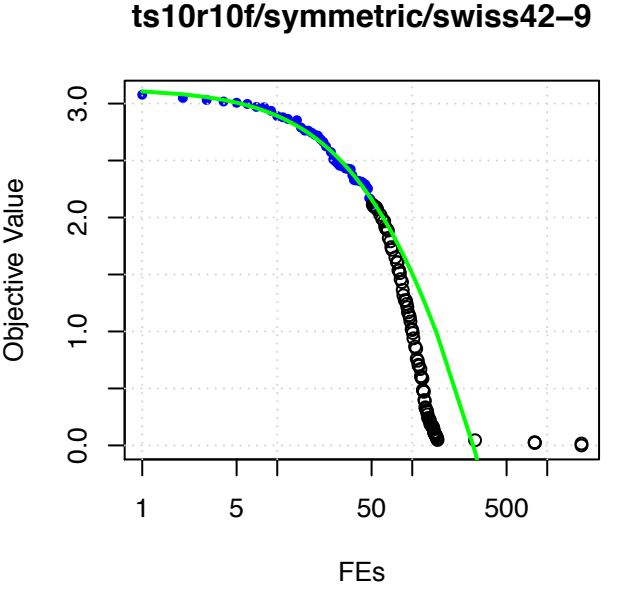
0.5
1.0
1.5
2.0
2.5
1
2
5
10
20
50
100
FEs


ts10r10f/symmetric/swiss42−9
Objective Value
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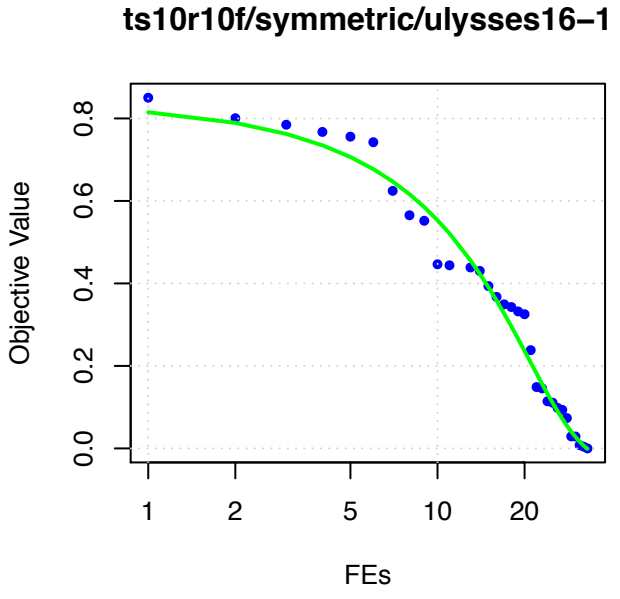
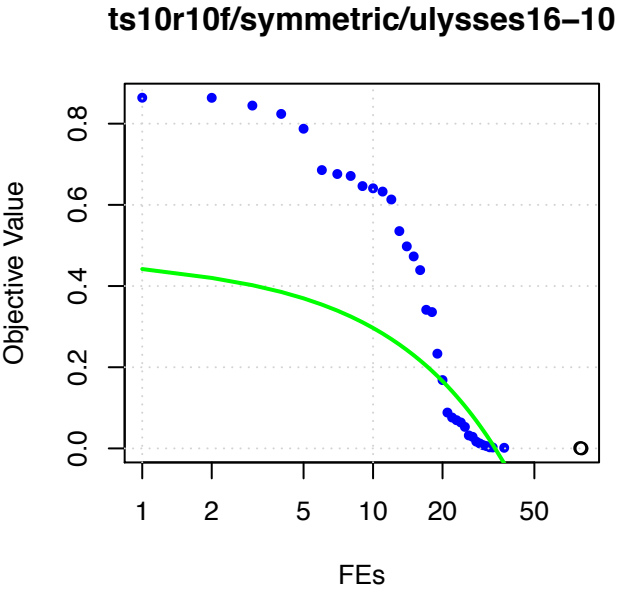
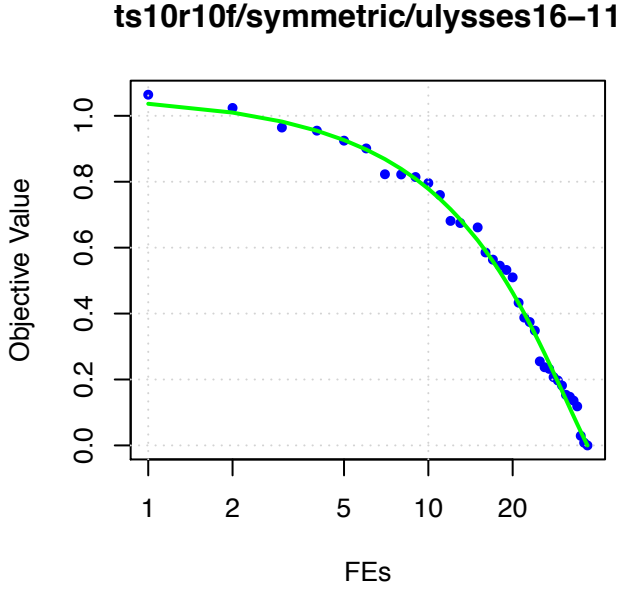
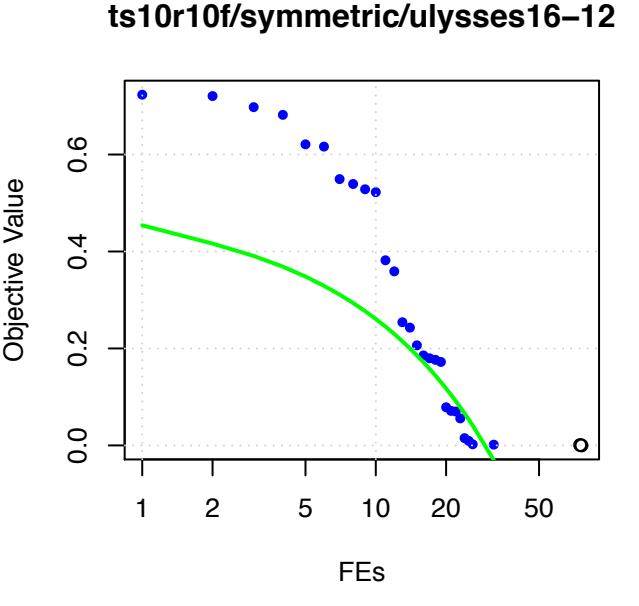
1.0
2.0
3.0
1
5
50
500
FEs


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


ts10r10f/symmetric/ulysses16−10
Objective Value
0.0
0.2
0.4
0.6
0.8
1
2
5
10
20
50
FEs


ts10r10f/symmetric/ulysses16−11
Objective Value
0.0
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
FEs


ts10r10f/symmetric/ulysses16−12
Objective Value
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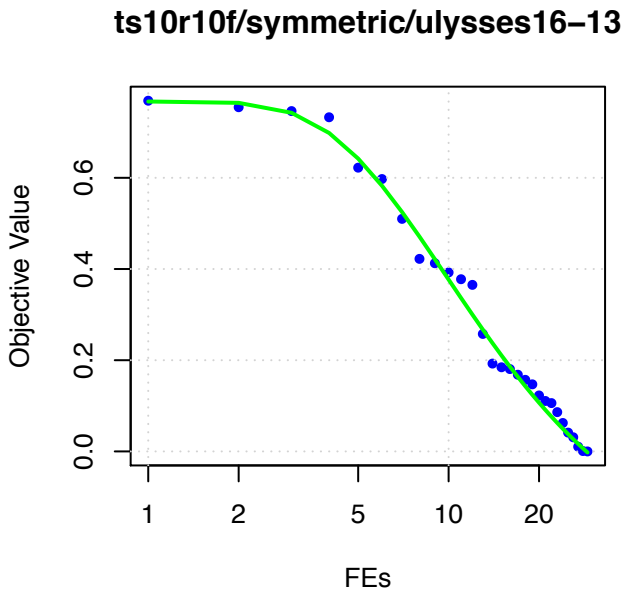
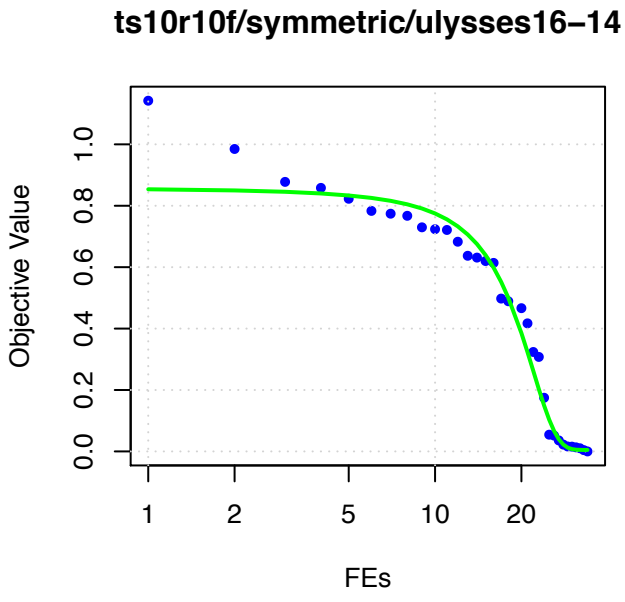
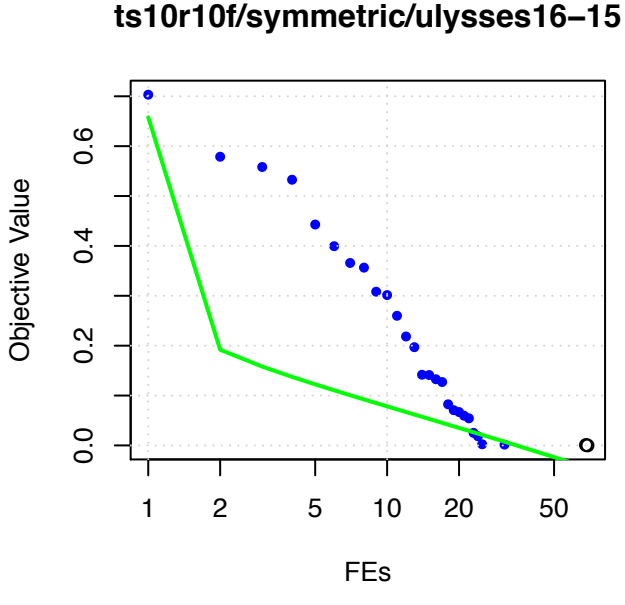
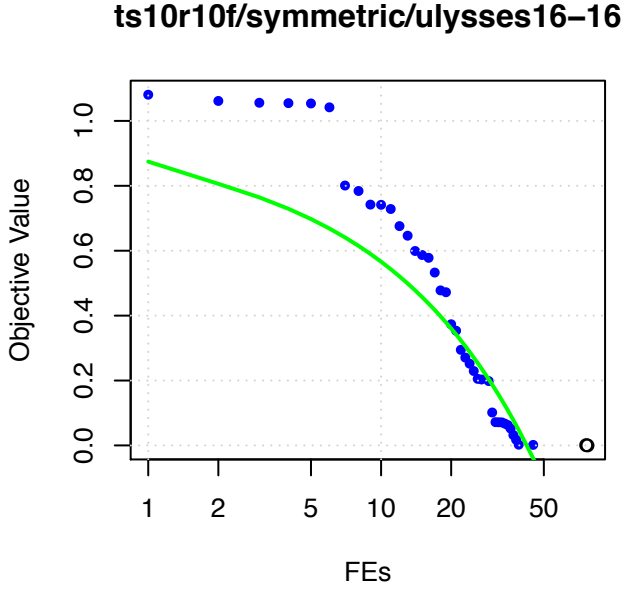
0.2
0.4
0.6
1
2
5
10
20
50
FEs


ts10r10f/symmetric/ulysses16−13
Objective Value
0.0
0.2
0.4
0.6
1
2
5
10
20
FEs


ts10r10f/symmetric/ulysses16−14
Objective Value
0.0
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
FEs


ts10r10f/symmetric/ulysses16−15
Objective Value
0.0
0.2
0.4
0.6
1
2
5
10
20
50
FEs


ts10r10f/symmetric/ulysses16−16
Objective Value
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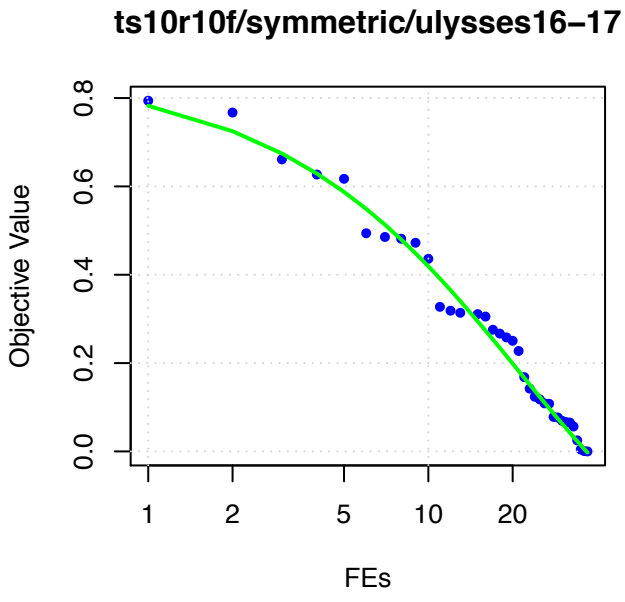
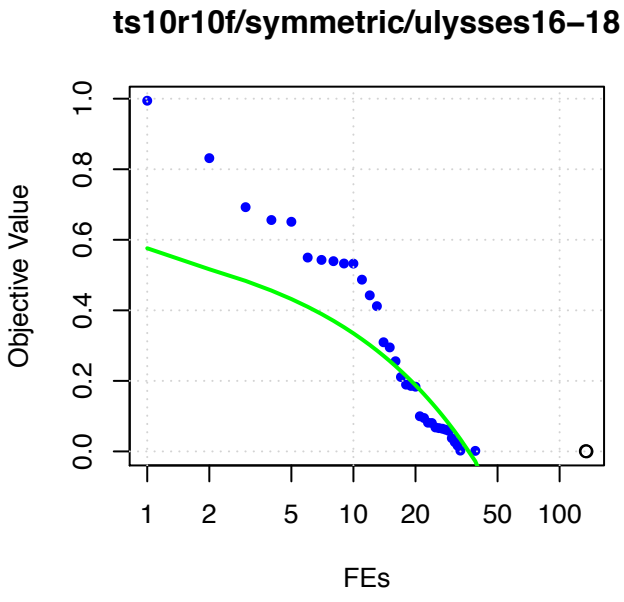
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
50
FEs


ts10r10f/symmetric/ulysses16−17
Objective Value
0.0
0.2
0.4
0.6
0.8
1
2
5
10
20
FEs


ts10r10f/symmetric/ulysses16−18
Objective Value
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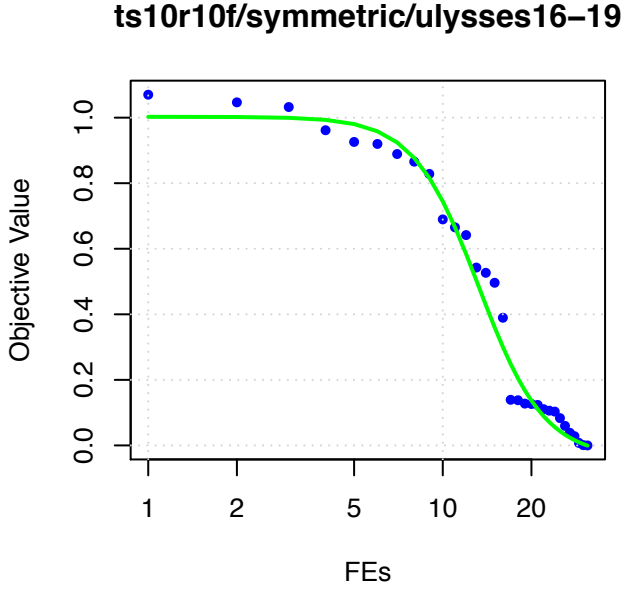
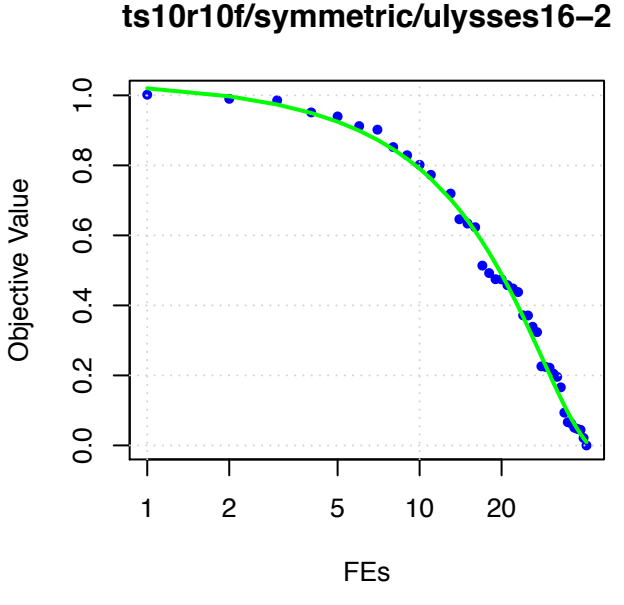
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
50
100
FEs


ts10r10f/symmetric/ulysses16−19
Objective Value
0.0
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
FEs


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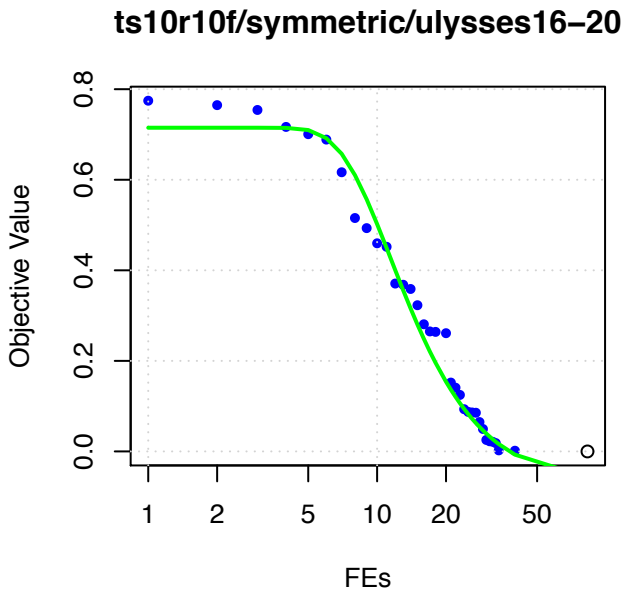
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
FEs


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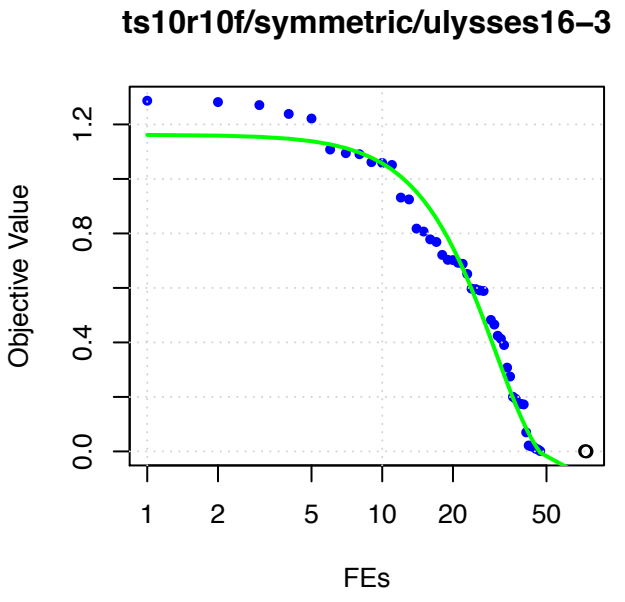
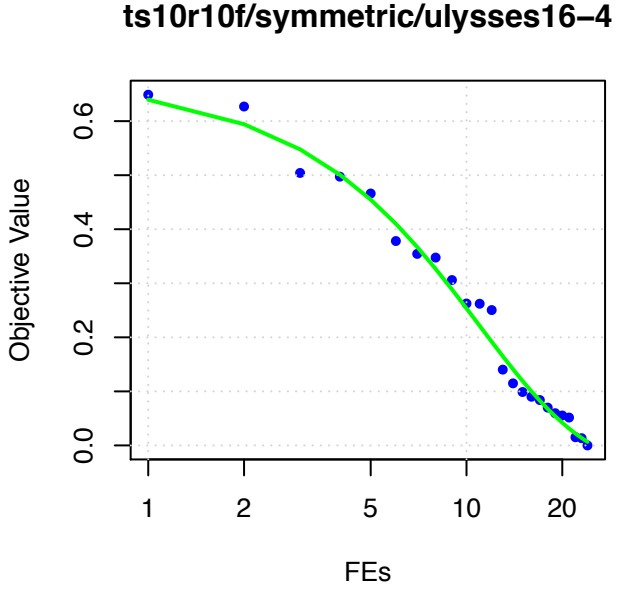
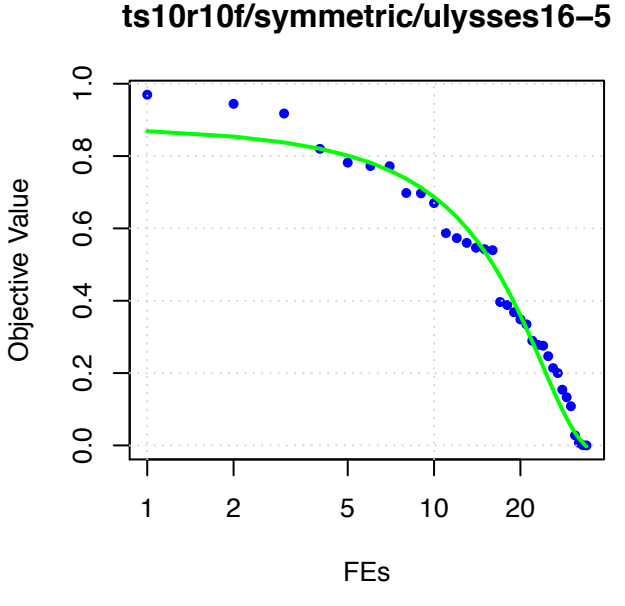
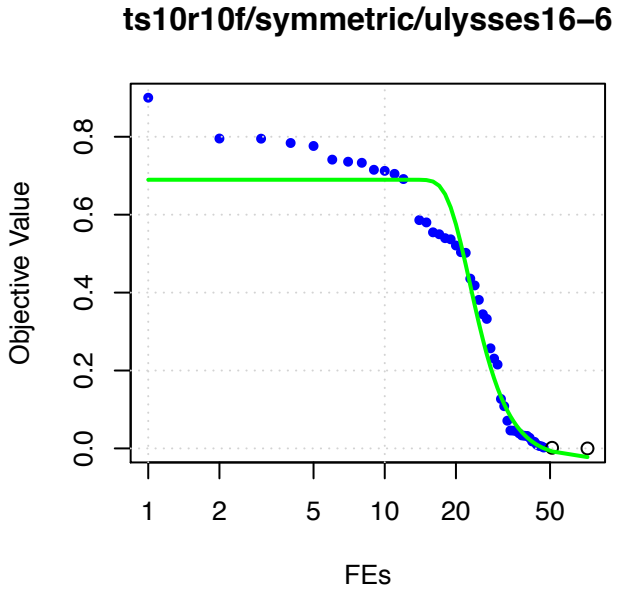
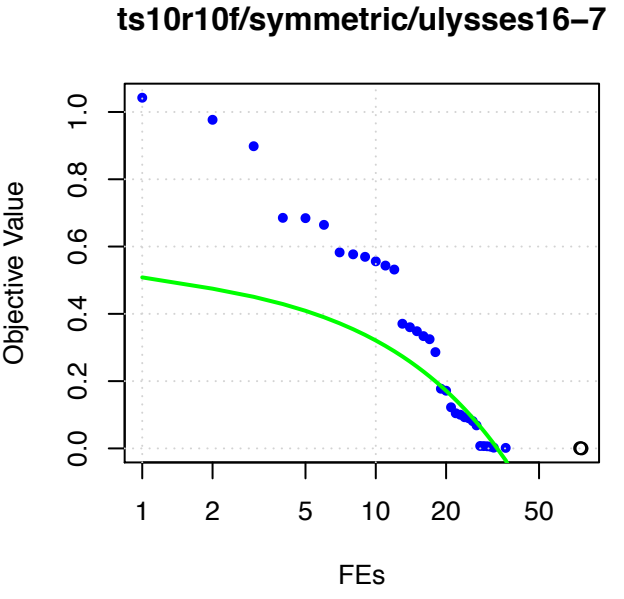
0.2
0.4
0.6
0.8
1
2
5
10
20
50
FEs


ts10r10f/symmetric/ulysses16−3
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts10r10f/symmetric/ulysses16−4
Objective Value
0.0
0.2
0.4
0.6
1
2
5
10
20
FEs


ts10r10f/symmetric/ulysses16−5
Objective Value
0.0
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
FEs


ts10r10f/symmetric/ulysses16−6
Objective Value
0.0
0.2
0.4
0.6
0.8
1
2
5
10
20
50
FEs


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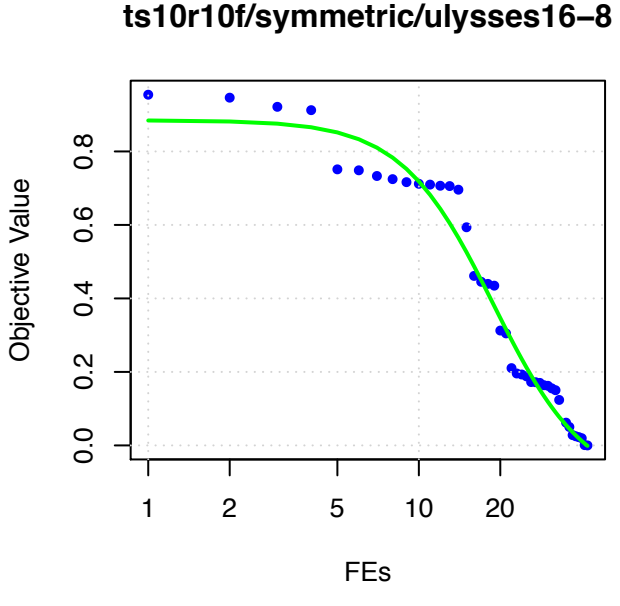
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
50
FEs


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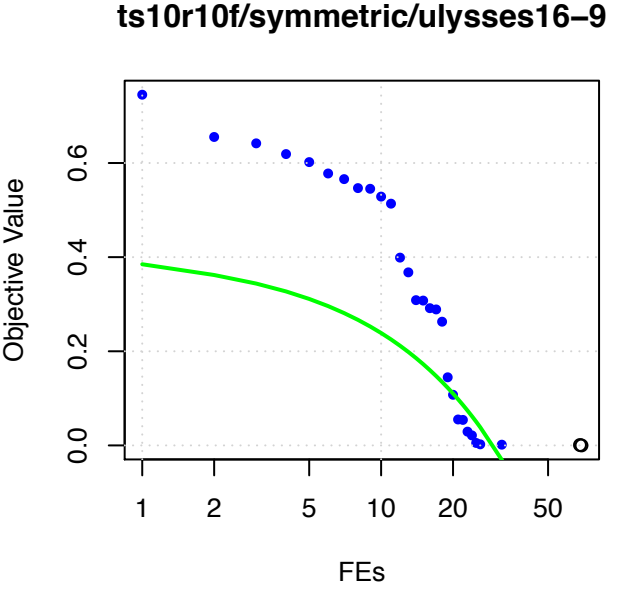
0.2
0.4
0.6
0.8
1
2
5
10
20
FEs


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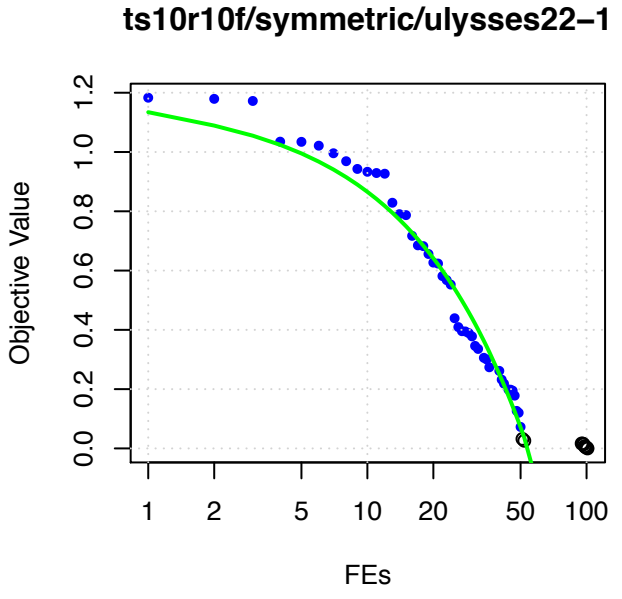
0.2
0.4
0.6
1
2
5
10
20
50
FEs


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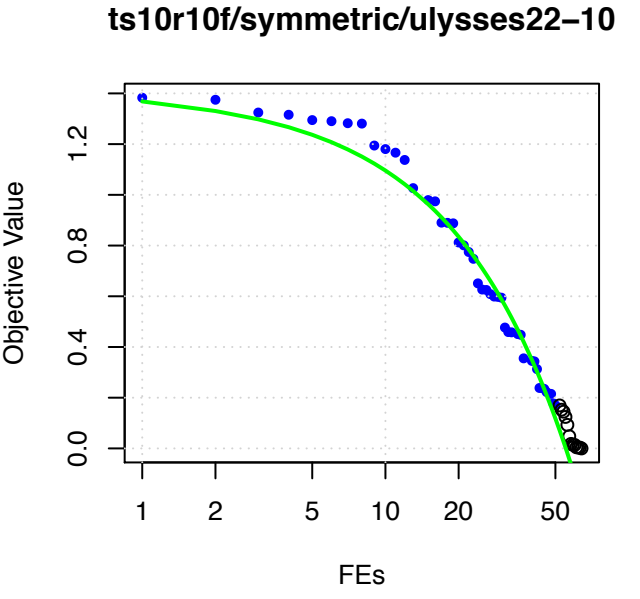
0.2
0.4
0.6
0.8
1.0
1.2
1
2
5
10
20
50
100
FEs


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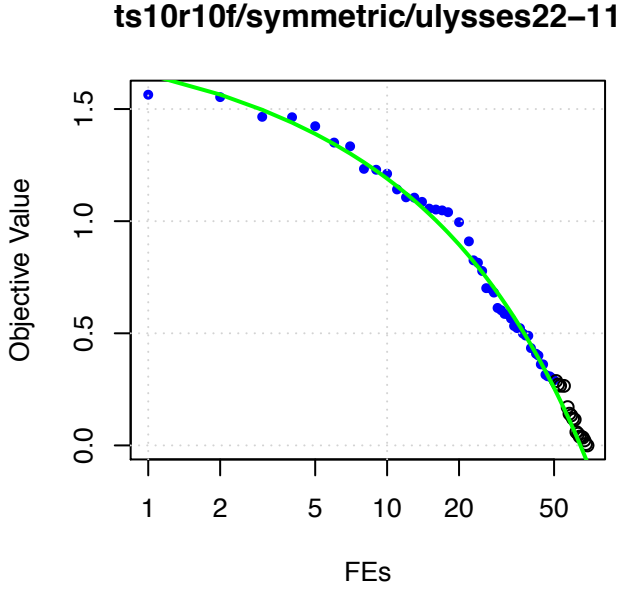
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts10r10f/symmetric/ulysses22−11
Objective Value
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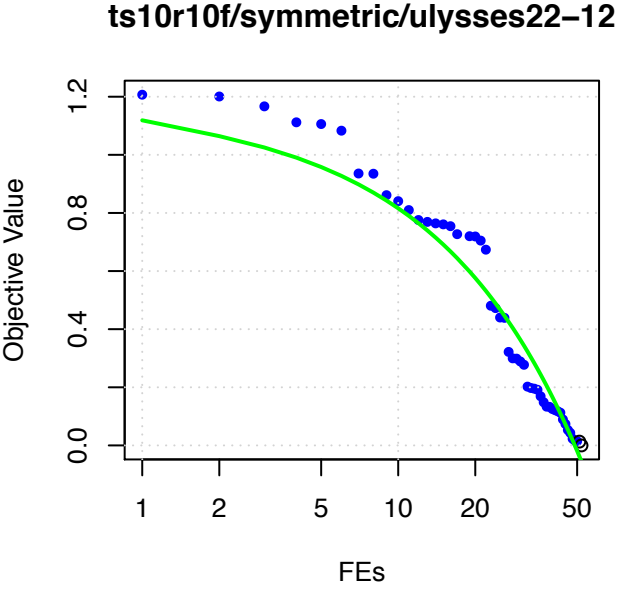
1.0
1.5
1
2
5
10
20
50
FEs


ts10r10f/symmetric/ulysses22−12
Objective Value
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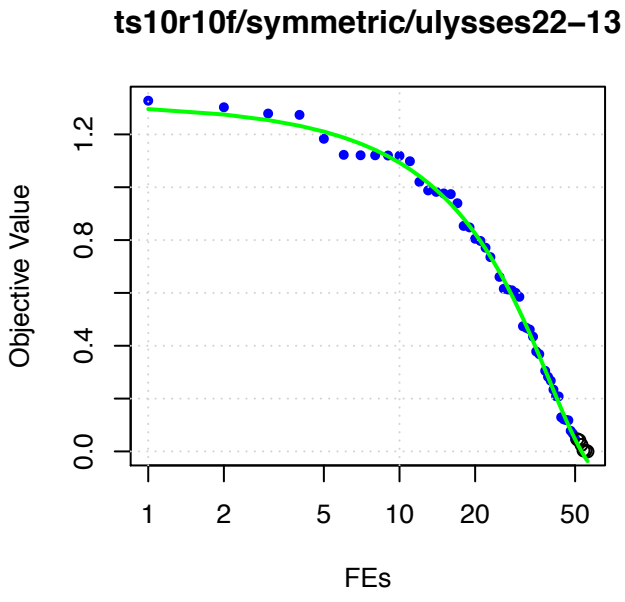
0.8
1.2
1
2
5
10
20
50
FEs


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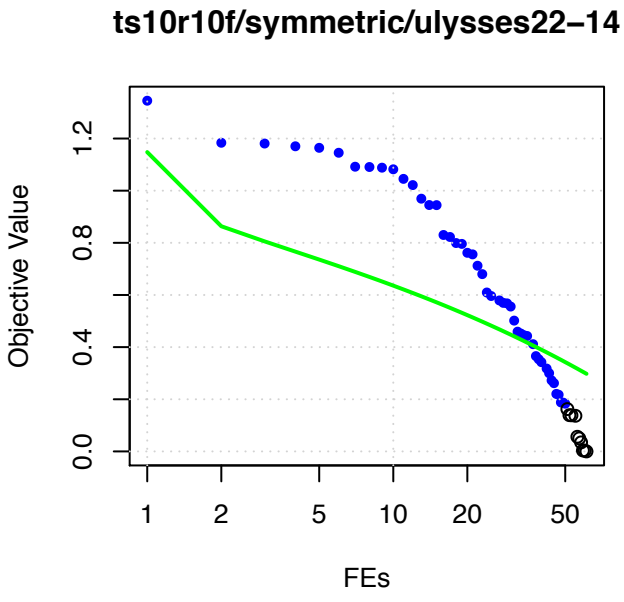
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts10r10f/symmetric/ulysses22−14
Objective Value
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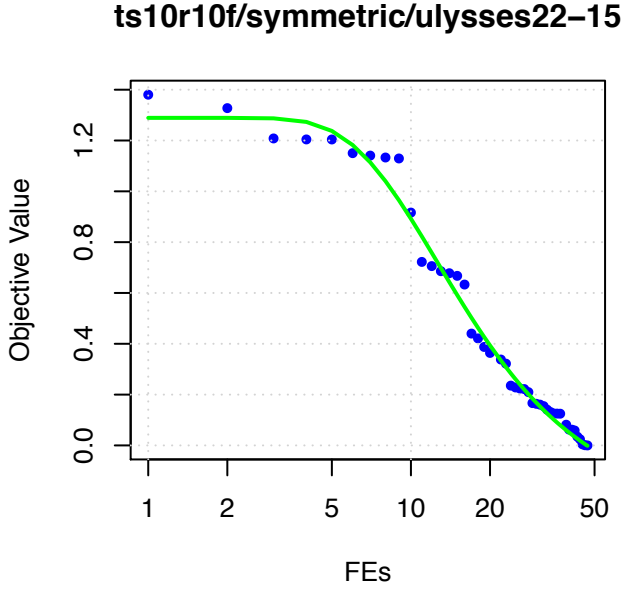
0.8
1.2
1
2
5
10
20
50
FEs


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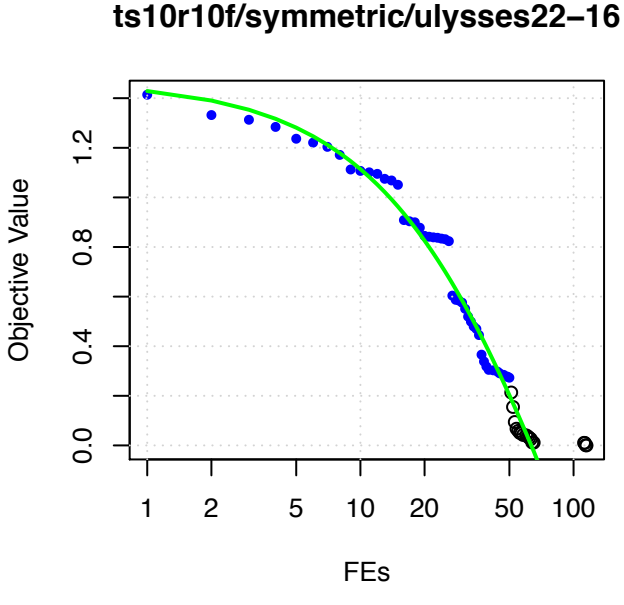
0.4
0.8
1.2
1
2
5
10
20
50
FEs


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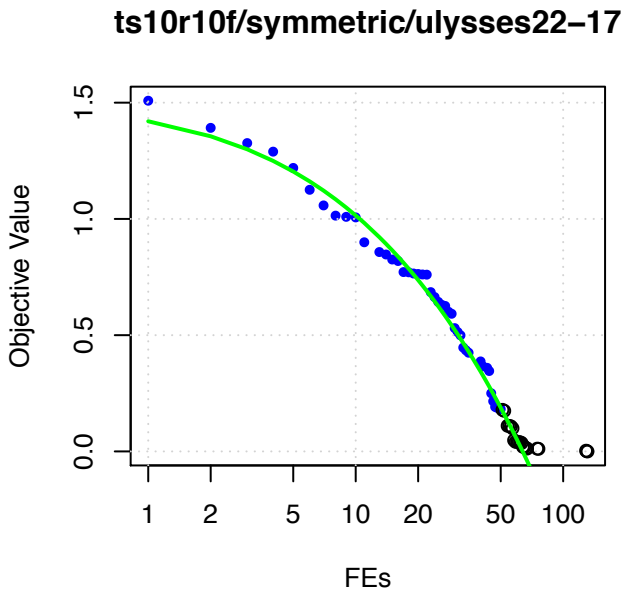
0.8
1.2
1
2
5
10
20
50
100
FEs


ts10r10f/symmetric/ulysses22−17
Objective Value
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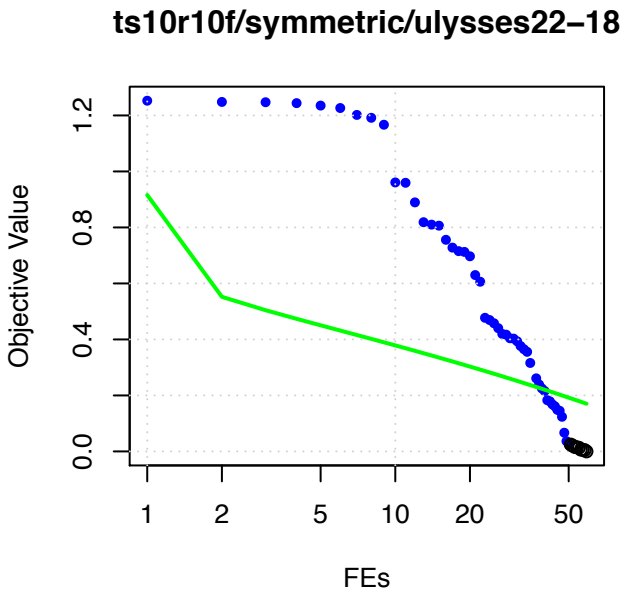
1.0
1.5
1
2
5
10
20
50
100
FEs


ts10r10f/symmetric/ulysses22−18
Objective Value
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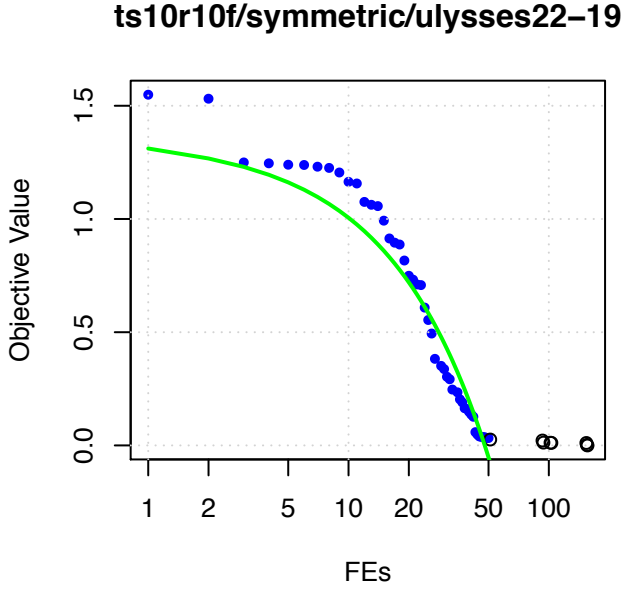
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts10r10f/symmetric/ulysses22−19
Objective Value
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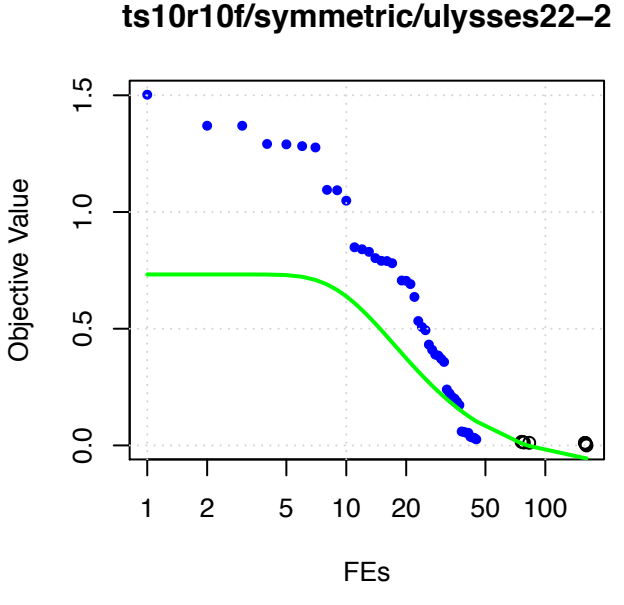
0.5
1.0
1.5
1
2
5
10
20
50
100
FEs


ts10r10f/symmetric/ulysses22−2
Objective Value
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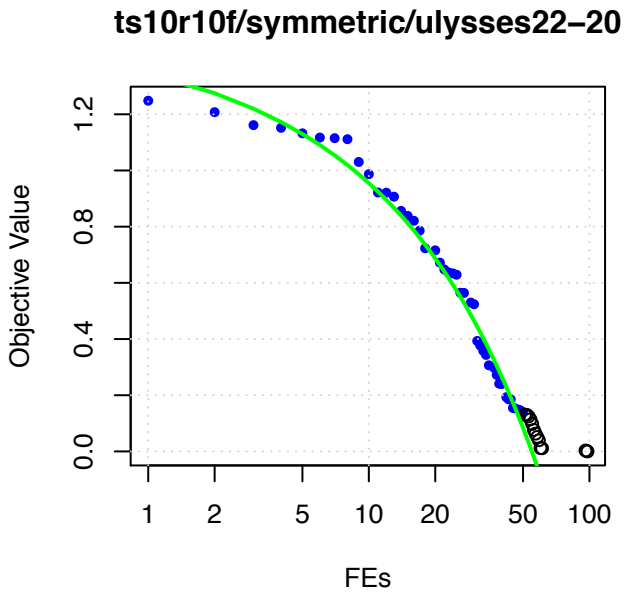
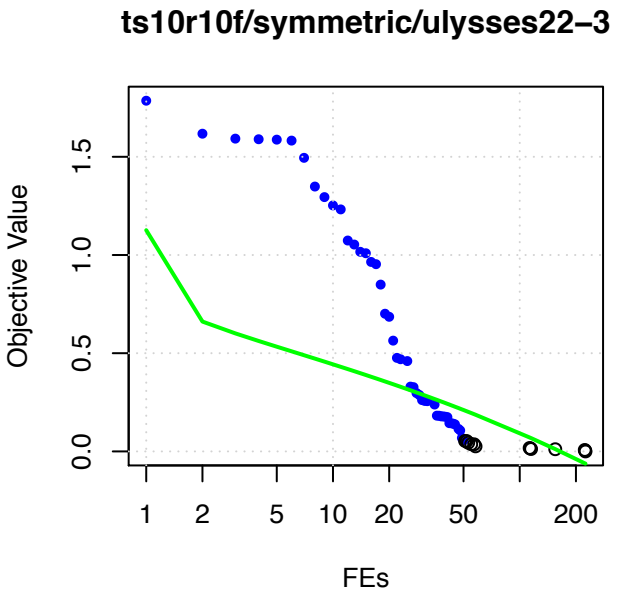
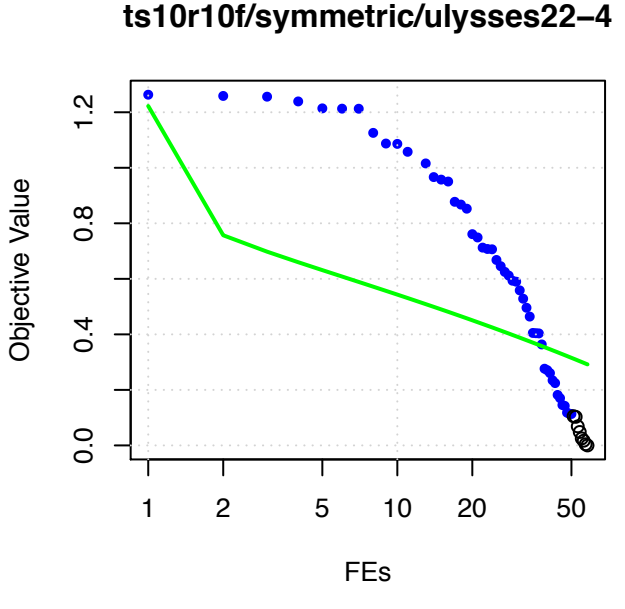
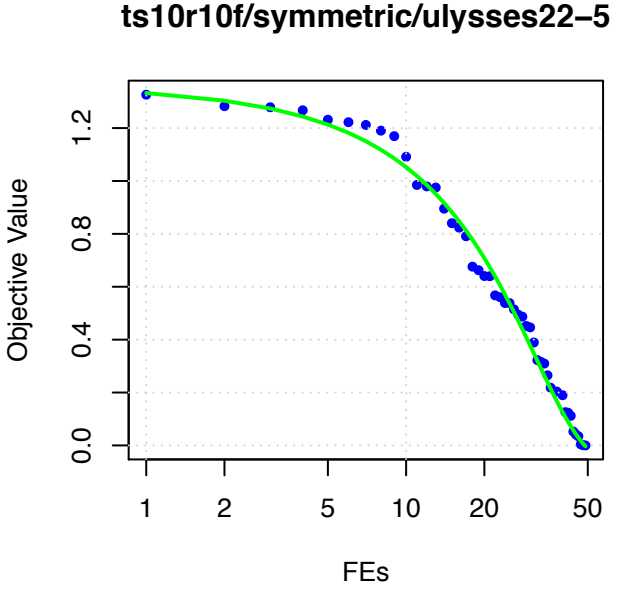
0.5
1.0
1.5
1
2
5
10
20
50
100
FEs


ts10r10f/symmetric/ulysses22−20
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
20
50
100
FEs


ts10r10f/symmetric/ulysses22−3
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
200
FEs


ts10r10f/symmetric/ulysses22−4
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
20
50
FEs


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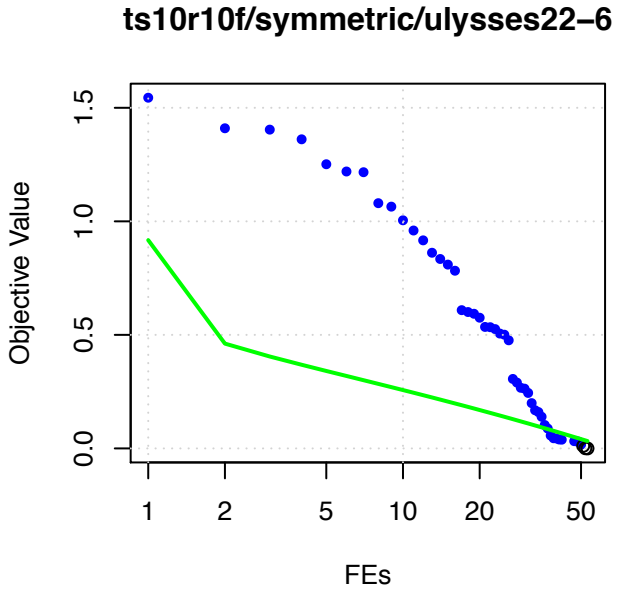
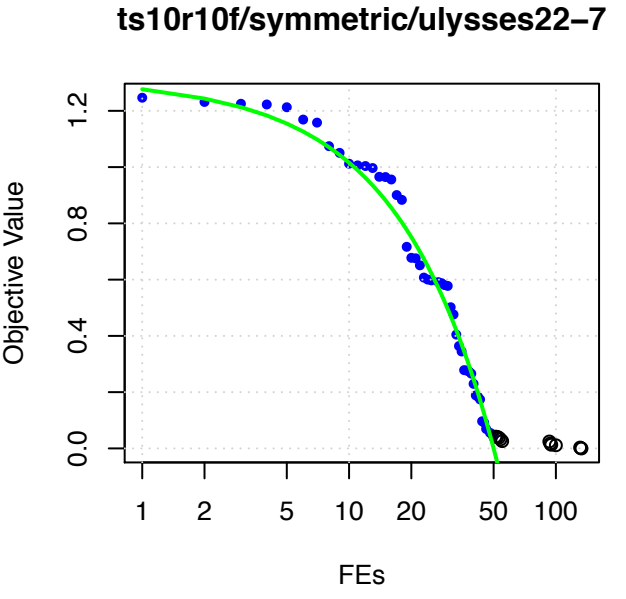
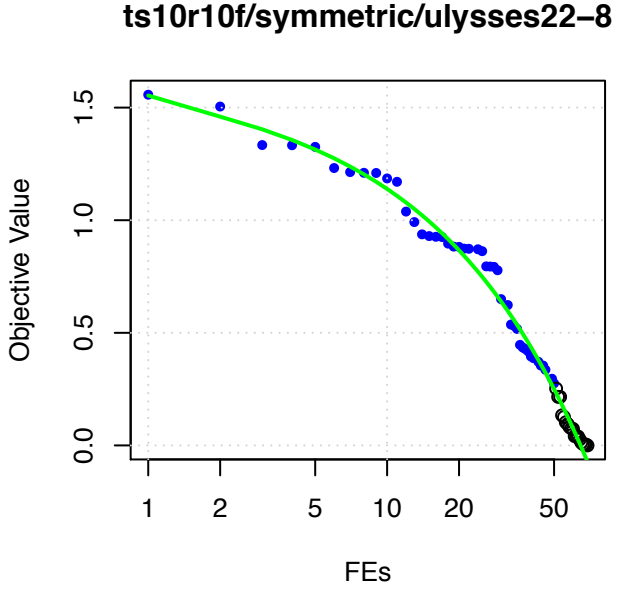
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts10r10f/symmetric/ulysses22−6
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts10r10f/symmetric/ulysses22−7
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
20
50
100
FEs


ts10r10f/symmetric/ulysses22−8
Objective Value
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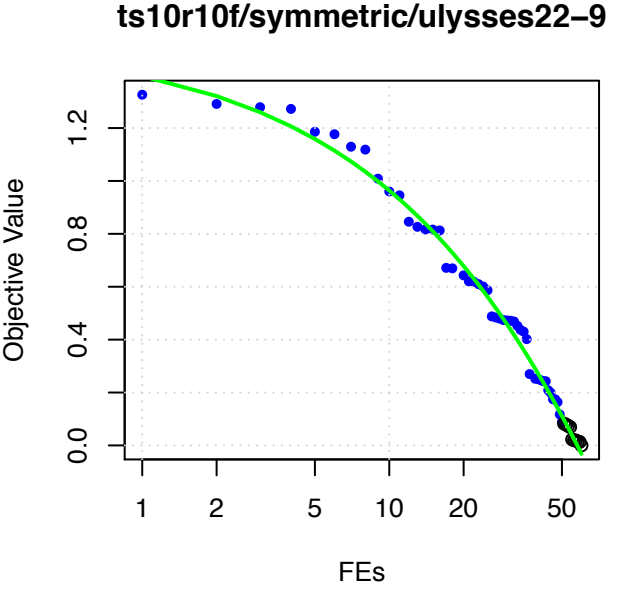
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts10r10f/symmetric/ulysses22−9
Objective Value
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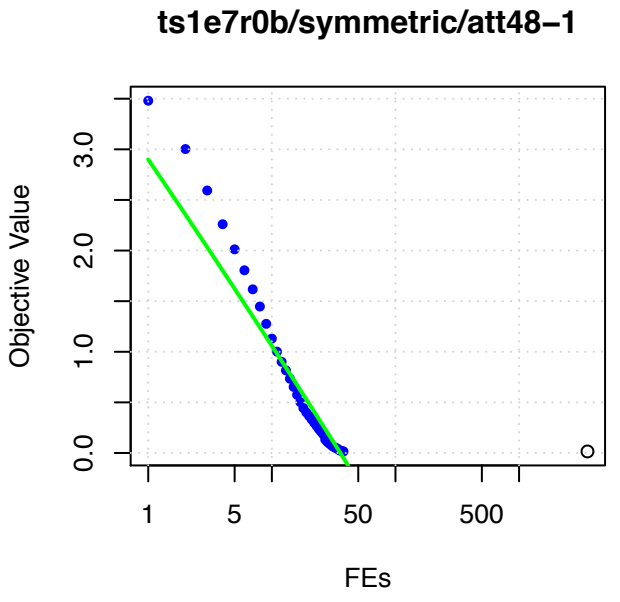
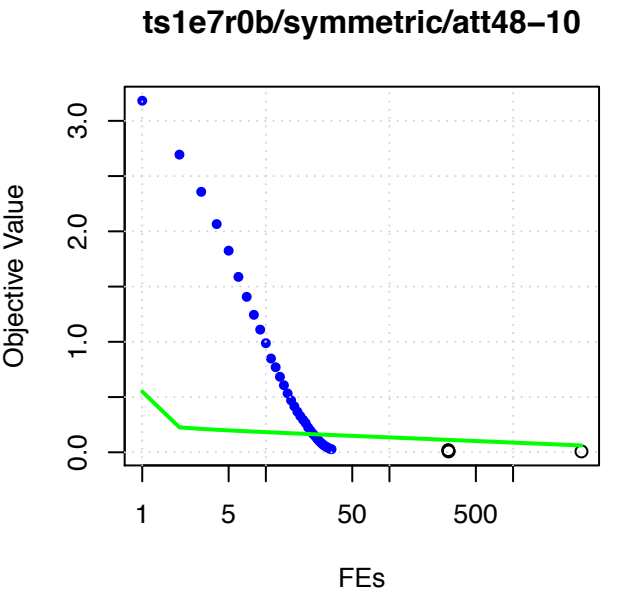
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/att48−1
Objective Value
0.0
1.0
2.0
3.0
1
5
50
500
FEs


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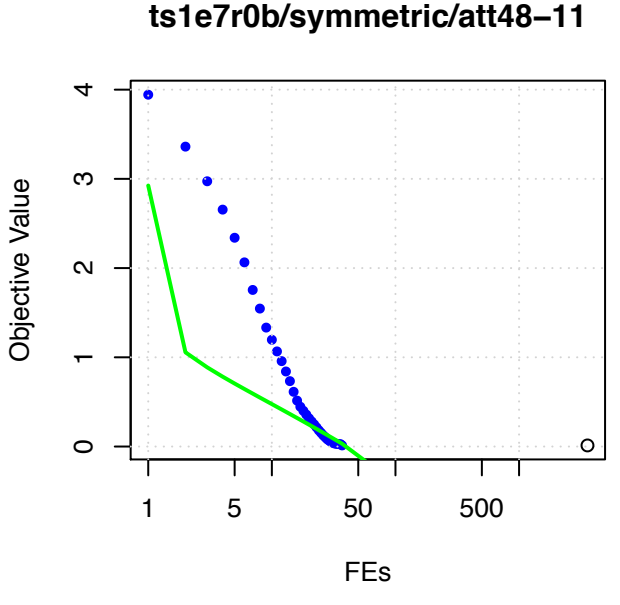
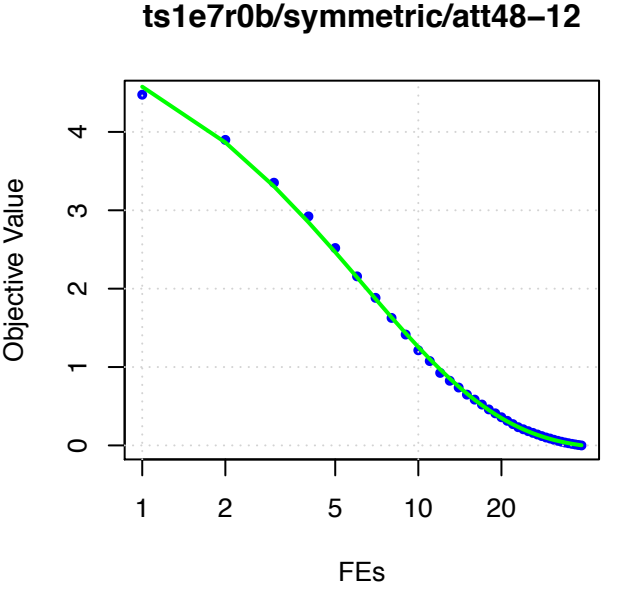
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/att48−11
Objective Value
0
1
2
3
4
1
5
50
500
FEs


ts1e7r0b/symmetric/att48−12
Objective Value
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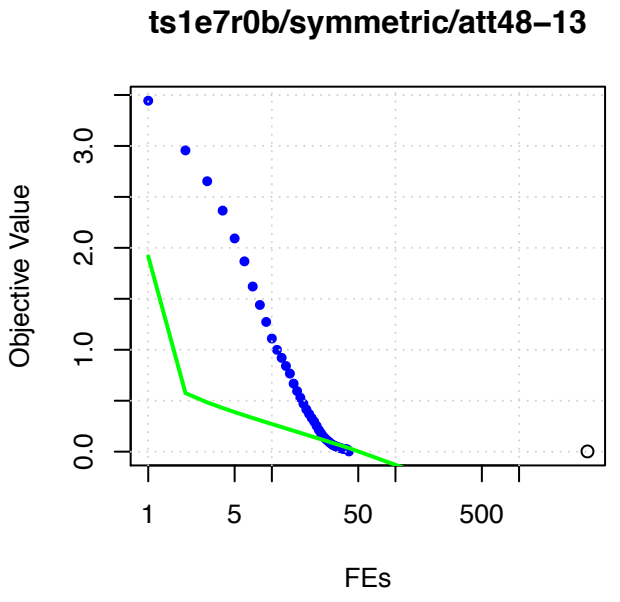
1
2
3
4
1
2
5
10
20
FEs


ts1e7r0b/symmetric/att48−13
Objective Value
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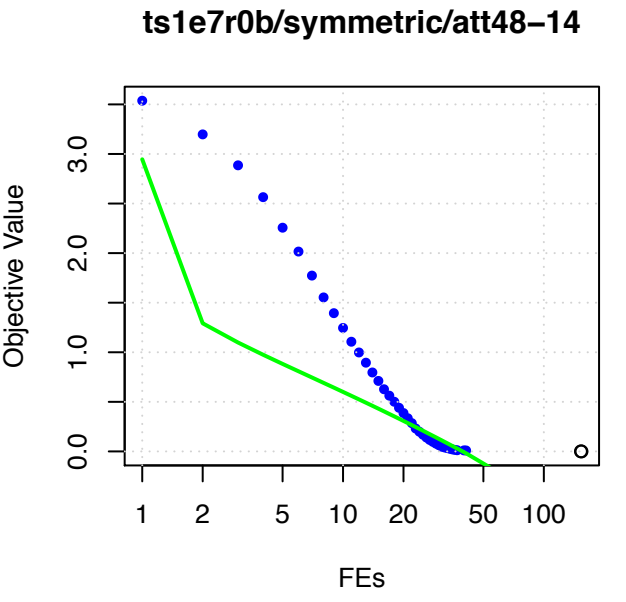
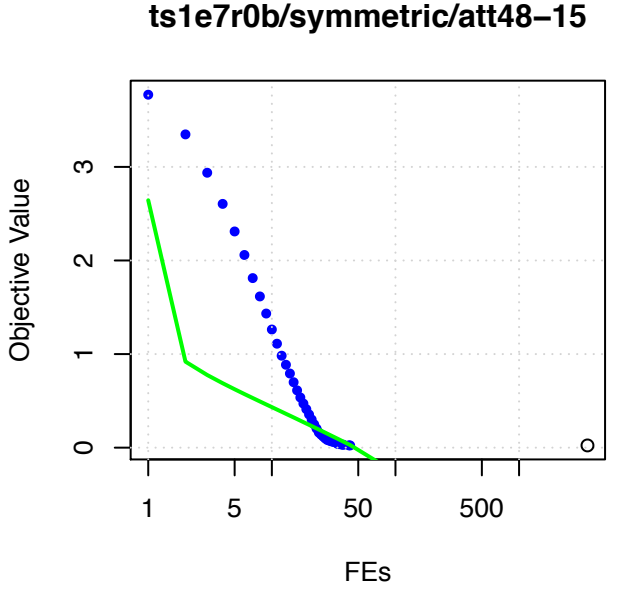
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/att48−14
Objective Value
0.0
1.0
2.0
3.0
1
2
5
10
20
50
100
FEs


ts1e7r0b/symmetric/att48−15
Objective Value
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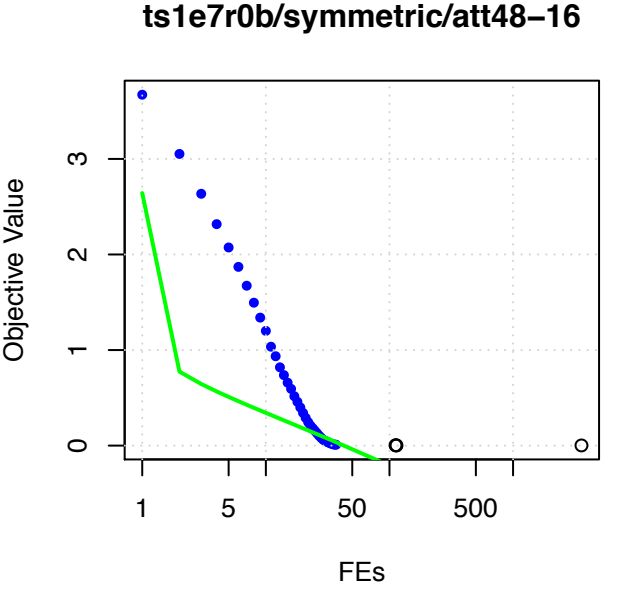
1
2
3
1
5
50
500
FEs


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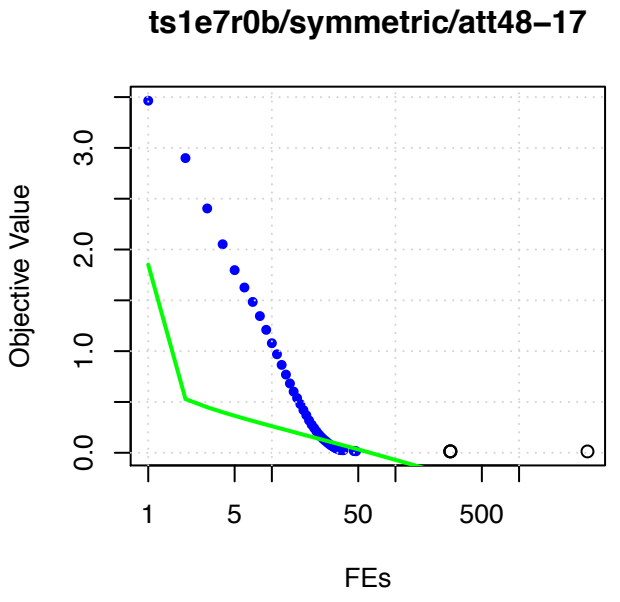
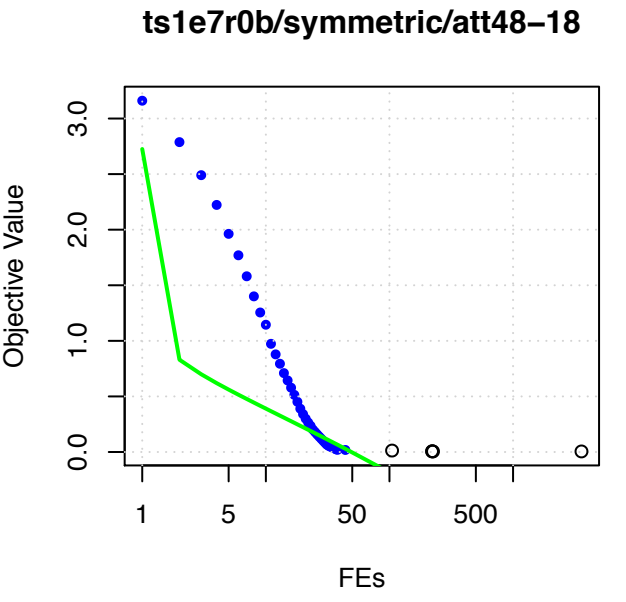
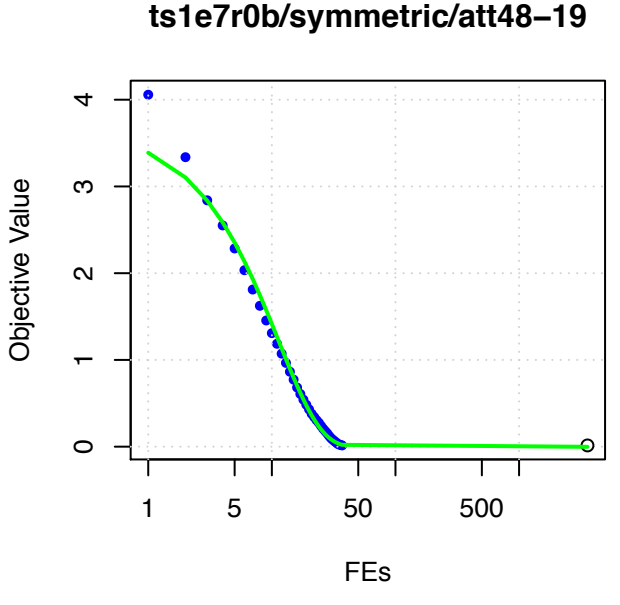
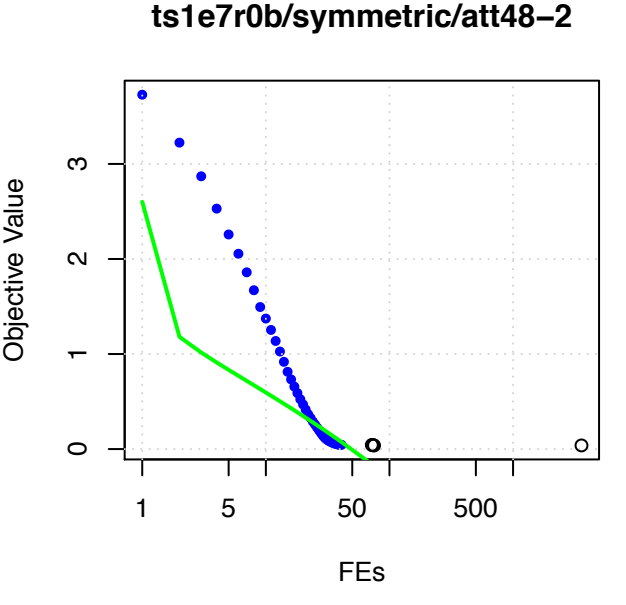
1
2
3
1
5
50
500
FEs


ts1e7r0b/symmetric/att48−17
Objective Value
0.0
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/att48−18
Objective Value
0.0
1.0
2.0
3.0
1
5
50
500
FEs


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


ts1e7r0b/symmetric/att48−2
Objective Value
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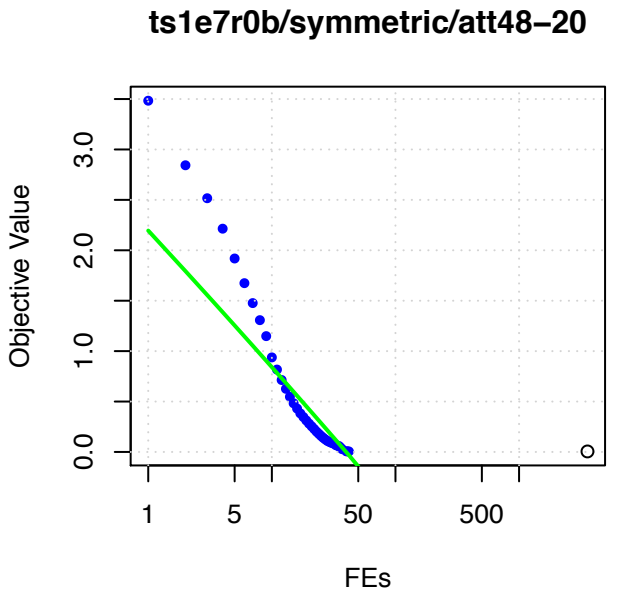
1
2
3
1
5
50
500
FEs


ts1e7r0b/symmetric/att48−20
Objective Value
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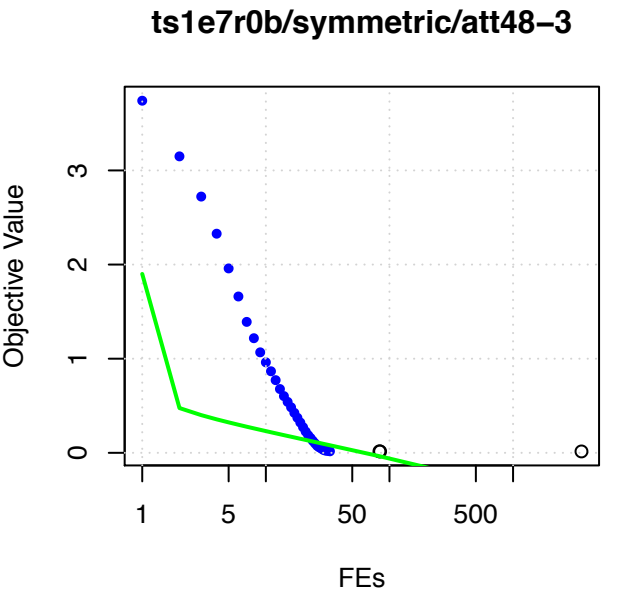
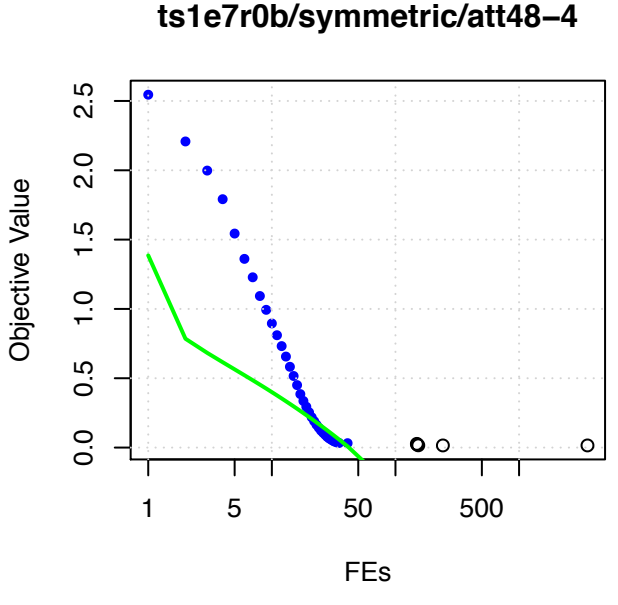
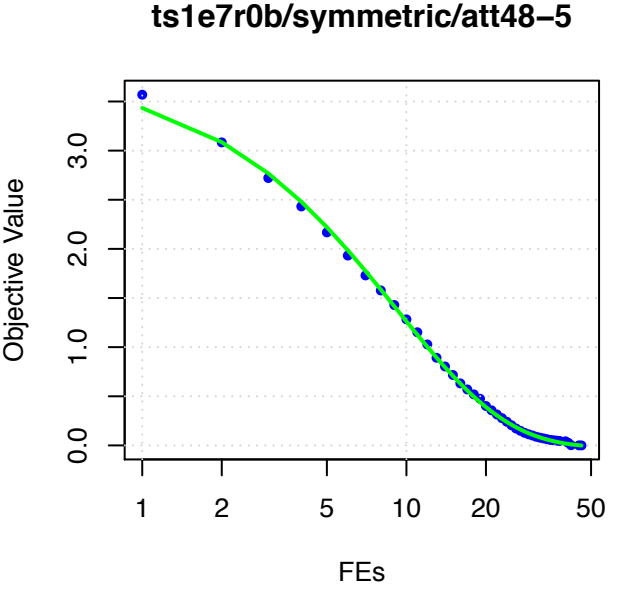
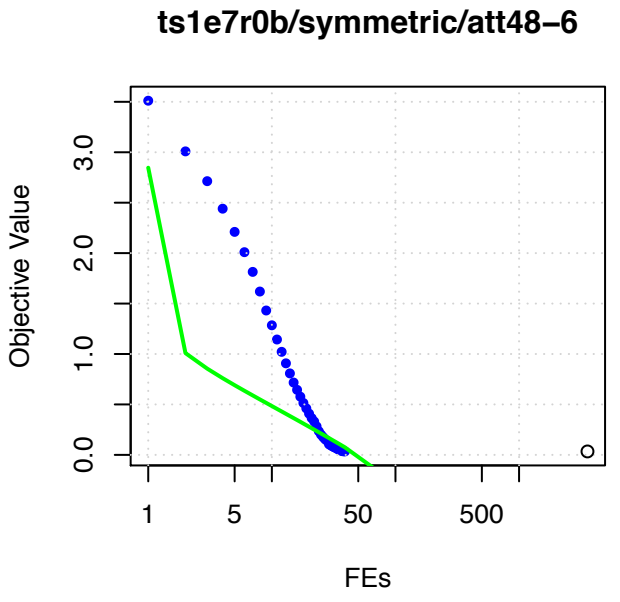
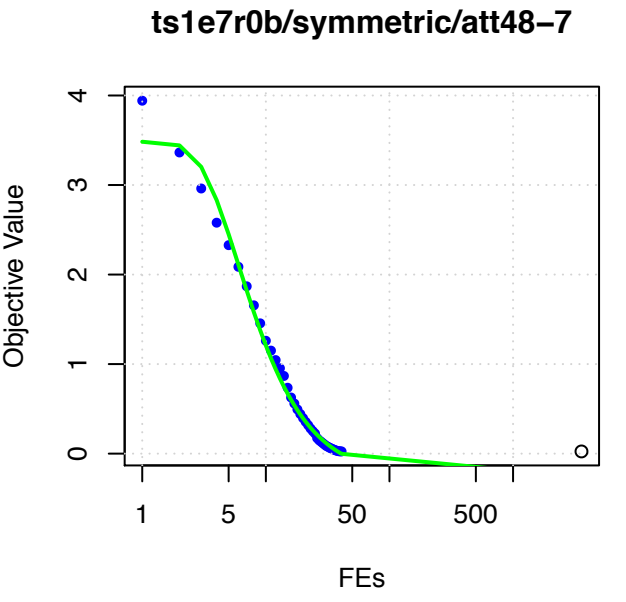
1.0
2.0
3.0
1
5
50
500
FEs

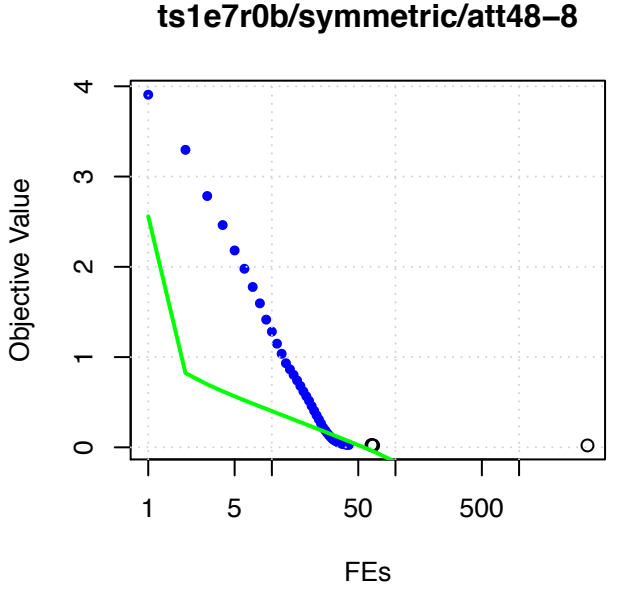

ts1e7r0b/symmetric/att48−3
Objective Value
0
1
2
3
1
5
50
500
FEs


ts1e7r0b/symmetric/att48−4
Objective Value
0.0
0.5
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts1e7r0b/symmetric/att48−5
Objective Value
0.0
1.0
2.0
3.0
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/att48−6
Objective Value
0.0
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/att48−7
Objective Value
0
1
2
3
4
1
5
50
500
FEs


ts1e7r0b/symmetric/att48−8
Objective Value
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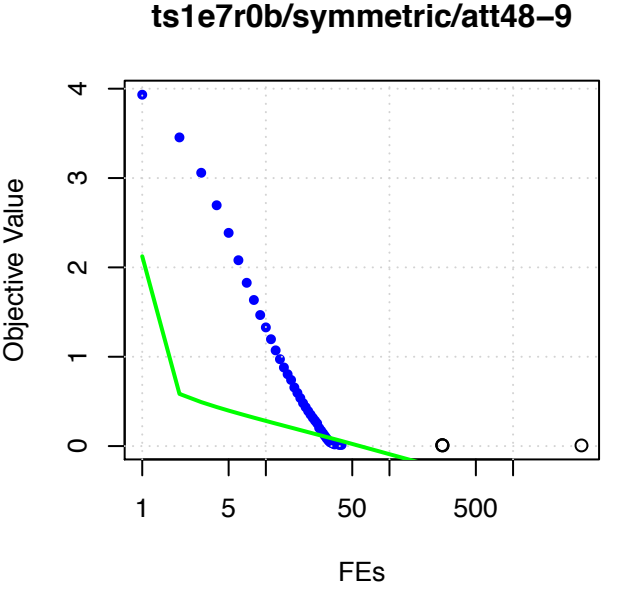
1
2
3
4
1
5
50
500
FEs


ts1e7r0b/symmetric/att48−9
Objective Value
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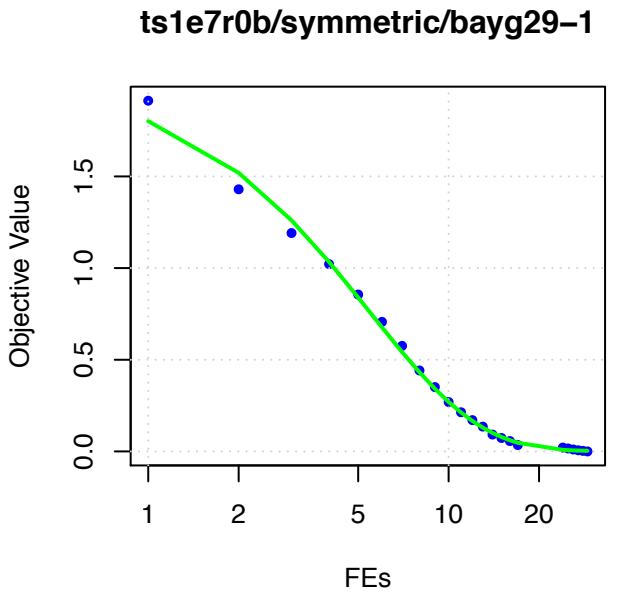
2
3
4
1
5
50
500
FEs


ts1e7r0b/symmetric/bayg29−1
Objective Value
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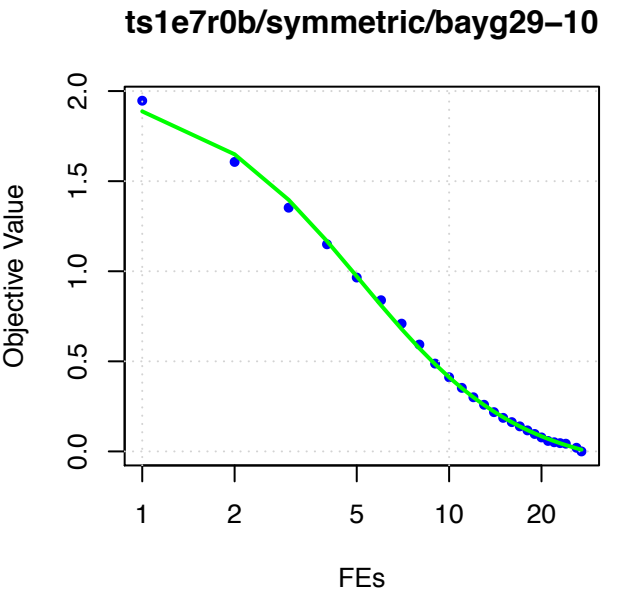
0.5
1.0
1.5
1
2
5
10
20
FEs


ts1e7r0b/symmetric/bayg29−10
Objective Value
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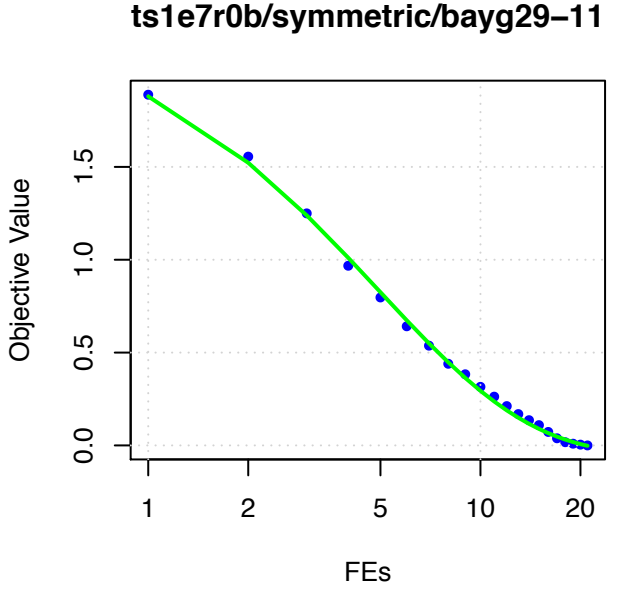
1.0
1.5
2.0
1
2
5
10
20
FEs


ts1e7r0b/symmetric/bayg29−11
Objective Value
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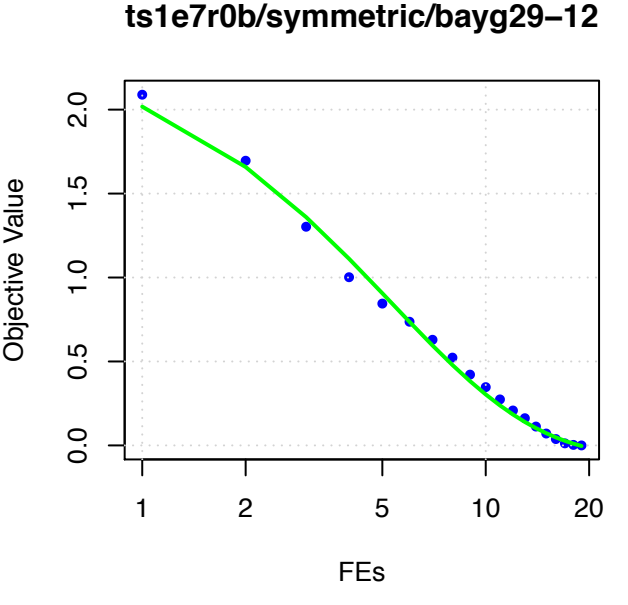
1.0
1.5
1
2
5
10
20
FEs


ts1e7r0b/symmetric/bayg29−12
Objective Value
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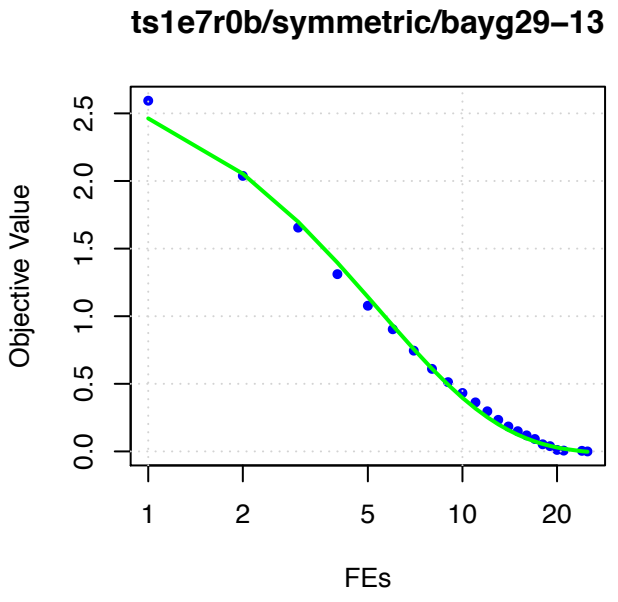
1.0
1.5
2.0
1
2
5
10
20
FEs


ts1e7r0b/symmetric/bayg29−13
Objective Value
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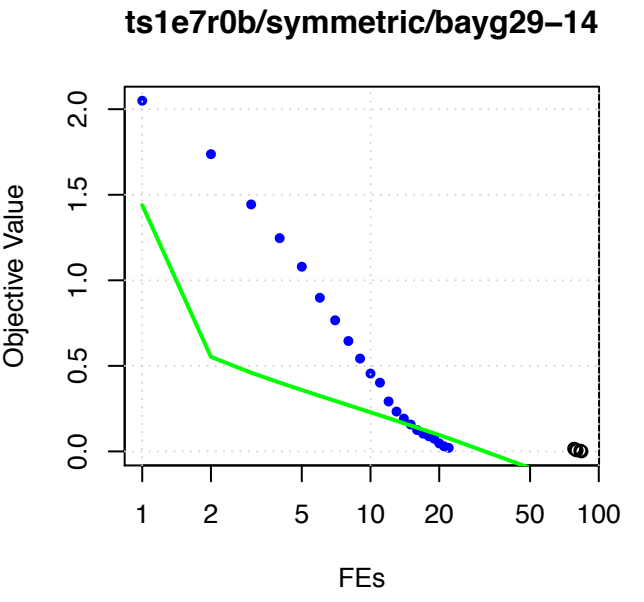
1.0
1.5
2.0
2.5
1
2
5
10
20
FEs


ts1e7r0b/symmetric/bayg29−14
Objective Value
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1.0
1.5
2.0
1
2
5
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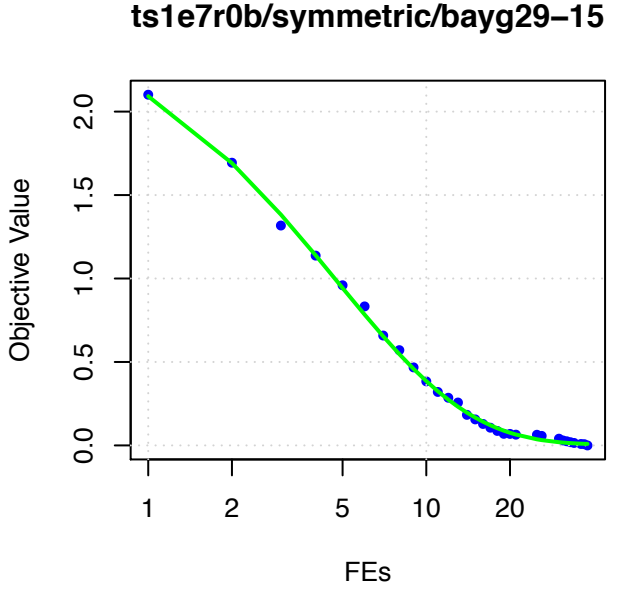
20
50
100
FEs


ts1e7r0b/symmetric/bayg29−15
Objective Value
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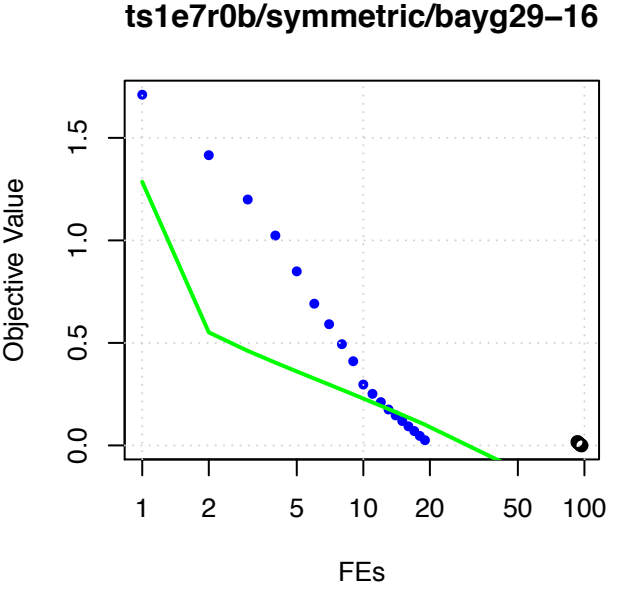
1.0
1.5
2.0
1
2
5
10
20
FEs


ts1e7r0b/symmetric/bayg29−16
Objective Value
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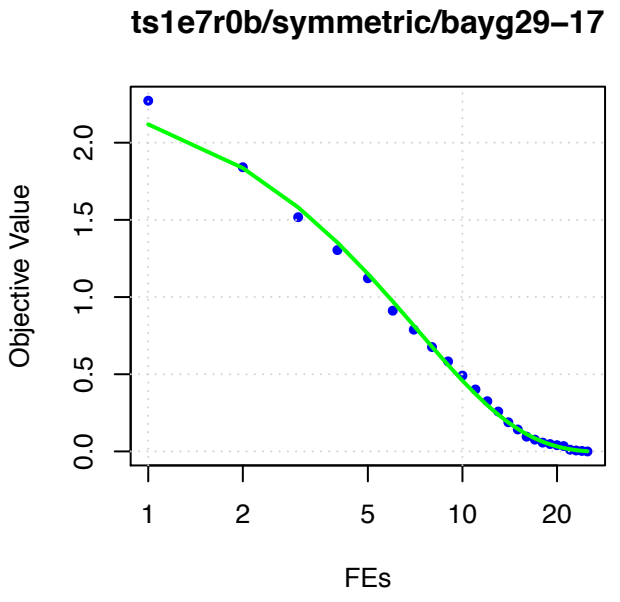
1.0
1.5
1
2
5
10
20
50
100
FEs


ts1e7r0b/symmetric/bayg29−17
Objective Value
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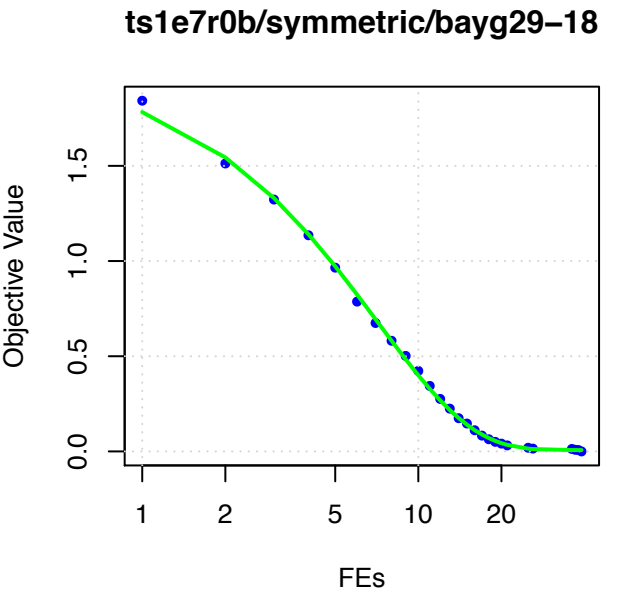
1.0
1.5
2.0
1
2
5
10
20
FEs


ts1e7r0b/symmetric/bayg29−18
Objective Value
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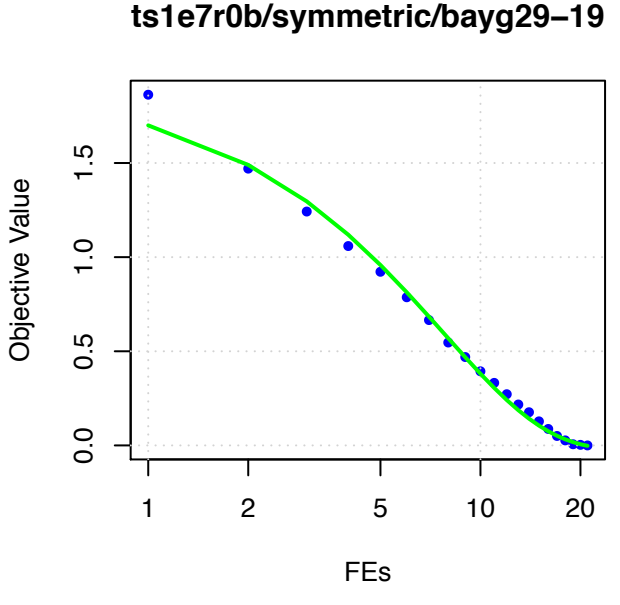
1.0
1.5
1
2
5
10
20
FEs


ts1e7r0b/symmetric/bayg29−19
Objective Value
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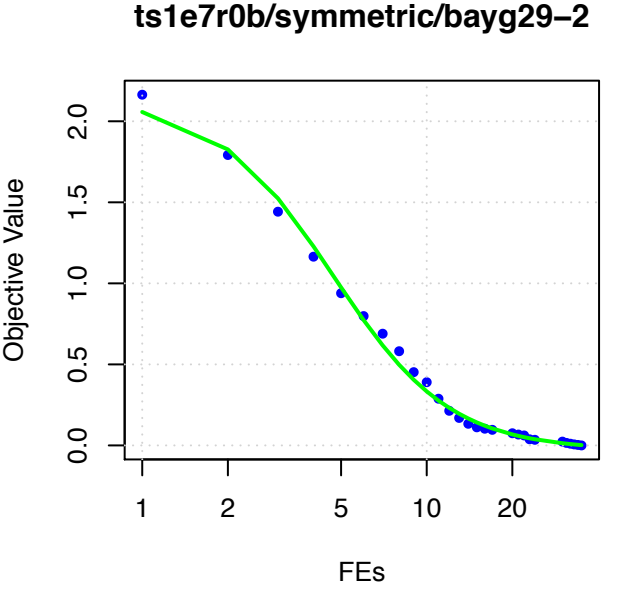
0.5
1.0
1.5
1
2
5
10
20
FEs


ts1e7r0b/symmetric/bayg29−2
Objective Value
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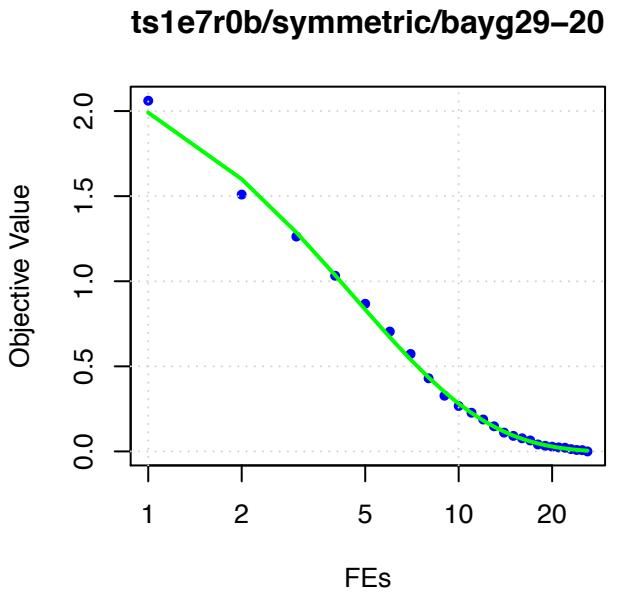
1.0
1.5
2.0
1
2
5
10
20
FEs


ts1e7r0b/symmetric/bayg29−20
Objective Value
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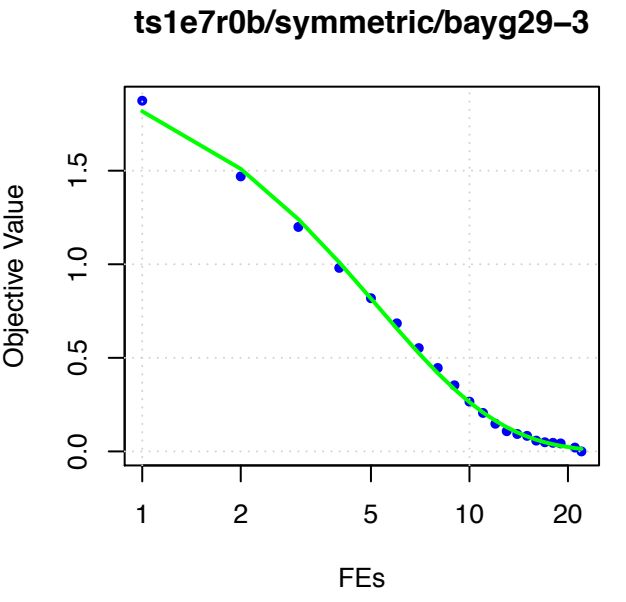
1.0
1.5
2.0
1
2
5
10
20
FEs


ts1e7r0b/symmetric/bayg29−3
Objective Value
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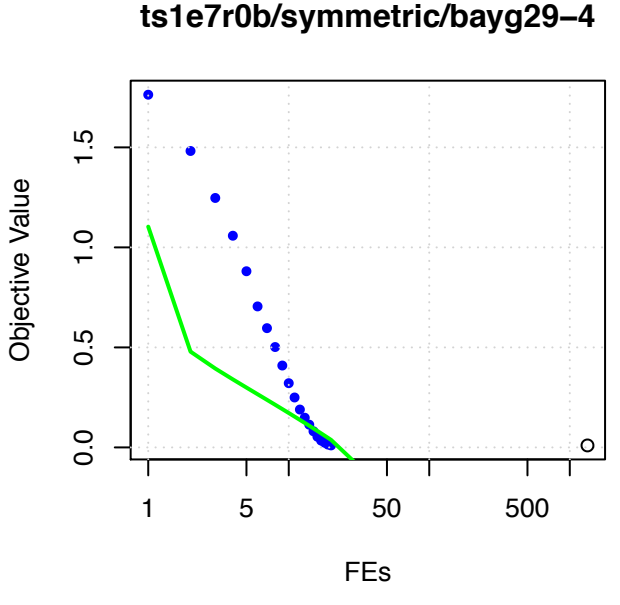
0.5
1.0
1.5
1
2
5
10
20
FEs


ts1e7r0b/symmetric/bayg29−4
Objective Value
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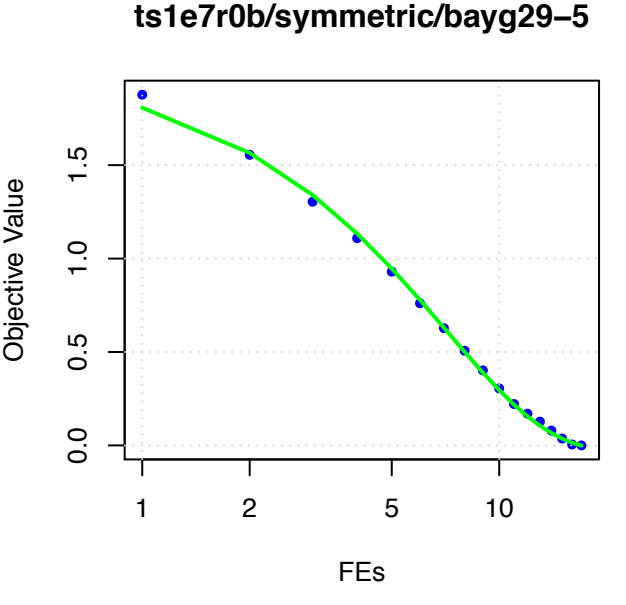
0.5
1.0
1.5
1
5
50
500
FEs


ts1e7r0b/symmetric/bayg29−5
Objective Value
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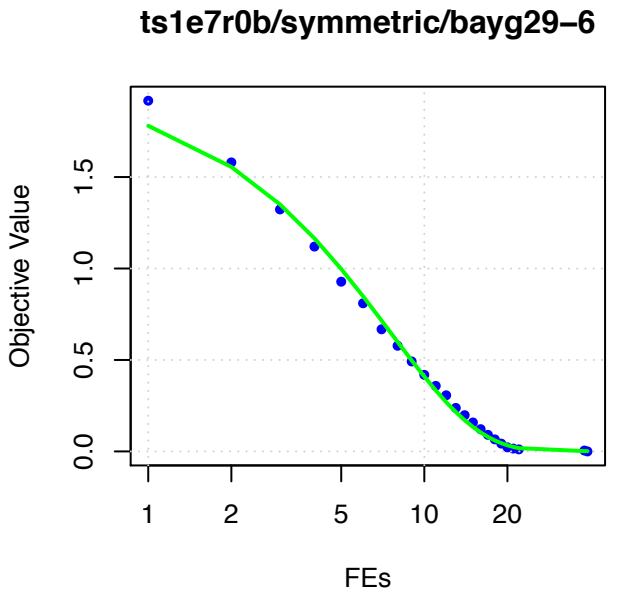
0.5
1.0
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/bayg29−6
Objective Value
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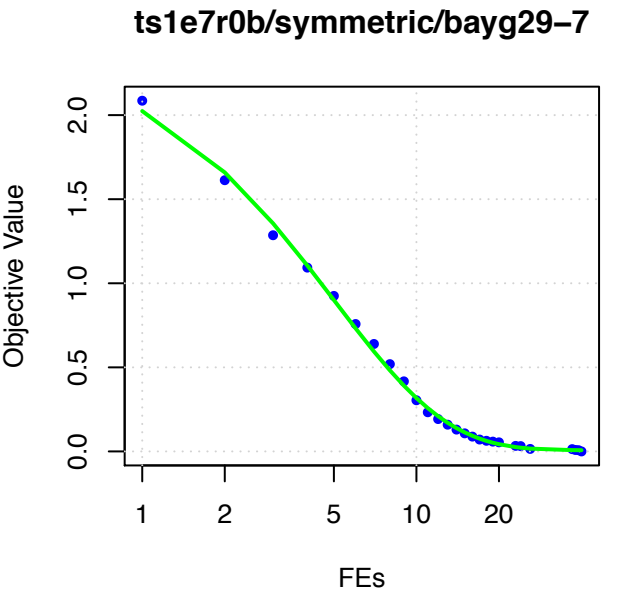
0.5
1.0
1.5
1
2
5
10
20
FEs


ts1e7r0b/symmetric/bayg29−7
Objective Value
0.0
0.5
1.0
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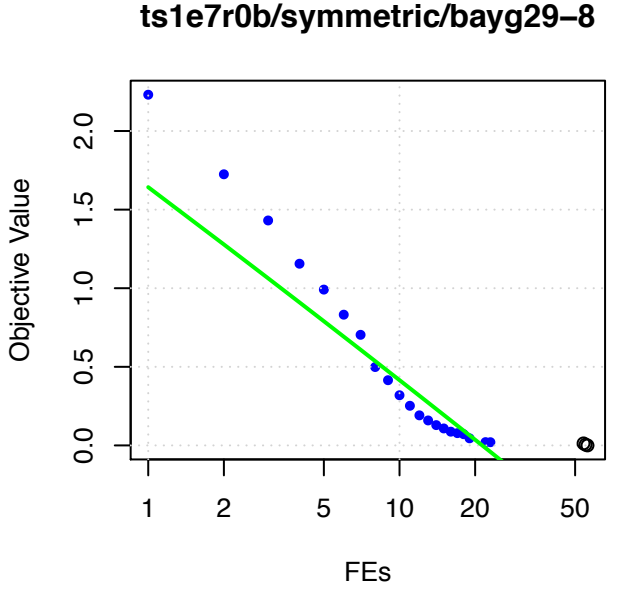
FEs


ts1e7r0b/symmetric/bayg29−8
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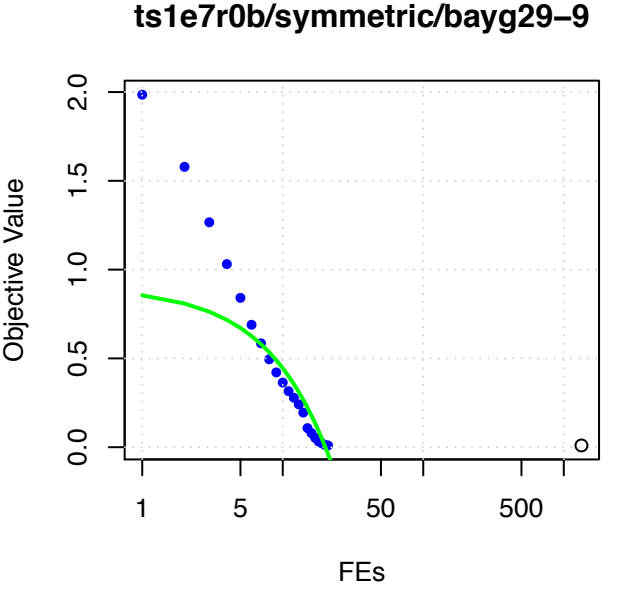
ts1e7r0b/symmetric/bayg29−9
Objective Value
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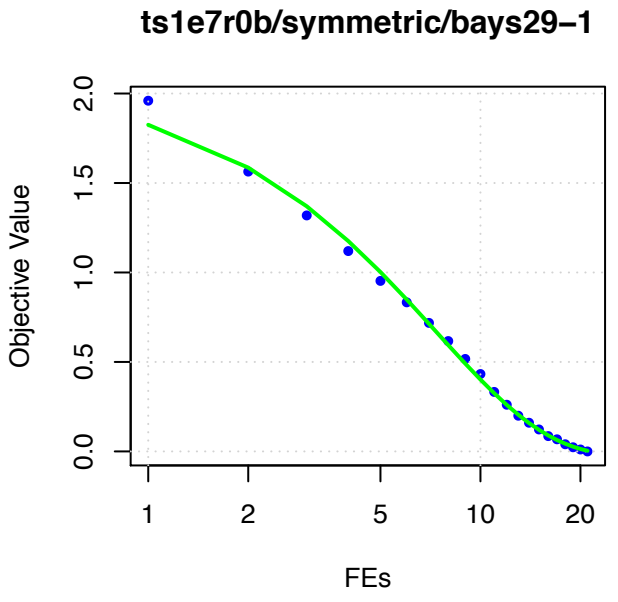
FEs


ts1e7r0b/symmetric/bays29−1
Objective Value
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1.5
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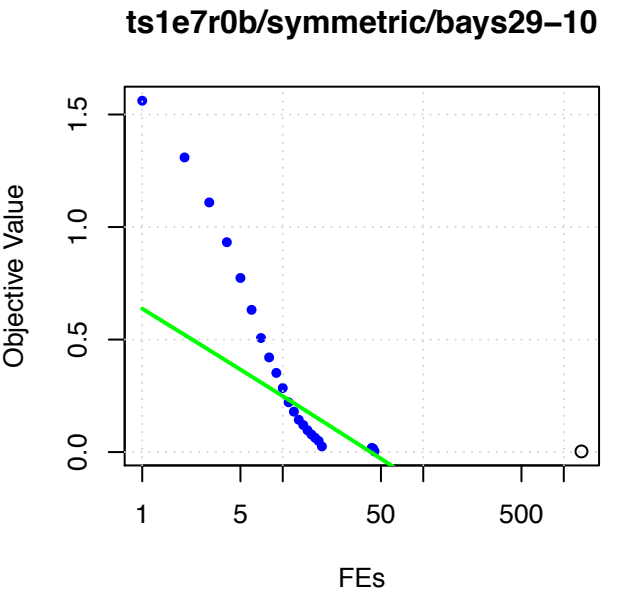
2
5
10
20
FEs


ts1e7r0b/symmetric/bays29−10
Objective Value
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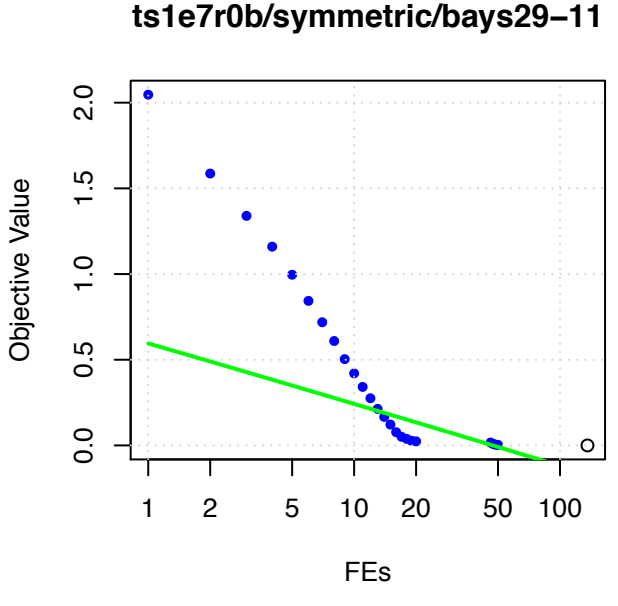
FEs


ts1e7r0b/symmetric/bays29−11
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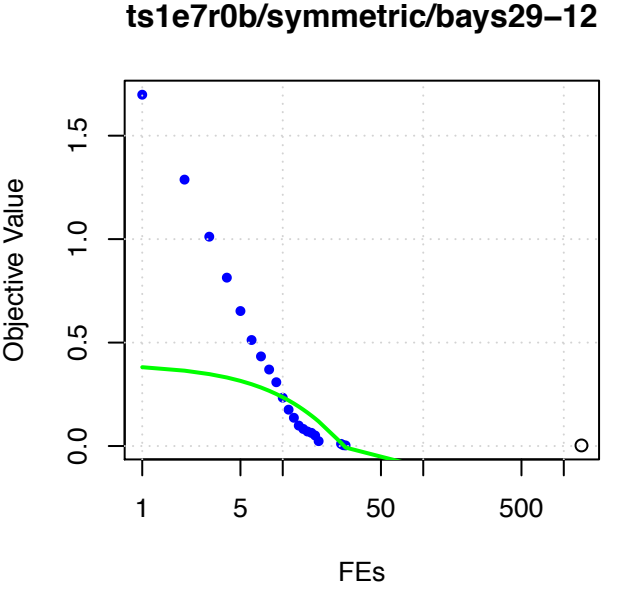
FEs


ts1e7r0b/symmetric/bays29−12
Objective Value
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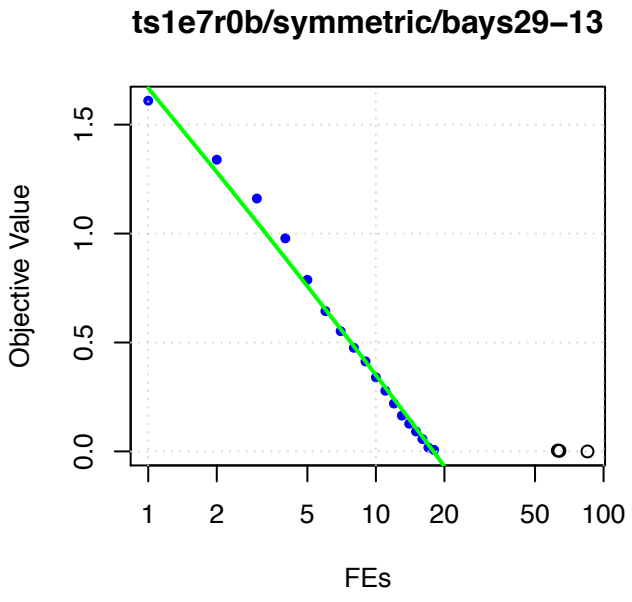
FEs


ts1e7r0b/symmetric/bays29−13
Objective Value
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1.5
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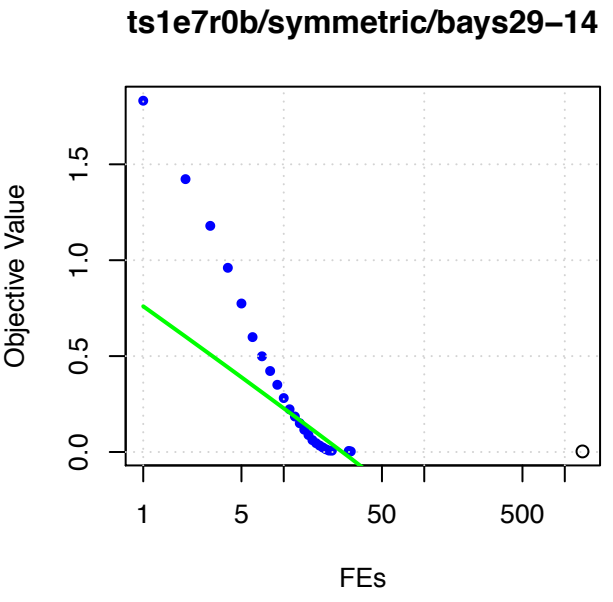
FEs


ts1e7r0b/symmetric/bays29−14
Objective Value
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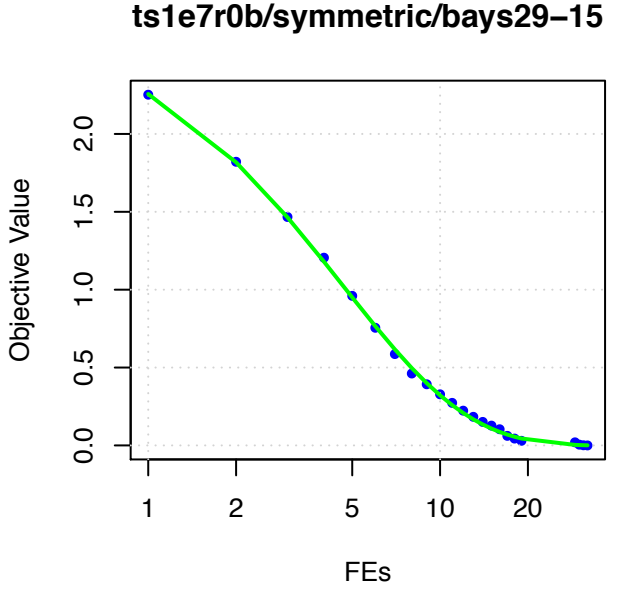
FEs


ts1e7r0b/symmetric/bays29−15
Objective Value
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1.5
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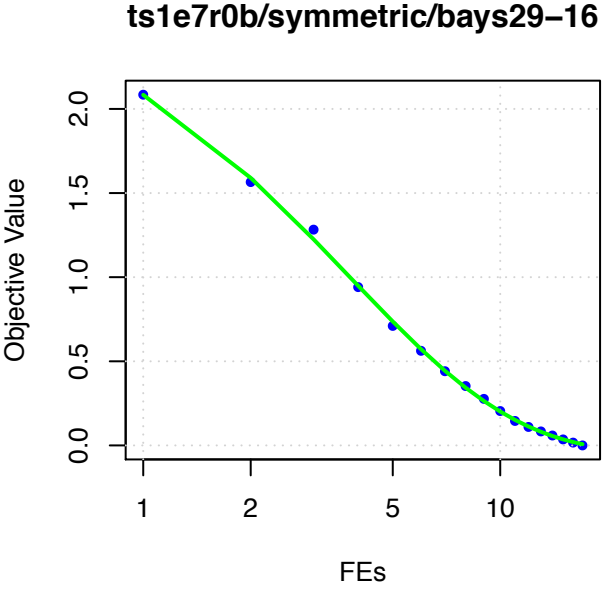
2
5
10
20
FEs


ts1e7r0b/symmetric/bays29−16
Objective Value
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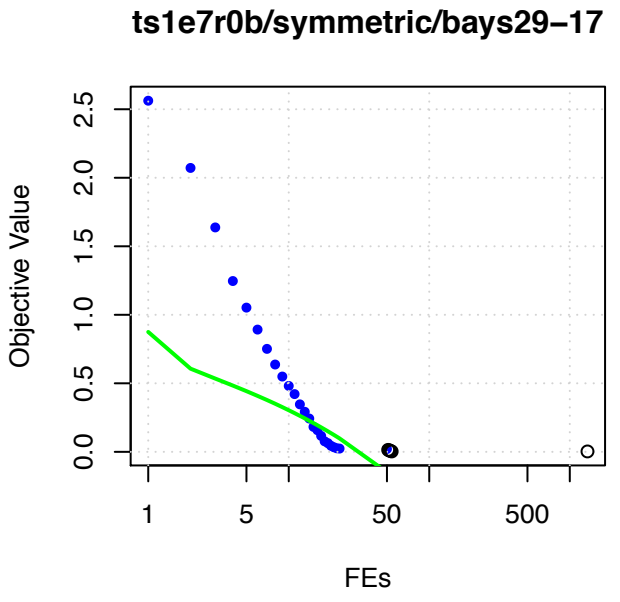
2
5
10
FEs


ts1e7r0b/symmetric/bays29−17
Objective Value
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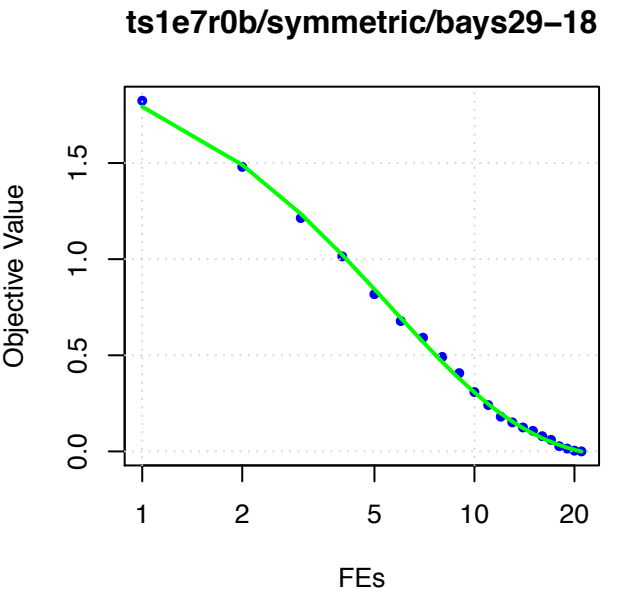
1.5
2.0
2.5
1
5
50
500
FEs


ts1e7r0b/symmetric/bays29−18
Objective Value
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1.5
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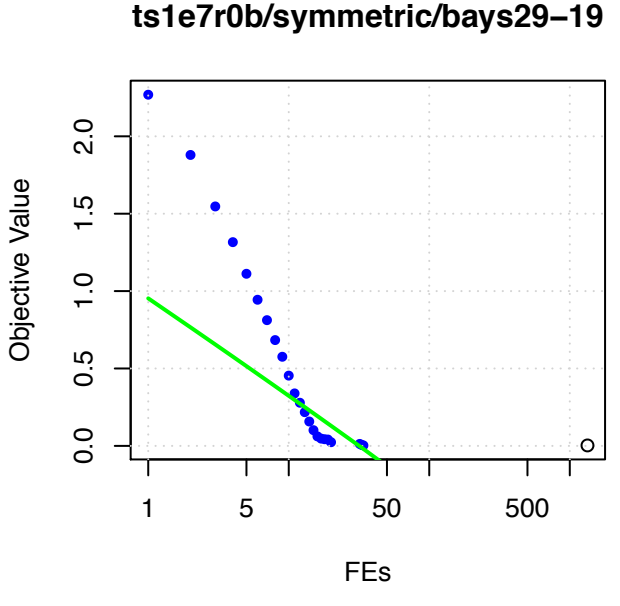
2
5
10
20
FEs


ts1e7r0b/symmetric/bays29−19
Objective Value
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1
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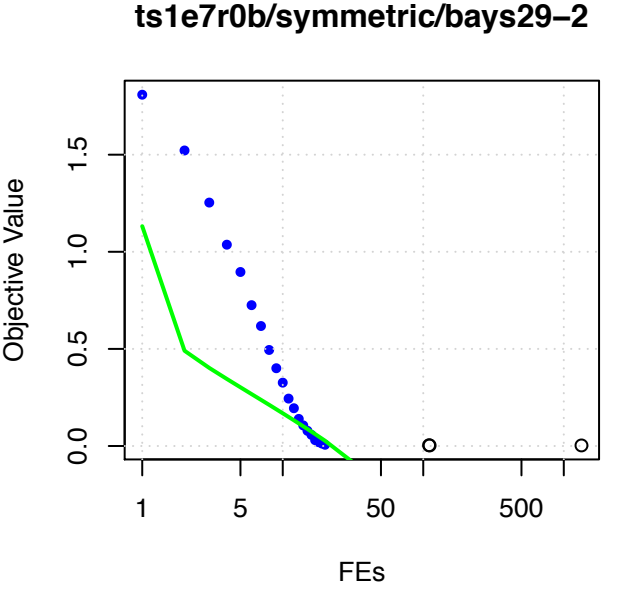
50
500
FEs


ts1e7r0b/symmetric/bays29−2
Objective Value
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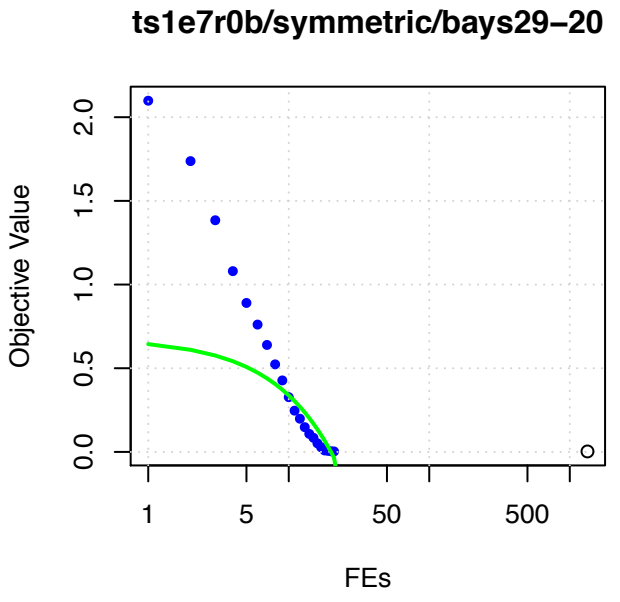
500
FEs


ts1e7r0b/symmetric/bays29−20
Objective Value
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1.5
2.0
1
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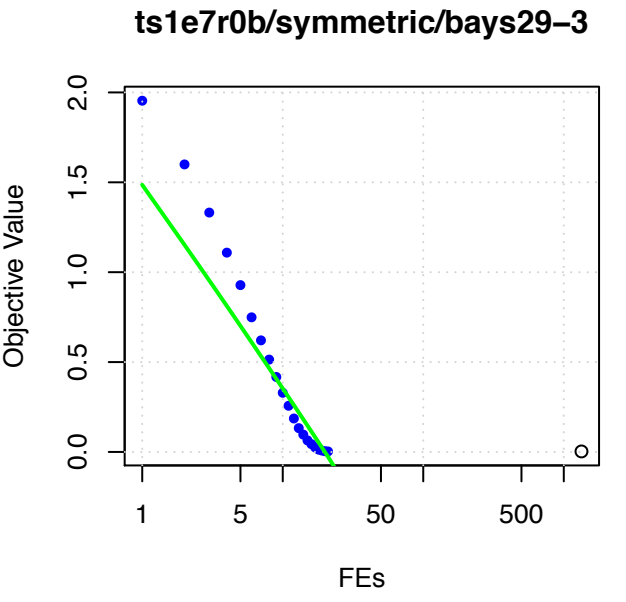
50
500
FEs


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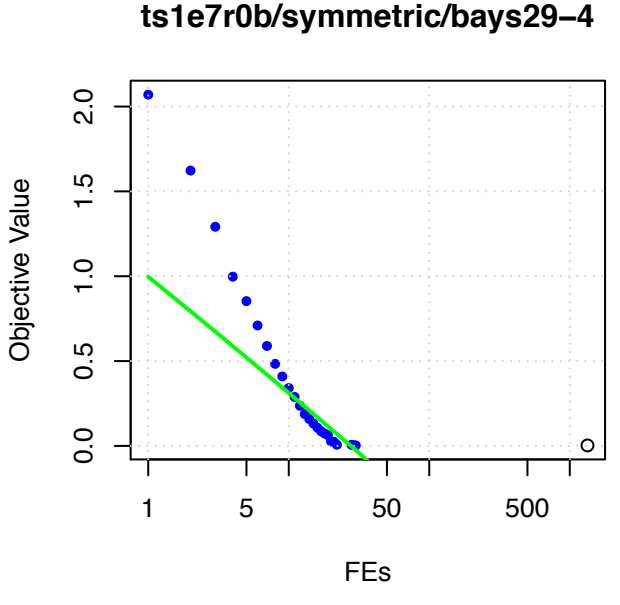
1.0
1.5
2.0
1
5
50
500
FEs


ts1e7r0b/symmetric/bays29−4
Objective Value
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1.0
1.5
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1
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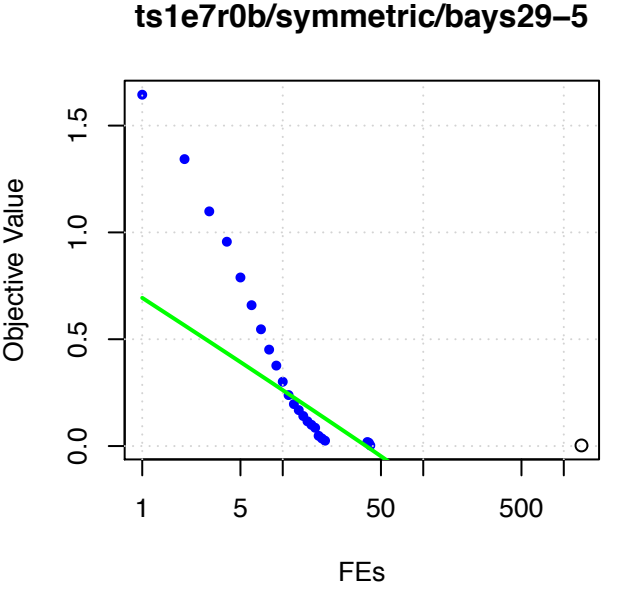
50
500
FEs


ts1e7r0b/symmetric/bays29−5
Objective Value
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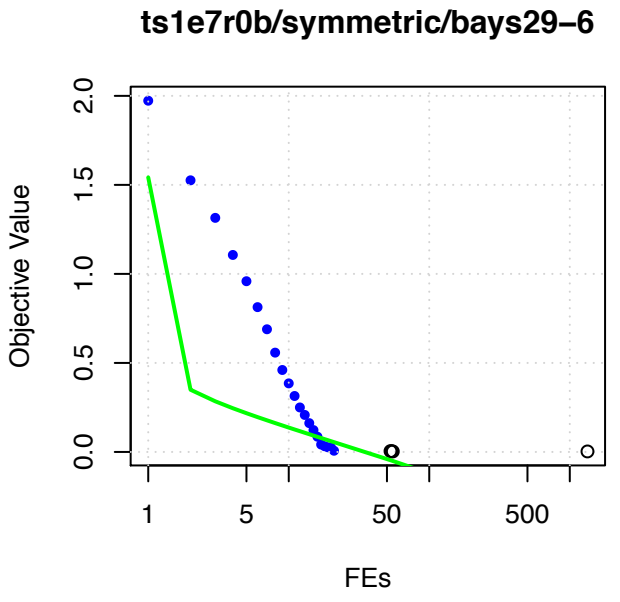
1.0
1.5
1
5
50
500
FEs


ts1e7r0b/symmetric/bays29−6
Objective Value
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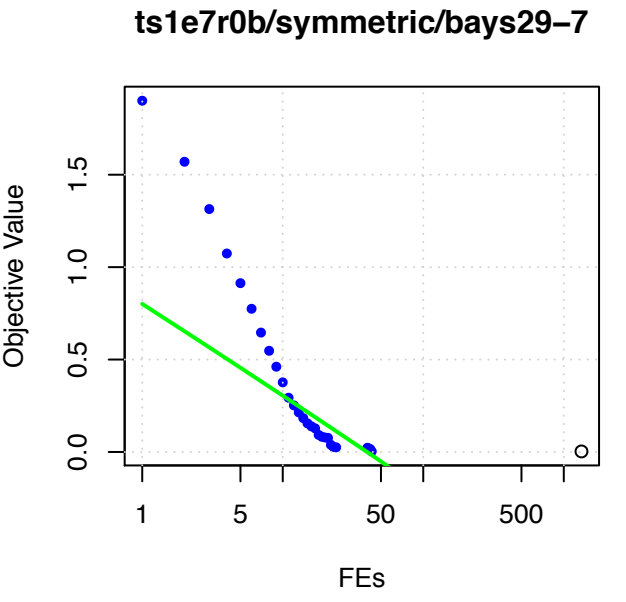
1.5
2.0
1
5
50
500
FEs


ts1e7r0b/symmetric/bays29−7
Objective Value
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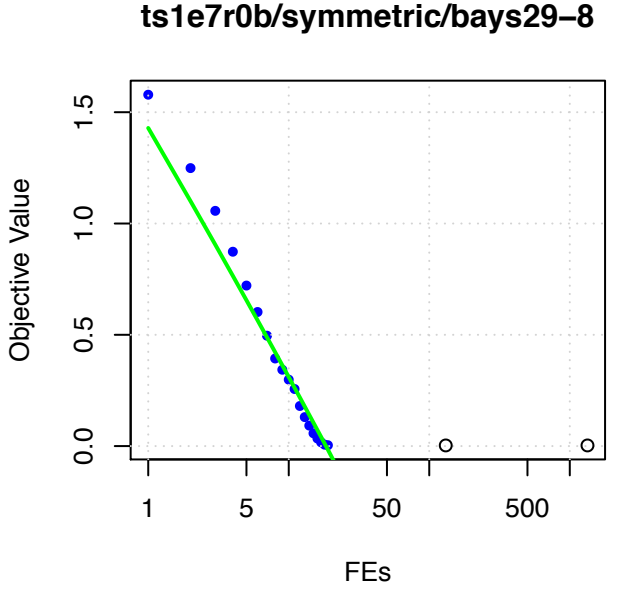
1.5
1
5
50
500
FEs


ts1e7r0b/symmetric/bays29−8
Objective Value
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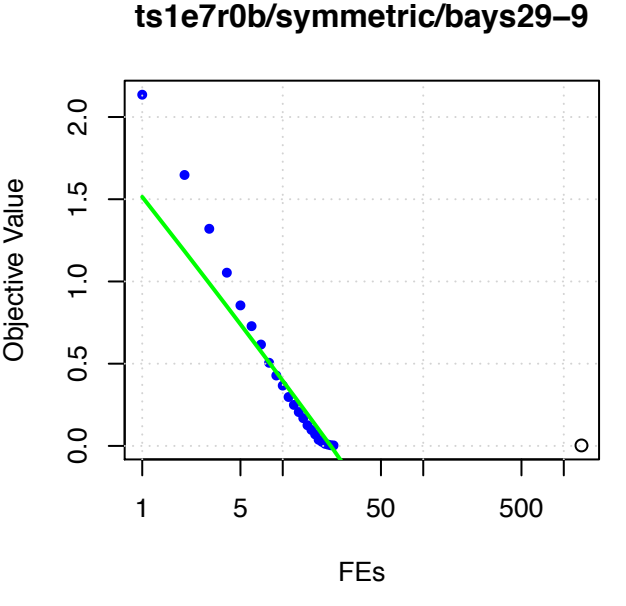
500
FEs


ts1e7r0b/symmetric/bays29−9
Objective Value
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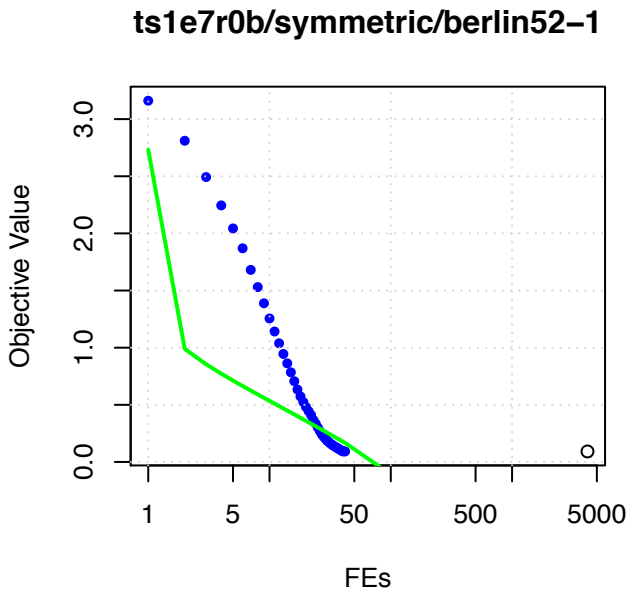
FEs


ts1e7r0b/symmetric/berlin52−1
Objective Value
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3.0
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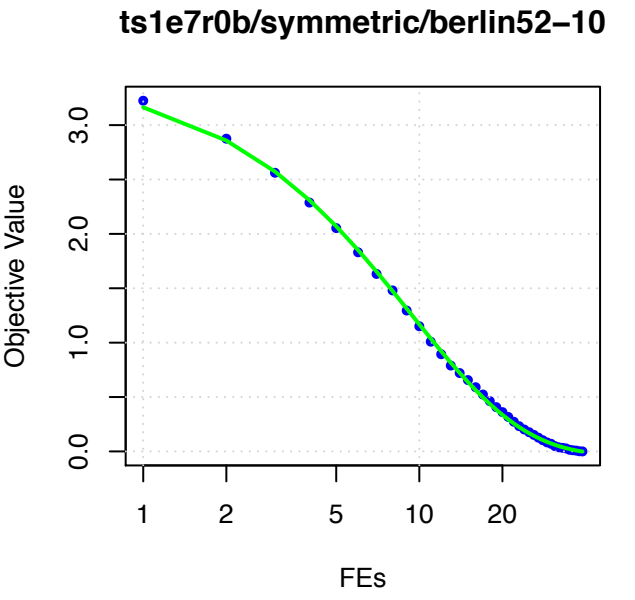
500
5000
FEs


ts1e7r0b/symmetric/berlin52−10
Objective Value
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2.0
3.0
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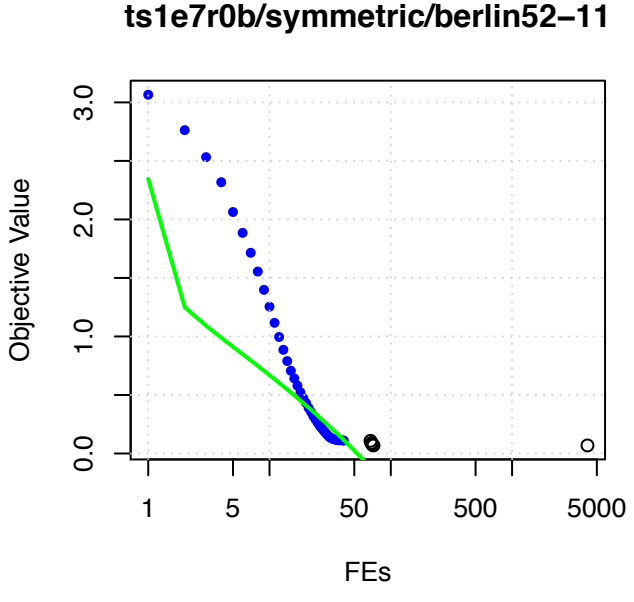
10
20
FEs


ts1e7r0b/symmetric/berlin52−11
Objective Value
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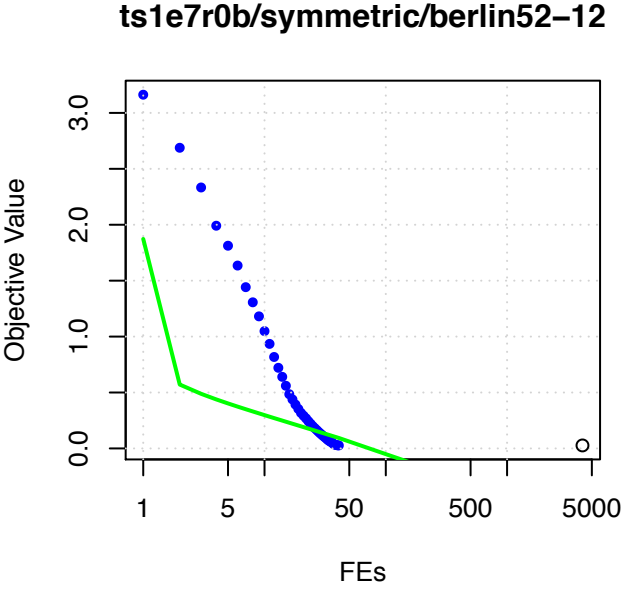
FEs


ts1e7r0b/symmetric/berlin52−12
Objective Value
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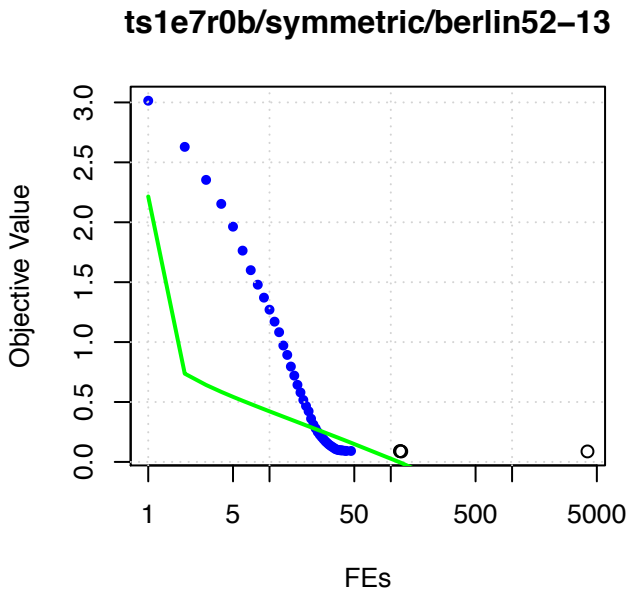
500
5000
FEs


ts1e7r0b/symmetric/berlin52−13
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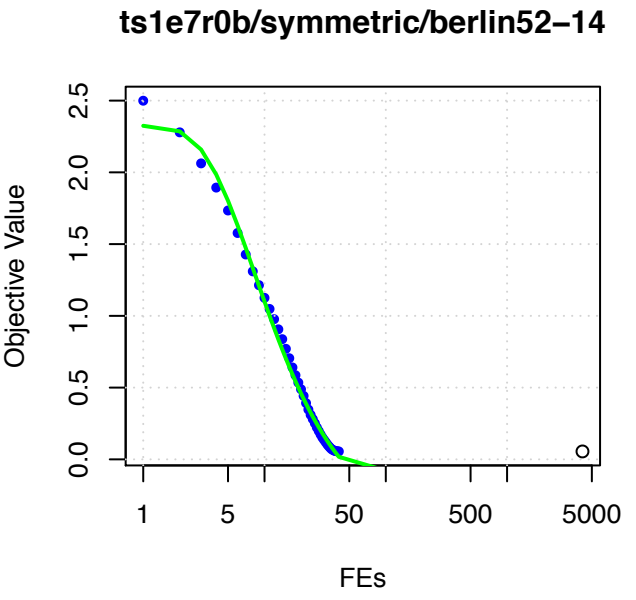
5000
FEs


ts1e7r0b/symmetric/berlin52−14
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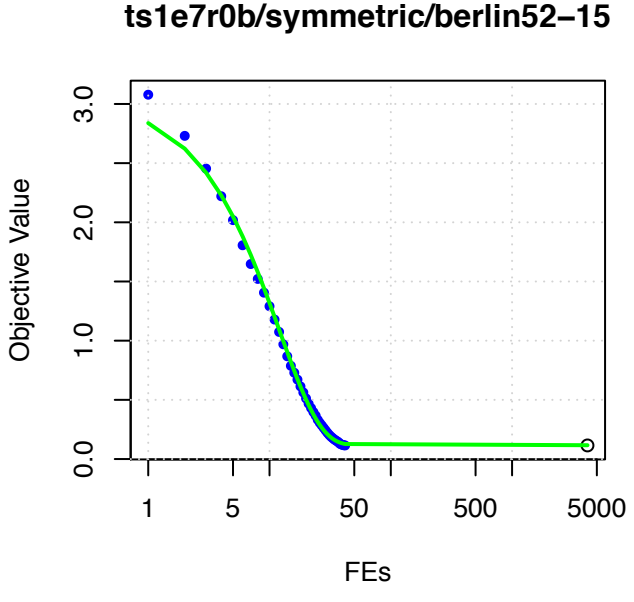
500
5000
FEs


ts1e7r0b/symmetric/berlin52−15
Objective Value
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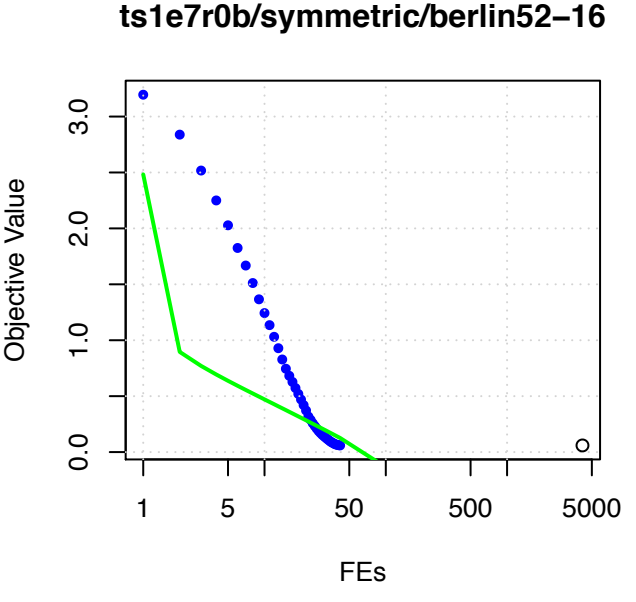
500
5000
FEs


ts1e7r0b/symmetric/berlin52−16
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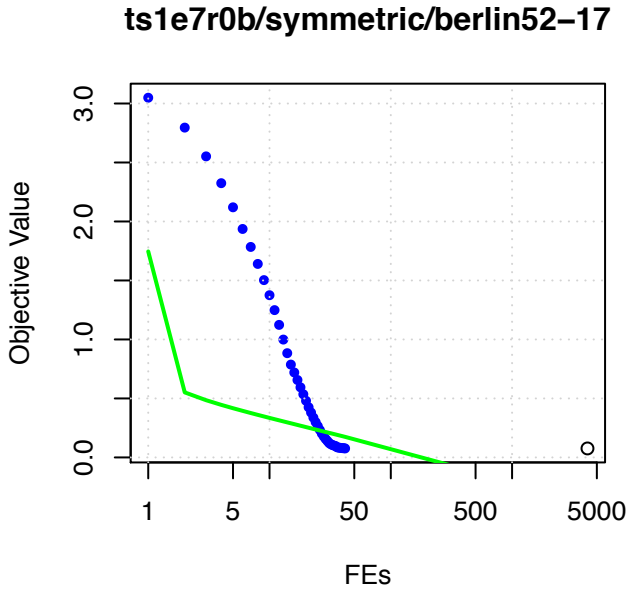
500
5000
FEs


ts1e7r0b/symmetric/berlin52−17
Objective Value
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500
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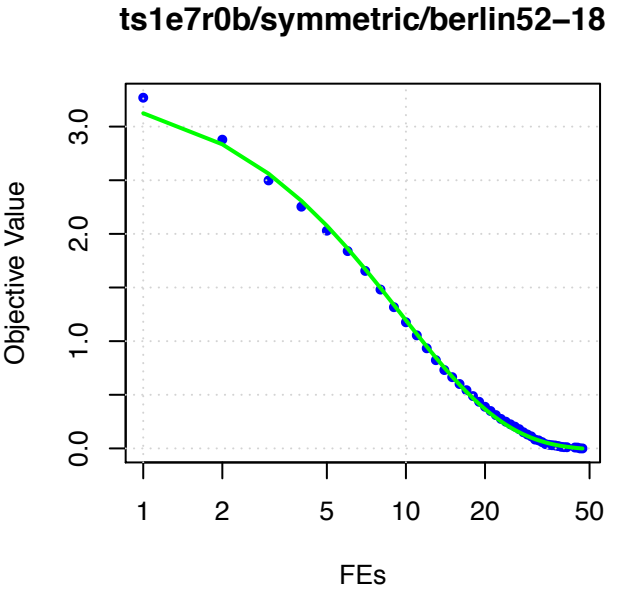
FEs


ts1e7r0b/symmetric/berlin52−18
Objective Value
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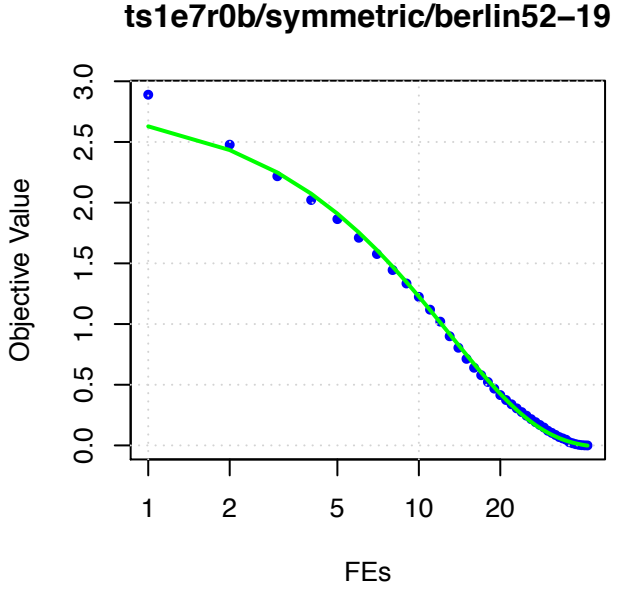
FEs


ts1e7r0b/symmetric/berlin52−19
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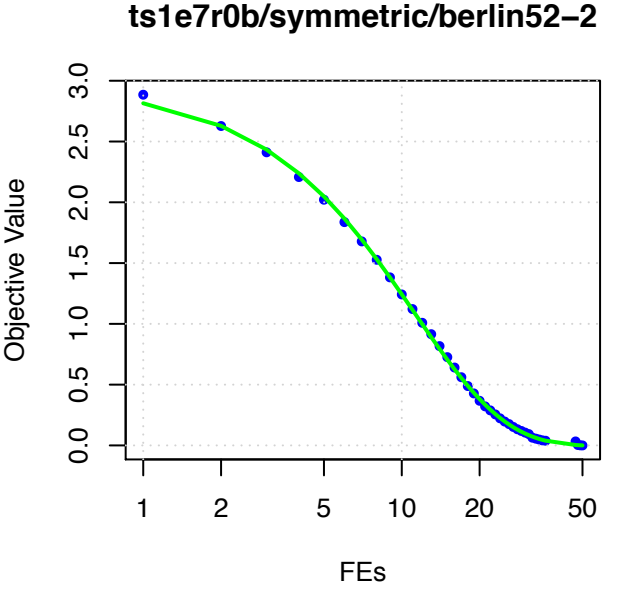
20
FEs


ts1e7r0b/symmetric/berlin52−2
Objective Value
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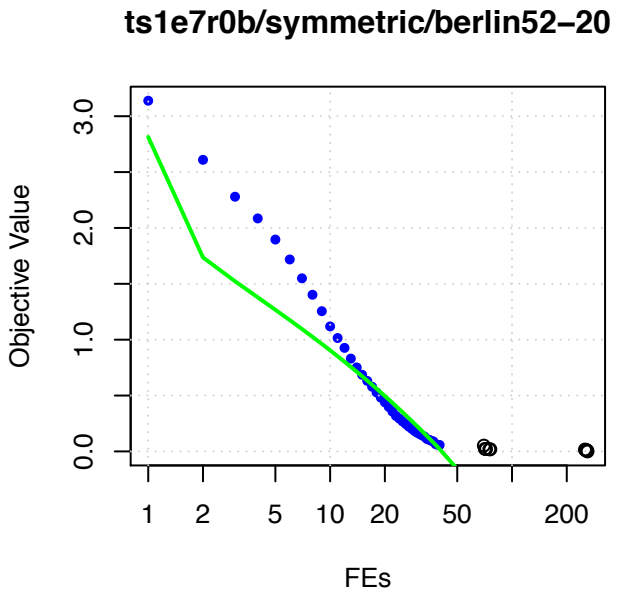
FEs


ts1e7r0b/symmetric/berlin52−20
Objective Value
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3.0
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2
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10
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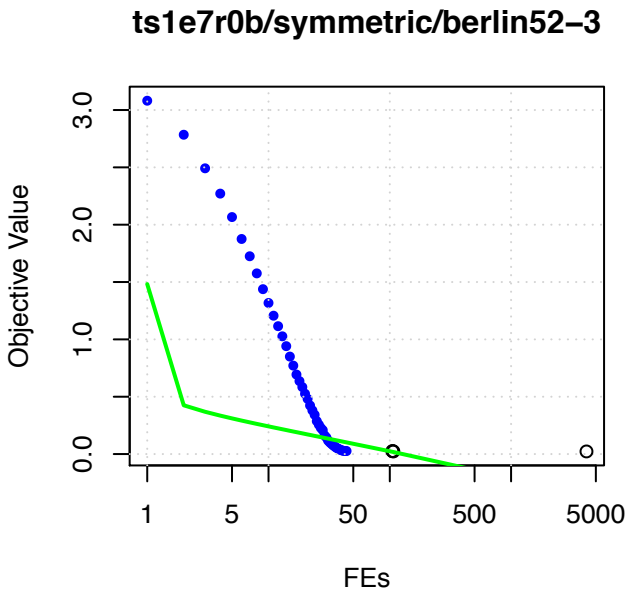
50
200
FEs


ts1e7r0b/symmetric/berlin52−3
Objective Value
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2.0
3.0
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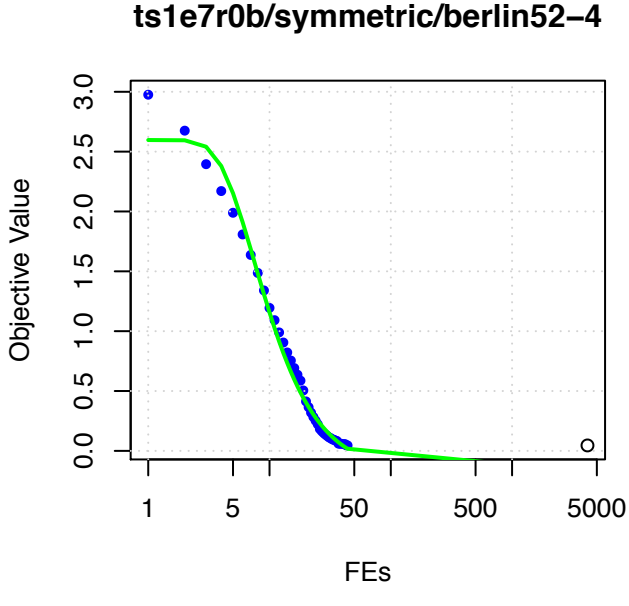
5
50
500
5000
FEs


ts1e7r0b/symmetric/berlin52−4
Objective Value
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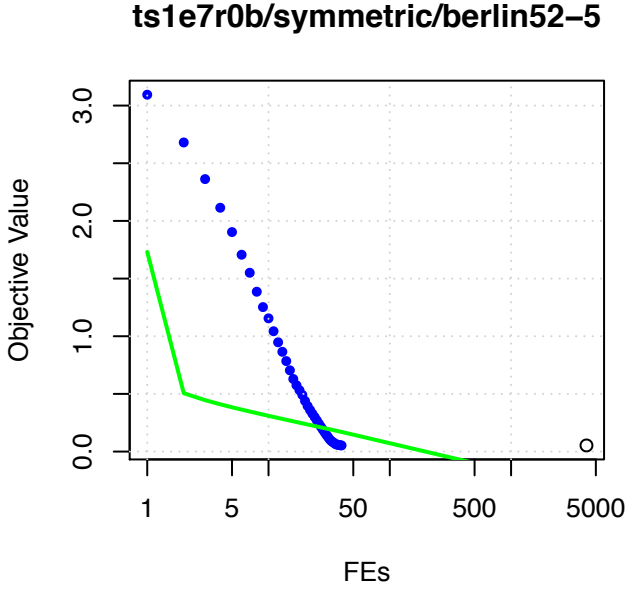
500
5000
FEs


ts1e7r0b/symmetric/berlin52−5
Objective Value
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3.0
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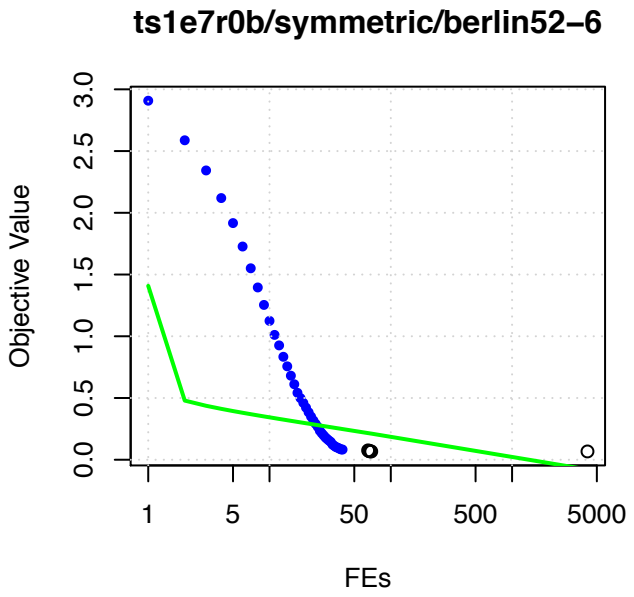
500
5000
FEs


ts1e7r0b/symmetric/berlin52−6
Objective Value
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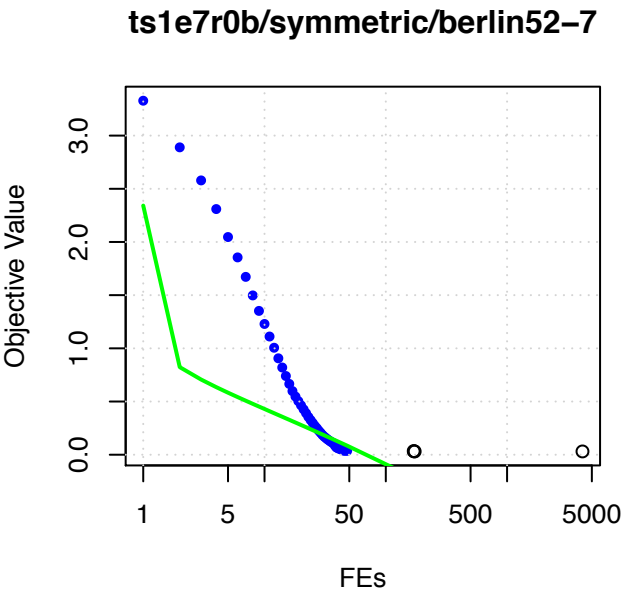
500
5000
FEs


ts1e7r0b/symmetric/berlin52−7
Objective Value
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2.0
3.0
1
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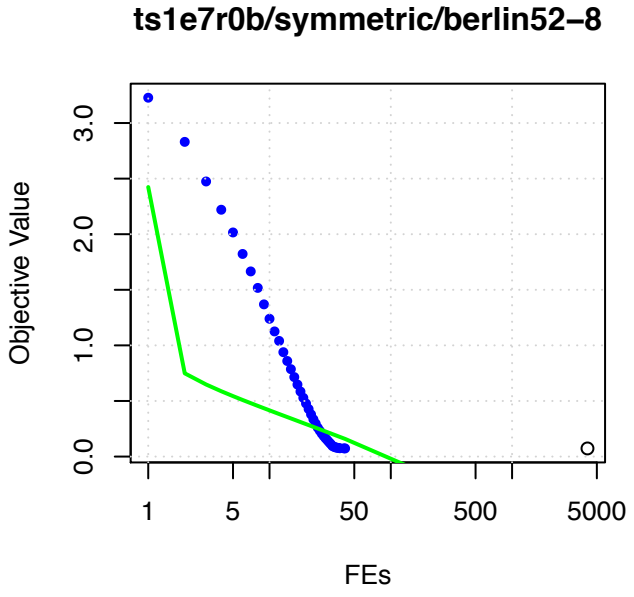
50
500
5000
FEs


ts1e7r0b/symmetric/berlin52−8
Objective Value
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2.0
3.0
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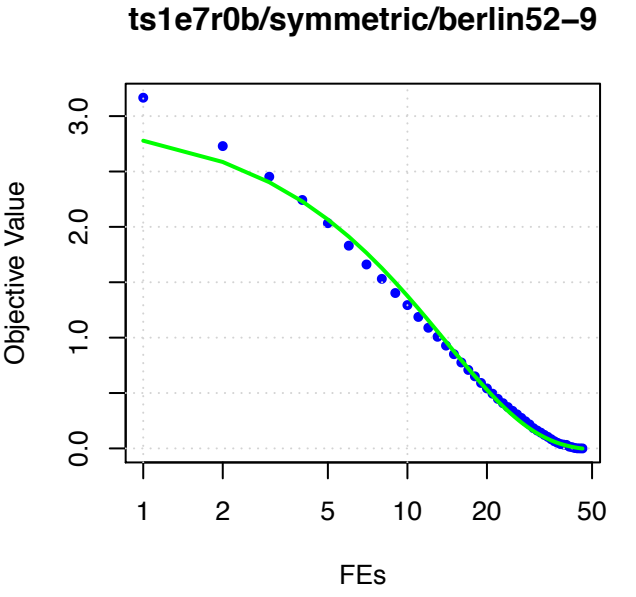
5000
FEs


ts1e7r0b/symmetric/berlin52−9
Objective Value
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2.0
3.0
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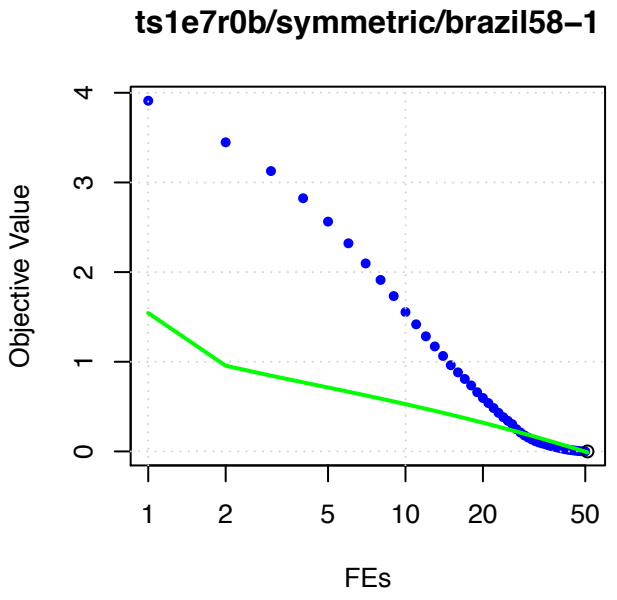
2
5
10
20
50
FEs


ts1e7r0b/symmetric/brazil58−1
Objective Value
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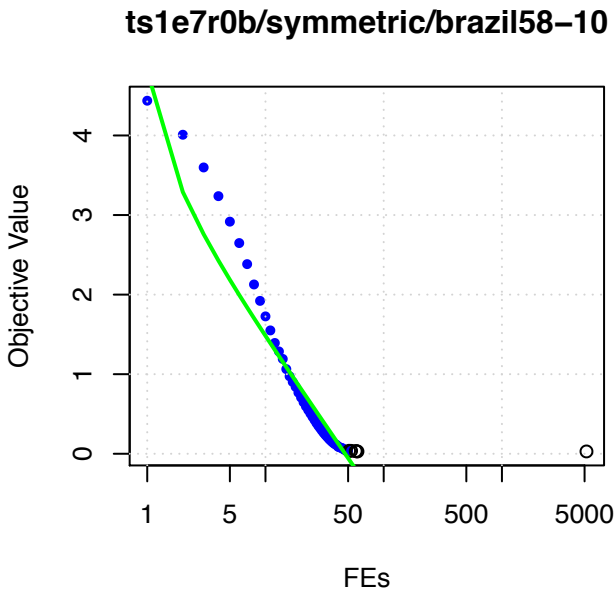
1
2
3
4
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/brazil58−10
Objective Value
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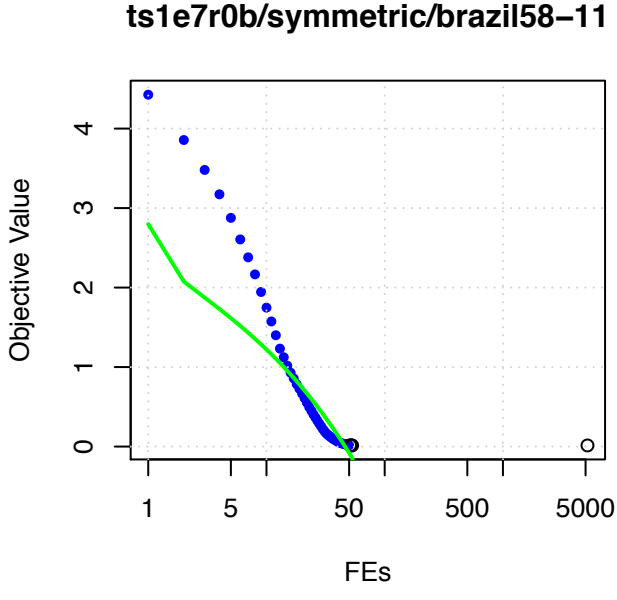
3
4
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/brazil58−11
Objective Value
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1
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3
4
1
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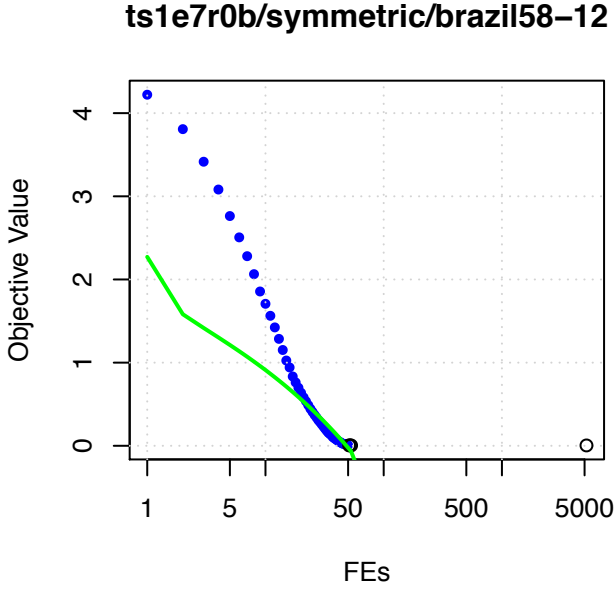
50
500
5000
FEs


ts1e7r0b/symmetric/brazil58−12
Objective Value
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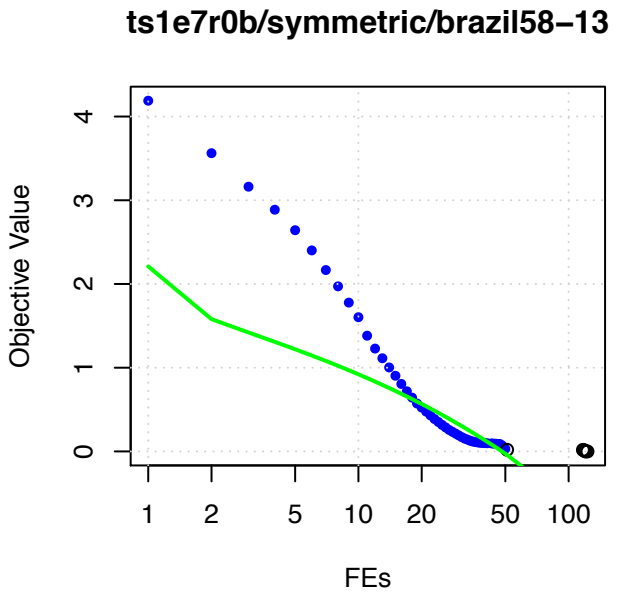
500
5000
FEs


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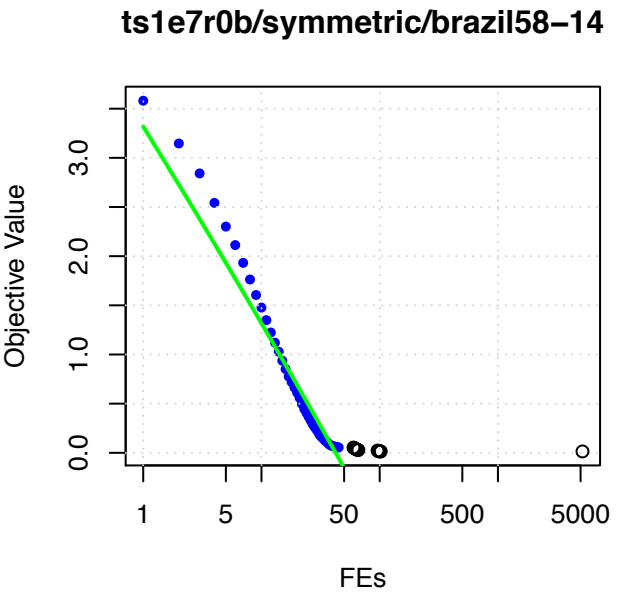
1
2
3
4
1
2
5
10
20
50
100
FEs


ts1e7r0b/symmetric/brazil58−14
Objective Value
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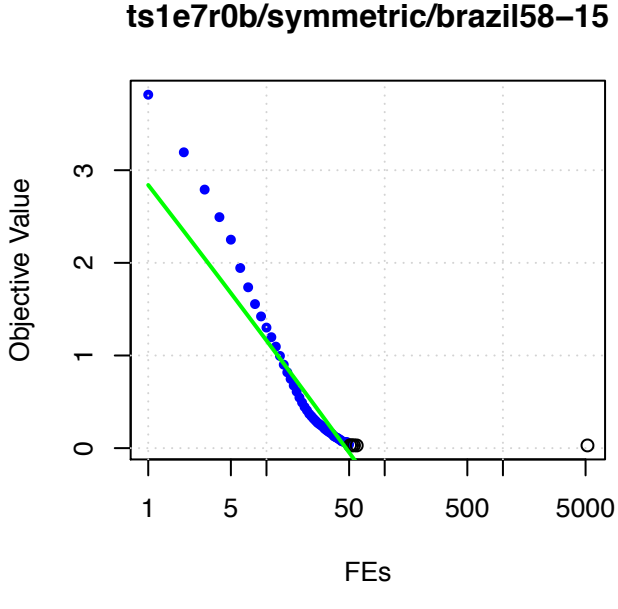
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/brazil58−15
Objective Value
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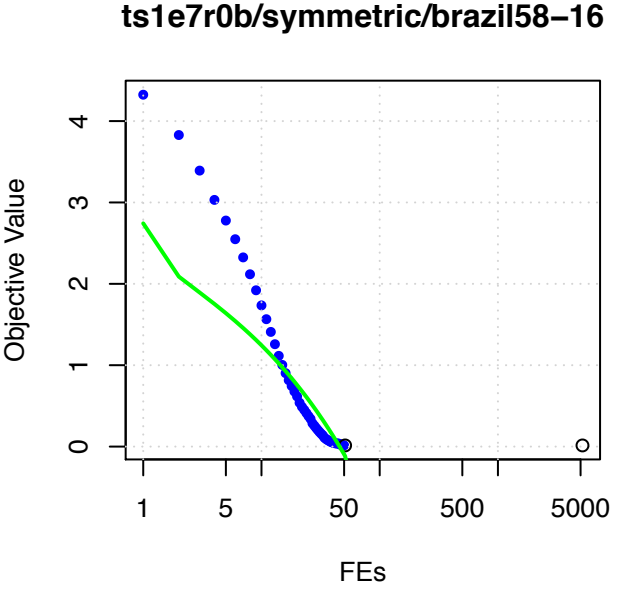
2
3
1
5
50
500
5000
FEs


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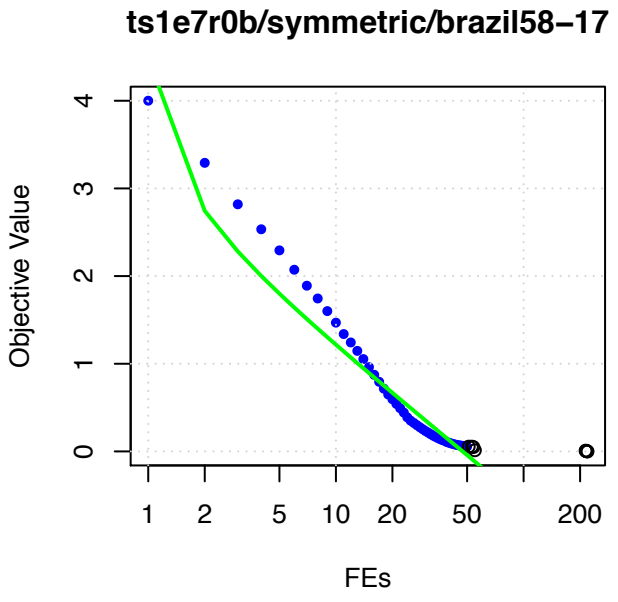
3
4
1
5
50
500
5000
FEs


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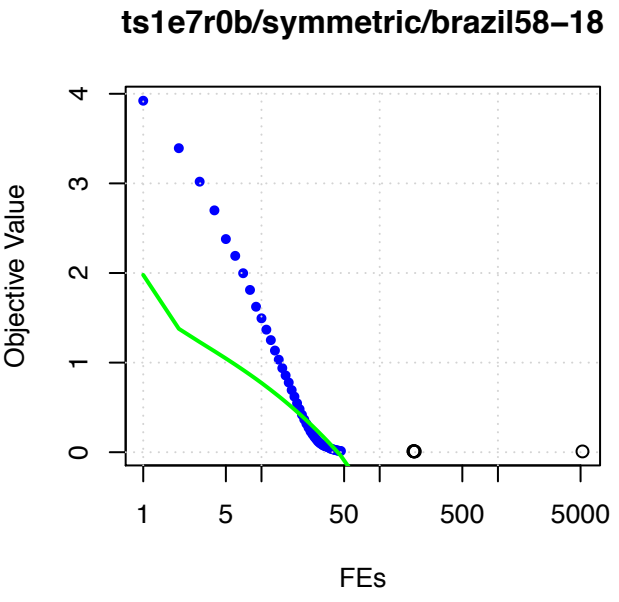
1
2
3
4
1
2
5
10
20
50
200
FEs


ts1e7r0b/symmetric/brazil58−18
Objective Value
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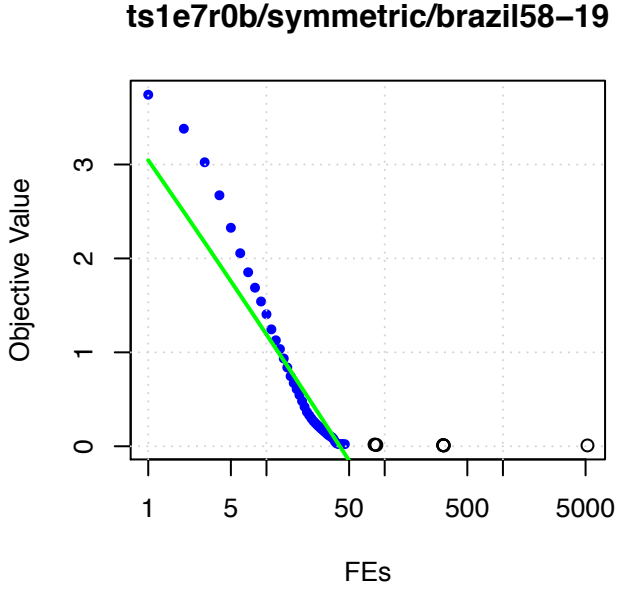
2
3
4
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/brazil58−19
Objective Value
0
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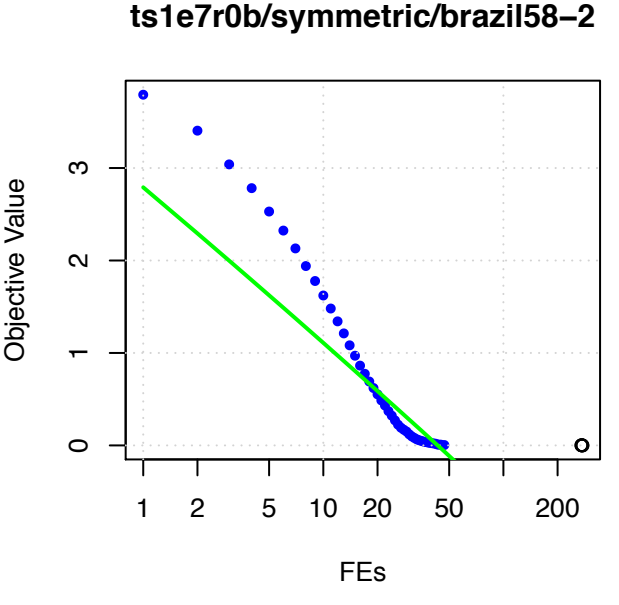
2
3
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/brazil58−2
Objective Value
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2
3
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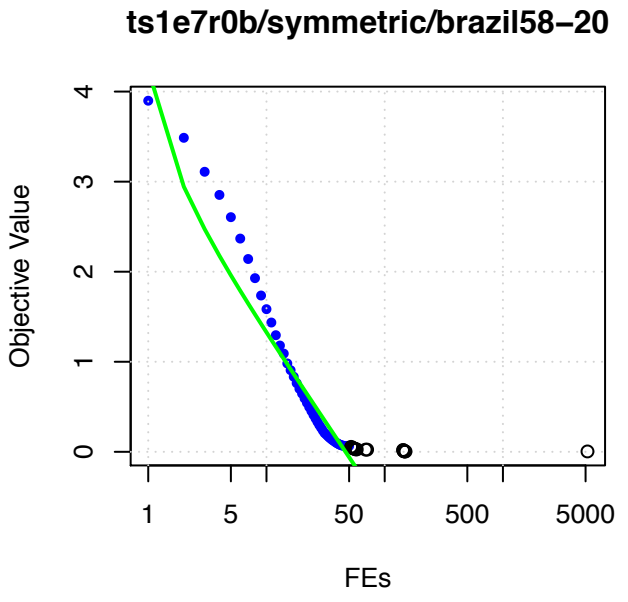
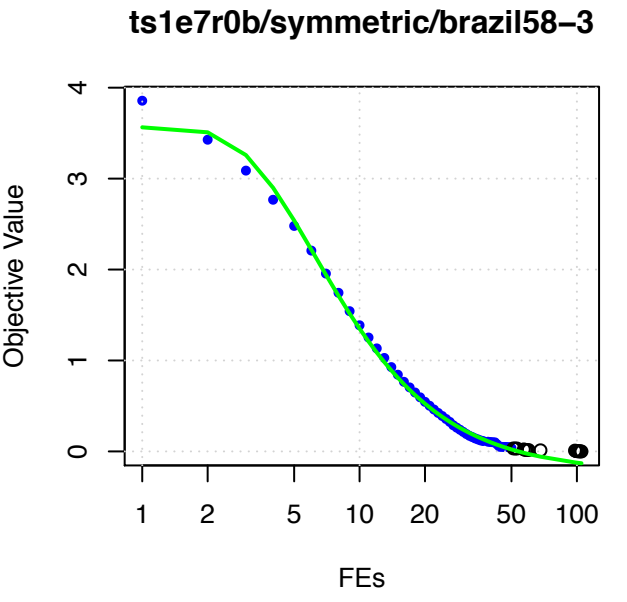
2
5
10
20
50
200
FEs


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


ts1e7r0b/symmetric/brazil58−3
Objective Value
FEs
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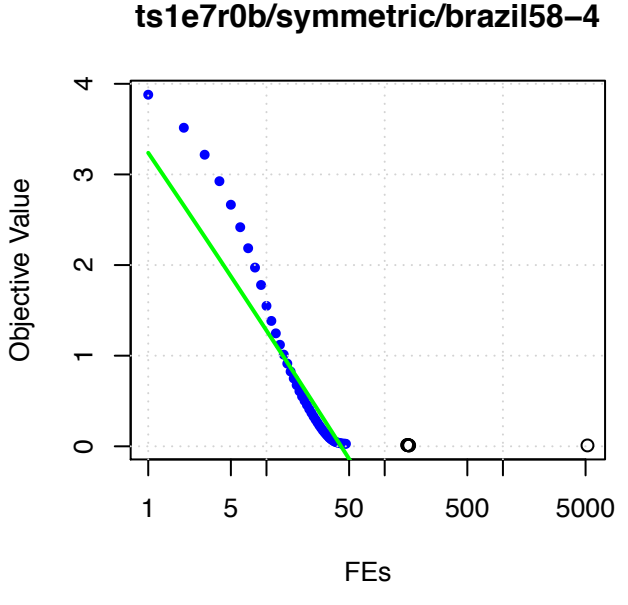
1
2
3
4
1
2
5
10
20
50
100


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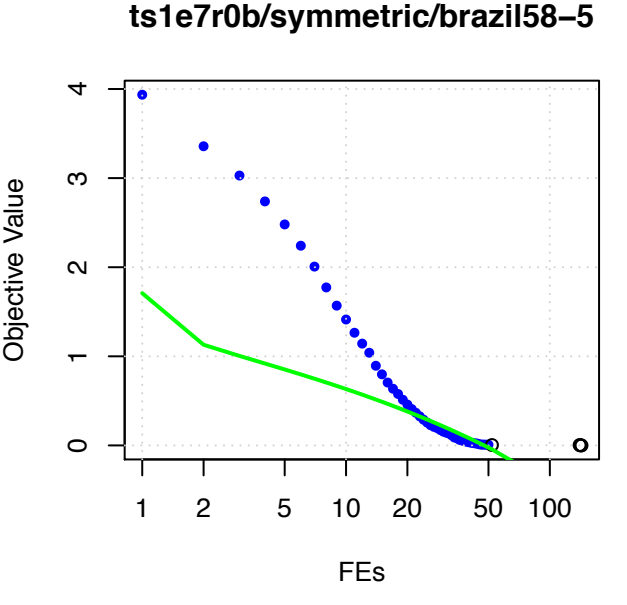
1
2
3
4
1
5
50
500
5000


ts1e7r0b/symmetric/brazil58−5
Objective Value
FEs
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1
2
3
4
1
2
5
10
20
50
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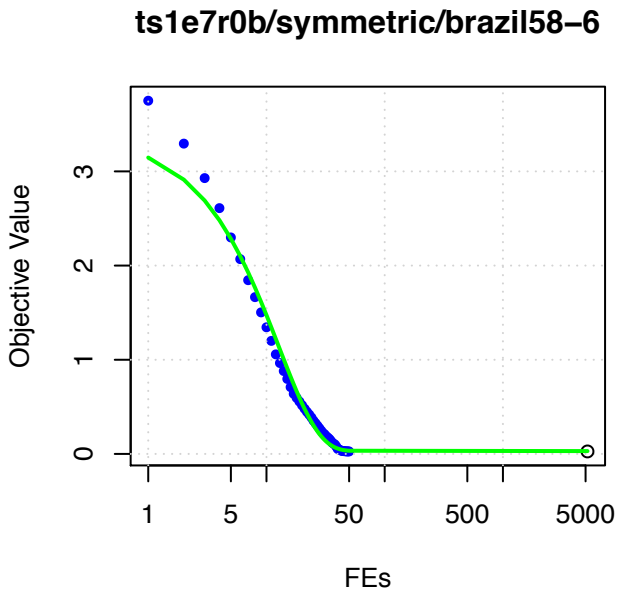
ts1e7r0b/symmetric/brazil58−6
Objective Value
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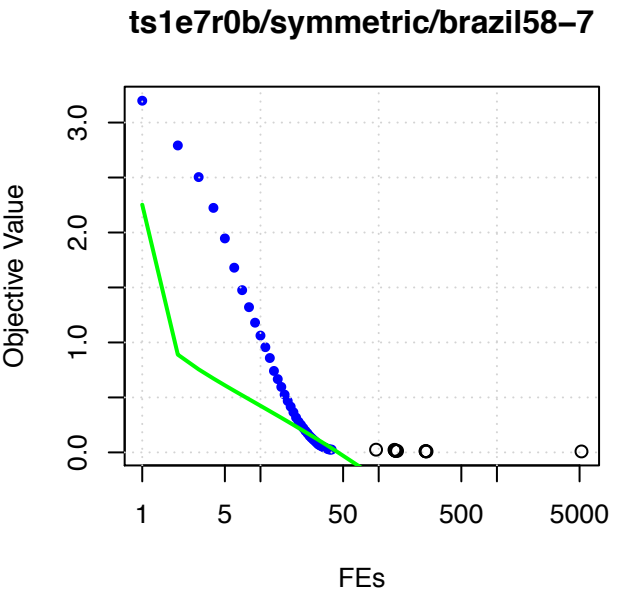
2
3
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/brazil58−7
Objective Value
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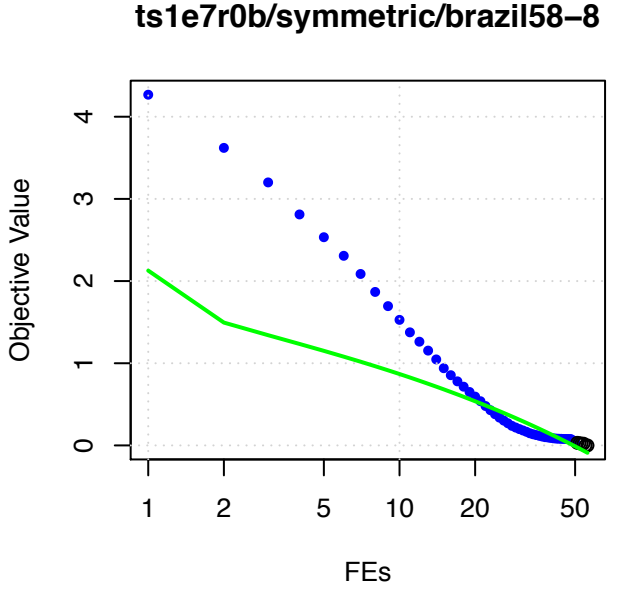
2.0
3.0
1
5
50
500
5000
FEs


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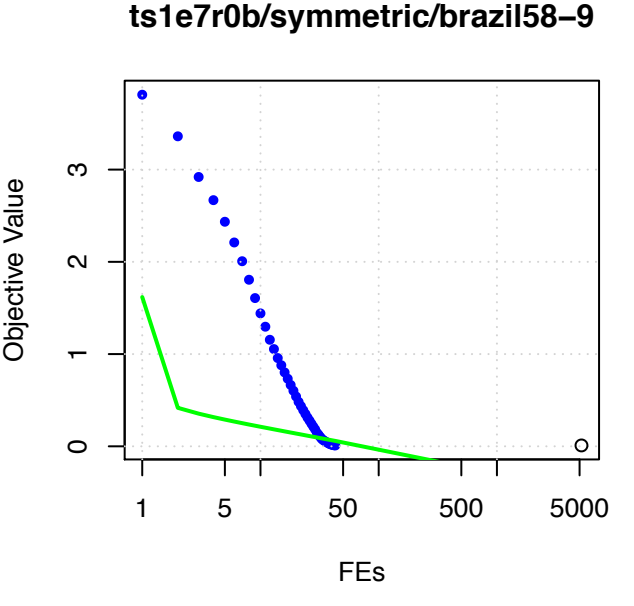
2
3
4
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/brazil58−9
Objective Value
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1
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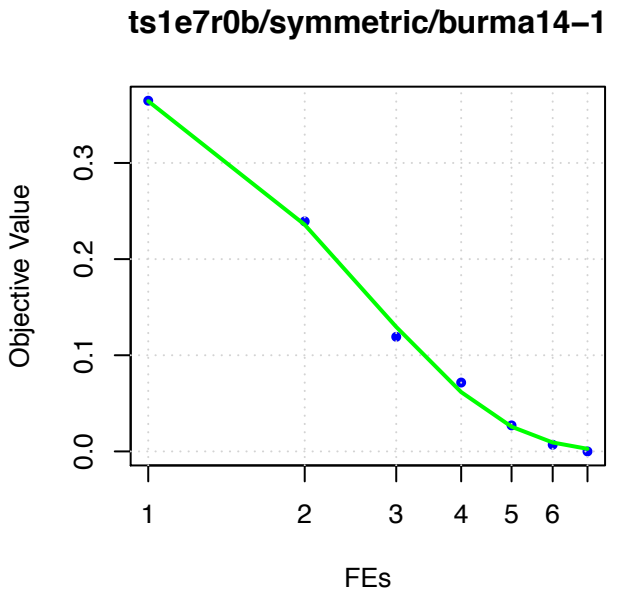
50
500
5000
FEs


ts1e7r0b/symmetric/burma14−1
Objective Value
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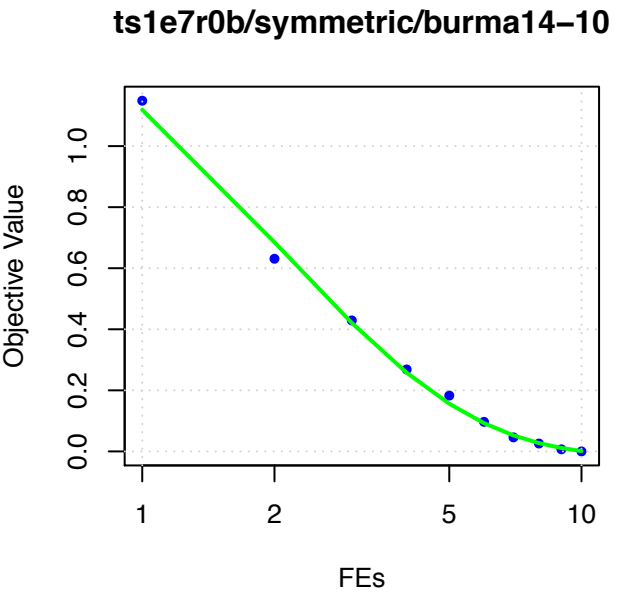
0.2
0.3
1
2
3
4
5
6
FEs


ts1e7r0b/symmetric/burma14−10
Objective Value
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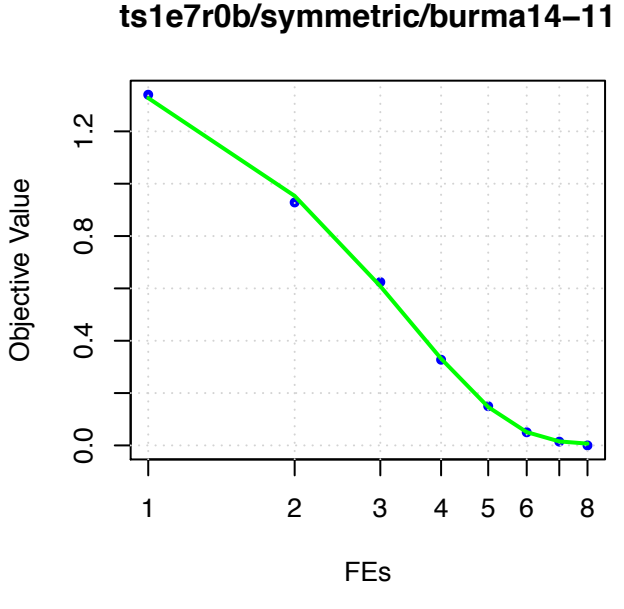
0.4
0.6
0.8
1.0
1
2
5
10
FEs


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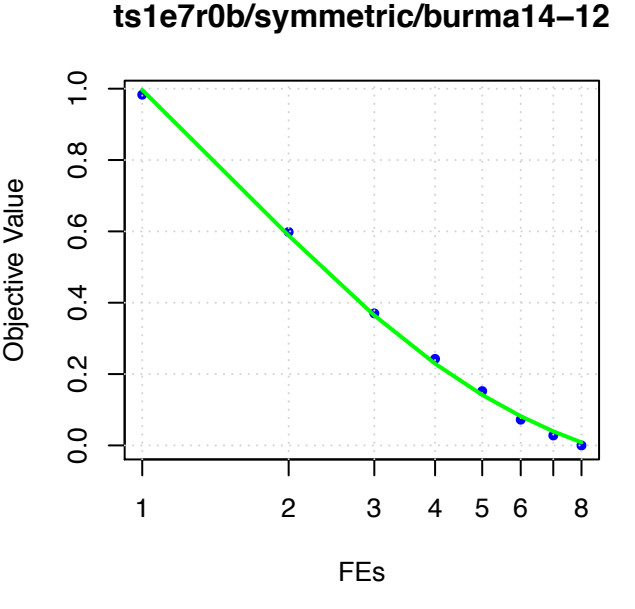
0.8
1.2
1
2
3
4
5
6
8
FEs


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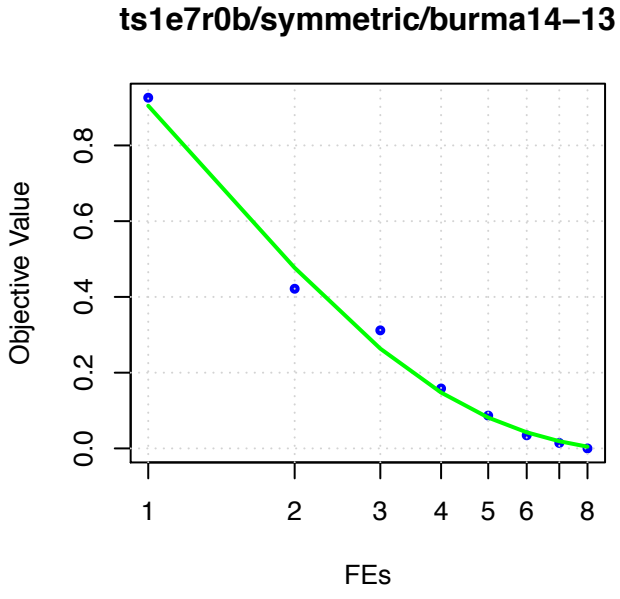
0.6
0.8
1.0
1
2
3
4
5
6
8
FEs


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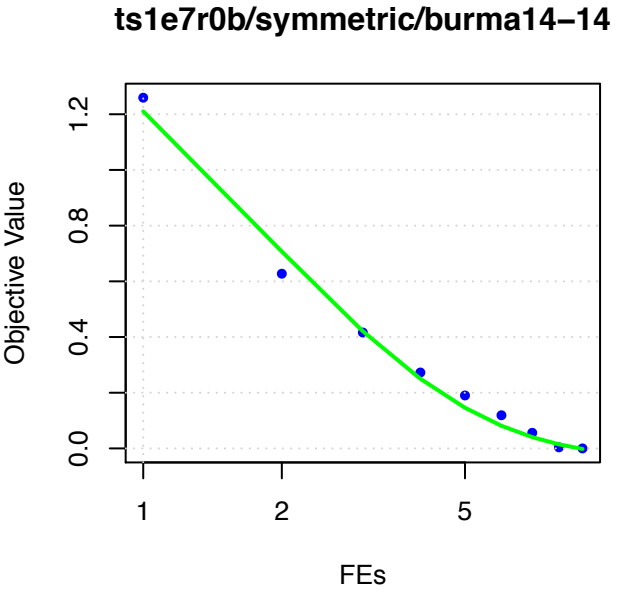
0.4
0.6
0.8
1
2
3
4
5
6
8
FEs


ts1e7r0b/symmetric/burma14−14
Objective Value
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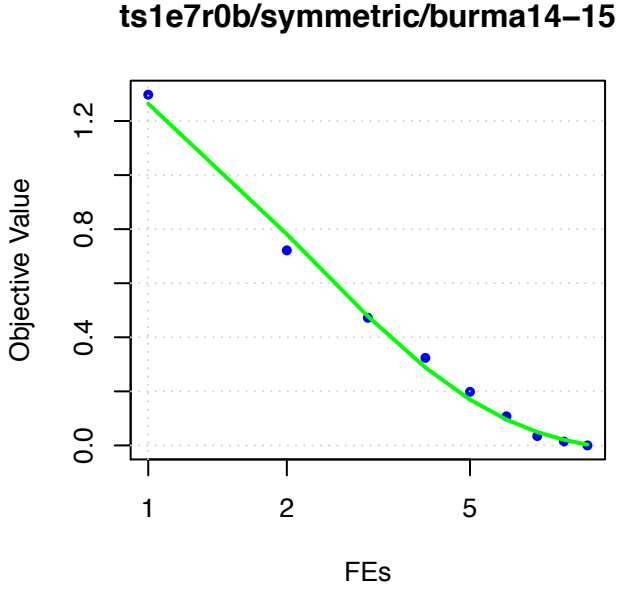
0.8
1.2
1
2
5
FEs


ts1e7r0b/symmetric/burma14−15
Objective Value
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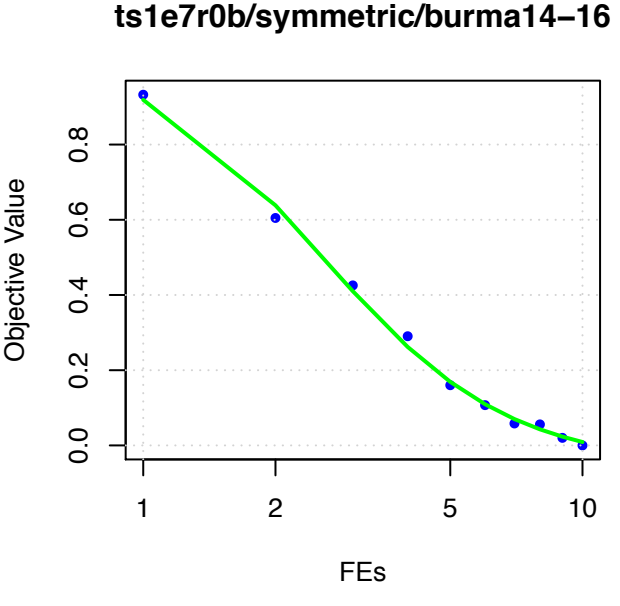
0.8
1.2
1
2
5
FEs


ts1e7r0b/symmetric/burma14−16
Objective Value
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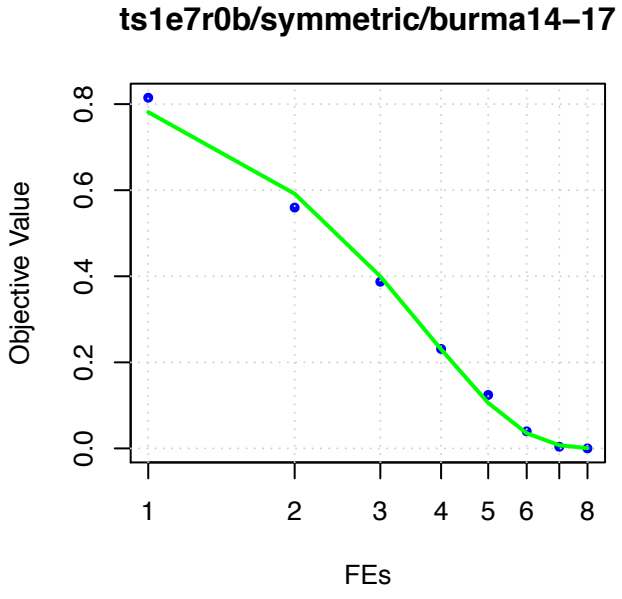
0.4
0.6
0.8
1
2
5
10
FEs


ts1e7r0b/symmetric/burma14−17
Objective Value
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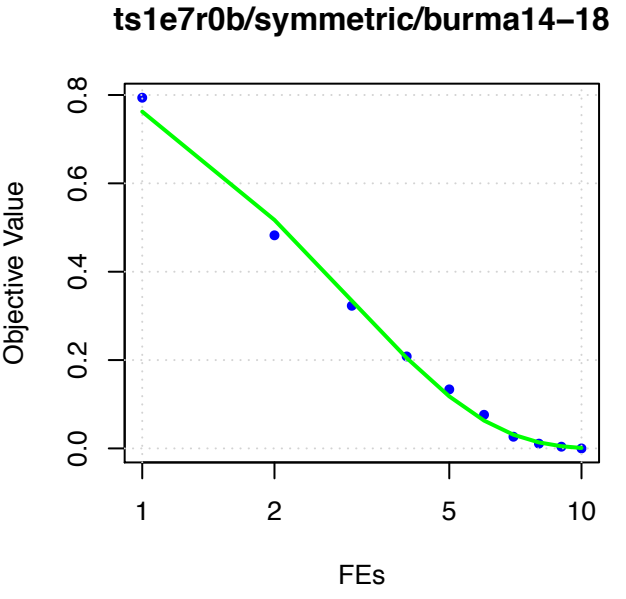
0.4
0.6
0.8
1
2
3
4
5
6
8
FEs


ts1e7r0b/symmetric/burma14−18
Objective Value
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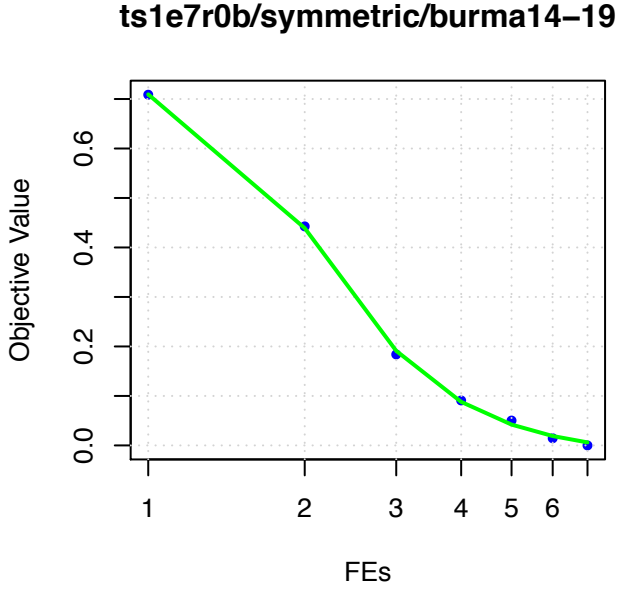
0.4
0.6
0.8
1
2
5
10
FEs


ts1e7r0b/symmetric/burma14−19
Objective Value
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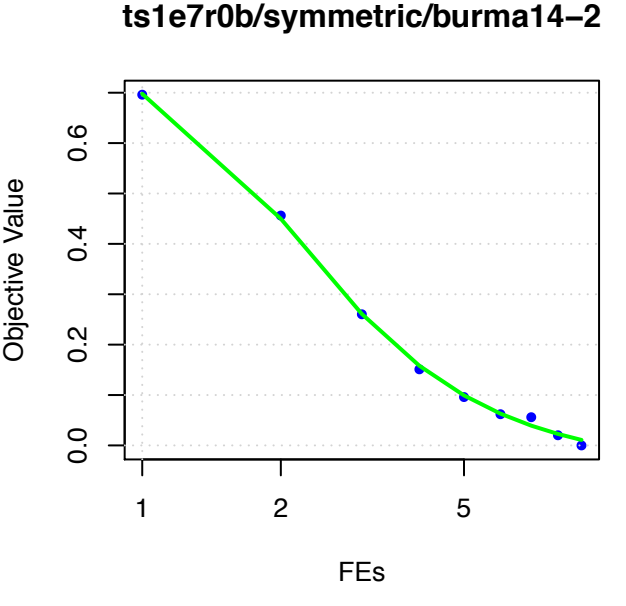
0.4
0.6
1
2
3
4
5
6
FEs


ts1e7r0b/symmetric/burma14−2
Objective Value
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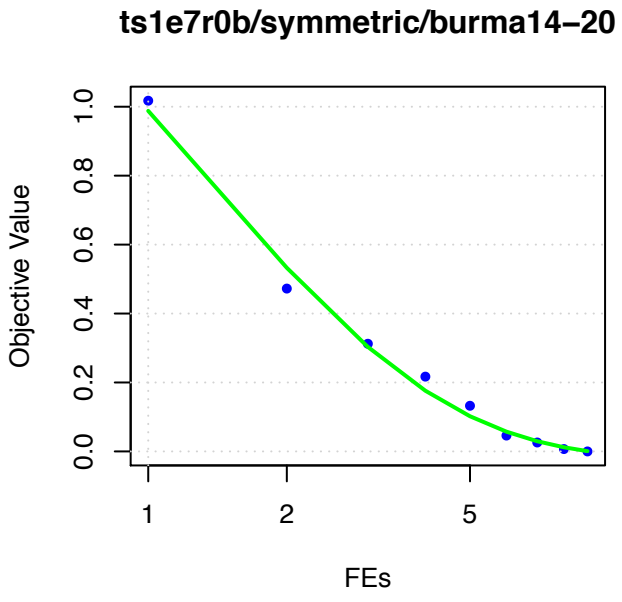
0.4
0.6
1
2
5
FEs


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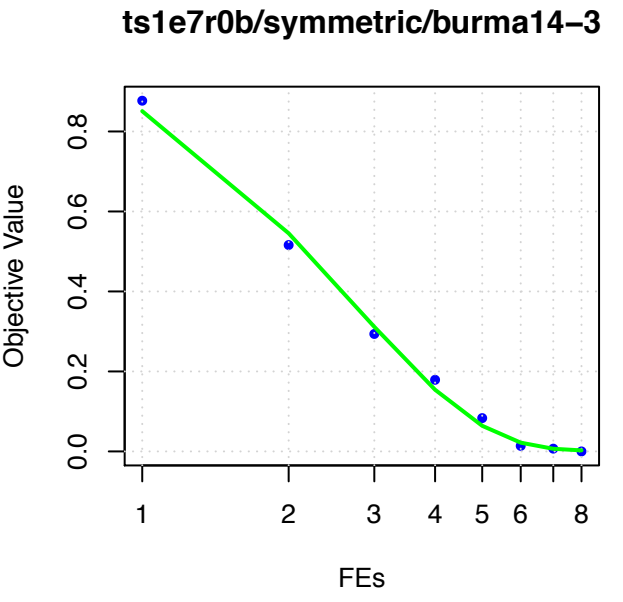
0.4
0.6
0.8
1.0
1
2
5
FEs


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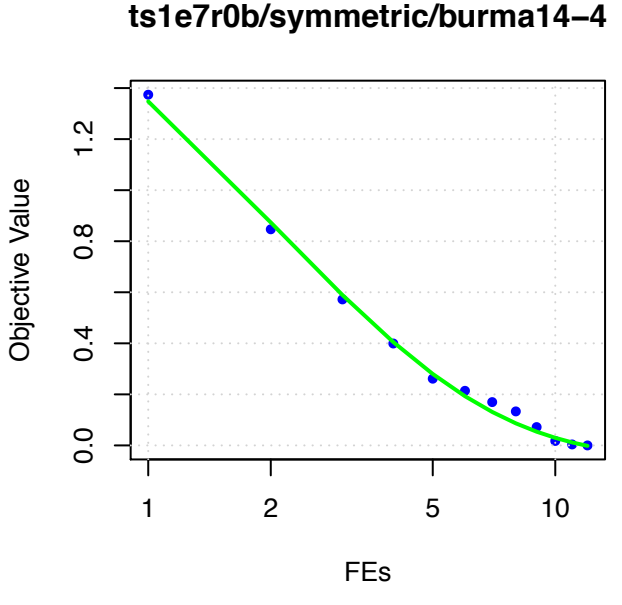
0.2
0.4
0.6
0.8
1
2
3
4
5
6
8
FEs


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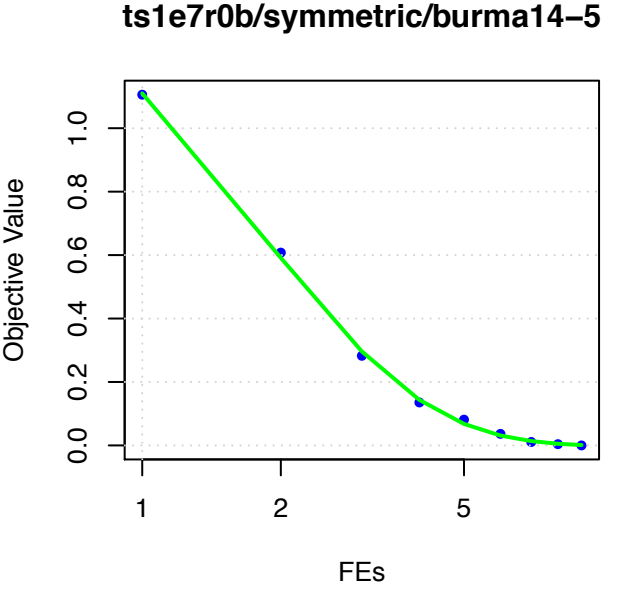
0.4
0.8
1.2
1
2
5
10
FEs


ts1e7r0b/symmetric/burma14−5
Objective Value
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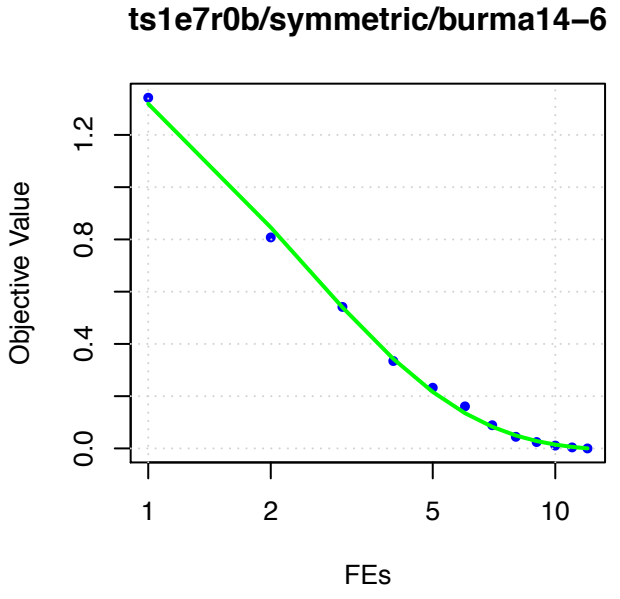
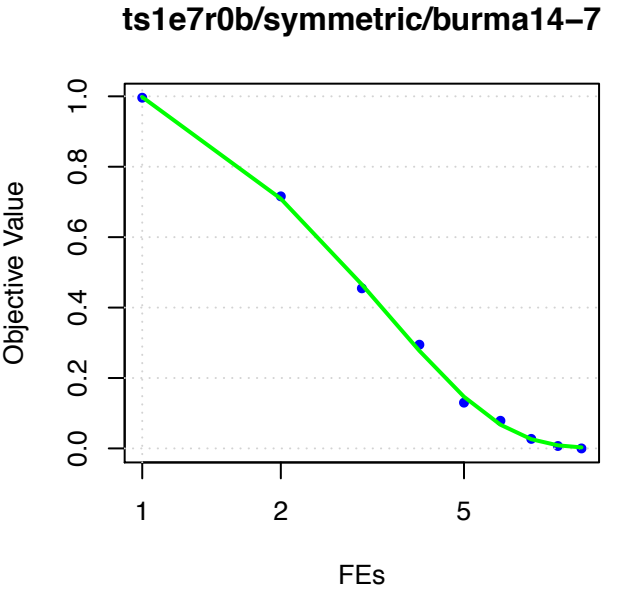
0.2
0.4
0.6
0.8
1.0
1
2
5
FEs


ts1e7r0b/symmetric/burma14−6
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
FEs


ts1e7r0b/symmetric/burma14−7
Objective Value
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0.6
0.8
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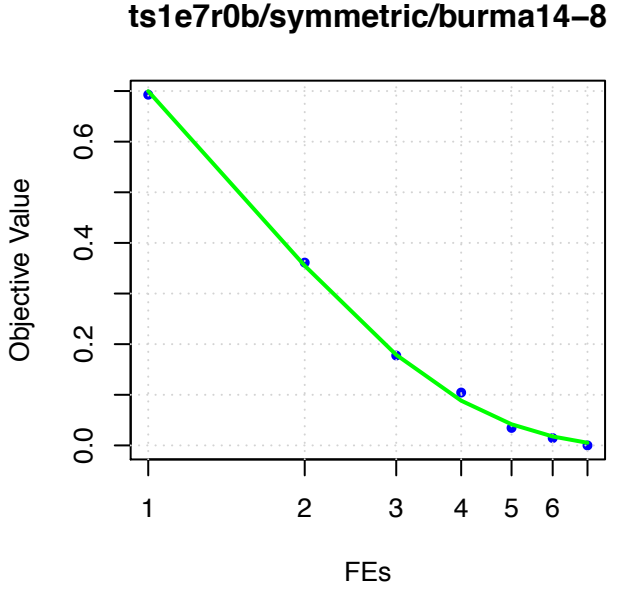
1
2
5
FEs


ts1e7r0b/symmetric/burma14−8
Objective Value
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0.4
0.6
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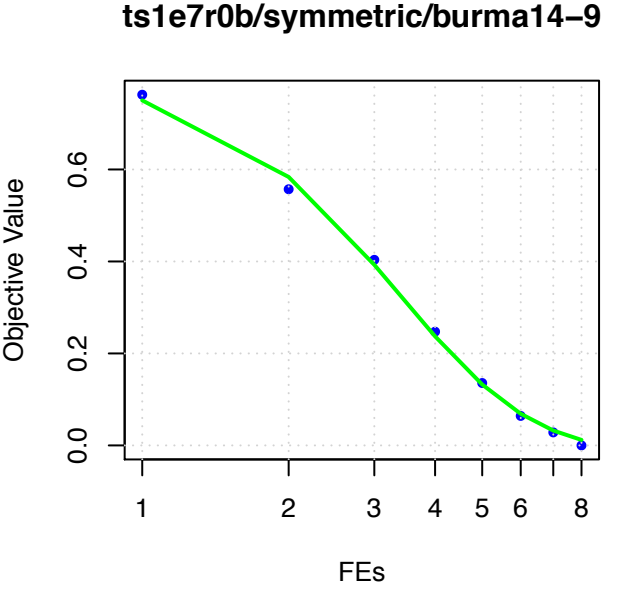
3
4
5
6
FEs


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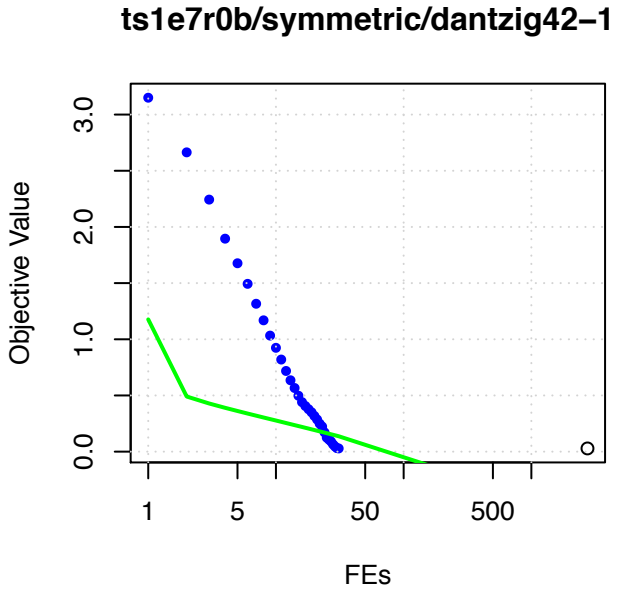
0.4
0.6
1
2
3
4
5
6
8
FEs


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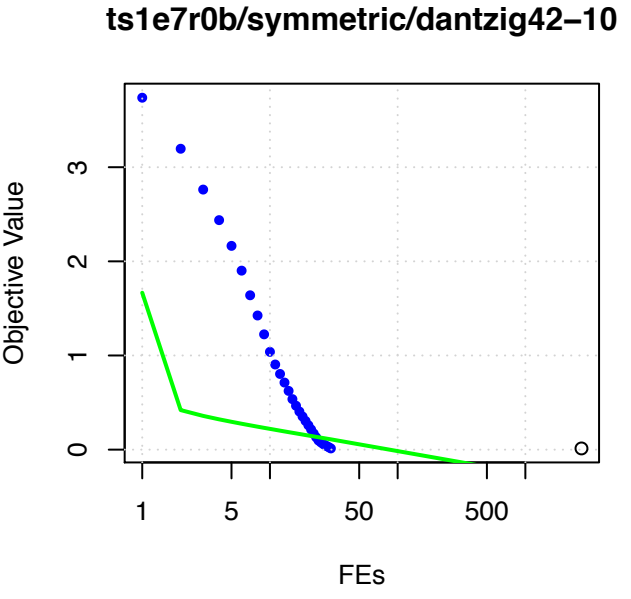
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/dantzig42−10
Objective Value
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2
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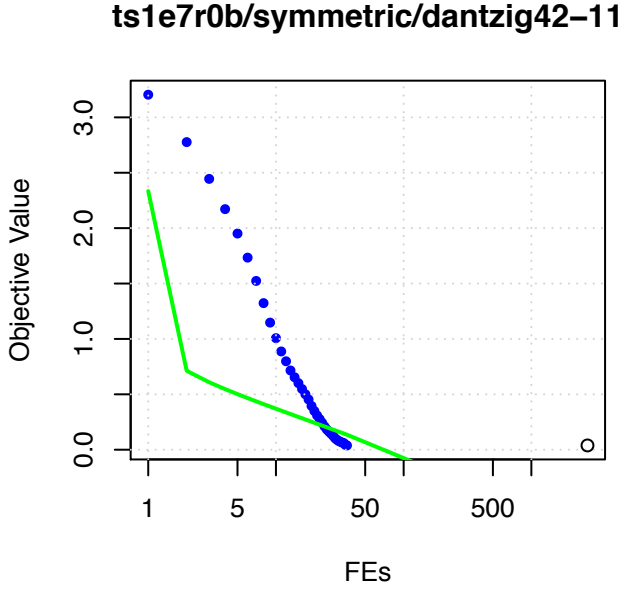
1
5
50
500
FEs


ts1e7r0b/symmetric/dantzig42−11
Objective Value
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2.0
3.0
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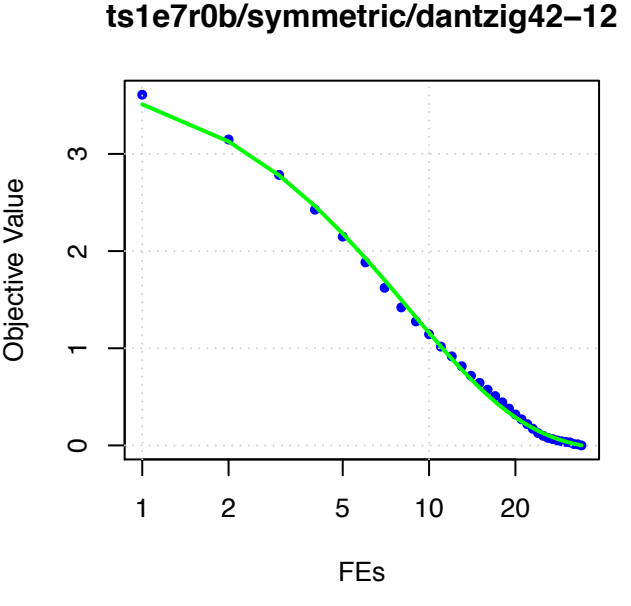
500
FEs


ts1e7r0b/symmetric/dantzig42−12
Objective Value
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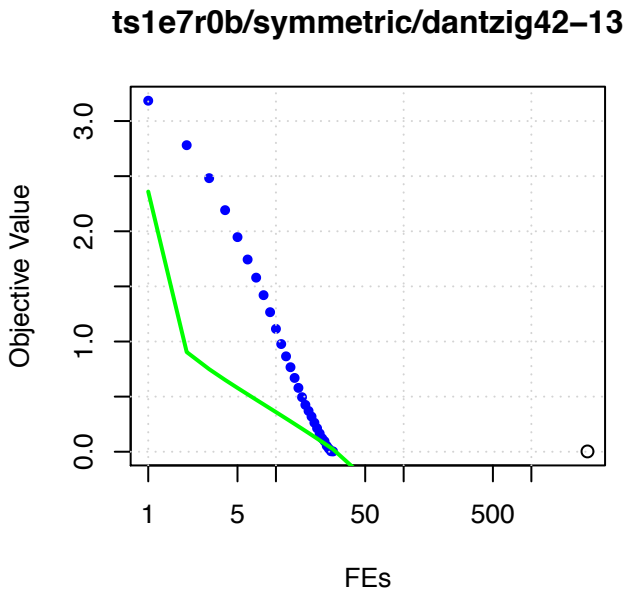
2
3
1
2
5
10
20
FEs


ts1e7r0b/symmetric/dantzig42−13
Objective Value
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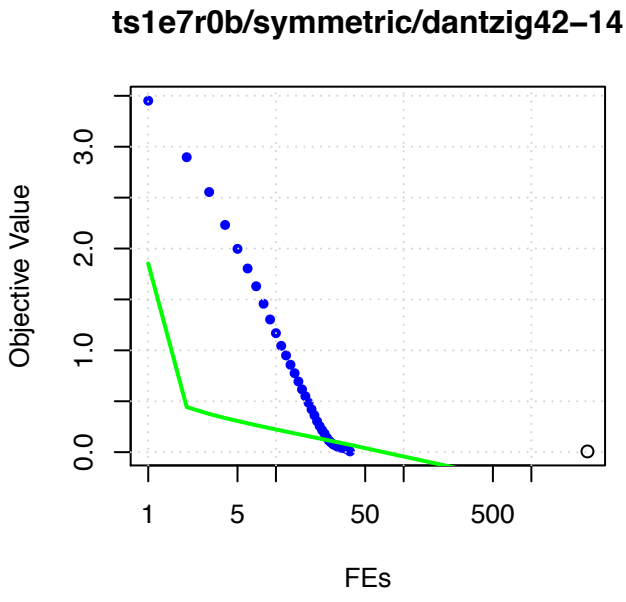
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/dantzig42−14
Objective Value
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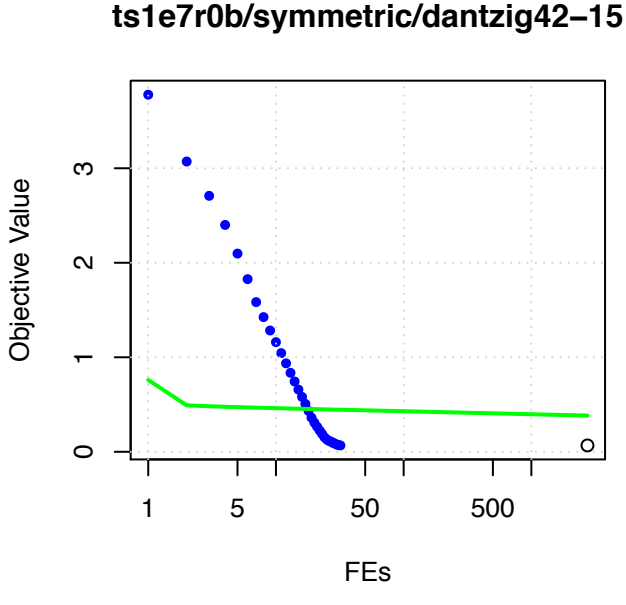
2.0
3.0
1
5
50
500
FEs


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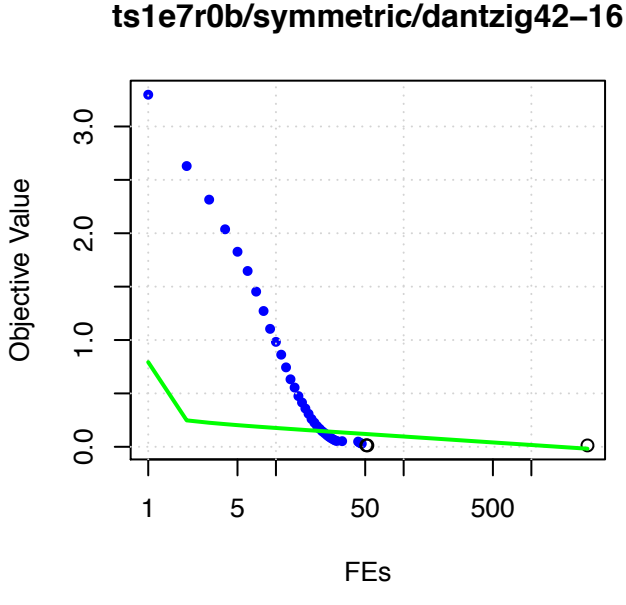
1
2
3
1
5
50
500
FEs


ts1e7r0b/symmetric/dantzig42−16
Objective Value
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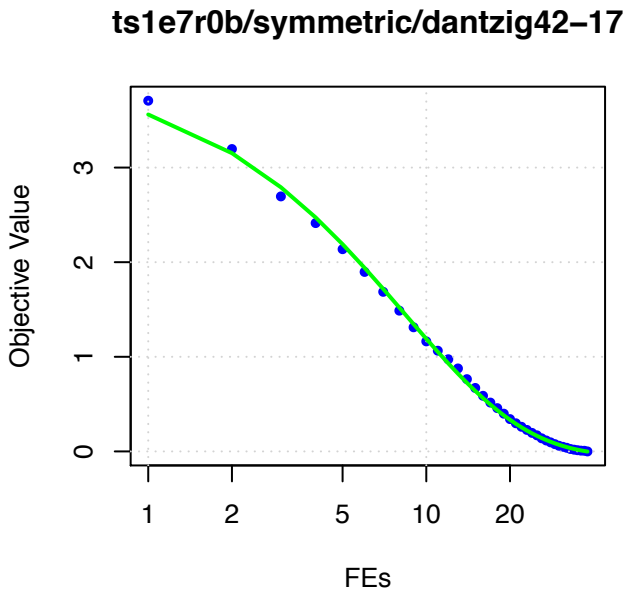
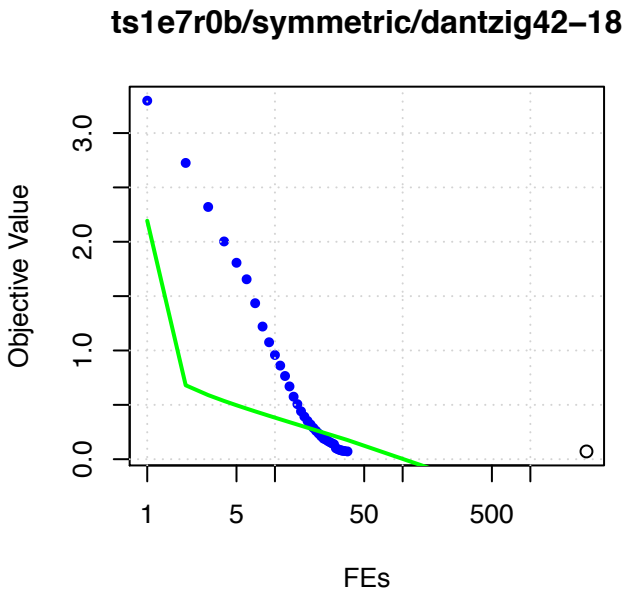
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/dantzig42−17
Objective Value
0
1
2
3
1
2
5
10
20
FEs


ts1e7r0b/symmetric/dantzig42−18
Objective Value
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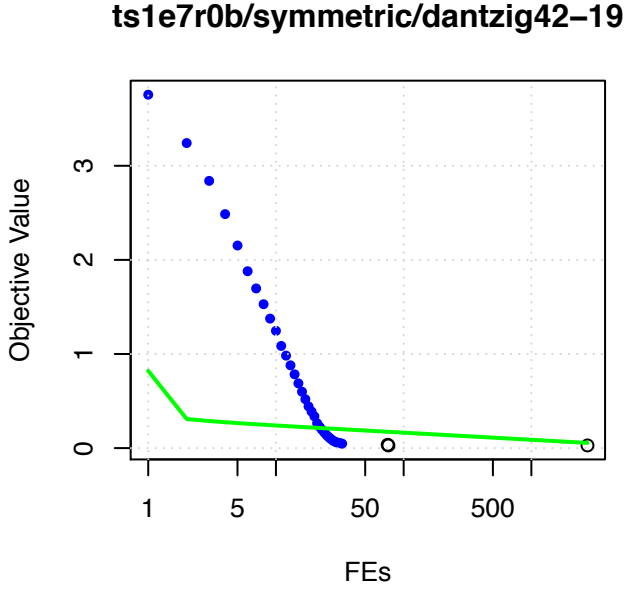
3.0
1
5
50
500
FEs


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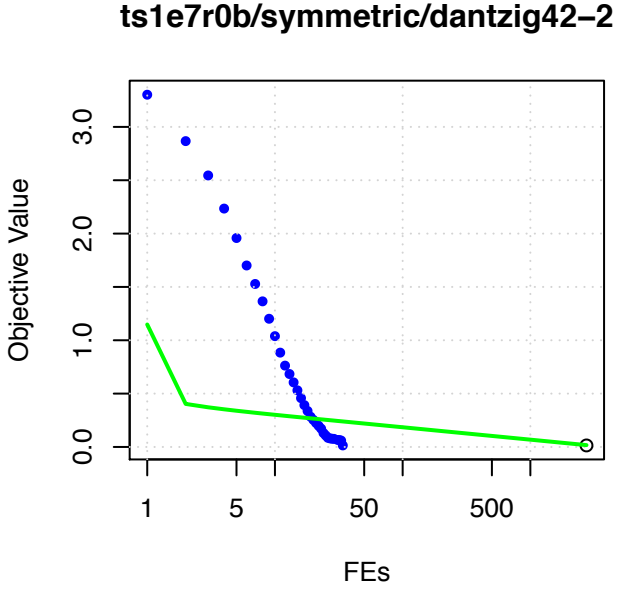
1
2
3
1
5
50
500
FEs


ts1e7r0b/symmetric/dantzig42−2
Objective Value
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3.0
1
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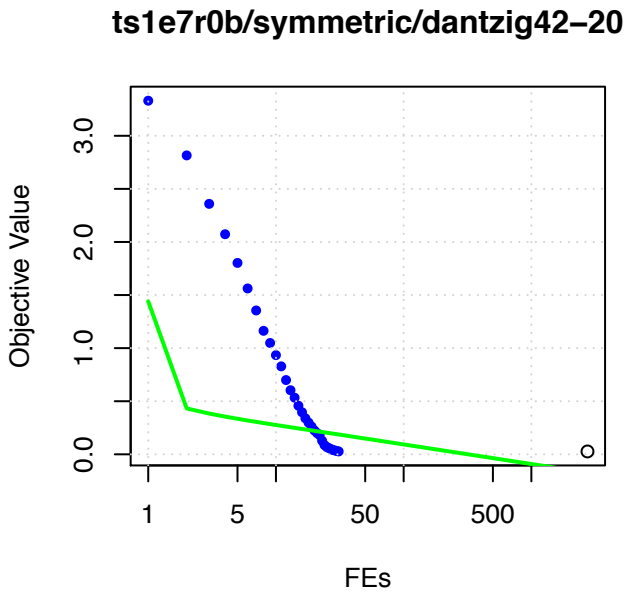
500
FEs


ts1e7r0b/symmetric/dantzig42−20
Objective Value
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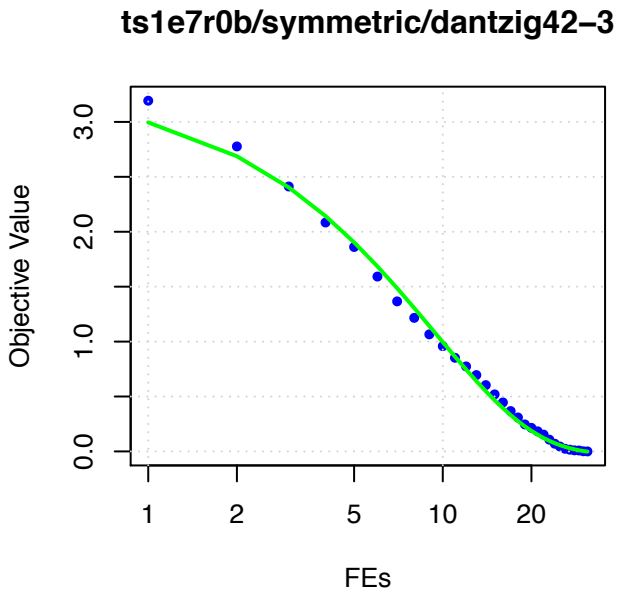
2.0
3.0
1
5
50
500
FEs


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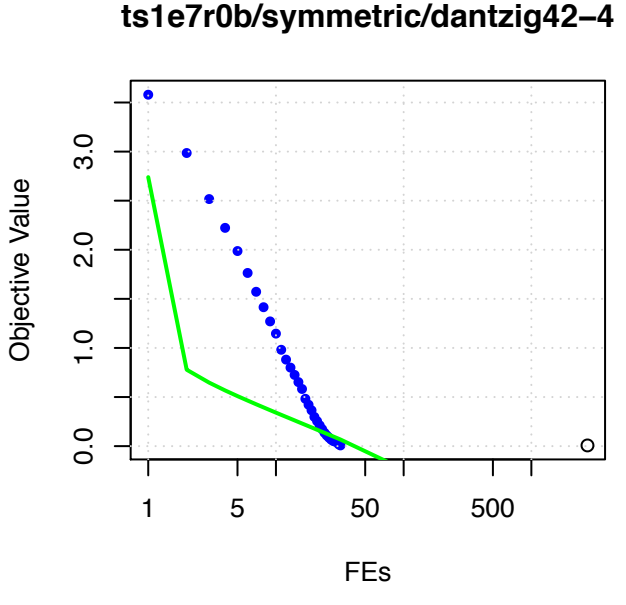
1.0
2.0
3.0
1
2
5
10
20
FEs


ts1e7r0b/symmetric/dantzig42−4
Objective Value
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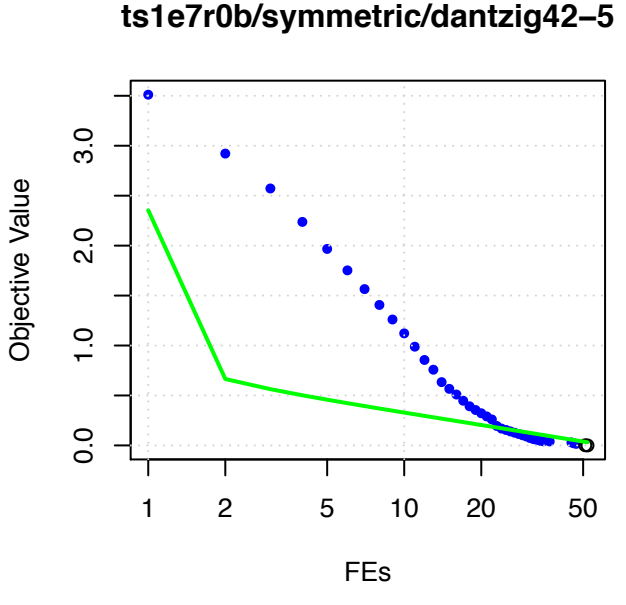
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/dantzig42−5
Objective Value
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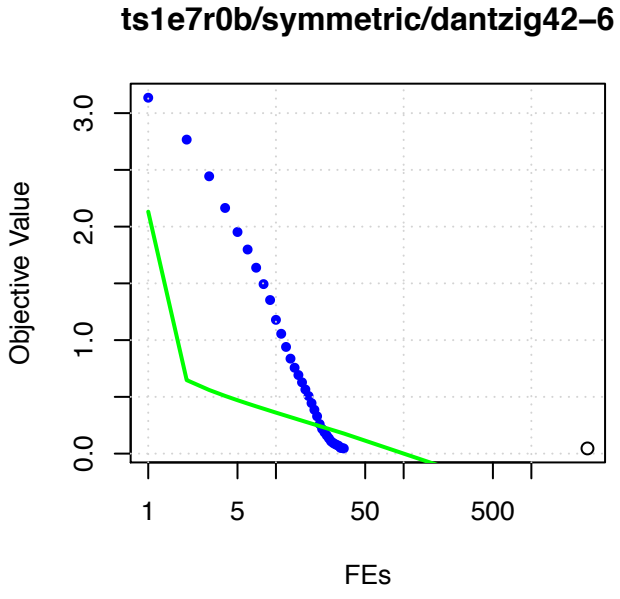
2.0
3.0
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/dantzig42−6
Objective Value
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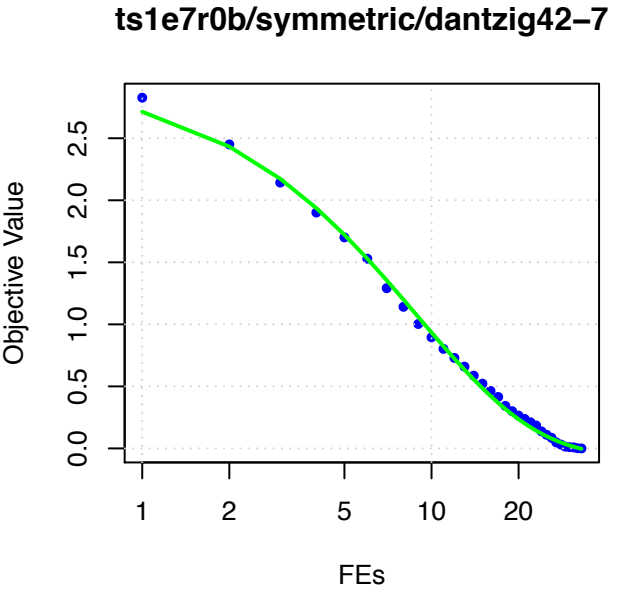
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/dantzig42−7
Objective Value
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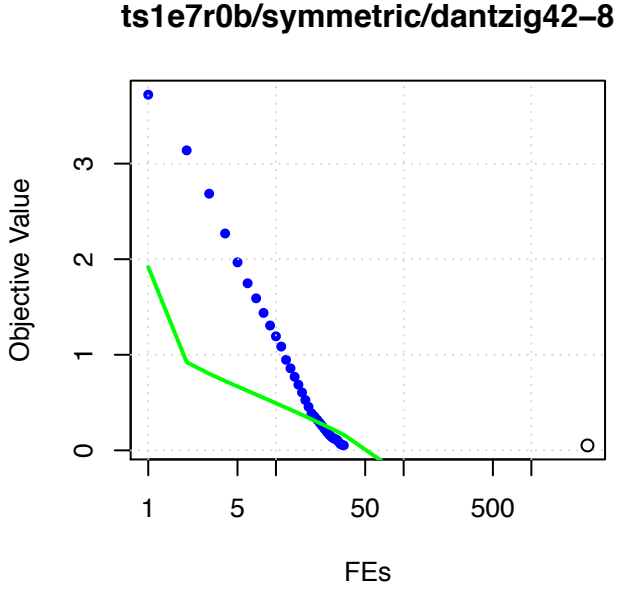
1.5
2.0
2.5
1
2
5
10
20
FEs


ts1e7r0b/symmetric/dantzig42−8
Objective Value
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2
3
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5
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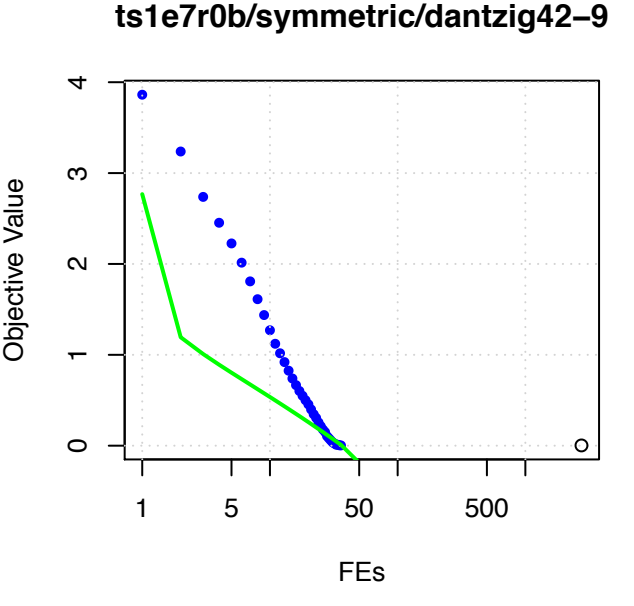
500
FEs


ts1e7r0b/symmetric/dantzig42−9
Objective Value
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3
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1
5
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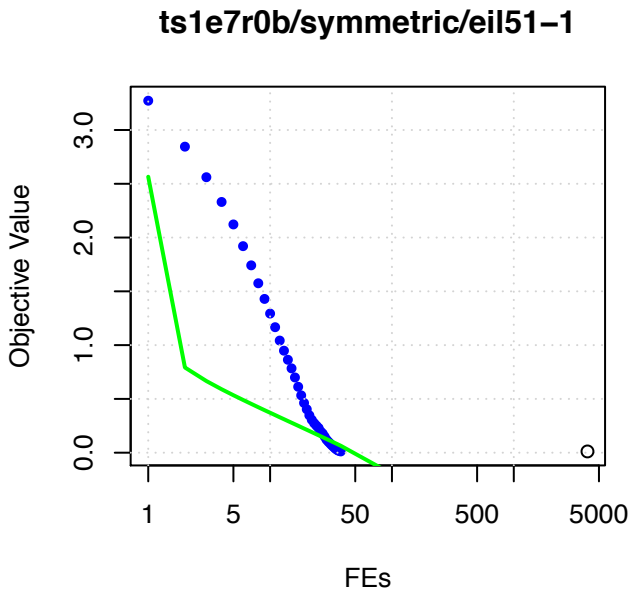
500
FEs


ts1e7r0b/symmetric/eil51−1
Objective Value
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3.0
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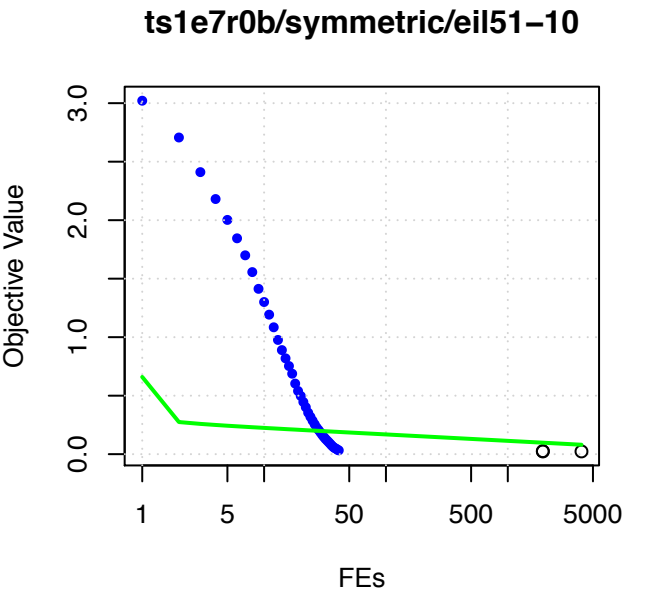
500
5000
FEs


ts1e7r0b/symmetric/eil51−10
Objective Value
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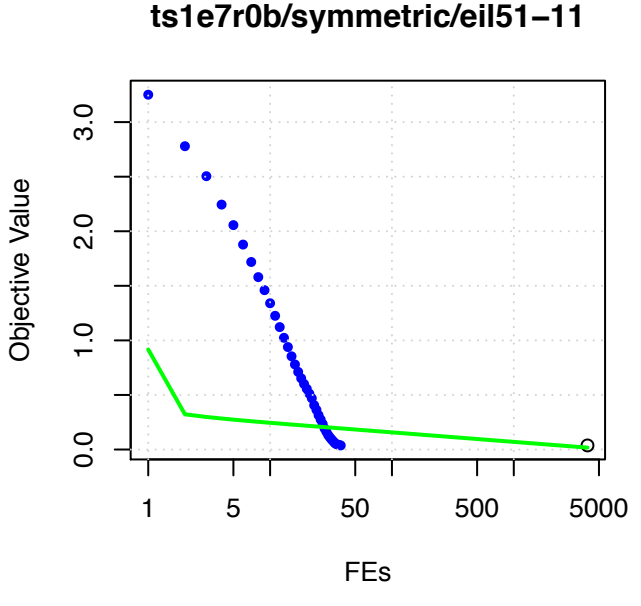
FEs


ts1e7r0b/symmetric/eil51−11
Objective Value
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3.0
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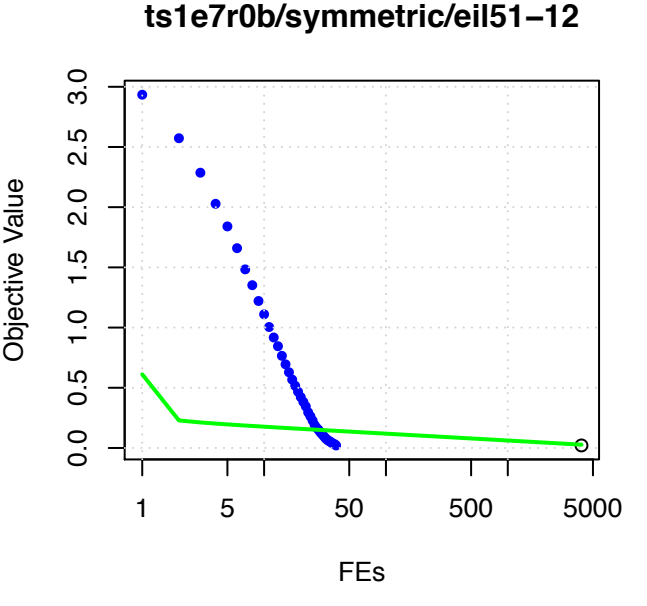
FEs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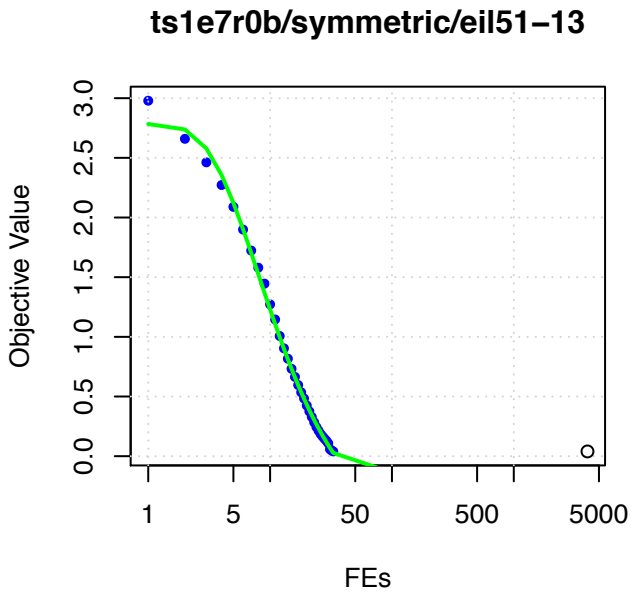
5000
FEs


ts1e7r0b/symmetric/eil51−13
Objective Value
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2.5
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500
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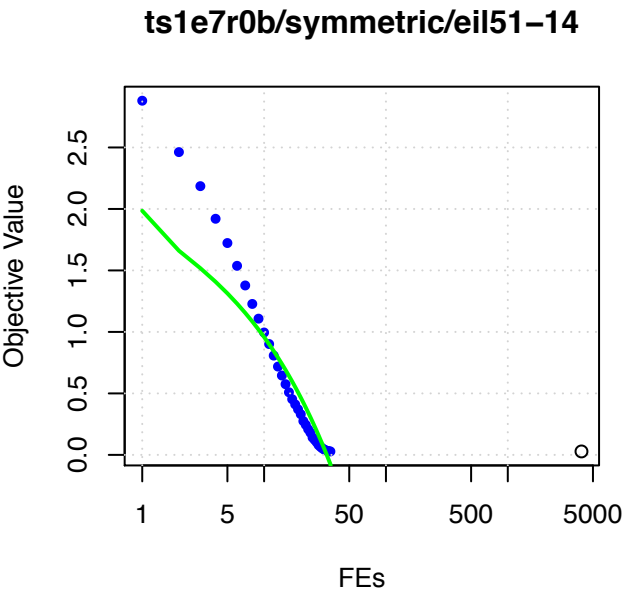
FEs


ts1e7r0b/symmetric/eil51−14
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1
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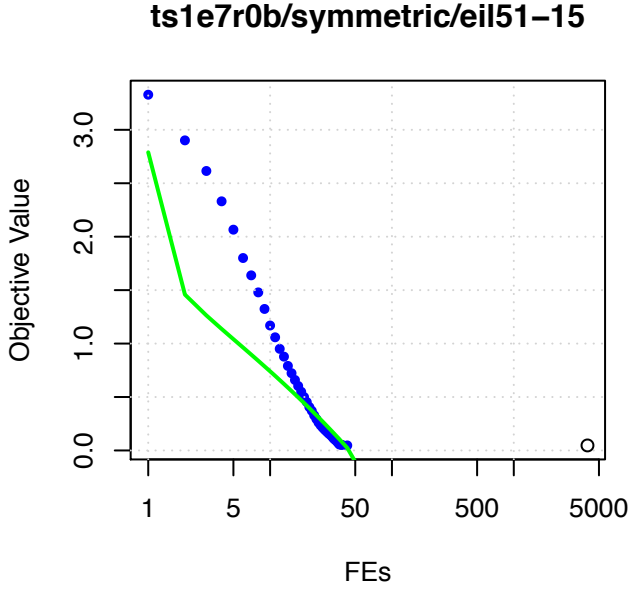
FEs


ts1e7r0b/symmetric/eil51−15
Objective Value
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2.0
3.0
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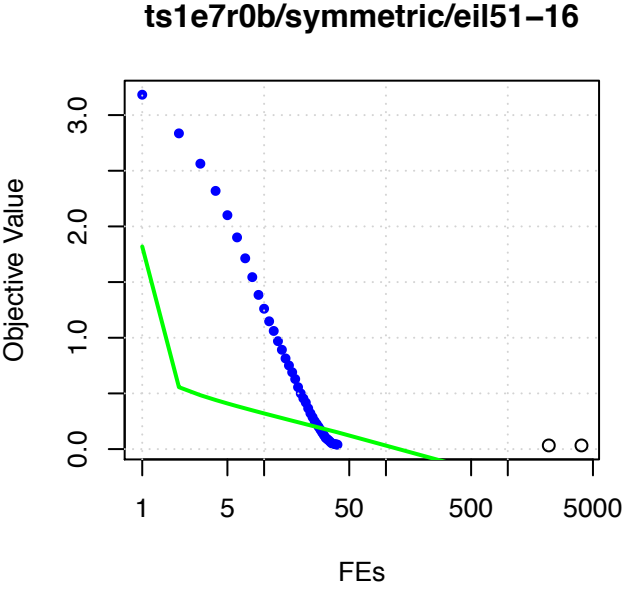
500
5000
FEs


ts1e7r0b/symmetric/eil51−16
Objective Value
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3.0
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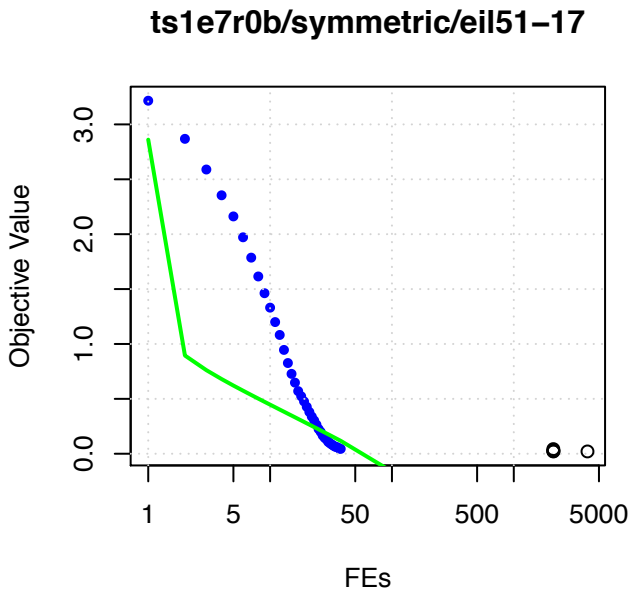
5000
FEs


ts1e7r0b/symmetric/eil51−17
Objective Value
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3.0
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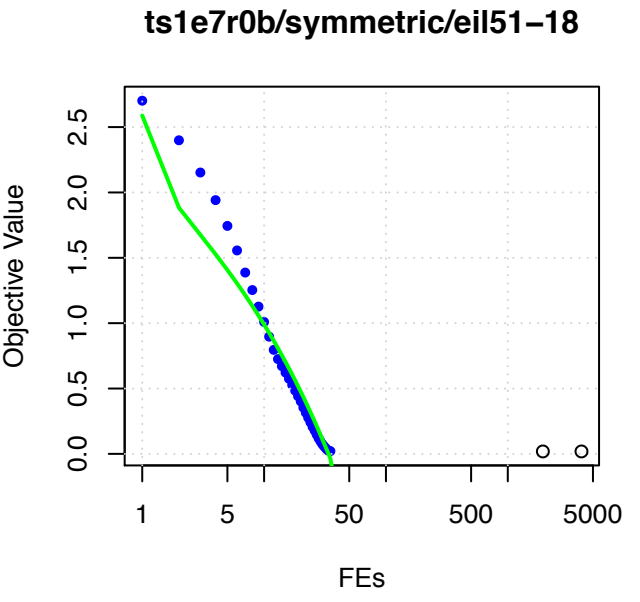
5000
FEs


ts1e7r0b/symmetric/eil51−18
Objective Value
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1.5
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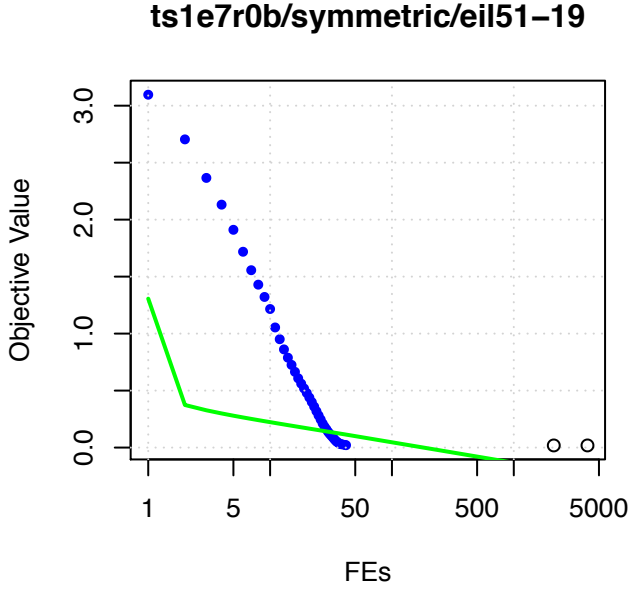
2.5
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/eil51−19
Objective Value
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3.0
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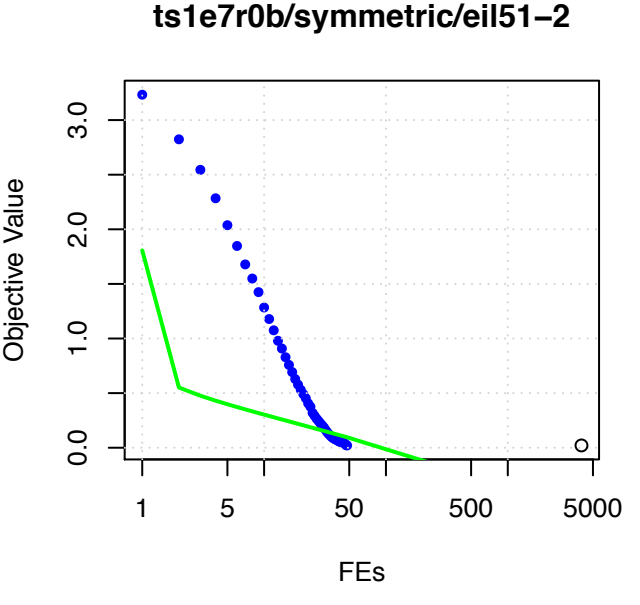
FEs


ts1e7r0b/symmetric/eil51−2
Objective Value
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2.0
3.0
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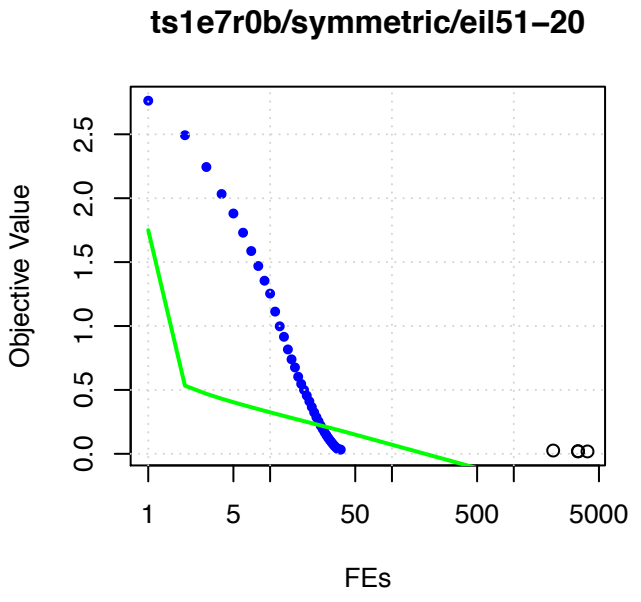
500
5000
FEs


ts1e7r0b/symmetric/eil51−20
Objective Value
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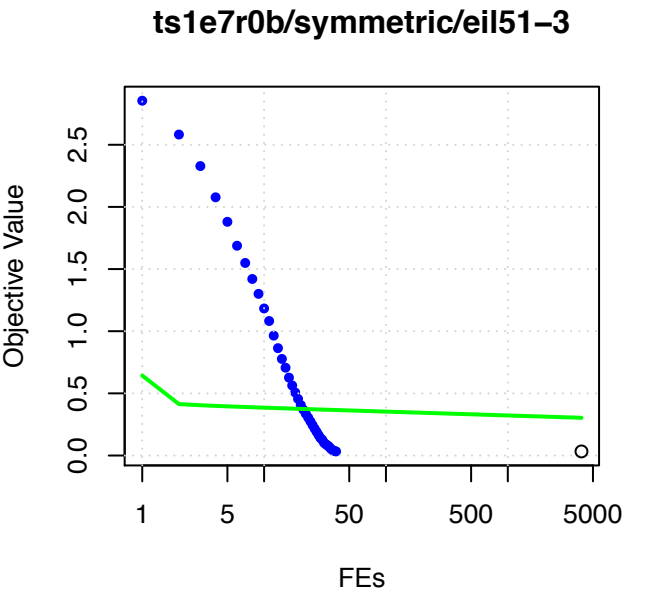
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/eil51−3
Objective Value
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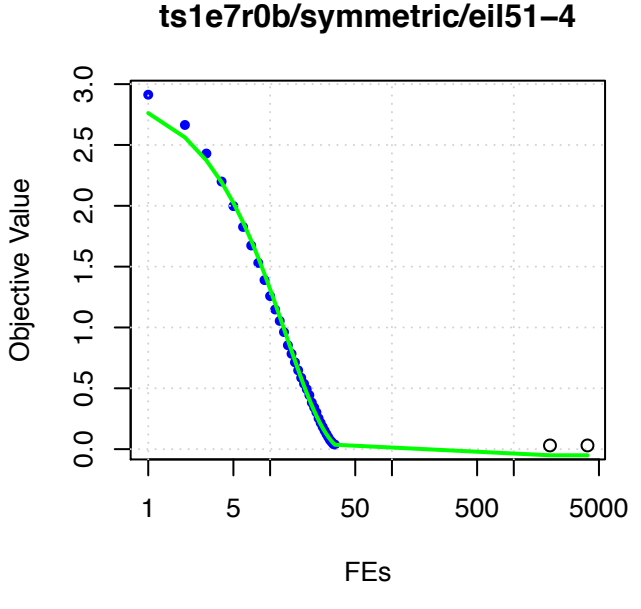
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/eil51−4
Objective Value
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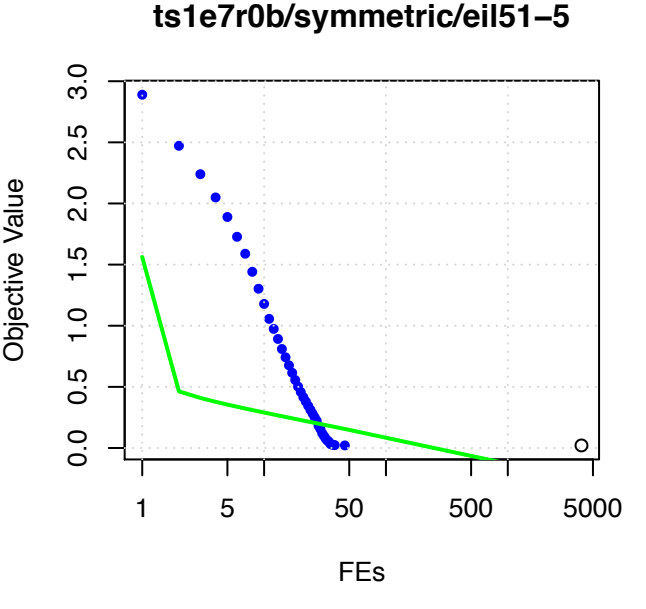
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/eil51−5
Objective Value
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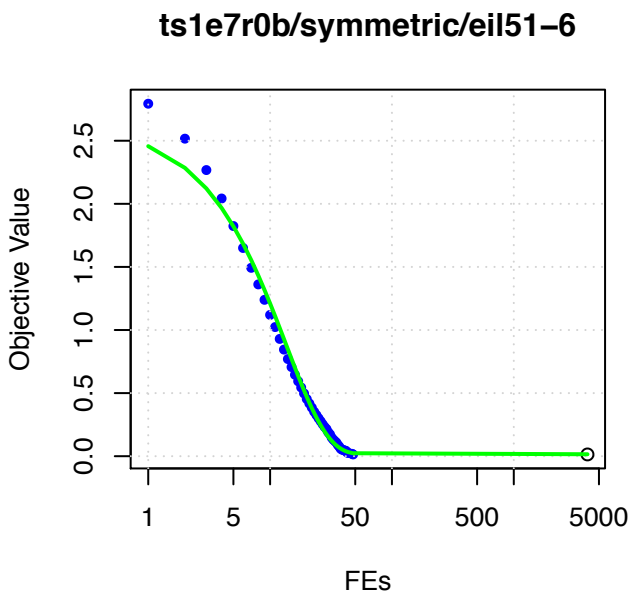
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/eil51−6
Objective Value
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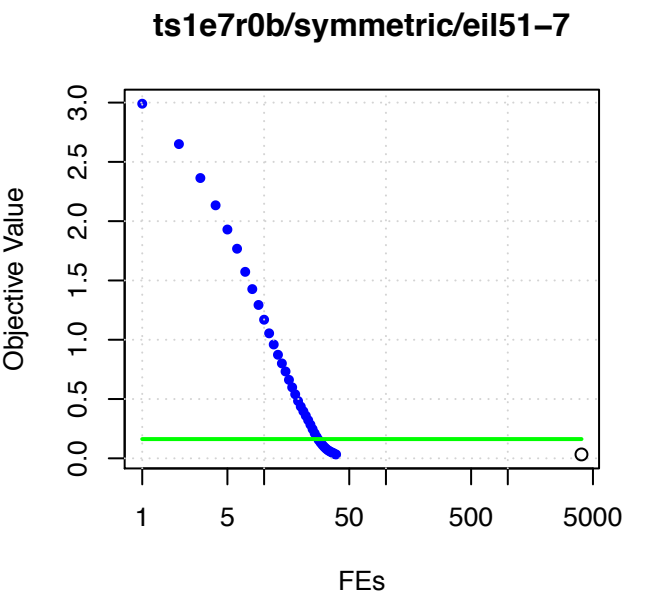
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/eil51−7
Objective Value
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1.0
1.5
2.0
2.5
3.0
1
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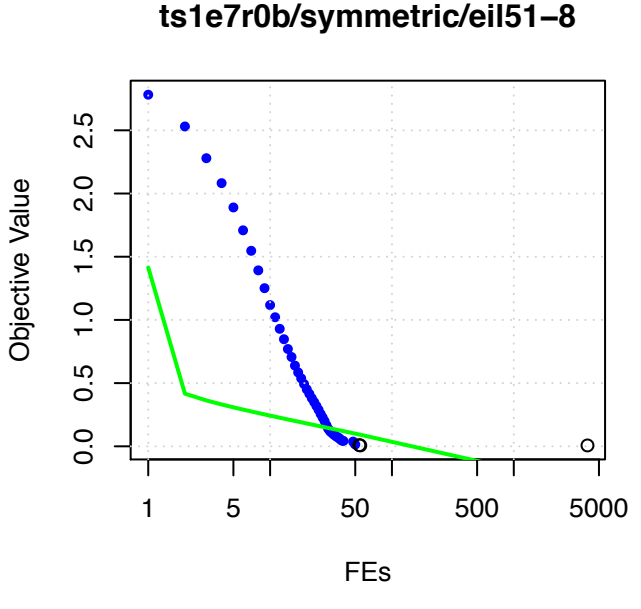
50
500
5000
FEs


ts1e7r0b/symmetric/eil51−8
Objective Value
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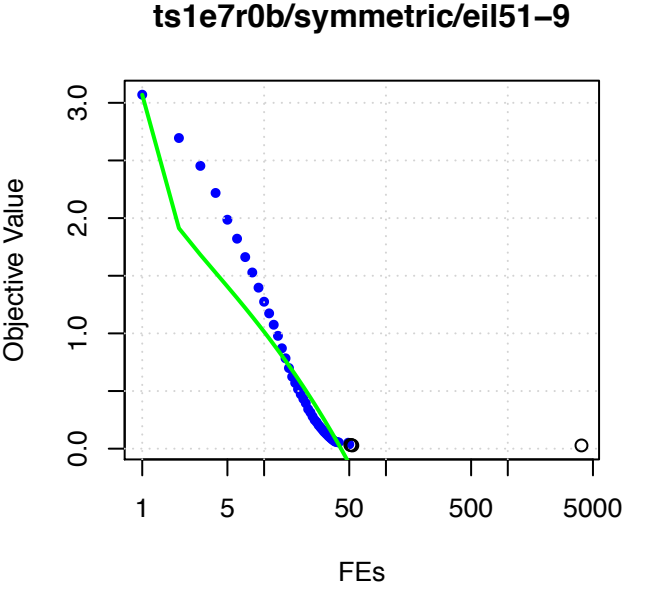
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/eil51−9
Objective Value
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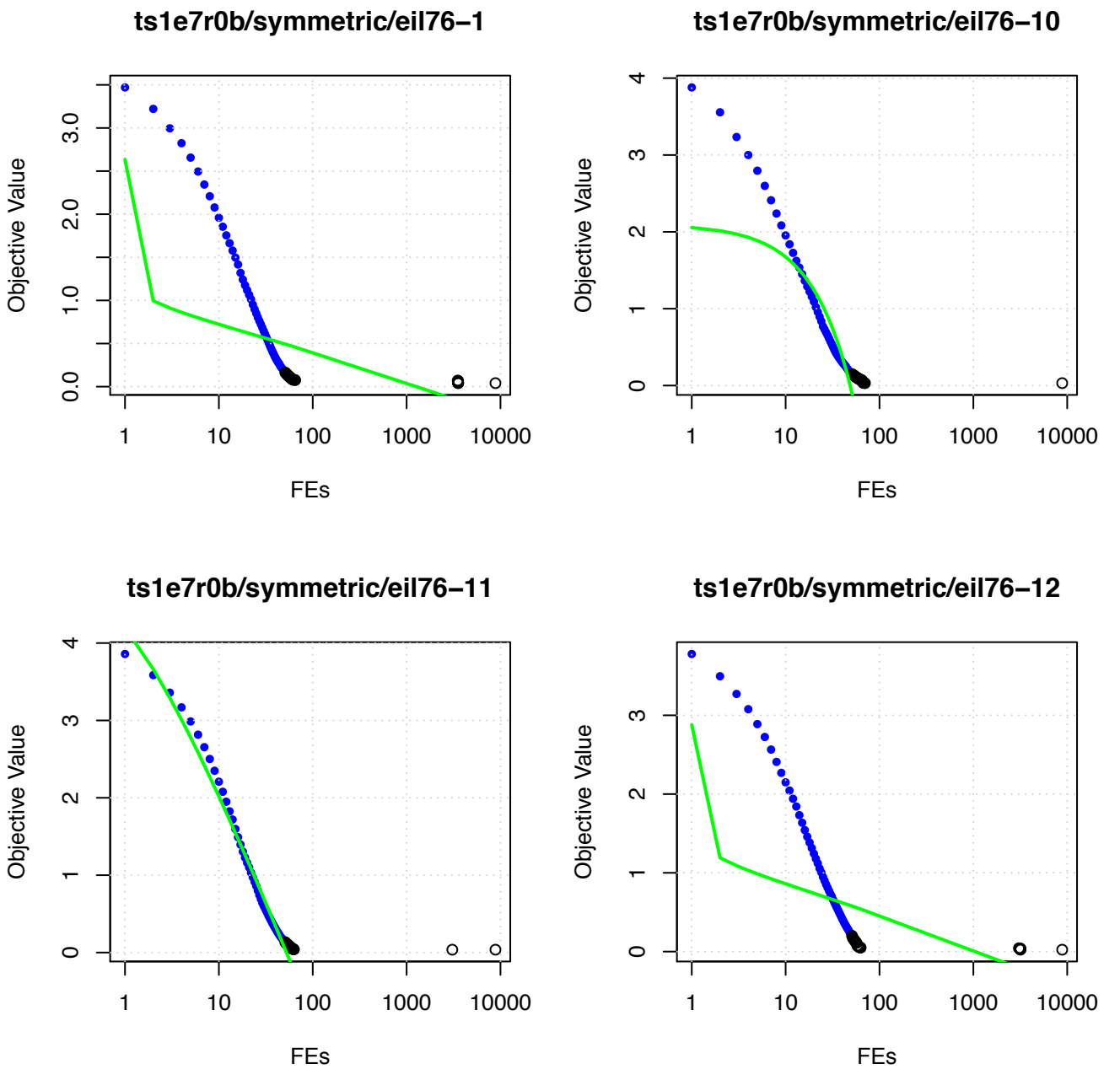
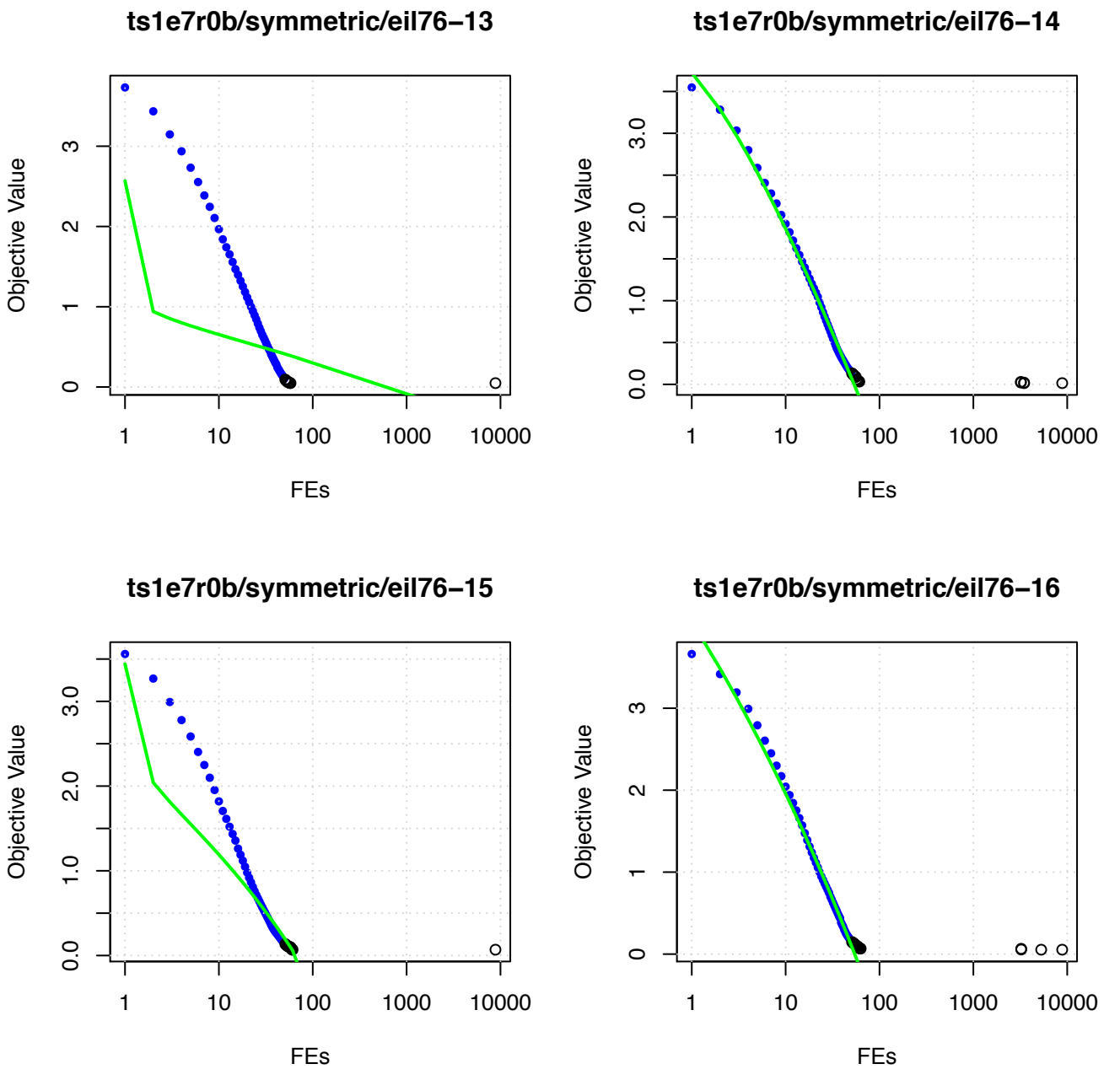
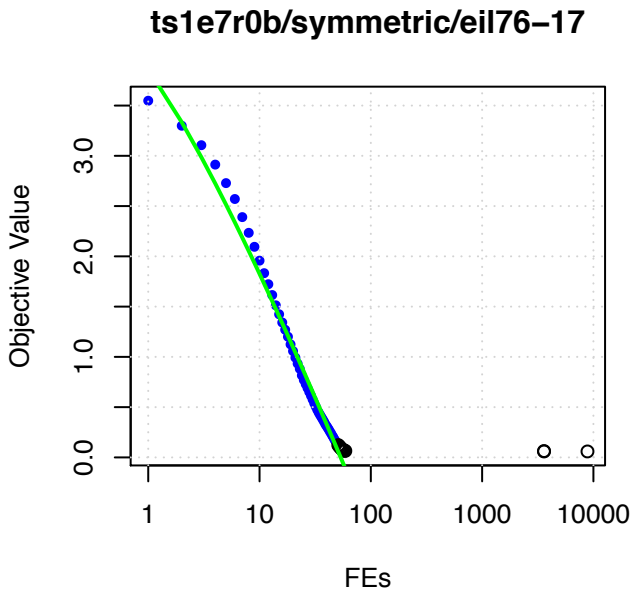
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0b/symmetric/eil76−1
ts1e7r0b/symmetric/eil76−10
ts1e7r0b/symmetric/eil76−11
ts1e7r0b/symmetric/eil76−12
Objective Value
FEs
0.0
1.0
2.0
3.0
0
1
2
3
4
1
10
100
1000
10000


ts1e7r0b/symmetric/eil76−13
ts1e7r0b/symmetric/eil76−14
ts1e7r0b/symmetric/eil76−15
ts1e7r0b/symmetric/eil76−16
Objective Value
FEs
0
1
2
3
0.0
1.0
2.0
3.0
1
10
100
1000
10000


ts1e7r0b/symmetric/eil76−17
Objective Value
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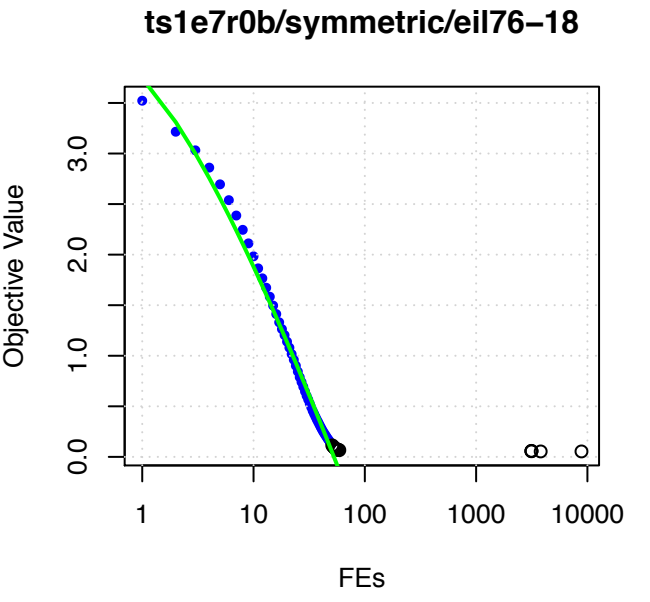
1.0
2.0
3.0
1
10
100
1000
10000
FEs


ts1e7r0b/symmetric/eil76−18
Objective Value
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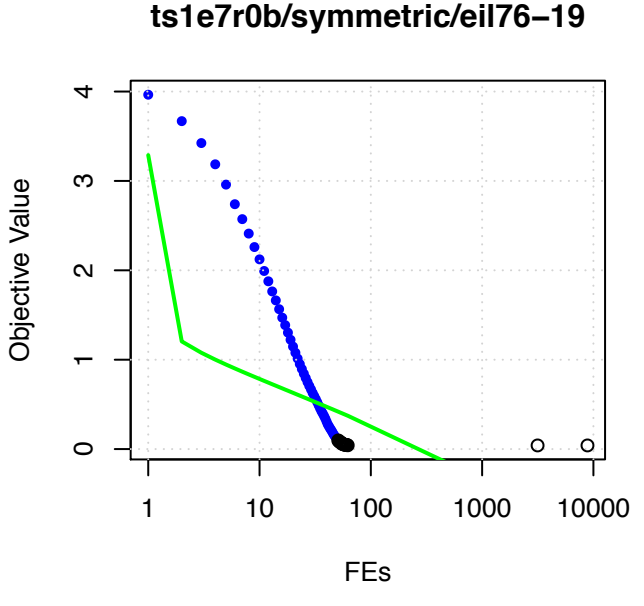
1.0
2.0
3.0
1
10
100
1000
10000
FEs


ts1e7r0b/symmetric/eil76−19
Objective Value
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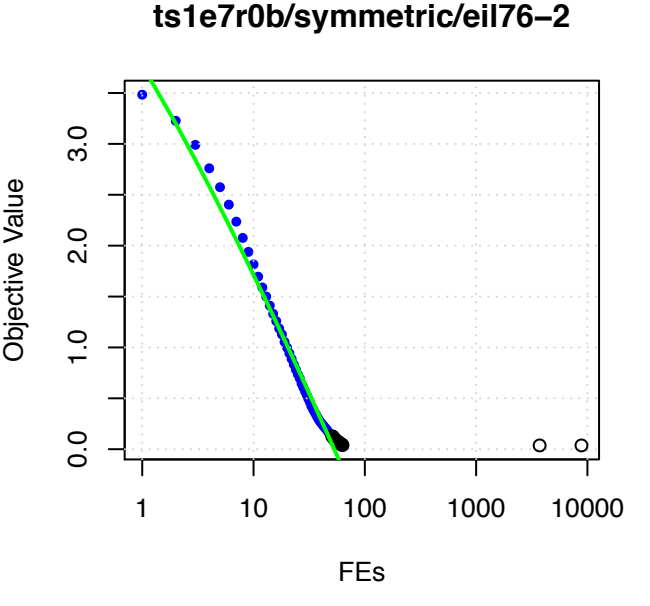
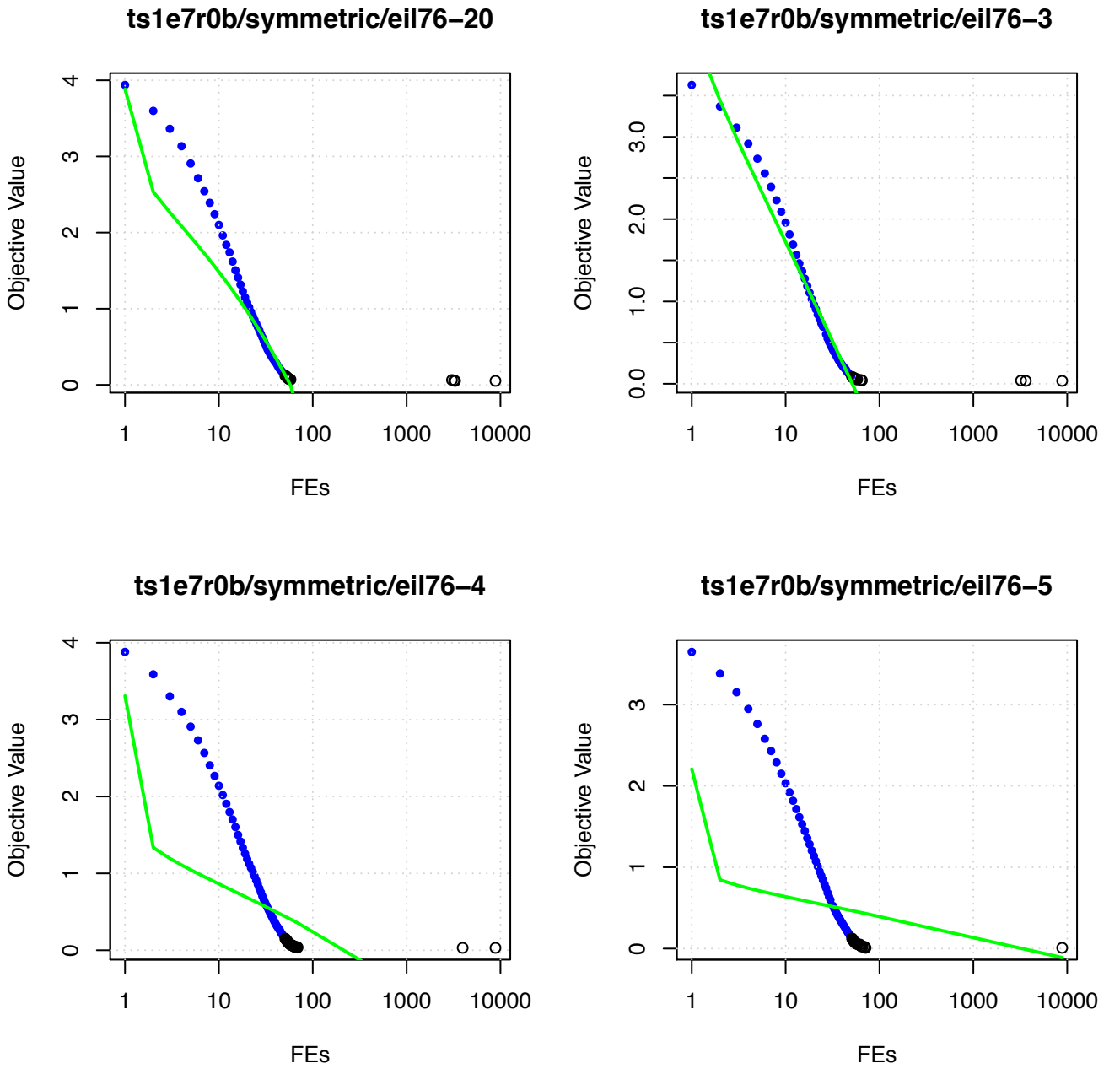
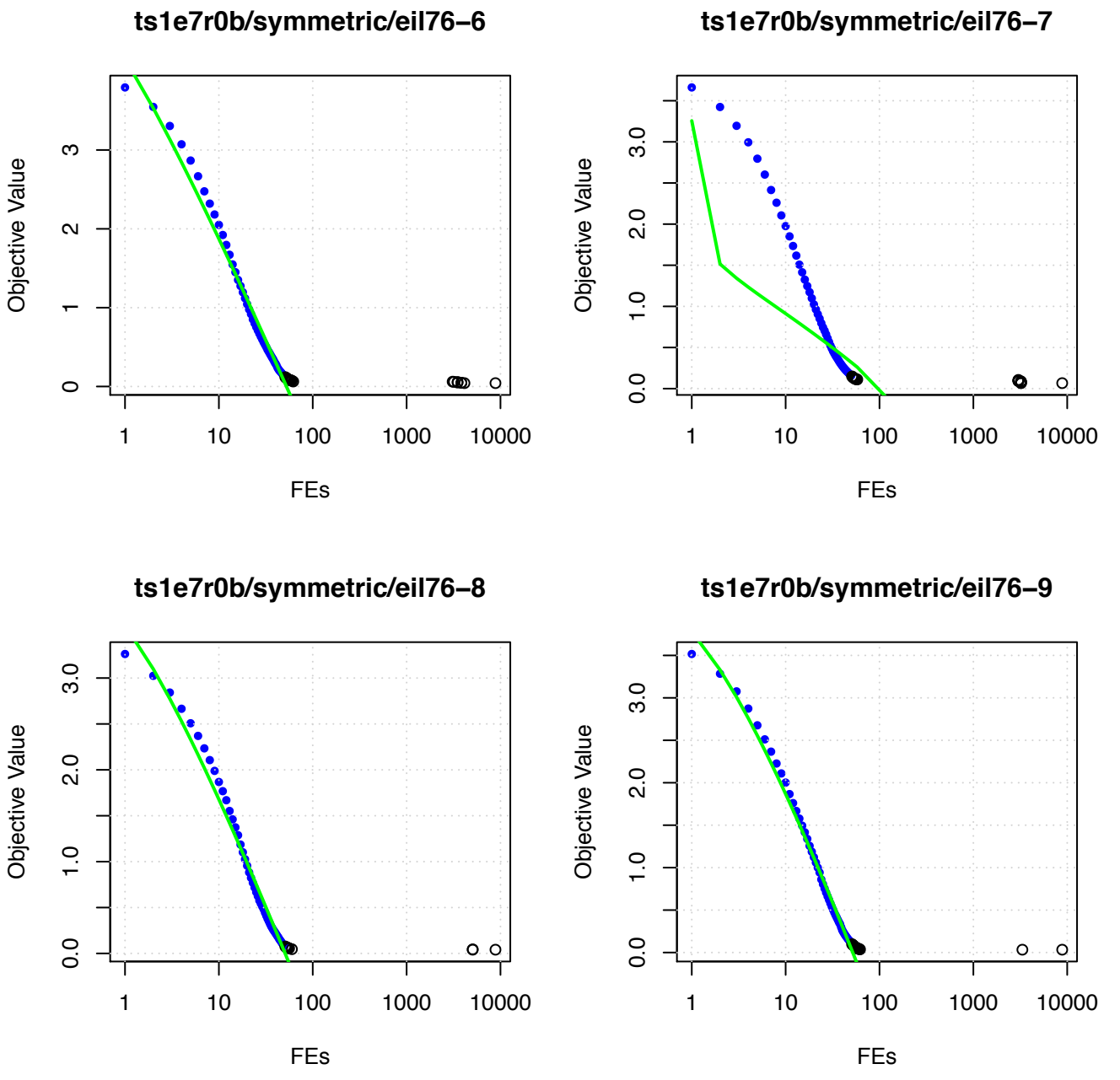
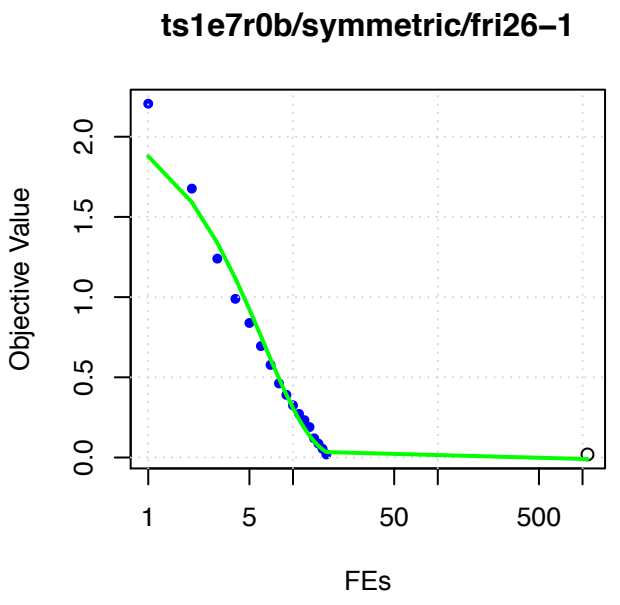
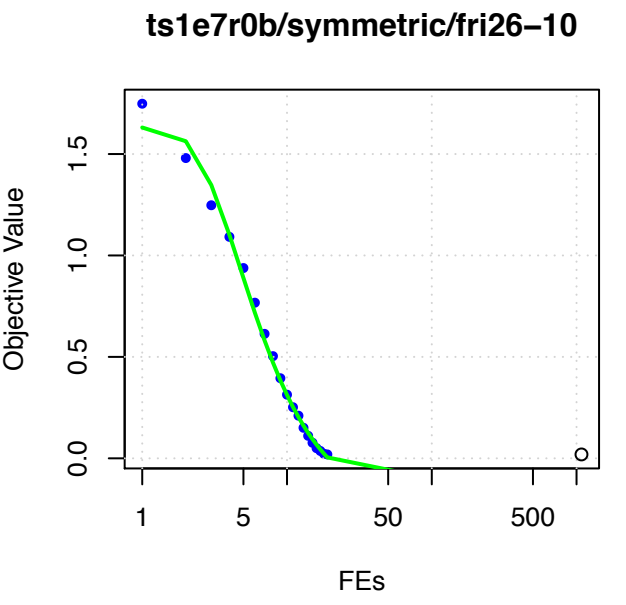
1
2
3
4
1
10
100
1000
10000
FEs


ts1e7r0b/symmetric/eil76−2
Objective Value
0.0
1.0
2.0
3.0
1
10
100
1000
10000
FEs


ts1e7r0b/symmetric/eil76−20
ts1e7r0b/symmetric/eil76−3
ts1e7r0b/symmetric/eil76−4
ts1e7r0b/symmetric/eil76−5
Objective Value
FEs
0
1
2
3
4
0.0
1.0
2.0
3.0
1
10
100
1000
10000


ts1e7r0b/symmetric/eil76−6
ts1e7r0b/symmetric/eil76−7
ts1e7r0b/symmetric/eil76−8
ts1e7r0b/symmetric/eil76−9
Objective Value
FEs
0
1
2
3
0.0
1.0
2.0
3.0
1
10
100
1000
10000


ts1e7r0b/symmetric/fri26−1
Objective Value
0.0
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts1e7r0b/symmetric/fri26−10
Objective Value
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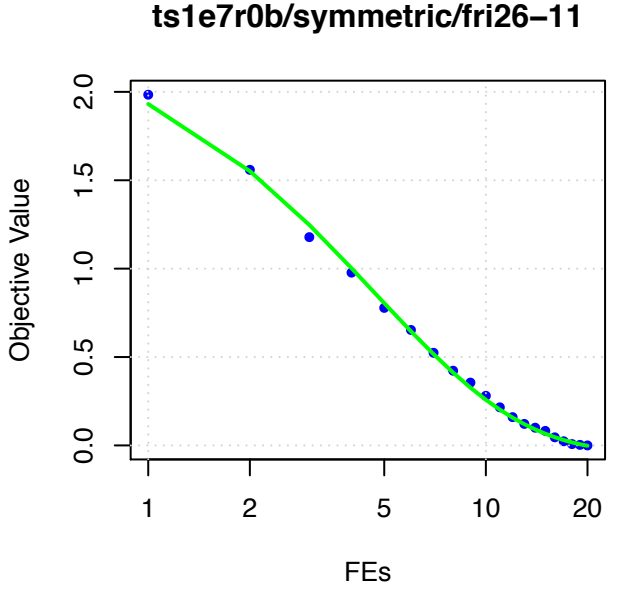
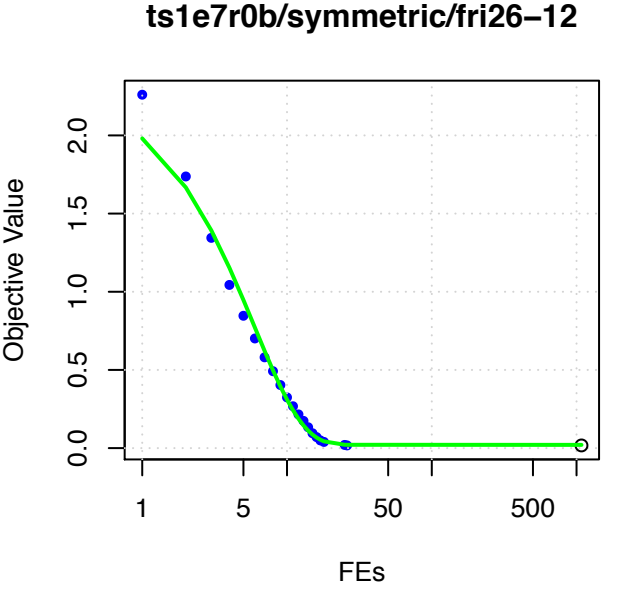
0.5
1.0
1.5
1
5
50
500
FEs


ts1e7r0b/symmetric/fri26−11
Objective Value
0.0
0.5
1.0
1.5
2.0
1
2
5
10
20
FEs


ts1e7r0b/symmetric/fri26−12
Objective Value
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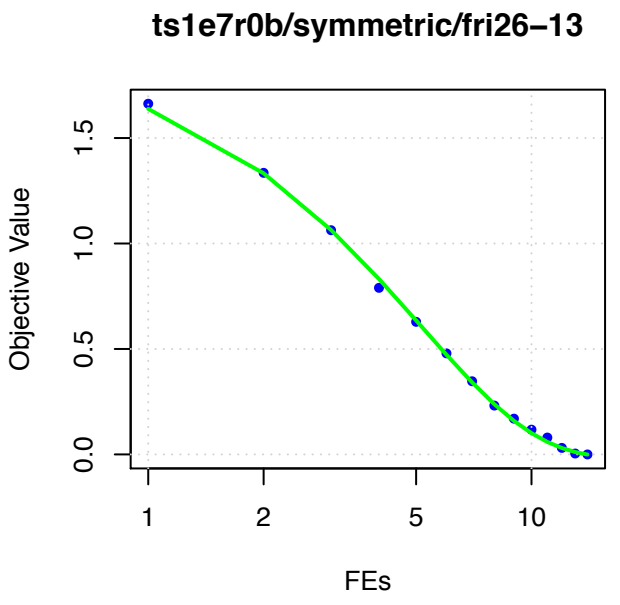
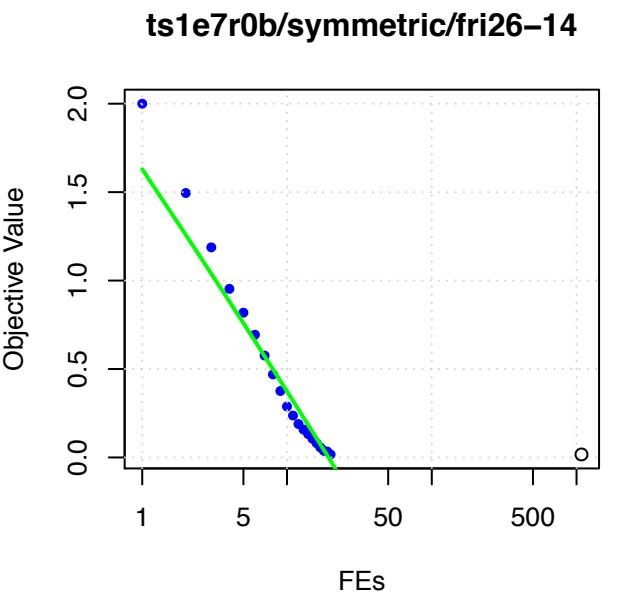
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts1e7r0b/symmetric/fri26−13
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/fri26−14
Objective Value
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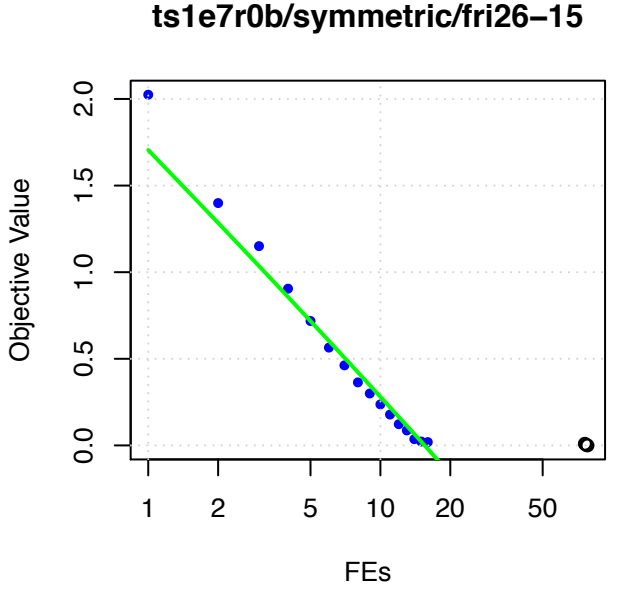
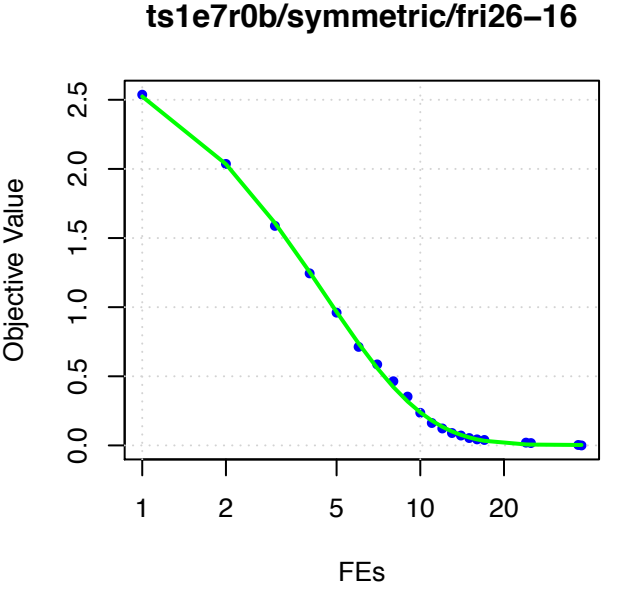
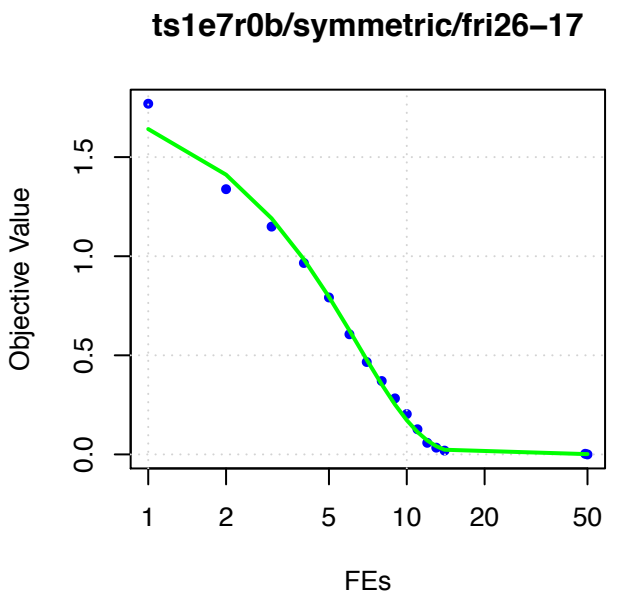
1.0
1.5
2.0
1
5
50
500
FEs


ts1e7r0b/symmetric/fri26−15
Objective Value
0.0
0.5
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/fri26−16
Objective Value
0.0
0.5
1.0
1.5
2.0
2.5
1
2
5
10
20
FEs


ts1e7r0b/symmetric/fri26−17
Objective Value
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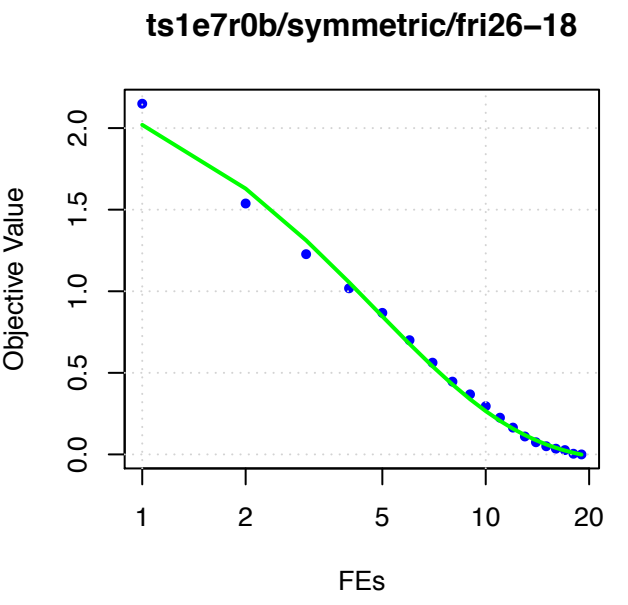
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/fri26−18
Objective Value
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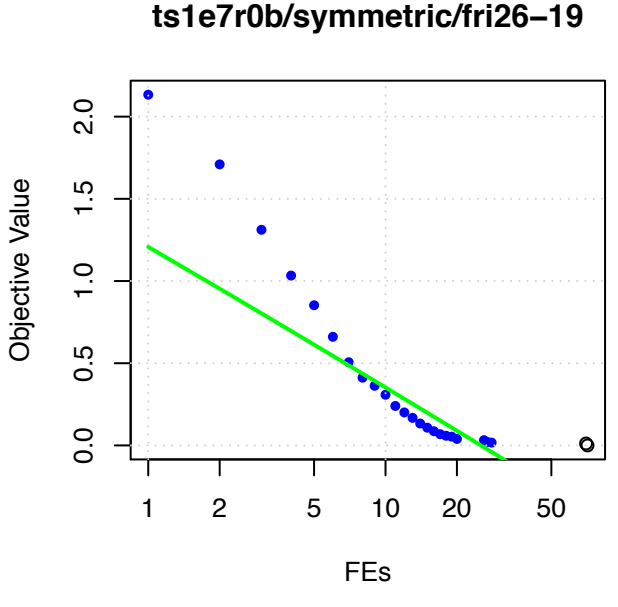
1.0
1.5
2.0
1
2
5
10
20
FEs


ts1e7r0b/symmetric/fri26−19
Objective Value
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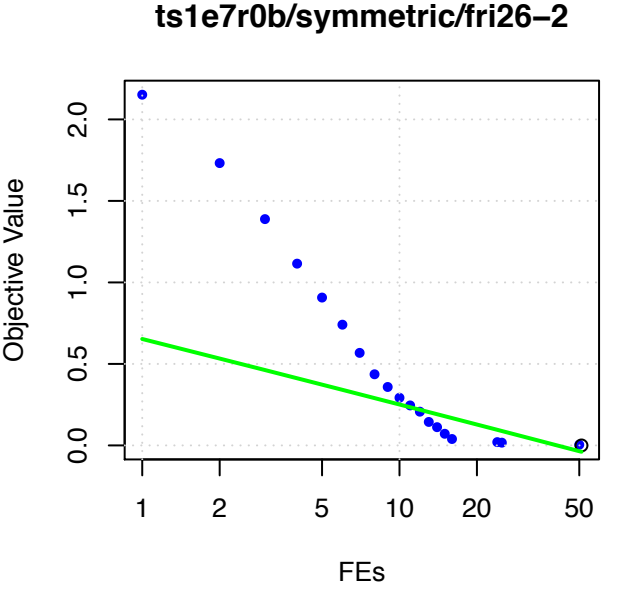
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/fri26−2
Objective Value
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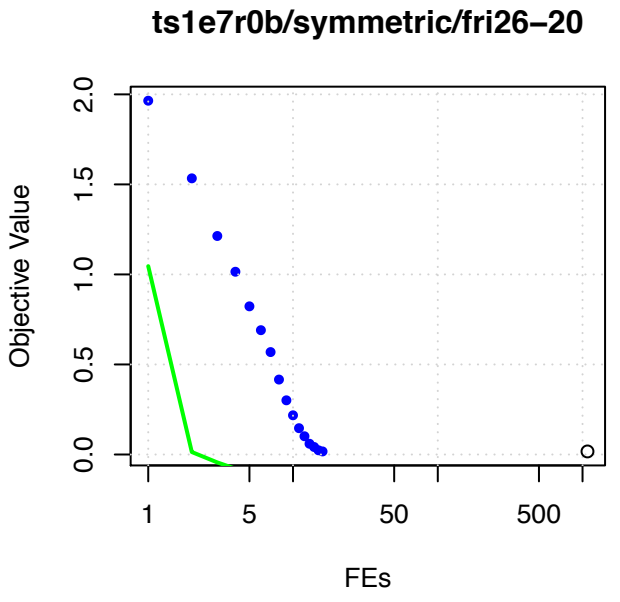
1.0
1.5
2.0
1
2
5
10
20
50
FEs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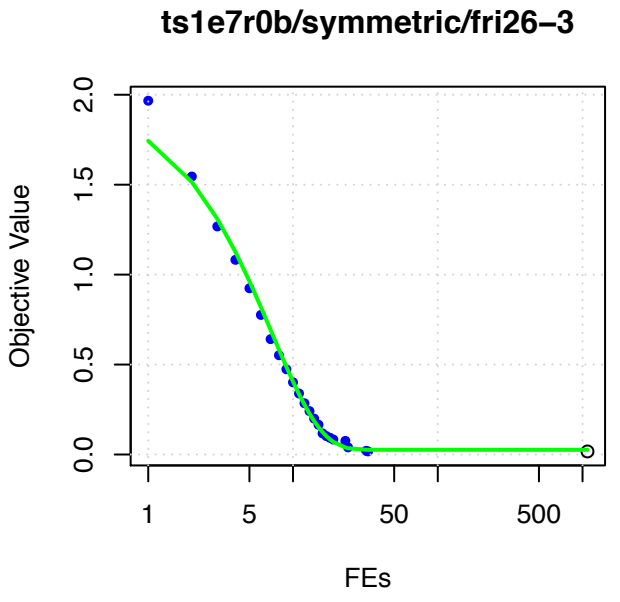
1.0
1.5
2.0
1
5
50
500
FEs


ts1e7r0b/symmetric/fri26−3
Objective Value
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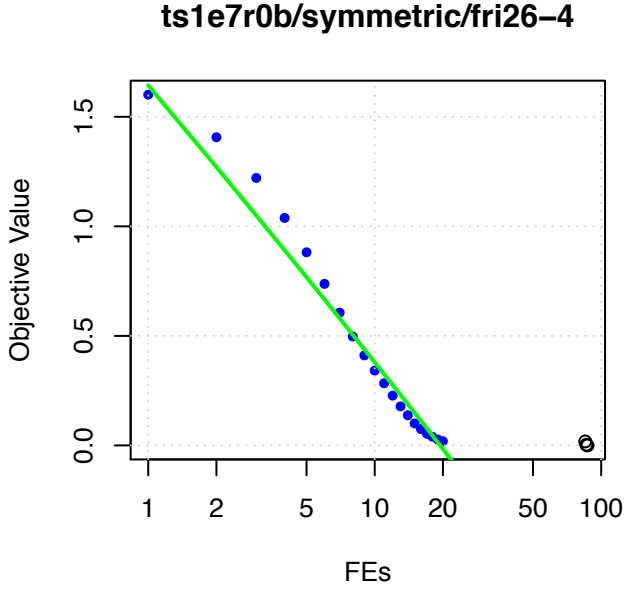
1.0
1.5
2.0
1
5
50
500
FEs


ts1e7r0b/symmetric/fri26−4
Objective Value
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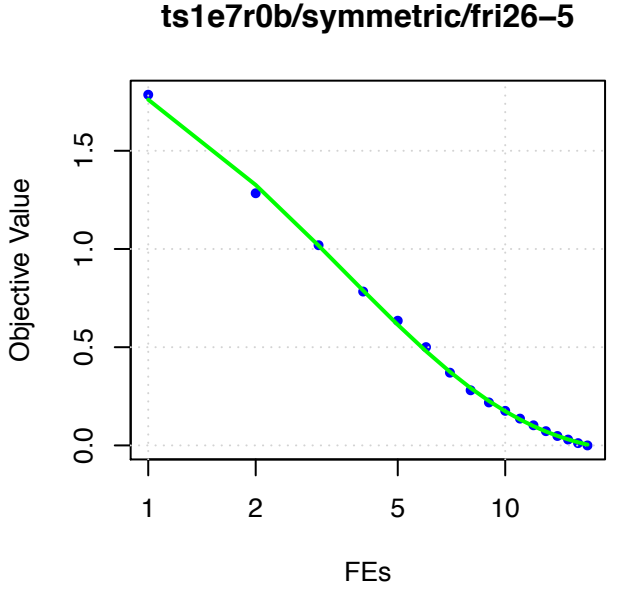
0.5
1.0
1.5
1
2
5
10
20
50
100
FEs


ts1e7r0b/symmetric/fri26−5
Objective Value
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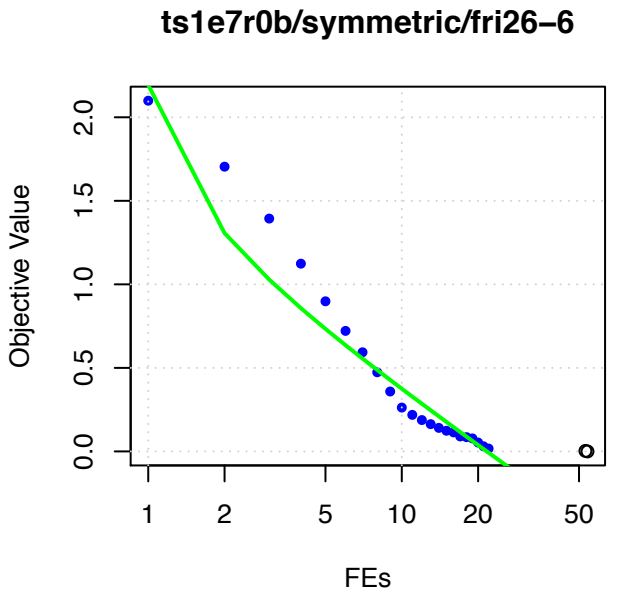
0.5
1.0
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/fri26−6
Objective Value
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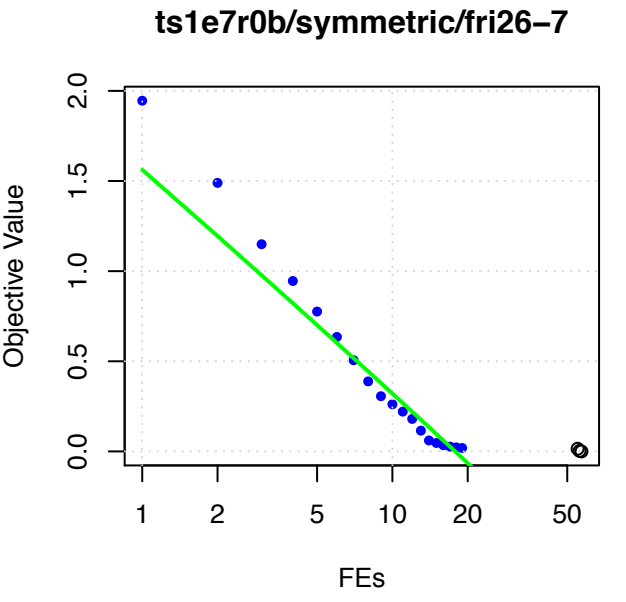
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/fri26−7
Objective Value
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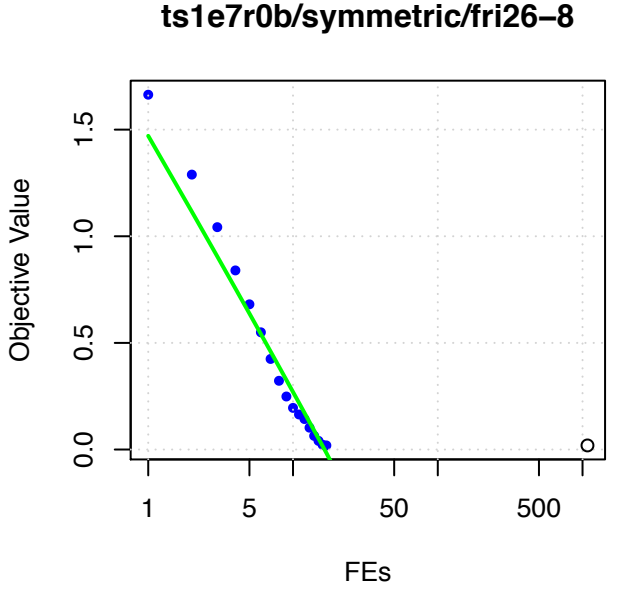
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/fri26−8
Objective Value
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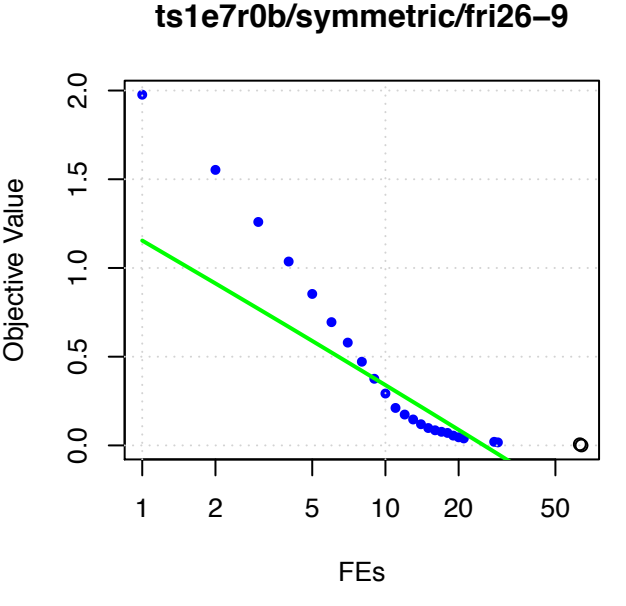
0.5
1.0
1.5
1
5
50
500
FEs


ts1e7r0b/symmetric/fri26−9
Objective Value
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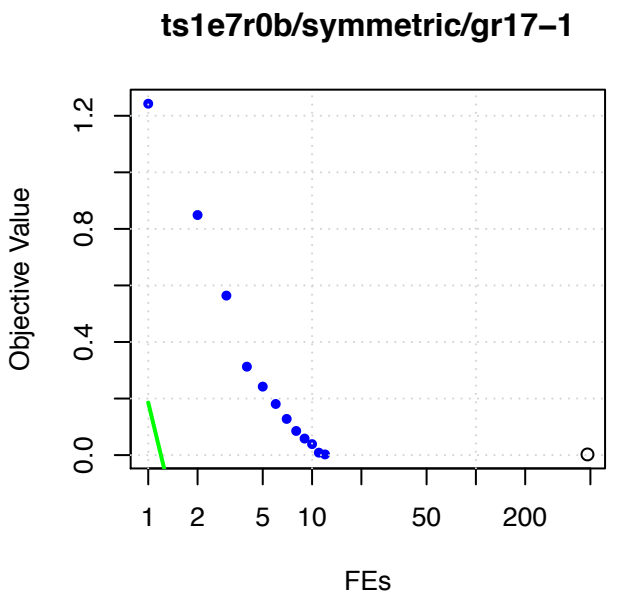
0.5
1.0
1.5
2.0
1
2
5
10
20
50
FEs


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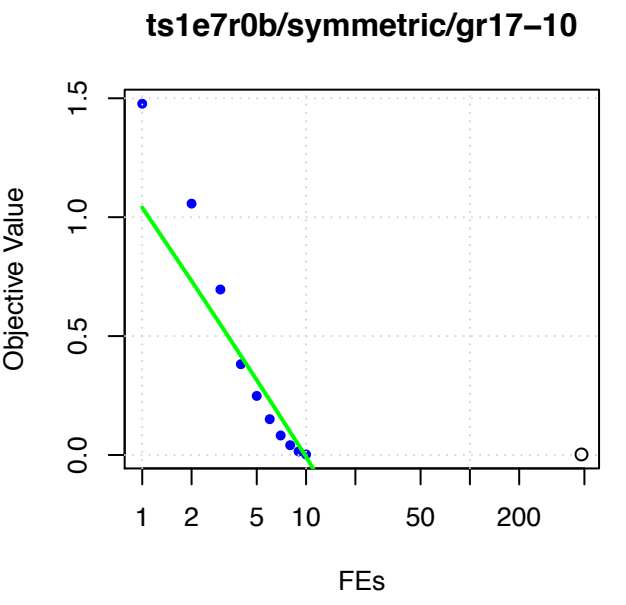
0.4
0.8
1.2
1
2
5
10
50
200
FEs


ts1e7r0b/symmetric/gr17−10
Objective Value
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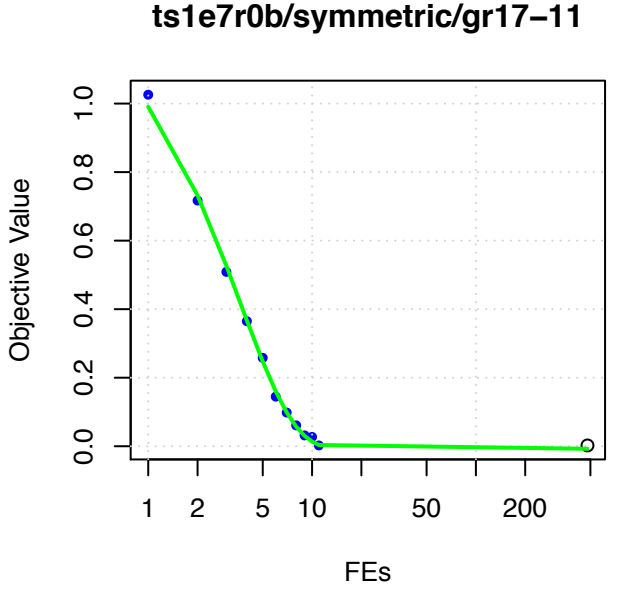
0.5
1.0
1.5
1
2
5
10
50
200
FEs


ts1e7r0b/symmetric/gr17−11
Objective Value
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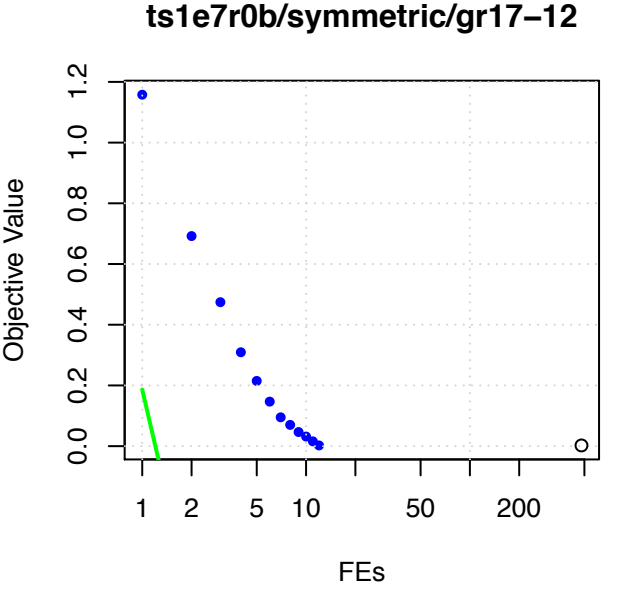
0.2
0.4
0.6
0.8
1.0
1
2
5
10
50
200
FEs


ts1e7r0b/symmetric/gr17−12
Objective Value
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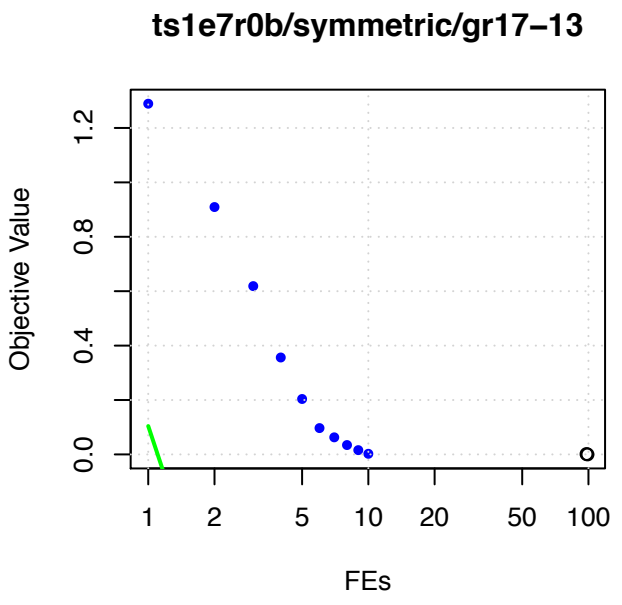
0.2
0.4
0.6
0.8
1.0
1.2
1
2
5
10
50
200
FEs


ts1e7r0b/symmetric/gr17−13
Objective Value
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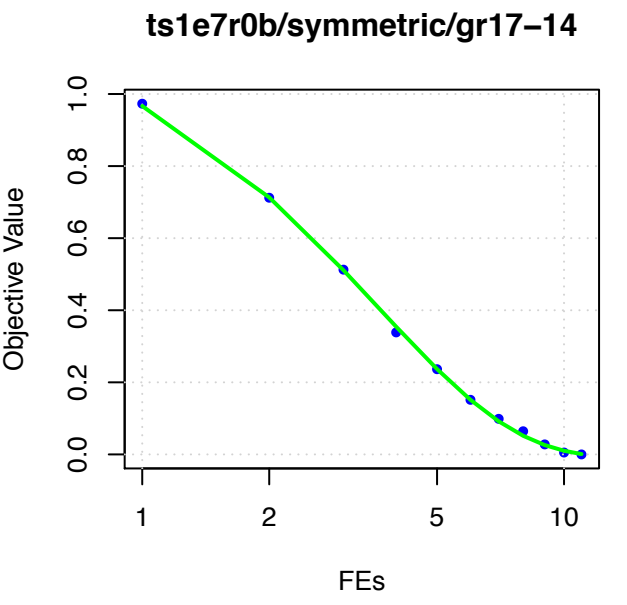
0.4
0.8
1.2
1
2
5
10
20
50
100
FEs


ts1e7r0b/symmetric/gr17−14
Objective Value
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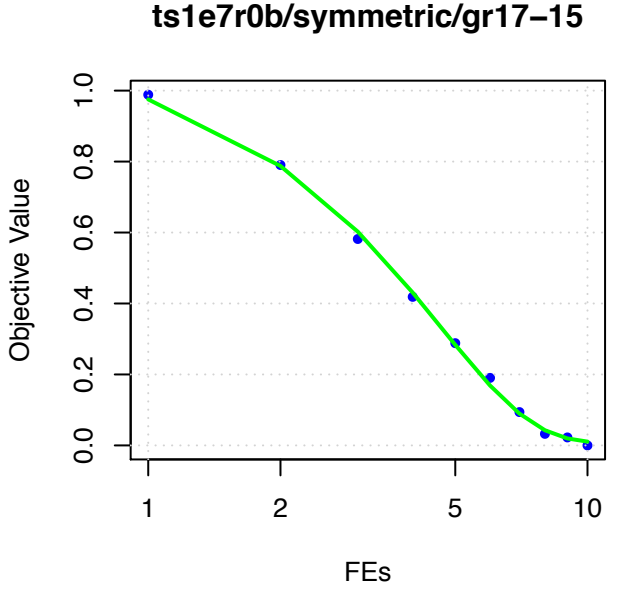
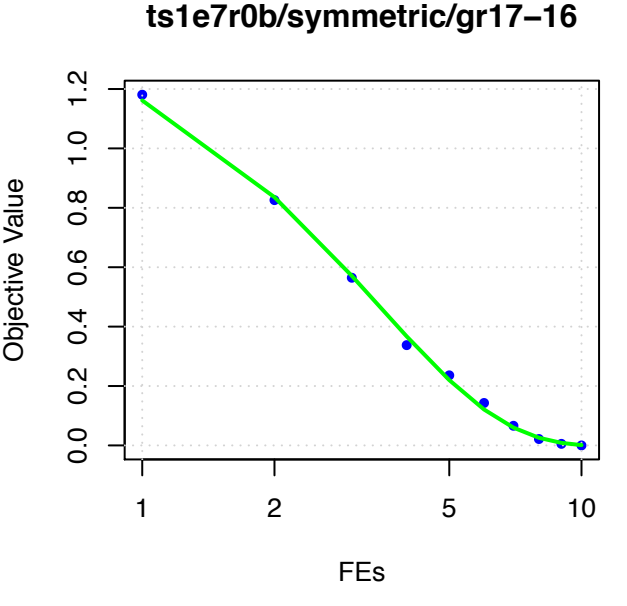
0.2
0.4
0.6
0.8
1.0
1
2
5
10
FEs


ts1e7r0b/symmetric/gr17−15
Objective Value
0.0
0.2
0.4
0.6
0.8
1.0
1
2
5
10
FEs


ts1e7r0b/symmetric/gr17−16
Objective Value
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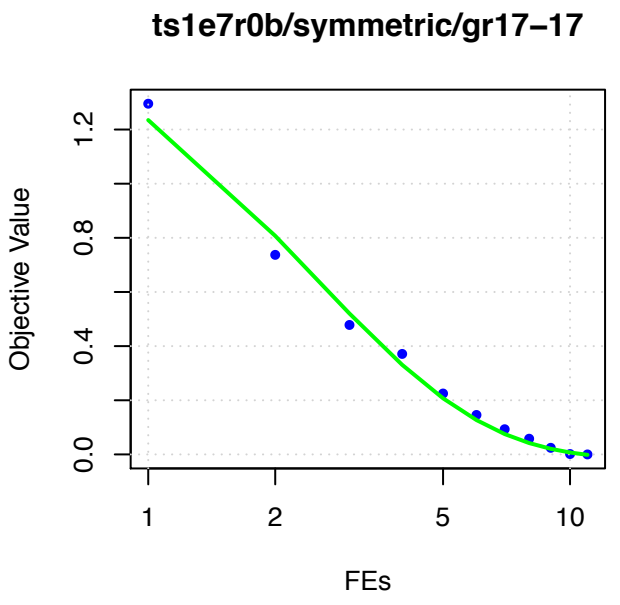
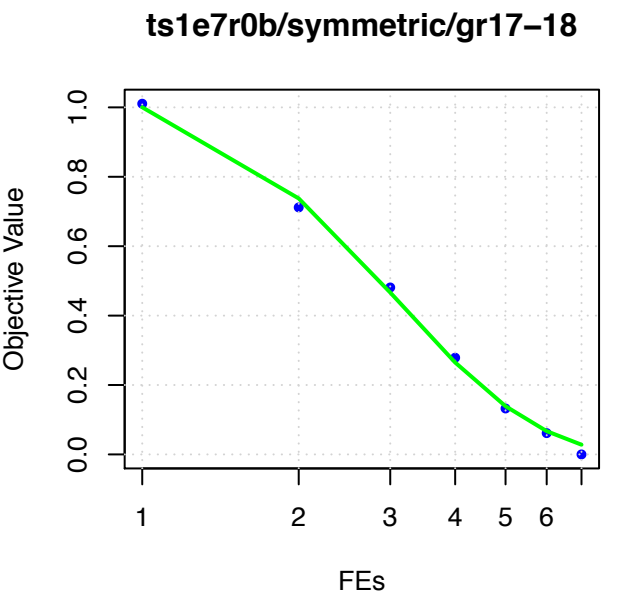
0.2
0.4
0.6
0.8
1.0
1.2
1
2
5
10
FEs


ts1e7r0b/symmetric/gr17−17
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
FEs


ts1e7r0b/symmetric/gr17−18
Objective Value
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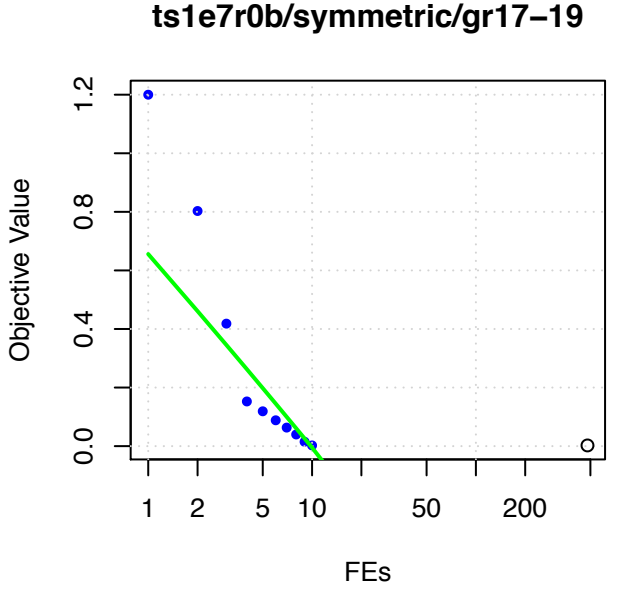
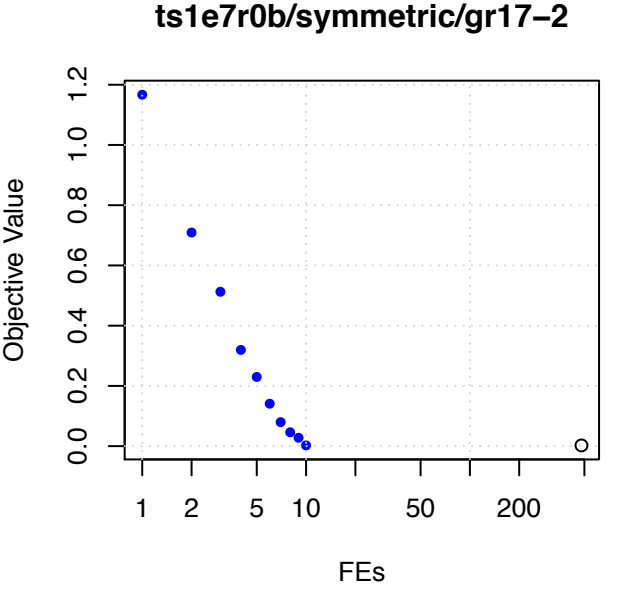
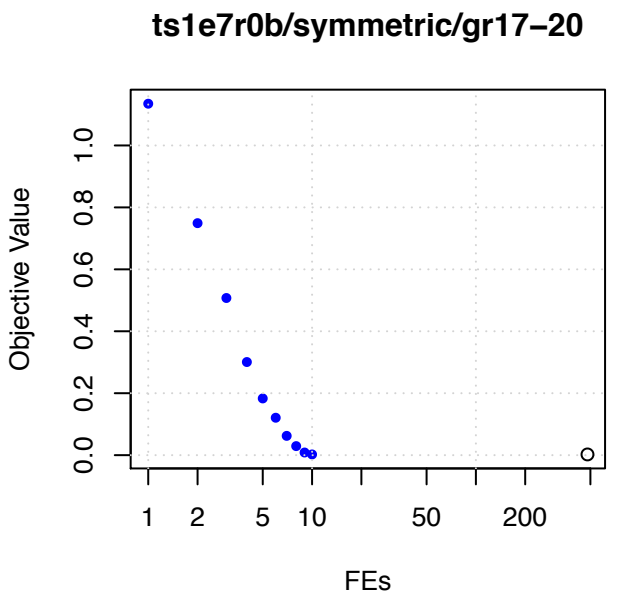
0.2
0.4
0.6
0.8
1.0
1
2
3
4
5
6
FEs


ts1e7r0b/symmetric/gr17−19
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
50
200
FEs


ts1e7r0b/symmetric/gr17−2
Objective Value
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1
2
5
10
50
200
FEs


ts1e7r0b/symmetric/gr17−20
Objective Value
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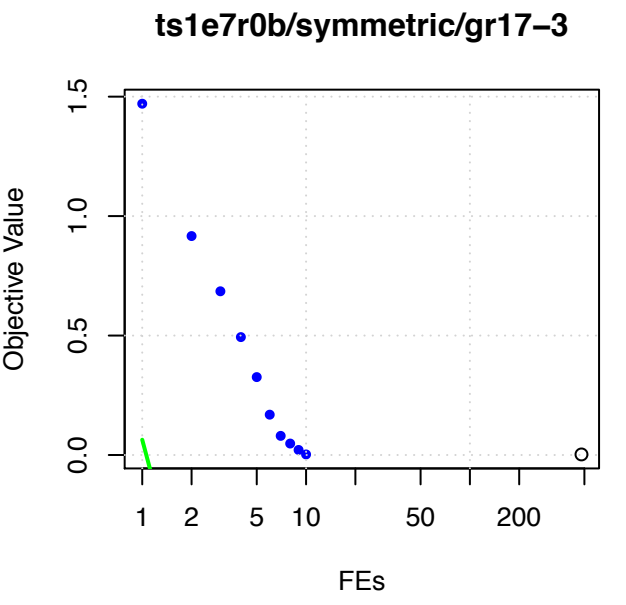
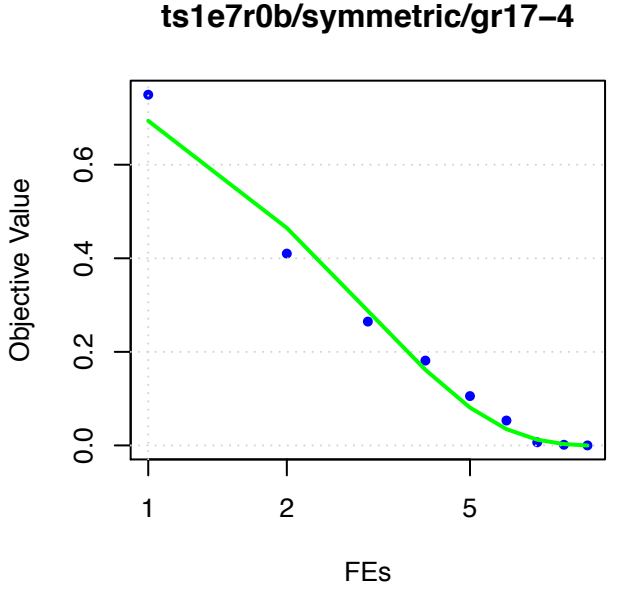
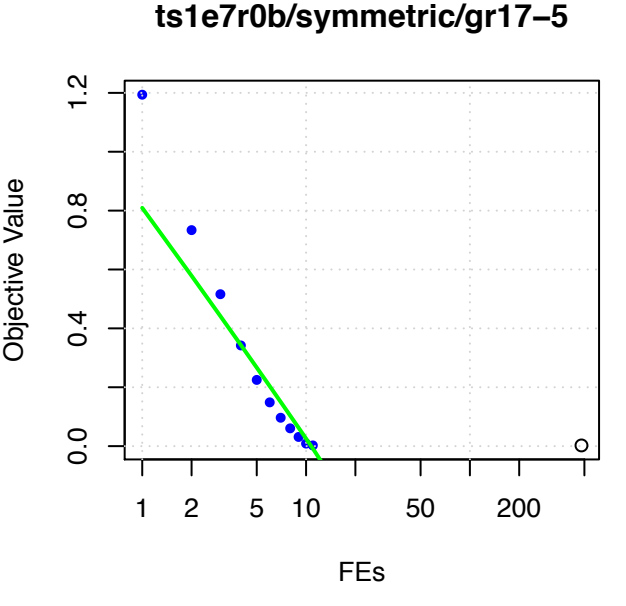
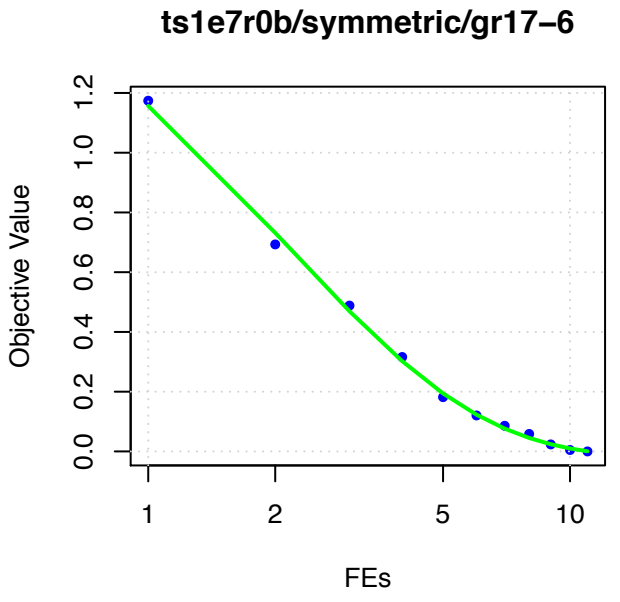
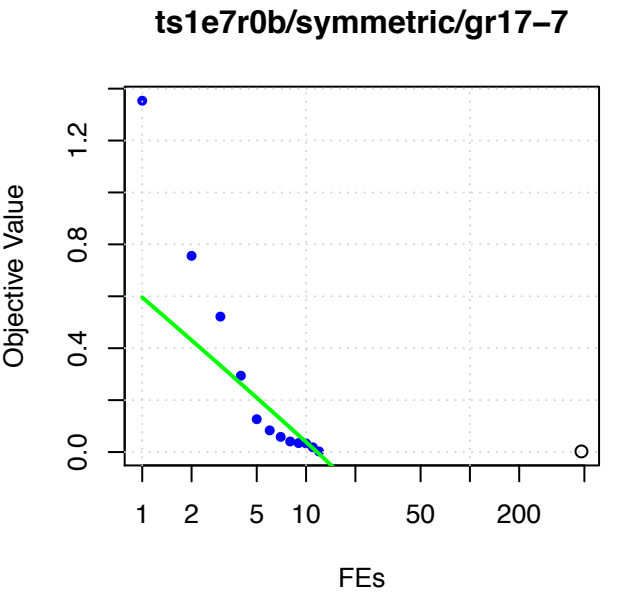
0.2
0.4
0.6
0.8
1.0
1
2
5
10
50
200
FEs

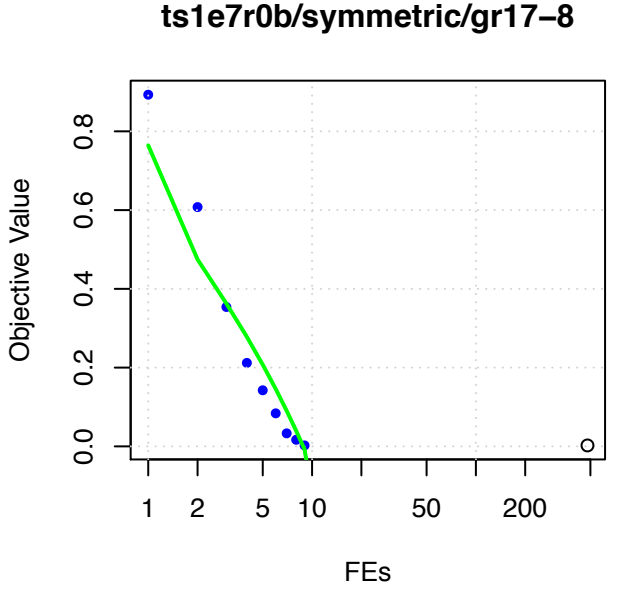

ts1e7r0b/symmetric/gr17−3
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
50
200
FEs

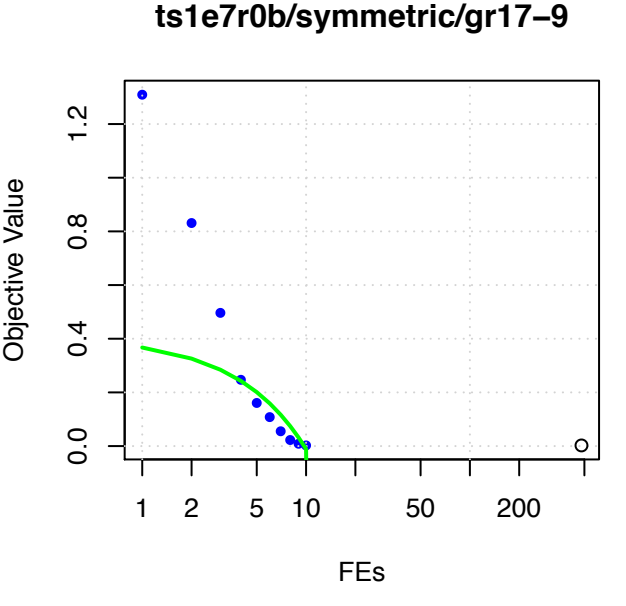

ts1e7r0b/symmetric/gr17−4
Objective Value
0.0
0.2
0.4
0.6
1
2
5
FEs

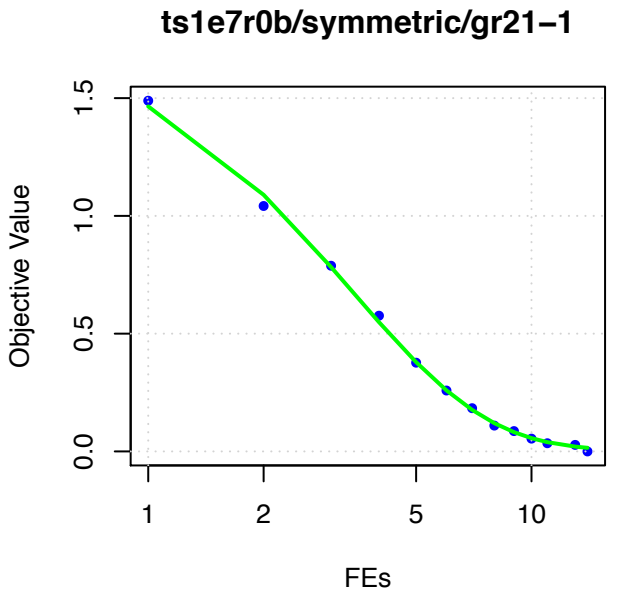

ts1e7r0b/symmetric/gr17−5
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
50
200
FEs

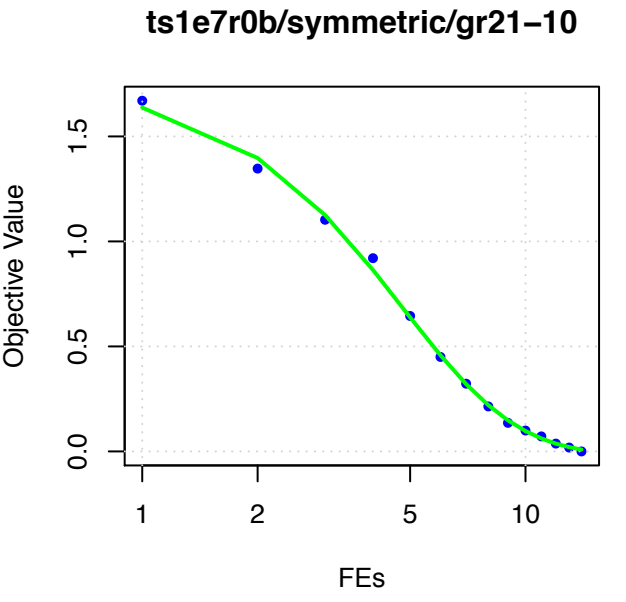

ts1e7r0b/symmetric/gr17−6
Objective Value
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1
2
5
10
FEs


ts1e7r0b/symmetric/gr17−7
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
50
200
FEs


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


ts1e7r0b/symmetric/gr17−9
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
50
200
FEs


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


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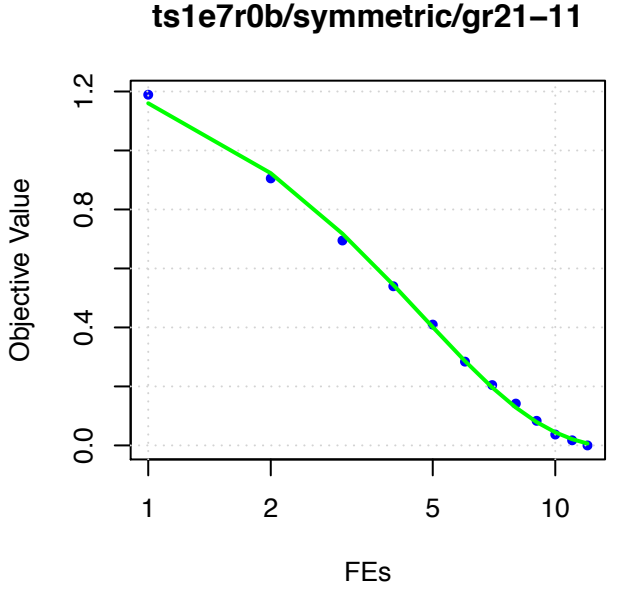
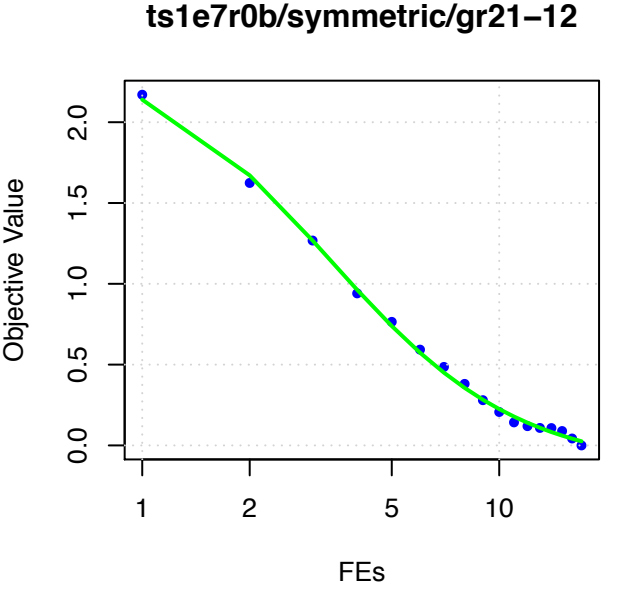
0.5
1.0
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/gr21−11
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
FEs


ts1e7r0b/symmetric/gr21−12
Objective Value
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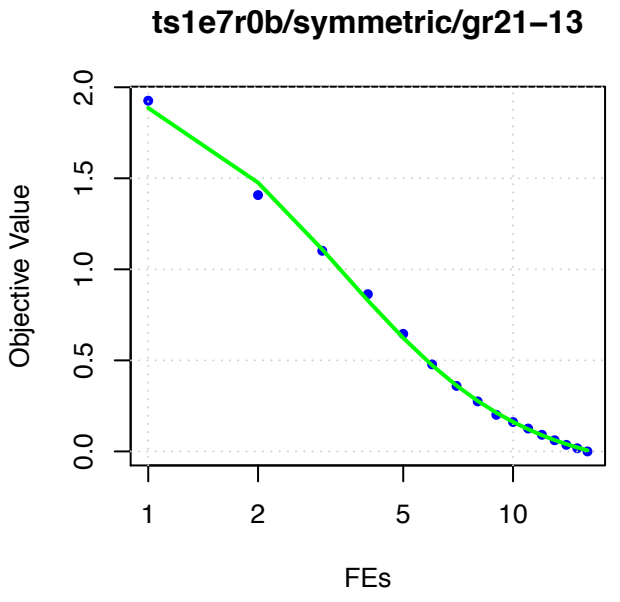
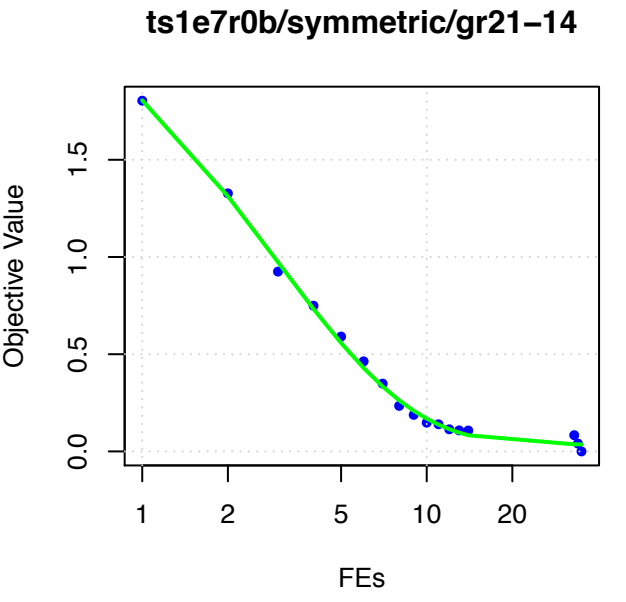
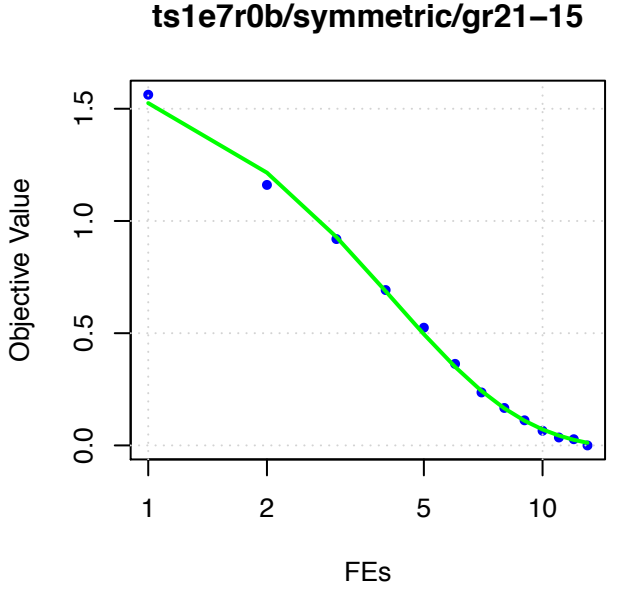
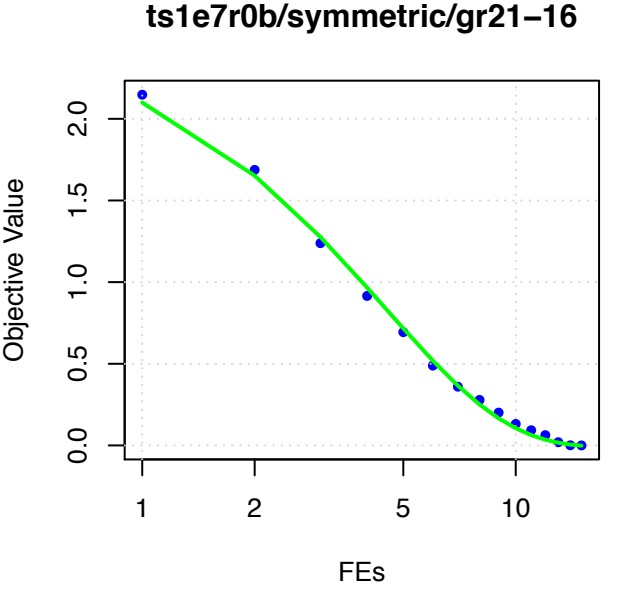
0.5
1.0
1.5
2.0
1
2
5
10
FEs


ts1e7r0b/symmetric/gr21−13
Objective Value
0.0
0.5
1.0
1.5
2.0
1
2
5
10
FEs


ts1e7r0b/symmetric/gr21−14
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
FEs


ts1e7r0b/symmetric/gr21−15
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/gr21−16
Objective Value
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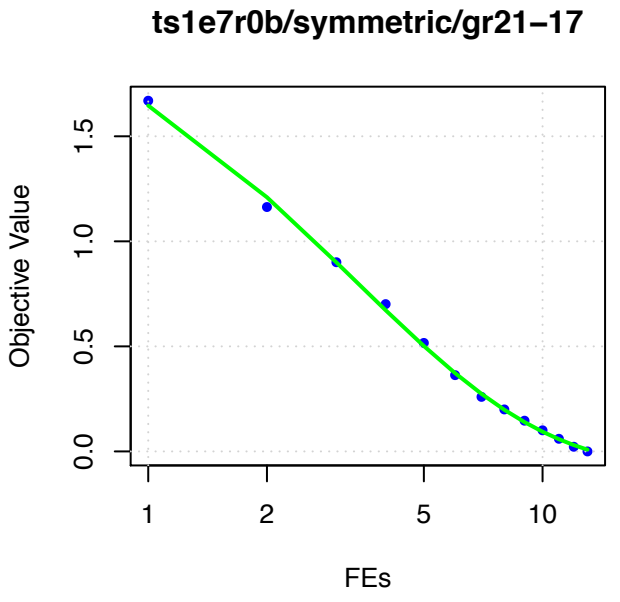
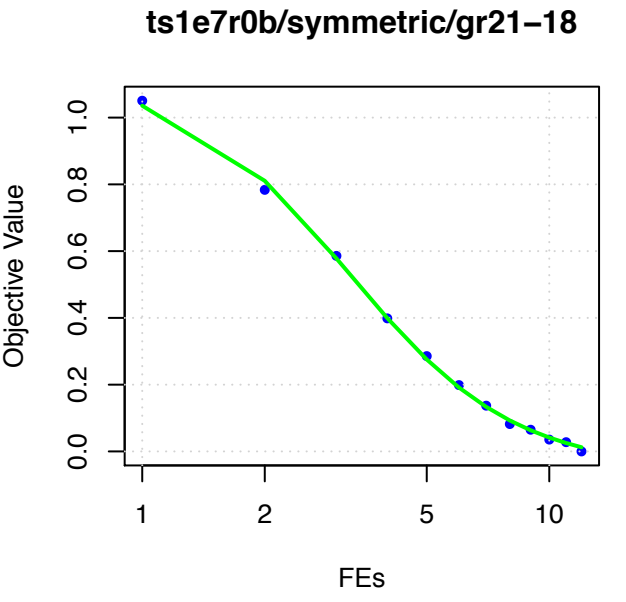
0.5
1.0
1.5
2.0
1
2
5
10
FEs


ts1e7r0b/symmetric/gr21−17
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
FEs


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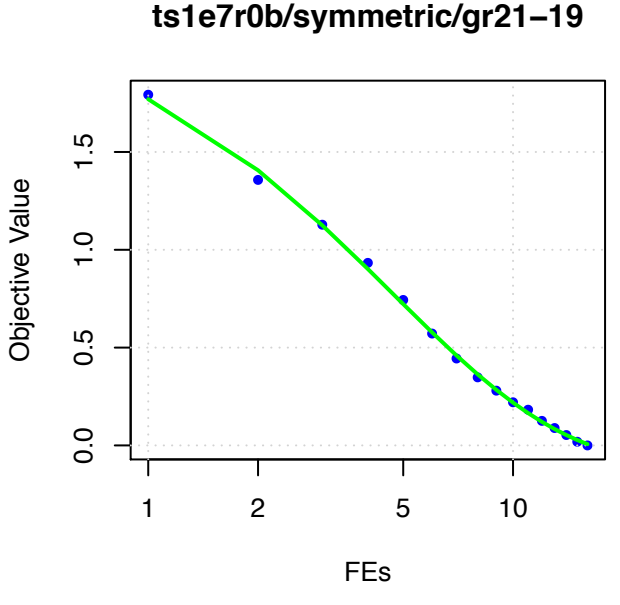
0.2
0.4
0.6
0.8
1.0
1
2
5
10
FEs


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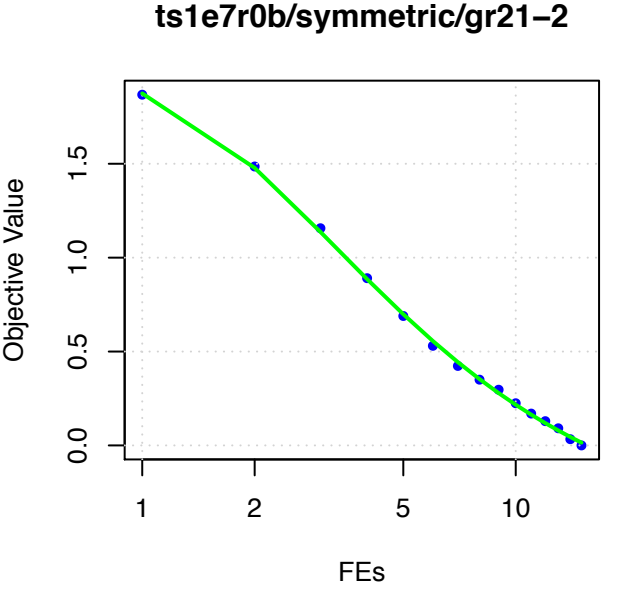
0.5
1.0
1.5
1
2
5
10
FEs


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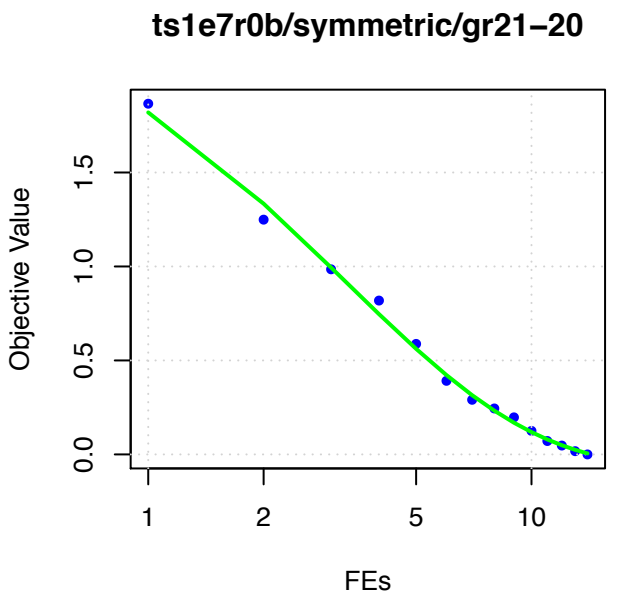
0.5
1.0
1.5
1
2
5
10
FEs


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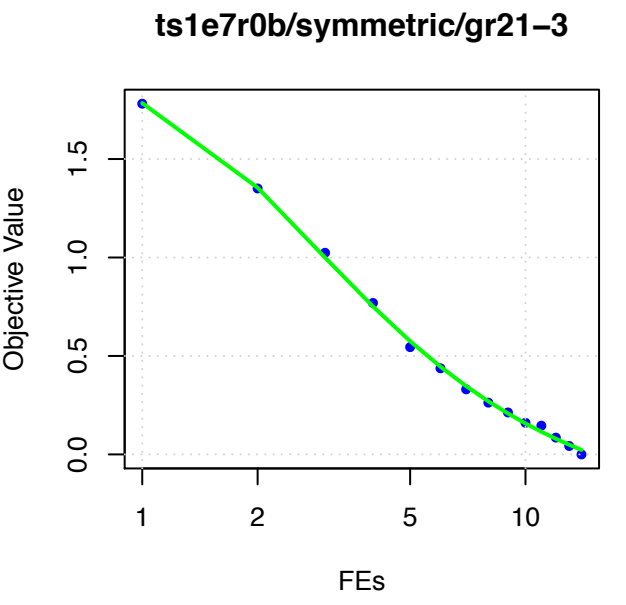
0.5
1.0
1.5
1
2
5
10
FEs


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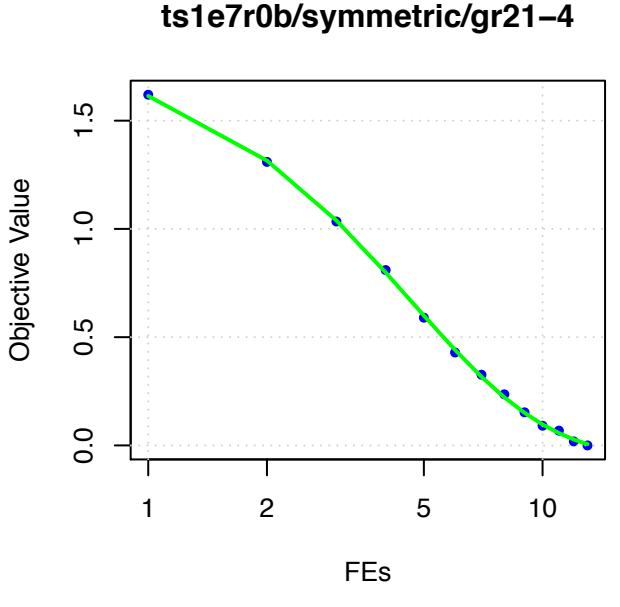
0.5
1.0
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/gr21−4
Objective Value
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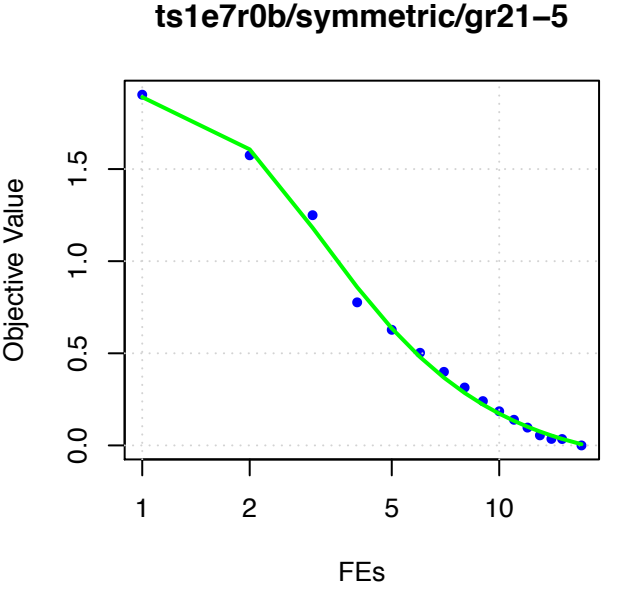
0.5
1.0
1.5
1
2
5
10
FEs


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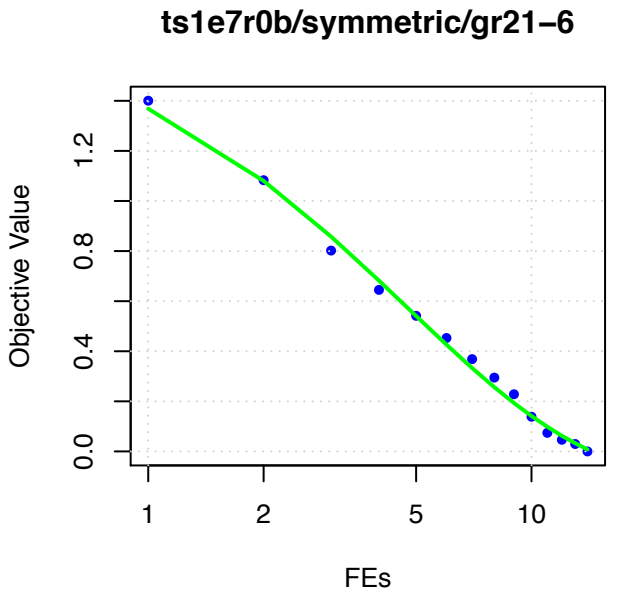
0.5
1.0
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/gr21−6
Objective Value
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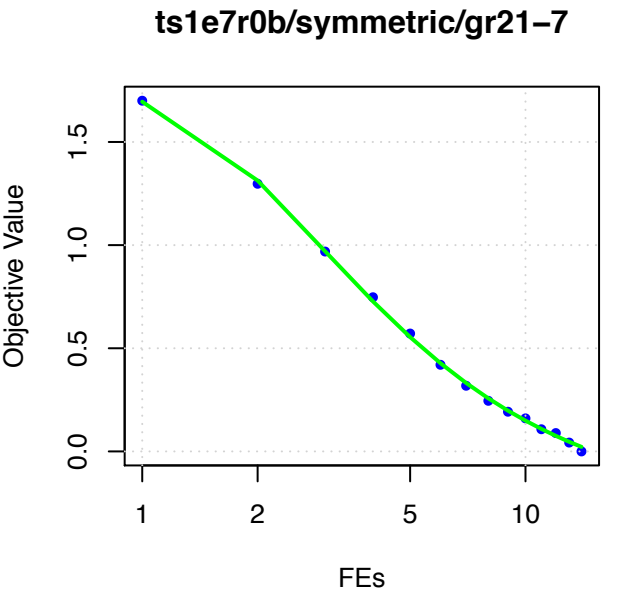
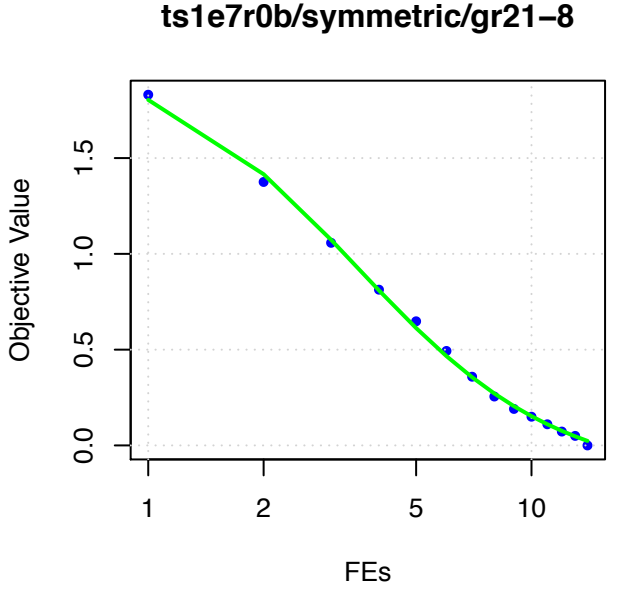
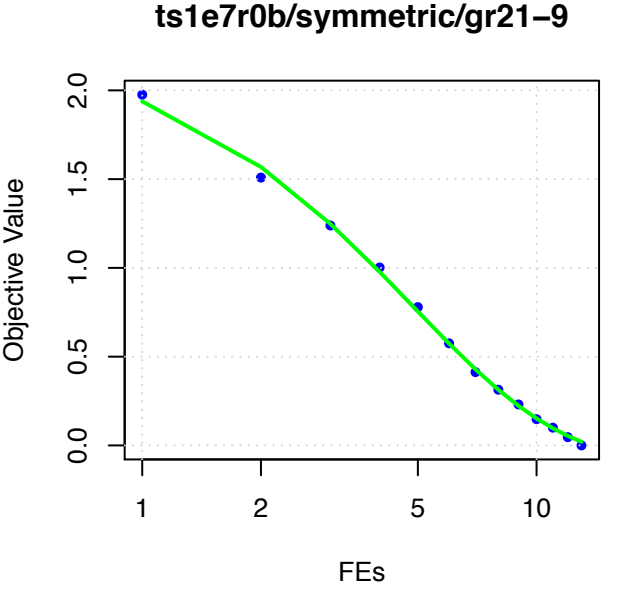
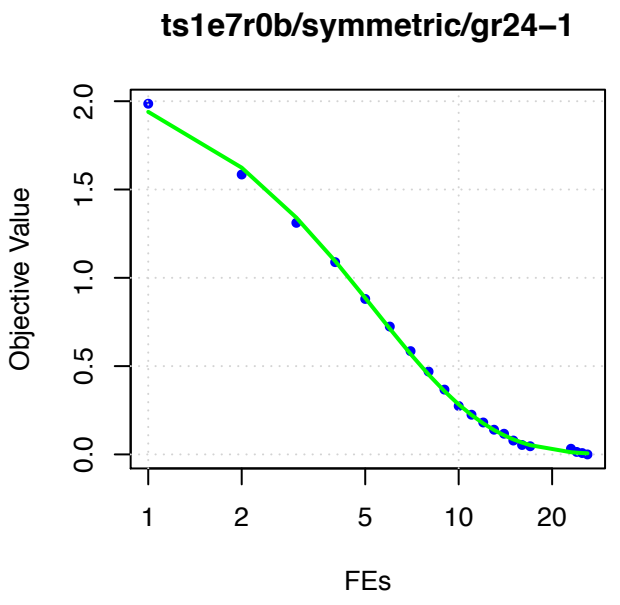
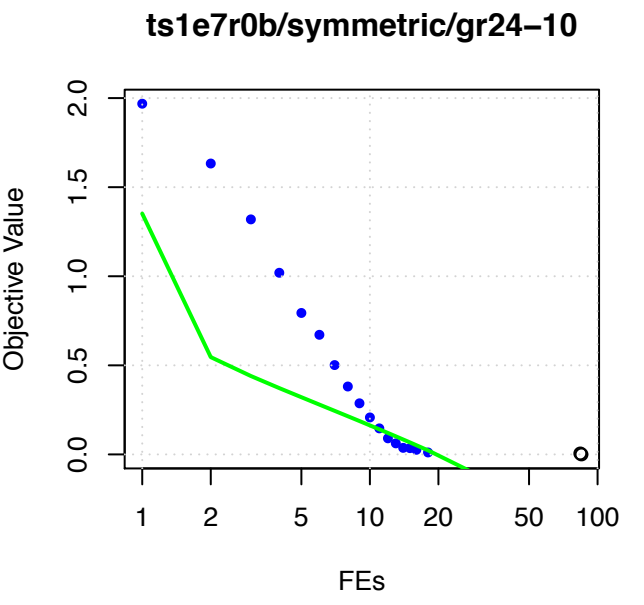
0.4
0.8
1.2
1
2
5
10
FEs

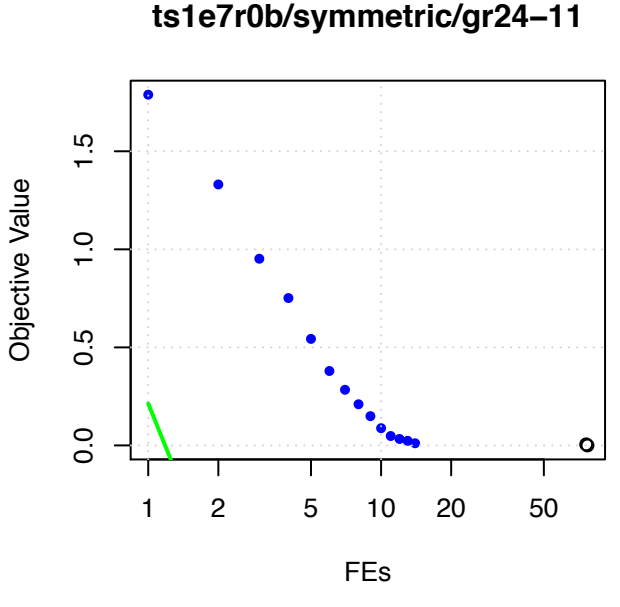

ts1e7r0b/symmetric/gr21−7
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
FEs

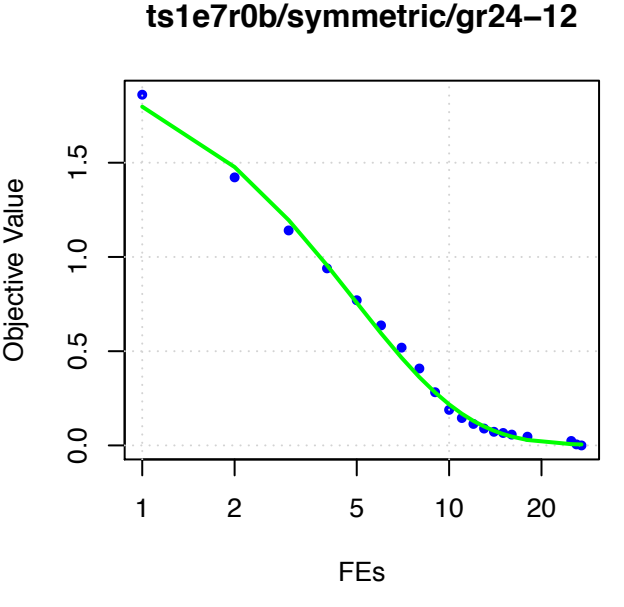

ts1e7r0b/symmetric/gr21−8
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
FEs

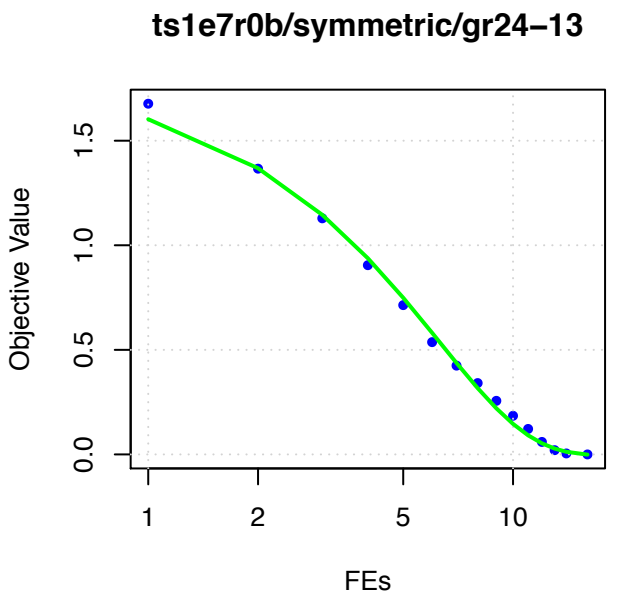

ts1e7r0b/symmetric/gr21−9
Objective Value
0.0
0.5
1.0
1.5
2.0
1
2
5
10
FEs

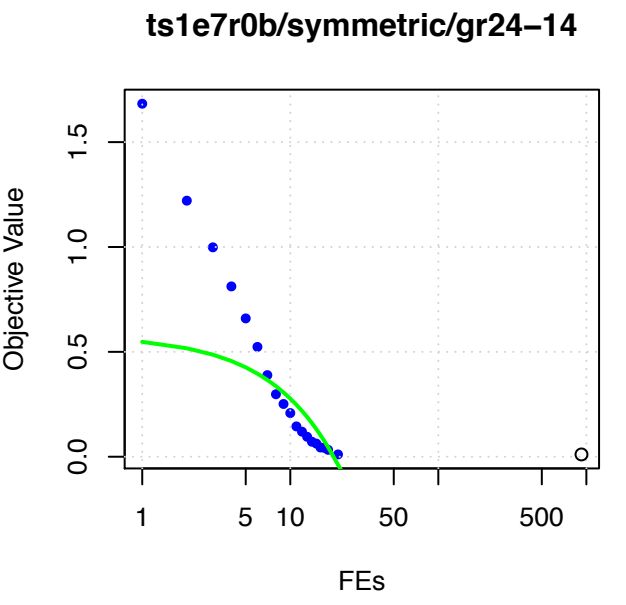

ts1e7r0b/symmetric/gr24−1
Objective Value
0.0
0.5
1.0
1.5
2.0
1
2
5
10
20
FEs

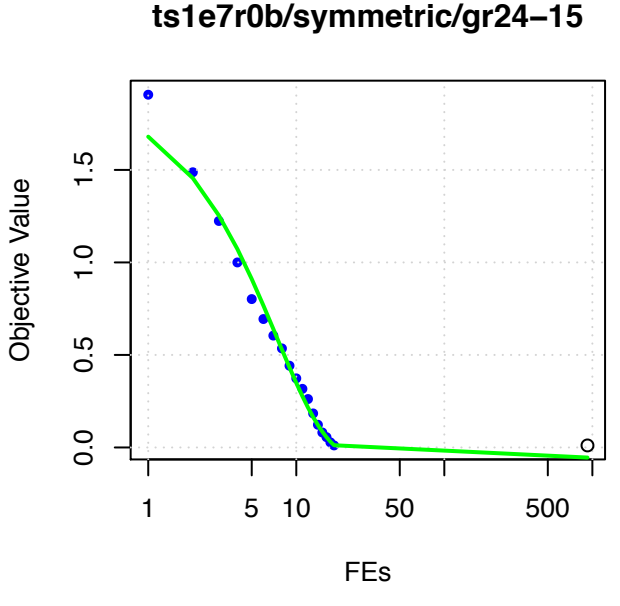

ts1e7r0b/symmetric/gr24−10
Objective Value
0.0
0.5
1.0
1.5
2.0
1
2
5
10
20
50
100
FEs

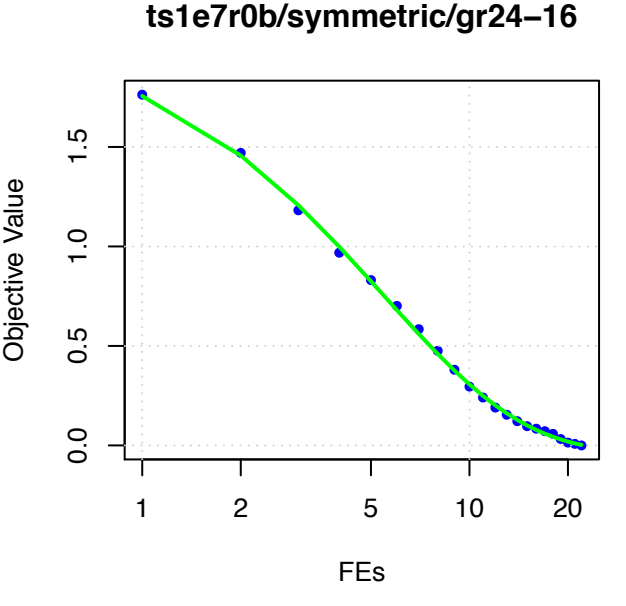

ts1e7r0b/symmetric/gr24−11
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
FEs

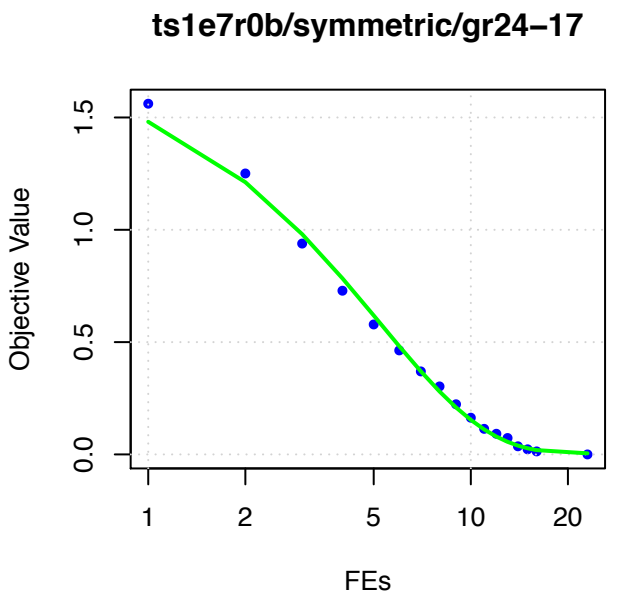

ts1e7r0b/symmetric/gr24−12
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
FEs

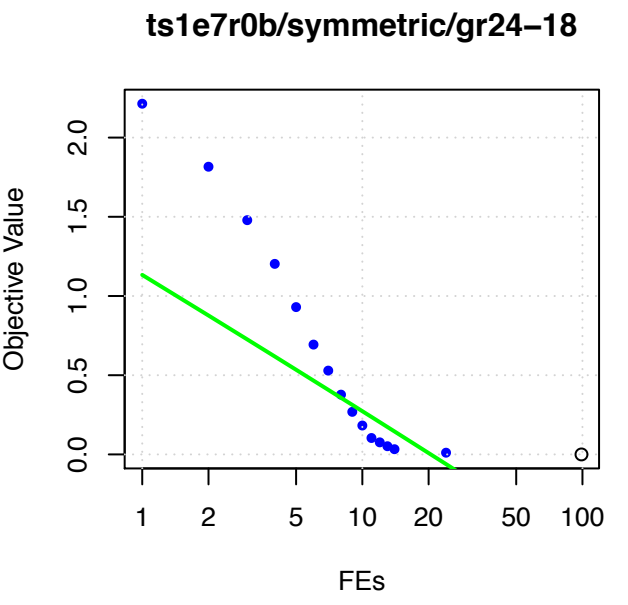

ts1e7r0b/symmetric/gr24−13
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/gr24−14
Objective Value
0.0
0.5
1.0
1.5
1
5
10
50
500
FEs


ts1e7r0b/symmetric/gr24−15
Objective Value
0.0
0.5
1.0
1.5
1
5
10
50
500
FEs


ts1e7r0b/symmetric/gr24−16
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
FEs


ts1e7r0b/symmetric/gr24−17
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
FEs


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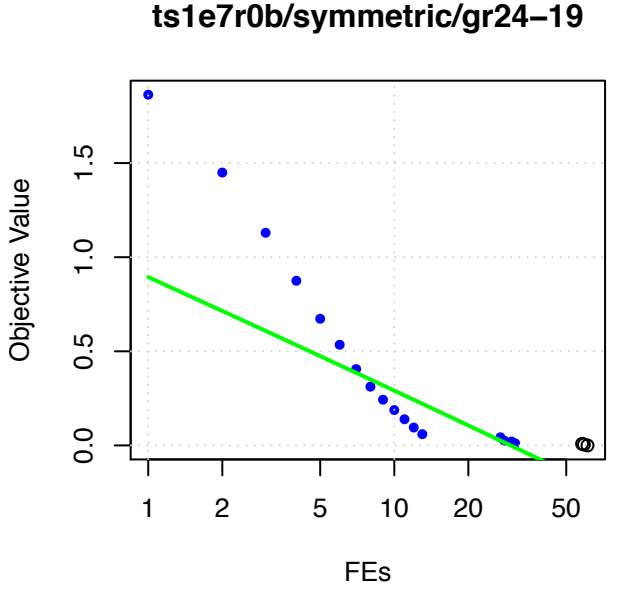
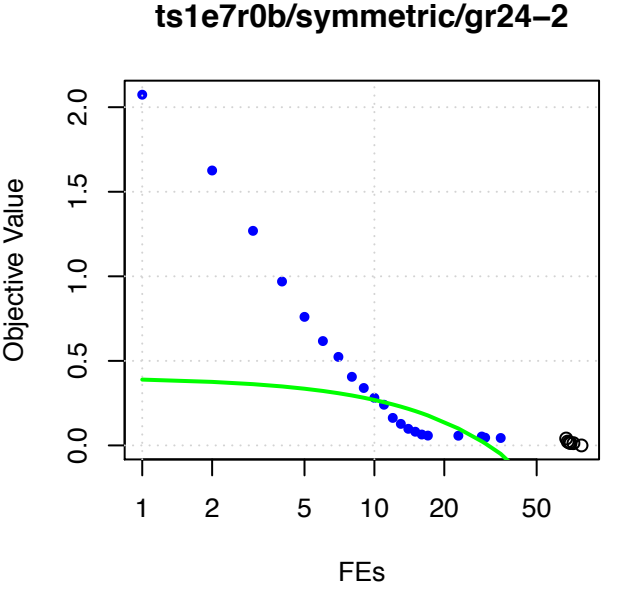
0.5
1.0
1.5
2.0
1
2
5
10
20
50
100
FEs


ts1e7r0b/symmetric/gr24−19
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/gr24−2
Objective Value
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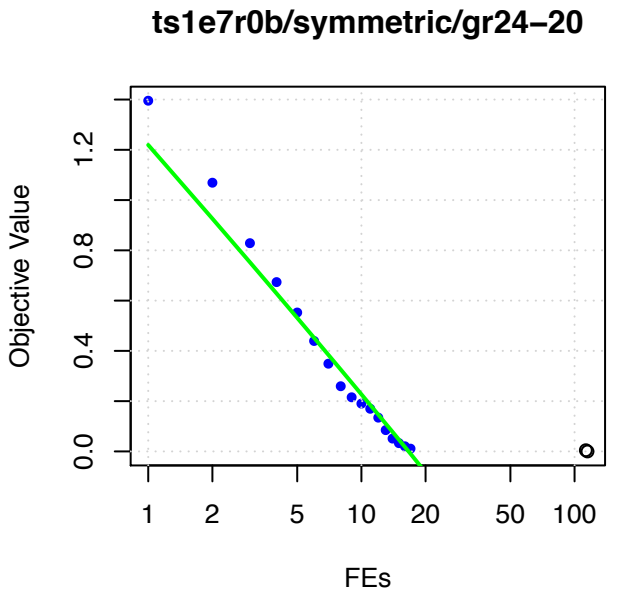
0.5
1.0
1.5
2.0
1
2
5
10
20
50
FEs


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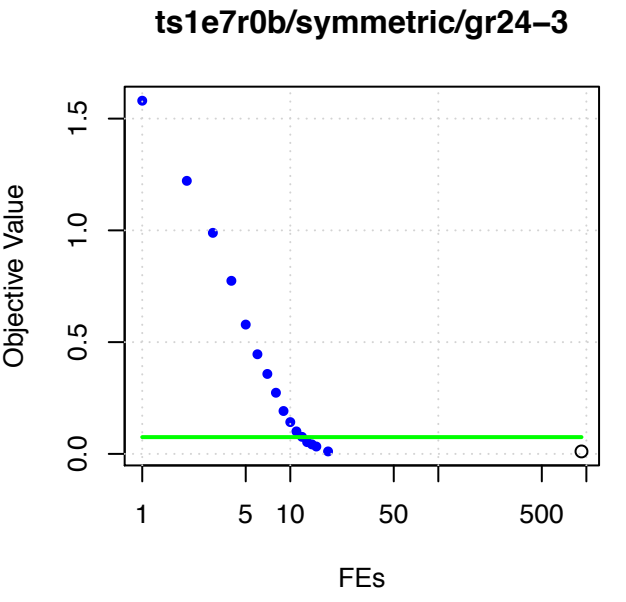
0.4
0.8
1.2
1
2
5
10
20
50
100
FEs


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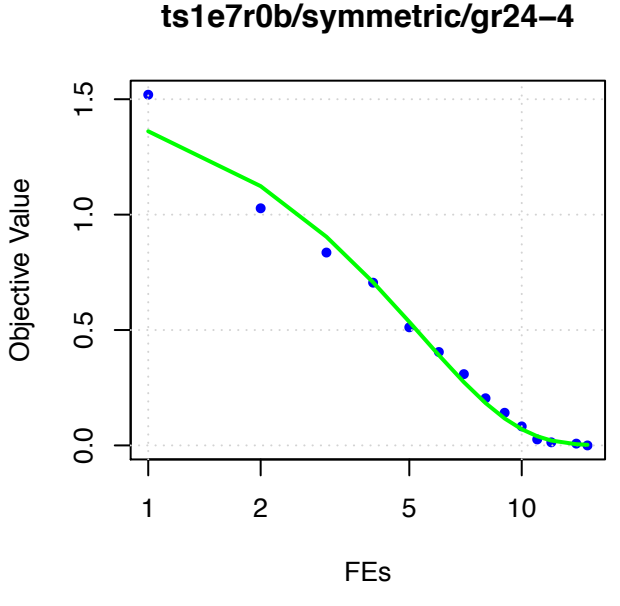
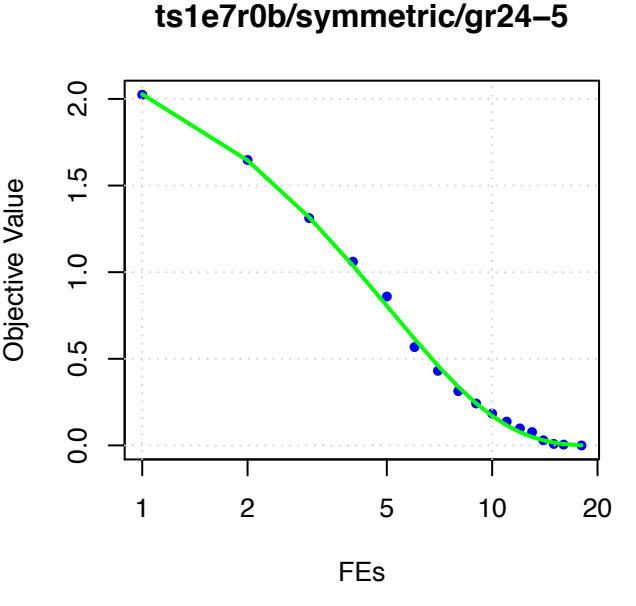
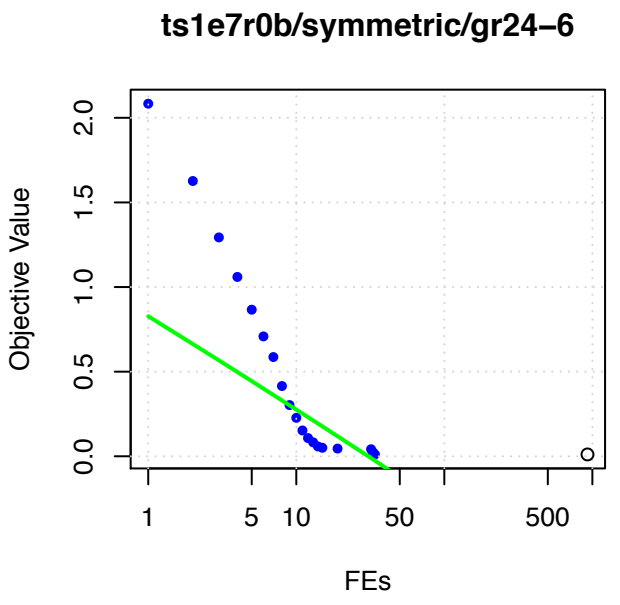
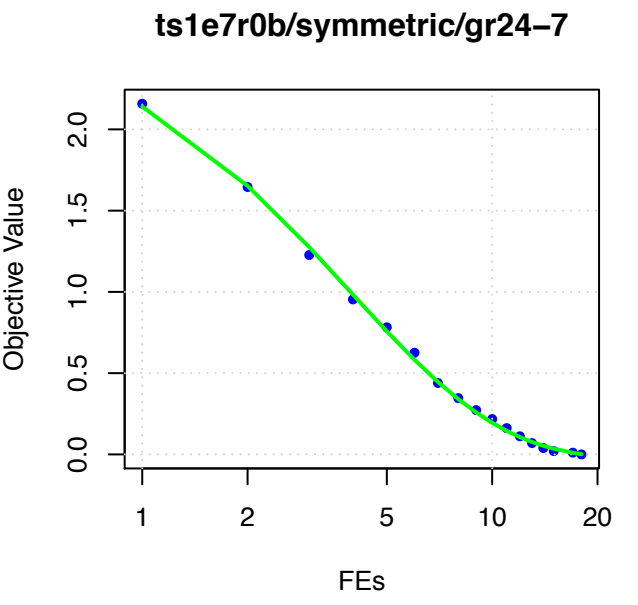
0.5
1.0
1.5
1
5
10
50
500
FEs


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


ts1e7r0b/symmetric/gr24−5
Objective Value
0.0
0.5
1.0
1.5
2.0
1
2
5
10
20
FEs


ts1e7r0b/symmetric/gr24−6
Objective Value
0.0
0.5
1.0
1.5
2.0
1
5
10
50
500
FEs


ts1e7r0b/symmetric/gr24−7
Objective Value
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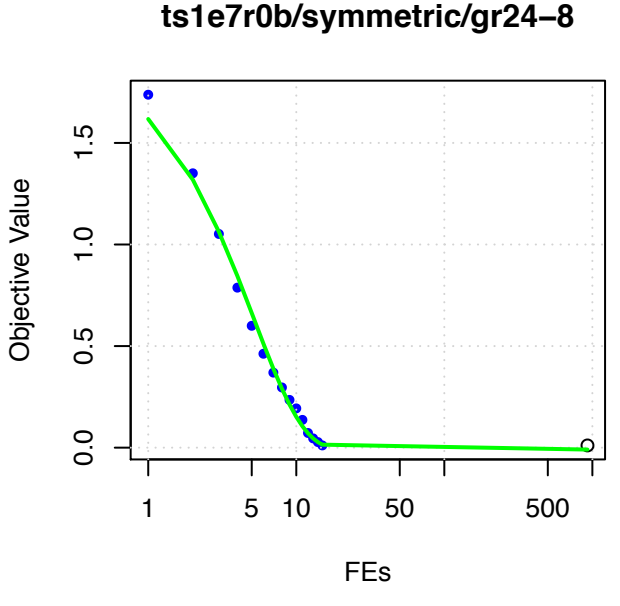
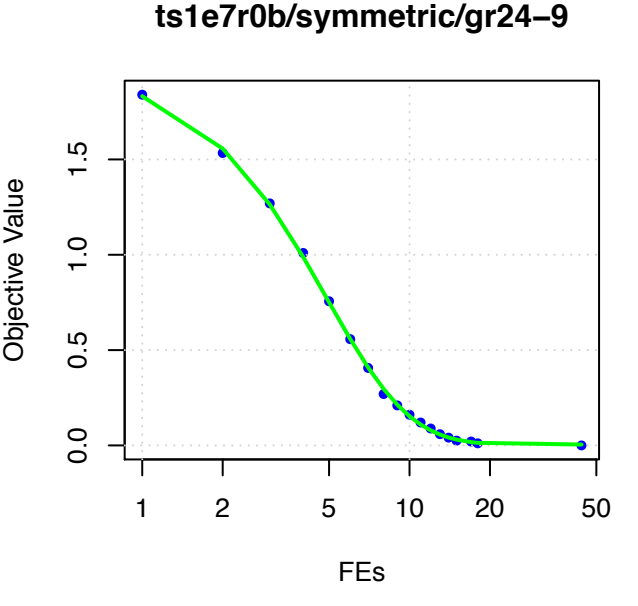
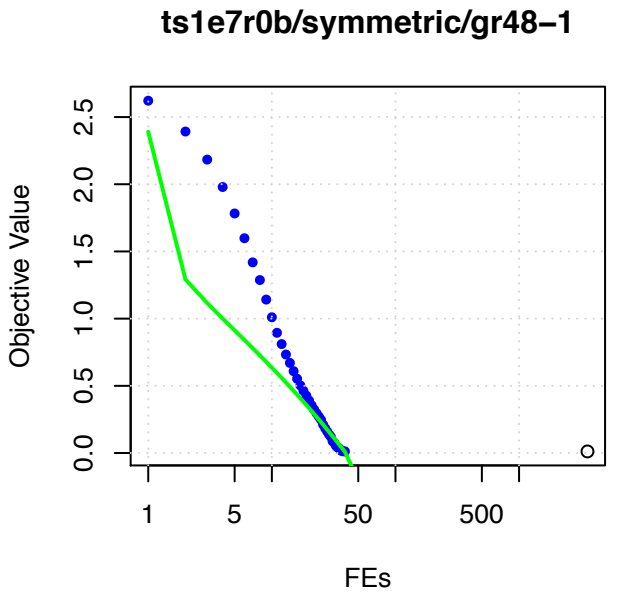
0.5
1.0
1.5
2.0
1
2
5
10
20
FEs


ts1e7r0b/symmetric/gr24−8
Objective Value
0.0
0.5
1.0
1.5
1
5
10
50
500
FEs


ts1e7r0b/symmetric/gr24−9
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/gr48−1
Objective Value
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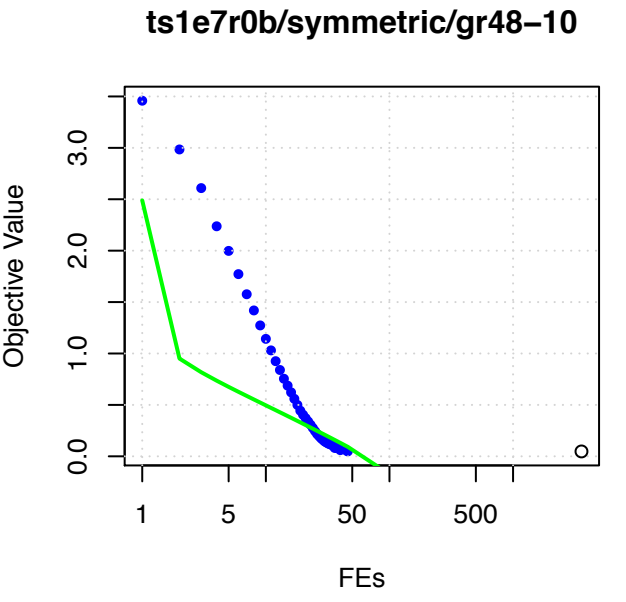
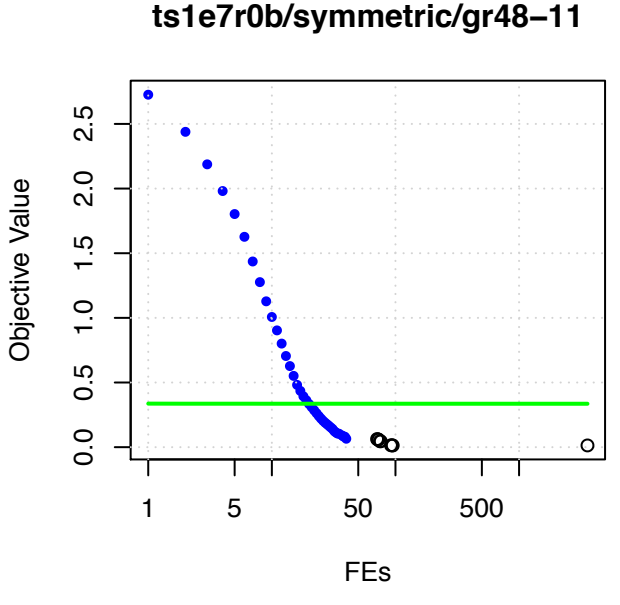
0.5
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−10
Objective Value
0.0
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−11
Objective Value
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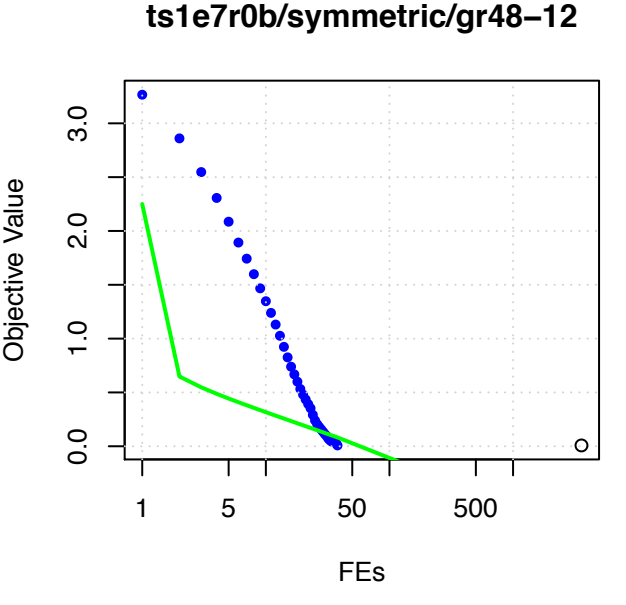
0.5
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−12
Objective Value
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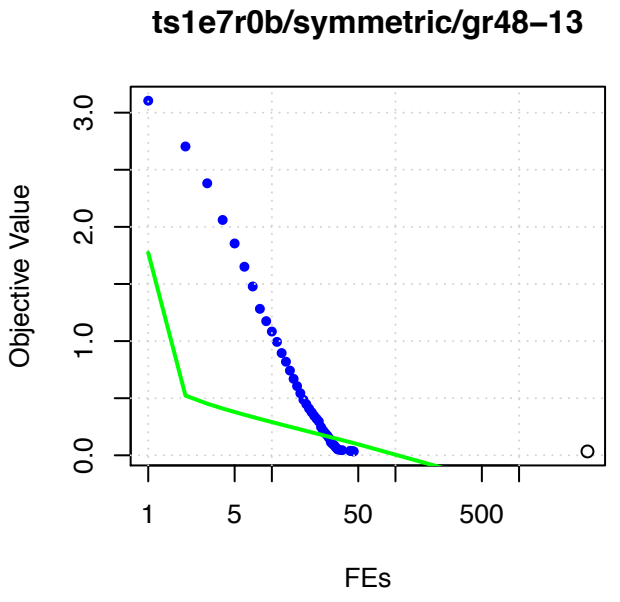
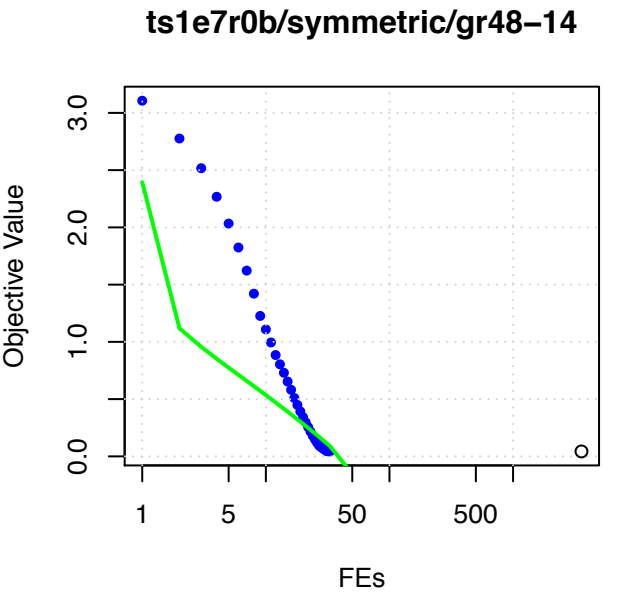
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−13
Objective Value
0.0
1.0
2.0
3.0
1
5
50
500
FEs


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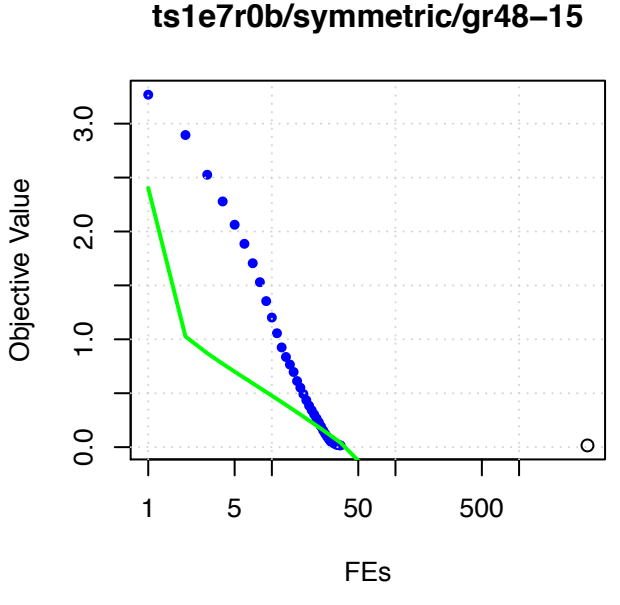
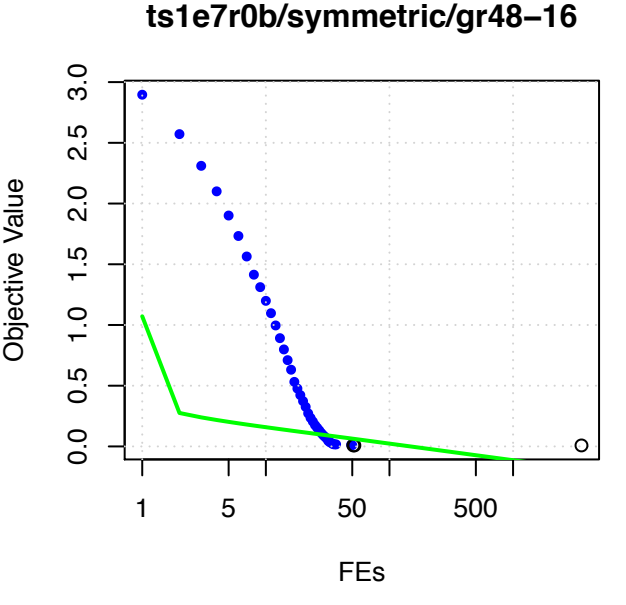
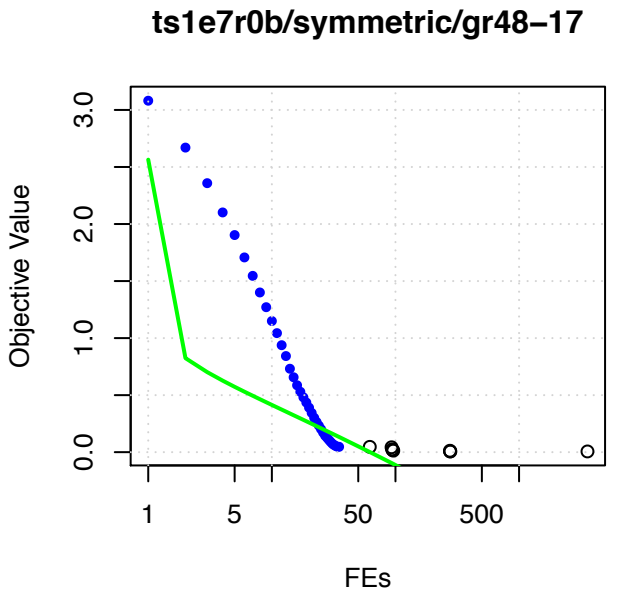
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−15
Objective Value
0.0
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−16
Objective Value
0.0
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
500
FEs


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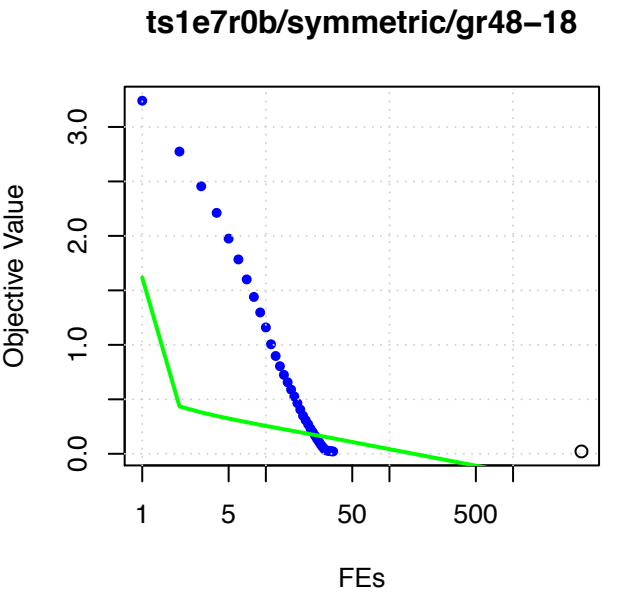
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−18
Objective Value
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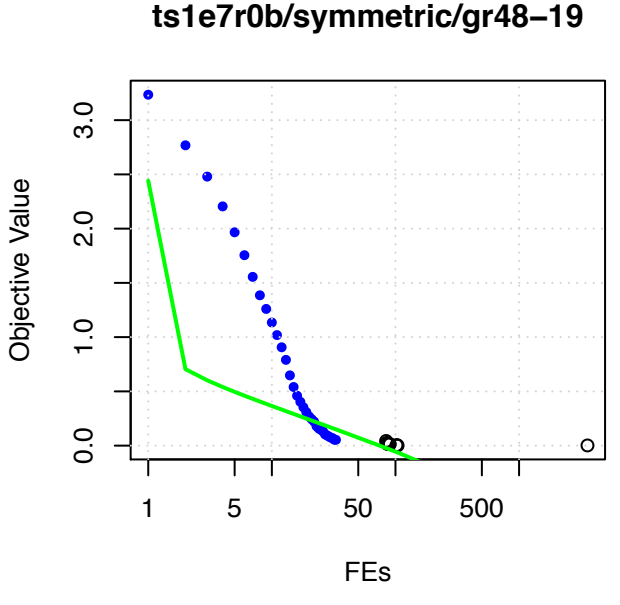
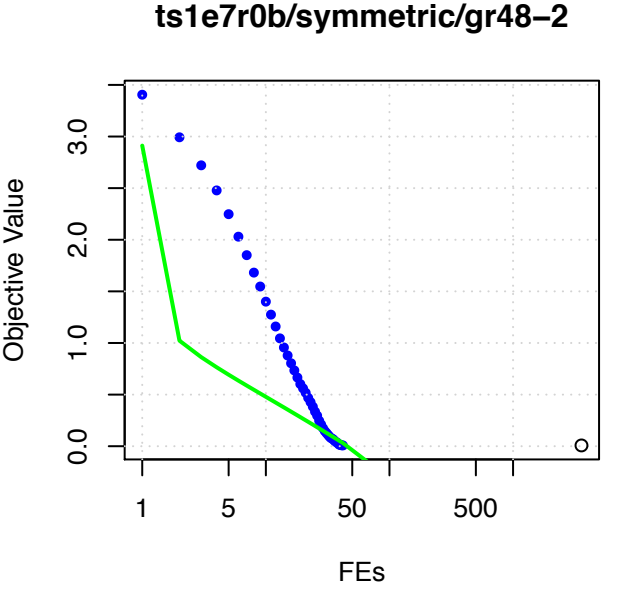
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−19
Objective Value
0.0
1.0
2.0
3.0
1
5
50
500
FEs


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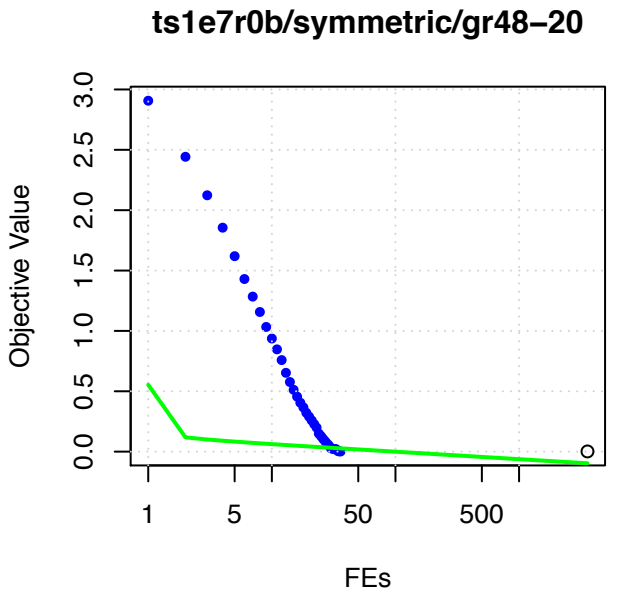
1.0
2.0
3.0
1
5
50
500
FEs


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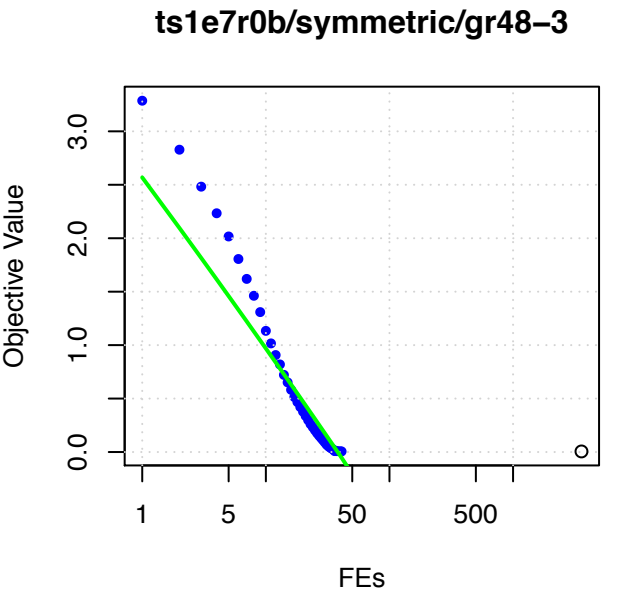
1.0
1.5
2.0
2.5
3.0
1
5
50
500
FEs


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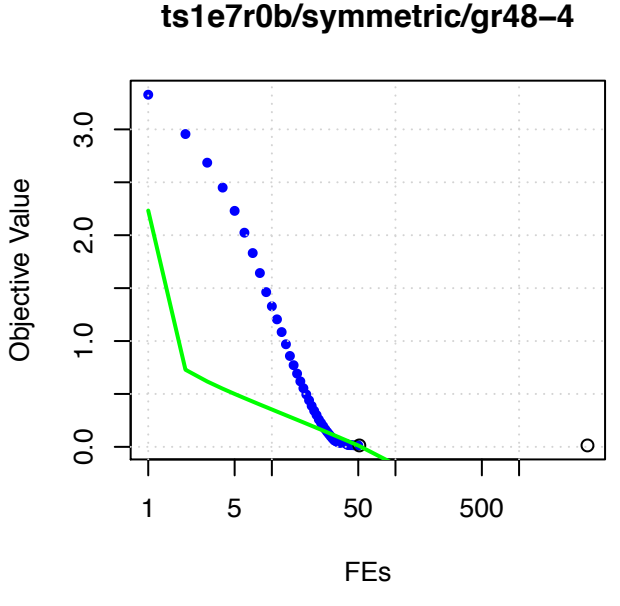
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−4
Objective Value
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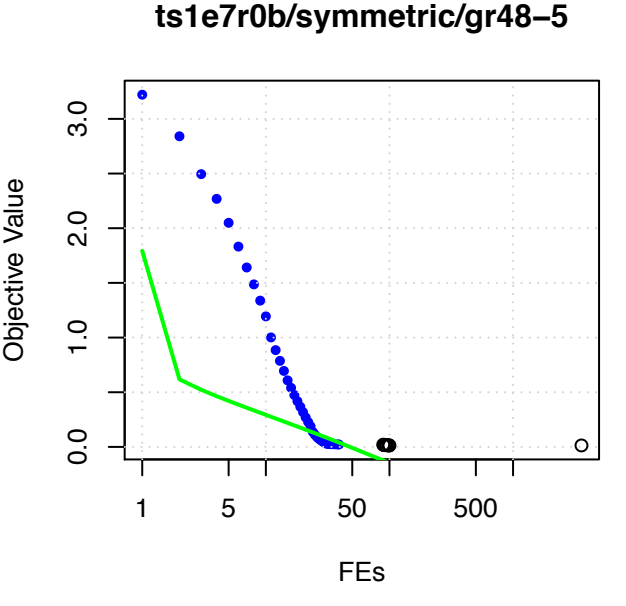
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−5
Objective Value
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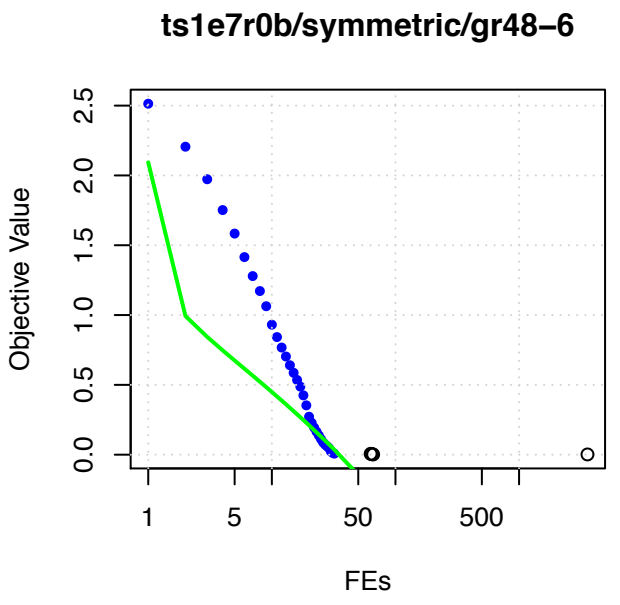
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−6
Objective Value
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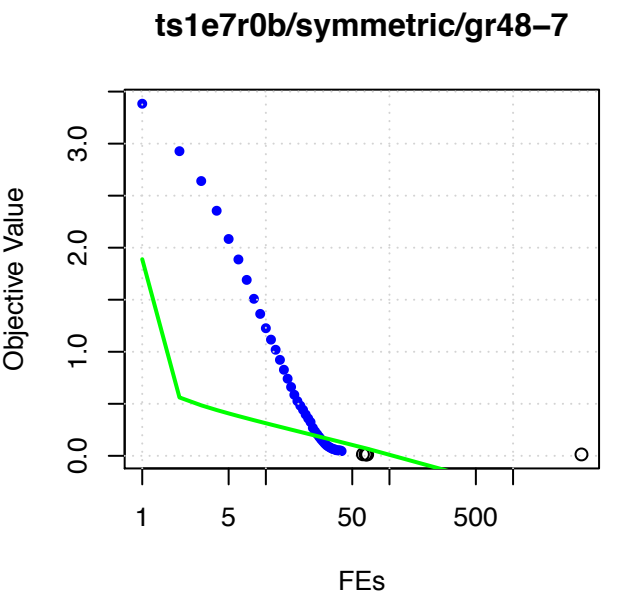
0.5
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−7
Objective Value
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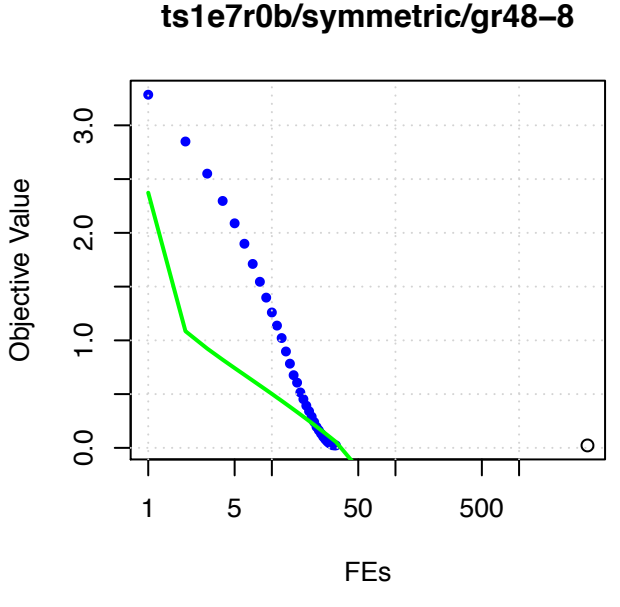
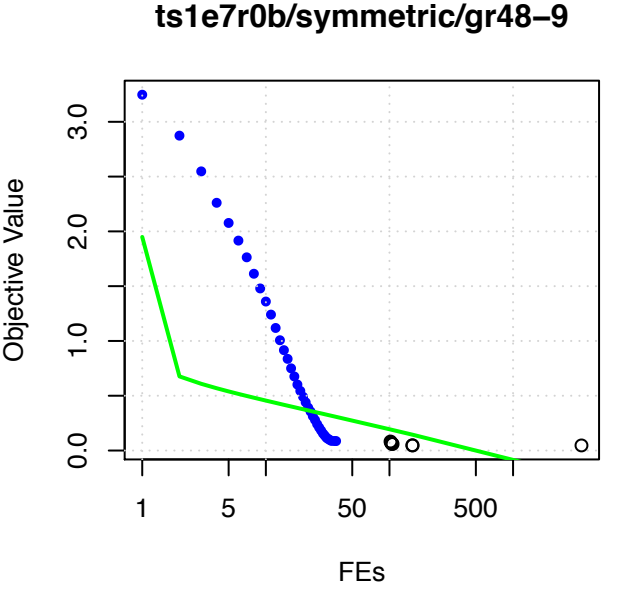
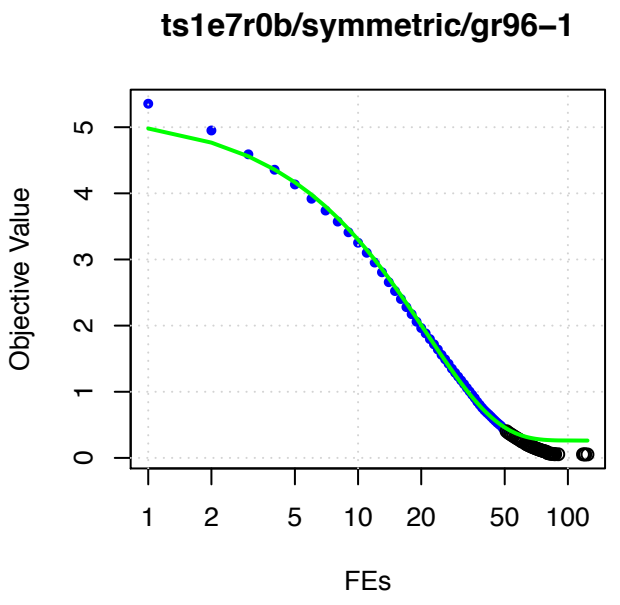
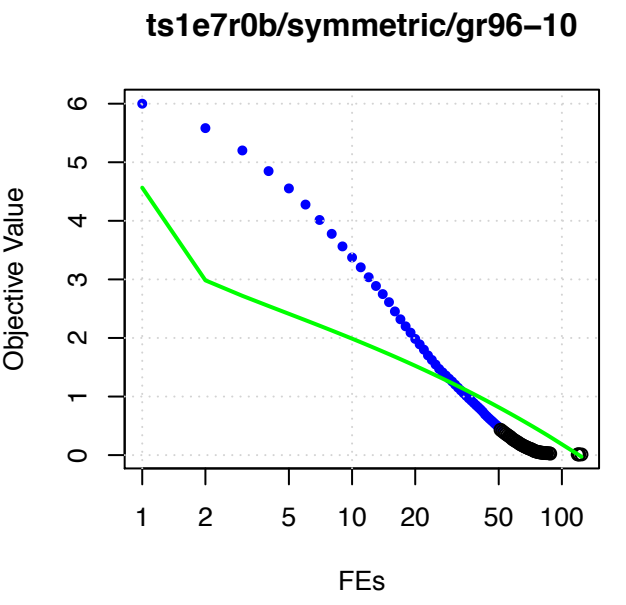
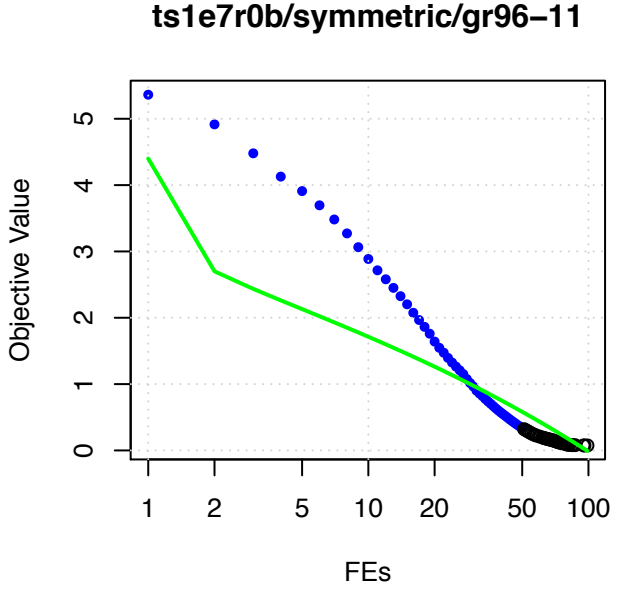
1.0
2.0
3.0
1
5
50
500
FEs

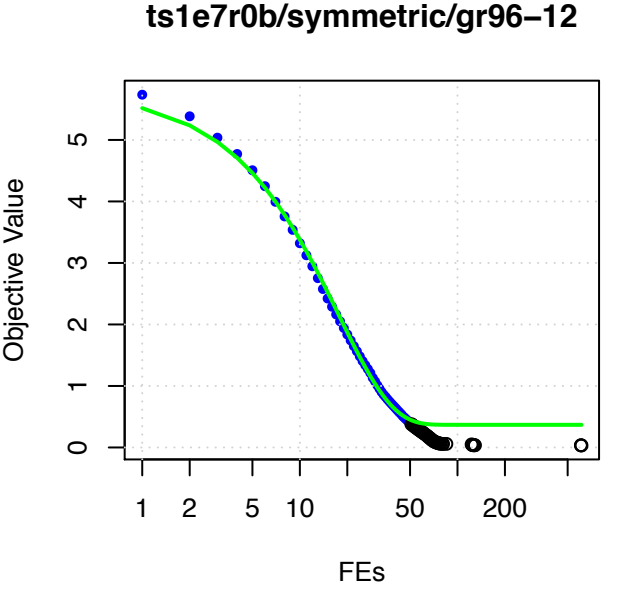

ts1e7r0b/symmetric/gr48−8
Objective Value
0.0
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/gr48−9
Objective Value
0.0
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/gr96−1
Objective Value
0
1
2
3
4
5
1
2
5
10
20
50
100
FEs


ts1e7r0b/symmetric/gr96−10
Objective Value
0
1
2
3
4
5
6
1
2
5
10
20
50
100
FEs


ts1e7r0b/symmetric/gr96−11
Objective Value
0
1
2
3
4
5
1
2
5
10
20
50
100
FEs


ts1e7r0b/symmetric/gr96−12
Objective Value
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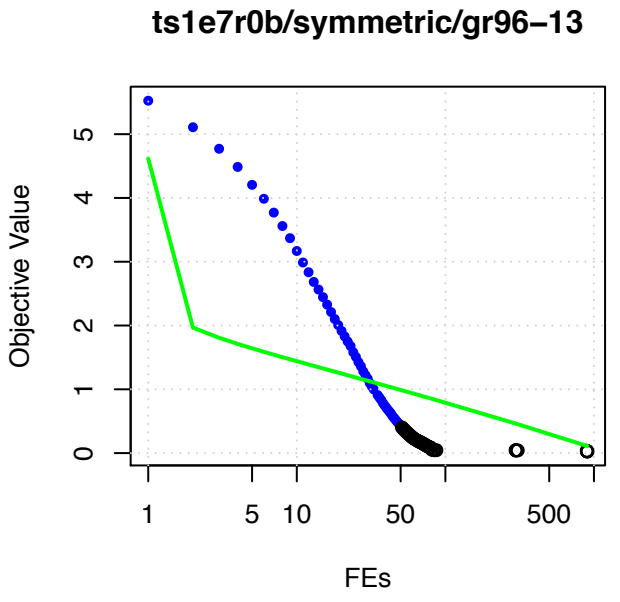
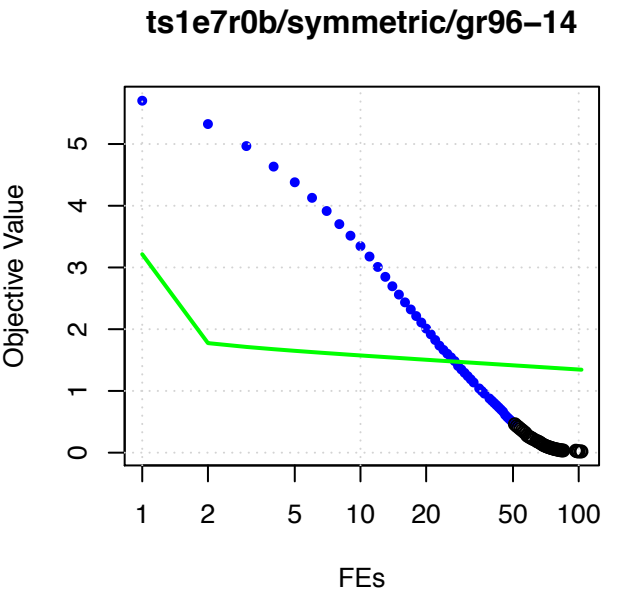
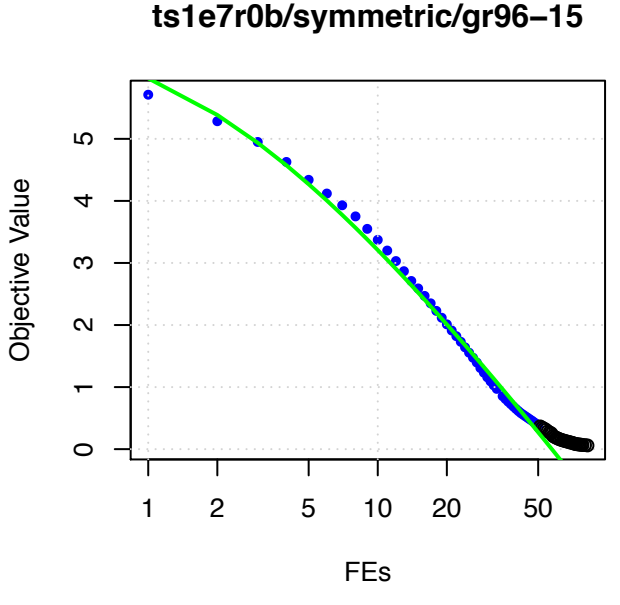
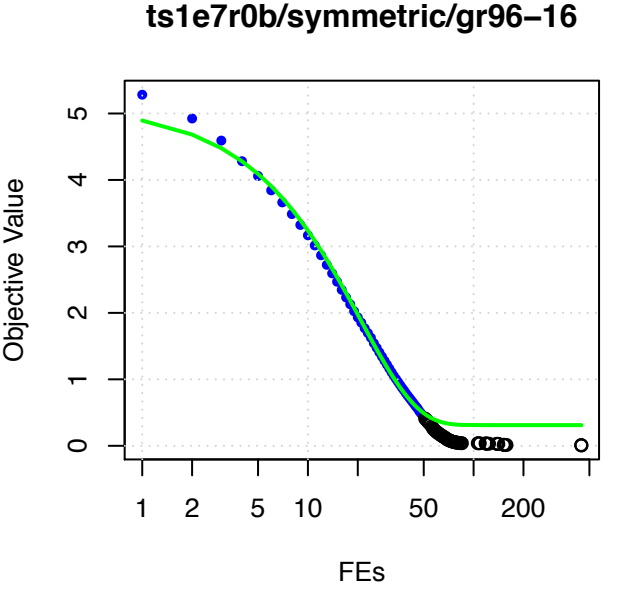
1
2
3
4
5
1
2
5
10
50
200
FEs


ts1e7r0b/symmetric/gr96−13
Objective Value
0
1
2
3
4
5
1
5
10
50
500
FEs


ts1e7r0b/symmetric/gr96−14
Objective Value
0
1
2
3
4
5
1
2
5
10
20
50
100
FEs


ts1e7r0b/symmetric/gr96−15
Objective Value
0
1
2
3
4
5
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/gr96−16
Objective Value
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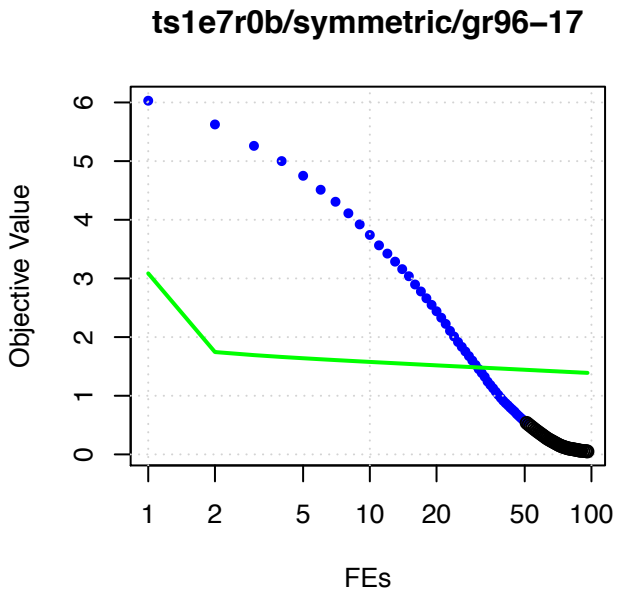
FEs


ts1e7r0b/symmetric/gr96−17
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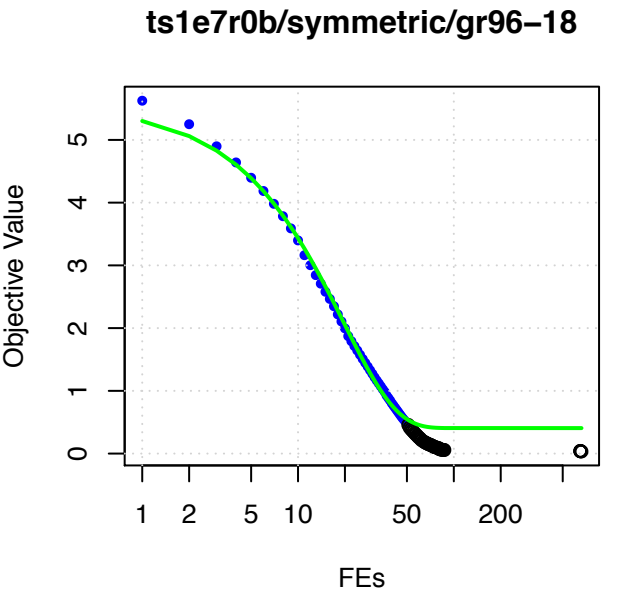
FEs


ts1e7r0b/symmetric/gr96−18
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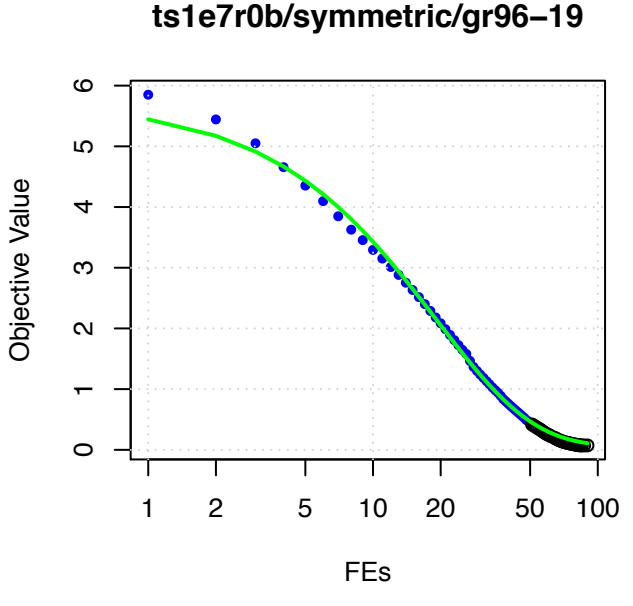
FEs


ts1e7r0b/symmetric/gr96−19
Objective Value
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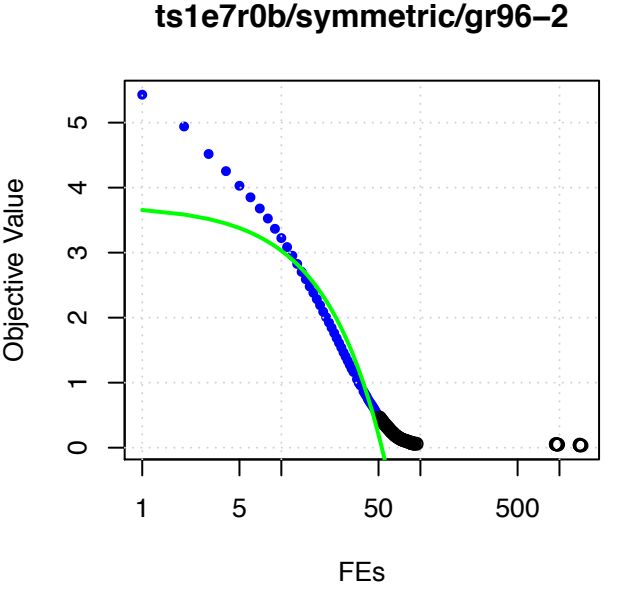
ts1e7r0b/symmetric/gr96−2
Objective Value
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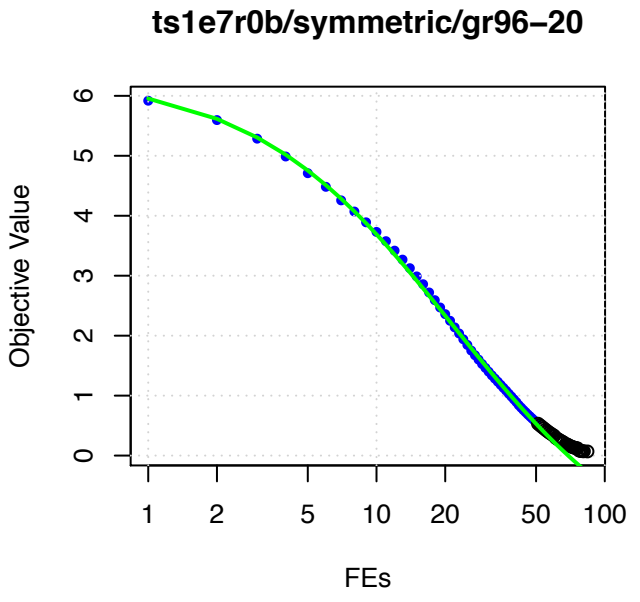
500
FEs


ts1e7r0b/symmetric/gr96−20
Objective Value
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20
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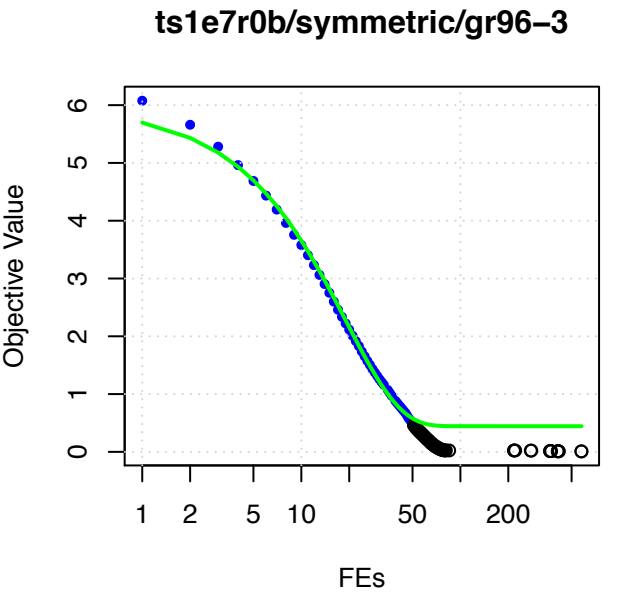
100
FEs


ts1e7r0b/symmetric/gr96−3
Objective Value
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10
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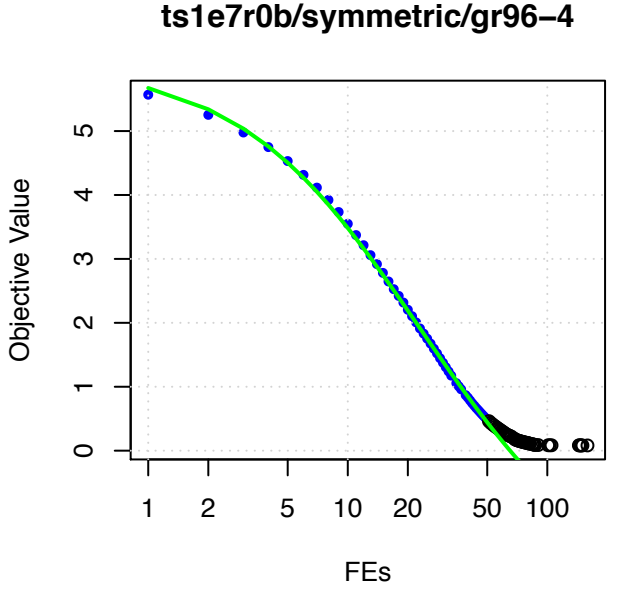
200
FEs


ts1e7r0b/symmetric/gr96−4
Objective Value
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4
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2
5
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20
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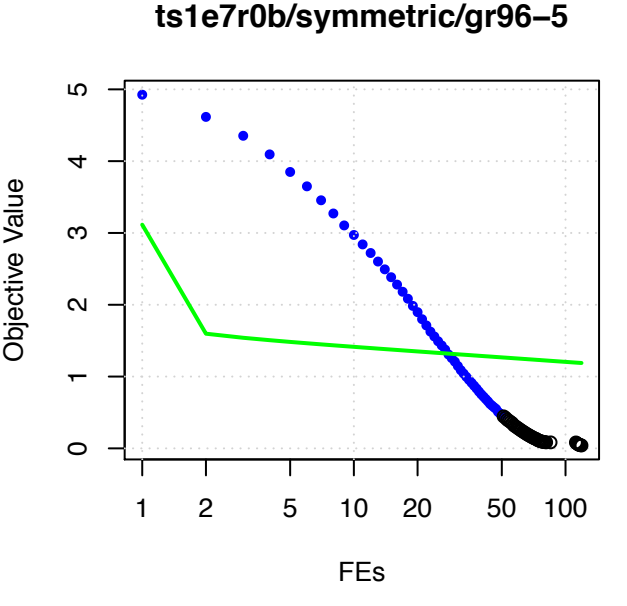
100
FEs


ts1e7r0b/symmetric/gr96−5
Objective Value
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4
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2
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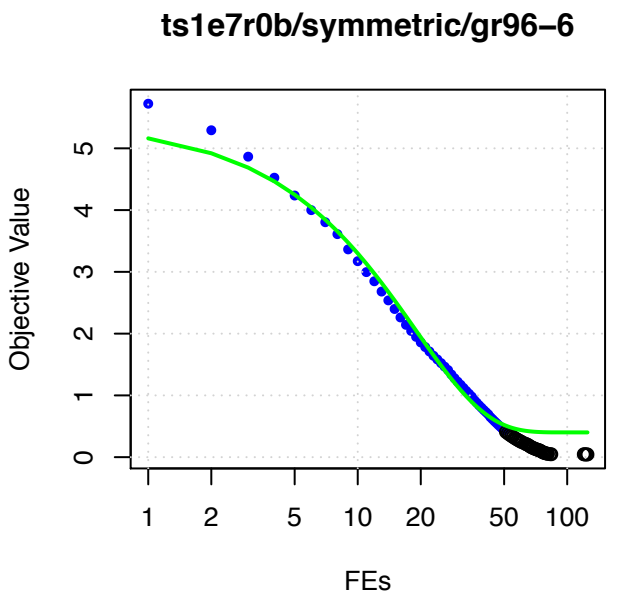
10
20
50
100
FEs


ts1e7r0b/symmetric/gr96−6
Objective Value
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2
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1
2
5
10
20
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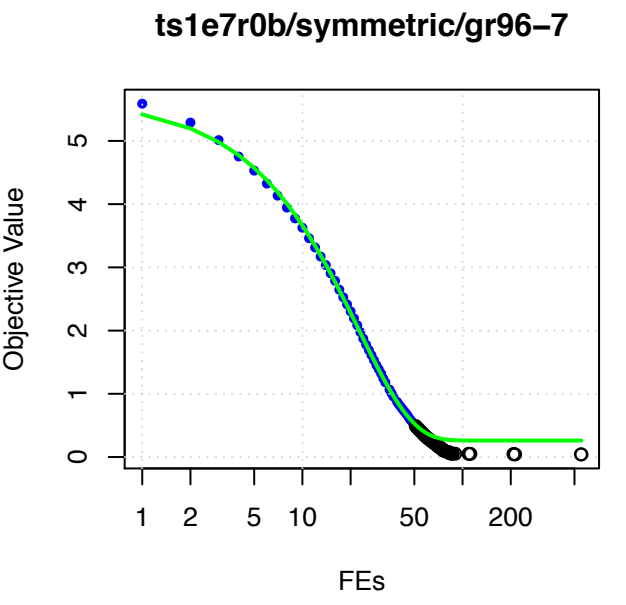
100
FEs


ts1e7r0b/symmetric/gr96−7
Objective Value
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3
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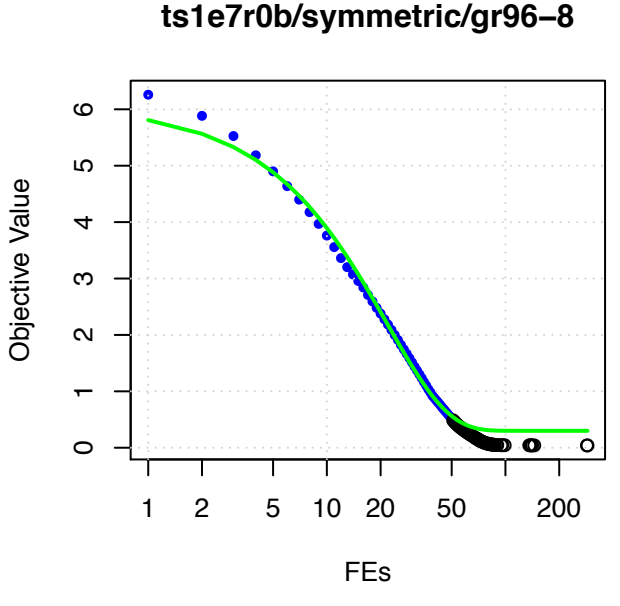
1
2
5
10
50
200
FEs


ts1e7r0b/symmetric/gr96−8
Objective Value
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2
3
4
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6
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2
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20
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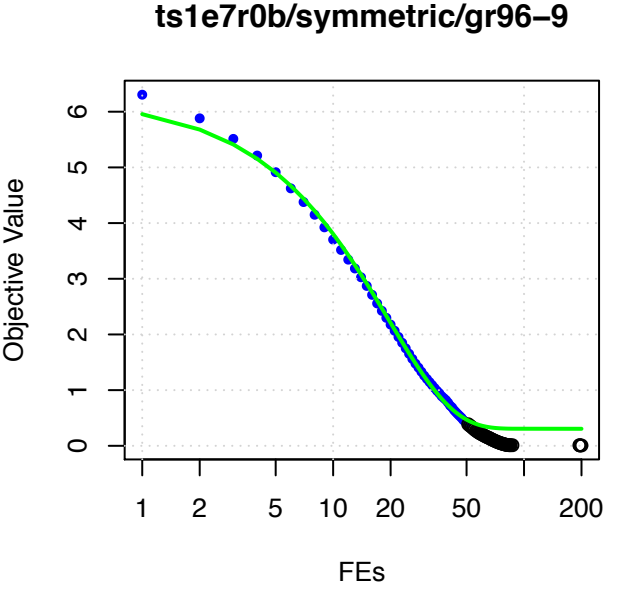
200
FEs


ts1e7r0b/symmetric/gr96−9
Objective Value
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3
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5
6
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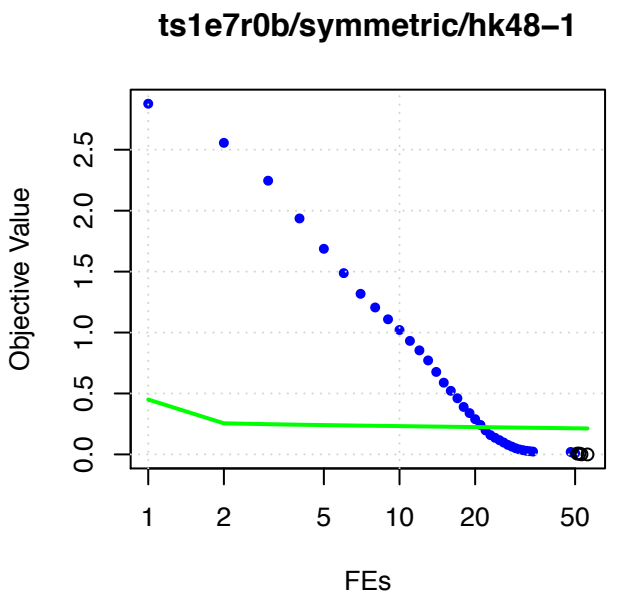
2
5
10
20
50
200
FEs


ts1e7r0b/symmetric/hk48−1
Objective Value
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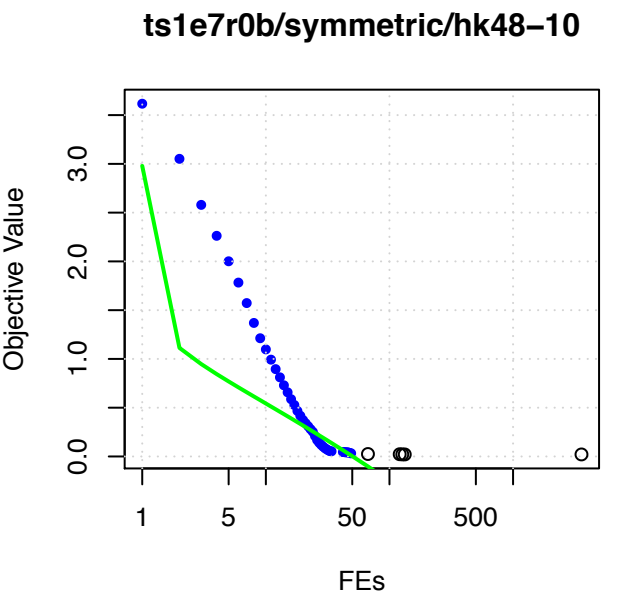
0.5
1.0
1.5
2.0
2.5
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/hk48−10
Objective Value
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1
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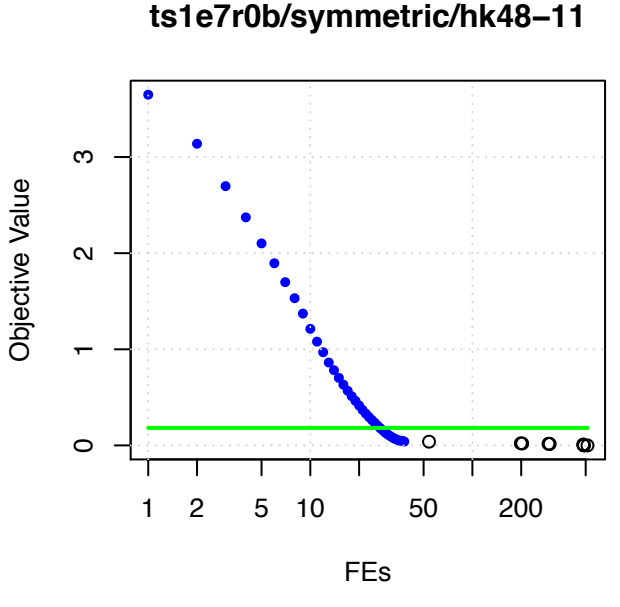
500
FEs


ts1e7r0b/symmetric/hk48−11
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3
1
2
5
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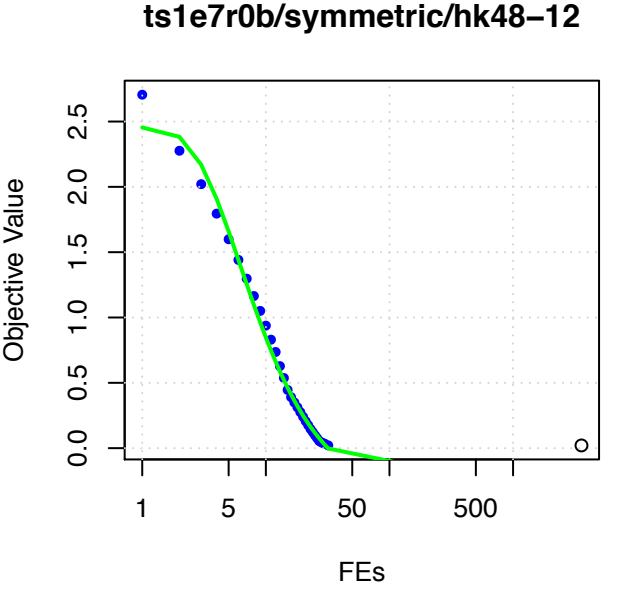
50
200
FEs


ts1e7r0b/symmetric/hk48−12
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1.5
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2.5
1
5
50
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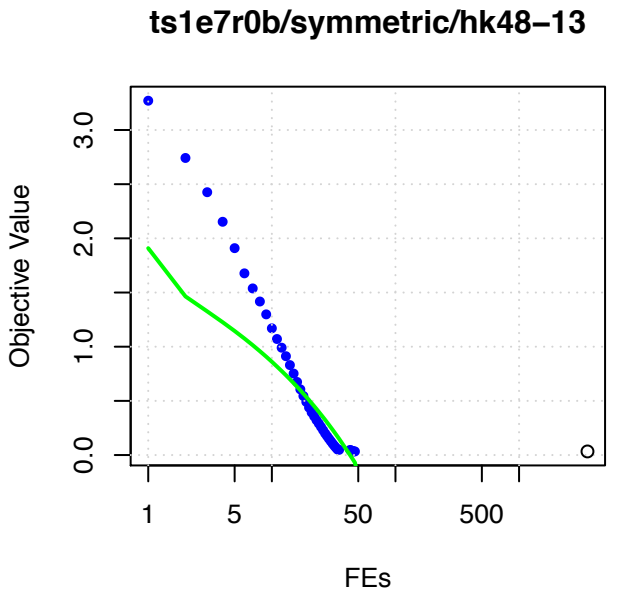
FEs


ts1e7r0b/symmetric/hk48−13
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2.0
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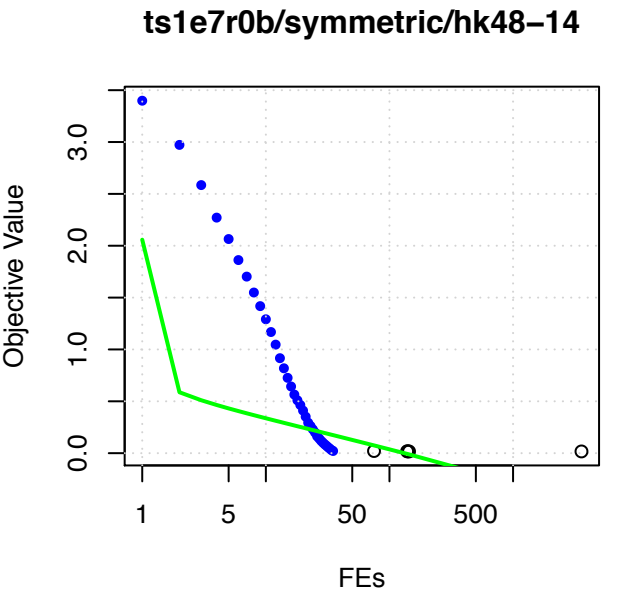
5
50
500
FEs


ts1e7r0b/symmetric/hk48−14
Objective Value
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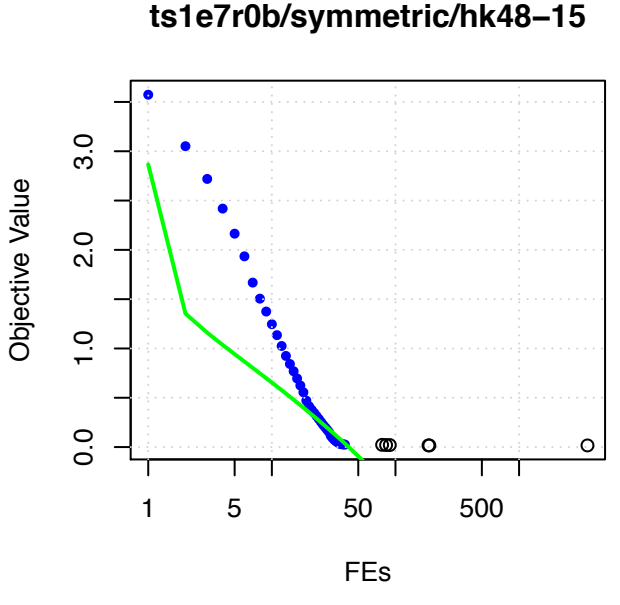
5
50
500
FEs


ts1e7r0b/symmetric/hk48−15
Objective Value
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1.0
2.0
3.0
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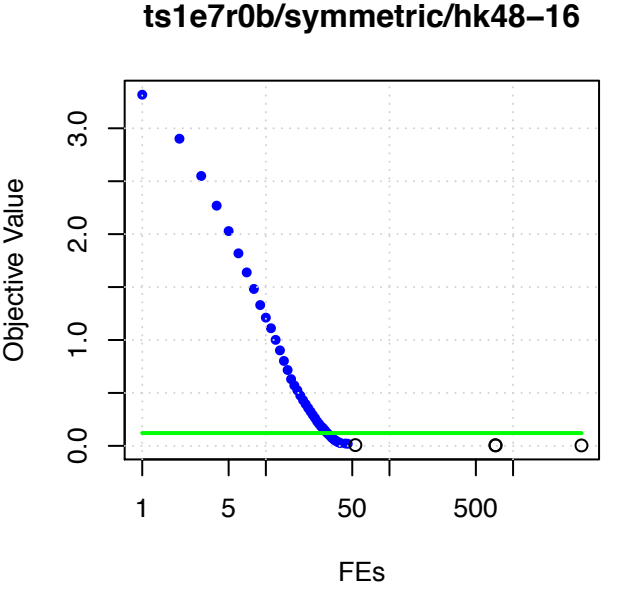
5
50
500
FEs


ts1e7r0b/symmetric/hk48−16
Objective Value
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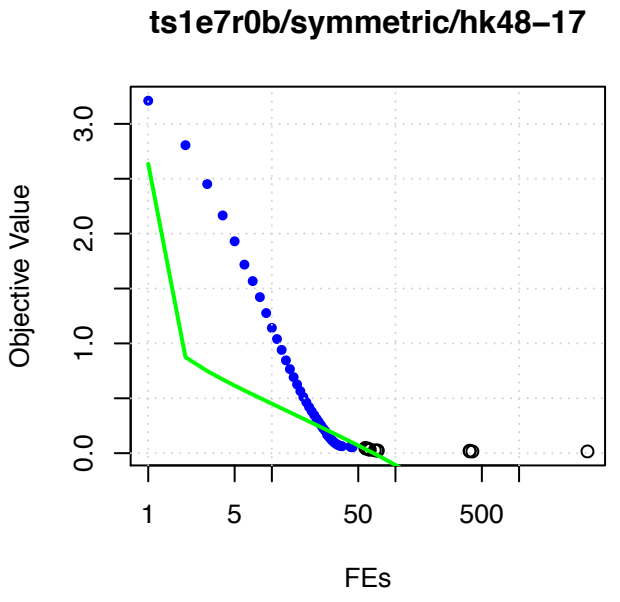
50
500
FEs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Objective Value
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2.0
3.0
1
5
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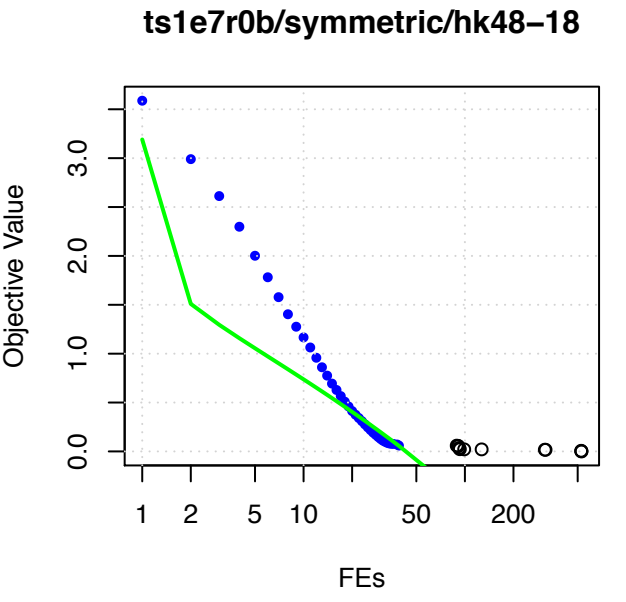
500
FEs


ts1e7r0b/symmetric/hk48−18
Objective Value
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2
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10
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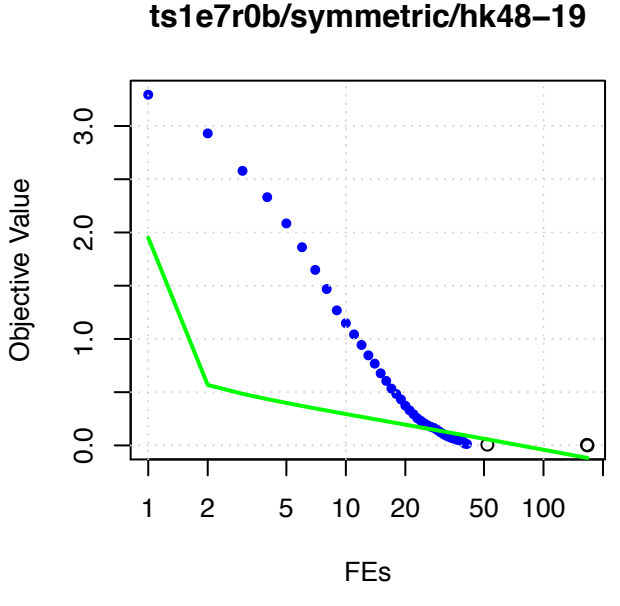
200
FEs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Objective Value
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2.0
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2
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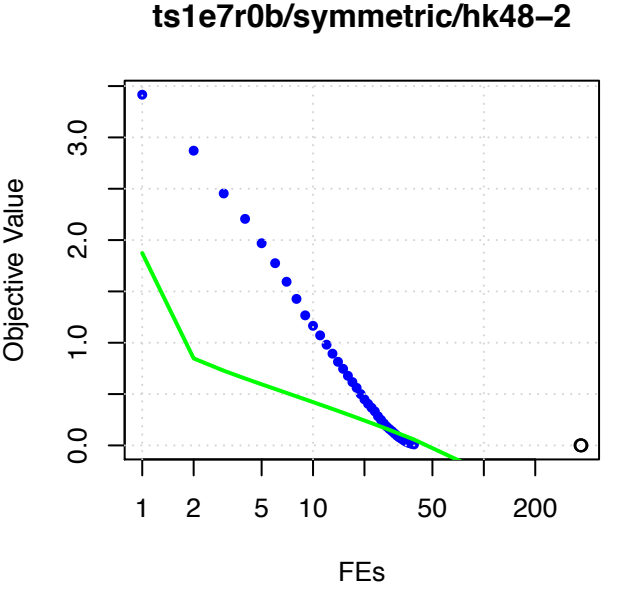
10
20
50
100
FEs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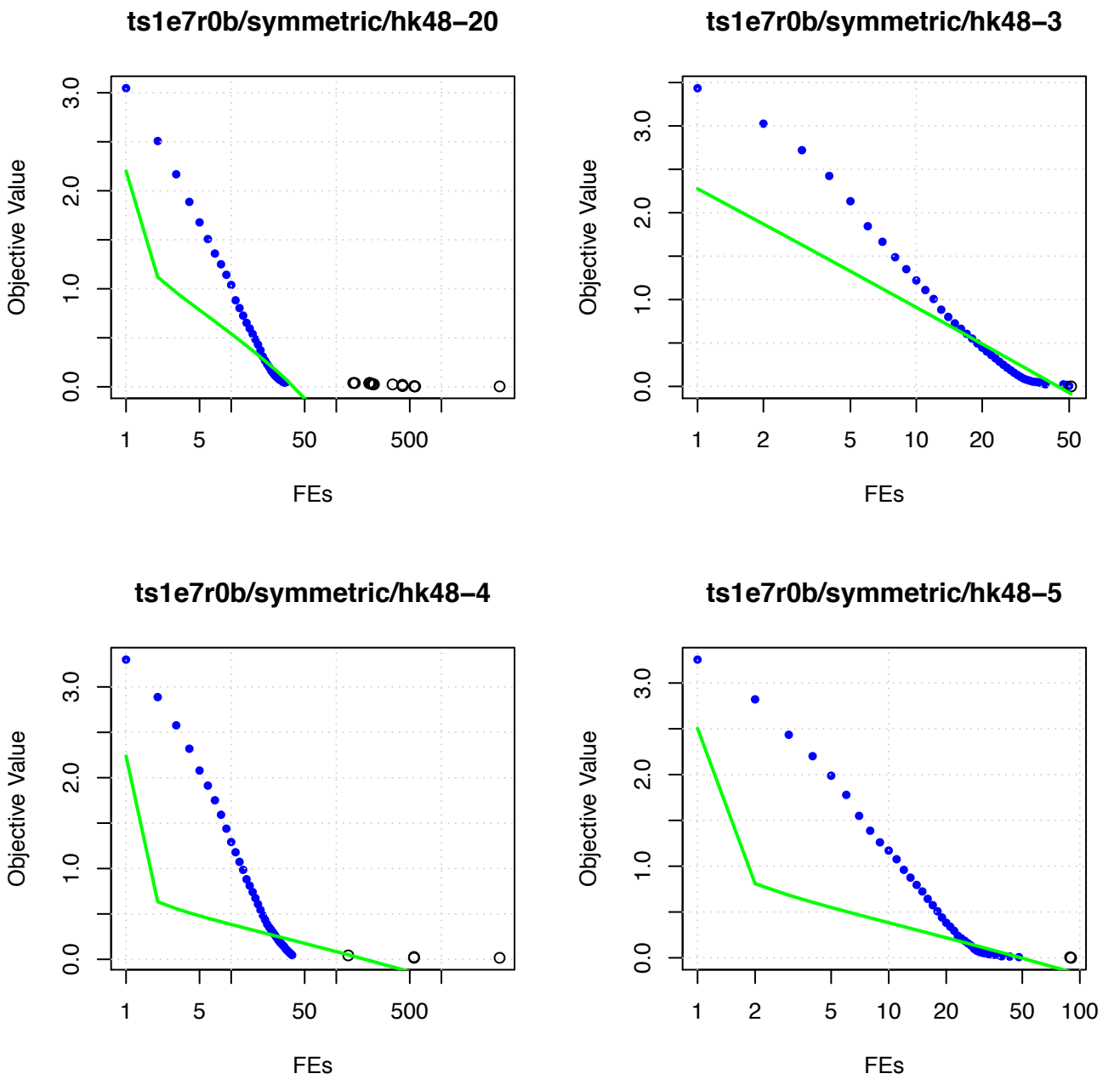
FEs


ts1e7r0b/symmetric/hk48−20
ts1e7r0b/symmetric/hk48−3
ts1e7r0b/symmetric/hk48−4
ts1e7r0b/symmetric/hk48−5
Objective Value
FEs
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3.0
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2
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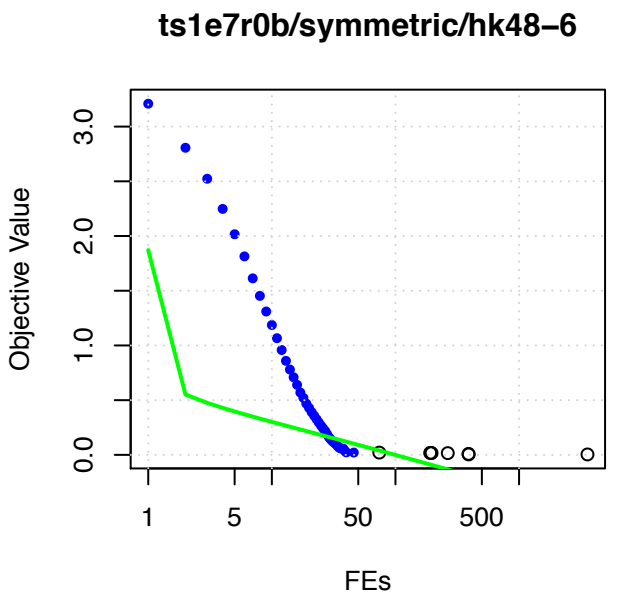
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Objective Value
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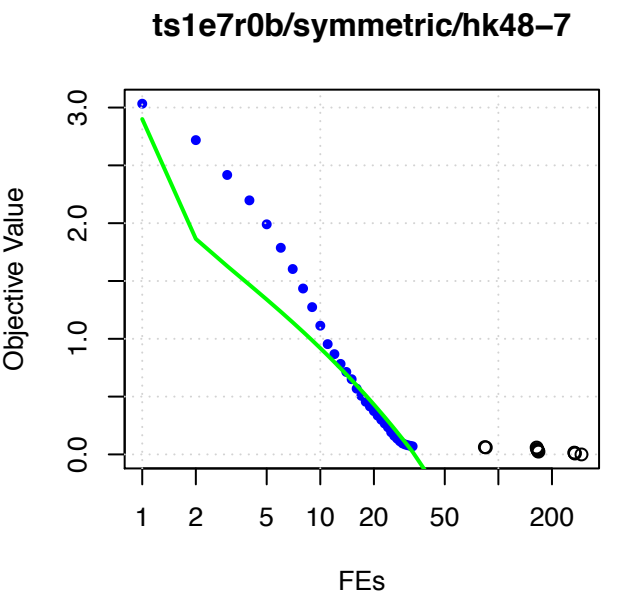
ts1e7r0b/symmetric/hk48−7
Objective Value
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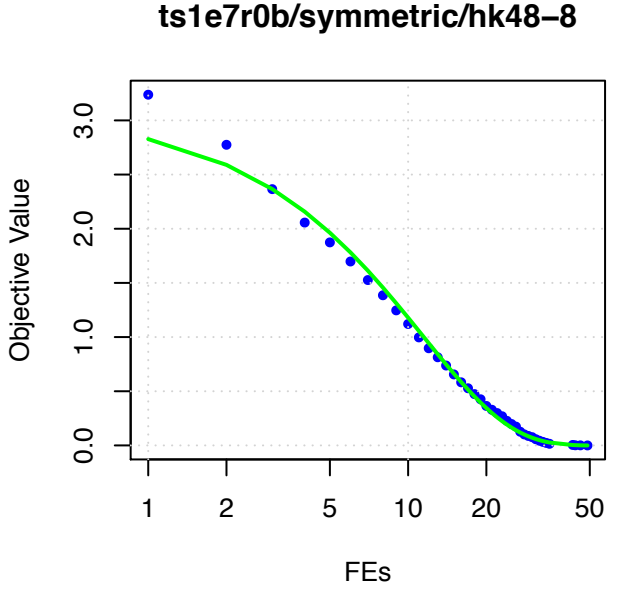
FEs


ts1e7r0b/symmetric/hk48−8
Objective Value
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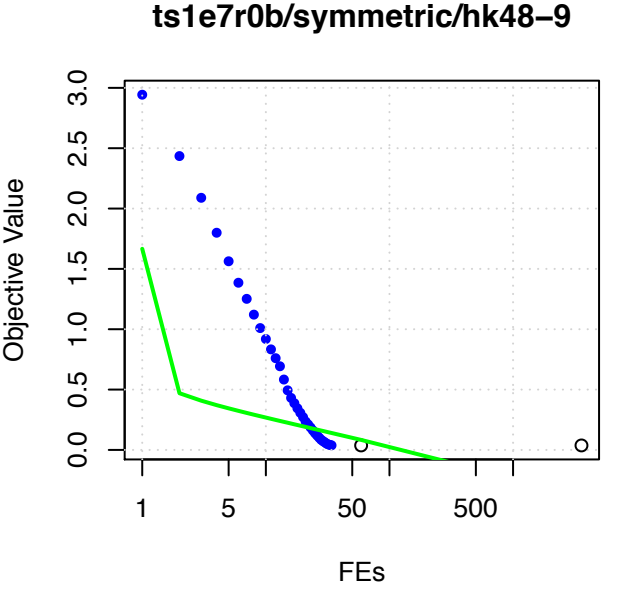
ts1e7r0b/symmetric/hk48−9
Objective Value
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1.5
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2.5
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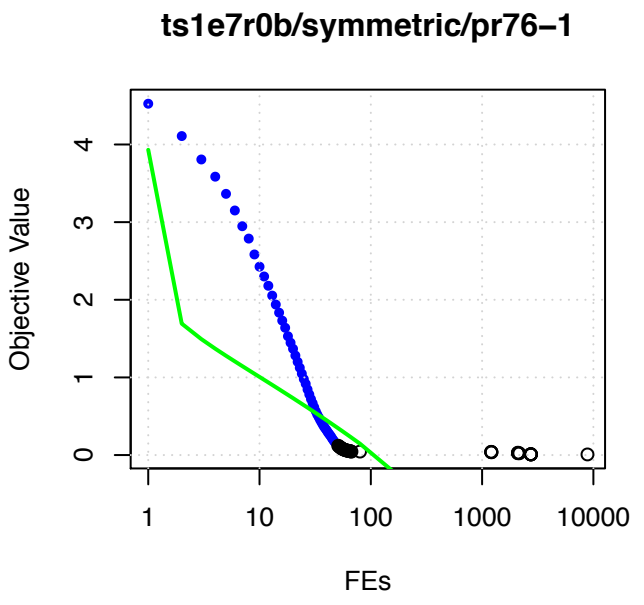
500
FEs


ts1e7r0b/symmetric/pr76−1
Objective Value
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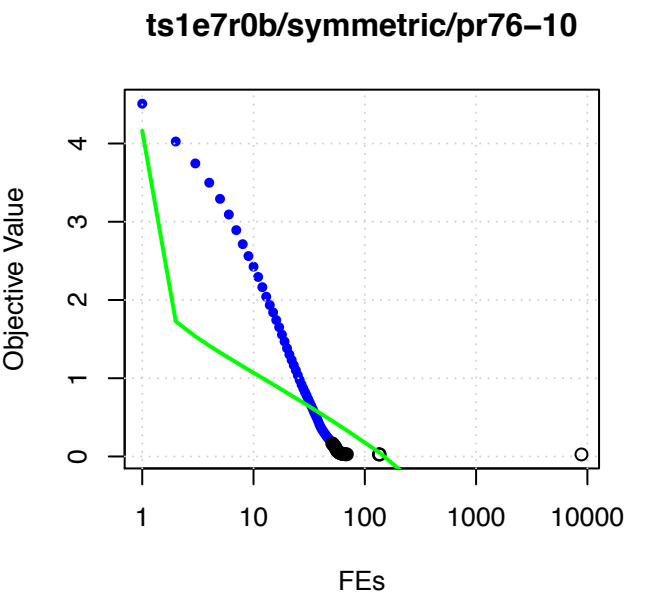
100
1000
10000
FEs


ts1e7r0b/symmetric/pr76−10
Objective Value
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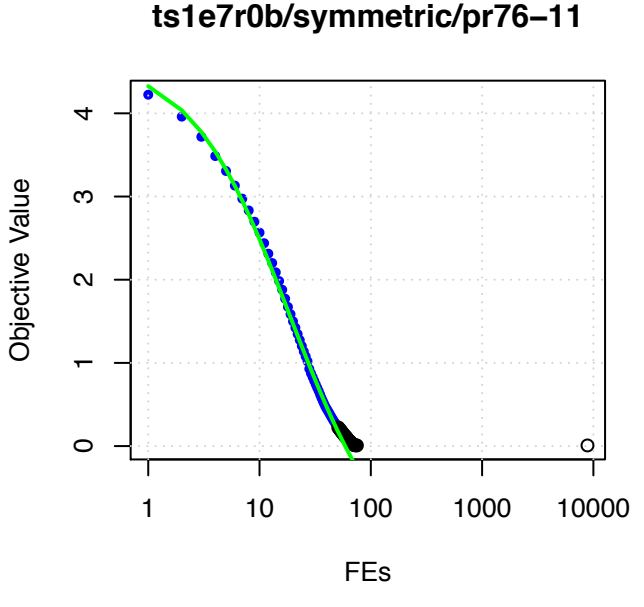
1000
10000
FEs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Objective Value
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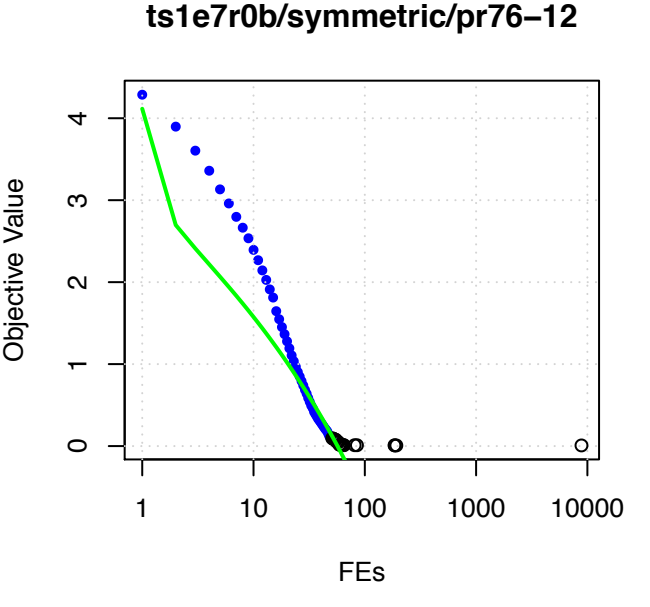
10000
FEs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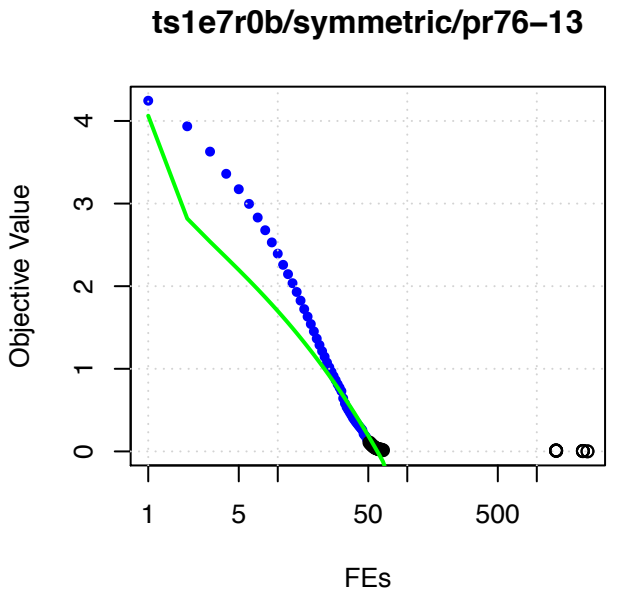
ts1e7r0b/symmetric/pr76−13
Objective Value
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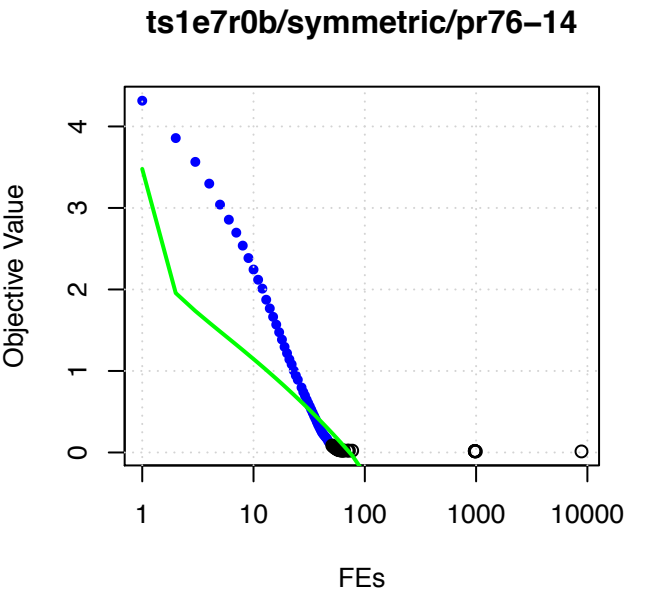
FEs


ts1e7r0b/symmetric/pr76−14
Objective Value
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1000
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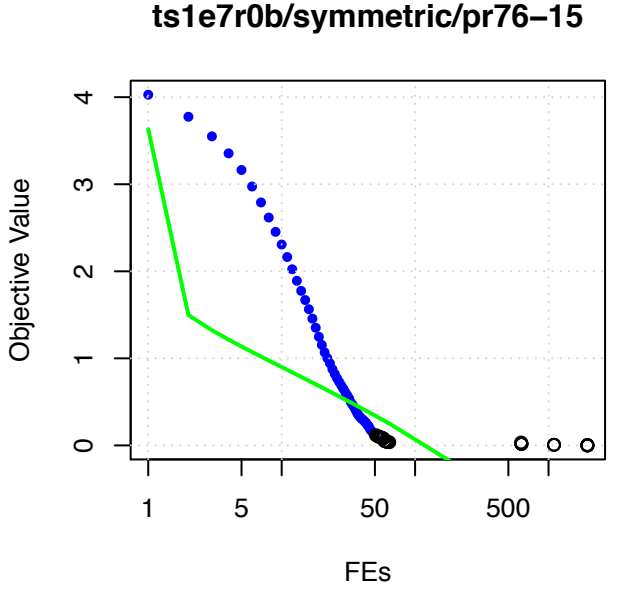
FEs


ts1e7r0b/symmetric/pr76−15
Objective Value
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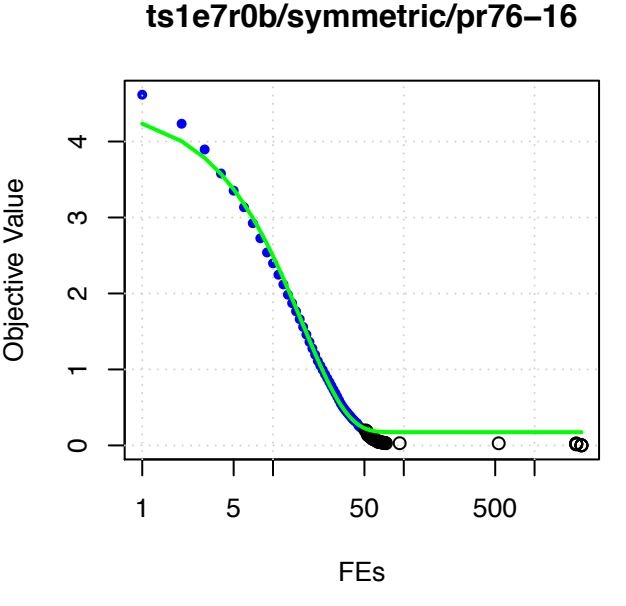
FEs


ts1e7r0b/symmetric/pr76−16
Objective Value
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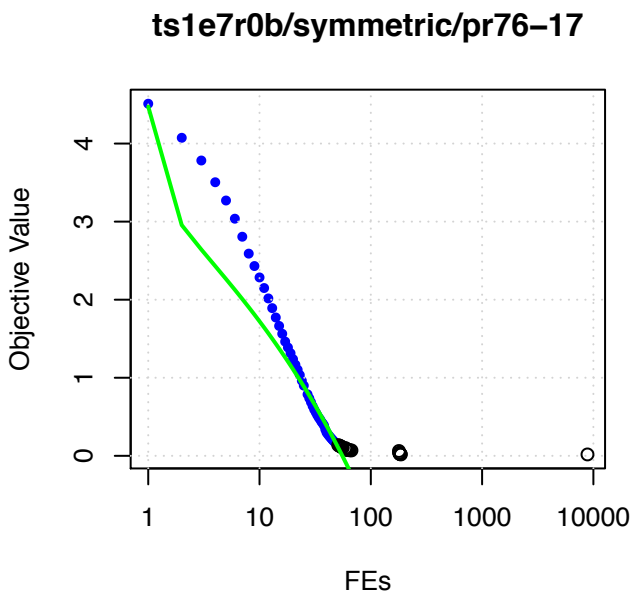
FEs


ts1e7r0b/symmetric/pr76−17
Objective Value
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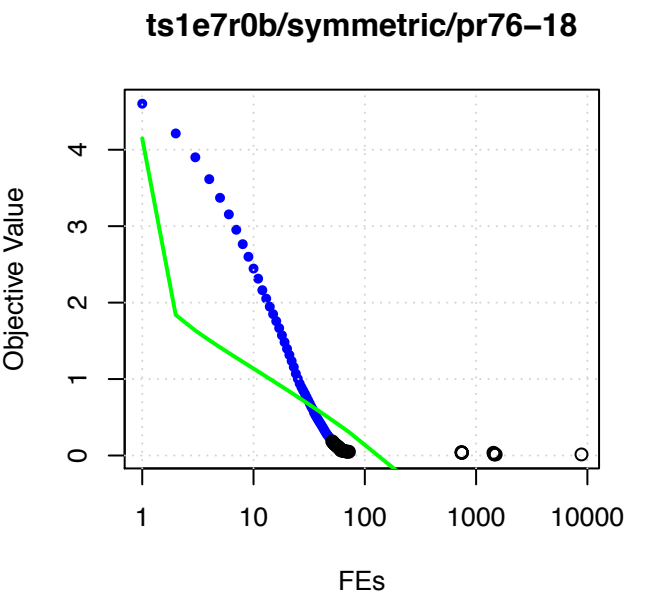
FEs


ts1e7r0b/symmetric/pr76−18
Objective Value
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4
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10
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1000
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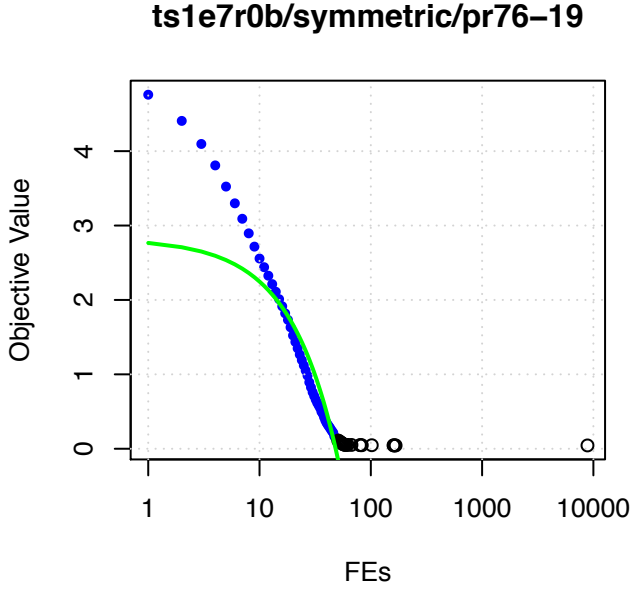
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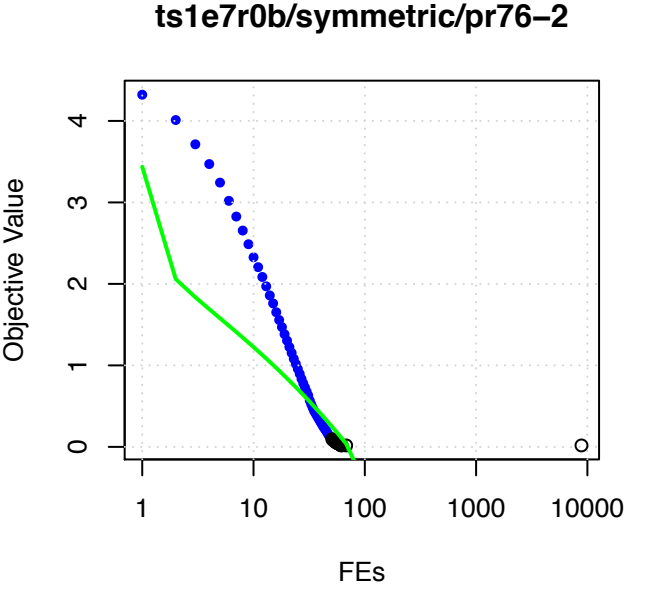
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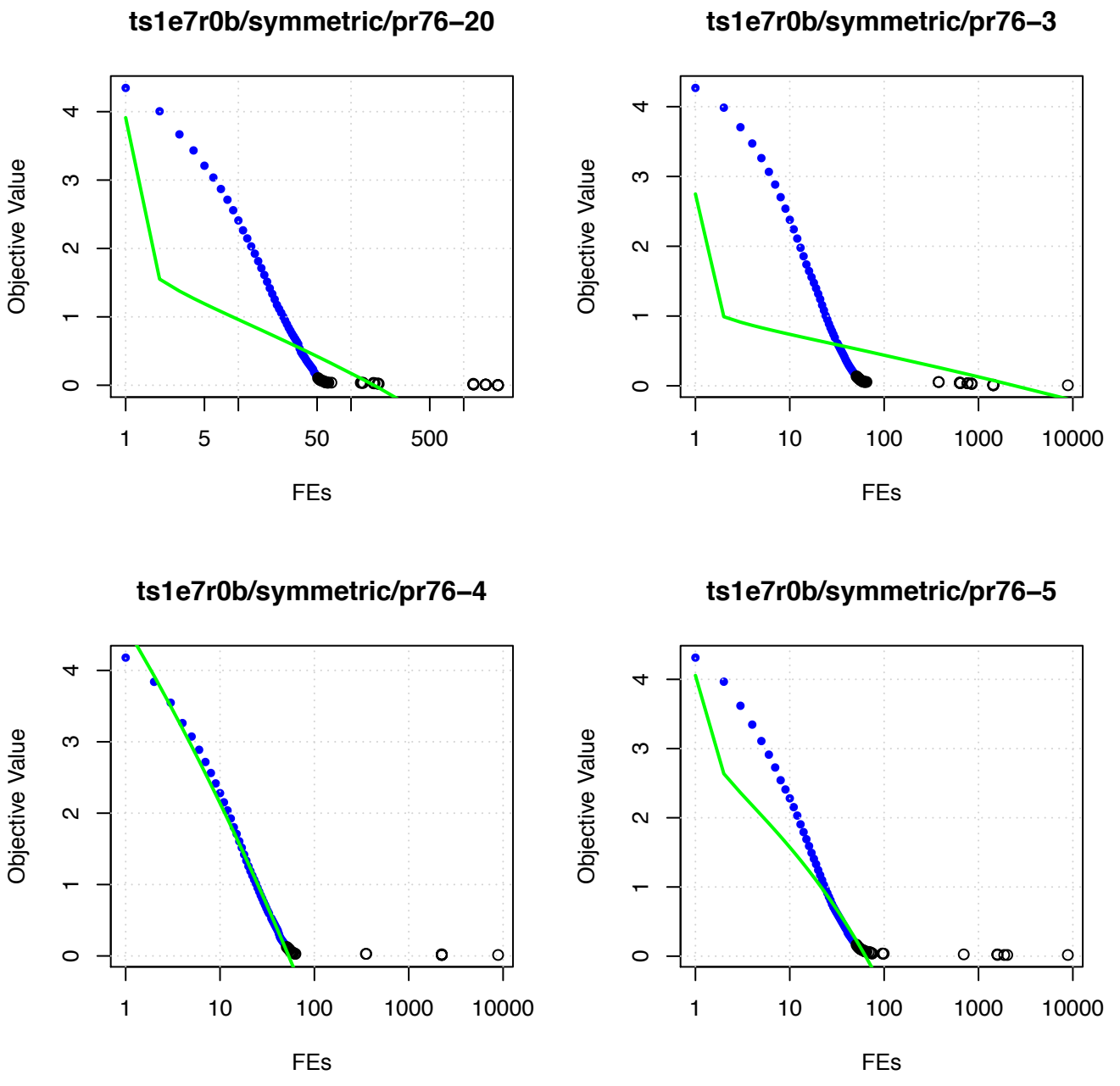
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ts1e7r0b/symmetric/pr76−3
ts1e7r0b/symmetric/pr76−4
ts1e7r0b/symmetric/pr76−5
Objective Value
FEs
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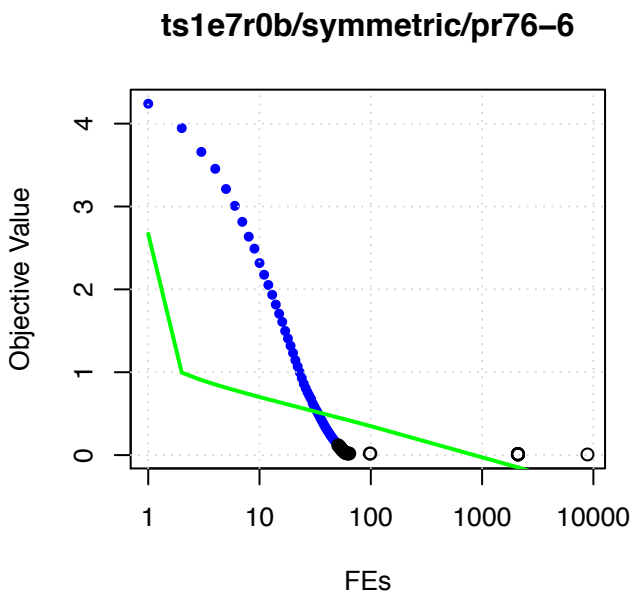
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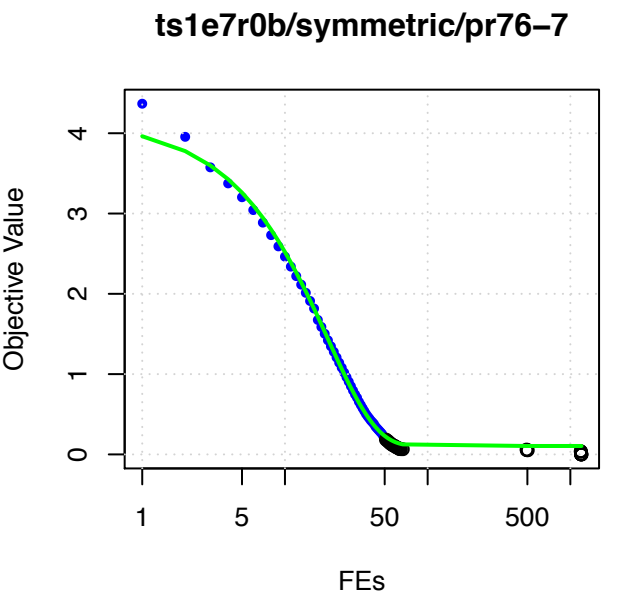
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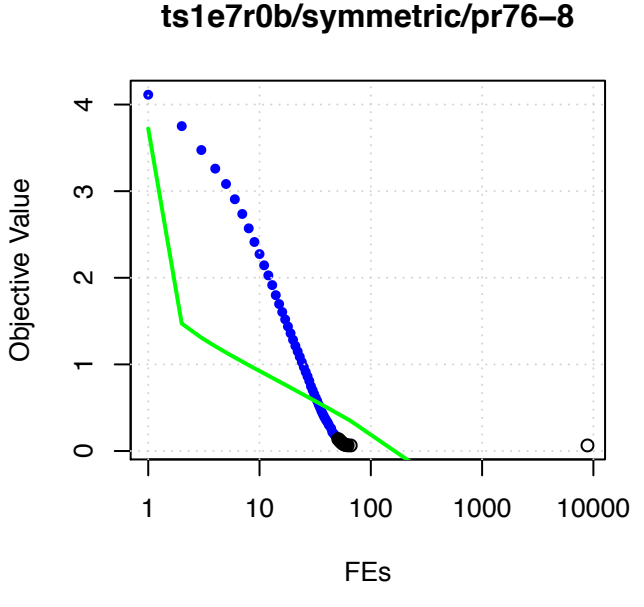
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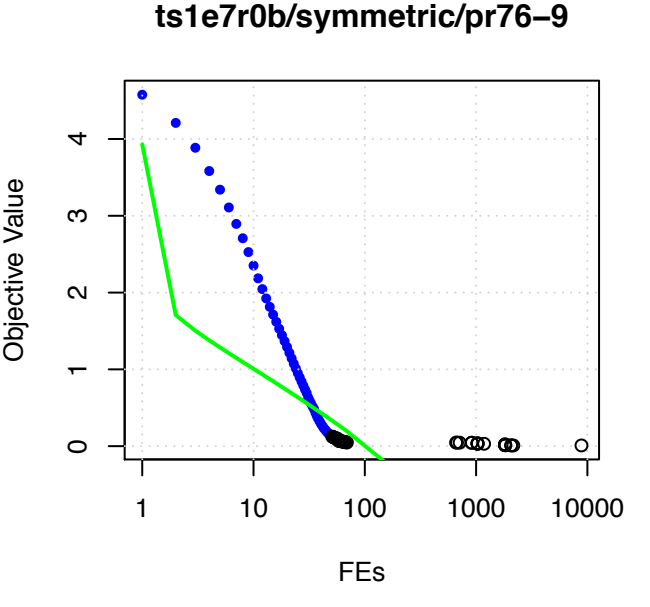
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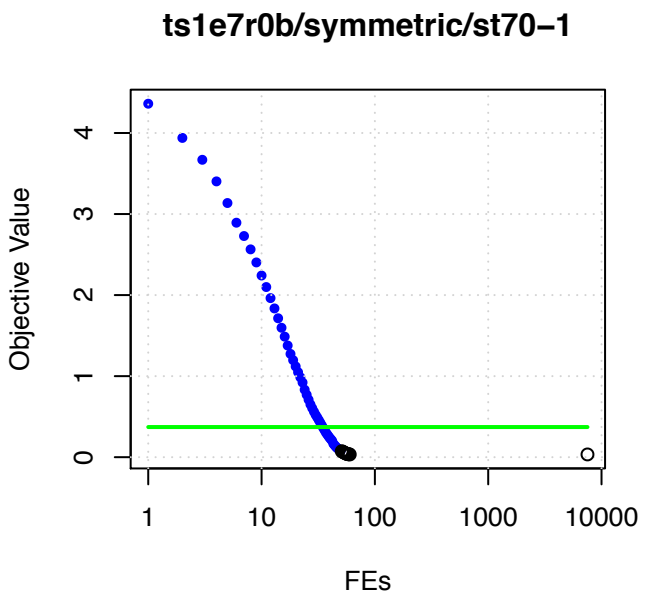
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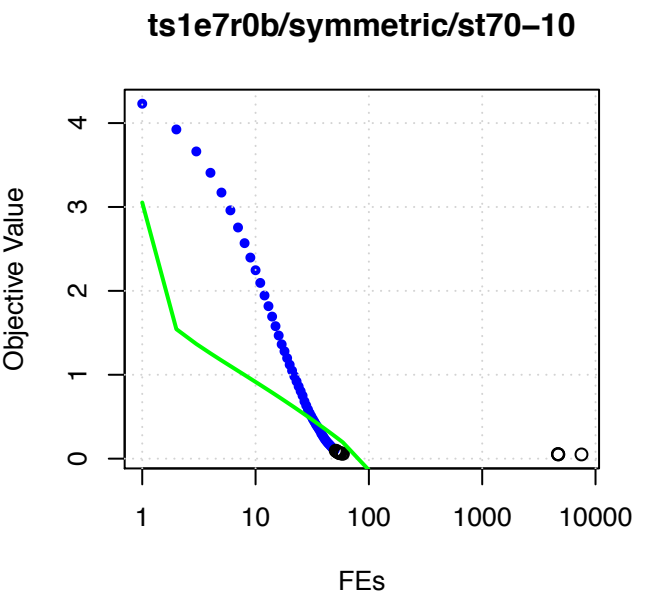
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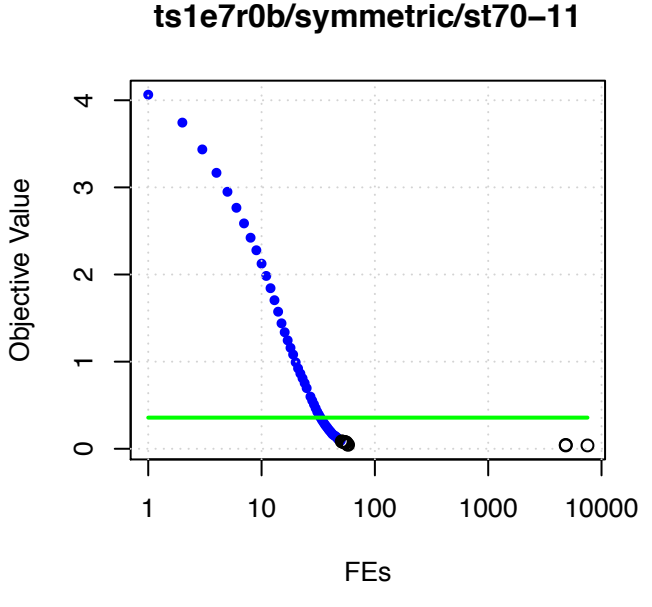
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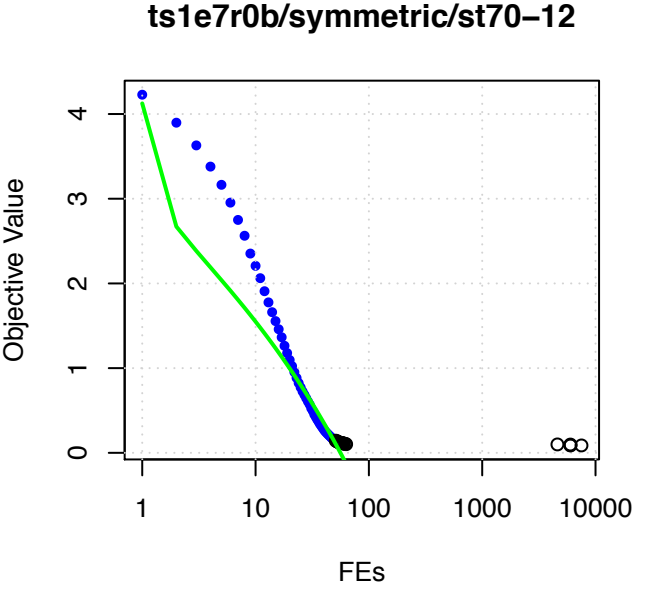
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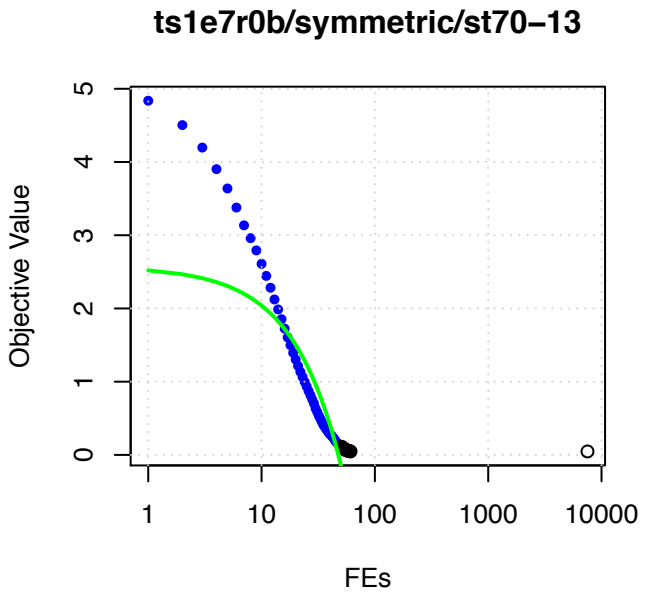
FEs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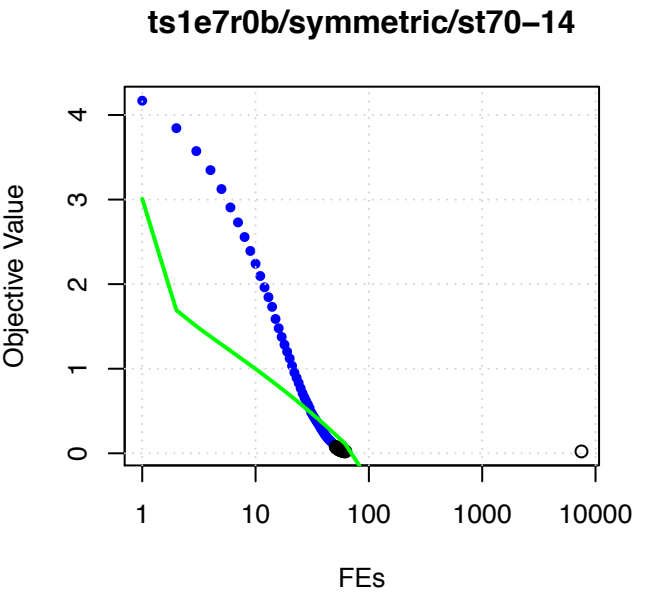
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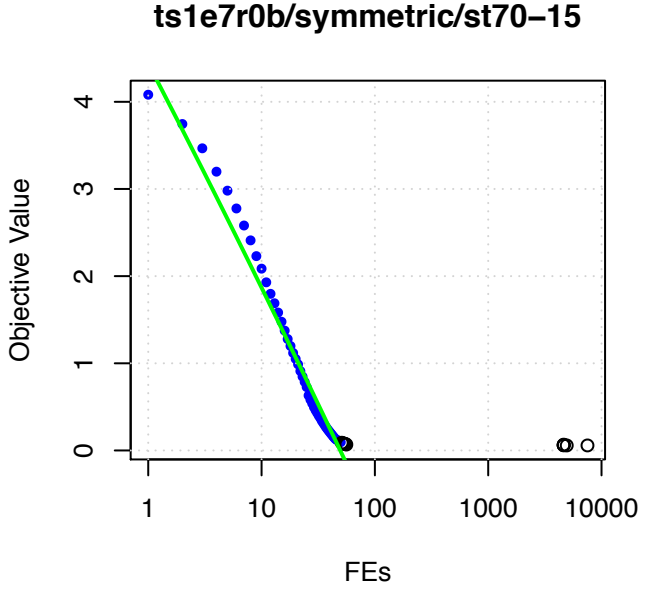
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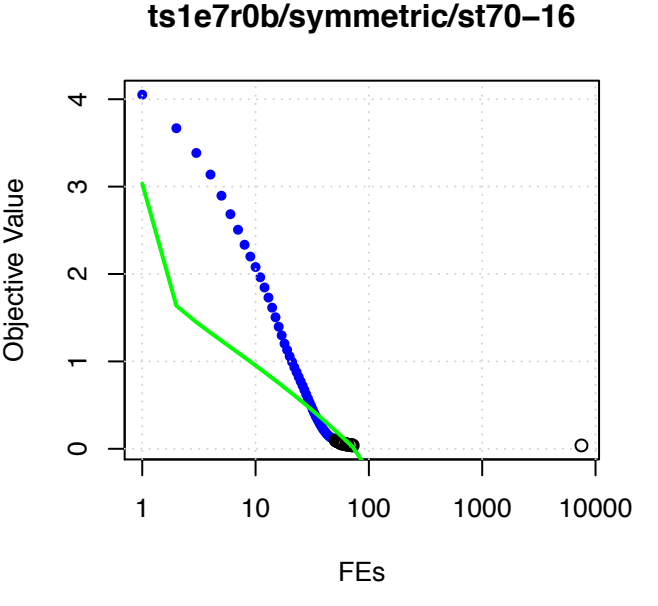
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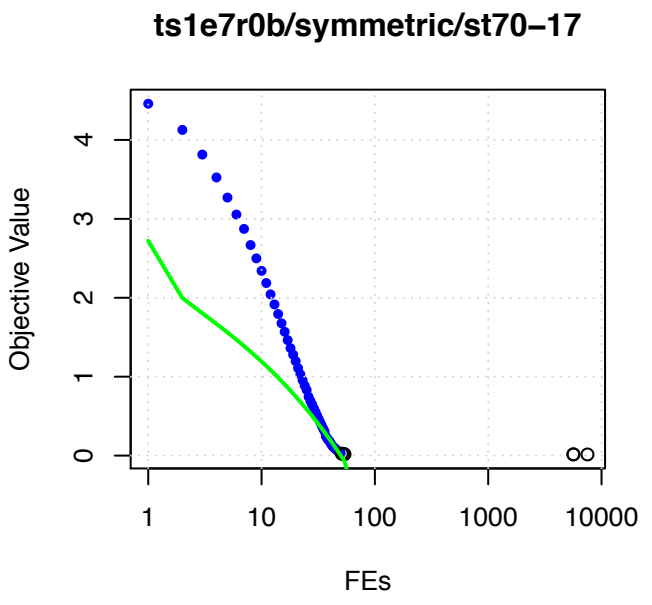
ts1e7r0b/symmetric/st70−17
Objective Value
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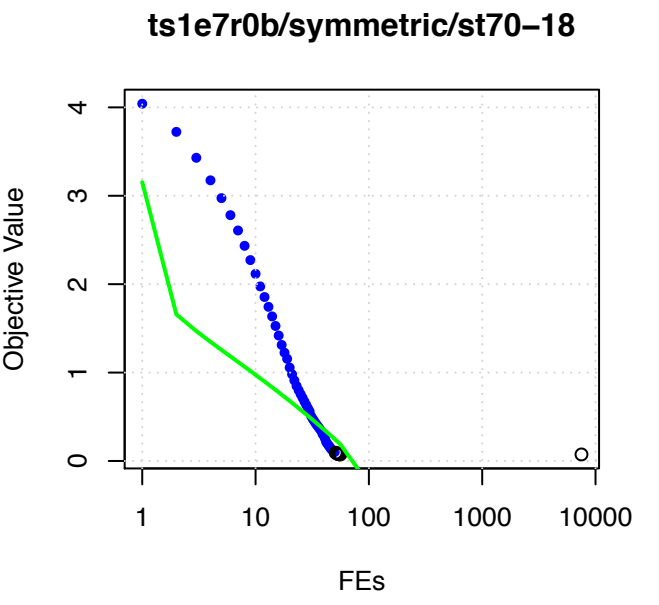
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Objective Value
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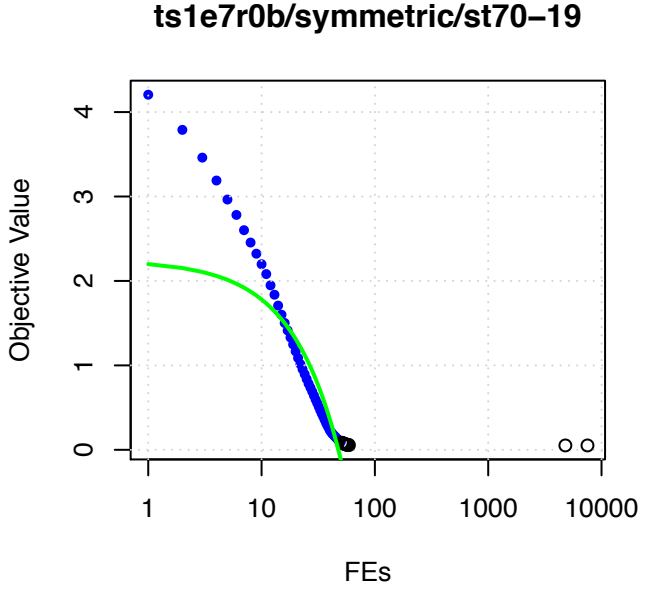
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FEs
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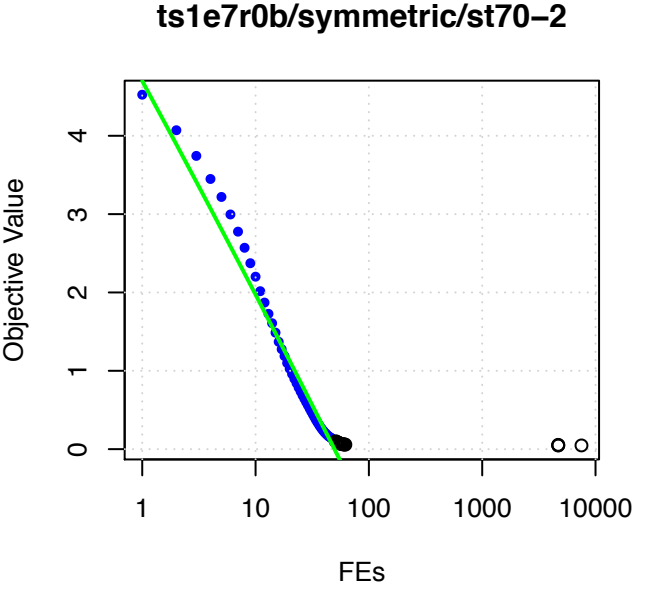
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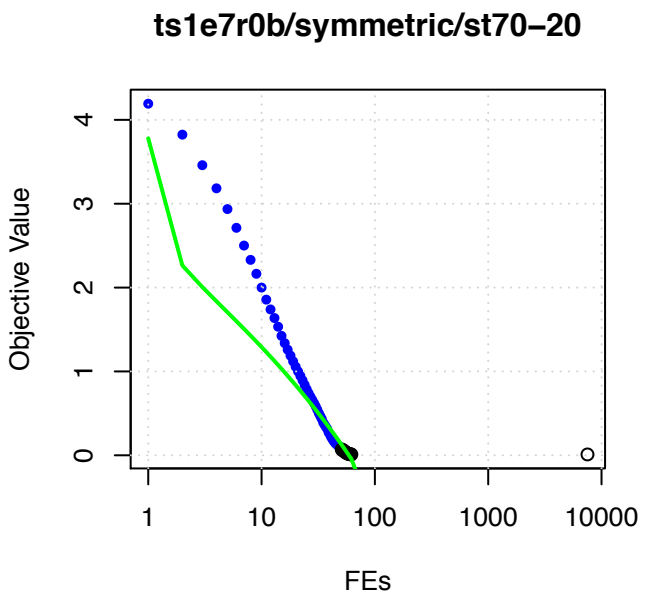
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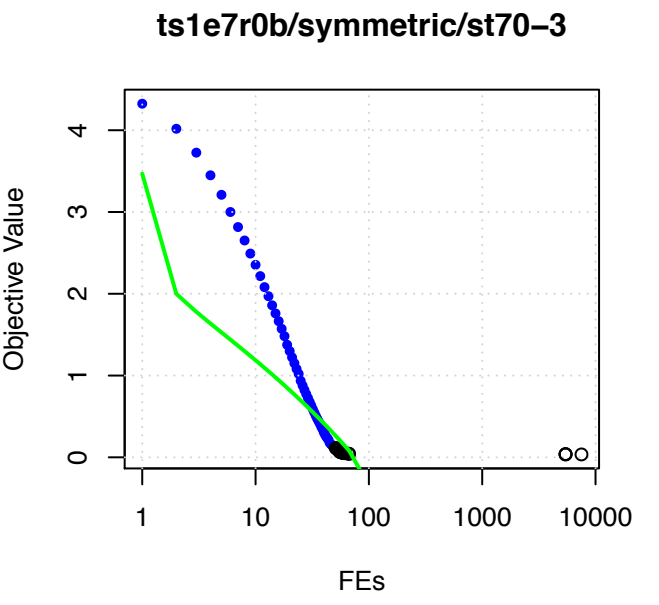
FEs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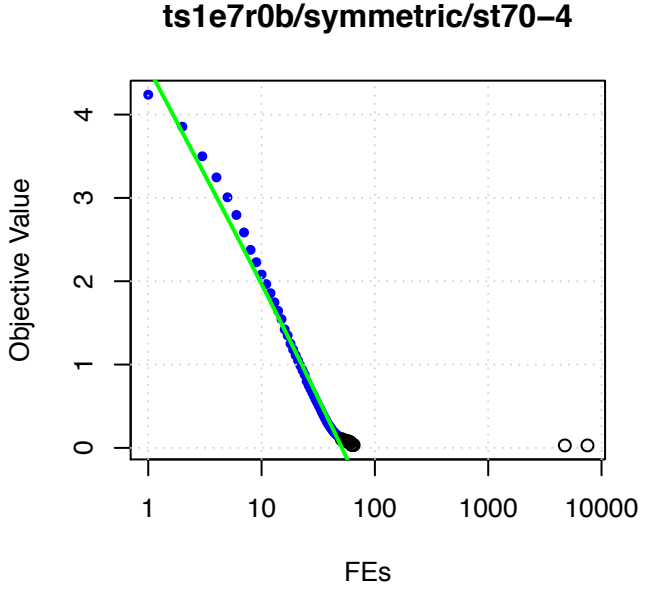
FEs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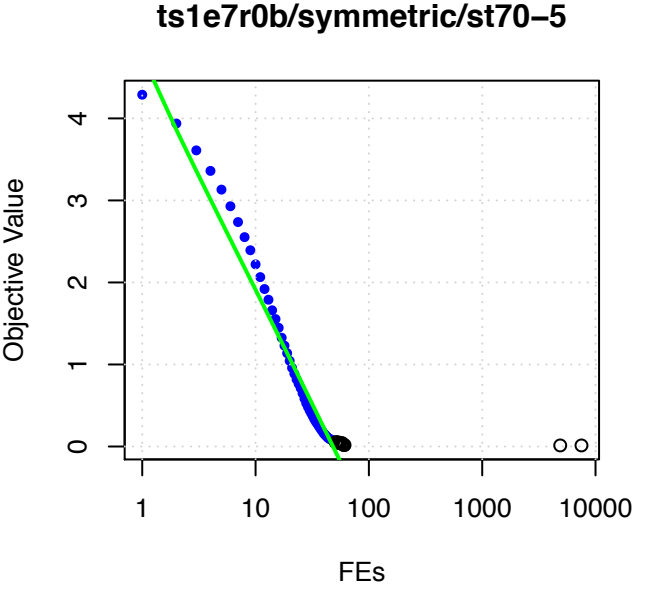
FEs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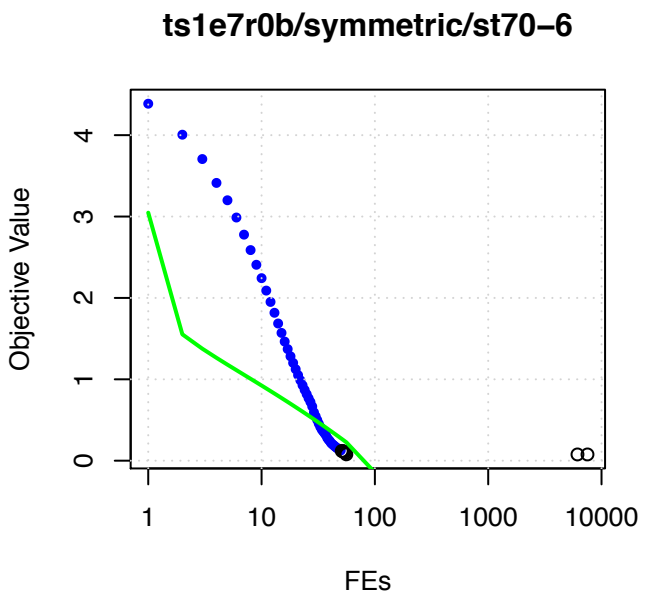
FEs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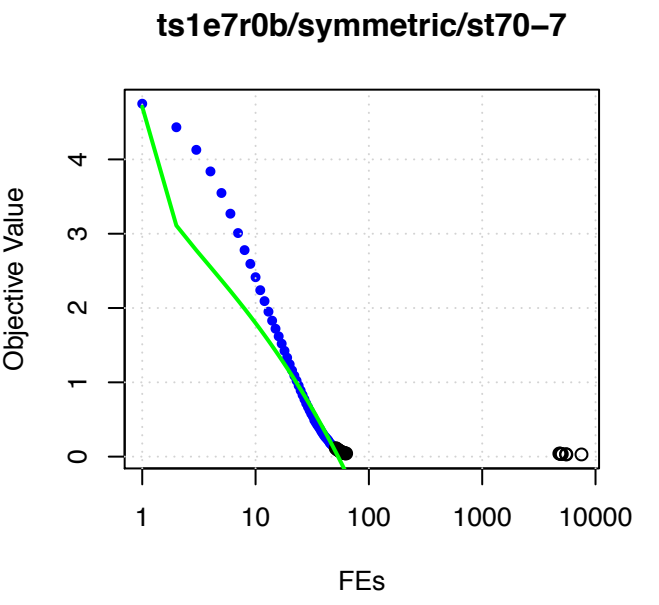
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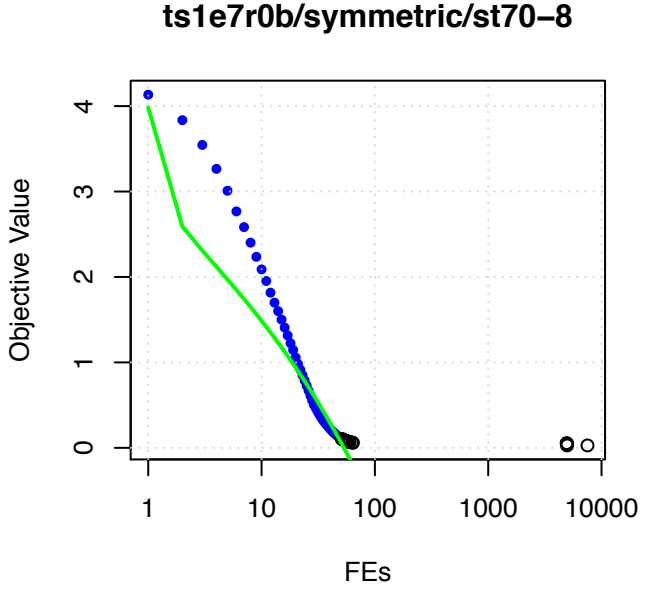
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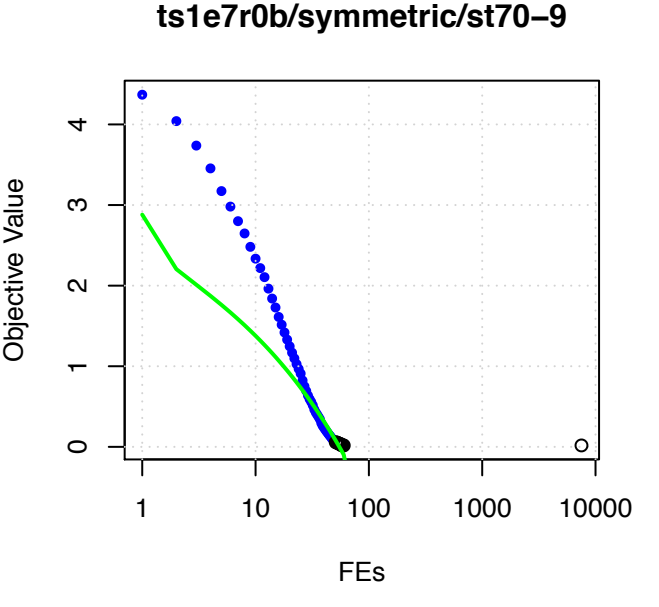
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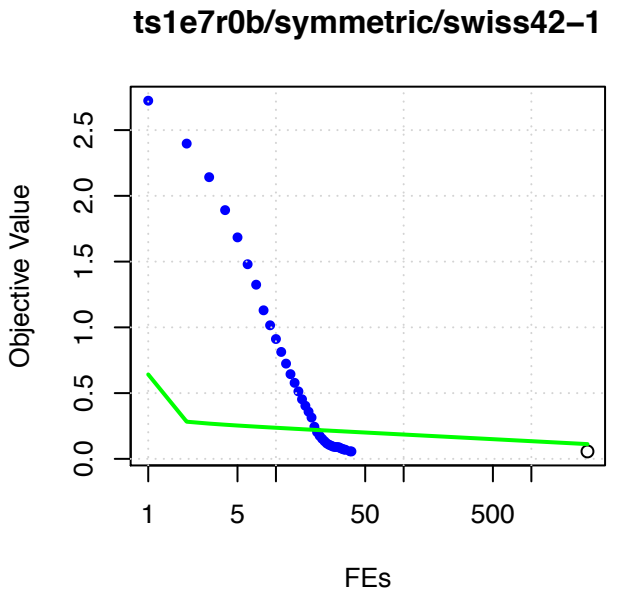
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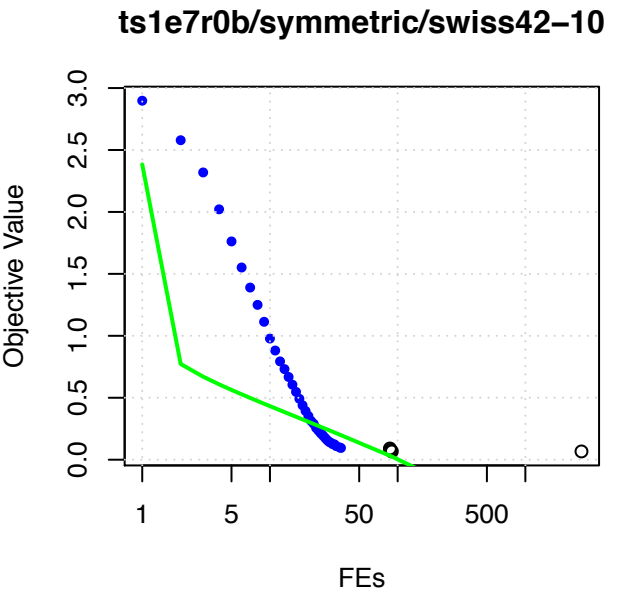
FEs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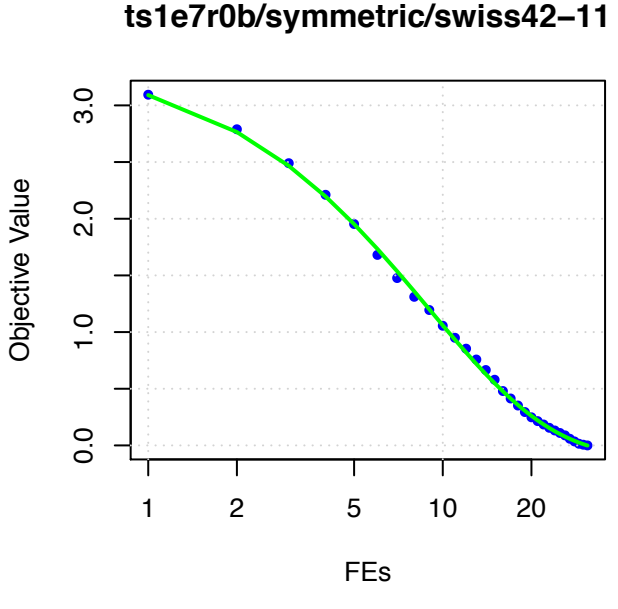
FEs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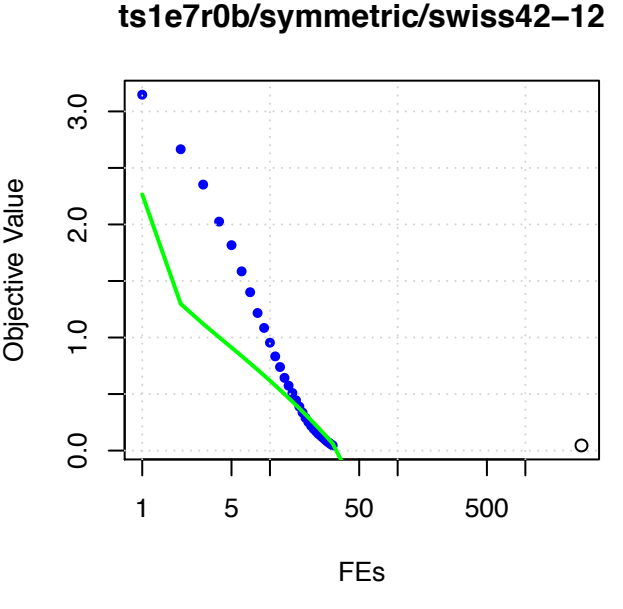
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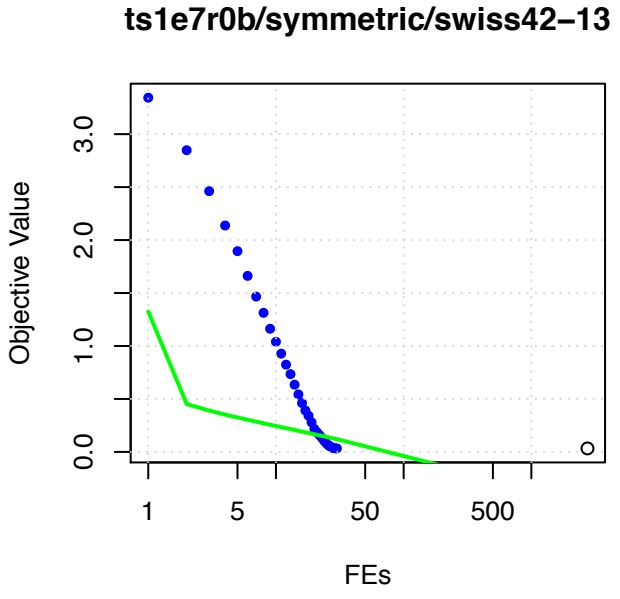
FEs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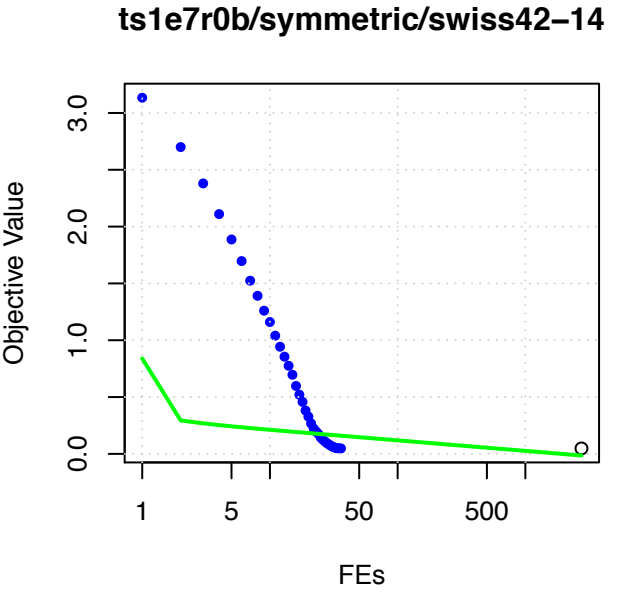
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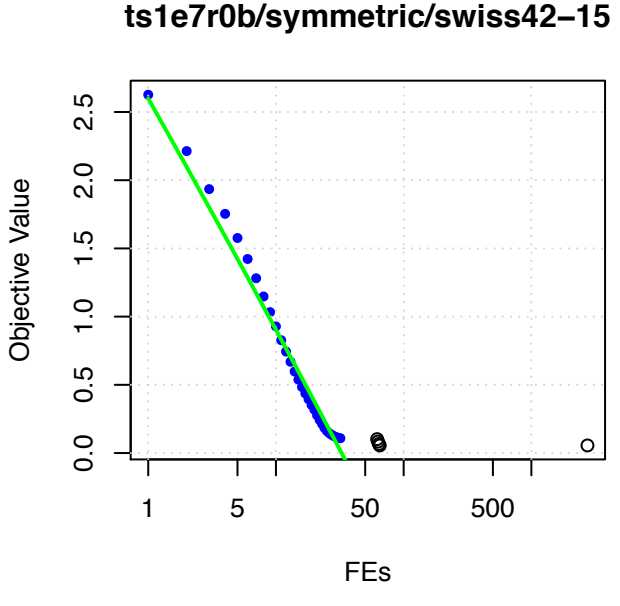
FEs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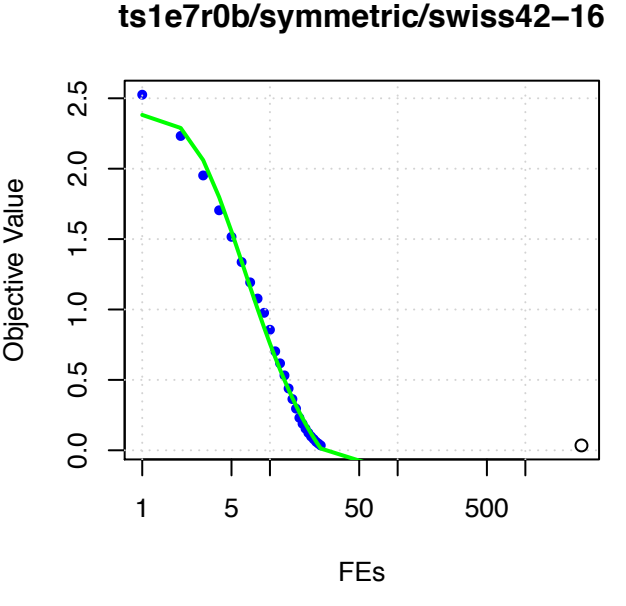
FEs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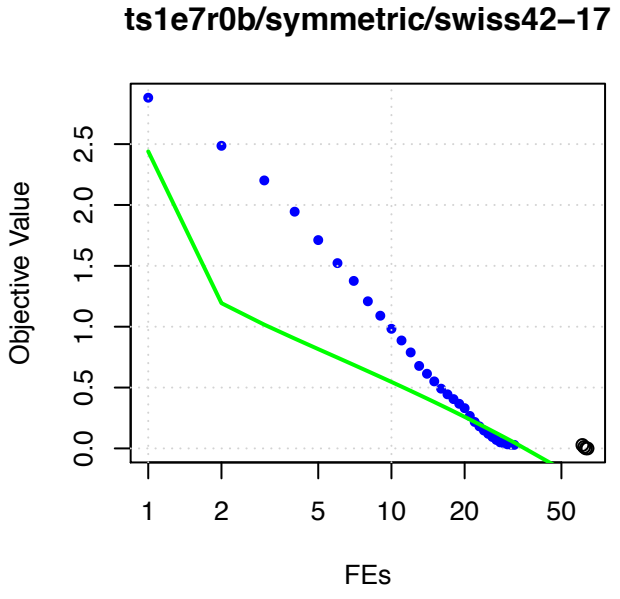
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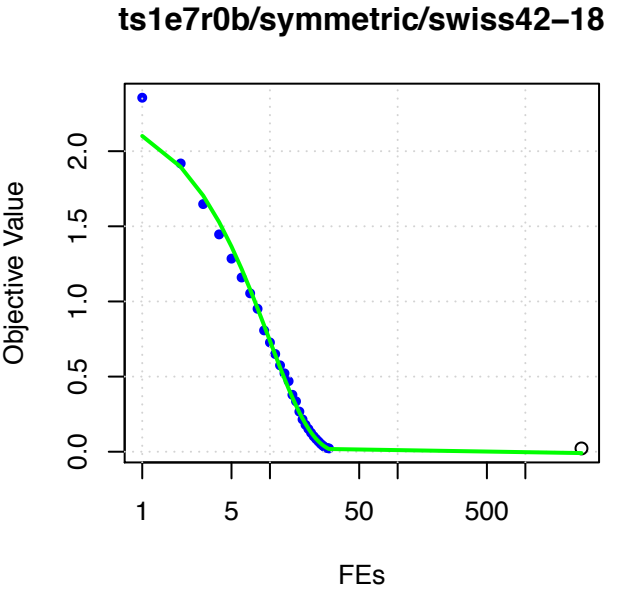
FEs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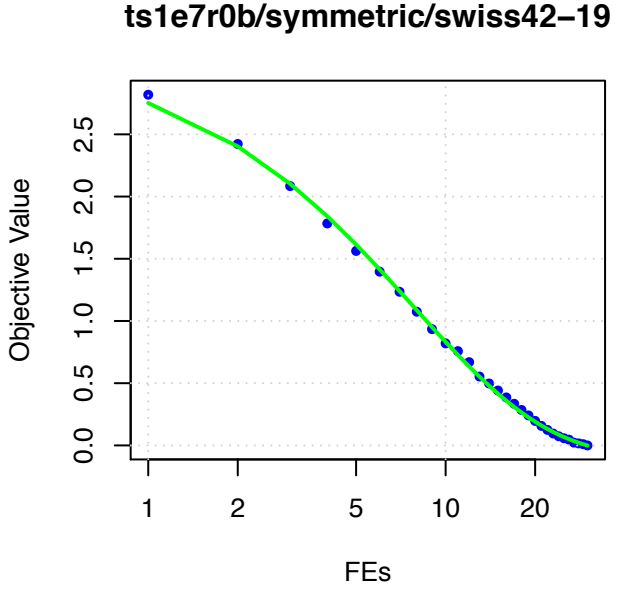
FEs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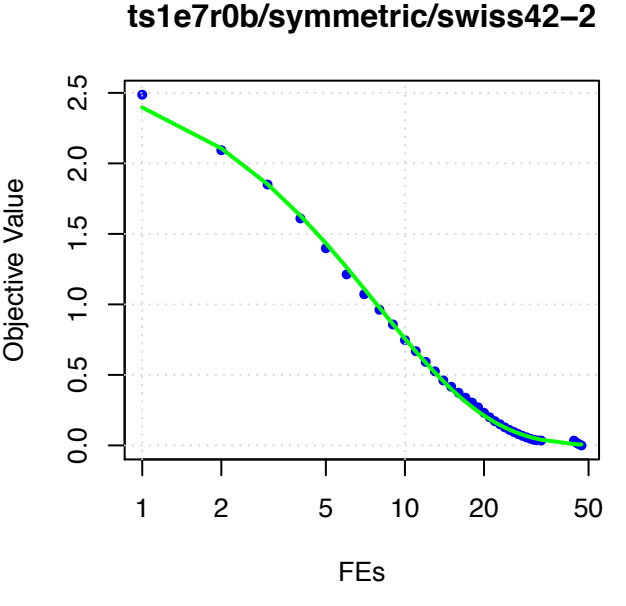
ts1e7r0b/symmetric/swiss42−2
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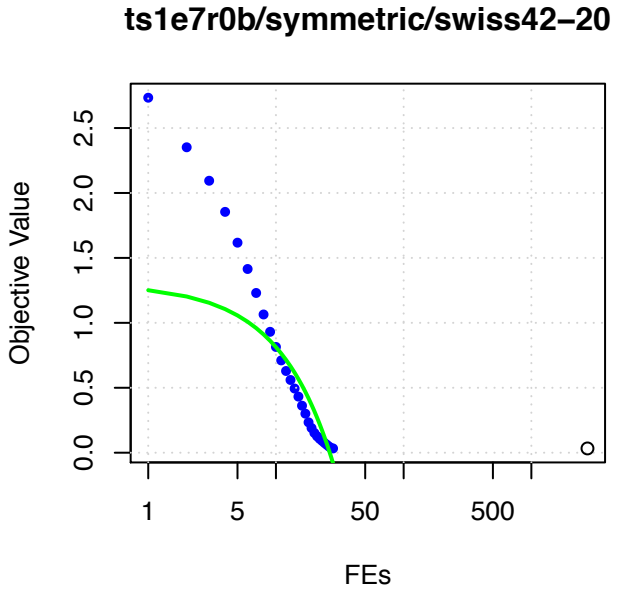
FEs


ts1e7r0b/symmetric/swiss42−20
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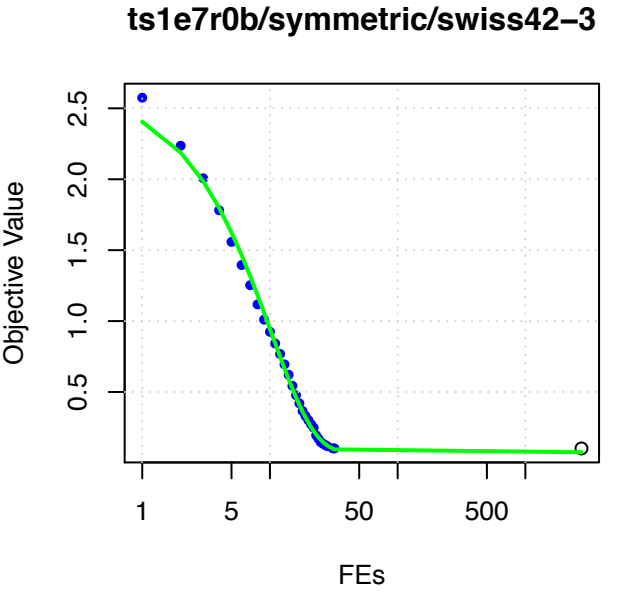
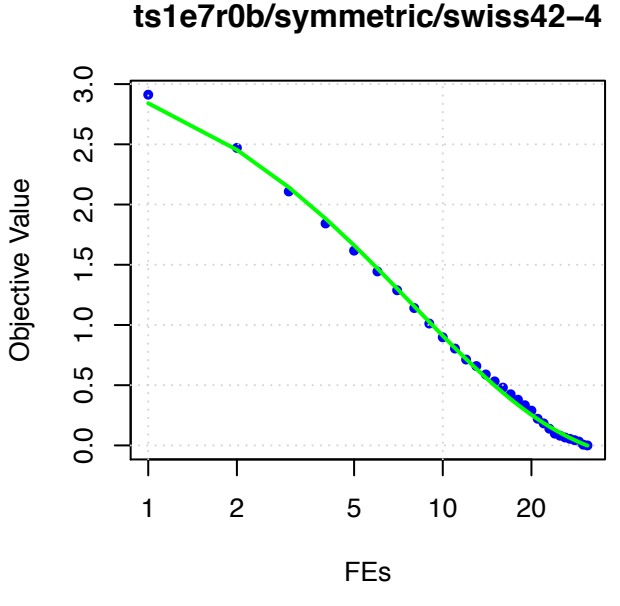
FEs


ts1e7r0b/symmetric/swiss42−3
Objective Value
0.5
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts1e7r0b/symmetric/swiss42−4
Objective Value
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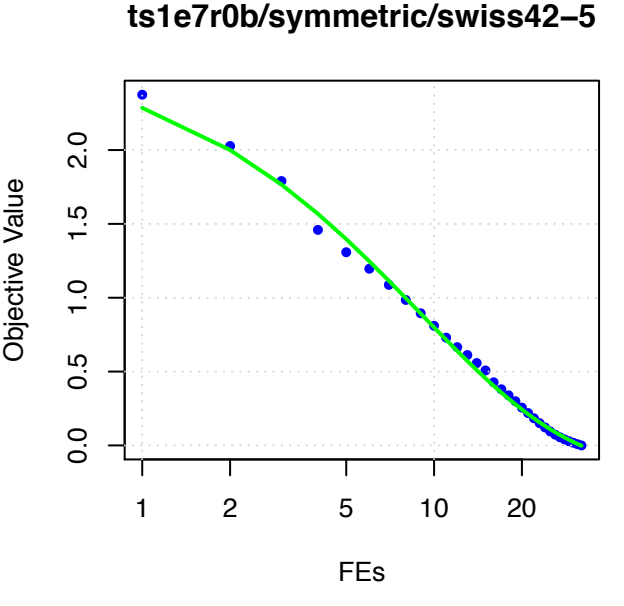
0.5
1.0
1.5
2.0
2.5
3.0
1
2
5
10
20
FEs


ts1e7r0b/symmetric/swiss42−5
Objective Value
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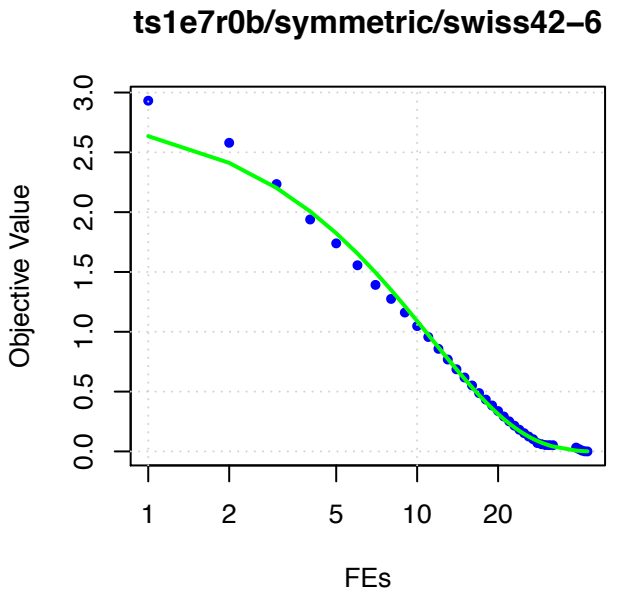
0.5
1.0
1.5
2.0
1
2
5
10
20
FEs


ts1e7r0b/symmetric/swiss42−6
Objective Value
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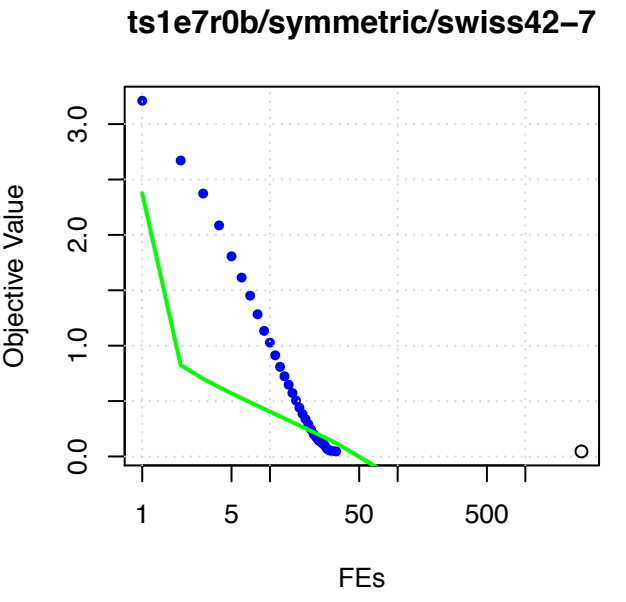
0.5
1.0
1.5
2.0
2.5
3.0
1
2
5
10
20
FEs


ts1e7r0b/symmetric/swiss42−7
Objective Value
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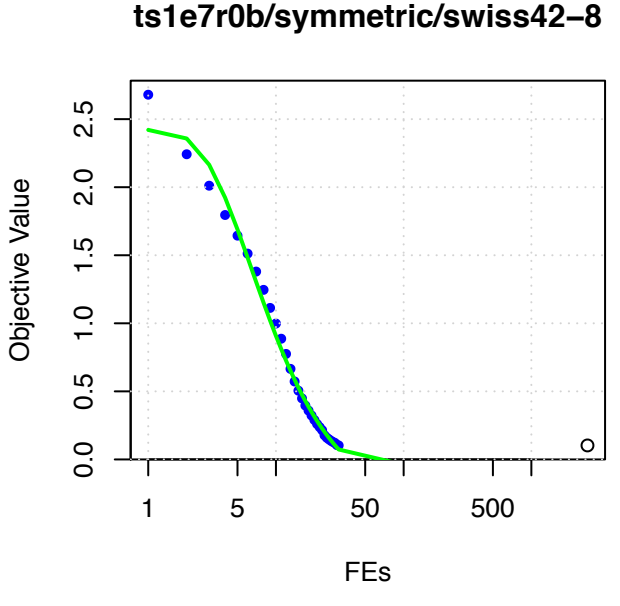
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/swiss42−8
Objective Value
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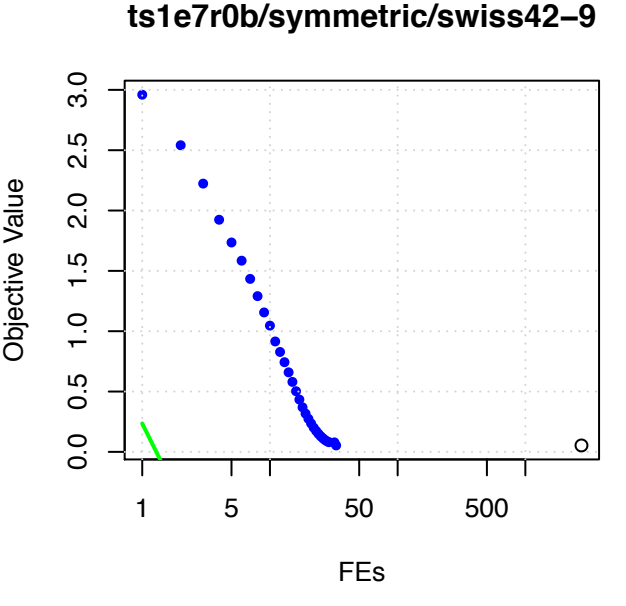
0.5
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts1e7r0b/symmetric/swiss42−9
Objective Value
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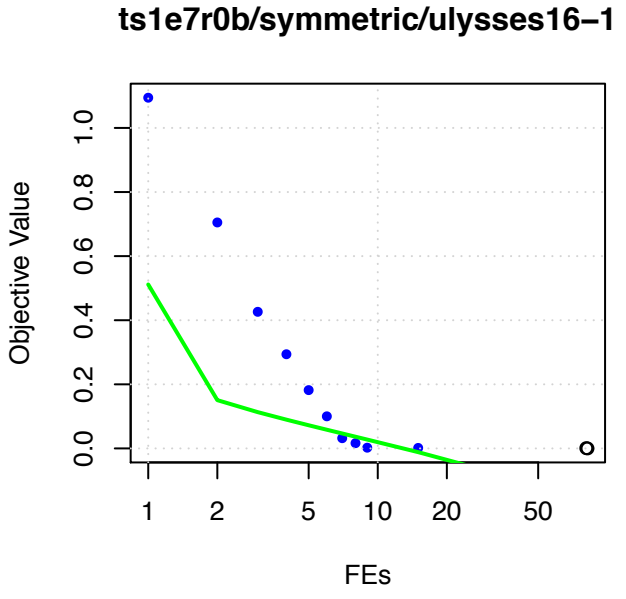
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
500
FEs


ts1e7r0b/symmetric/ulysses16−1
Objective Value
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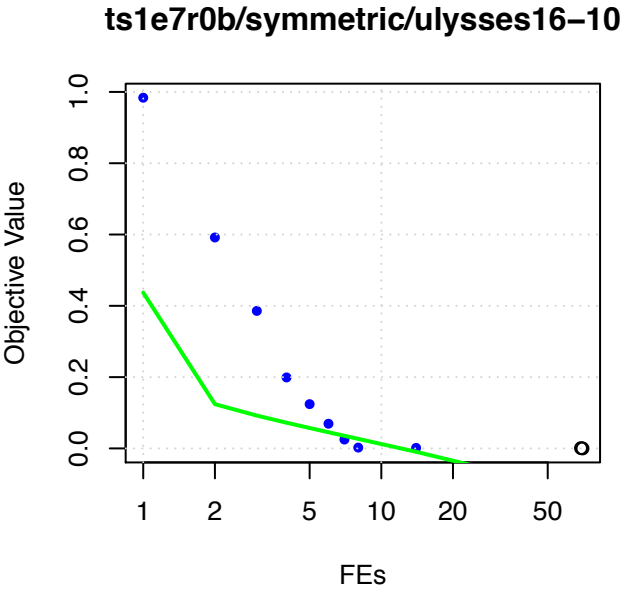
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses16−10
Objective Value
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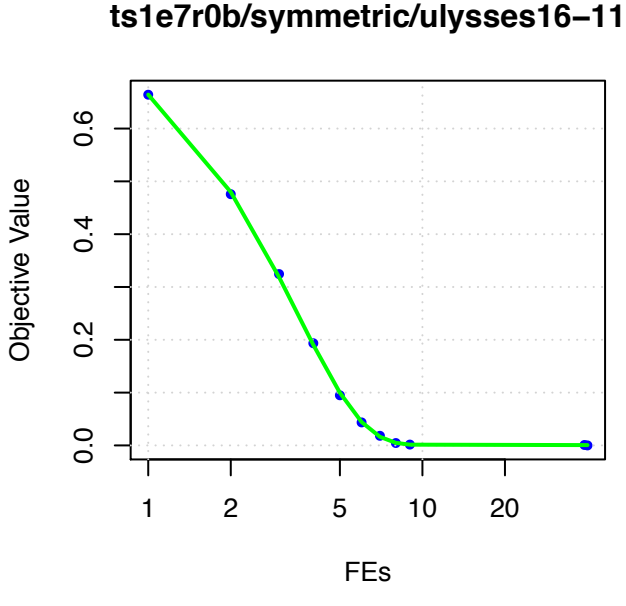
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses16−11
Objective Value
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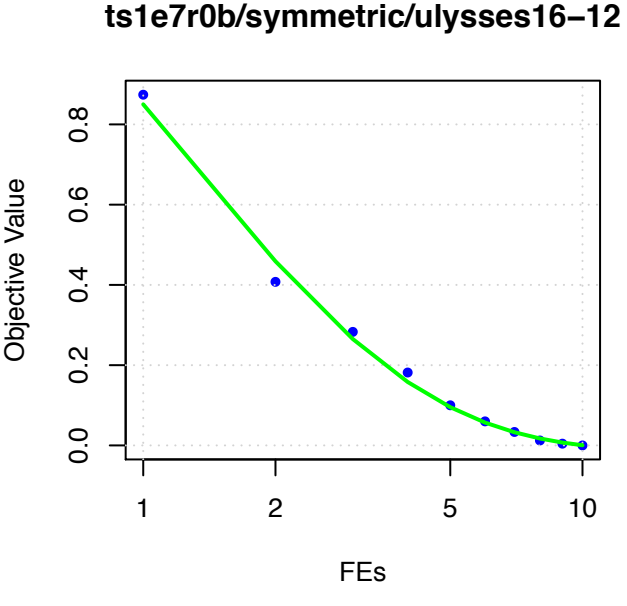
0.2
0.4
0.6
1
2
5
10
20
FEs


ts1e7r0b/symmetric/ulysses16−12
Objective Value
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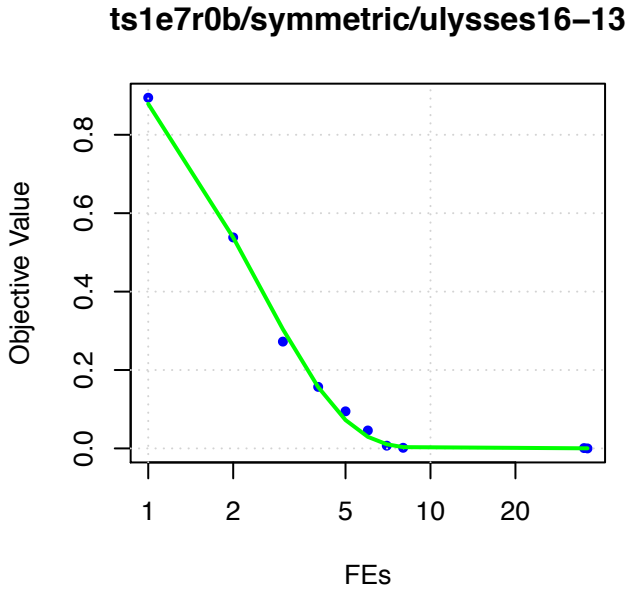
0.2
0.4
0.6
0.8
1
2
5
10
FEs


ts1e7r0b/symmetric/ulysses16−13
Objective Value
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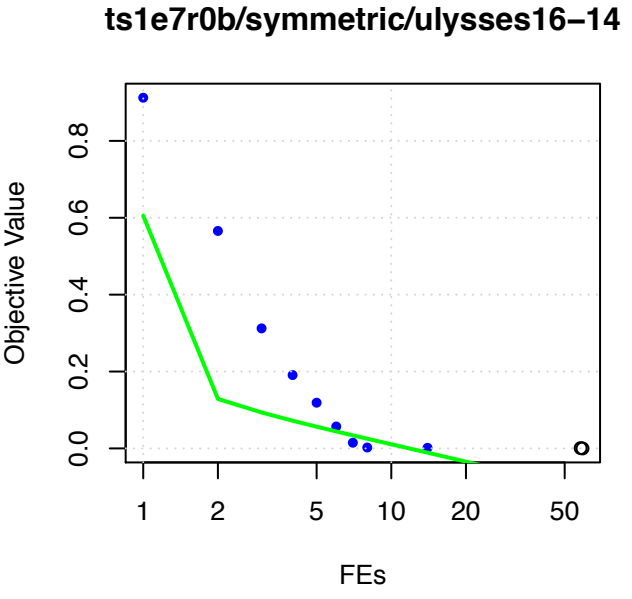
0.2
0.4
0.6
0.8
1
2
5
10
20
FEs


ts1e7r0b/symmetric/ulysses16−14
Objective Value
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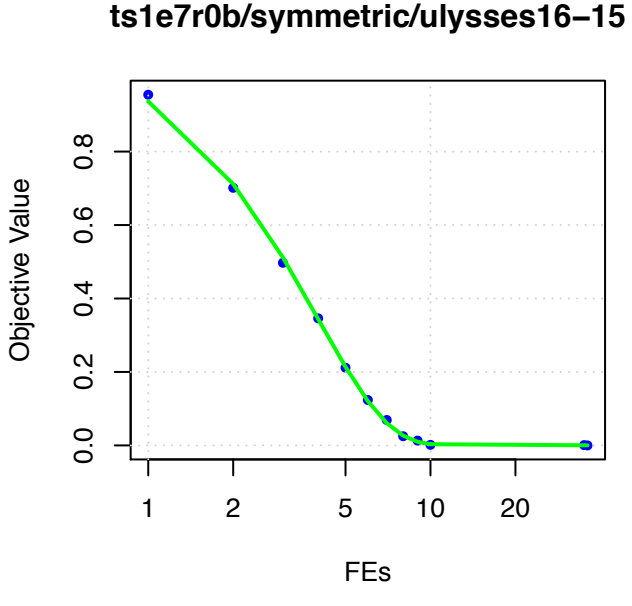
0.4
0.6
0.8
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses16−15
Objective Value
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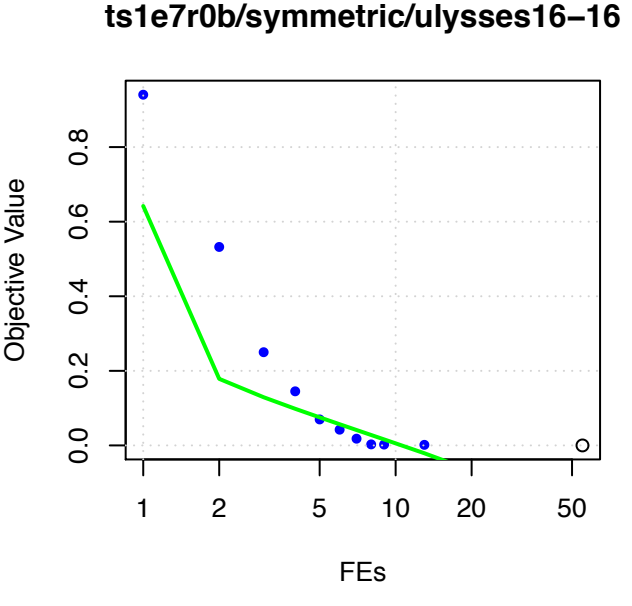
0.2
0.4
0.6
0.8
1
2
5
10
20
FEs


ts1e7r0b/symmetric/ulysses16−16
Objective Value
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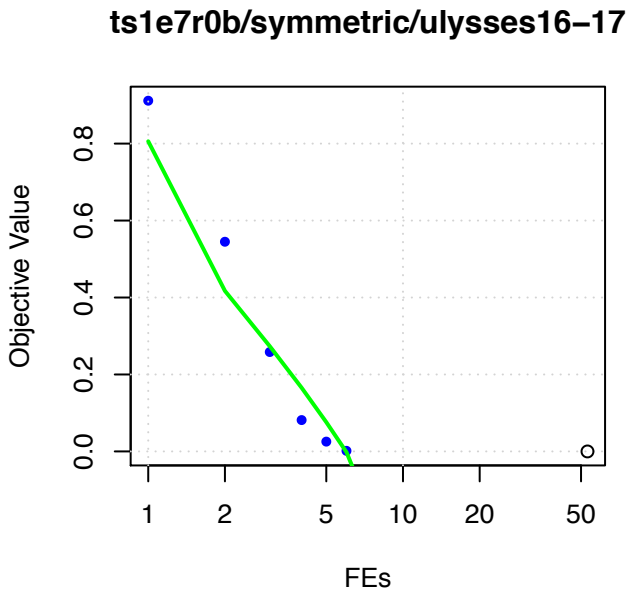
0.2
0.4
0.6
0.8
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses16−17
Objective Value
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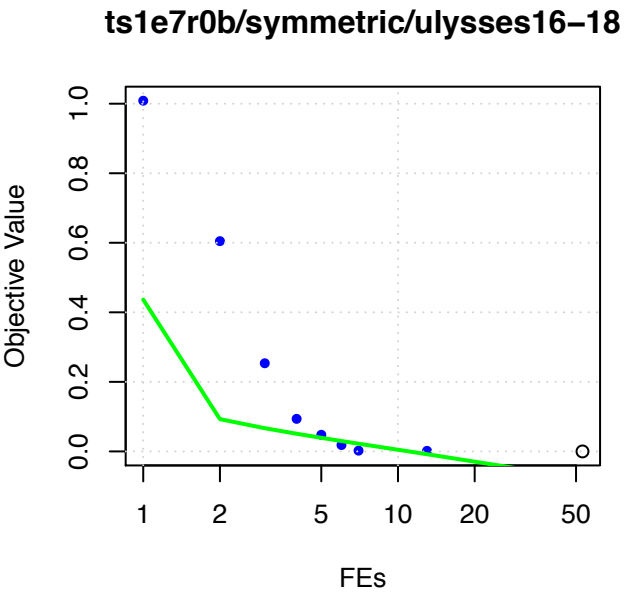
0.2
0.4
0.6
0.8
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses16−18
Objective Value
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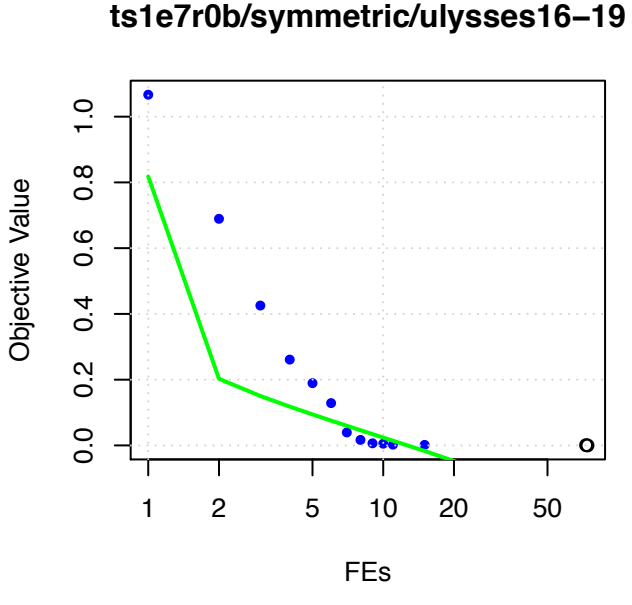
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses16−19
Objective Value
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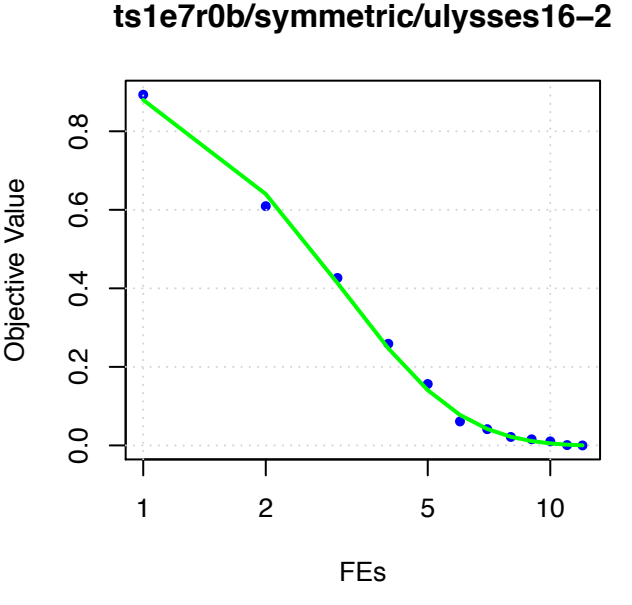
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses16−2
Objective Value
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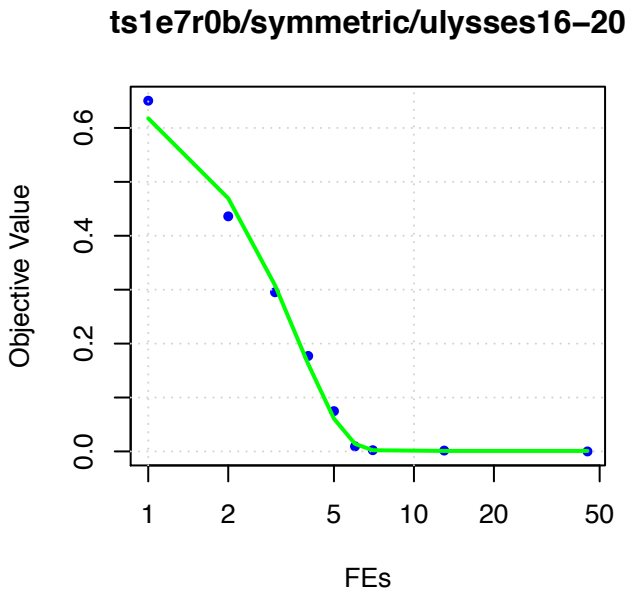
0.2
0.4
0.6
0.8
1
2
5
10
FEs


ts1e7r0b/symmetric/ulysses16−20
Objective Value
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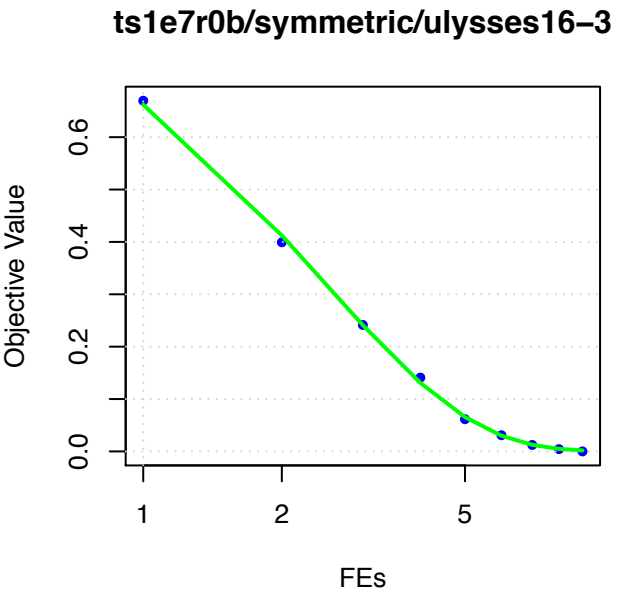
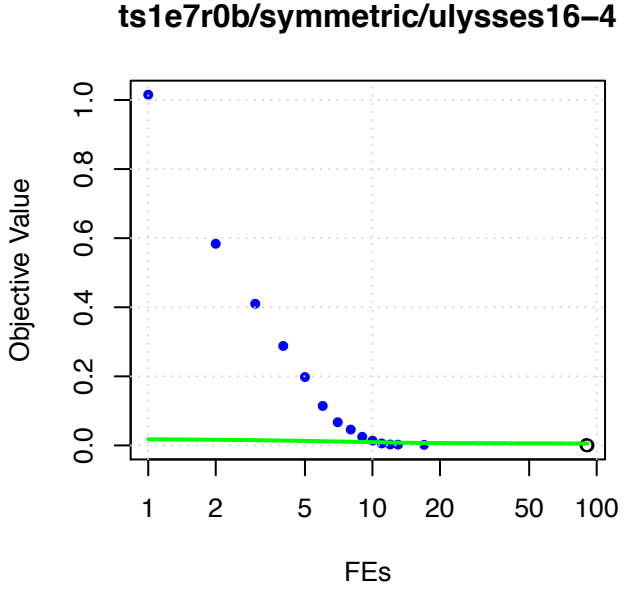
0.2
0.4
0.6
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses16−3
Objective Value
0.0
0.2
0.4
0.6
1
2
5
FEs


ts1e7r0b/symmetric/ulysses16−4
Objective Value
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0.4
0.6
0.8
1.0
1
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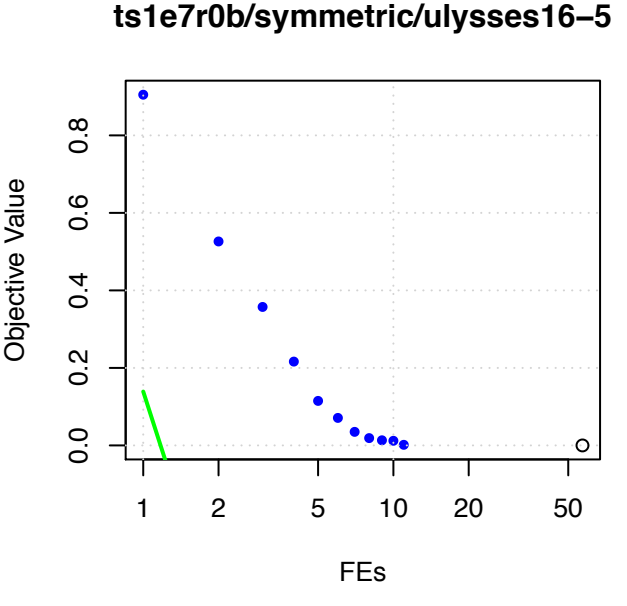
20
50
100
FEs


ts1e7r0b/symmetric/ulysses16−5
Objective Value
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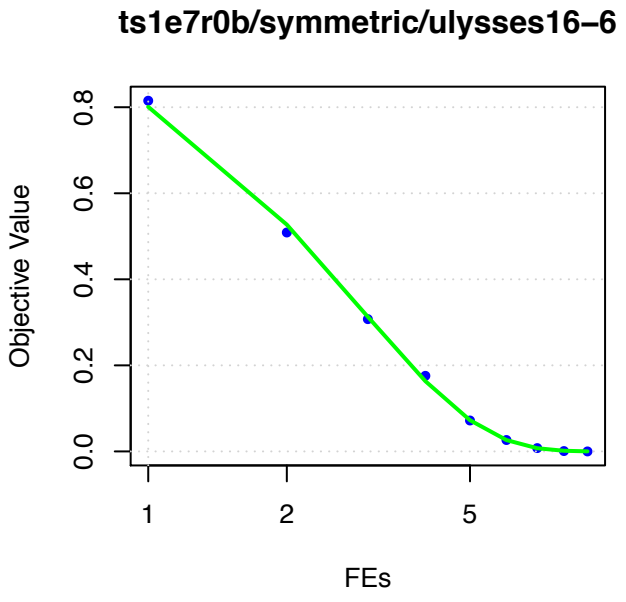
0.4
0.6
0.8
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses16−6
Objective Value
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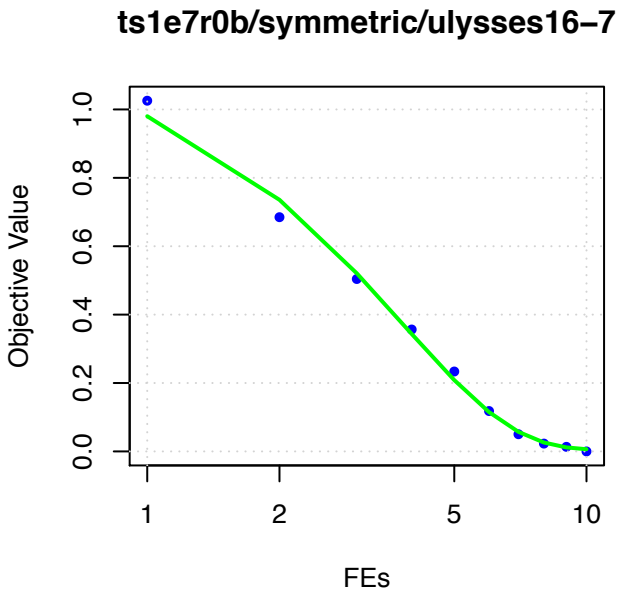
0.4
0.6
0.8
1
2
5
FEs


ts1e7r0b/symmetric/ulysses16−7
Objective Value
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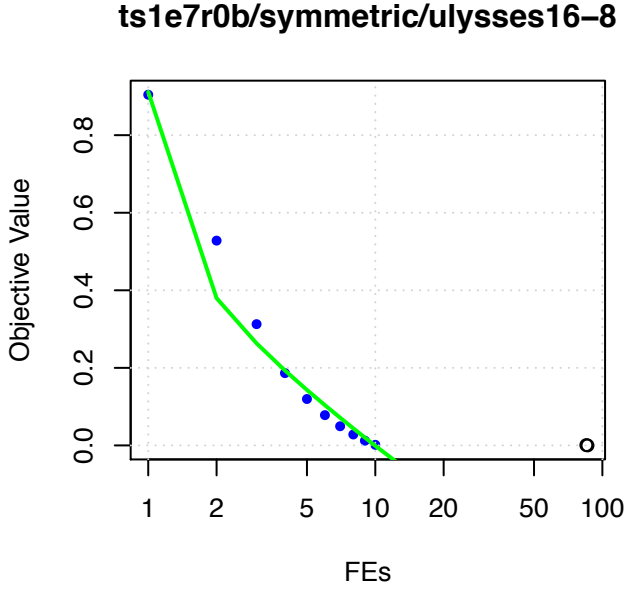
0.4
0.6
0.8
1.0
1
2
5
10
FEs


ts1e7r0b/symmetric/ulysses16−8
Objective Value
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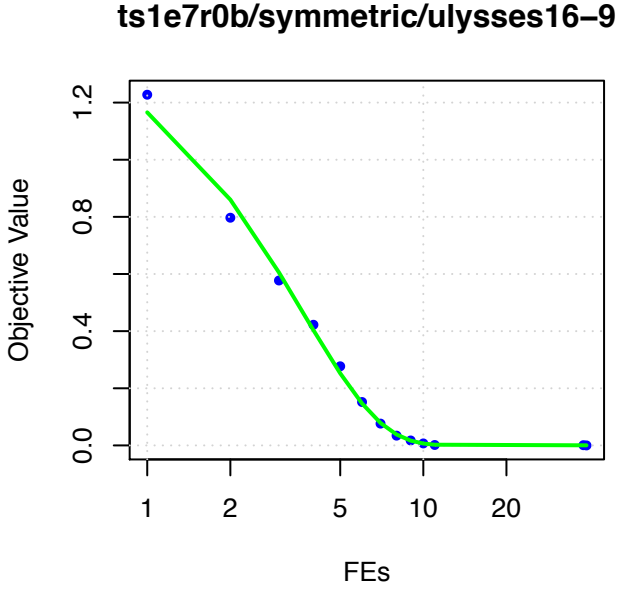
0.4
0.6
0.8
1
2
5
10
20
50
100
FEs


ts1e7r0b/symmetric/ulysses16−9
Objective Value
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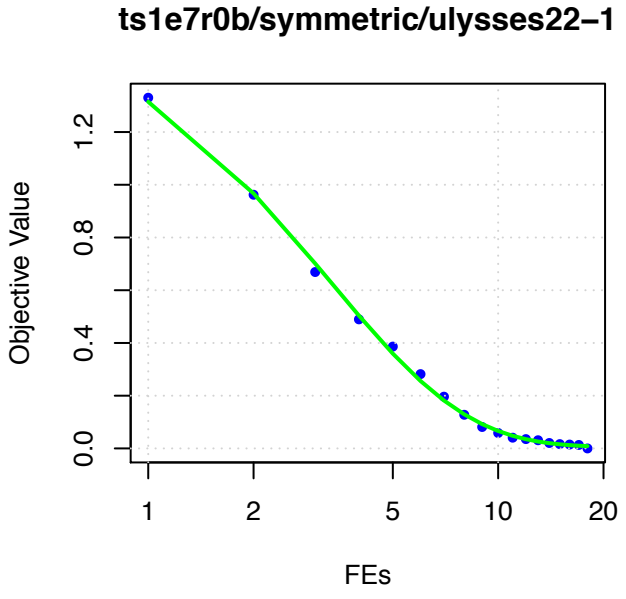
0.8
1.2
1
2
5
10
20
FEs


ts1e7r0b/symmetric/ulysses22−1
Objective Value
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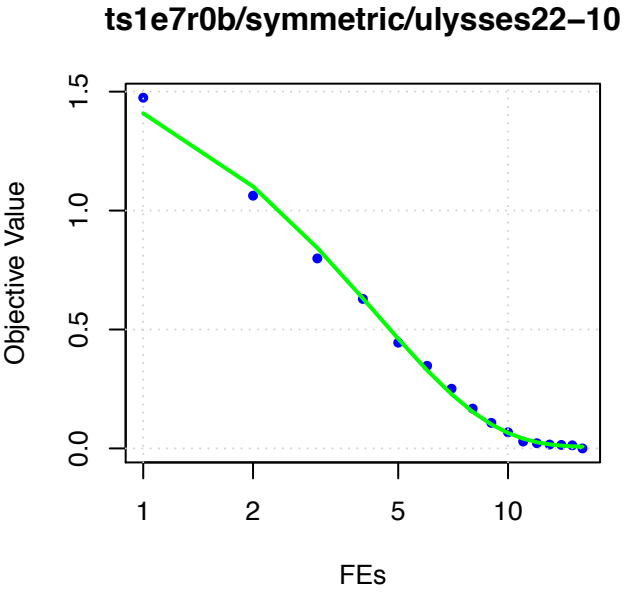
0.4
0.8
1.2
1
2
5
10
20
FEs


ts1e7r0b/symmetric/ulysses22−10
Objective Value
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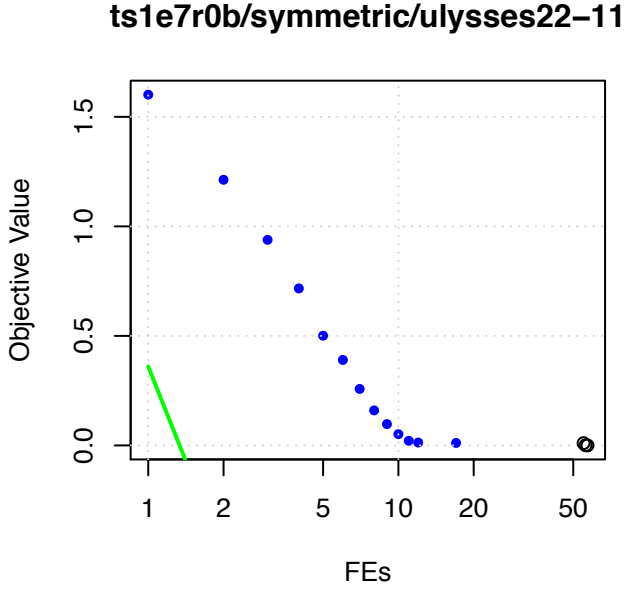
1.0
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/ulysses22−11
Objective Value
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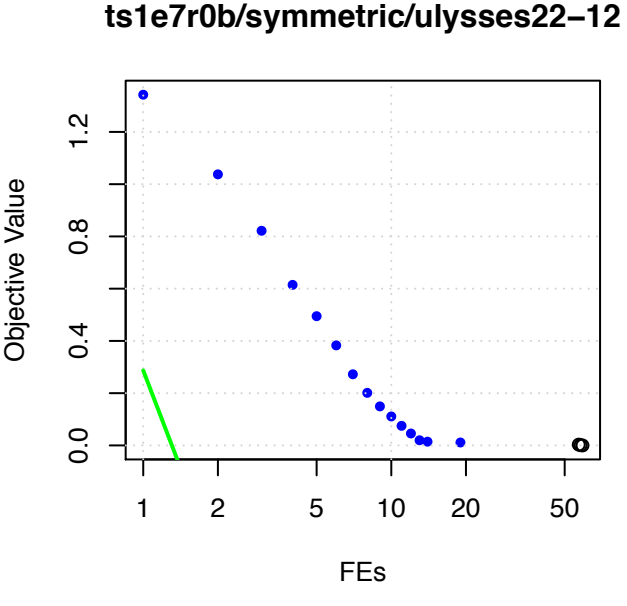
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses22−12
Objective Value
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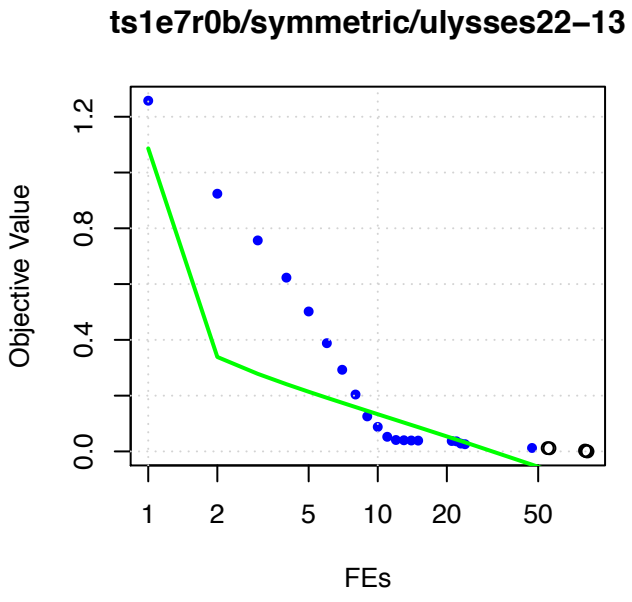
0.8
1.2
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses22−13
Objective Value
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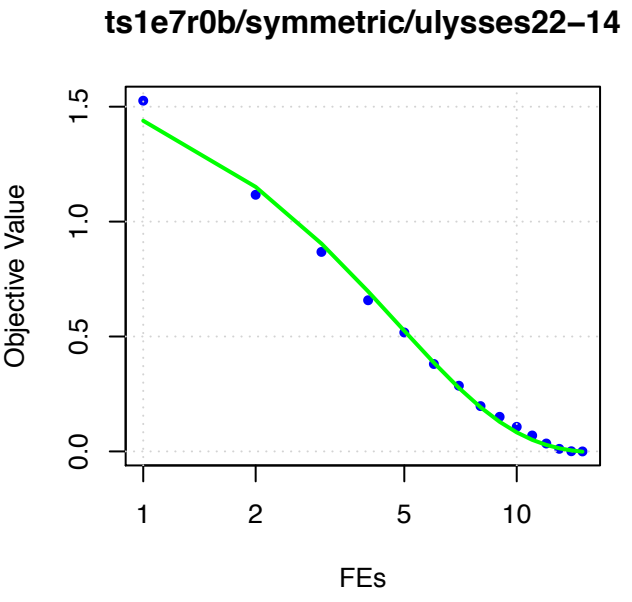
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses22−14
Objective Value
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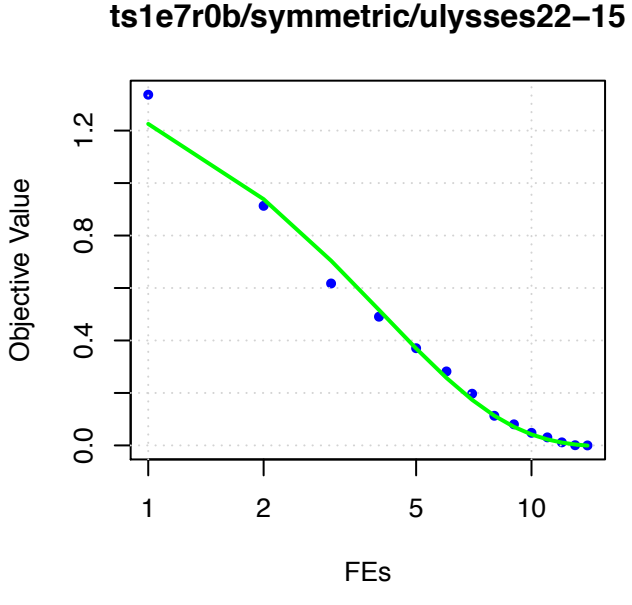
0.5
1.0
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/ulysses22−15
Objective Value
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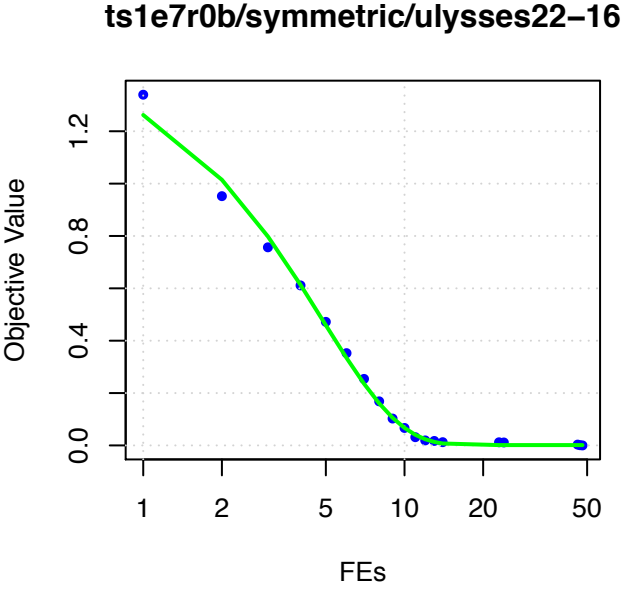
0.4
0.8
1.2
1
2
5
10
FEs


ts1e7r0b/symmetric/ulysses22−16
Objective Value
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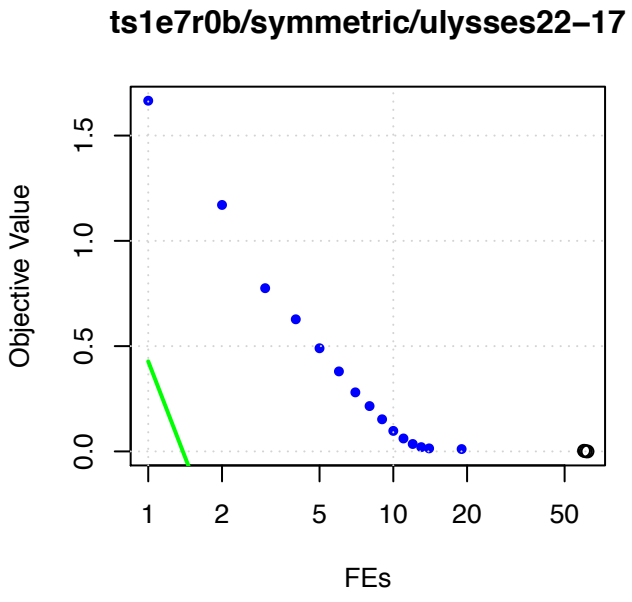
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses22−17
Objective Value
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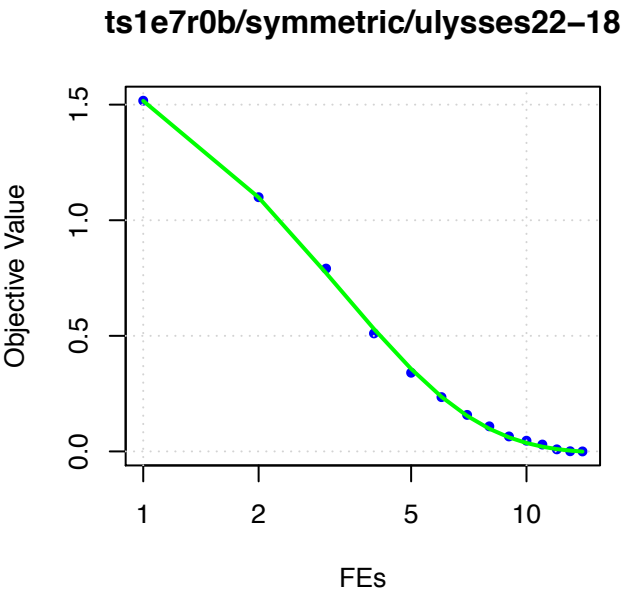
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses22−18
Objective Value
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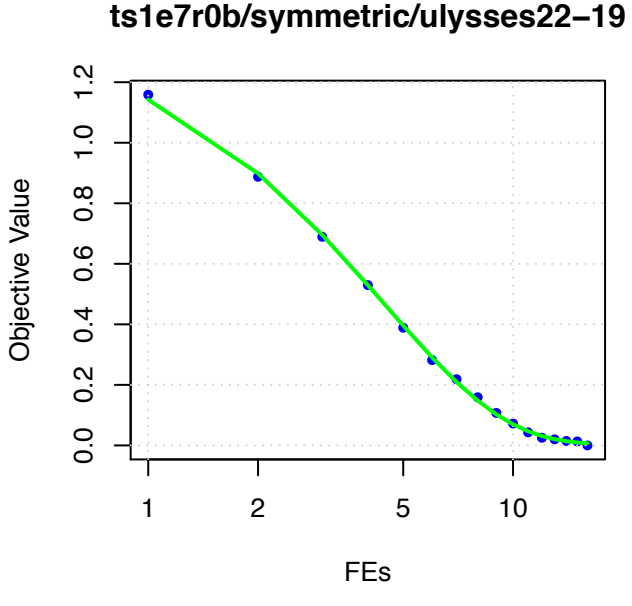
0.5
1.0
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/ulysses22−19
Objective Value
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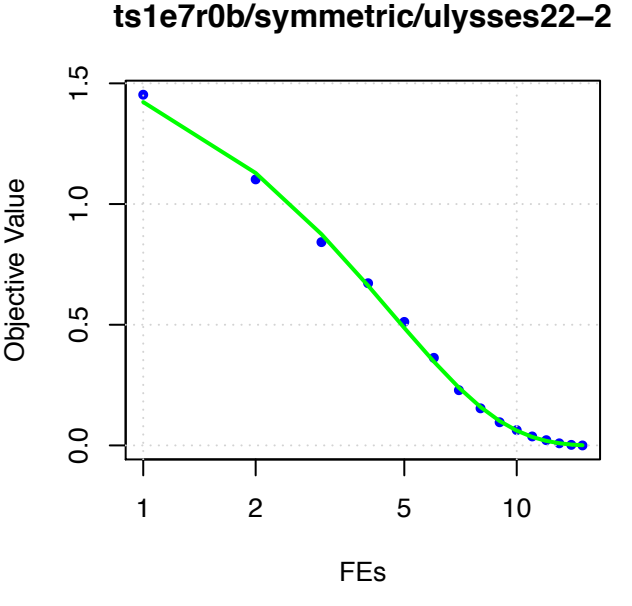
0.2
0.4
0.6
0.8
1.0
1.2
1
2
5
10
FEs


ts1e7r0b/symmetric/ulysses22−2
Objective Value
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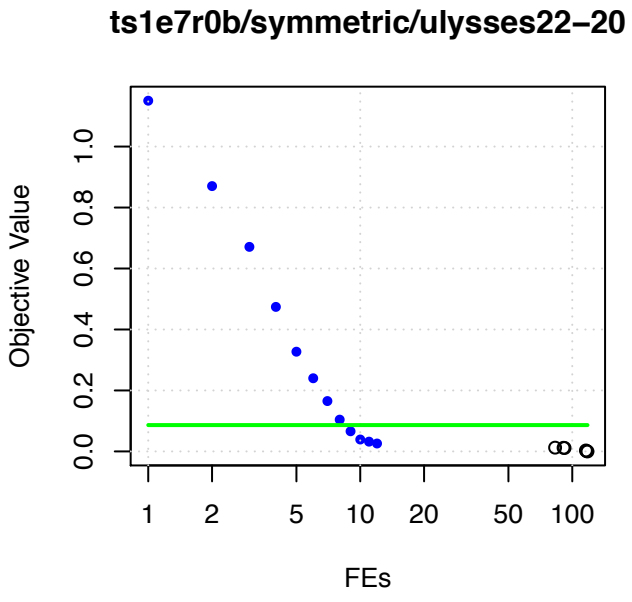
0.5
1.0
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/ulysses22−20
Objective Value
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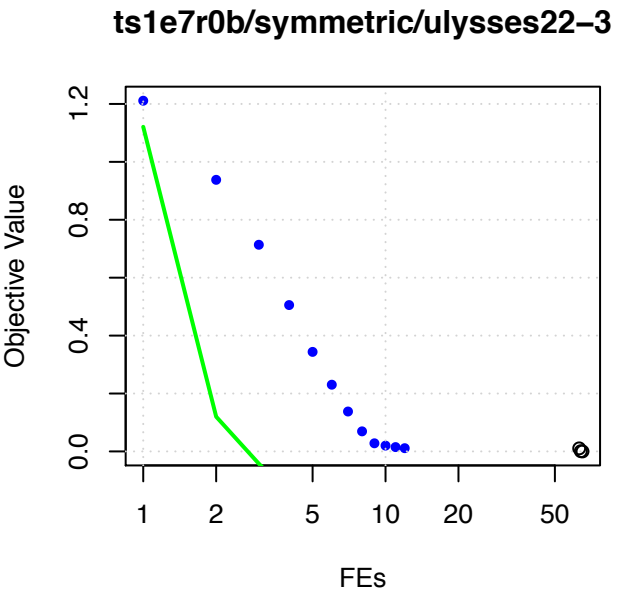
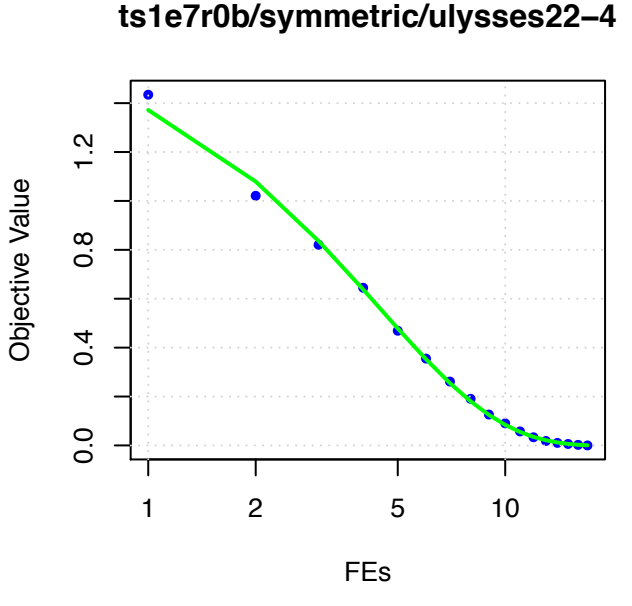
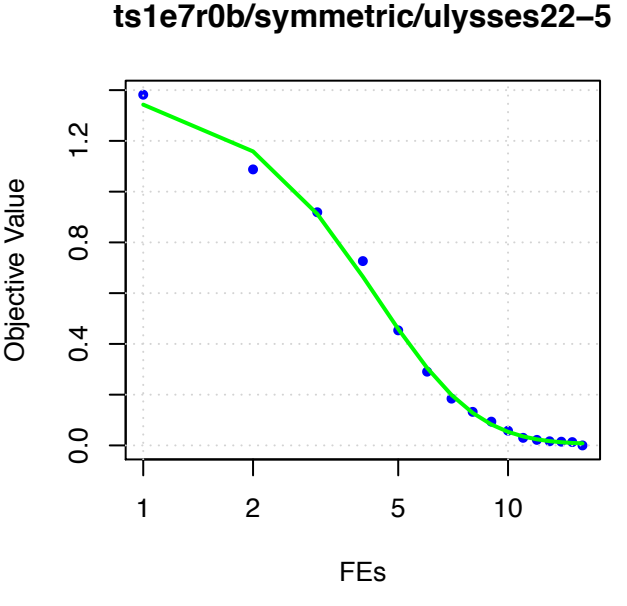
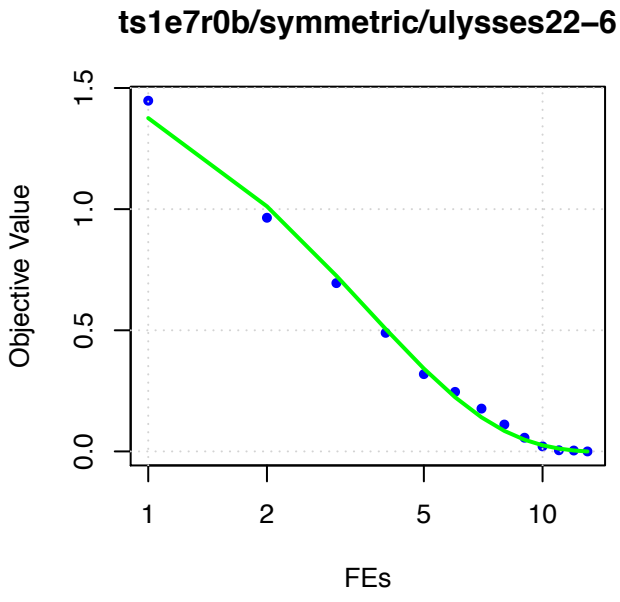
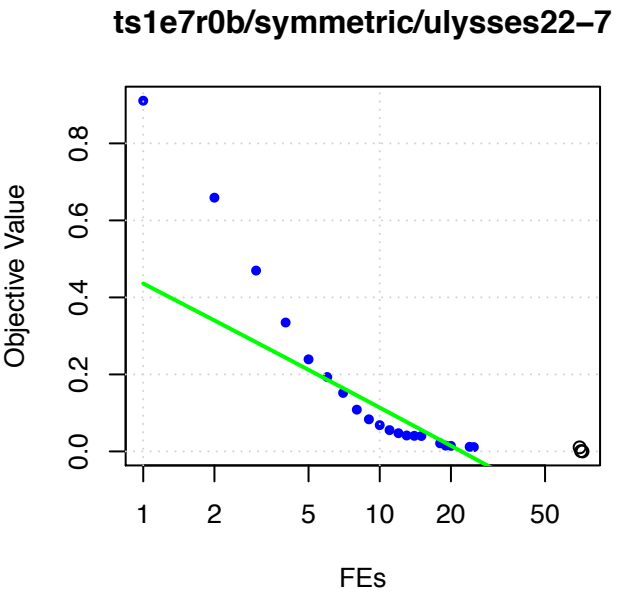
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
50
100
FEs

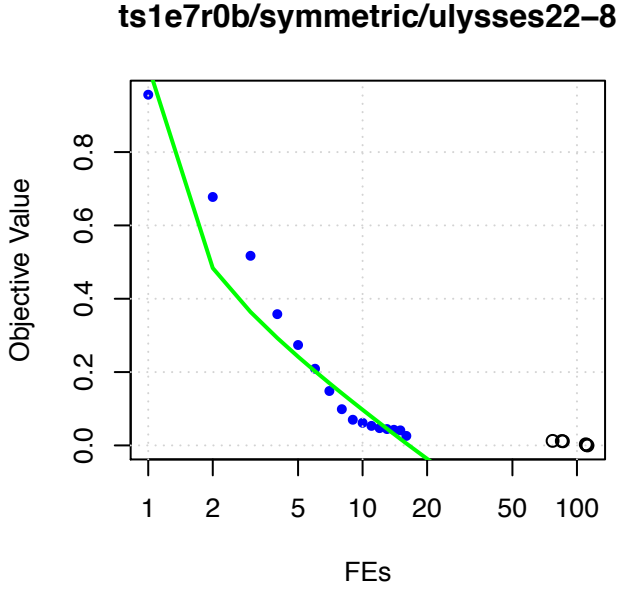

ts1e7r0b/symmetric/ulysses22−3
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses22−4
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
FEs


ts1e7r0b/symmetric/ulysses22−5
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
FEs


ts1e7r0b/symmetric/ulysses22−6
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
FEs


ts1e7r0b/symmetric/ulysses22−7
Objective Value
0.0
0.2
0.4
0.6
0.8
1
2
5
10
20
50
FEs


ts1e7r0b/symmetric/ulysses22−8
Objective Value
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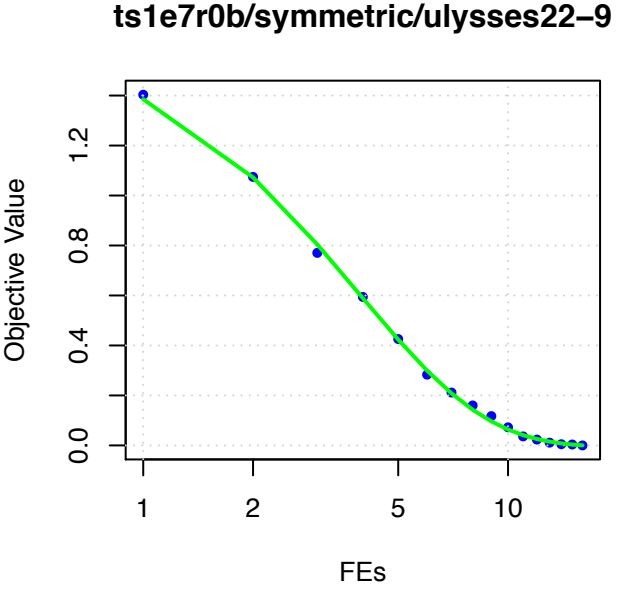
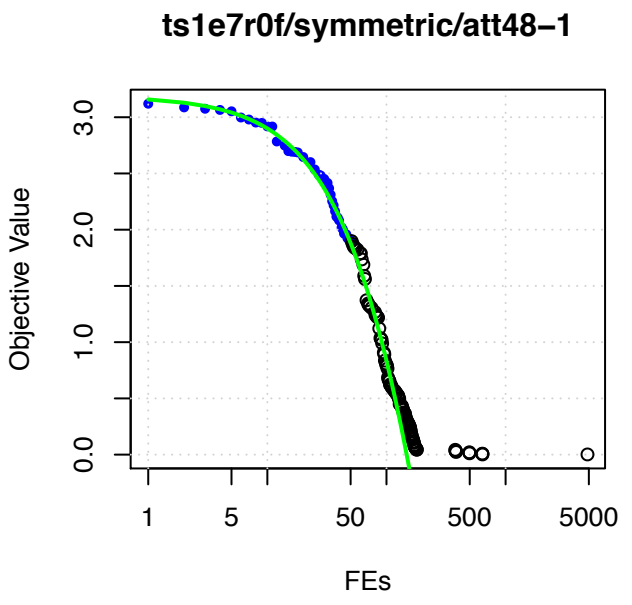
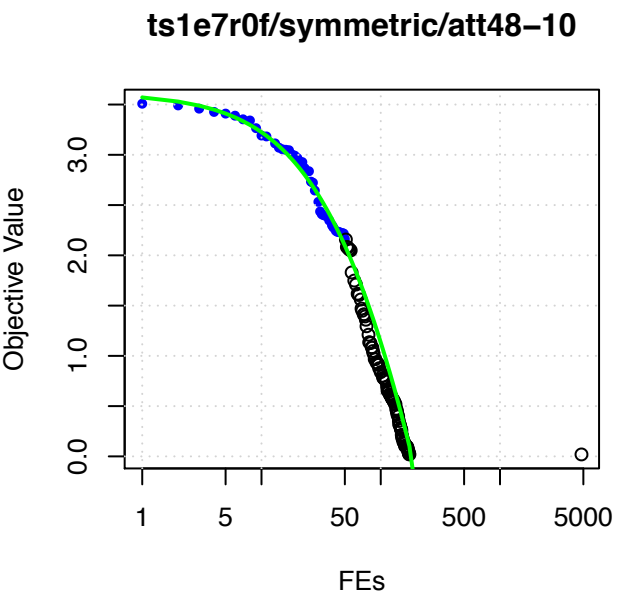
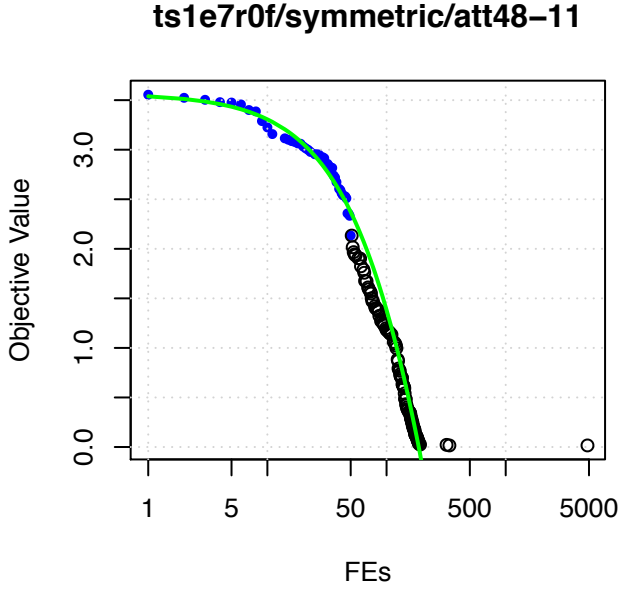
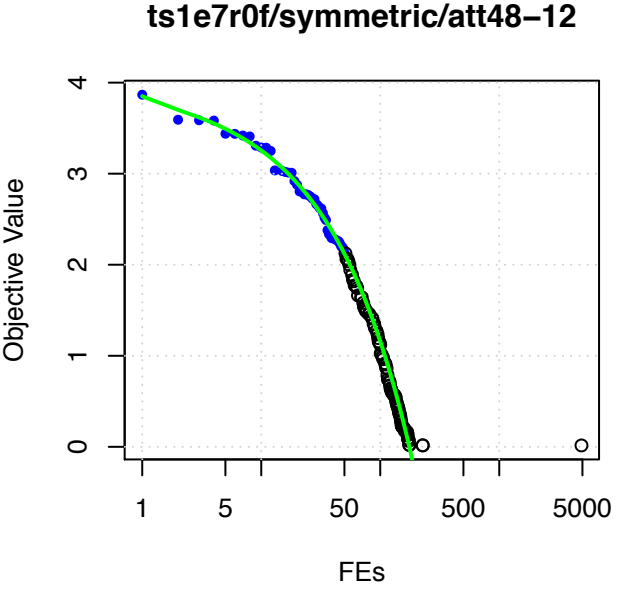
0.2
0.4
0.6
0.8
1
2
5
10
20
50
100
FEs


ts1e7r0b/symmetric/ulysses22−9
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
FEs


ts1e7r0f/symmetric/att48−1
Objective Value
0.0
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/att48−10
Objective Value
0.0
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/att48−11
Objective Value
0.0
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/att48−12
Objective Value
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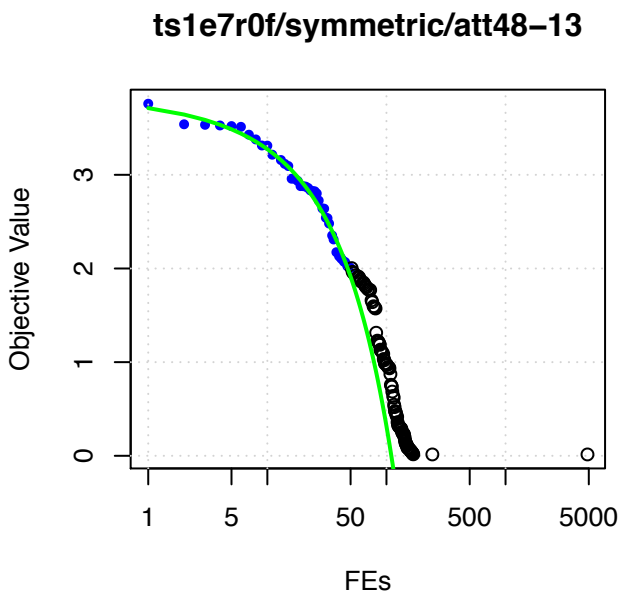
1
2
3
4
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/att48−13
Objective Value
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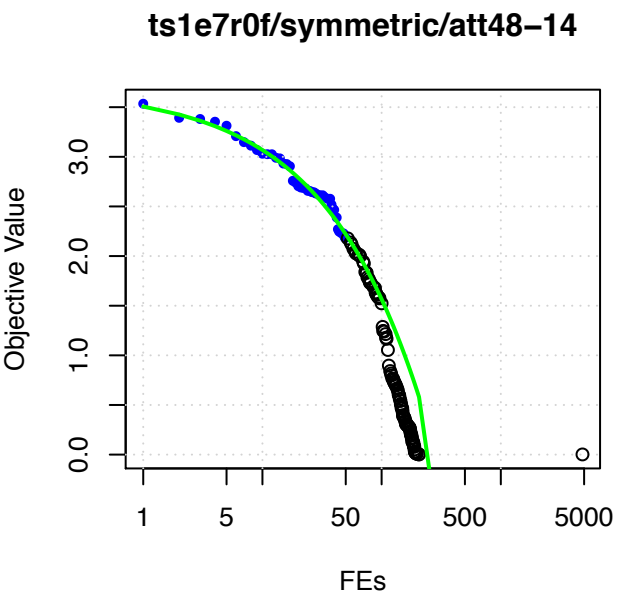
1
2
3
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/att48−14
Objective Value
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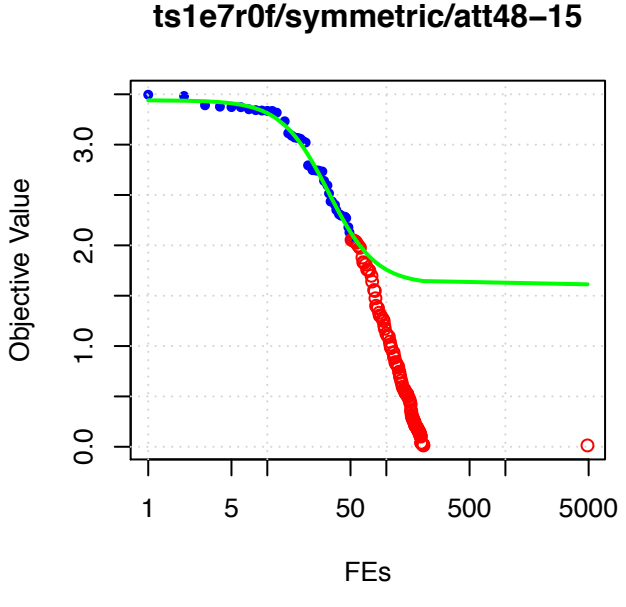
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/att48−15
Objective Value
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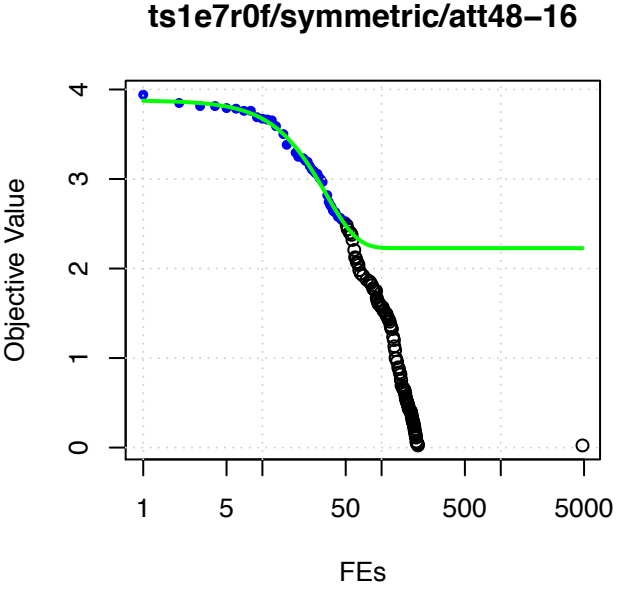
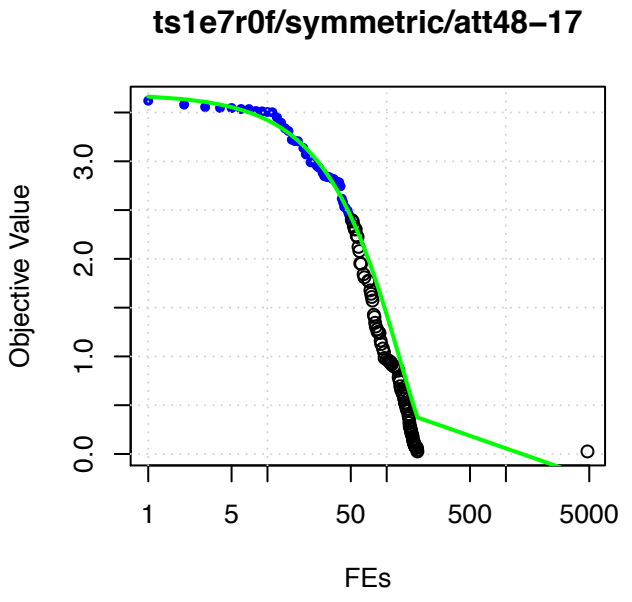
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/att48−16
Objective Value
0
1
2
3
4
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/att48−17
Objective Value
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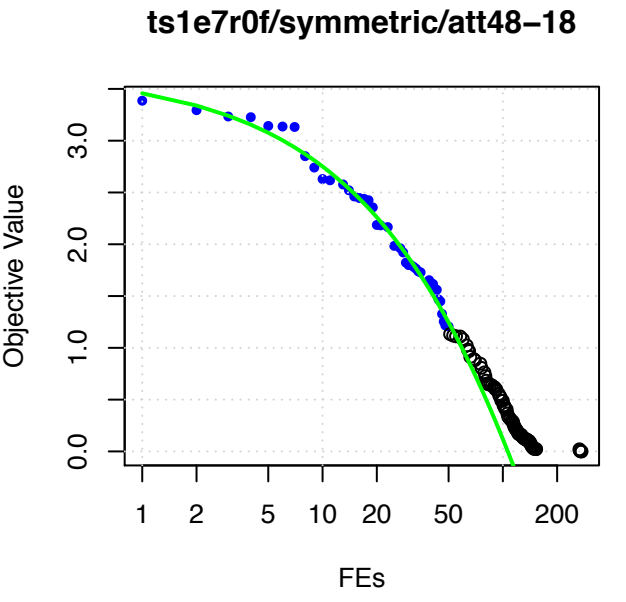
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/att48−18
Objective Value
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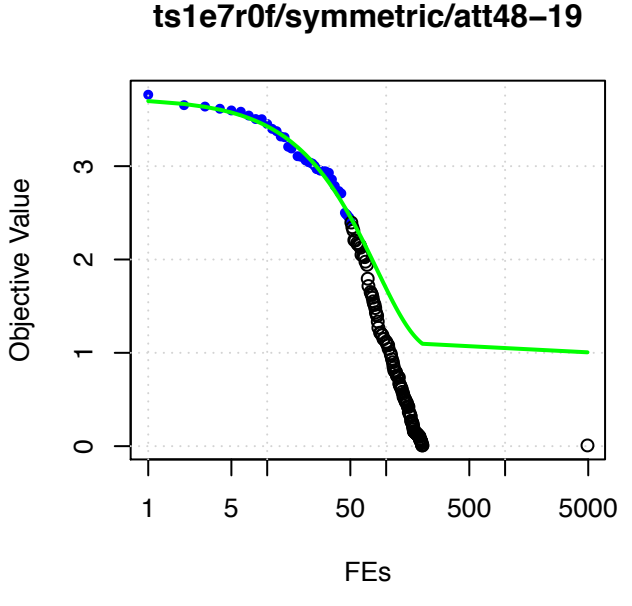
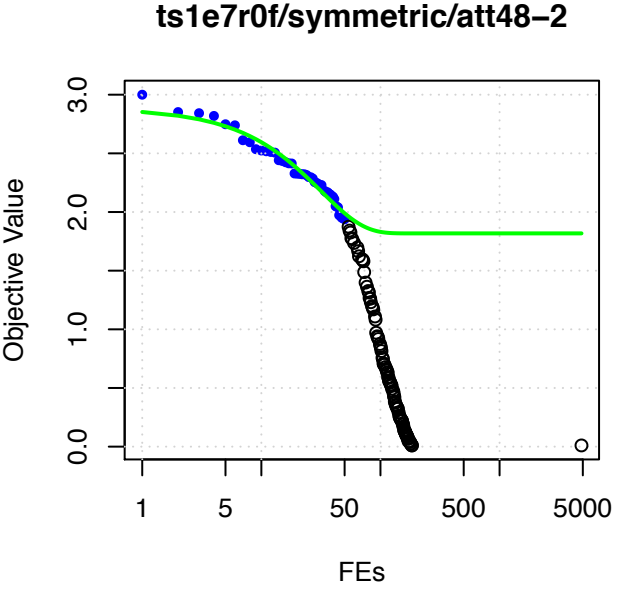
1.0
2.0
3.0
1
2
5
10
20
50
200
FEs


ts1e7r0f/symmetric/att48−19
Objective Value
0
1
2
3
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/att48−2
Objective Value
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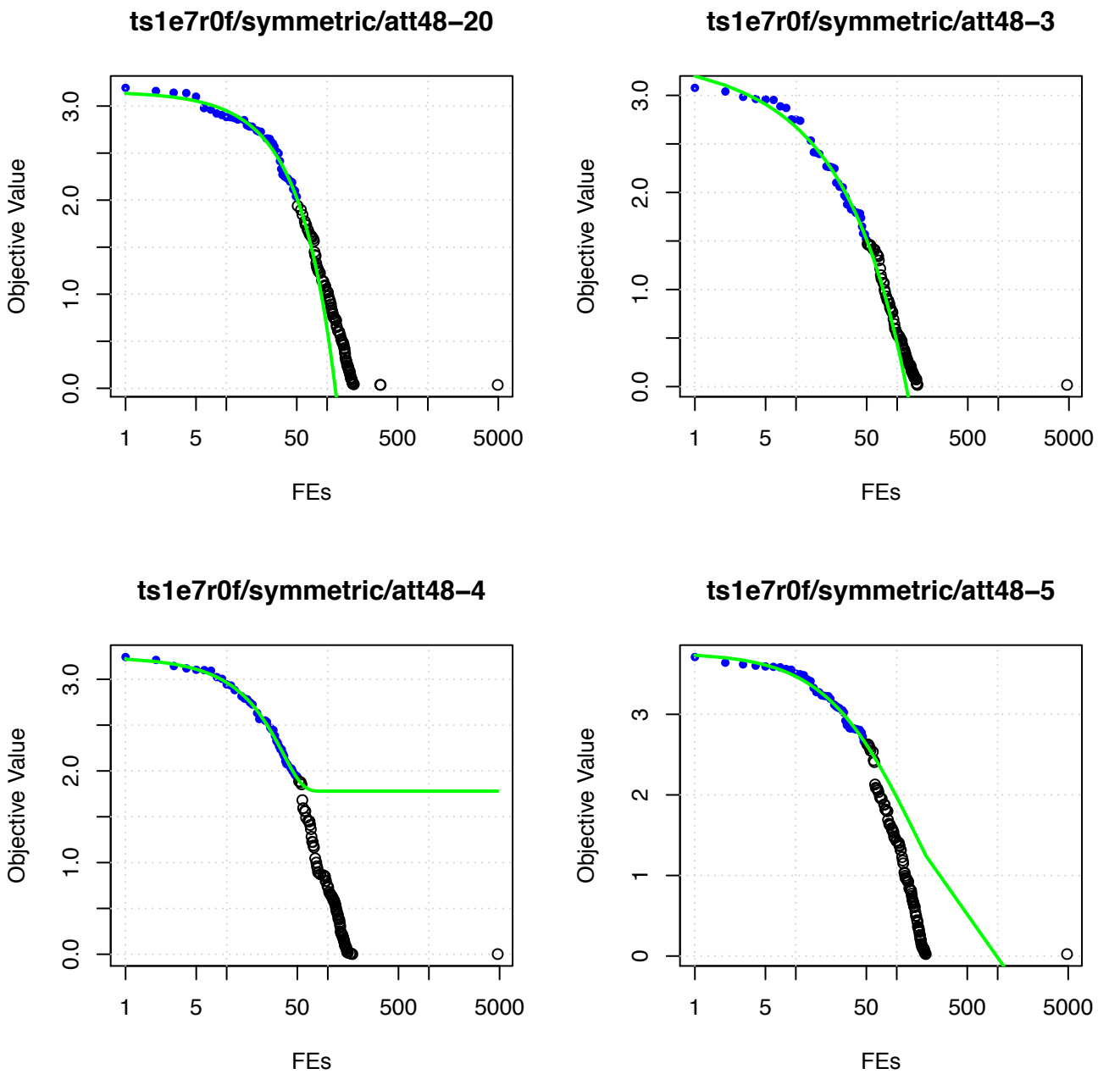
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/att48−20
ts1e7r0f/symmetric/att48−3
ts1e7r0f/symmetric/att48−4
ts1e7r0f/symmetric/att48−5
Objective Value
FEs
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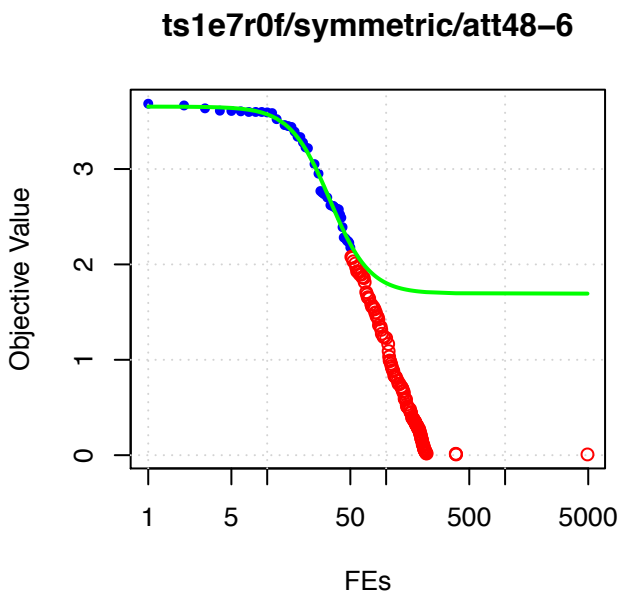
1.0
2.0
3.0
0
1
2
3
1
5
50
500
5000


ts1e7r0f/symmetric/att48−6
Objective Value
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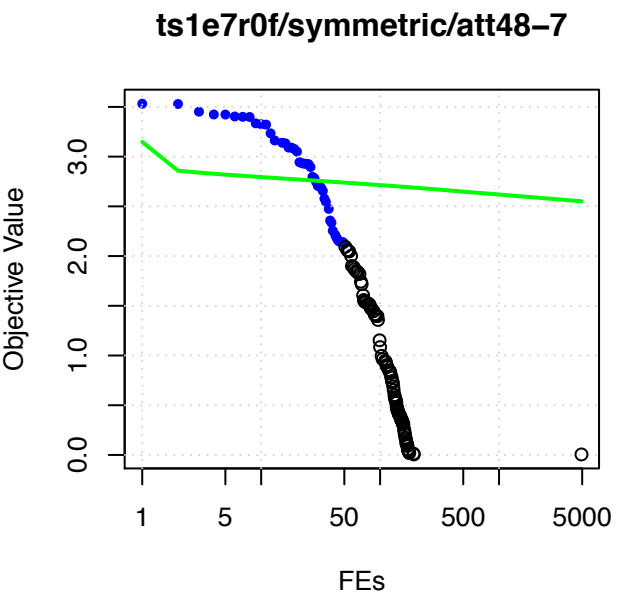
2
3
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/att48−7
Objective Value
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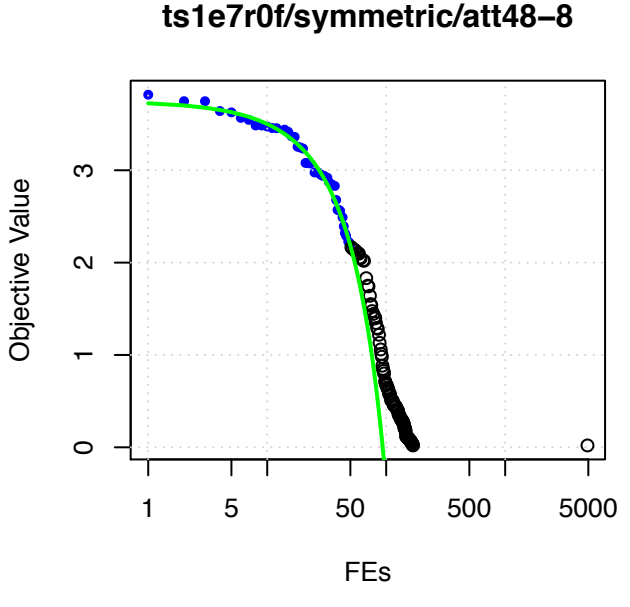
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/att48−8
Objective Value
0
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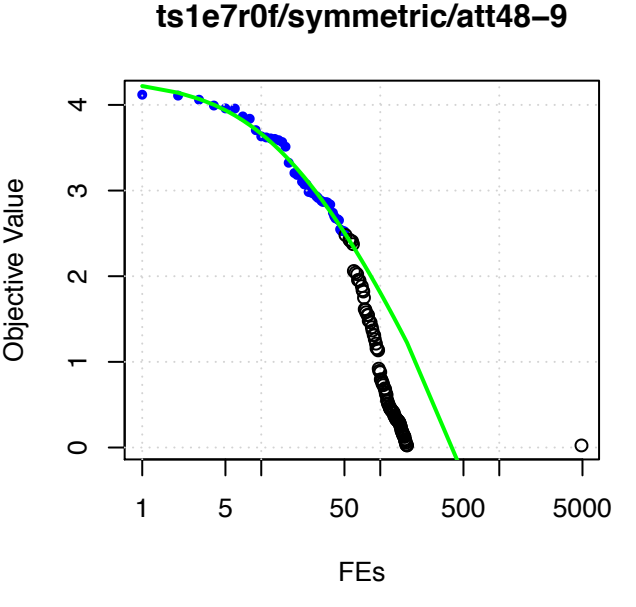
2
3
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/att48−9
Objective Value
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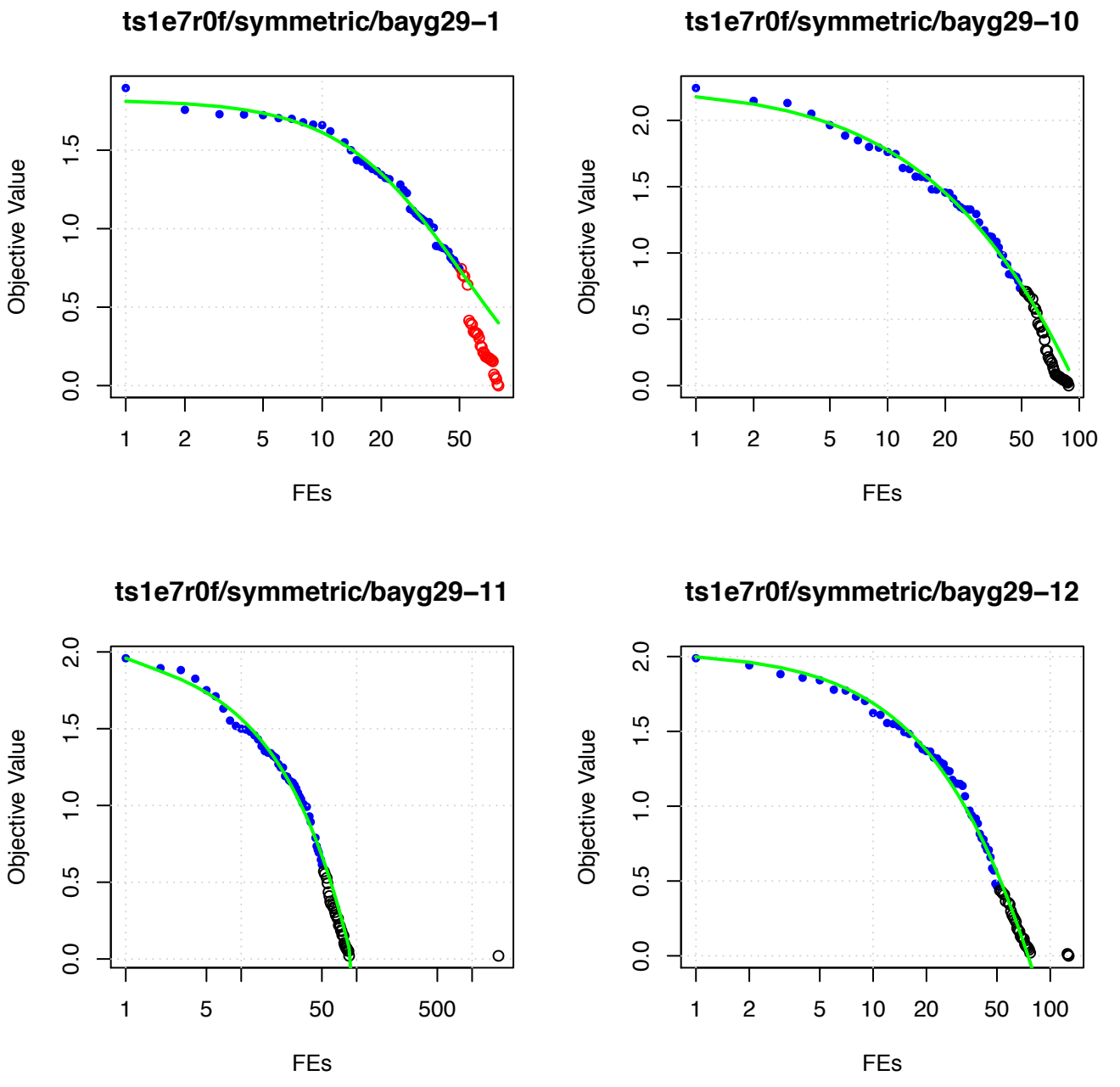
1
2
3
4
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/bayg29−1
ts1e7r0f/symmetric/bayg29−10
ts1e7r0f/symmetric/bayg29−11
ts1e7r0f/symmetric/bayg29−12
Objective Value
FEs
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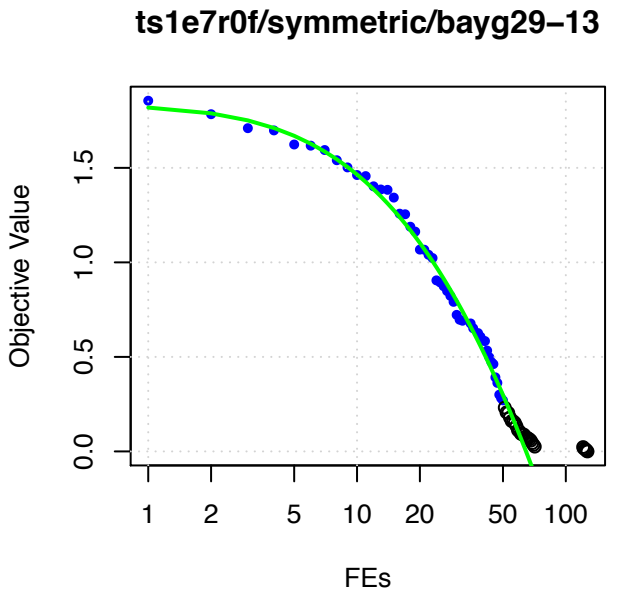
0.5
1.0
1.5
2.0
1
2
5
10
20
50
100
500


ts1e7r0f/symmetric/bayg29−13
Objective Value
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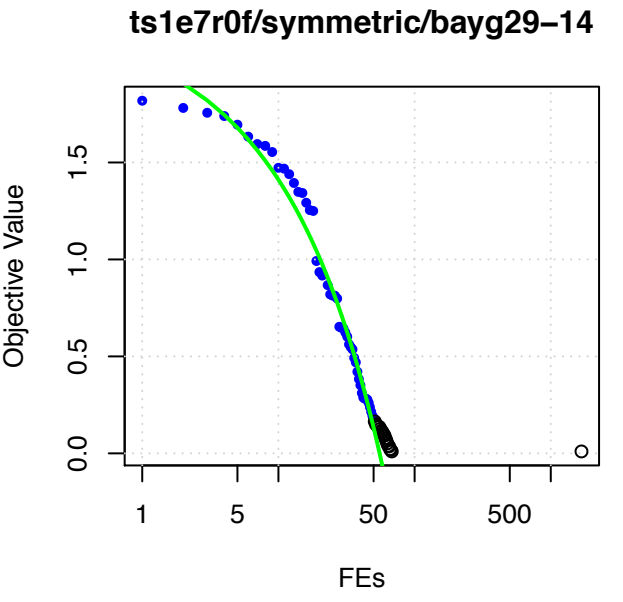
1.0
1.5
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/bayg29−14
Objective Value
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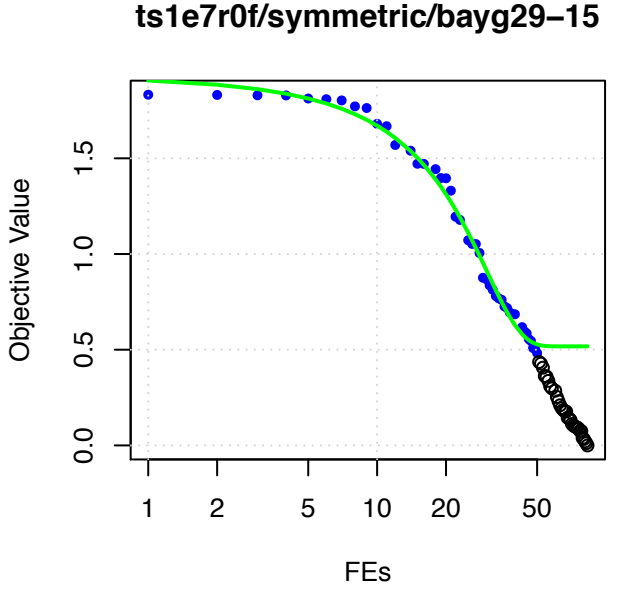
1.0
1.5
1
5
50
500
FEs


ts1e7r0f/symmetric/bayg29−15
Objective Value
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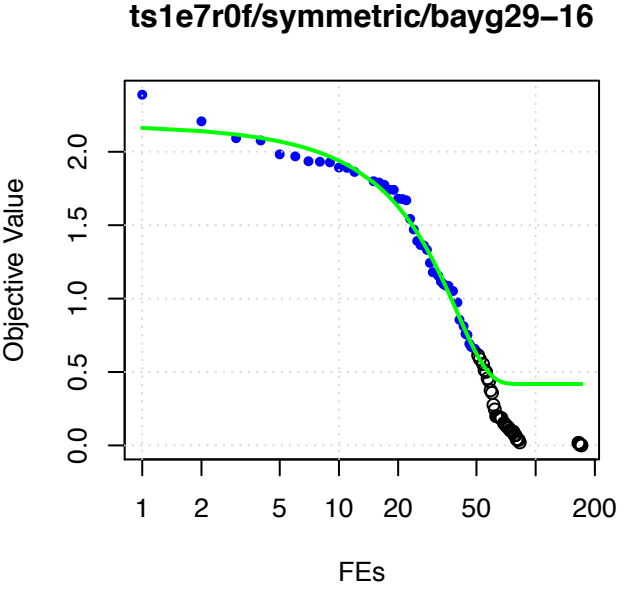
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/bayg29−16
Objective Value
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0.5
1.0
1.5
2.0
1
2
5
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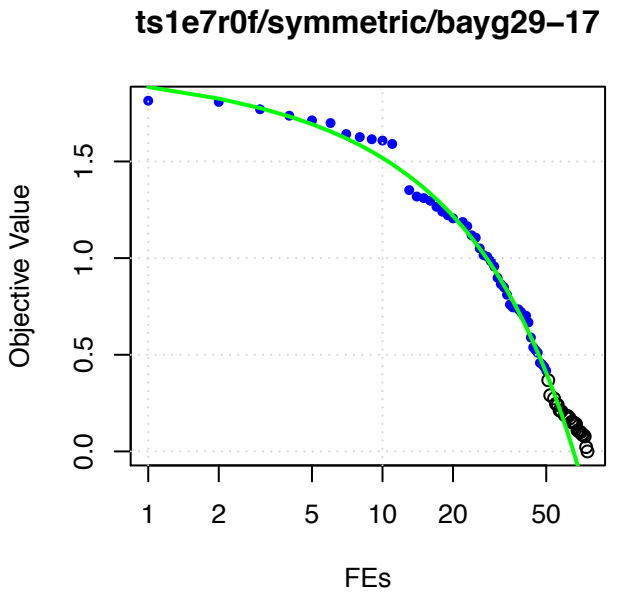
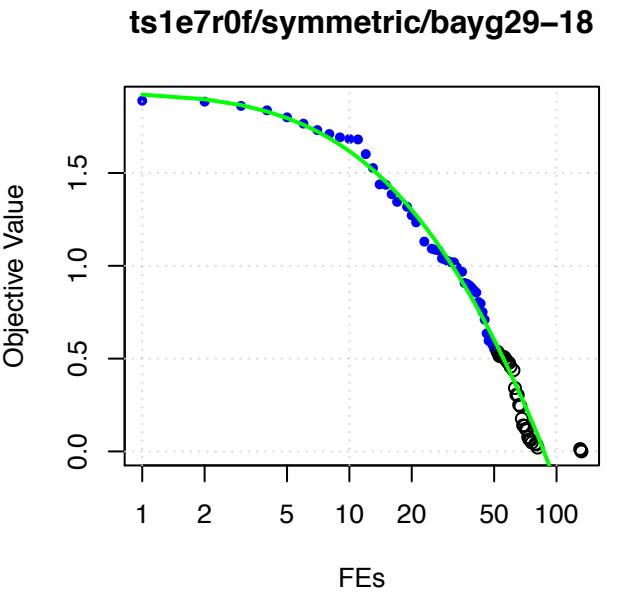
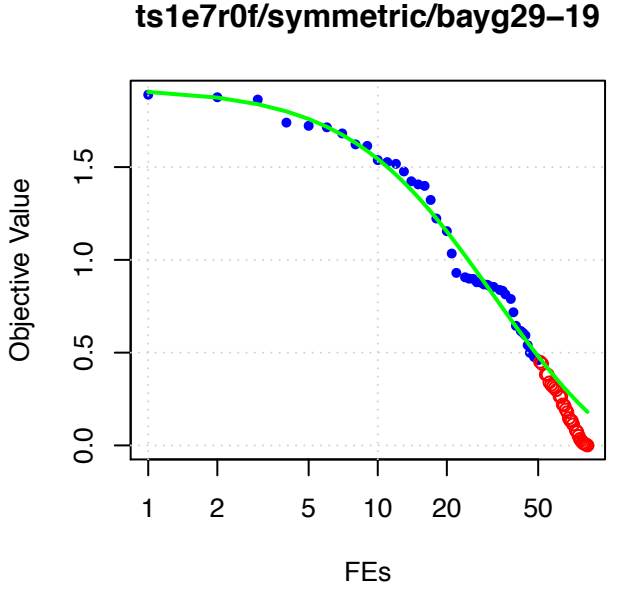
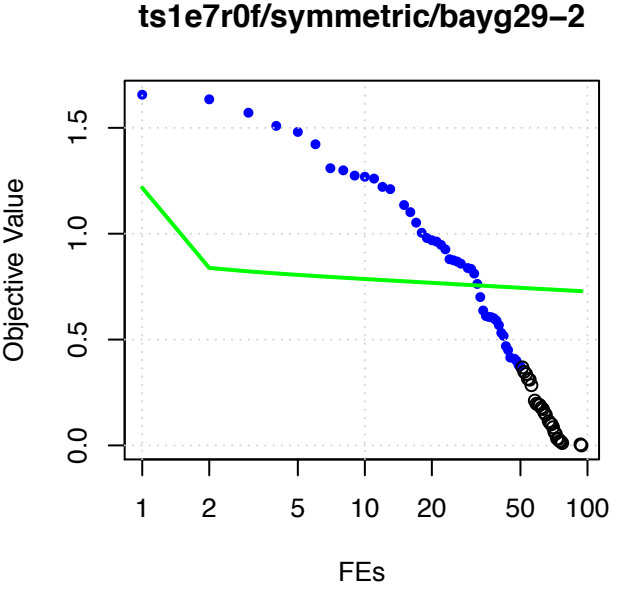
20
50
200
FEs


ts1e7r0f/symmetric/bayg29−17
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/bayg29−18
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/bayg29−19
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/bayg29−2
Objective Value
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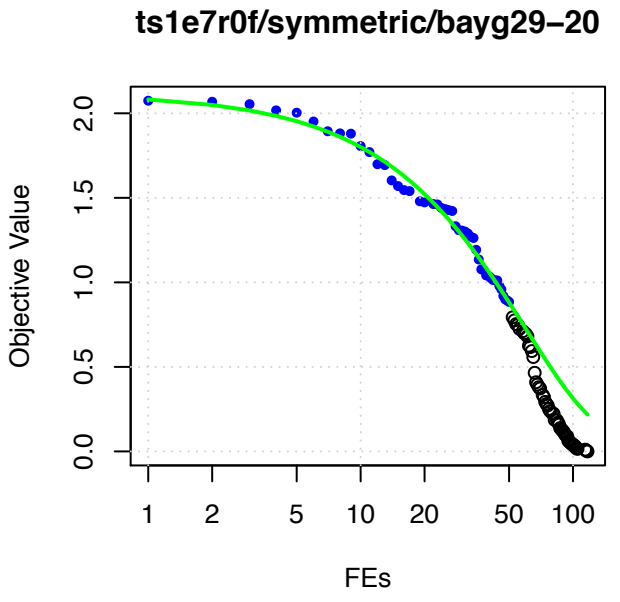
0.5
1.0
1.5
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/bayg29−20
Objective Value
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0.5
1.0
1.5
2.0
1
2
5
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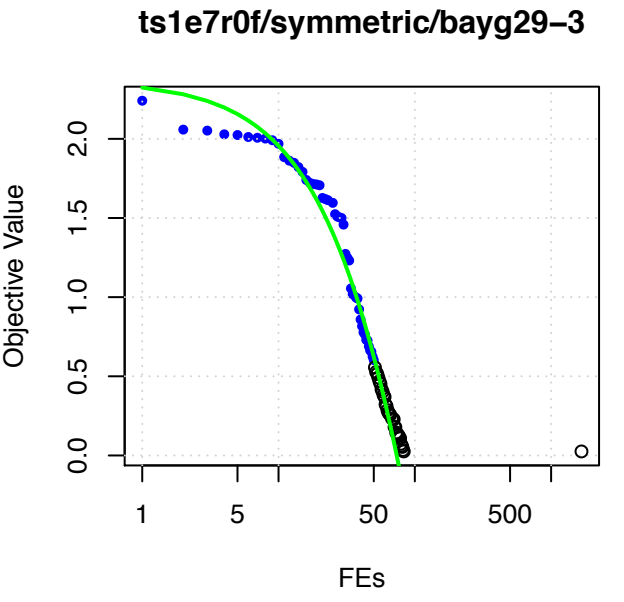
20
50
100
FEs


ts1e7r0f/symmetric/bayg29−3
Objective Value
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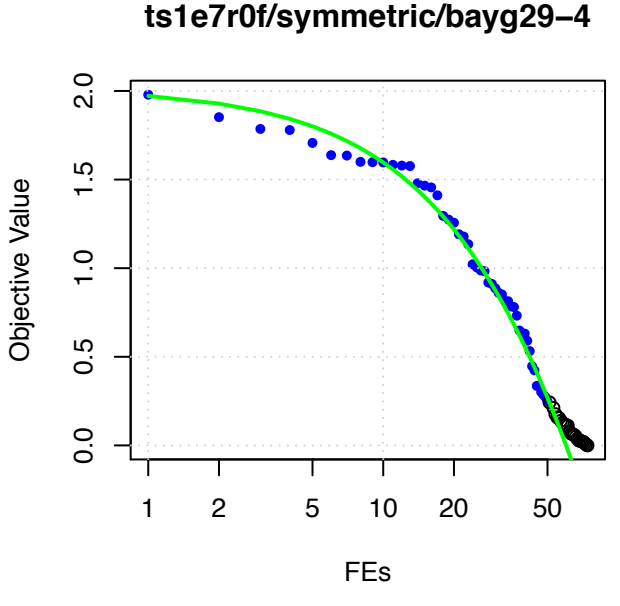
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts1e7r0f/symmetric/bayg29−4
Objective Value
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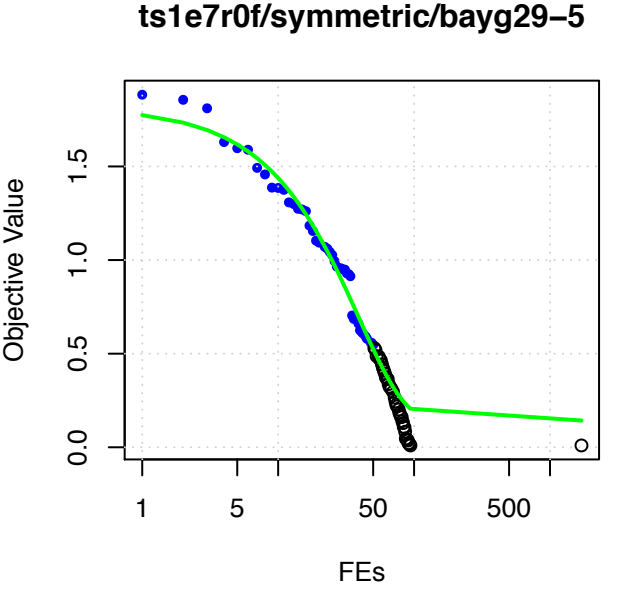
0.5
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/bayg29−5
Objective Value
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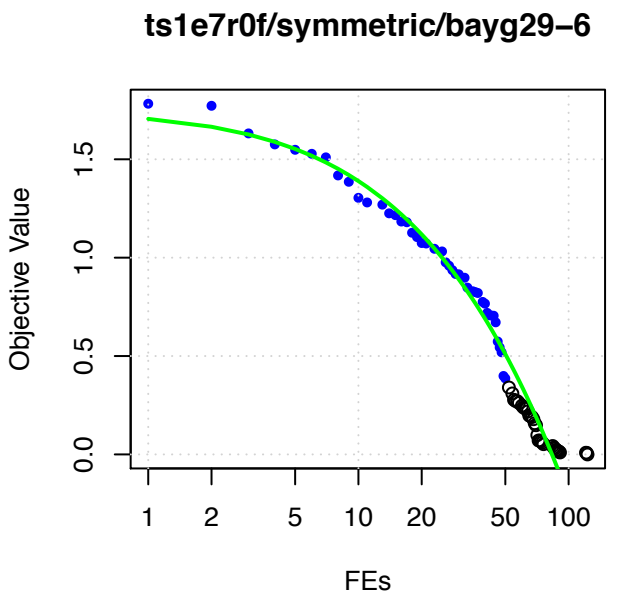
0.5
1.0
1.5
1
5
50
500
FEs


ts1e7r0f/symmetric/bayg29−6
Objective Value
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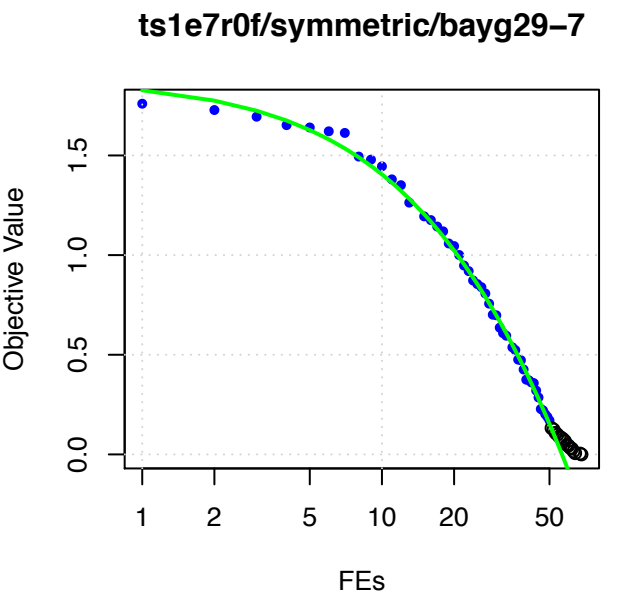
0.5
1.0
1.5
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/bayg29−7
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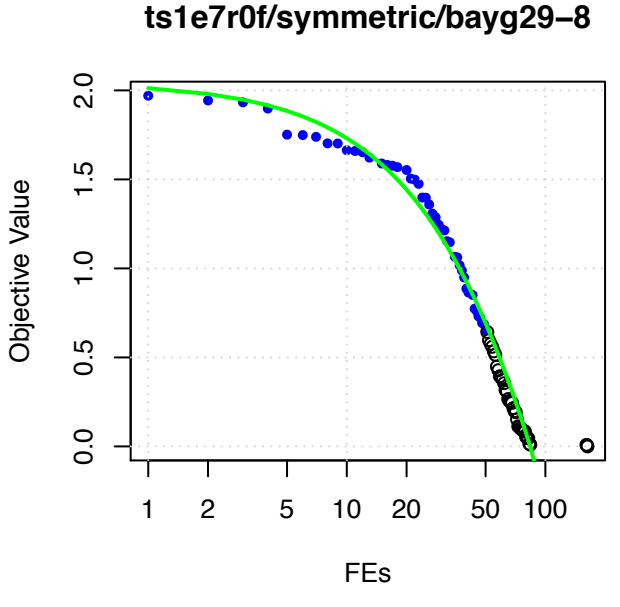
FEs


ts1e7r0f/symmetric/bayg29−8
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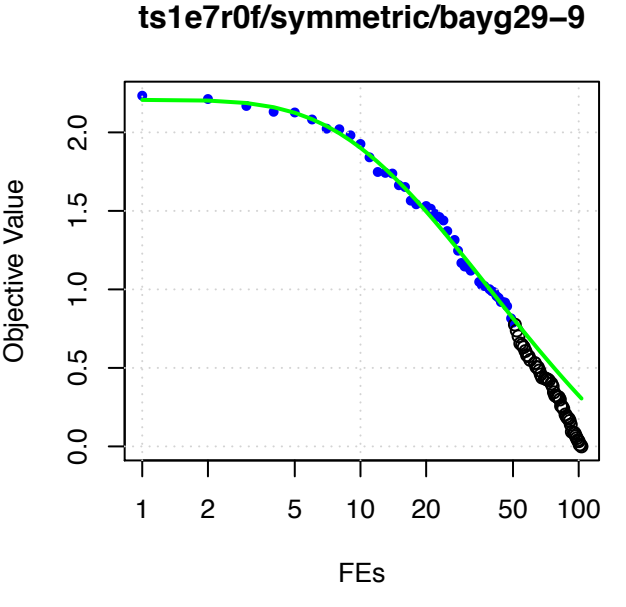
100
FEs


ts1e7r0f/symmetric/bayg29−9
Objective Value
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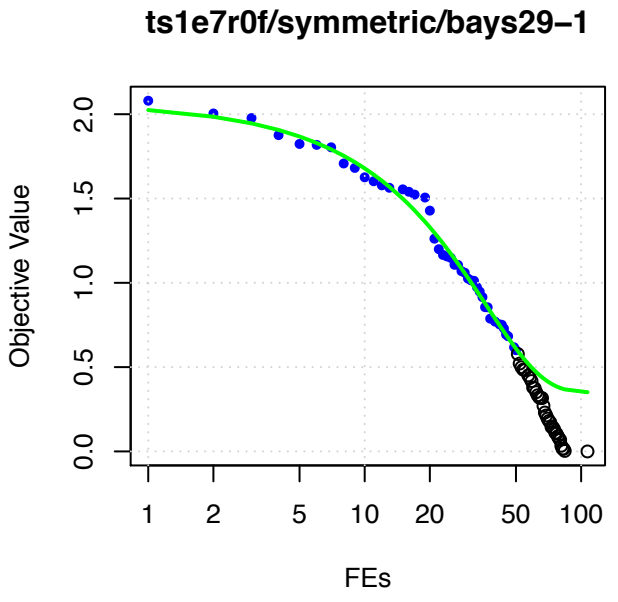
100
FEs


ts1e7r0f/symmetric/bays29−1
Objective Value
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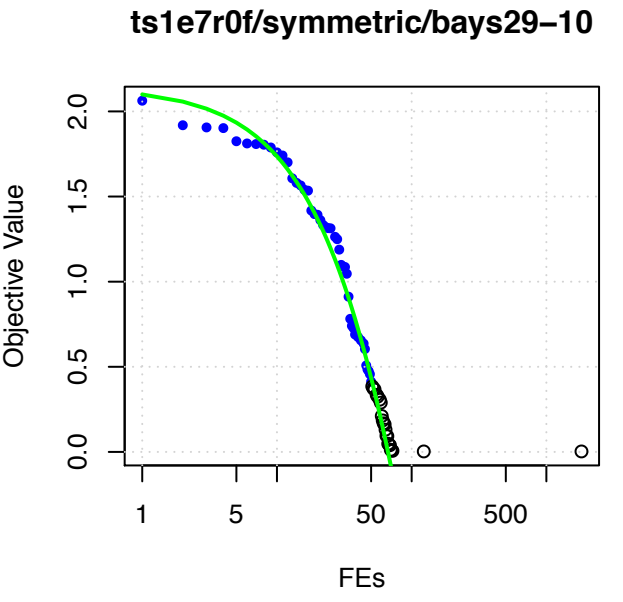
100
FEs


ts1e7r0f/symmetric/bays29−10
Objective Value
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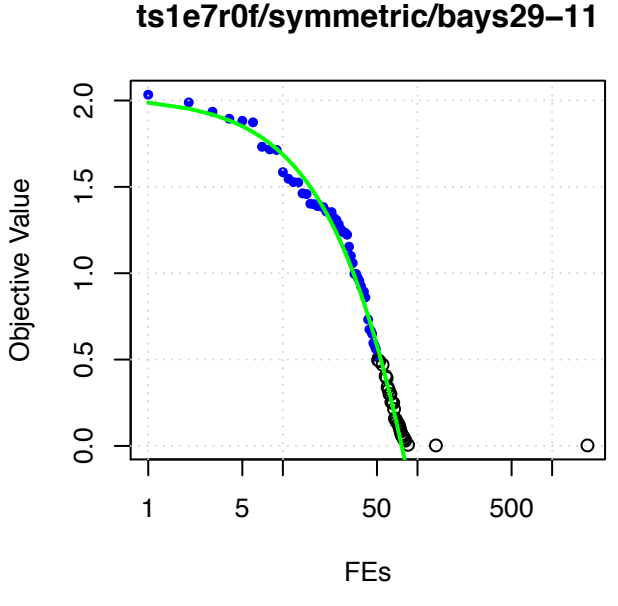
50
500
FEs


ts1e7r0f/symmetric/bays29−11
Objective Value
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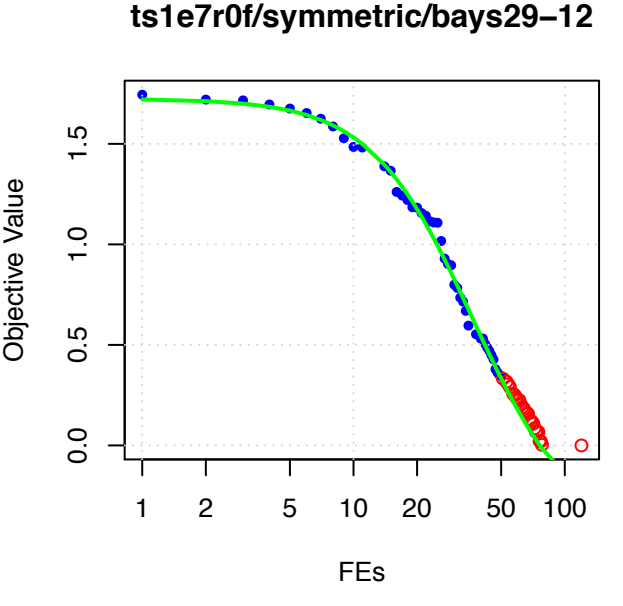
FEs


ts1e7r0f/symmetric/bays29−12
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1.5
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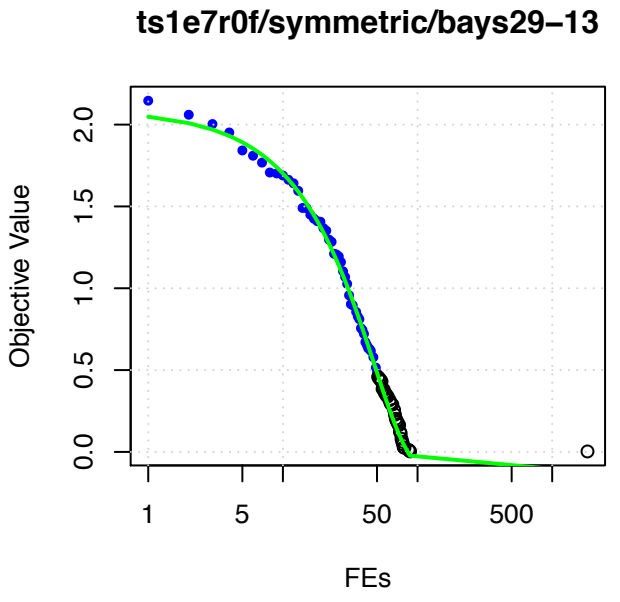
FEs


ts1e7r0f/symmetric/bays29−13
Objective Value
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1.5
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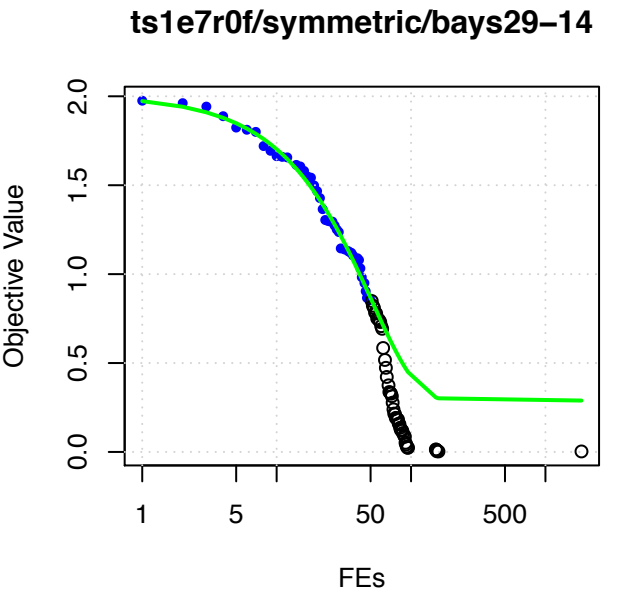
500
FEs


ts1e7r0f/symmetric/bays29−14
Objective Value
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1.5
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1
5
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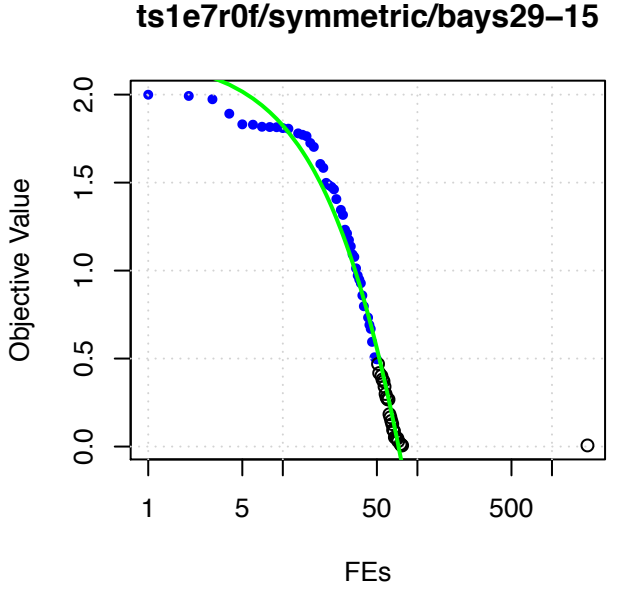
FEs


ts1e7r0f/symmetric/bays29−15
Objective Value
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1.0
1.5
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1
5
50
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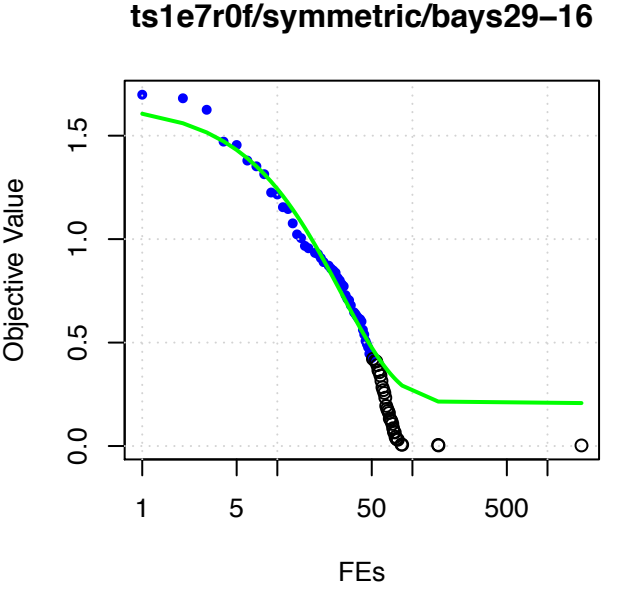
FEs


ts1e7r0f/symmetric/bays29−16
Objective Value
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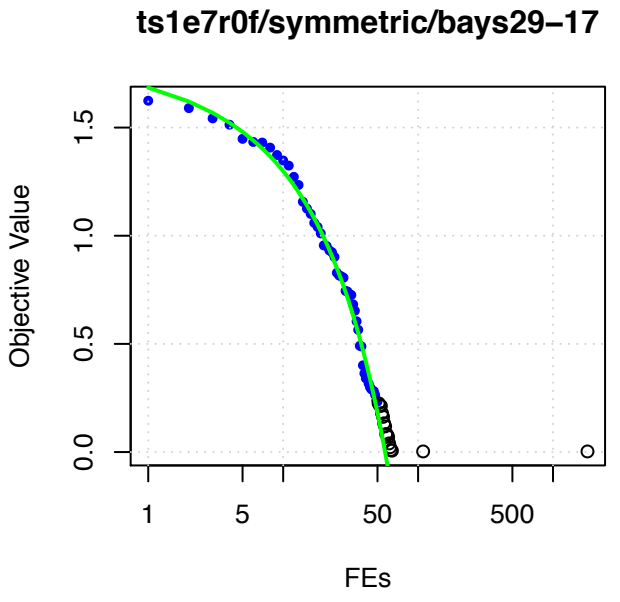
0.5
1.0
1.5
1
5
50
500
FEs


ts1e7r0f/symmetric/bays29−17
Objective Value
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0.5
1.0
1.5
1
5
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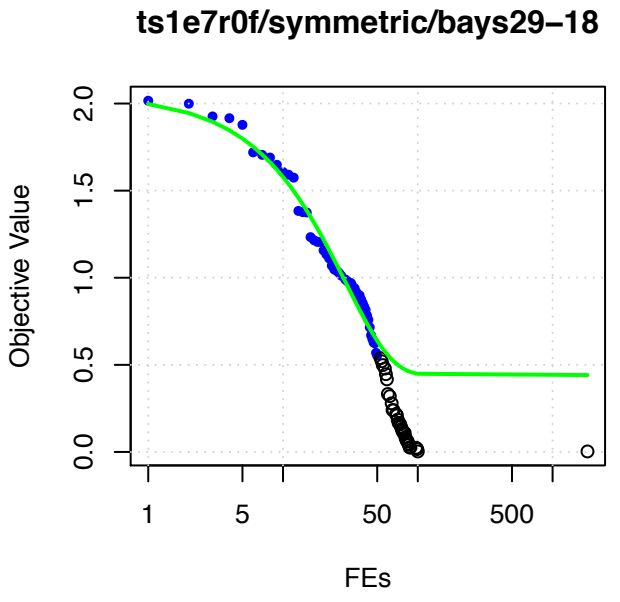
500
FEs


ts1e7r0f/symmetric/bays29−18
Objective Value
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1.0
1.5
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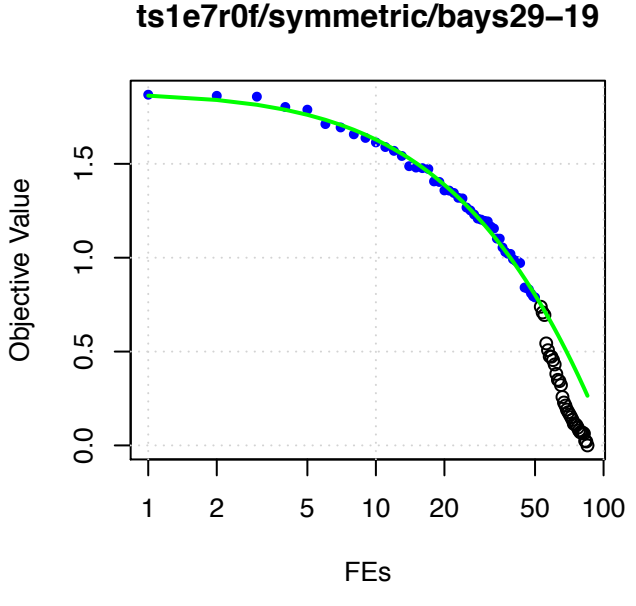
1
5
50
500
FEs


ts1e7r0f/symmetric/bays29−19
Objective Value
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1.5
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2
5
10
20
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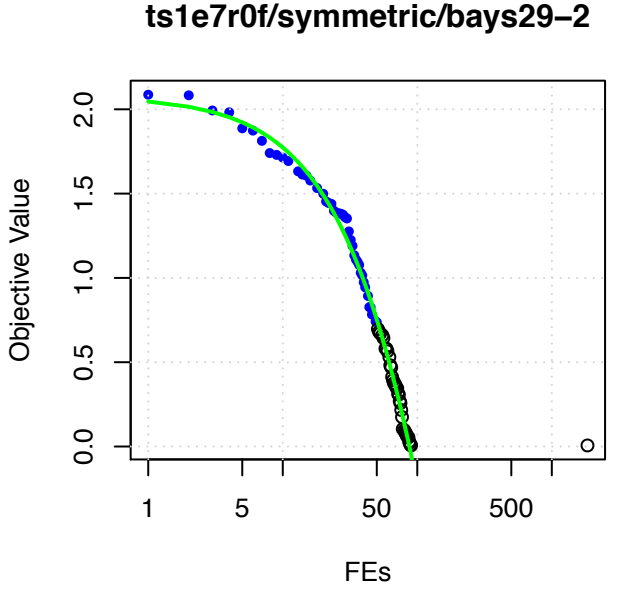
100
FEs


ts1e7r0f/symmetric/bays29−2
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1.5
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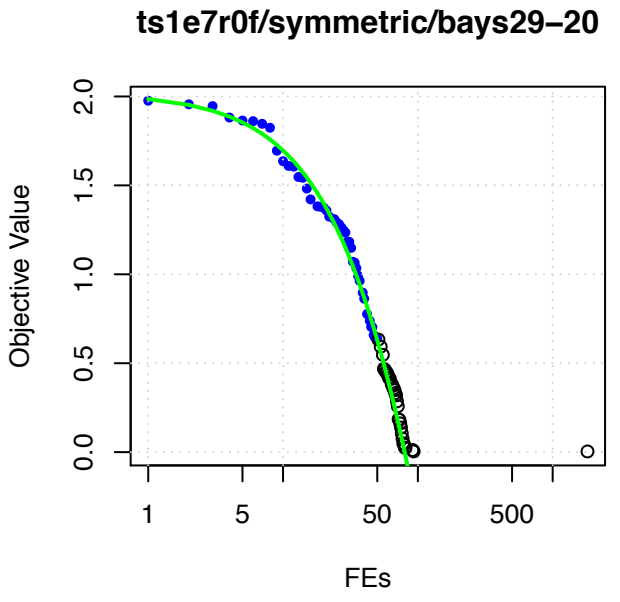
1
5
50
500
FEs


ts1e7r0f/symmetric/bays29−20
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1.0
1.5
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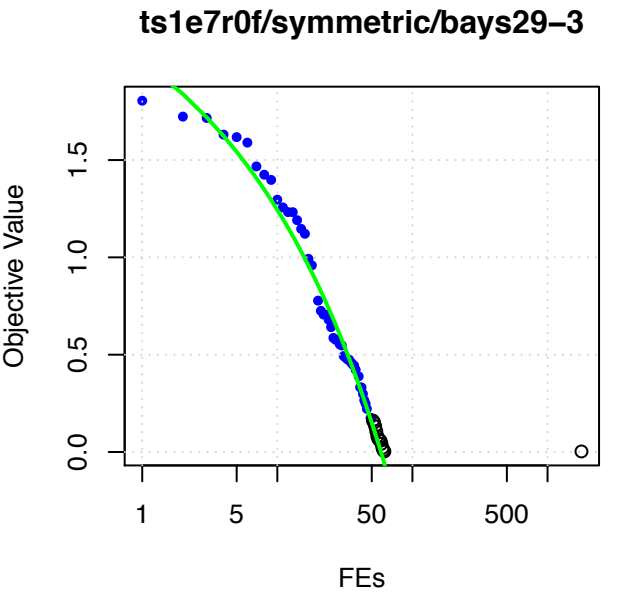
5
50
500
FEs


ts1e7r0f/symmetric/bays29−3
Objective Value
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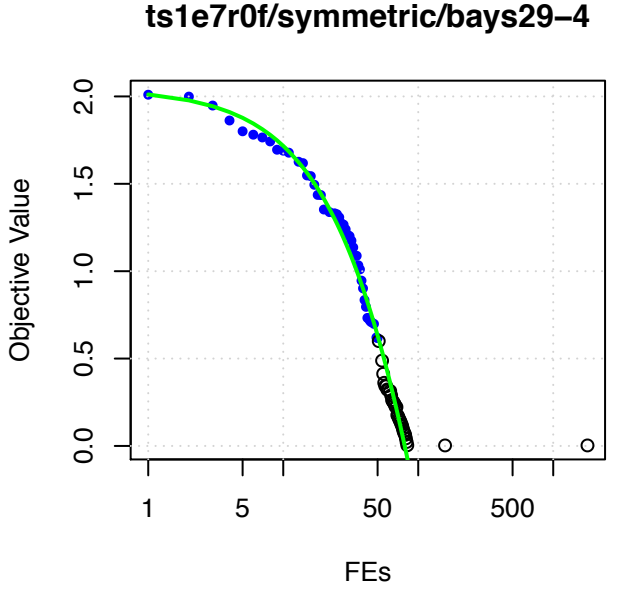
1.0
1.5
1
5
50
500
FEs


ts1e7r0f/symmetric/bays29−4
Objective Value
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1.5
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1
5
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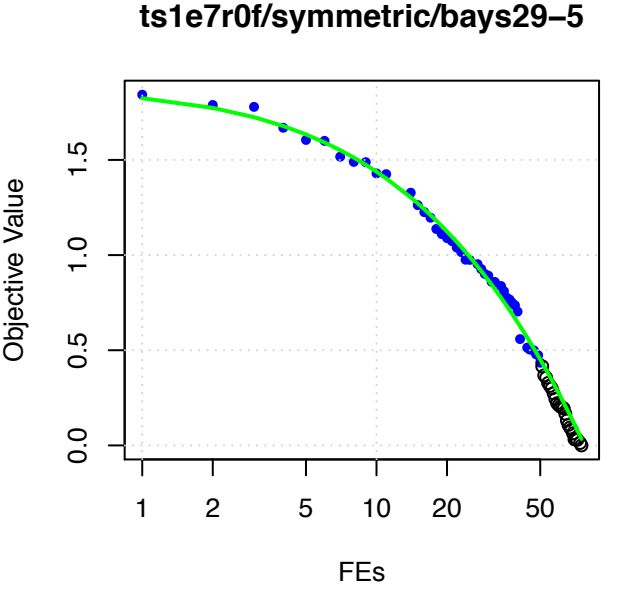
FEs


ts1e7r0f/symmetric/bays29−5
Objective Value
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2
5
10
20
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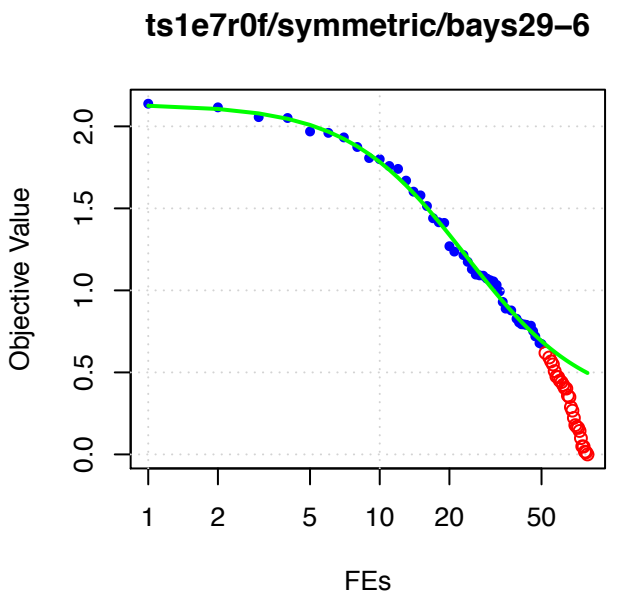
FEs


ts1e7r0f/symmetric/bays29−6
Objective Value
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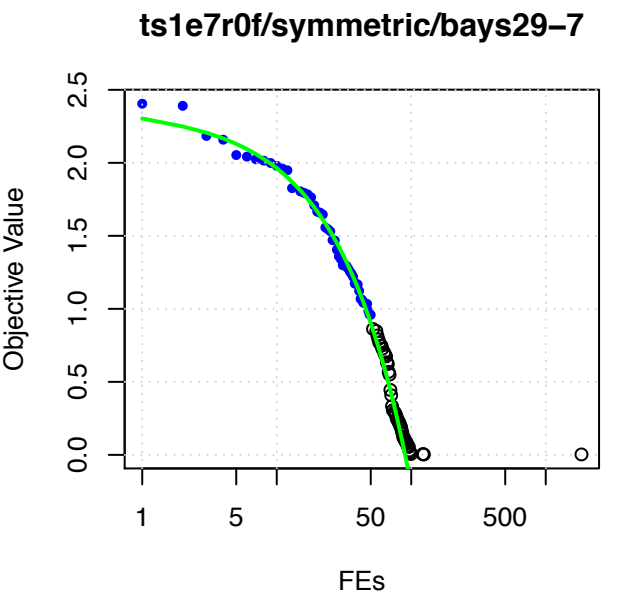
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/bays29−7
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1
5
50
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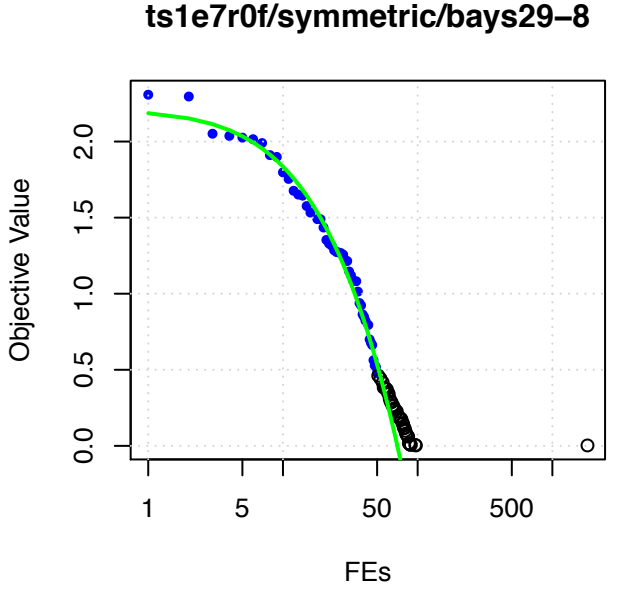
FEs


ts1e7r0f/symmetric/bays29−8
Objective Value
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1.5
2.0
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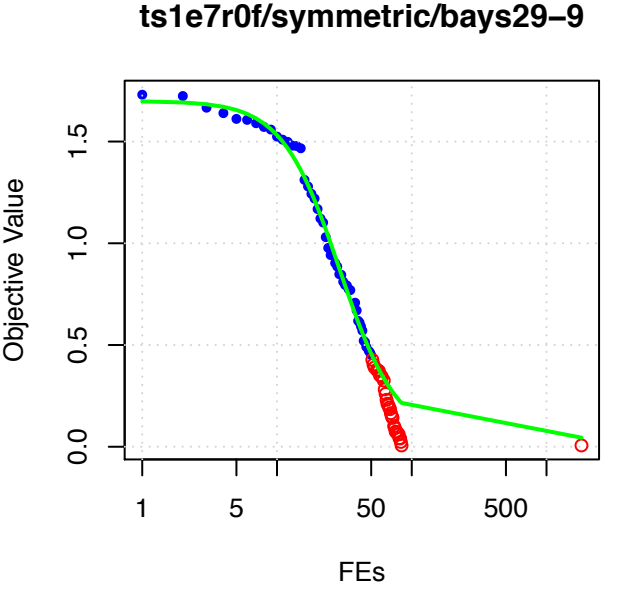
5
50
500
FEs


ts1e7r0f/symmetric/bays29−9
Objective Value
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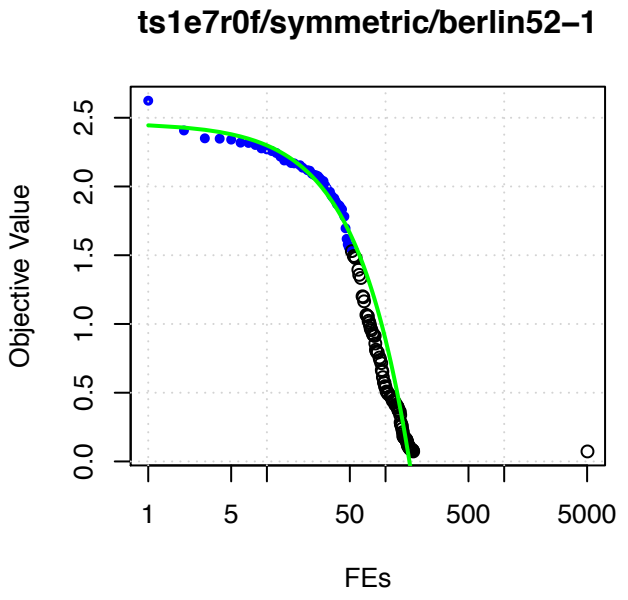
500
FEs


ts1e7r0f/symmetric/berlin52−1
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2.5
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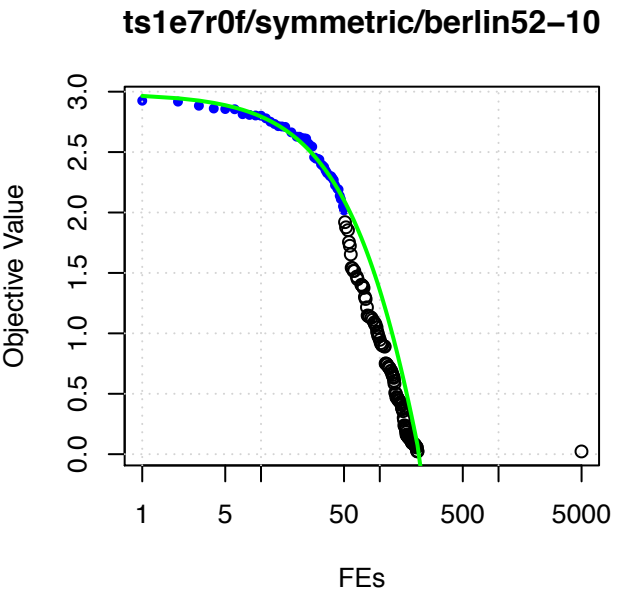
FEs


ts1e7r0f/symmetric/berlin52−10
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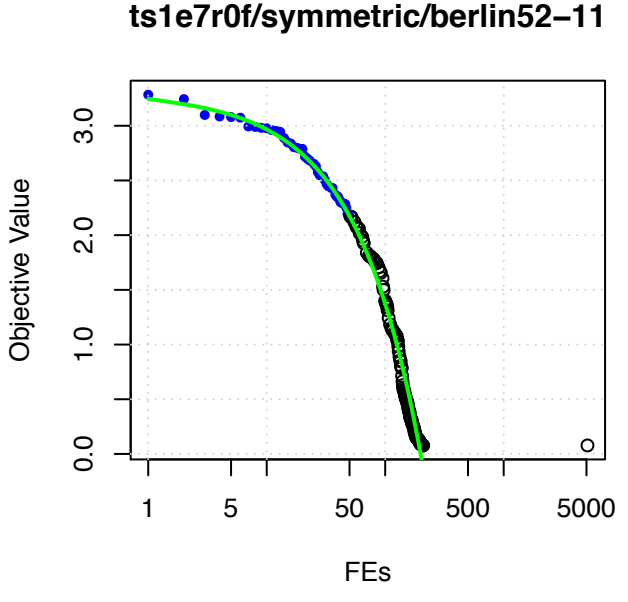
FEs


ts1e7r0f/symmetric/berlin52−11
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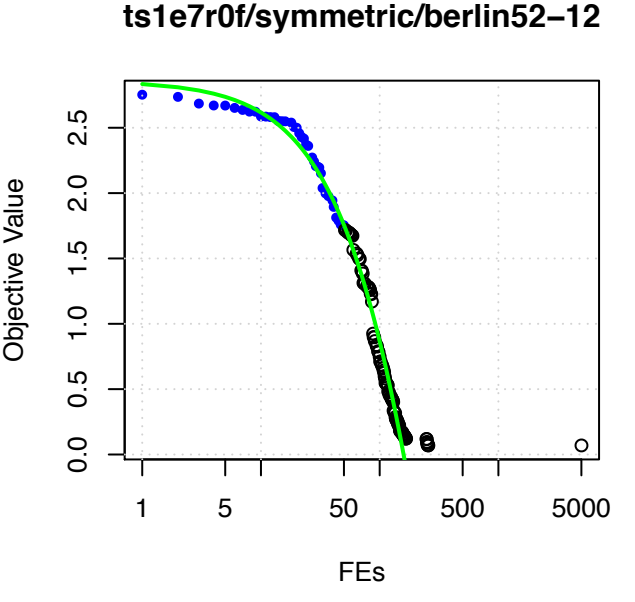
FEs


ts1e7r0f/symmetric/berlin52−12
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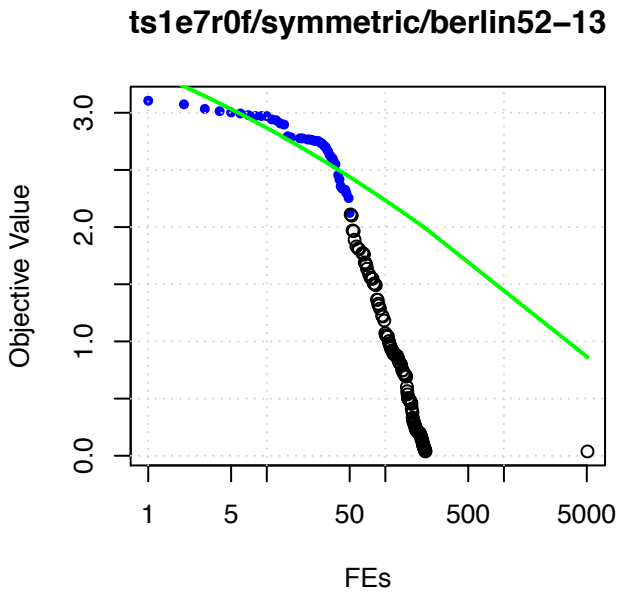
FEs


ts1e7r0f/symmetric/berlin52−13
Objective Value
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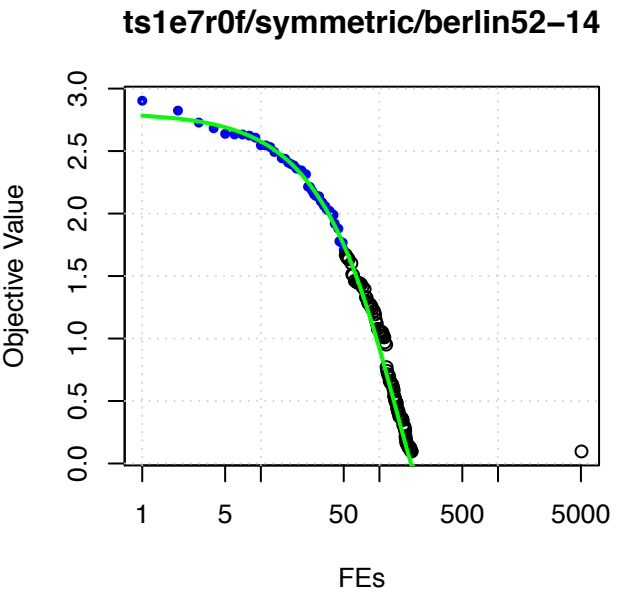
500
5000
FEs


ts1e7r0f/symmetric/berlin52−14
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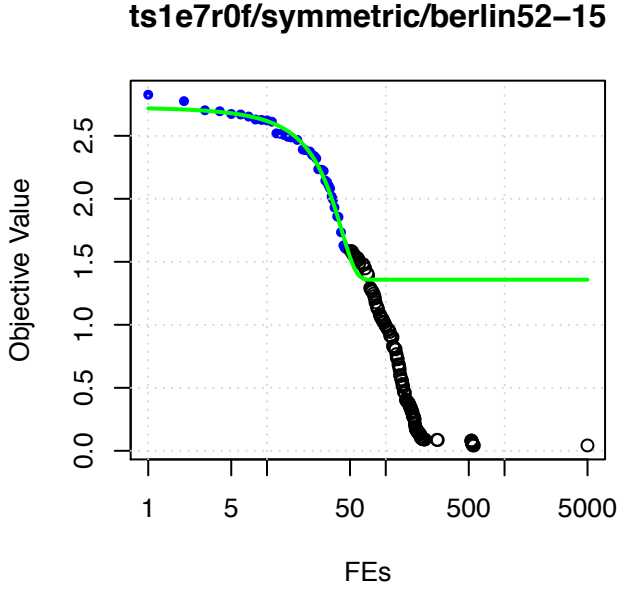
FEs


ts1e7r0f/symmetric/berlin52−15
Objective Value
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2.5
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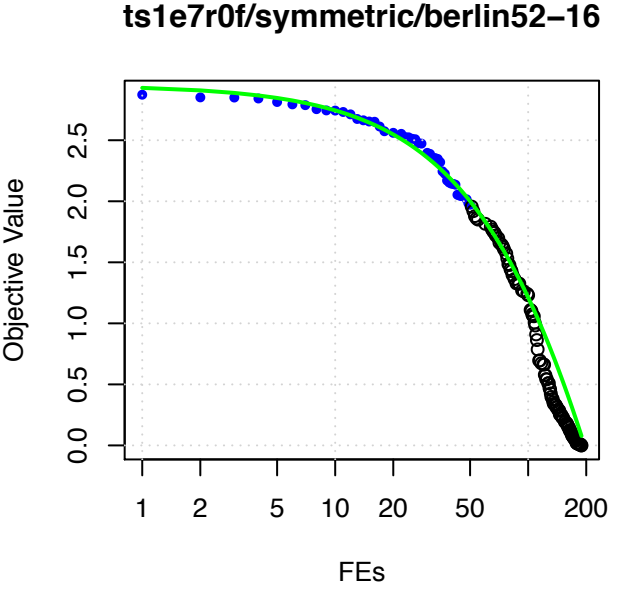
500
5000
FEs


ts1e7r0f/symmetric/berlin52−16
Objective Value
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2
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20
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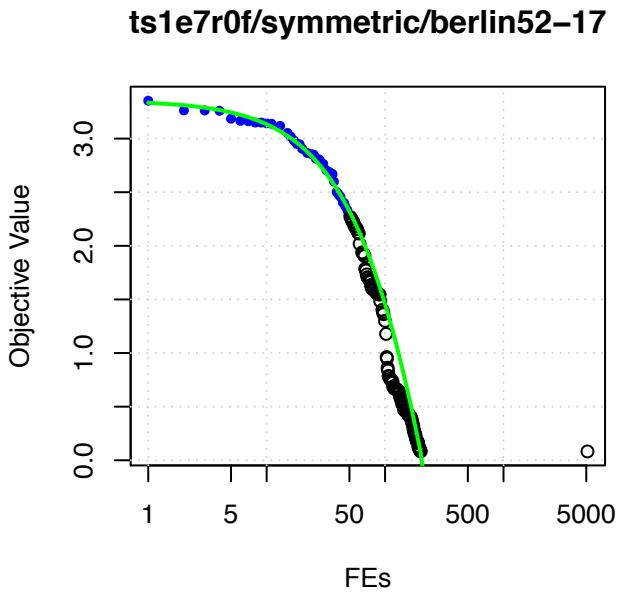
200
FEs


ts1e7r0f/symmetric/berlin52−17
Objective Value
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3.0
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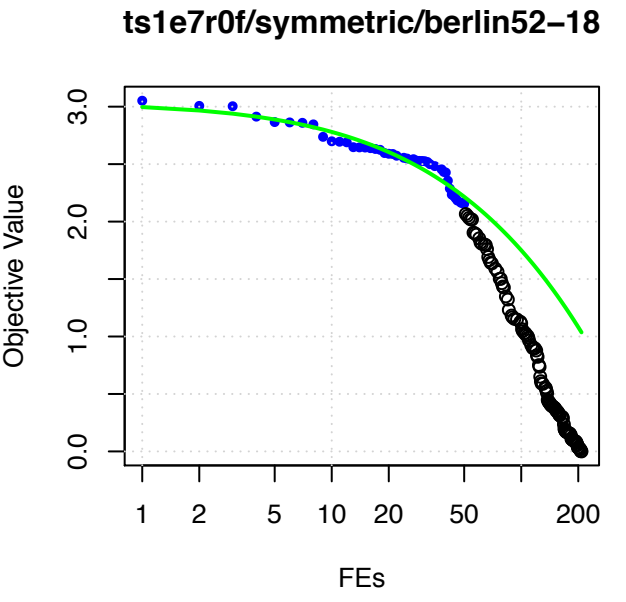
500
5000
FEs


ts1e7r0f/symmetric/berlin52−18
Objective Value
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2.0
3.0
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2
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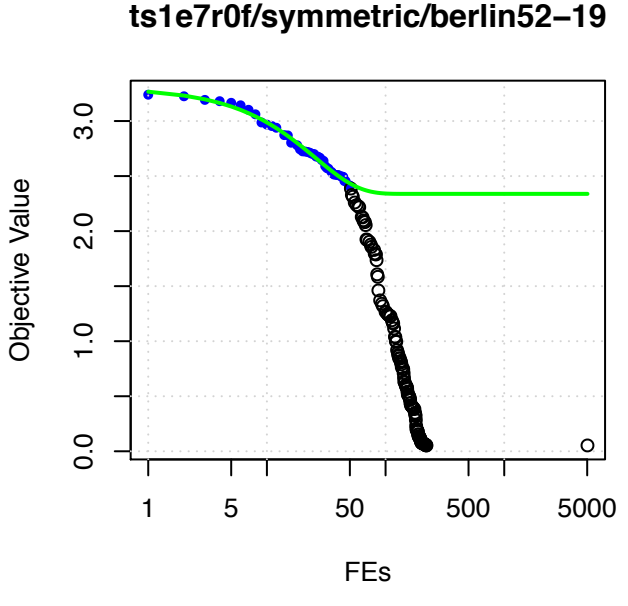
10
20
50
200
FEs


ts1e7r0f/symmetric/berlin52−19
Objective Value
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2.0
3.0
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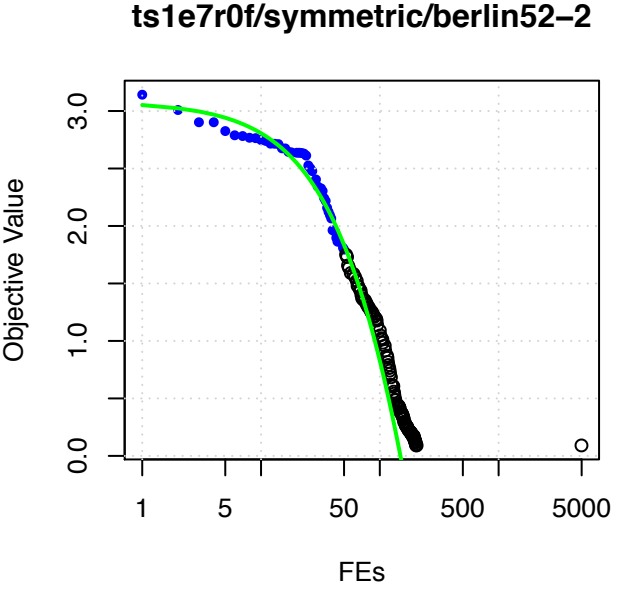
5
50
500
5000
FEs


ts1e7r0f/symmetric/berlin52−2
Objective Value
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2.0
3.0
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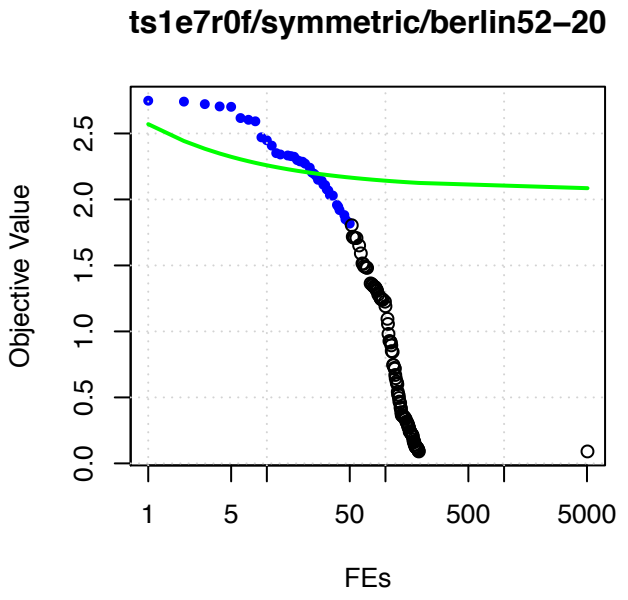
50
500
5000
FEs


ts1e7r0f/symmetric/berlin52−20
Objective Value
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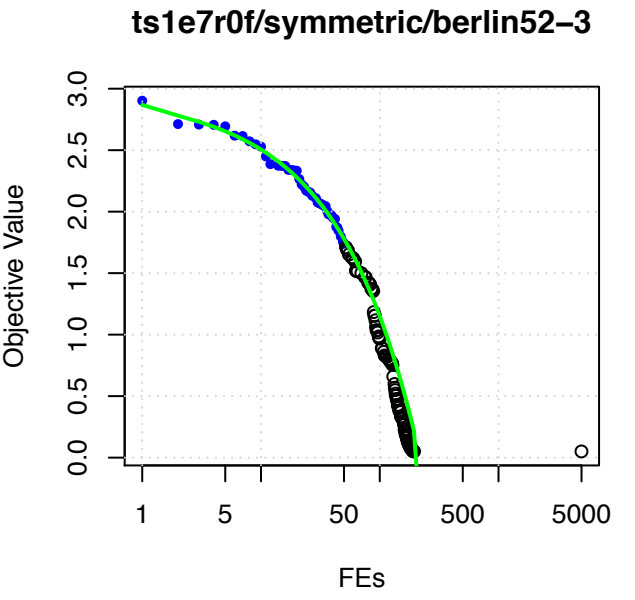
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/berlin52−3
Objective Value
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1.0
1.5
2.0
2.5
3.0
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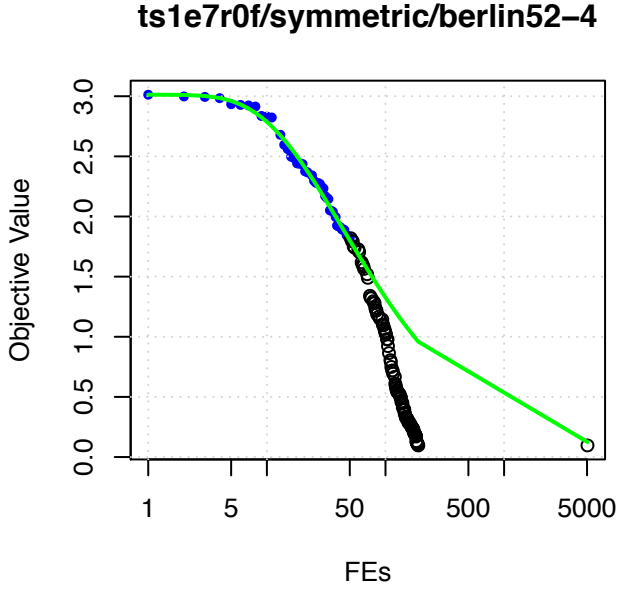
50
500
5000
FEs


ts1e7r0f/symmetric/berlin52−4
Objective Value
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1.5
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2.5
3.0
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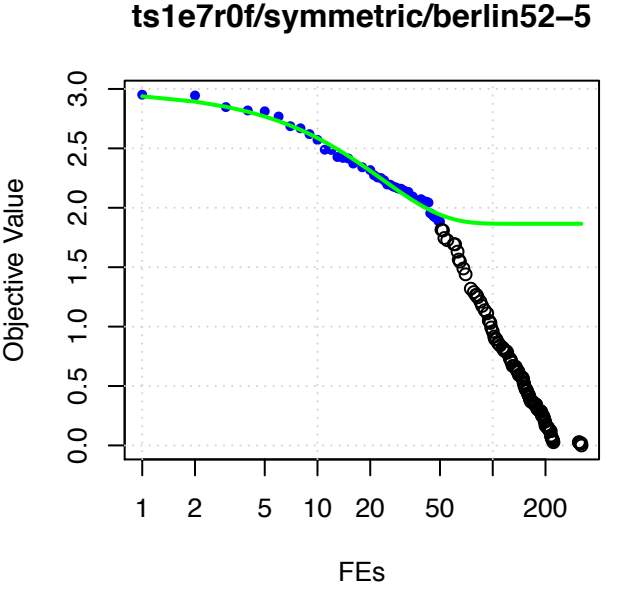
500
5000
FEs


ts1e7r0f/symmetric/berlin52−5
Objective Value
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1.0
1.5
2.0
2.5
3.0
1
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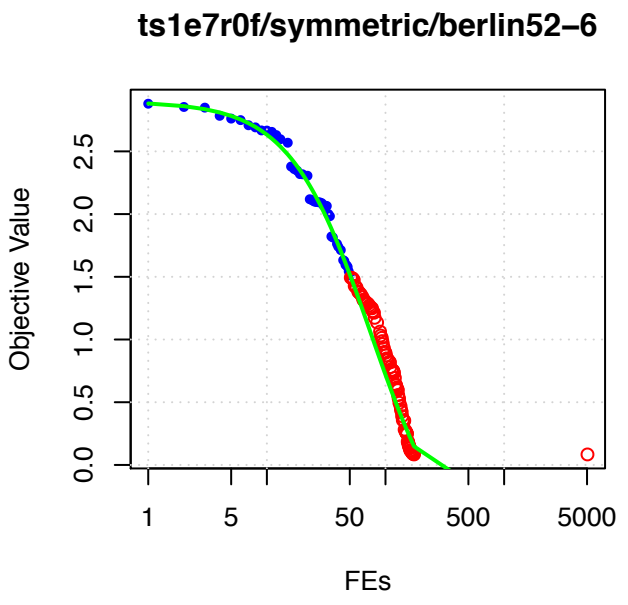
5
10
20
50
200
FEs


ts1e7r0f/symmetric/berlin52−6
Objective Value
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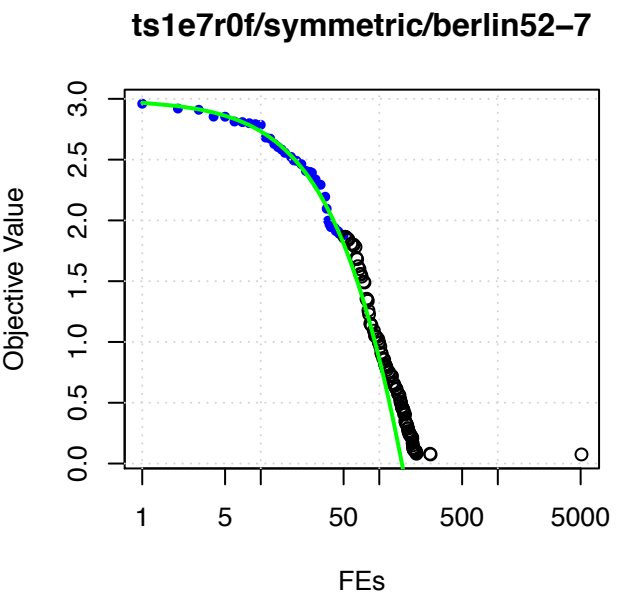
ts1e7r0f/symmetric/berlin52−7
Objective Value
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2.5
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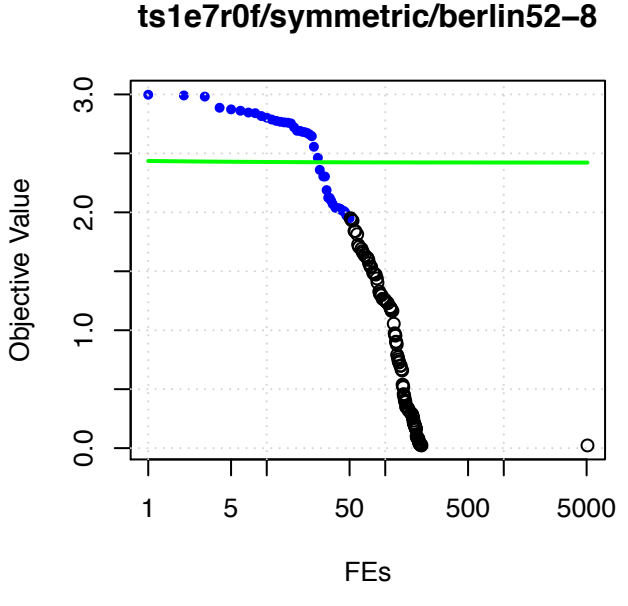
5000
FEs


ts1e7r0f/symmetric/berlin52−8
Objective Value
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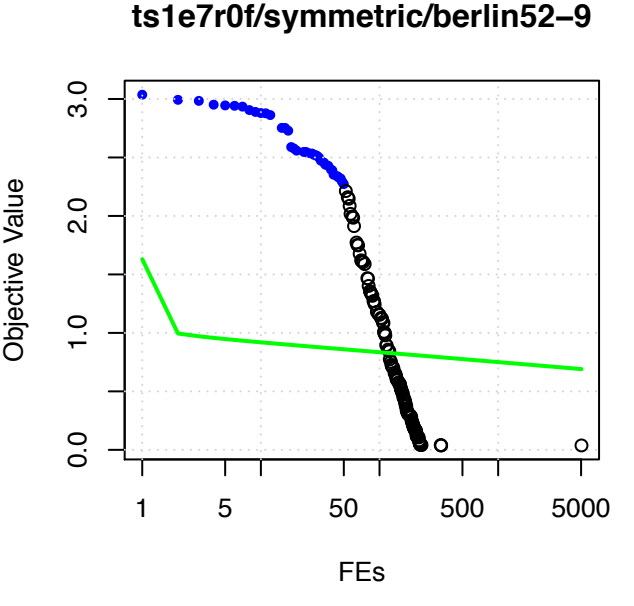
FEs


ts1e7r0f/symmetric/berlin52−9
Objective Value
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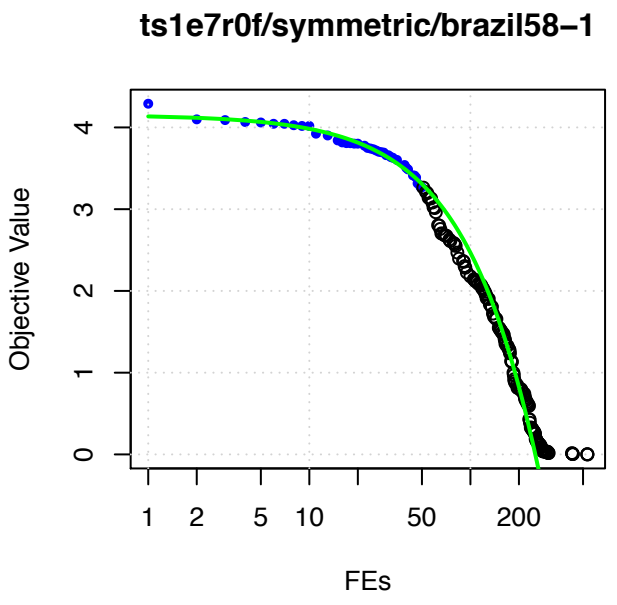
ts1e7r0f/symmetric/brazil58−1
Objective Value
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3
4
1
2
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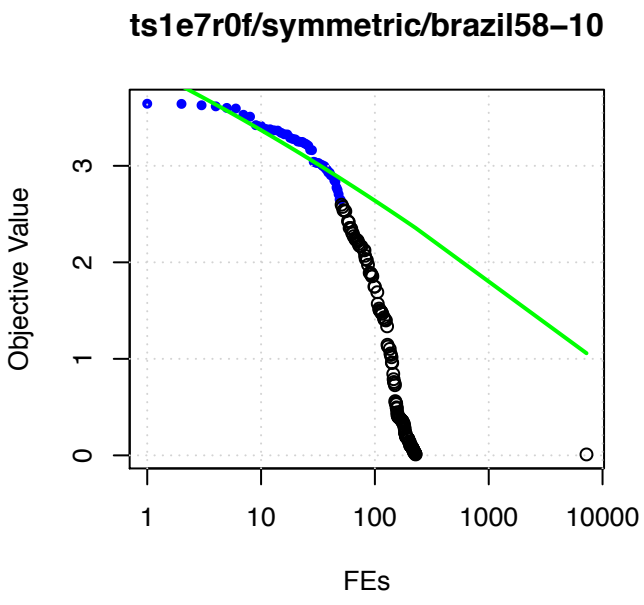
10
50
200
FEs


ts1e7r0f/symmetric/brazil58−10
Objective Value
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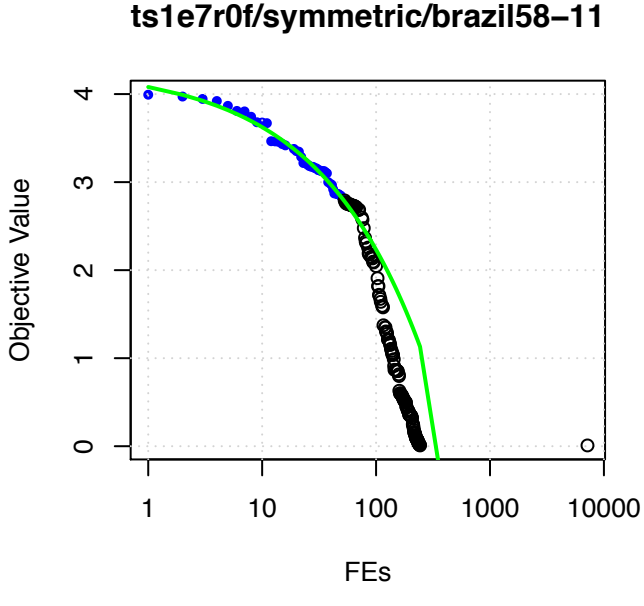
1000
10000
FEs


ts1e7r0f/symmetric/brazil58−11
Objective Value
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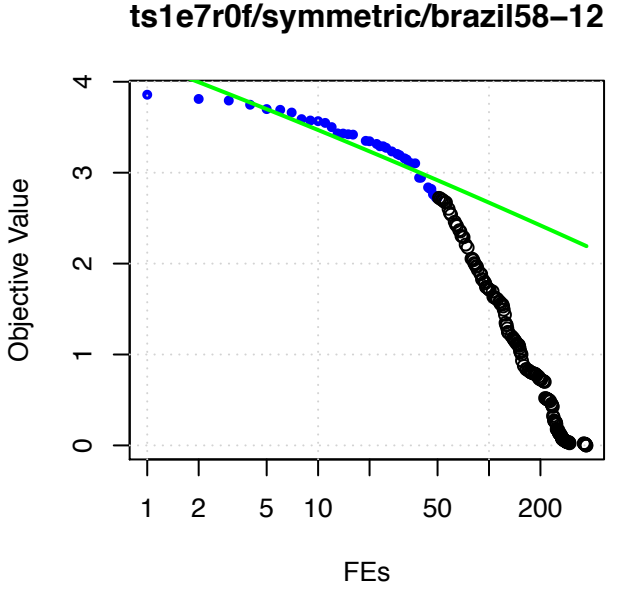
1000
10000
FEs


ts1e7r0f/symmetric/brazil58−12
Objective Value
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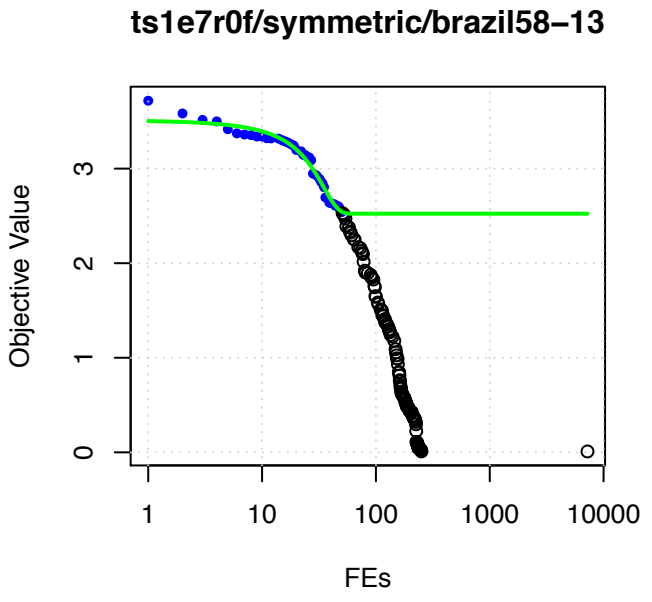
200
FEs


ts1e7r0f/symmetric/brazil58−13
Objective Value
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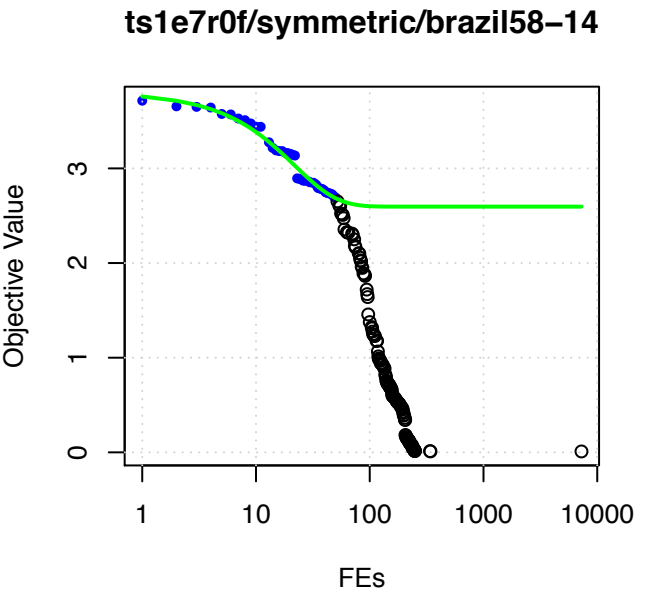
100
1000
10000
FEs


ts1e7r0f/symmetric/brazil58−14
Objective Value
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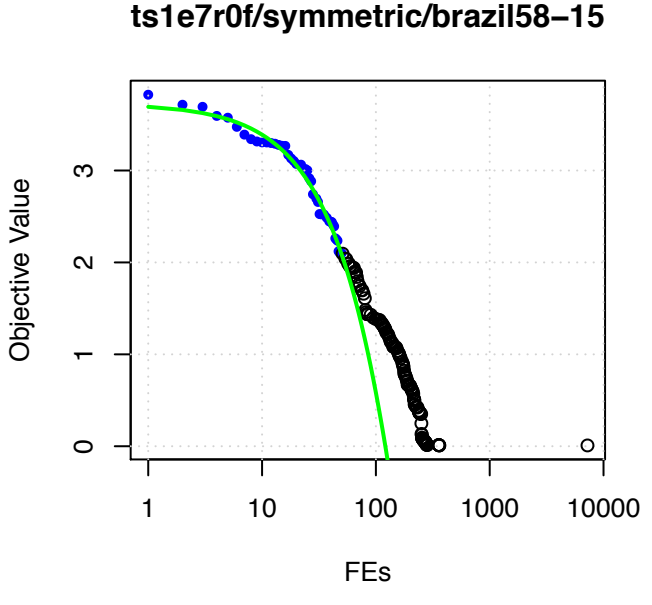
1000
10000
FEs


ts1e7r0f/symmetric/brazil58−15
Objective Value
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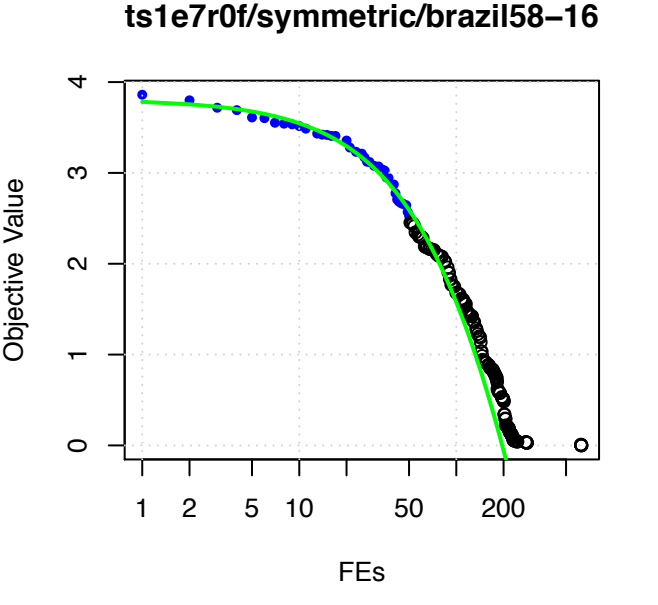
1000
10000
FEs


ts1e7r0f/symmetric/brazil58−16
Objective Value
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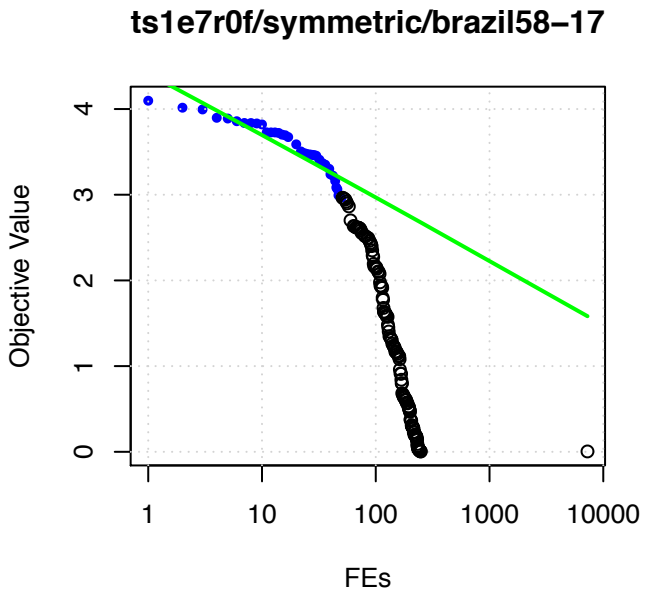
2
3
4
1
2
5
10
50
200
FEs


ts1e7r0f/symmetric/brazil58−17
Objective Value
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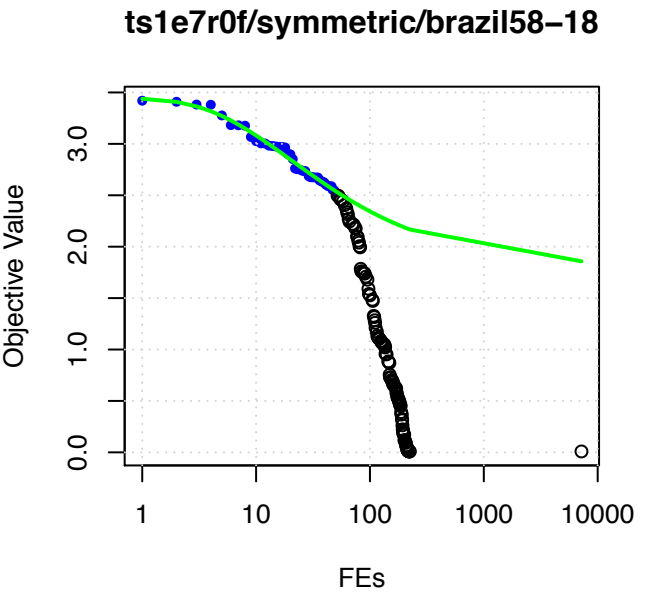
10000
FEs


ts1e7r0f/symmetric/brazil58−18
Objective Value
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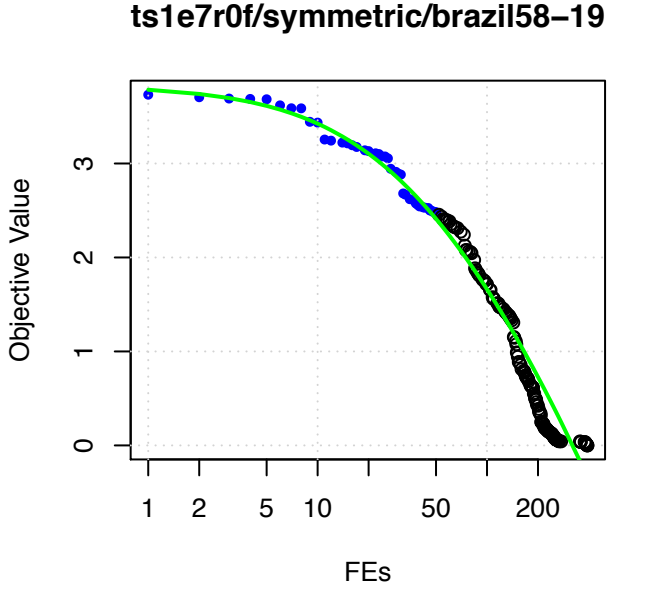
FEs


ts1e7r0f/symmetric/brazil58−19
Objective Value
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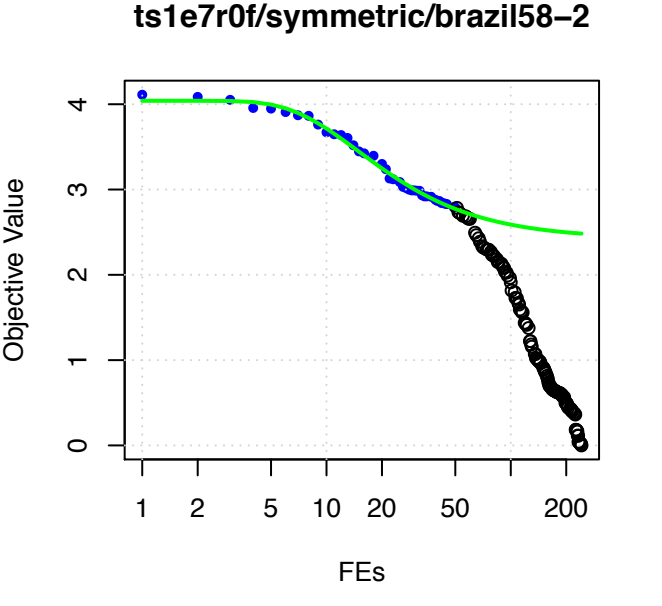
200
FEs


ts1e7r0f/symmetric/brazil58−2
Objective Value
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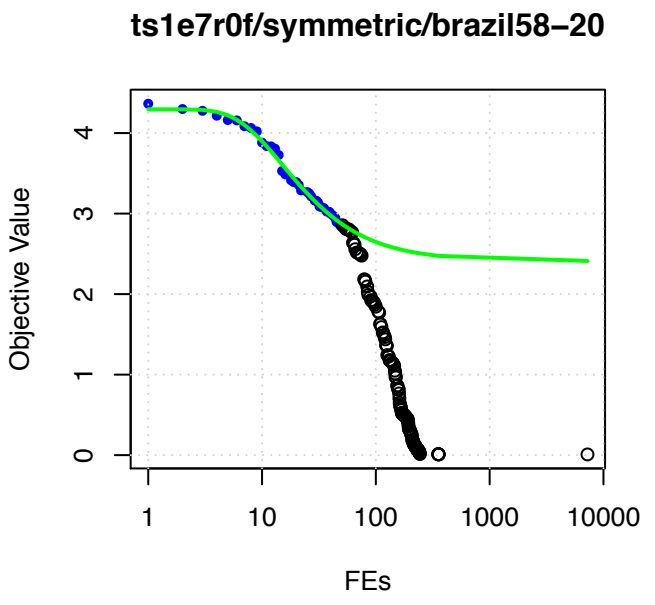
200
FEs


ts1e7r0f/symmetric/brazil58−20
Objective Value
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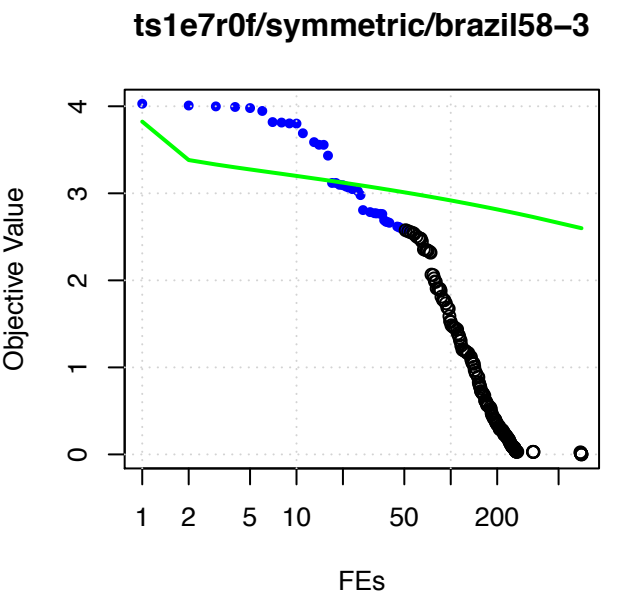
10000
FEs


ts1e7r0f/symmetric/brazil58−3
Objective Value
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2
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1
2
5
10
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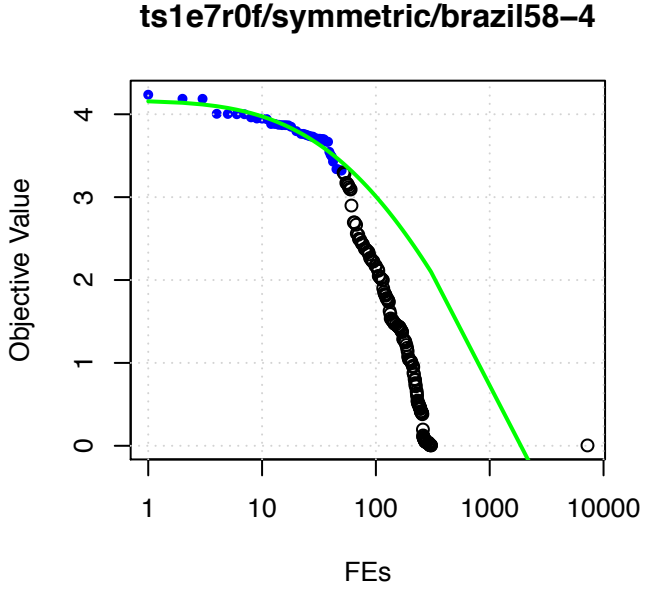
200
FEs


ts1e7r0f/symmetric/brazil58−4
Objective Value
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3
4
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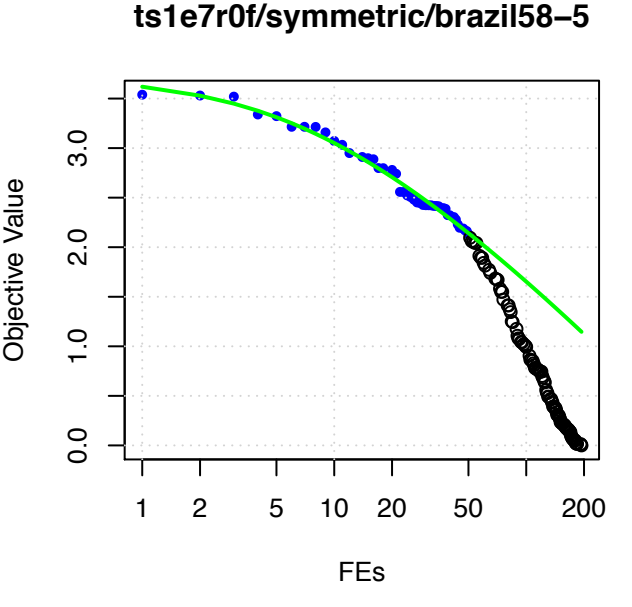
10000
FEs


ts1e7r0f/symmetric/brazil58−5
Objective Value
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3.0
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10
20
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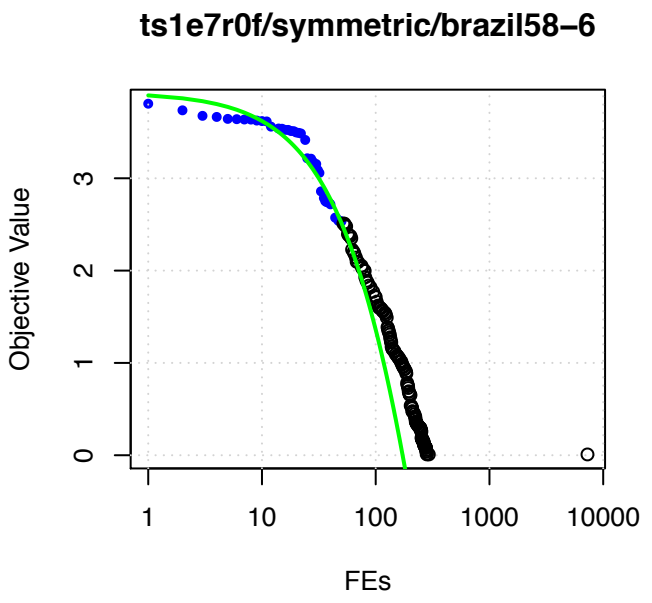
200
FEs


ts1e7r0f/symmetric/brazil58−6
Objective Value
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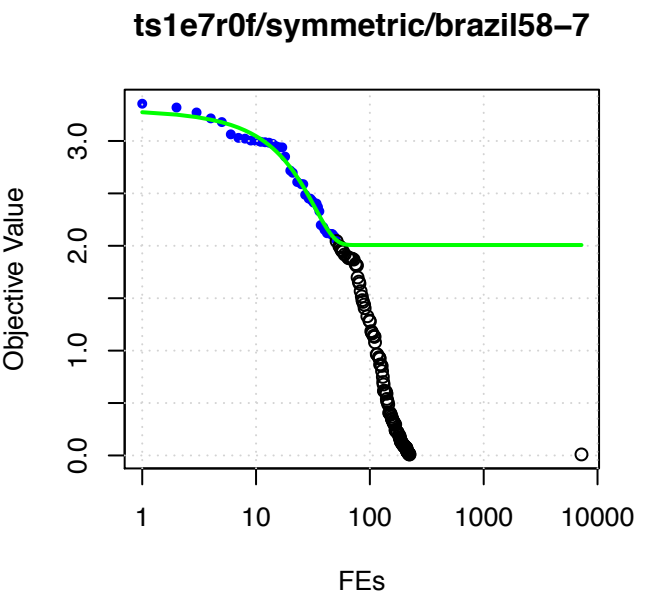
FEs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Objective Value
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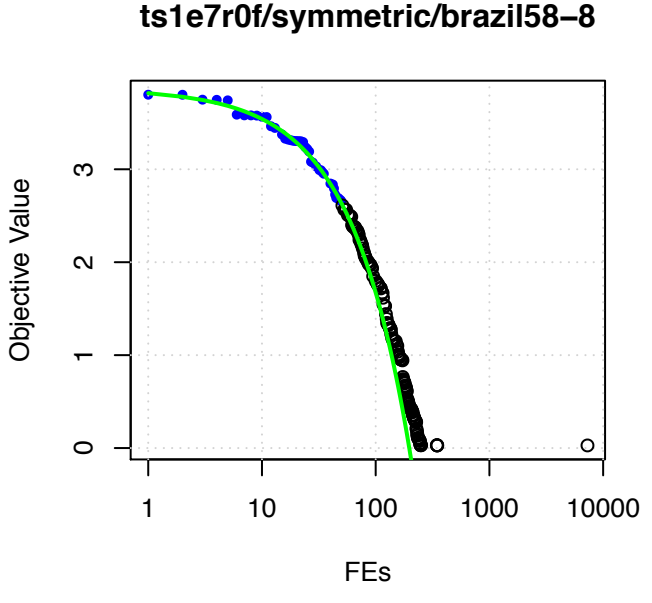
FEs


ts1e7r0f/symmetric/brazil58−8
Objective Value
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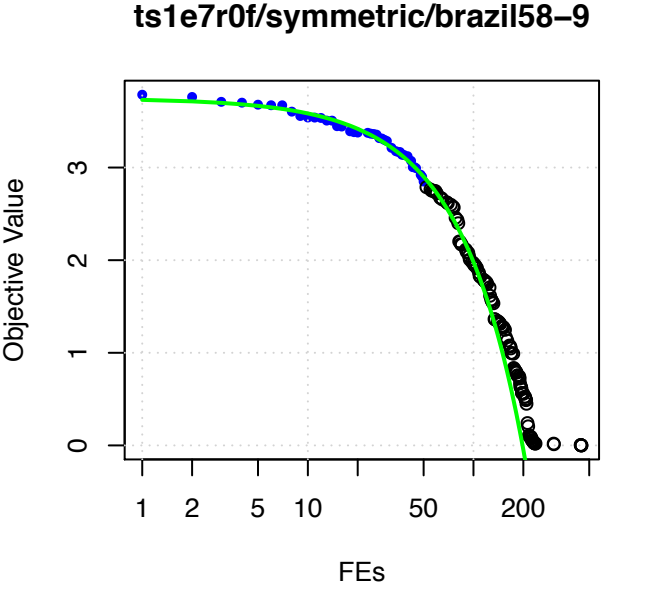
1000
10000
FEs


ts1e7r0f/symmetric/brazil58−9
Objective Value
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2
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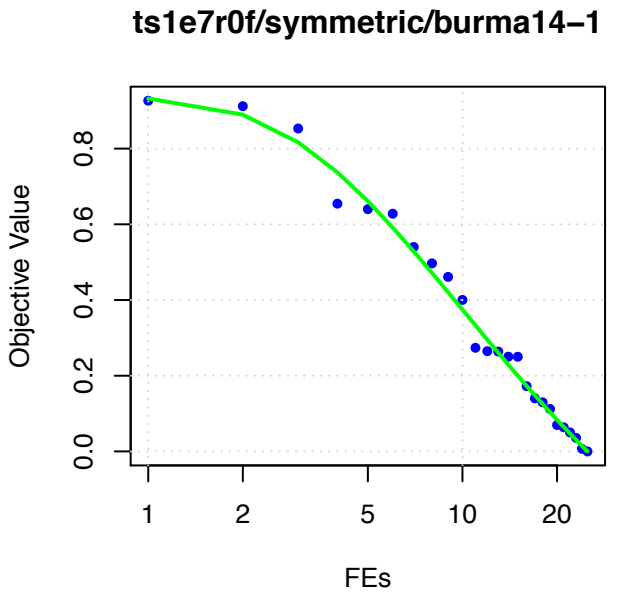
FEs


ts1e7r0f/symmetric/burma14−1
Objective Value
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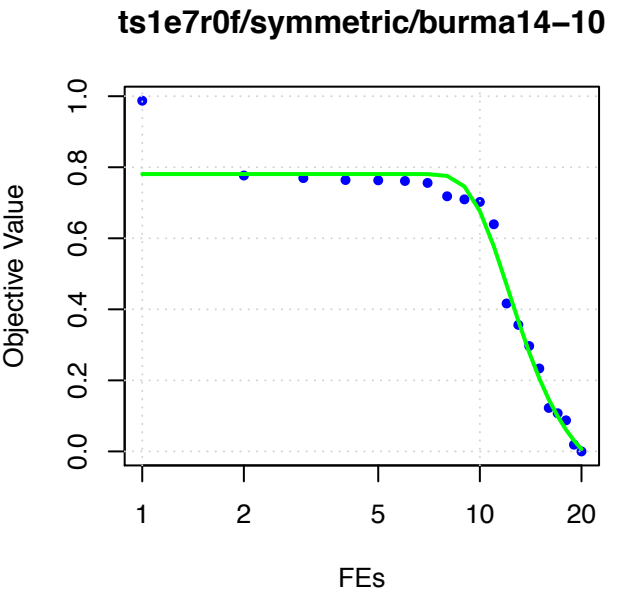
FEs


ts1e7r0f/symmetric/burma14−10
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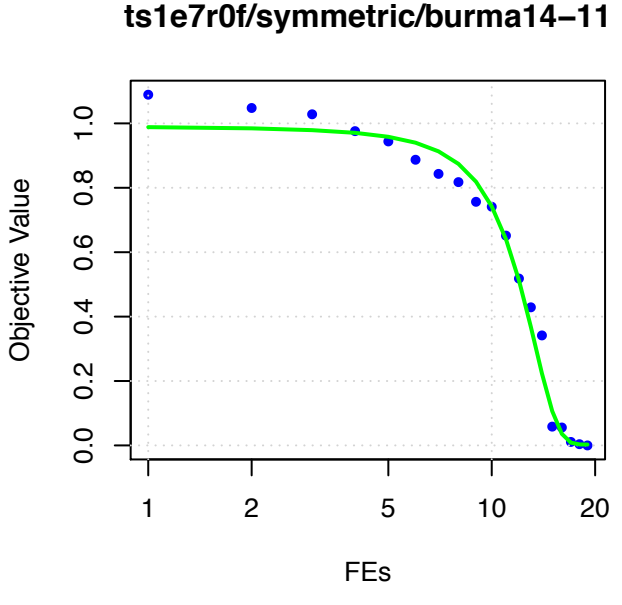
FEs


ts1e7r0f/symmetric/burma14−11
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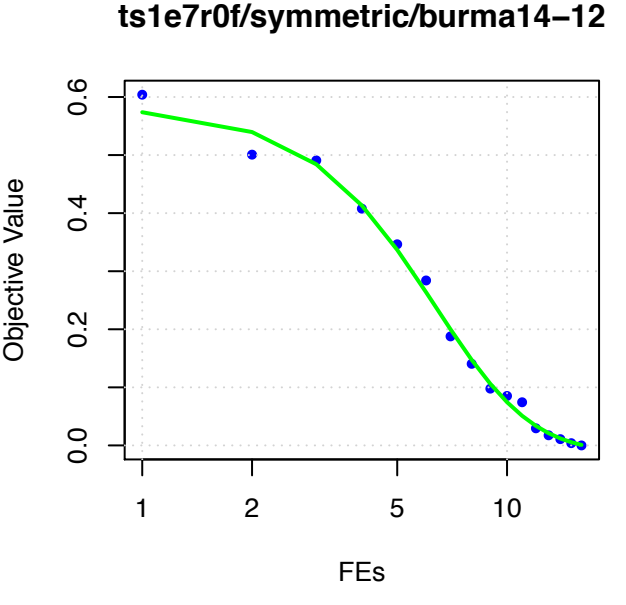
FEs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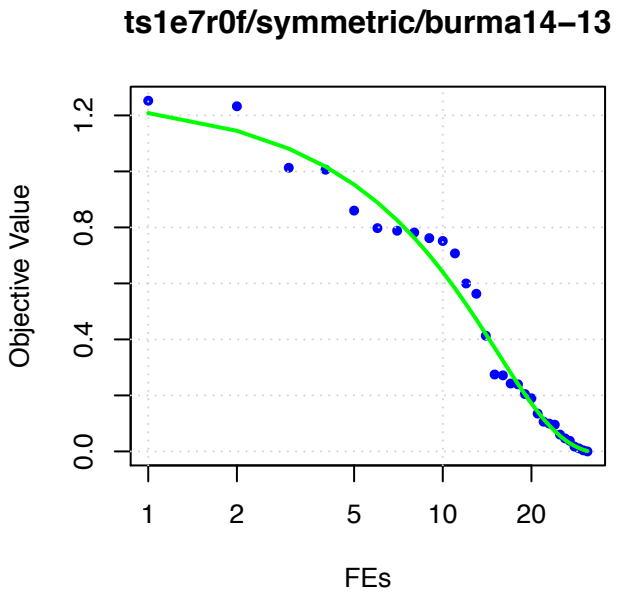
ts1e7r0f/symmetric/burma14−13
Objective Value
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0.8
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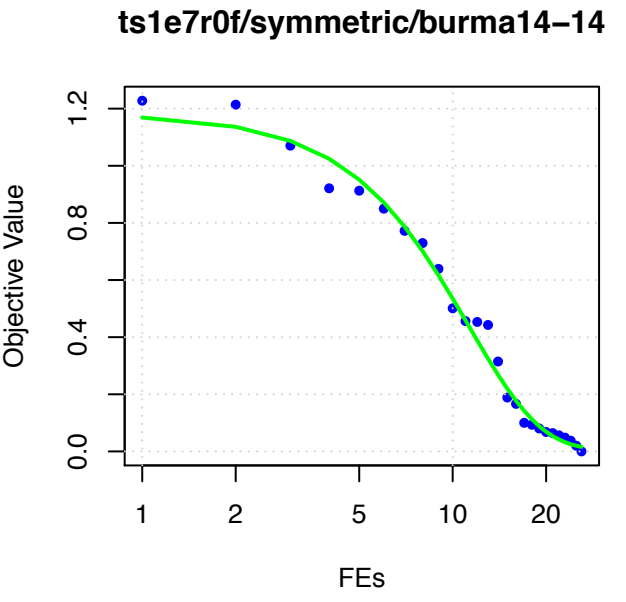
FEs


ts1e7r0f/symmetric/burma14−14
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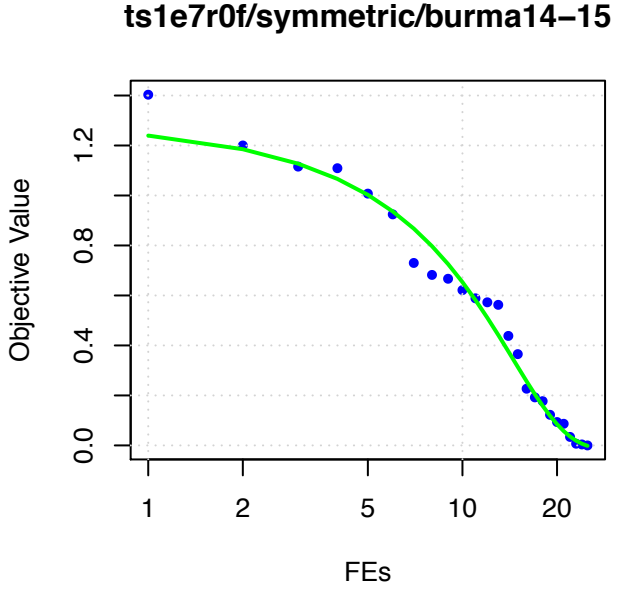
10
20
FEs


ts1e7r0f/symmetric/burma14−15
Objective Value
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10
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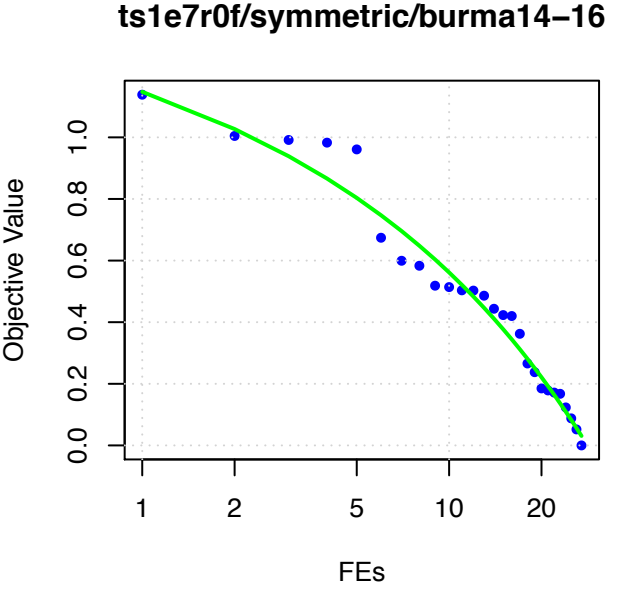
FEs


ts1e7r0f/symmetric/burma14−16
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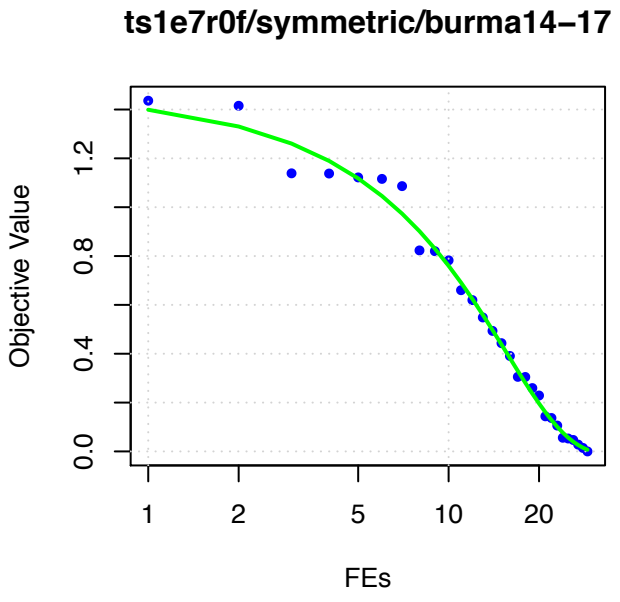
ts1e7r0f/symmetric/burma14−17
Objective Value
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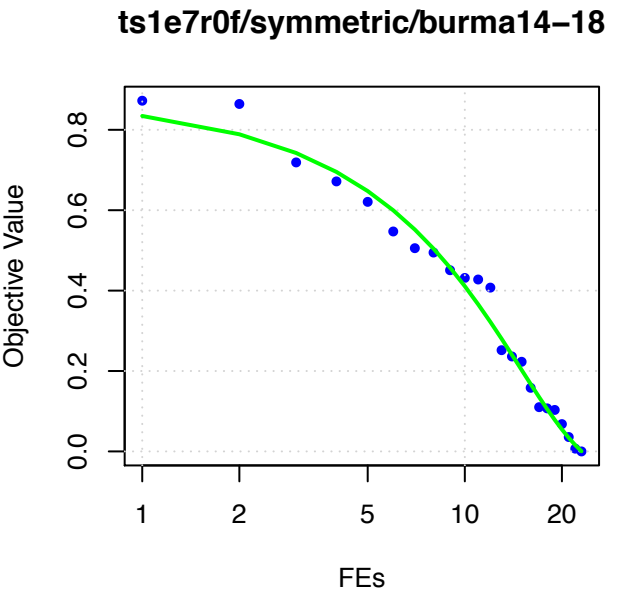
FEs


ts1e7r0f/symmetric/burma14−18
Objective Value
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5
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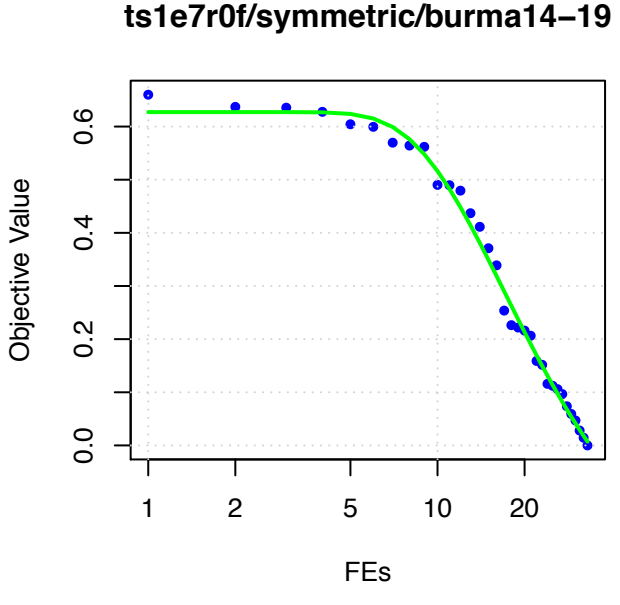
FEs


ts1e7r0f/symmetric/burma14−19
Objective Value
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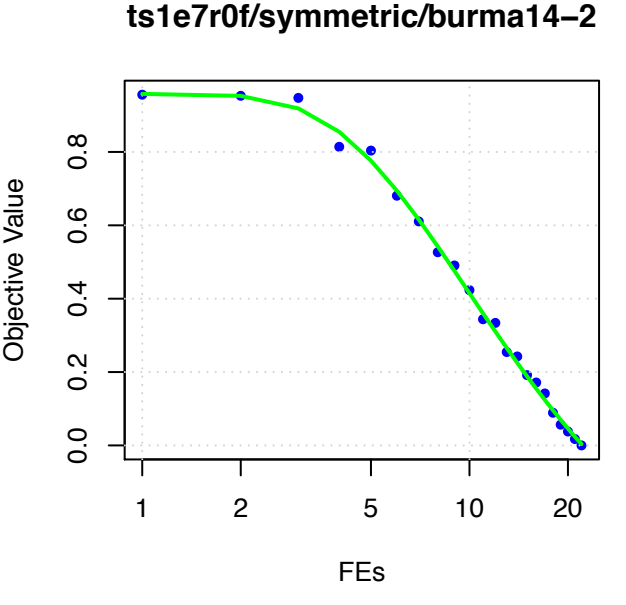
FEs


ts1e7r0f/symmetric/burma14−2
Objective Value
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0.6
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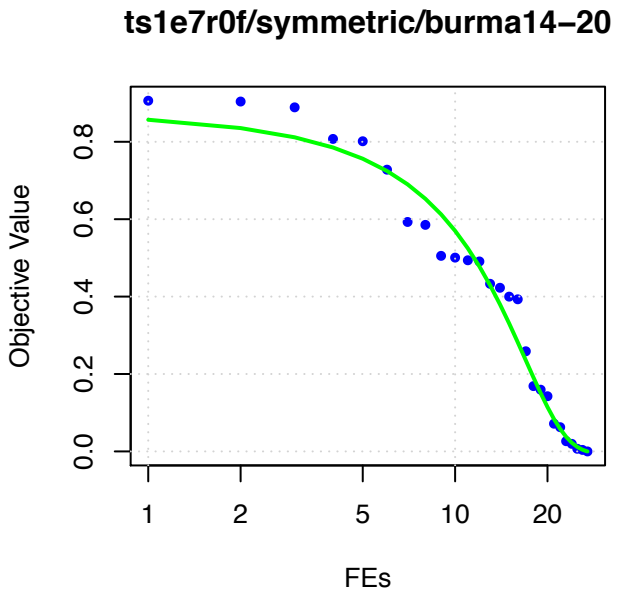
FEs


ts1e7r0f/symmetric/burma14−20
Objective Value
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0.6
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2
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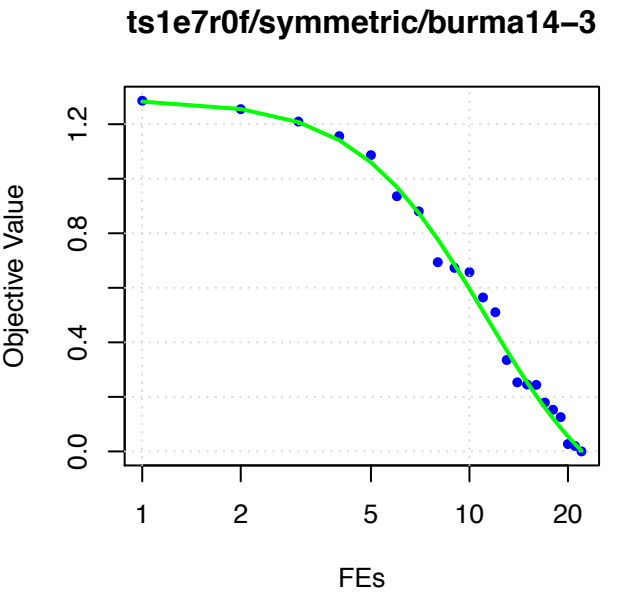
FEs


ts1e7r0f/symmetric/burma14−3
Objective Value
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0.8
1.2
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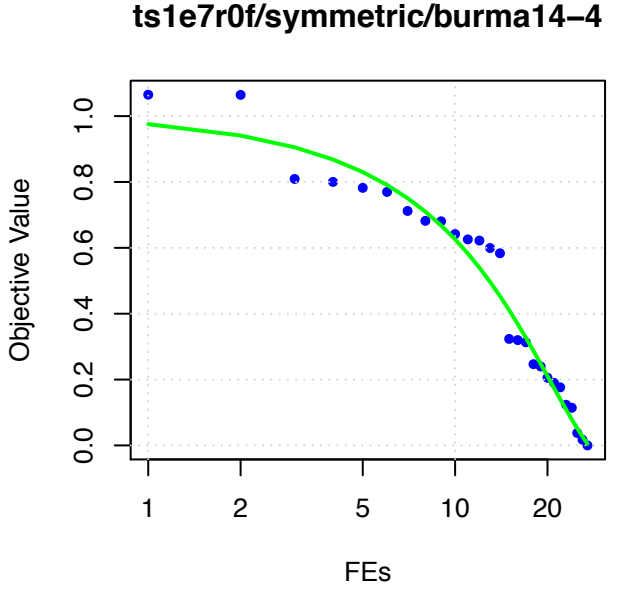
2
5
10
20
FEs


ts1e7r0f/symmetric/burma14−4
Objective Value
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0.6
0.8
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2
5
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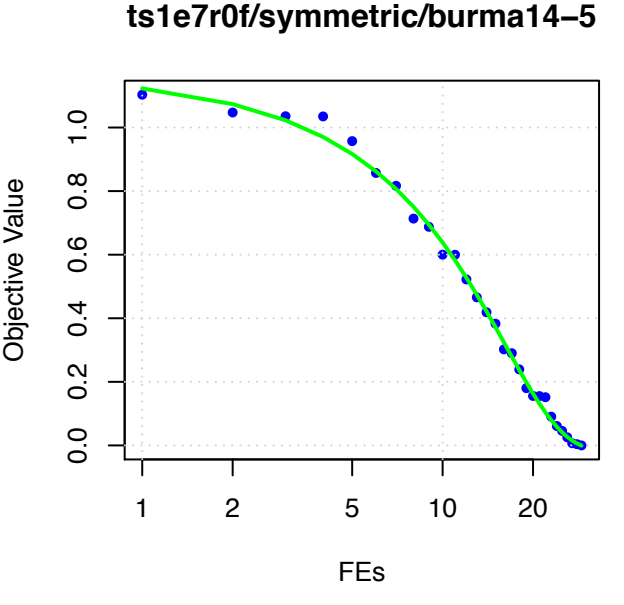
20
FEs


ts1e7r0f/symmetric/burma14−5
Objective Value
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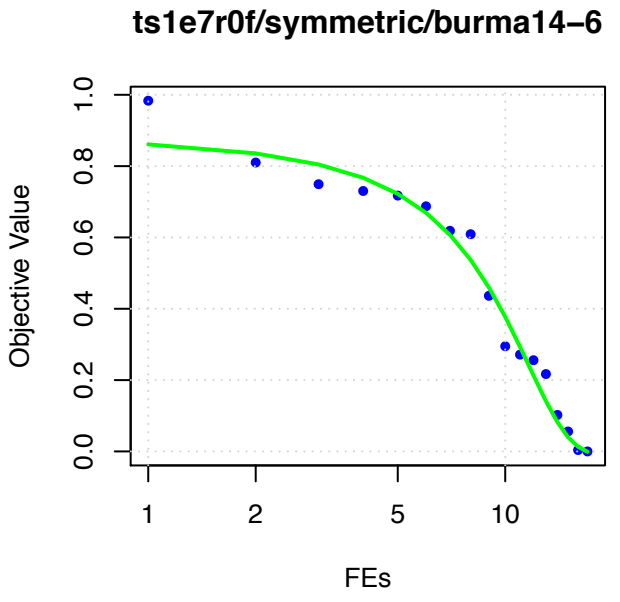
0.4
0.6
0.8
1.0
1
2
5
10
20
FEs


ts1e7r0f/symmetric/burma14−6
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0.6
0.8
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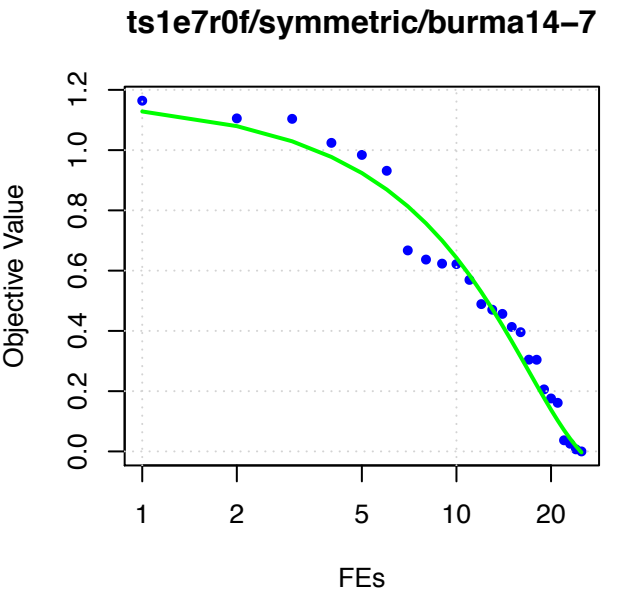
1
2
5
10
FEs


ts1e7r0f/symmetric/burma14−7
Objective Value
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0.6
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1.0
1.2
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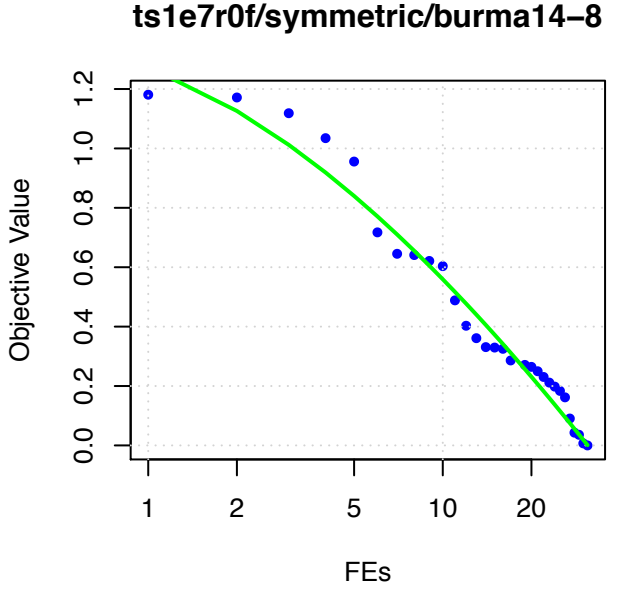
5
10
20
FEs


ts1e7r0f/symmetric/burma14−8
Objective Value
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0.6
0.8
1.0
1.2
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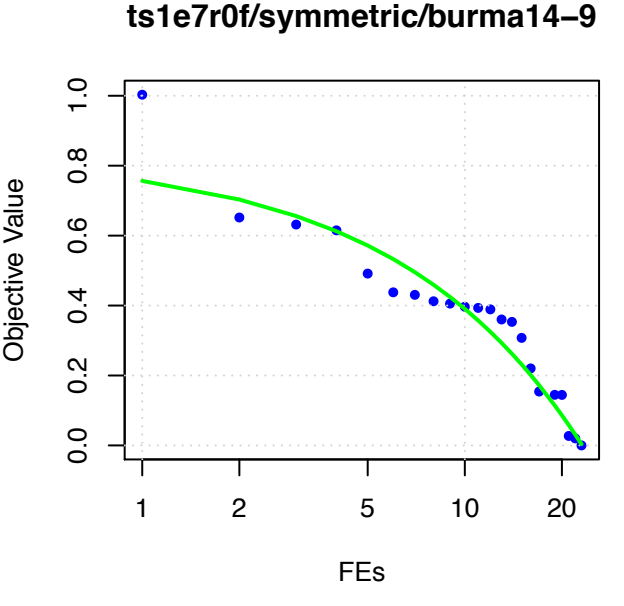
2
5
10
20
FEs


ts1e7r0f/symmetric/burma14−9
Objective Value
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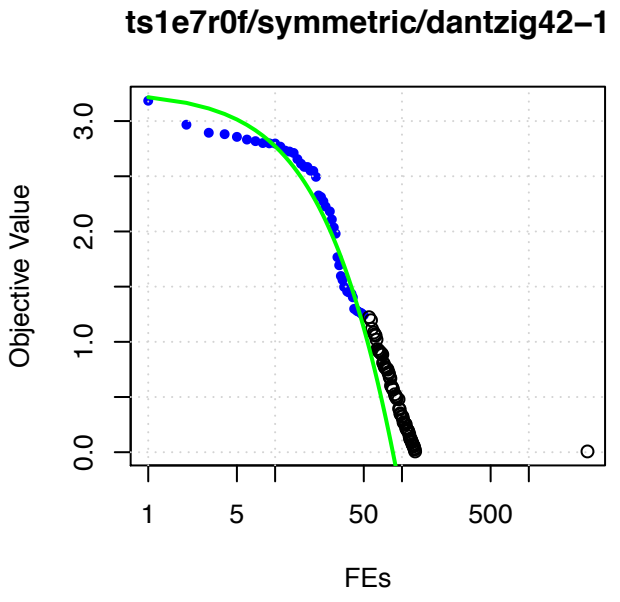
2
5
10
20
FEs


ts1e7r0f/symmetric/dantzig42−1
Objective Value
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1
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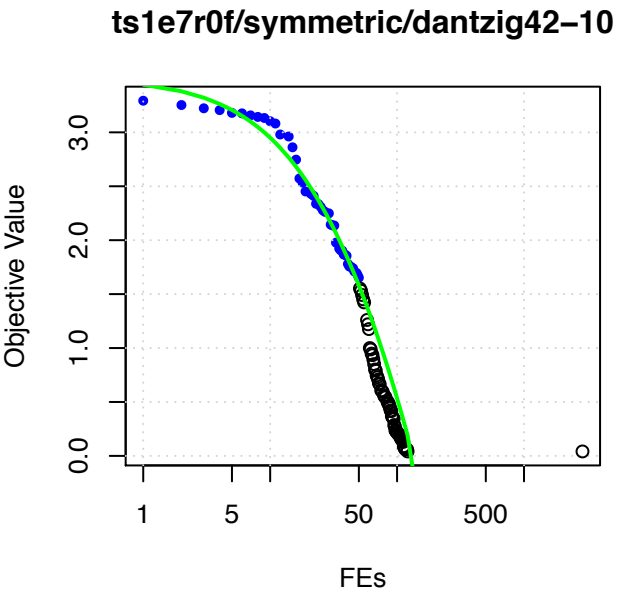
500
FEs


ts1e7r0f/symmetric/dantzig42−10
Objective Value
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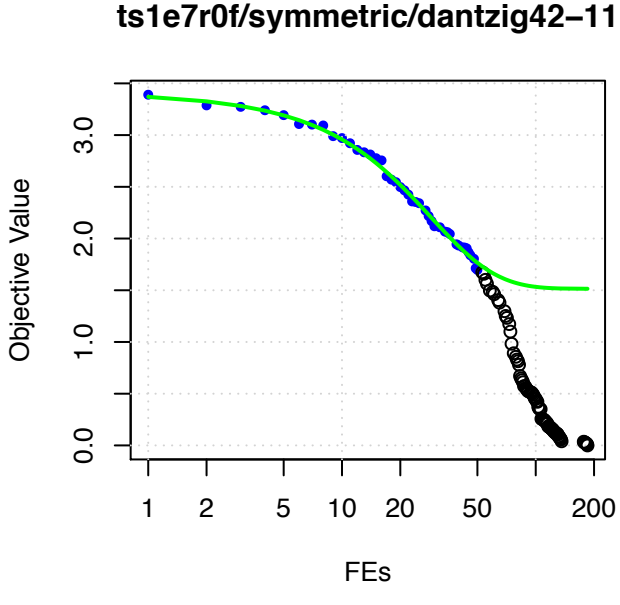
2.0
3.0
1
5
50
500
FEs


ts1e7r0f/symmetric/dantzig42−11
Objective Value
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10
20
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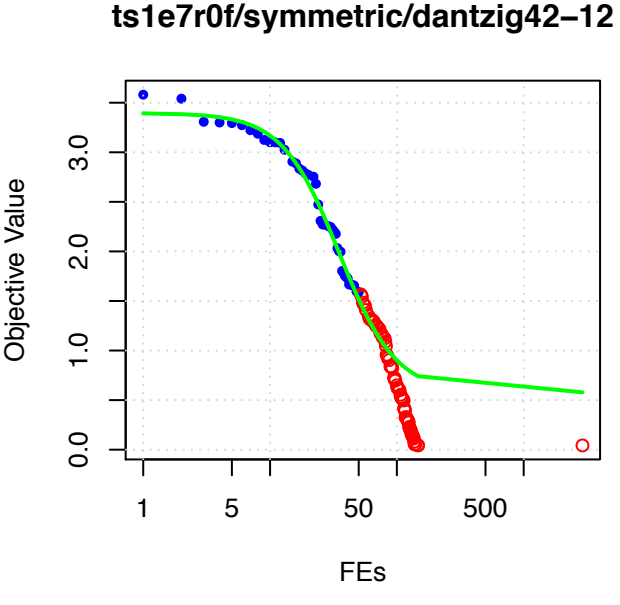
200
FEs


ts1e7r0f/symmetric/dantzig42−12
Objective Value
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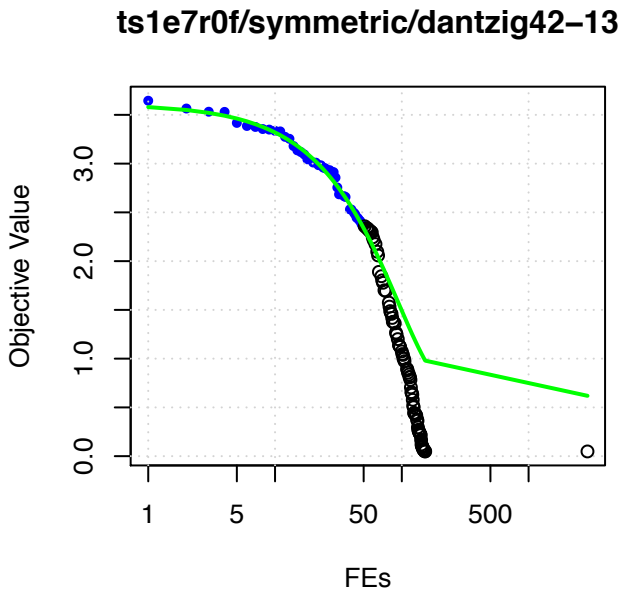
FEs


ts1e7r0f/symmetric/dantzig42−13
Objective Value
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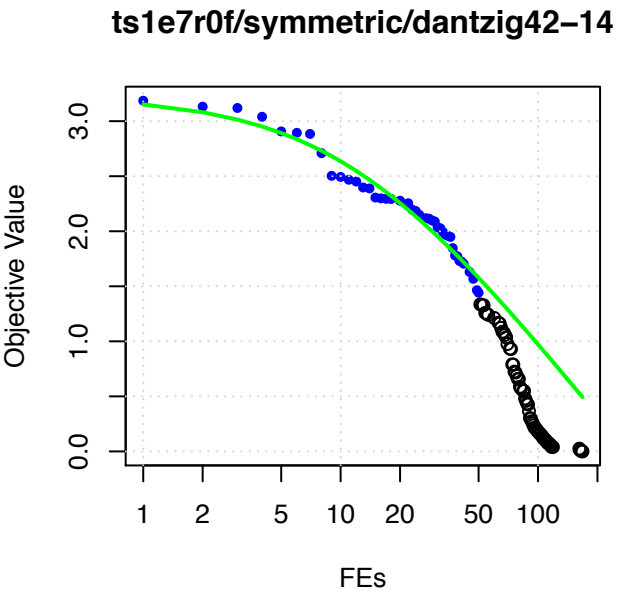
3.0
1
5
50
500
FEs


ts1e7r0f/symmetric/dantzig42−14
Objective Value
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2
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20
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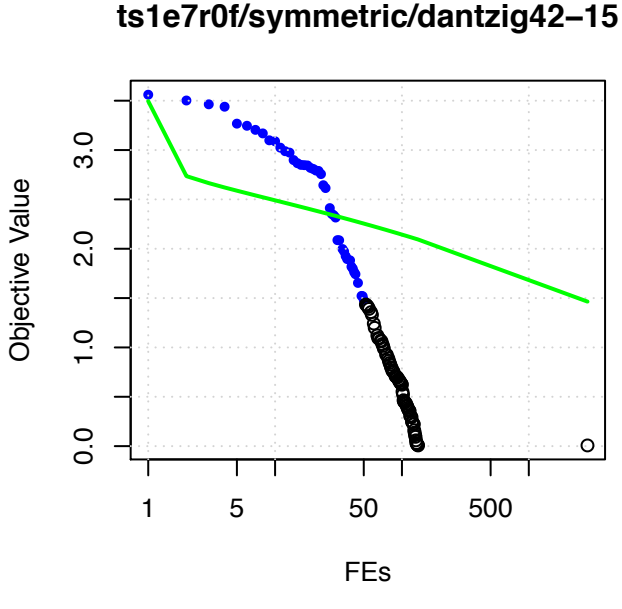
100
FEs


ts1e7r0f/symmetric/dantzig42−15
Objective Value
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3.0
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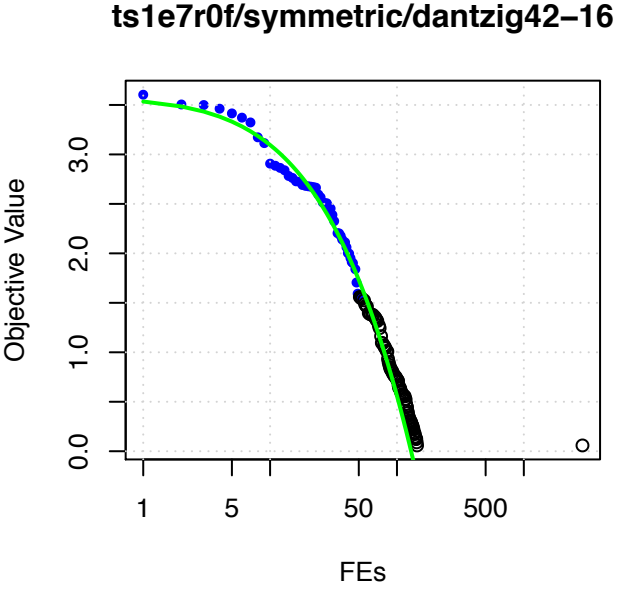
5
50
500
FEs


ts1e7r0f/symmetric/dantzig42−16
Objective Value
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1
5
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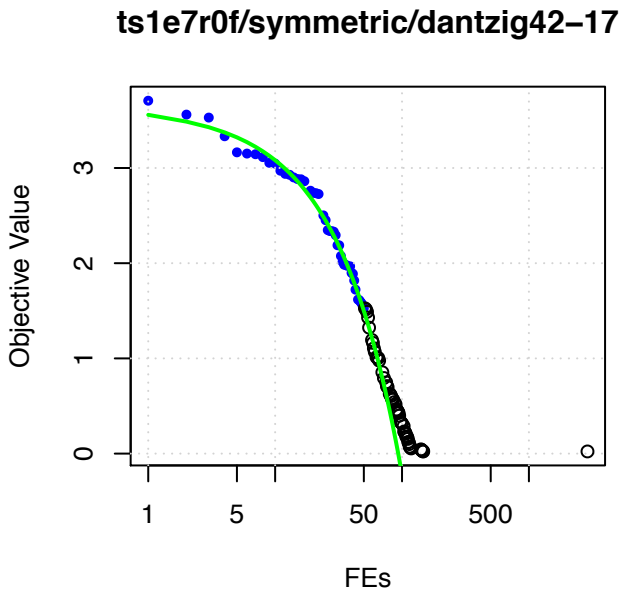
500
FEs


ts1e7r0f/symmetric/dantzig42−17
Objective Value
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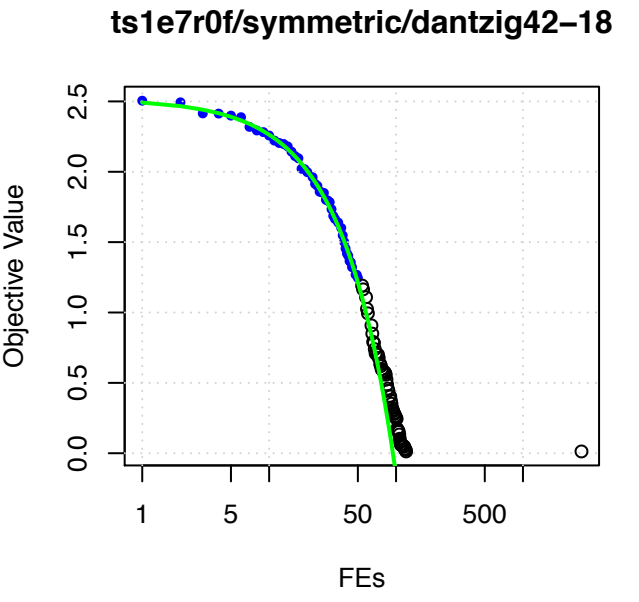
3
1
5
50
500
FEs


ts1e7r0f/symmetric/dantzig42−18
Objective Value
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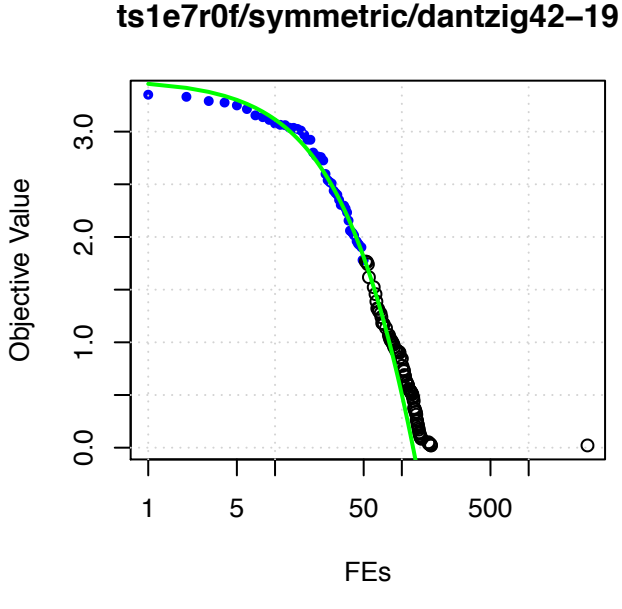
1.5
2.0
2.5
1
5
50
500
FEs


ts1e7r0f/symmetric/dantzig42−19
Objective Value
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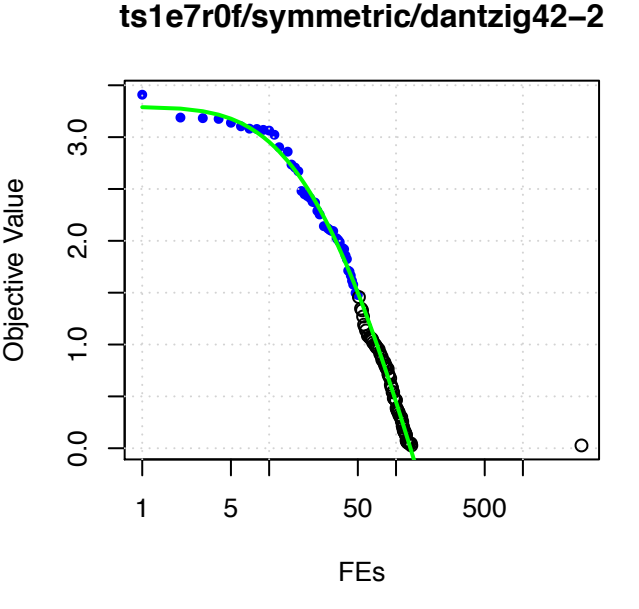
2.0
3.0
1
5
50
500
FEs


ts1e7r0f/symmetric/dantzig42−2
Objective Value
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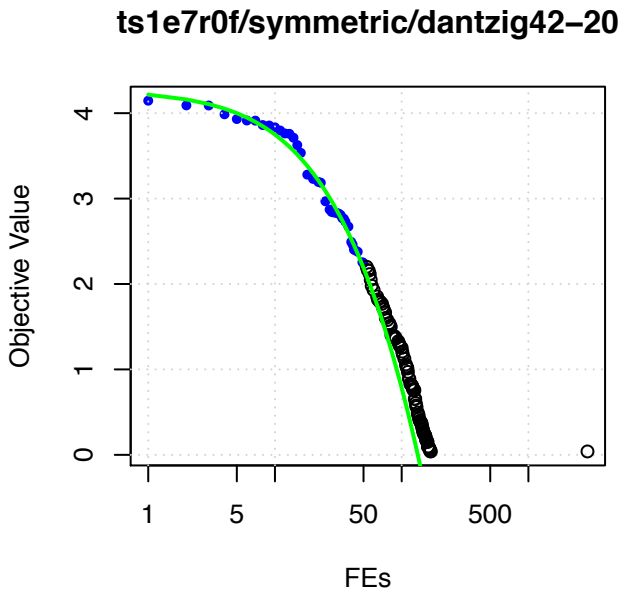
2.0
3.0
1
5
50
500
FEs


ts1e7r0f/symmetric/dantzig42−20
Objective Value
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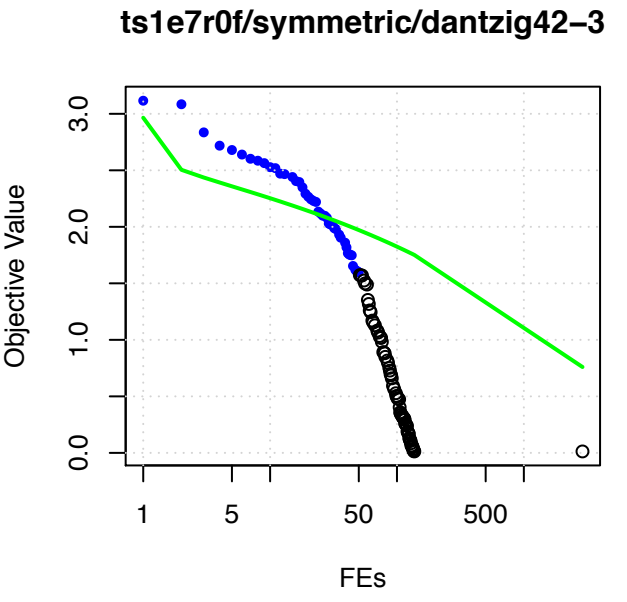
3
4
1
5
50
500
FEs


ts1e7r0f/symmetric/dantzig42−3
Objective Value
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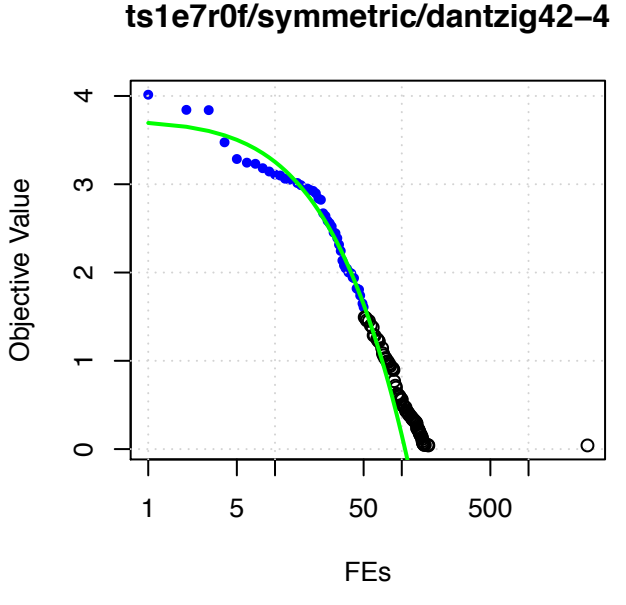
1.0
2.0
3.0
1
5
50
500
FEs


ts1e7r0f/symmetric/dantzig42−4
Objective Value
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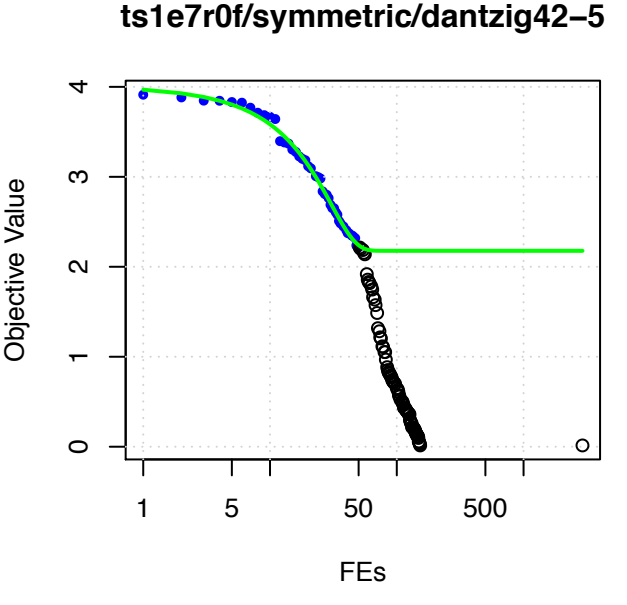
2
3
4
1
5
50
500
FEs


ts1e7r0f/symmetric/dantzig42−5
Objective Value
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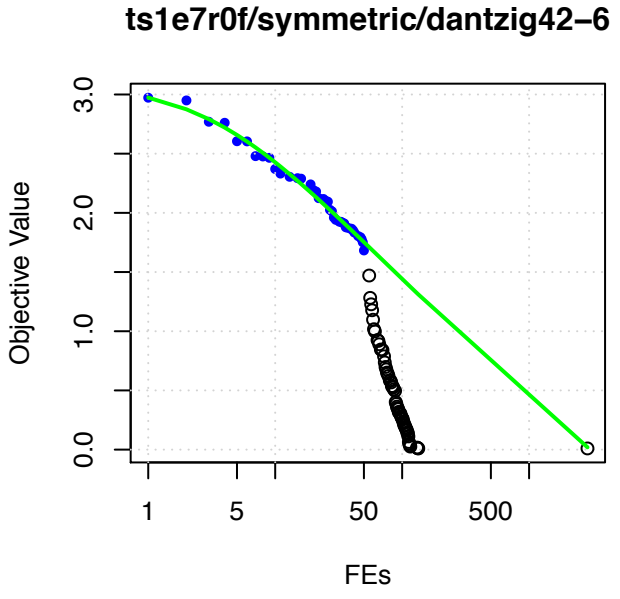
3
4
1
5
50
500
FEs


ts1e7r0f/symmetric/dantzig42−6
Objective Value
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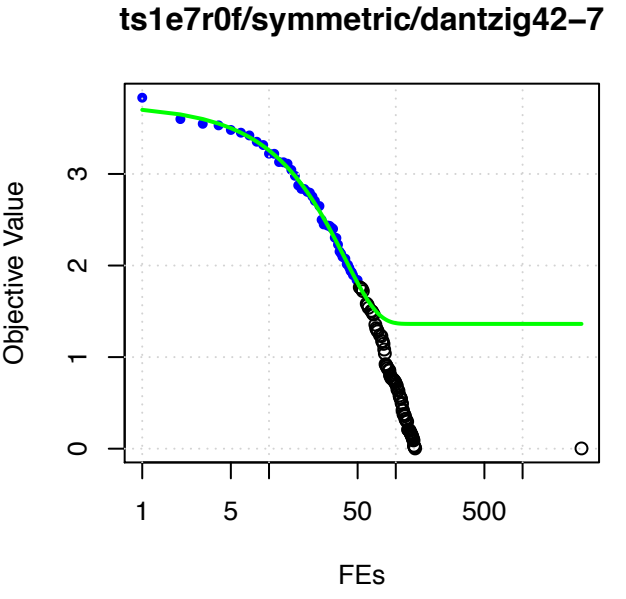
500
FEs


ts1e7r0f/symmetric/dantzig42−7
Objective Value
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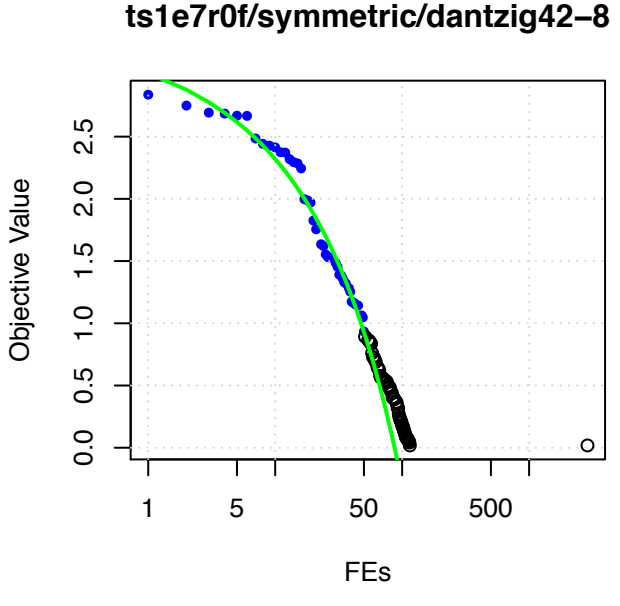
FEs


ts1e7r0f/symmetric/dantzig42−8
Objective Value
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1.5
2.0
2.5
1
5
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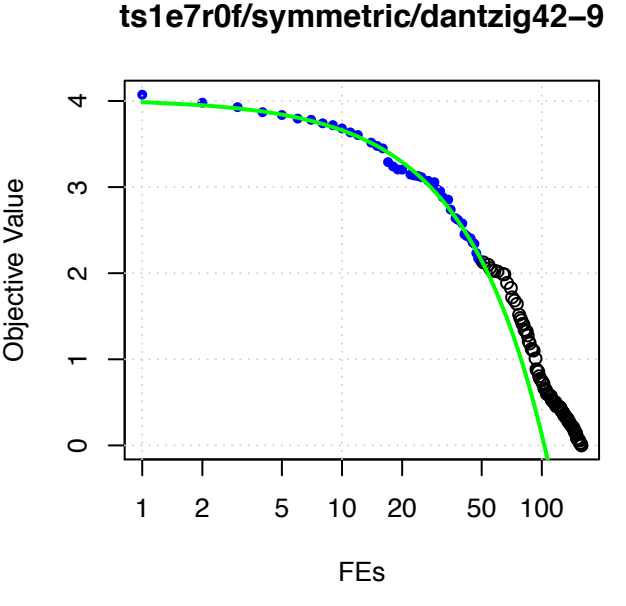
500
FEs


ts1e7r0f/symmetric/dantzig42−9
Objective Value
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2
5
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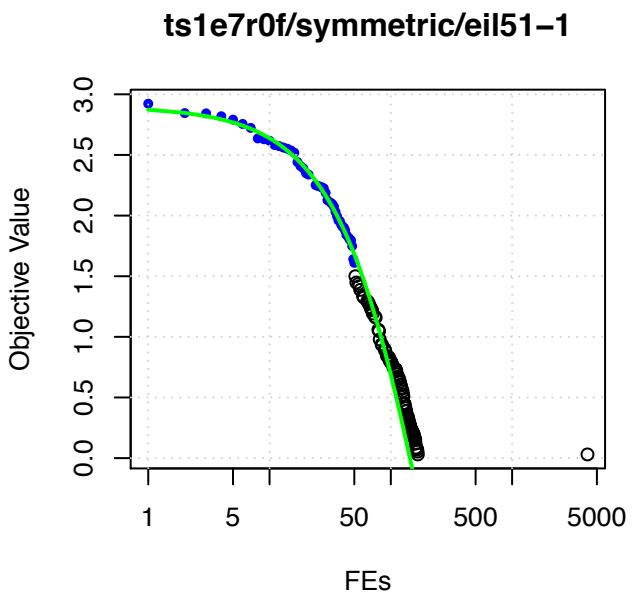
20
50
100
FEs


ts1e7r0f/symmetric/eil51−1
Objective Value
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2.5
3.0
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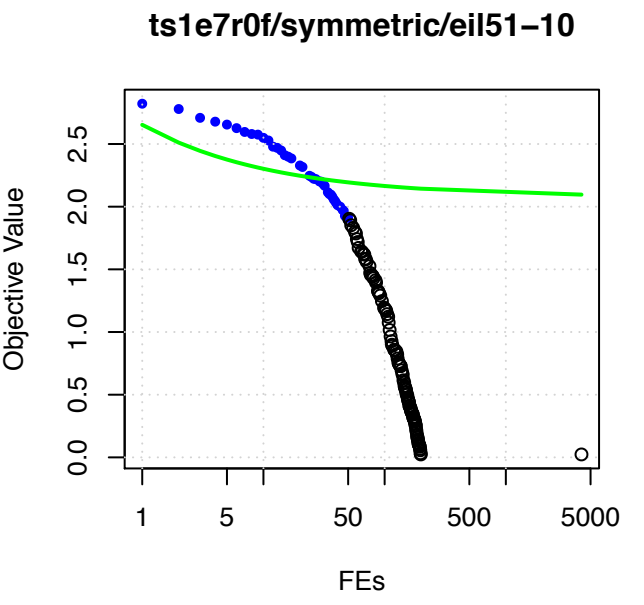
FEs


ts1e7r0f/symmetric/eil51−10
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1
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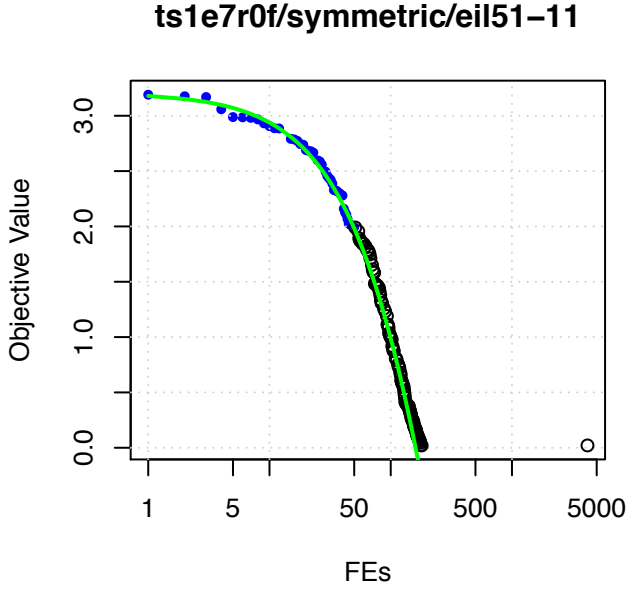
5000
FEs


ts1e7r0f/symmetric/eil51−11
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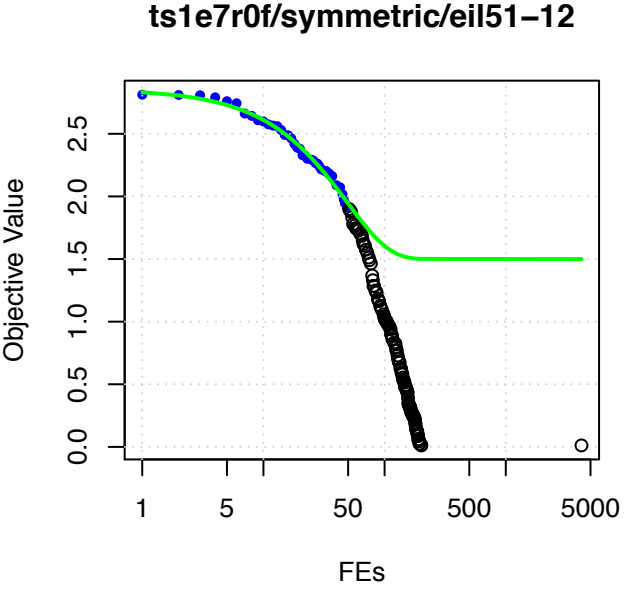
FEs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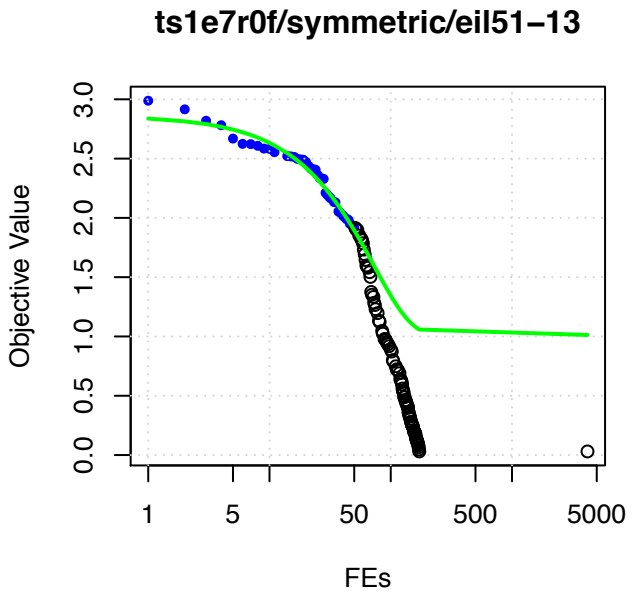
FEs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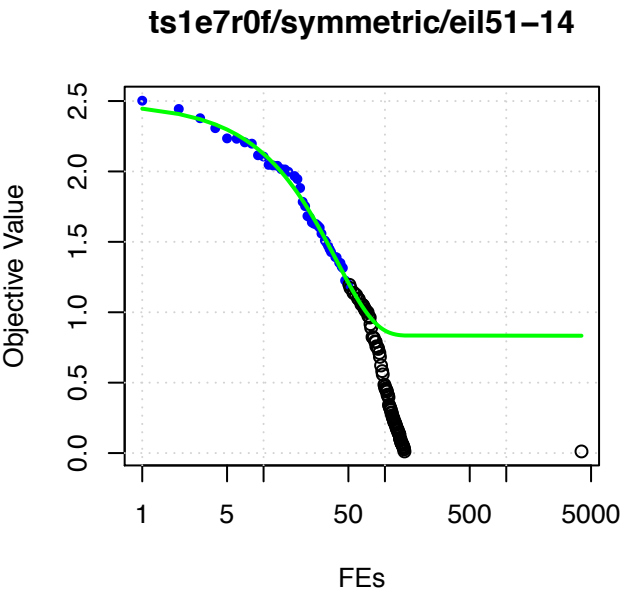
FEs


ts1e7r0f/symmetric/eil51−14
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1
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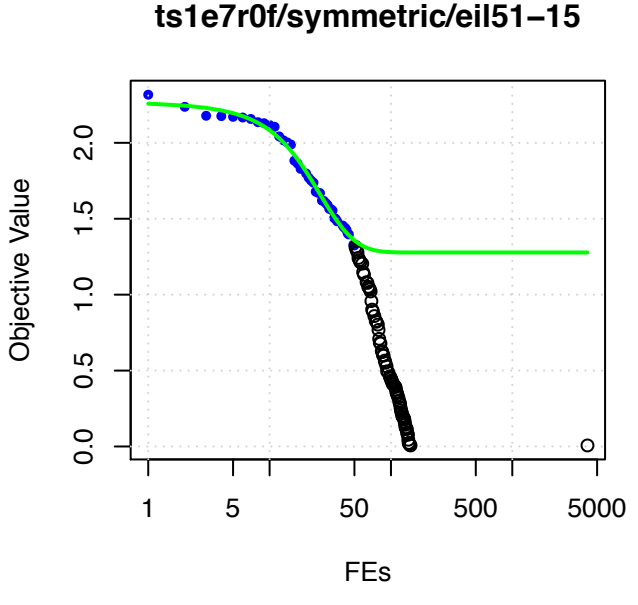
500
5000
FEs


ts1e7r0f/symmetric/eil51−15
Objective Value
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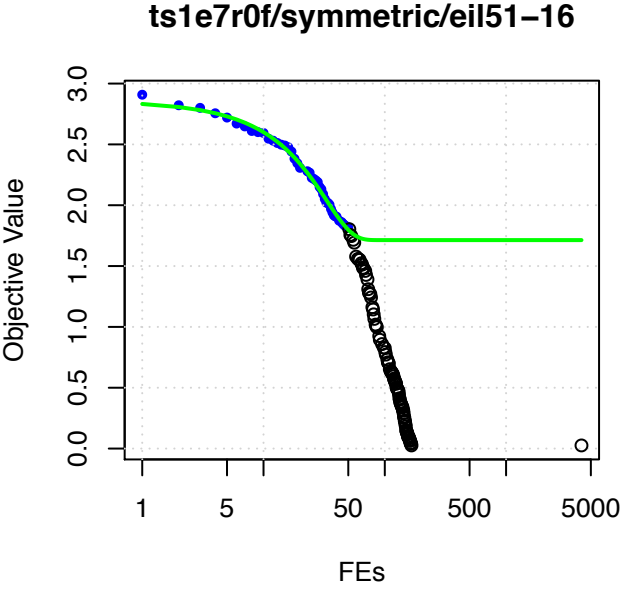
FEs


ts1e7r0f/symmetric/eil51−16
Objective Value
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1.5
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2.5
3.0
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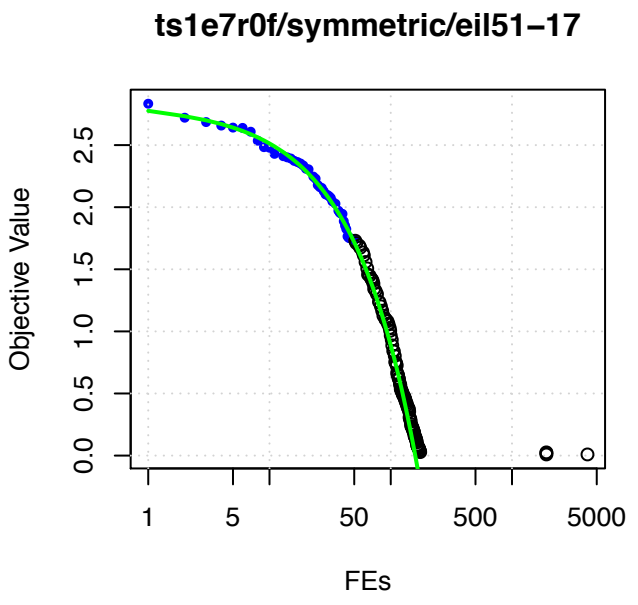
500
5000
FEs


ts1e7r0f/symmetric/eil51−17
Objective Value
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1.5
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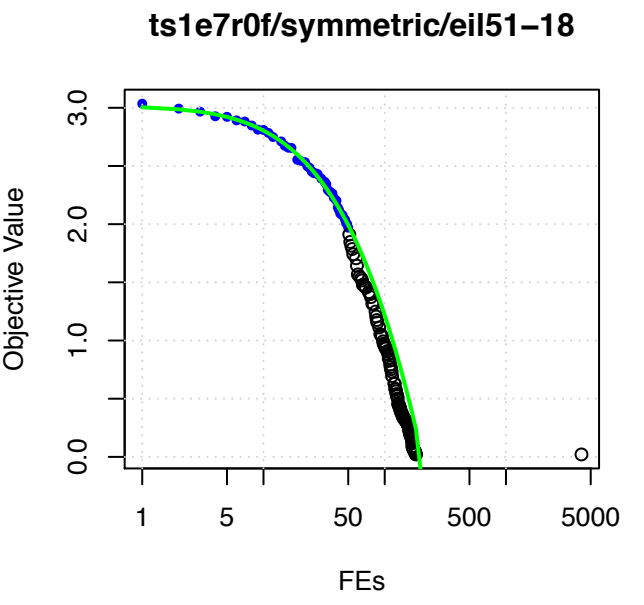
2.5
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/eil51−18
Objective Value
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3.0
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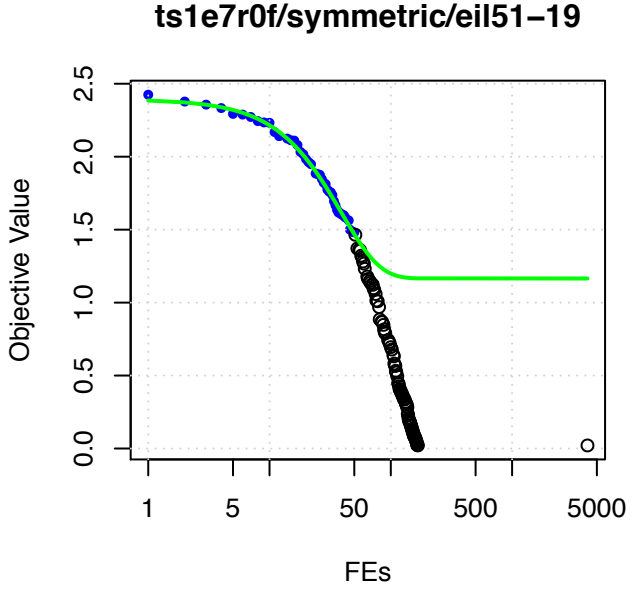
500
5000
FEs


ts1e7r0f/symmetric/eil51−19
Objective Value
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1.5
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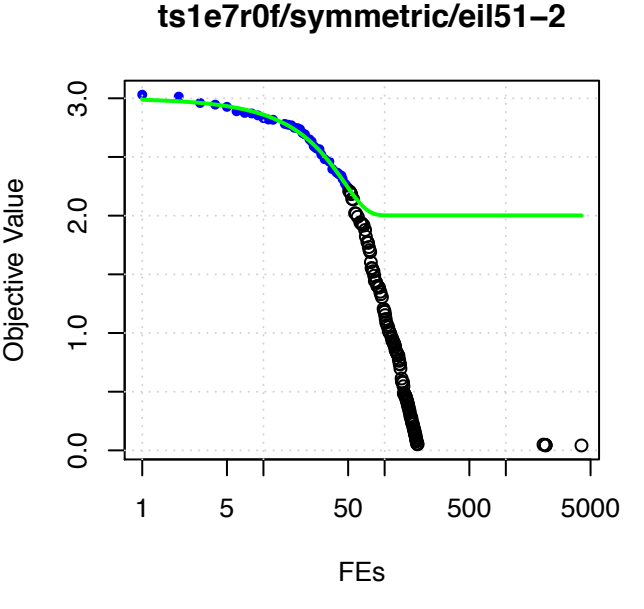
2.5
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/eil51−2
Objective Value
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2.0
3.0
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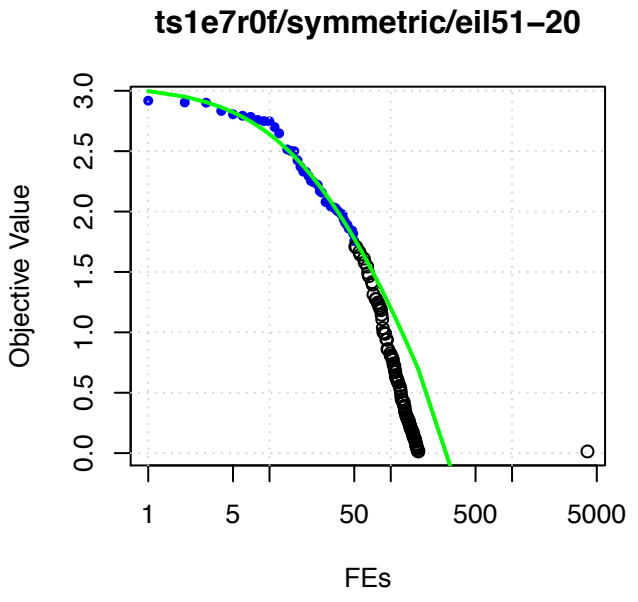
50
500
5000
FEs


ts1e7r0f/symmetric/eil51−20
Objective Value
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1.5
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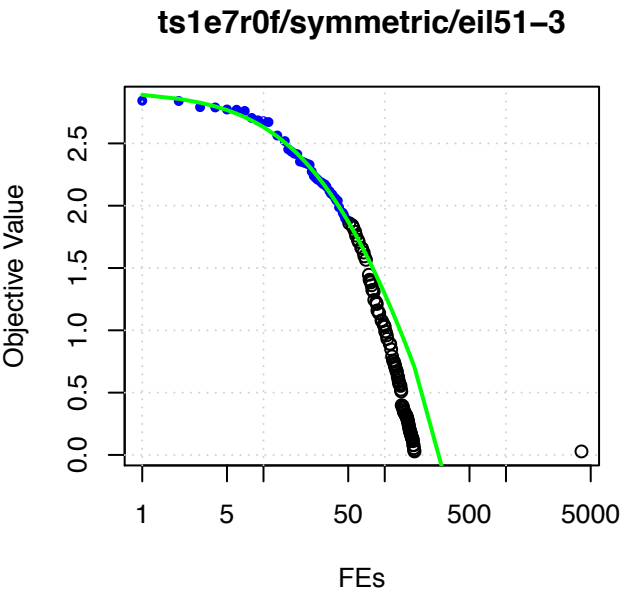
2.5
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/eil51−3
Objective Value
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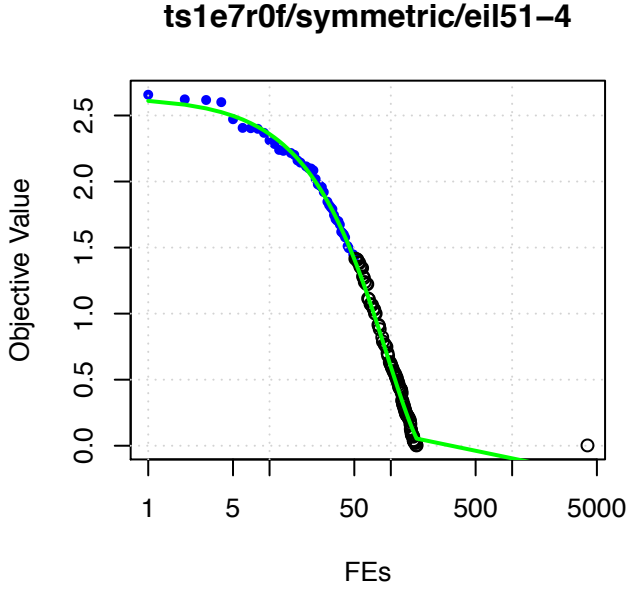
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/eil51−4
Objective Value
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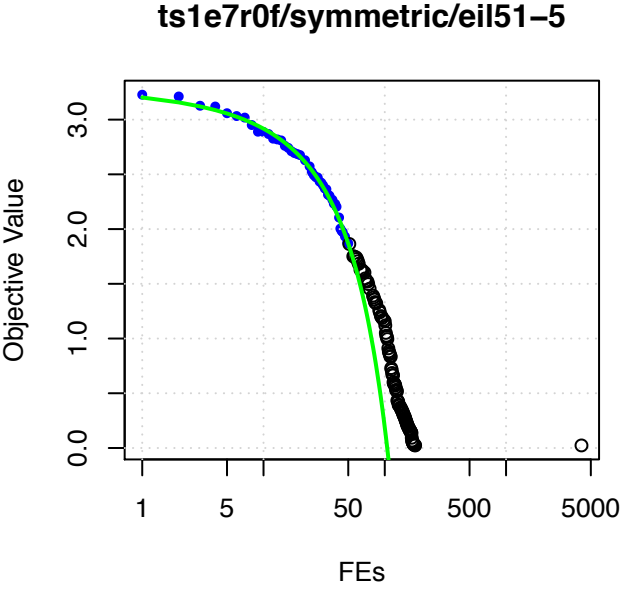
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/eil51−5
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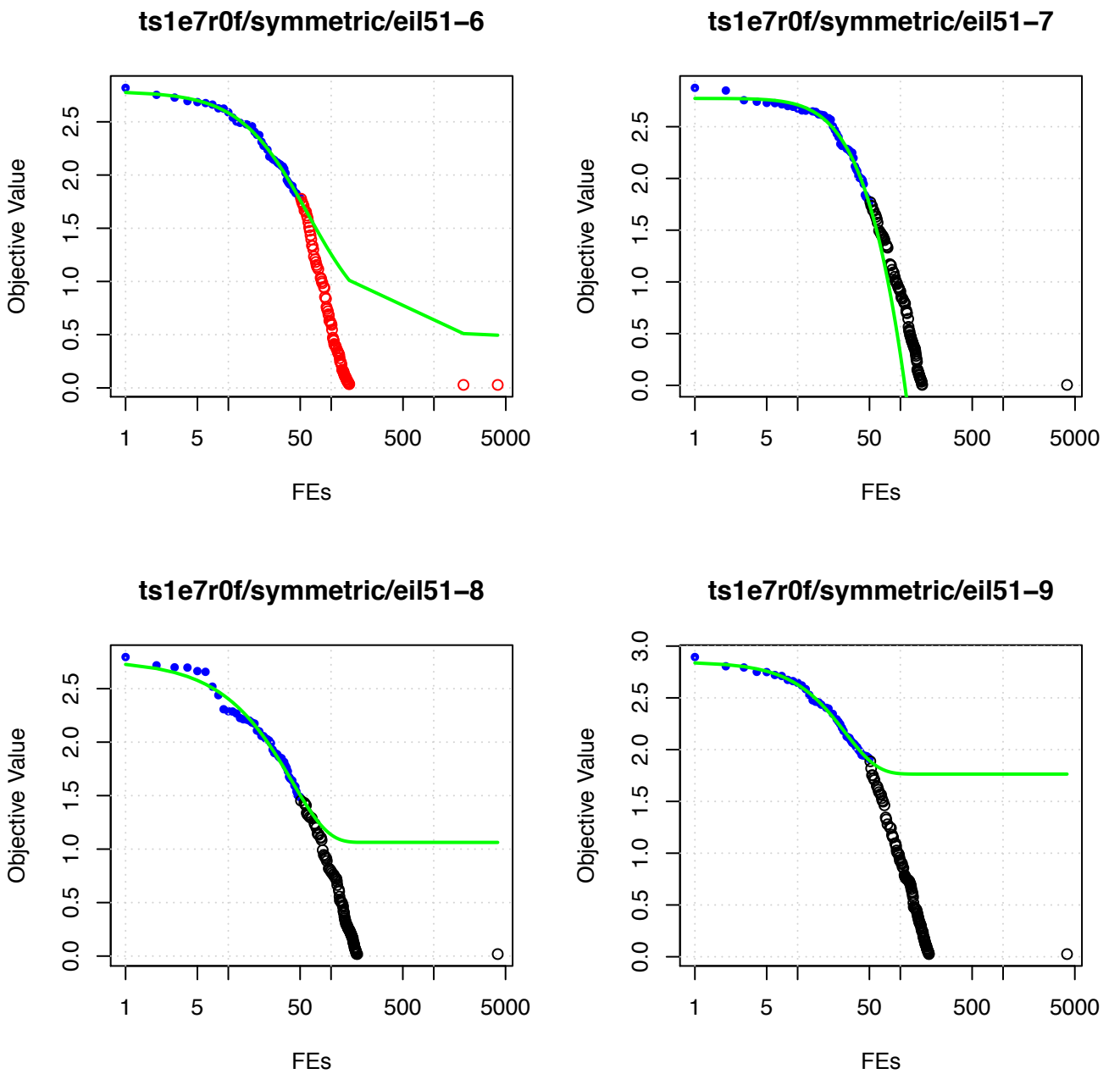
FEs


ts1e7r0f/symmetric/eil51−6
ts1e7r0f/symmetric/eil51−7
ts1e7r0f/symmetric/eil51−8
ts1e7r0f/symmetric/eil51−9
Objective Value
FEs
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1.5
2.0
2.5
3.0
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5
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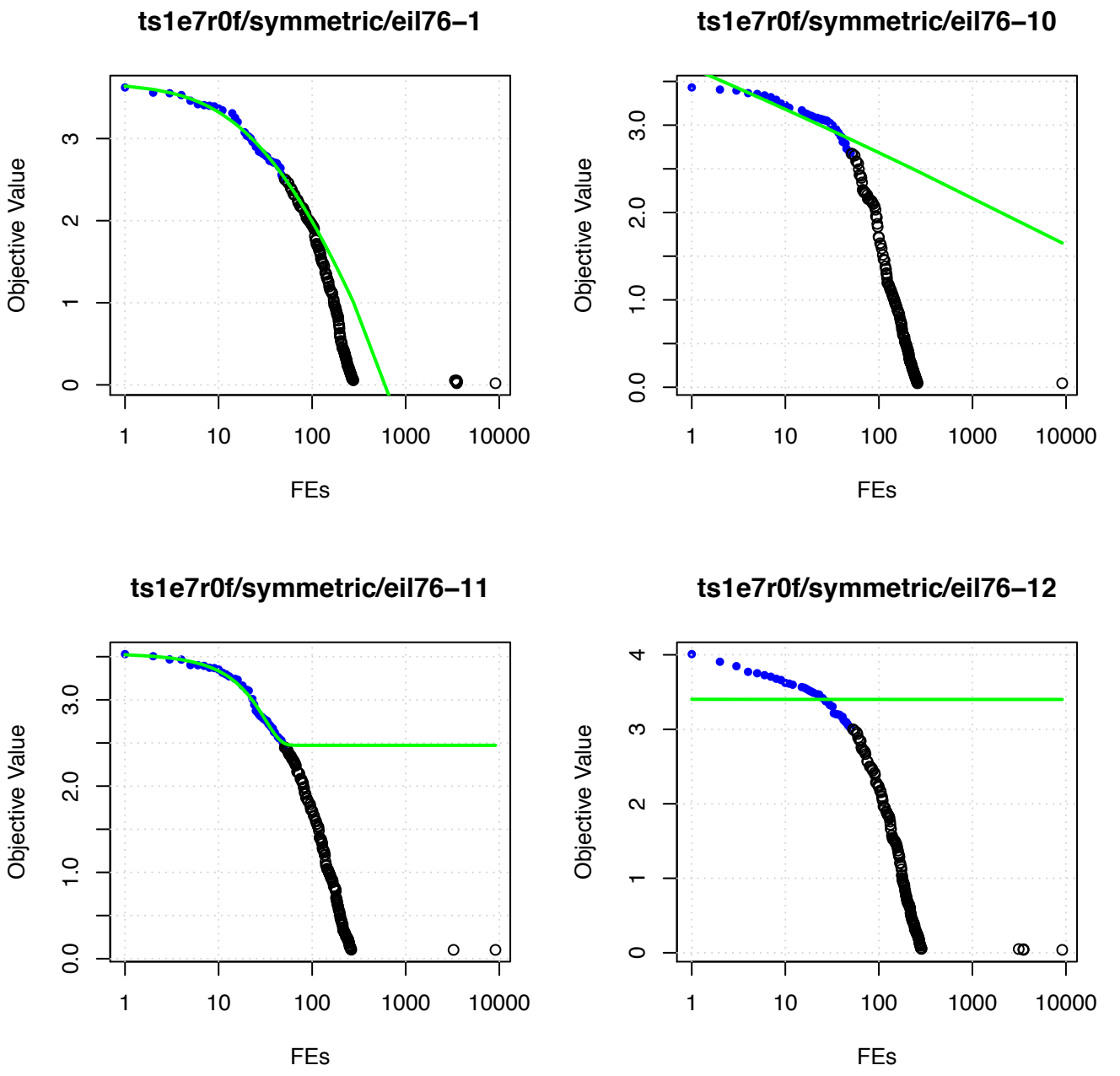
500
5000


ts1e7r0f/symmetric/eil76−1
ts1e7r0f/symmetric/eil76−10
ts1e7r0f/symmetric/eil76−11
ts1e7r0f/symmetric/eil76−12
Objective Value
FEs
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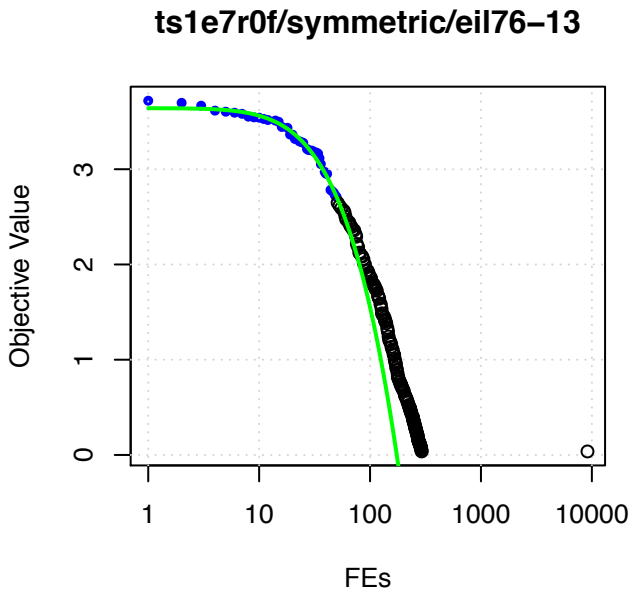
10
100
1000
10000
0
1
2
3
0.0
1.0
2.0
3.0
4


ts1e7r0f/symmetric/eil76−13
Objective Value
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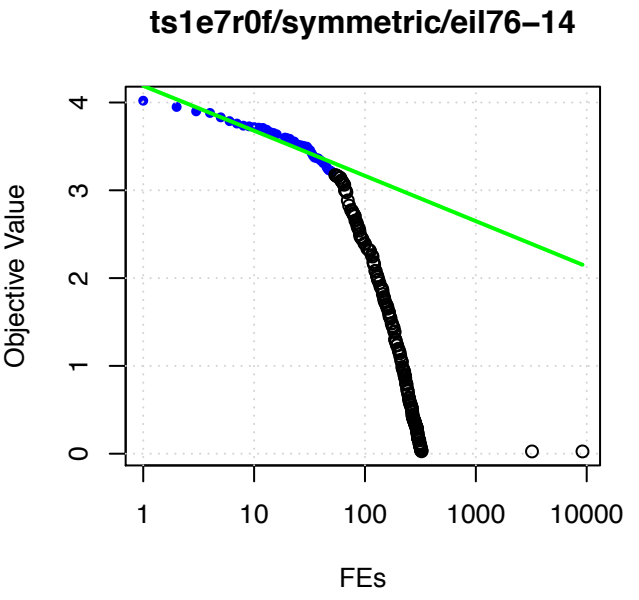
10000
FEs


ts1e7r0f/symmetric/eil76−14
Objective Value
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3
4
1
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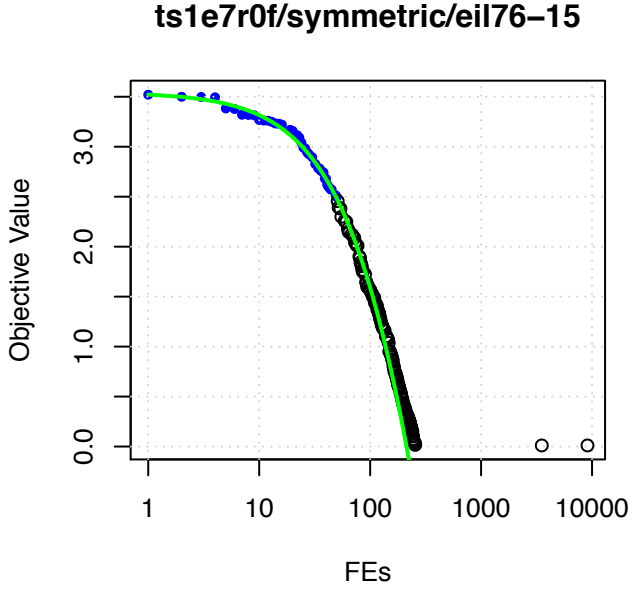
100
1000
10000
FEs


ts1e7r0f/symmetric/eil76−15
Objective Value
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3.0
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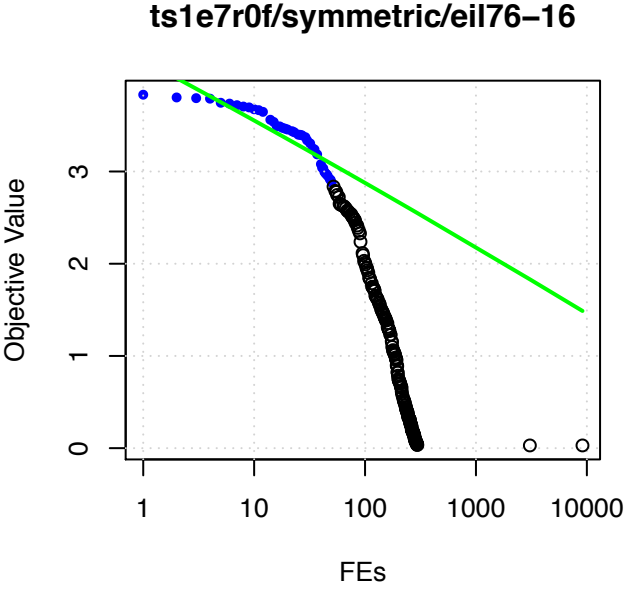
1000
10000
FEs


ts1e7r0f/symmetric/eil76−16
Objective Value
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2
3
1
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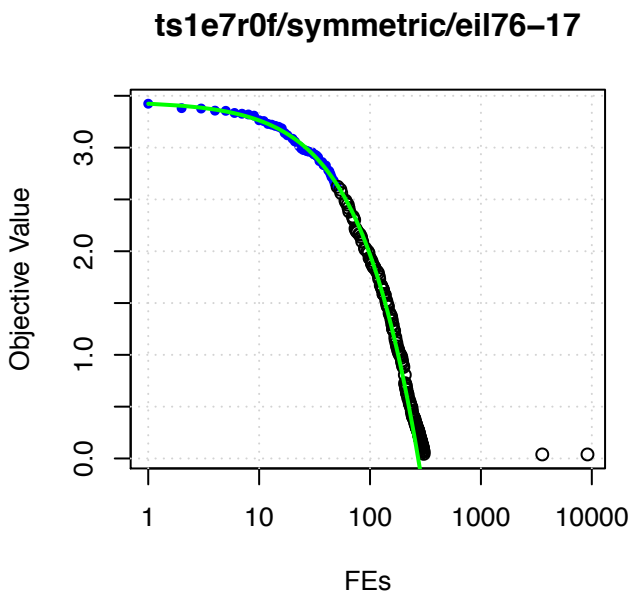
100
1000
10000
FEs


ts1e7r0f/symmetric/eil76−17
Objective Value
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1.0
2.0
3.0
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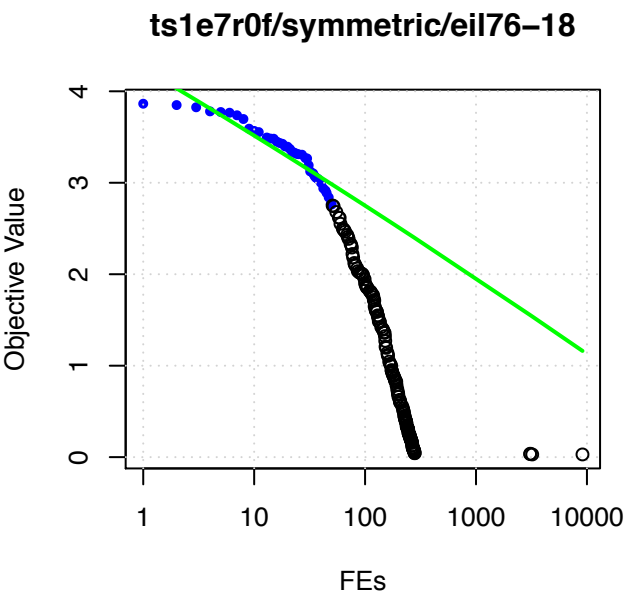
100
1000
10000
FEs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Objective Value
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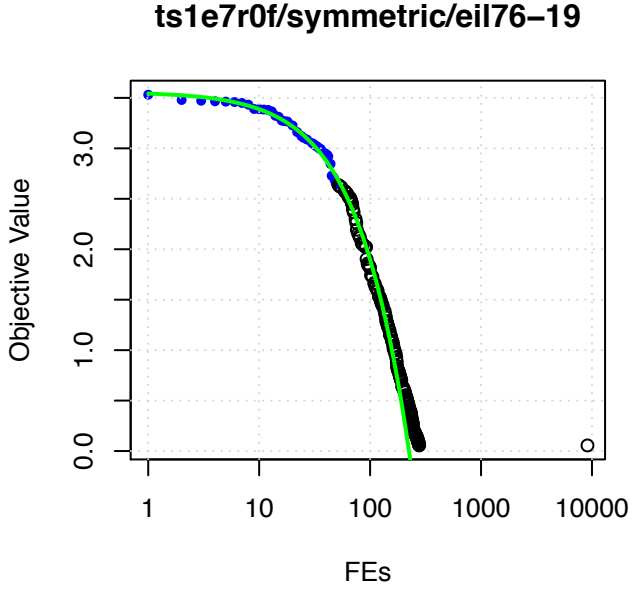
3
4
1
10
100
1000
10000
FEs


ts1e7r0f/symmetric/eil76−19
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2.0
3.0
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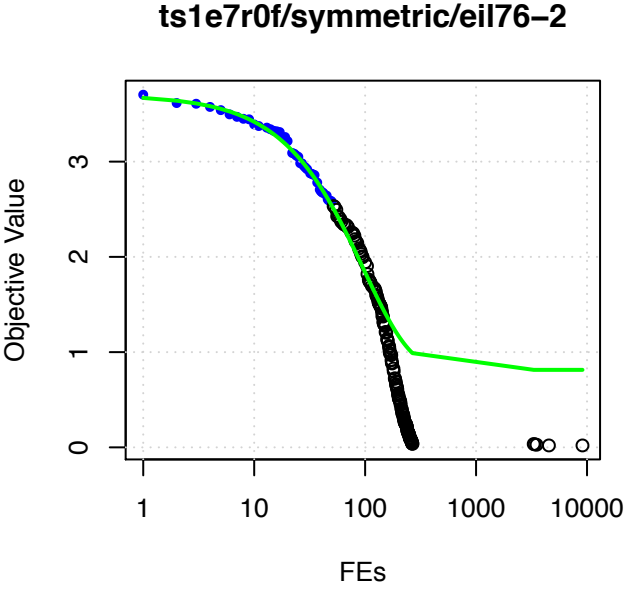
10
100
1000
10000
FEs


ts1e7r0f/symmetric/eil76−2
Objective Value
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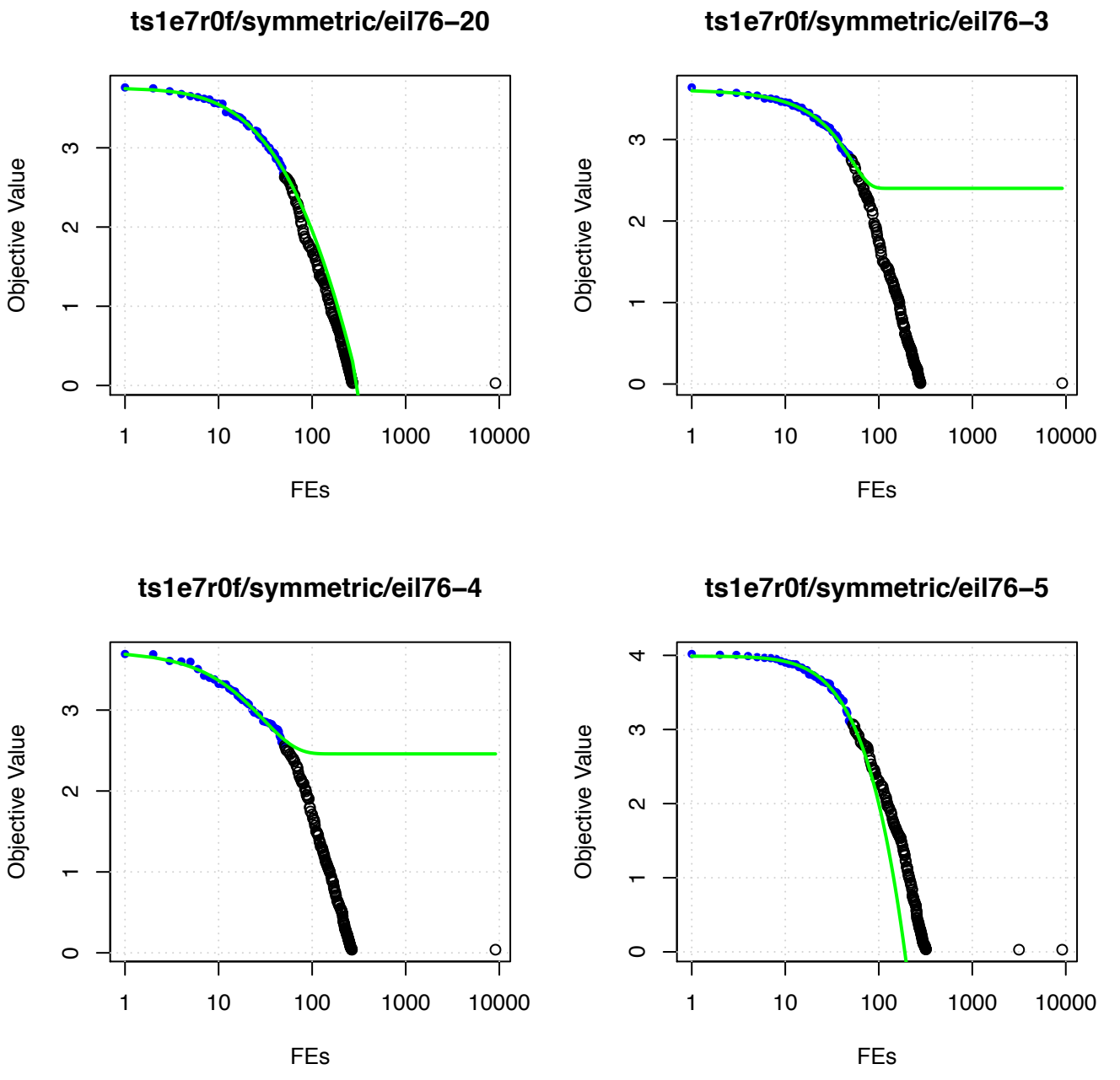
2
3
1
10
100
1000
10000
FEs


ts1e7r0f/symmetric/eil76−20
ts1e7r0f/symmetric/eil76−3
ts1e7r0f/symmetric/eil76−4
ts1e7r0f/symmetric/eil76−5
Objective Value
FEs
0
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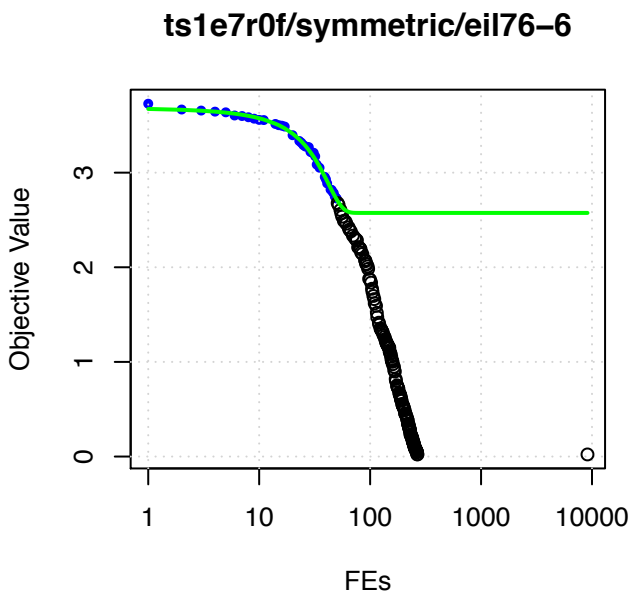
2
3
4
1
10
100
1000
10000


ts1e7r0f/symmetric/eil76−6
Objective Value
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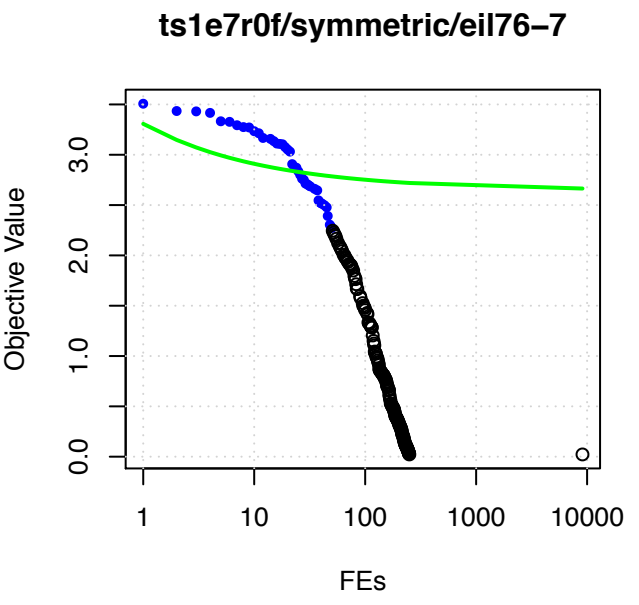
2
3
1
10
100
1000
10000
FEs


ts1e7r0f/symmetric/eil76−7
Objective Value
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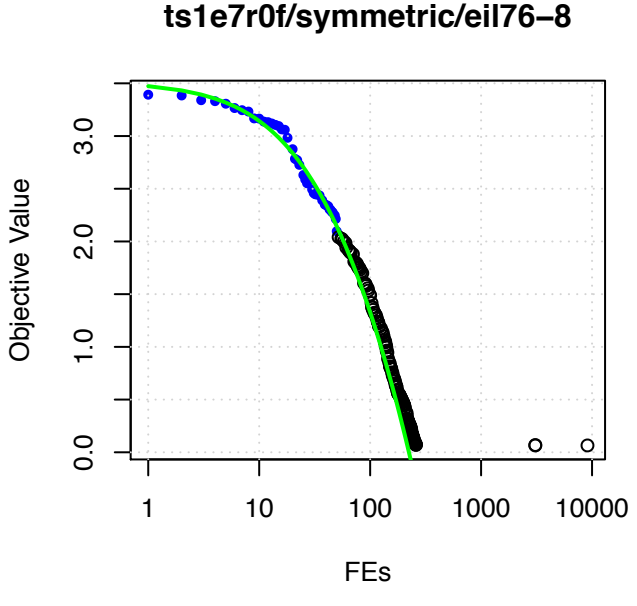
2.0
3.0
1
10
100
1000
10000
FEs


ts1e7r0f/symmetric/eil76−8
Objective Value
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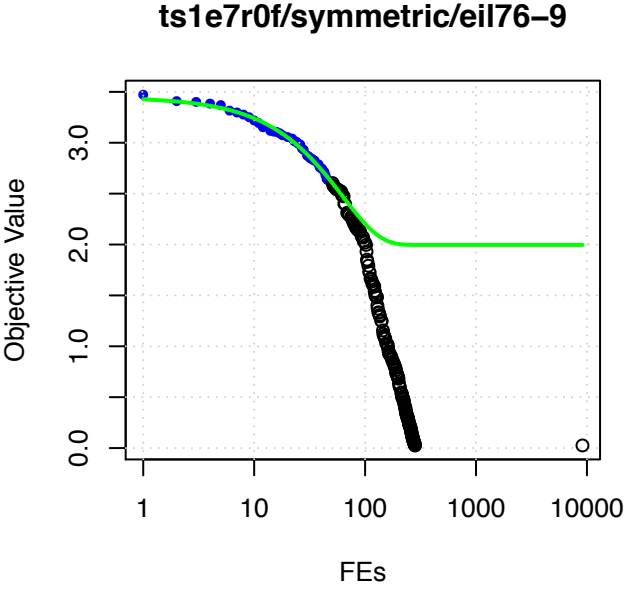
1.0
2.0
3.0
1
10
100
1000
10000
FEs


ts1e7r0f/symmetric/eil76−9
Objective Value
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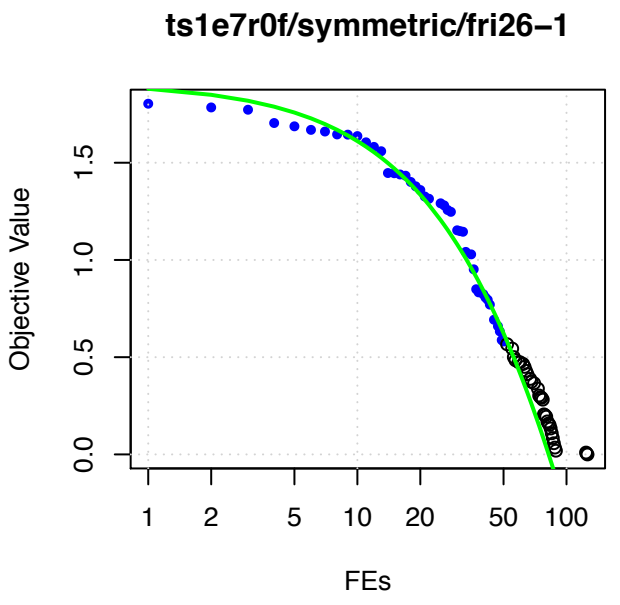
1.0
2.0
3.0
1
10
100
1000
10000
FEs


ts1e7r0f/symmetric/fri26−1
Objective Value
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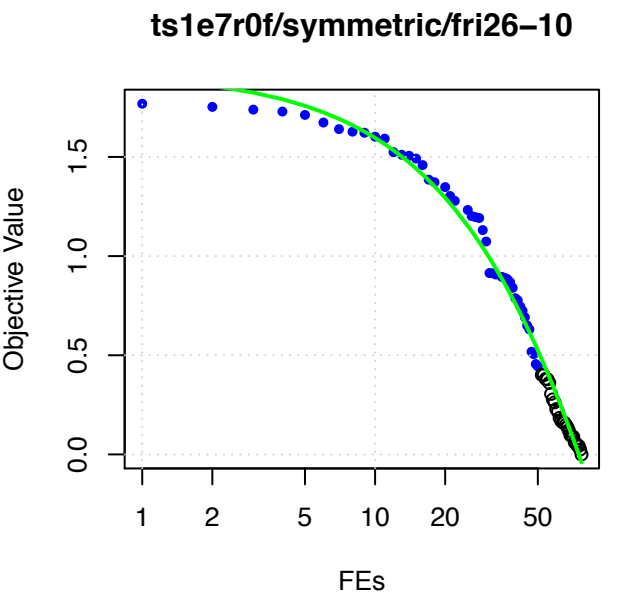
0.5
1.0
1.5
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/fri26−10
Objective Value
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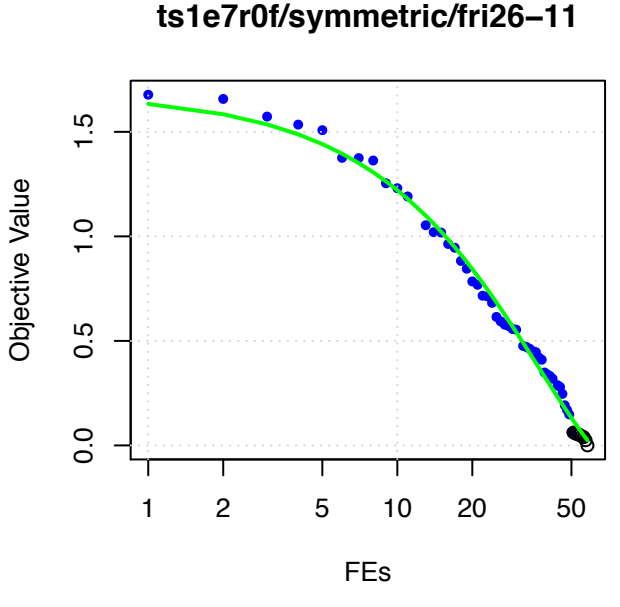
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/fri26−11
Objective Value
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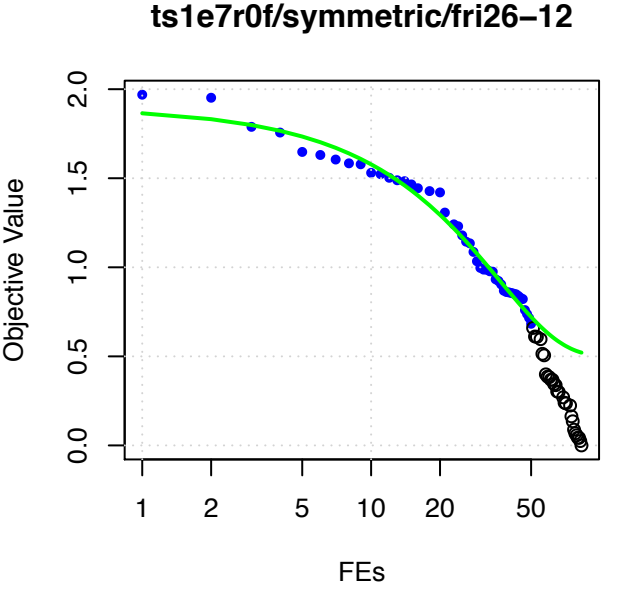
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/fri26−12
Objective Value
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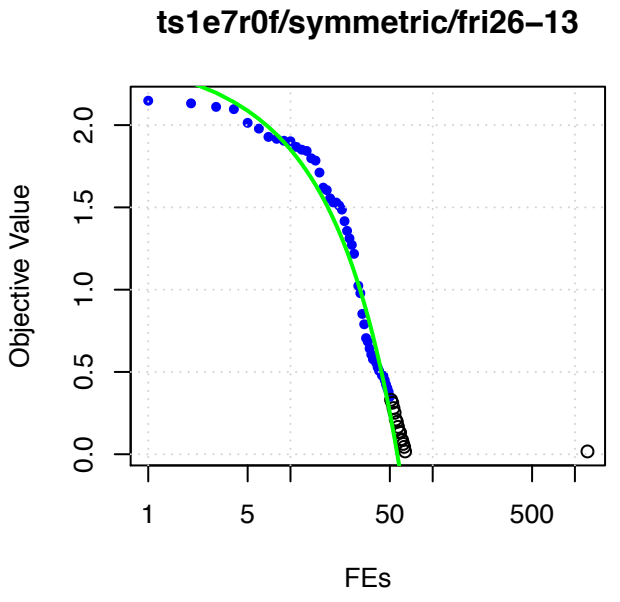
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/fri26−13
Objective Value
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1.0
1.5
2.0
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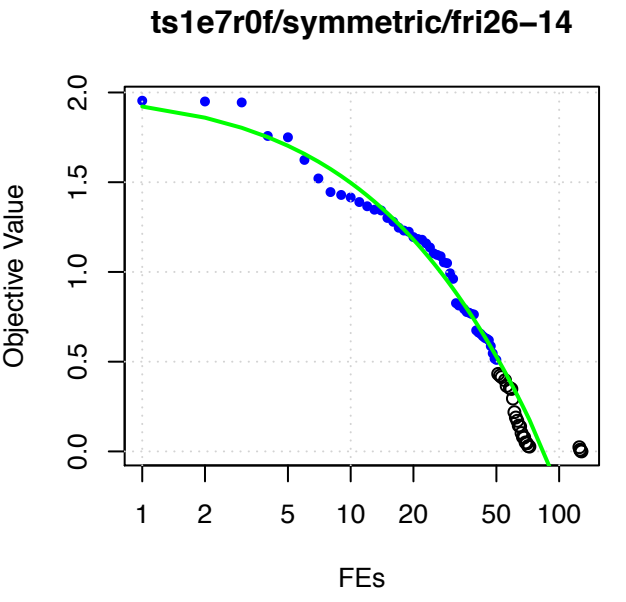
5
50
500
FEs


ts1e7r0f/symmetric/fri26−14
Objective Value
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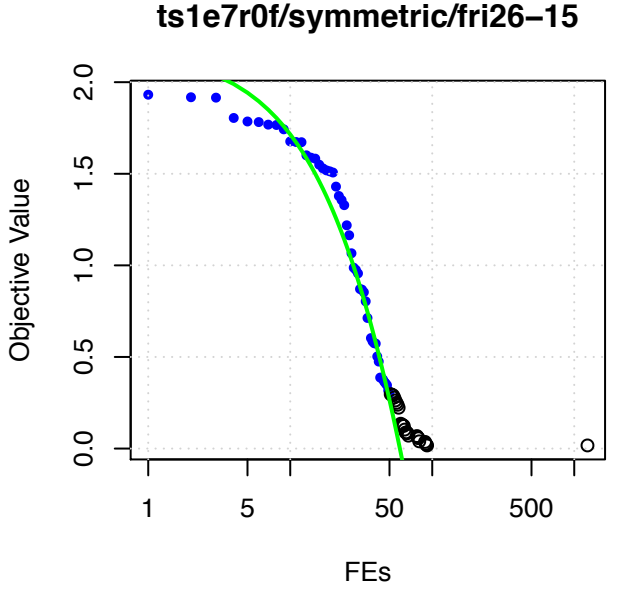
1.0
1.5
2.0
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/fri26−15
Objective Value
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1.0
1.5
2.0
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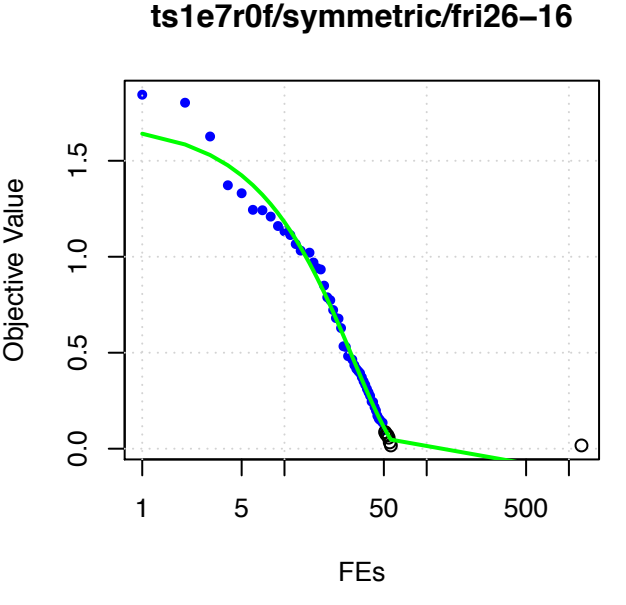
5
50
500
FEs


ts1e7r0f/symmetric/fri26−16
Objective Value
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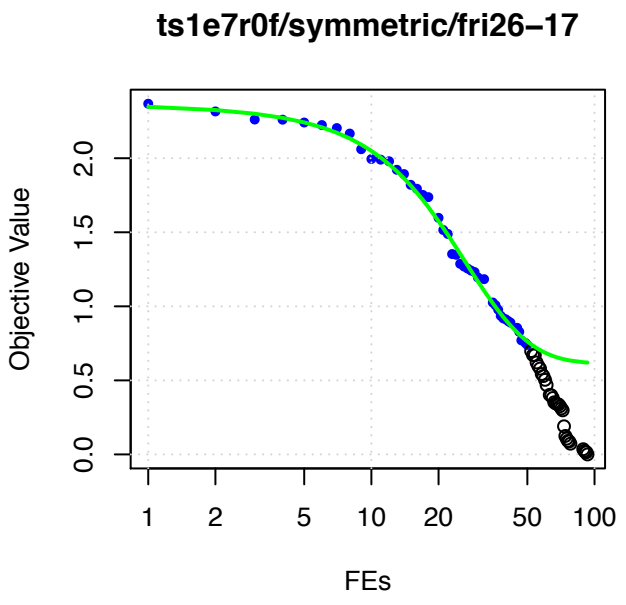
FEs


ts1e7r0f/symmetric/fri26−17
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1.5
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2
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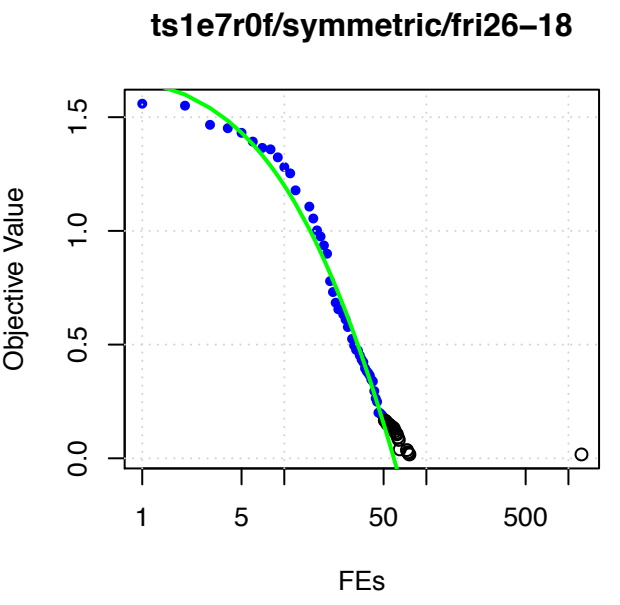
100
FEs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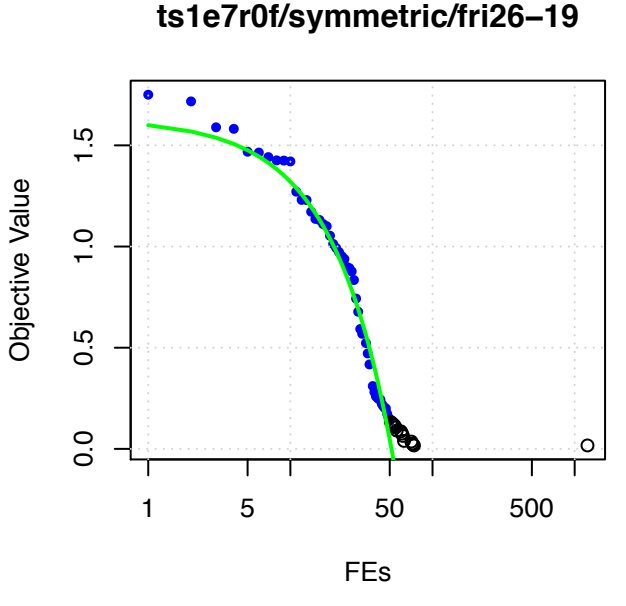
FEs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1
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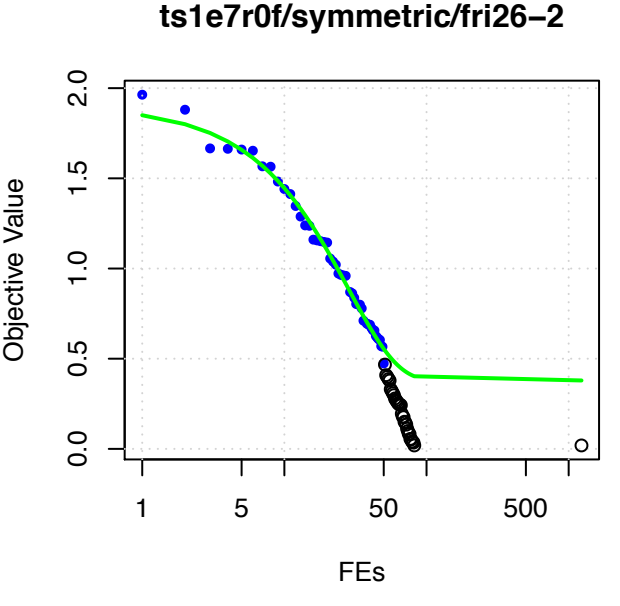
500
FEs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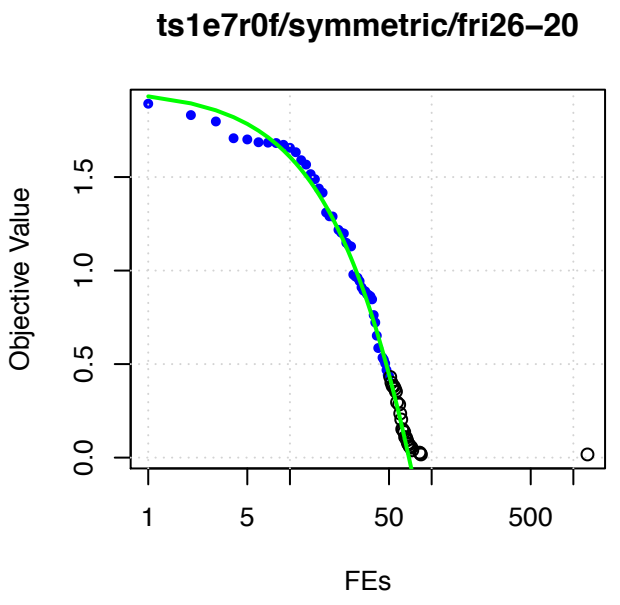
FEs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Objective Value
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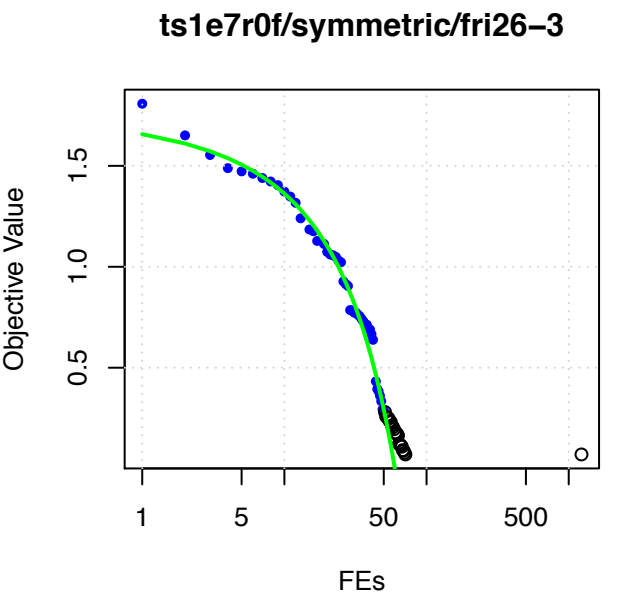
FEs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Objective Value
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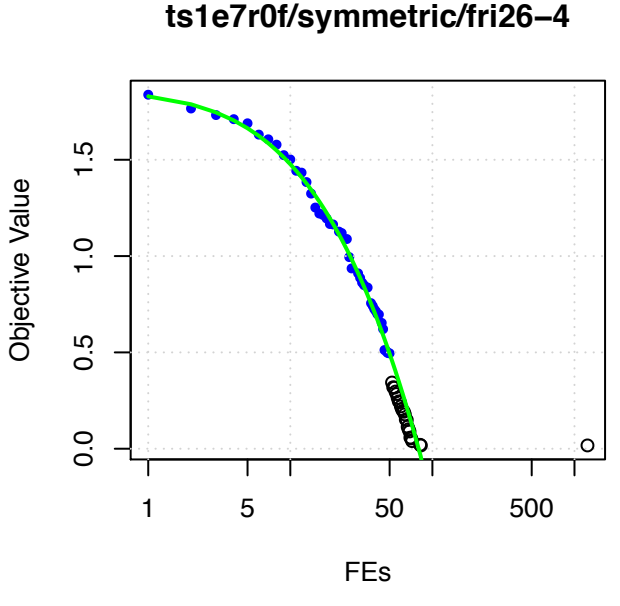
1
5
50
500
FEs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Objective Value
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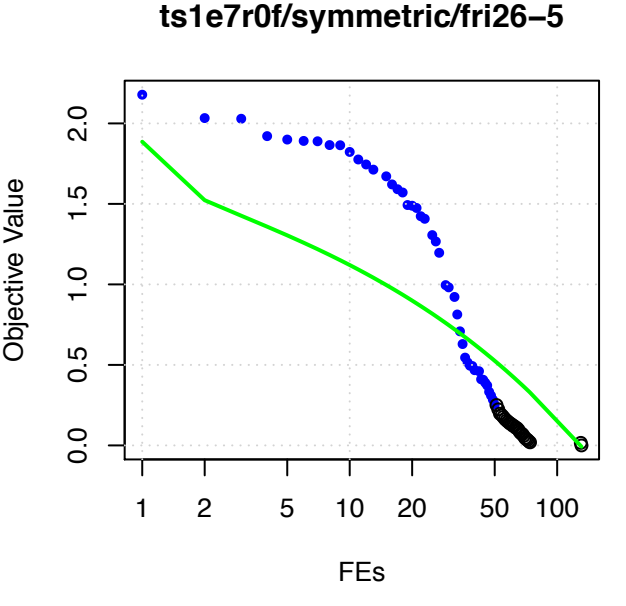
1.0
1.5
1
5
50
500
FEs


ts1e7r0f/symmetric/fri26−5
Objective Value
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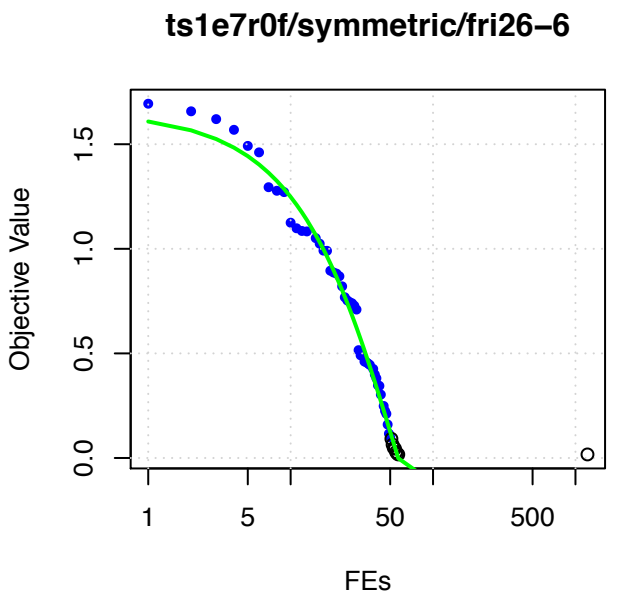
1.0
1.5
2.0
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/fri26−6
Objective Value
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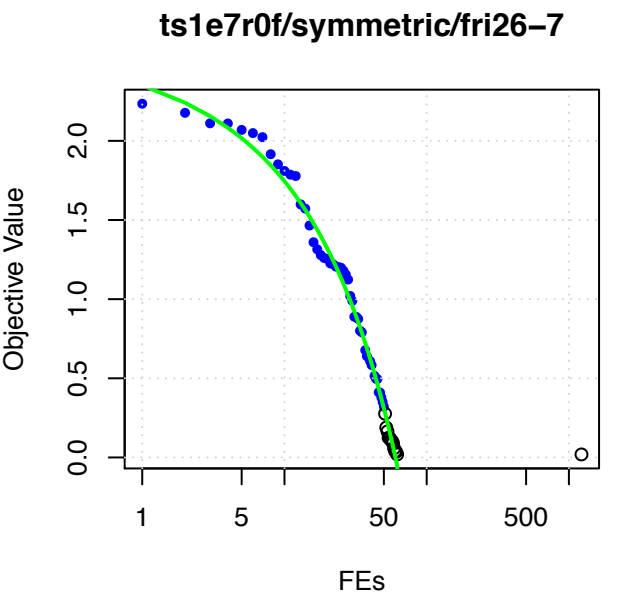
1.0
1.5
1
5
50
500
FEs


ts1e7r0f/symmetric/fri26−7
Objective Value
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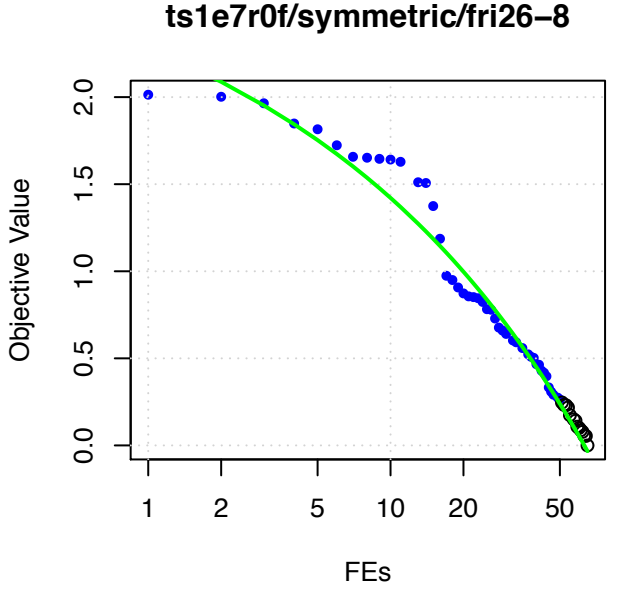
1.0
1.5
2.0
1
5
50
500
FEs


ts1e7r0f/symmetric/fri26−8
Objective Value
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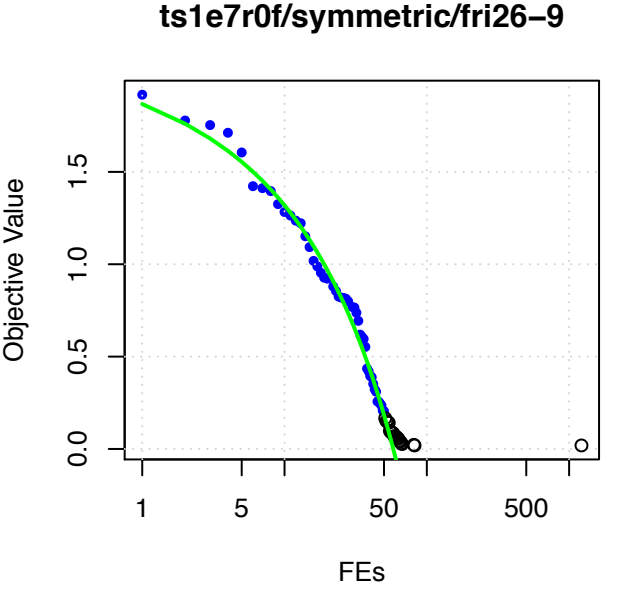
1.5
2.0
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/fri26−9
Objective Value
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1.0
1.5
1
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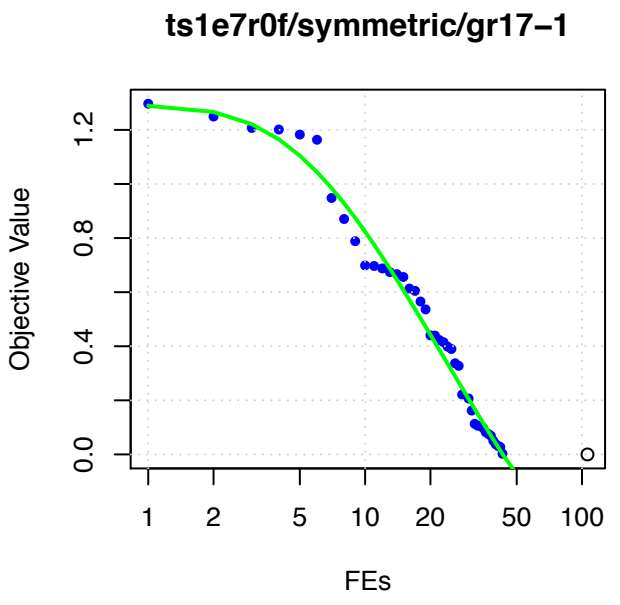
50
500
FEs


ts1e7r0f/symmetric/gr17−1
Objective Value
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1
2
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10
20
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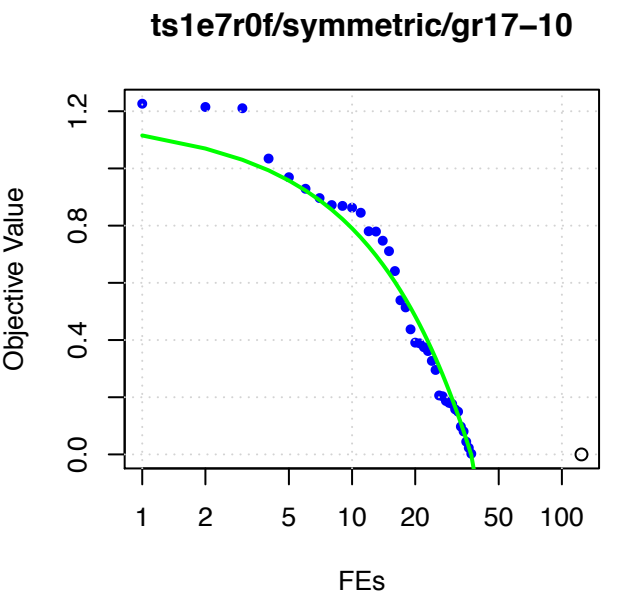
100
FEs


ts1e7r0f/symmetric/gr17−10
Objective Value
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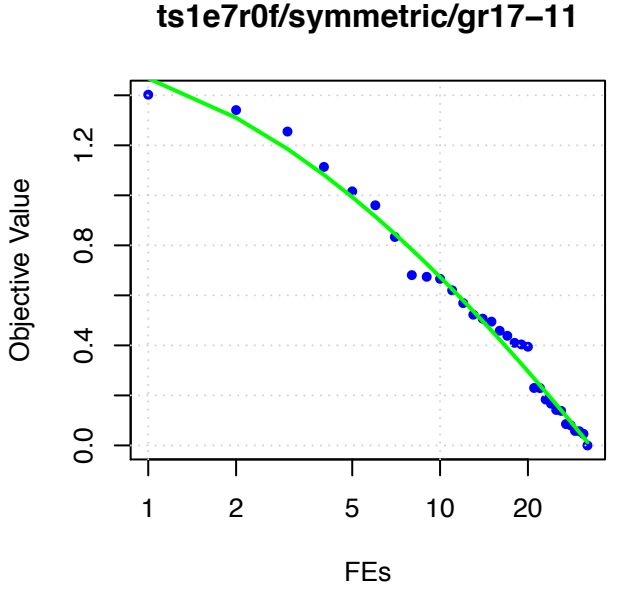
0.8
1.2
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/gr17−11
Objective Value
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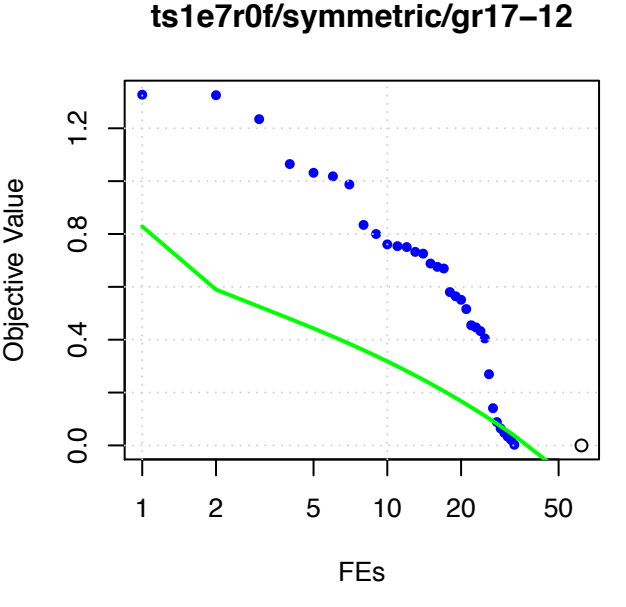
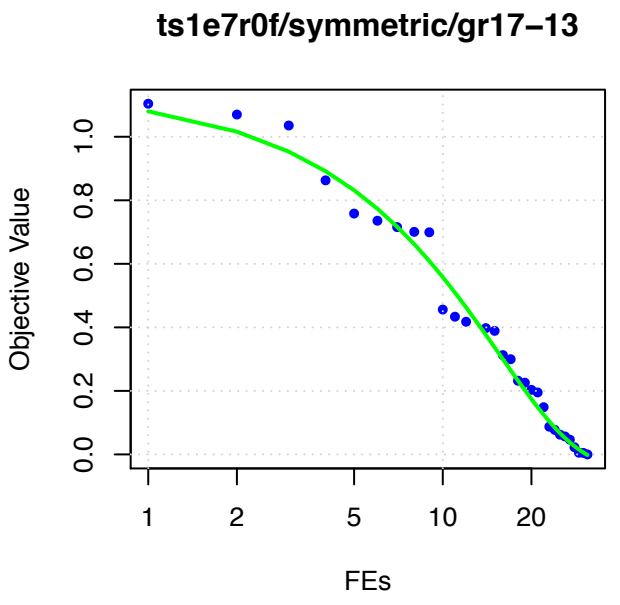
0.4
0.8
1.2
1
2
5
10
20
FEs


ts1e7r0f/symmetric/gr17−12
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/gr17−13
Objective Value
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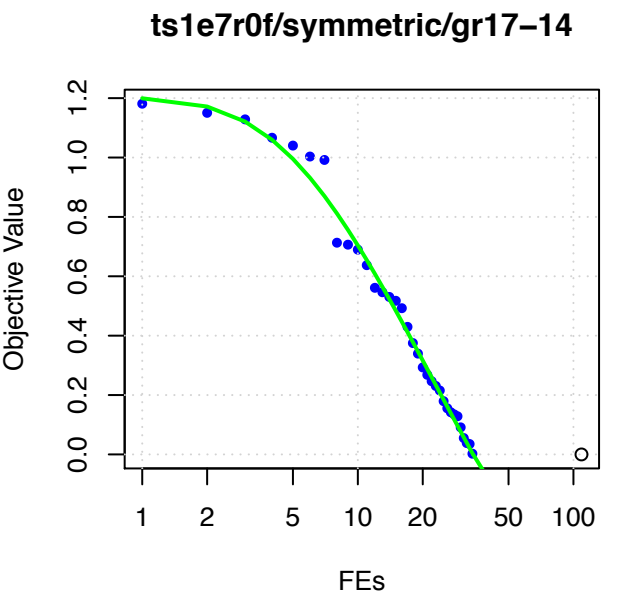
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
FEs


ts1e7r0f/symmetric/gr17−14
Objective Value
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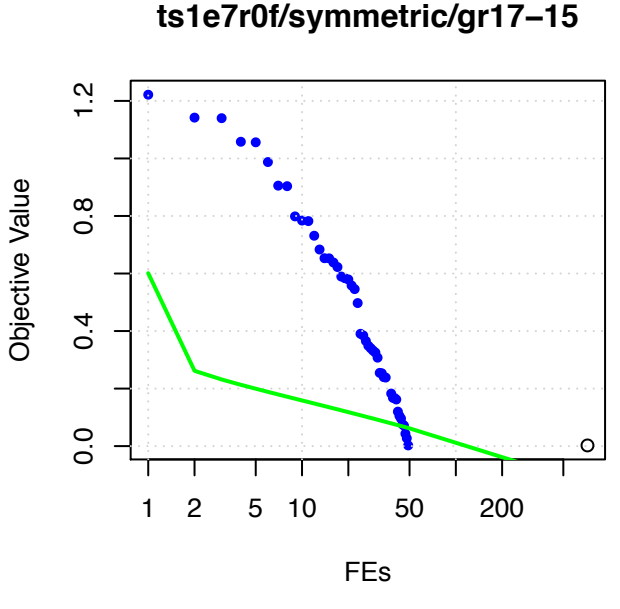
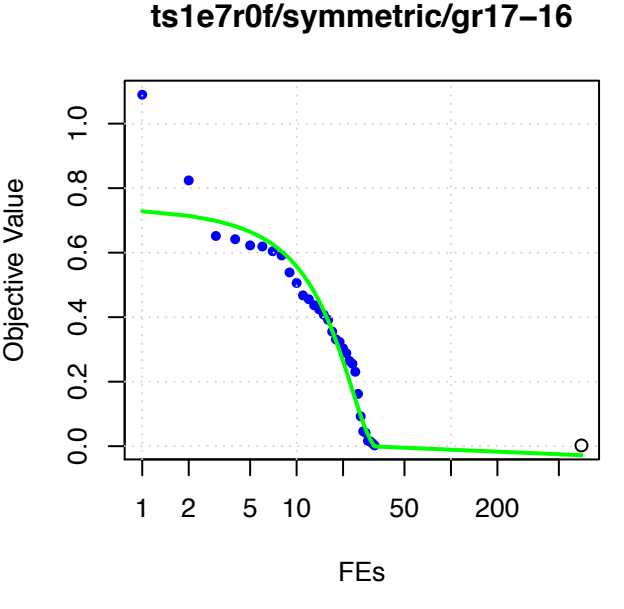
0.2
0.4
0.6
0.8
1.0
1.2
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/gr17−15
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
50
200
FEs


ts1e7r0f/symmetric/gr17−16
Objective Value
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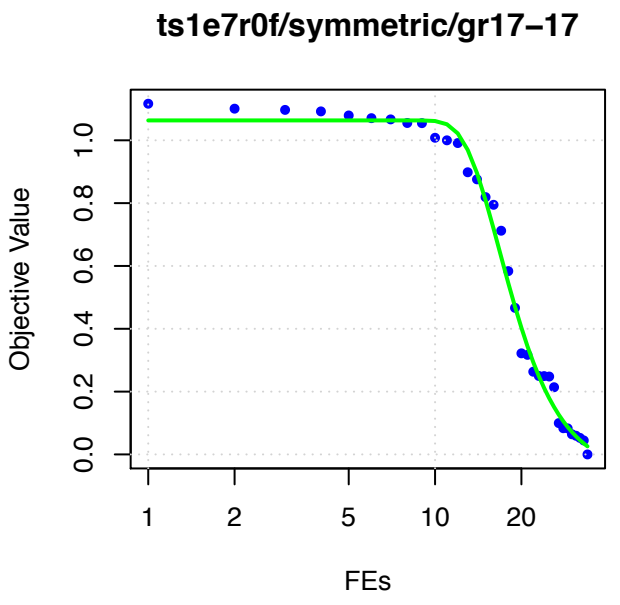
0.2
0.4
0.6
0.8
1.0
1
2
5
10
50
200
FEs


ts1e7r0f/symmetric/gr17−17
Objective Value
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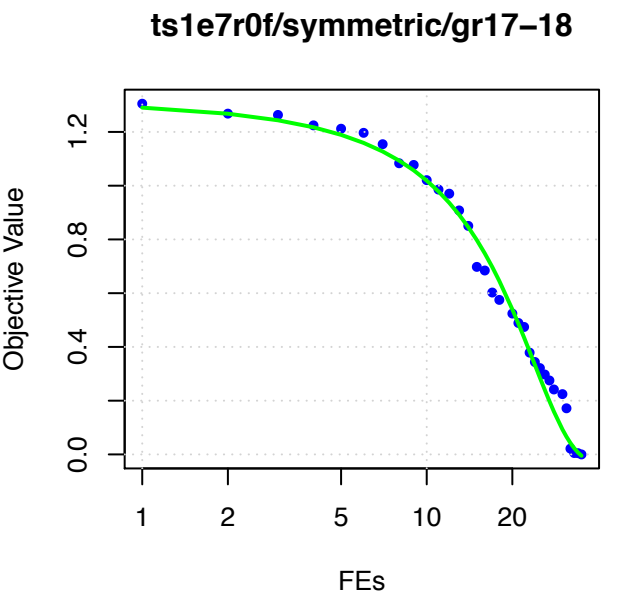
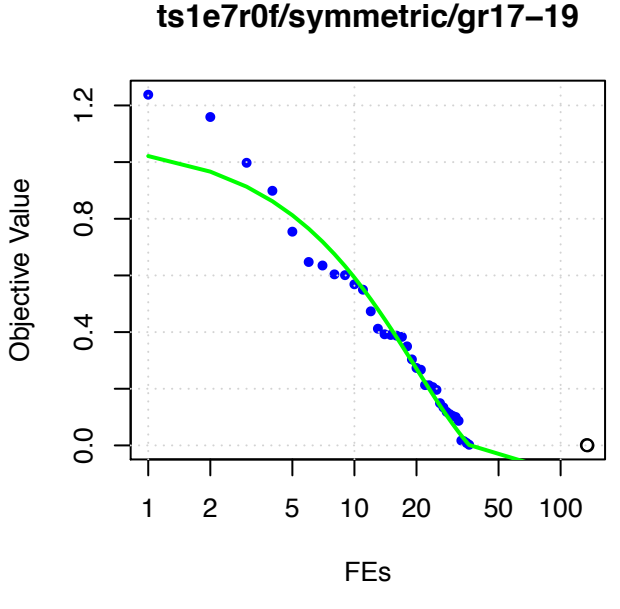
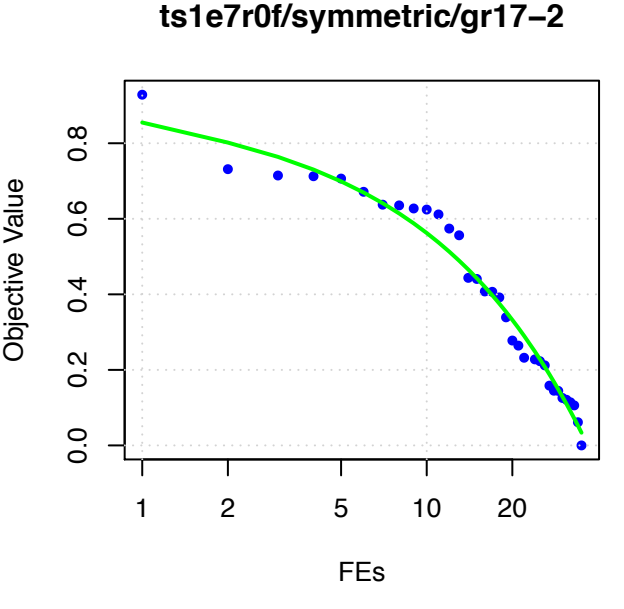
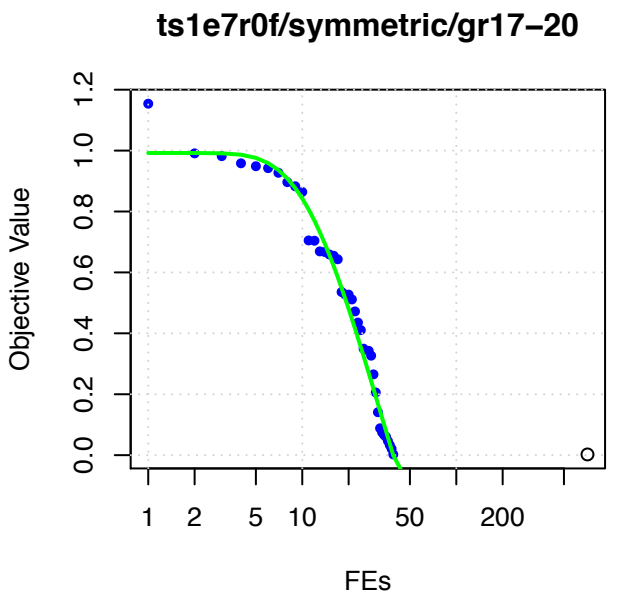
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
FEs


ts1e7r0f/symmetric/gr17−18
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
20
FEs


ts1e7r0f/symmetric/gr17−19
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/gr17−2
Objective Value
0.0
0.2
0.4
0.6
0.8
1
2
5
10
20
FEs


ts1e7r0f/symmetric/gr17−20
Objective Value
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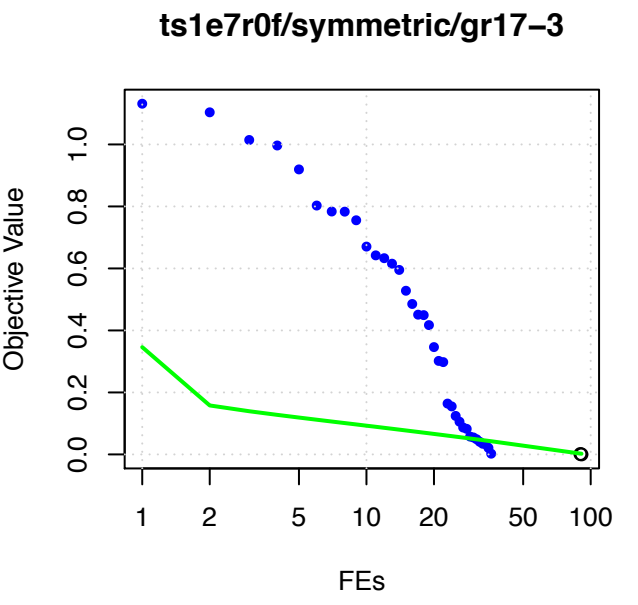
0.2
0.4
0.6
0.8
1.0
1.2
1
2
5
10
50
200
FEs


ts1e7r0f/symmetric/gr17−3
Objective Value
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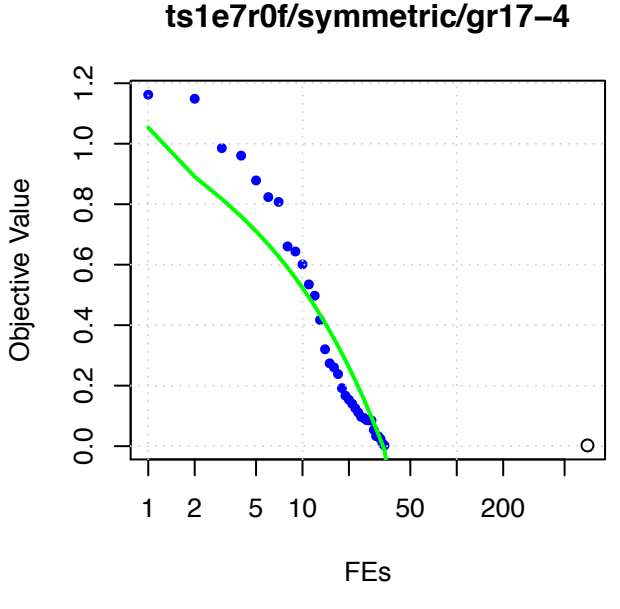
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/gr17−4
Objective Value
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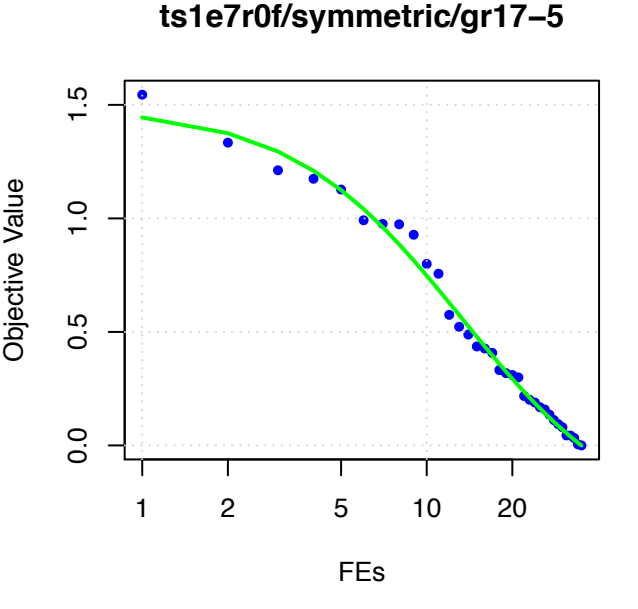
0.2
0.4
0.6
0.8
1.0
1.2
1
2
5
10
50
200
FEs


ts1e7r0f/symmetric/gr17−5
Objective Value
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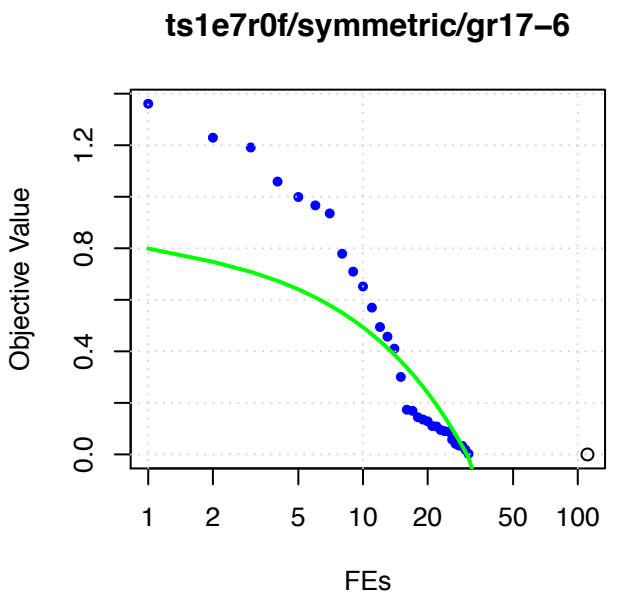
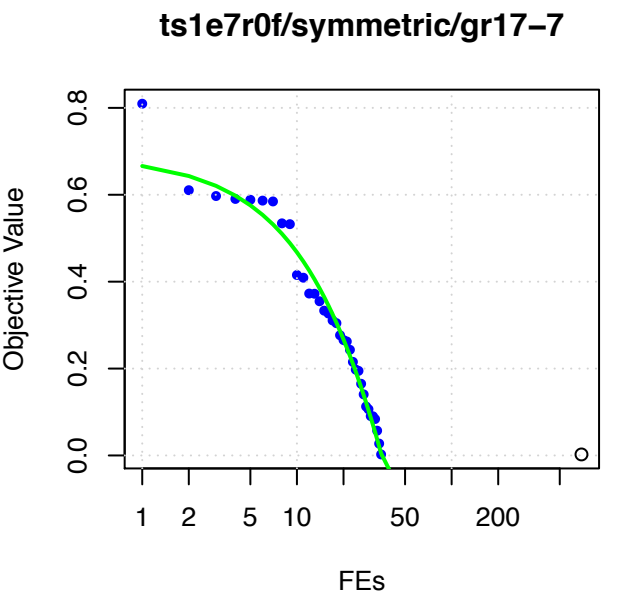
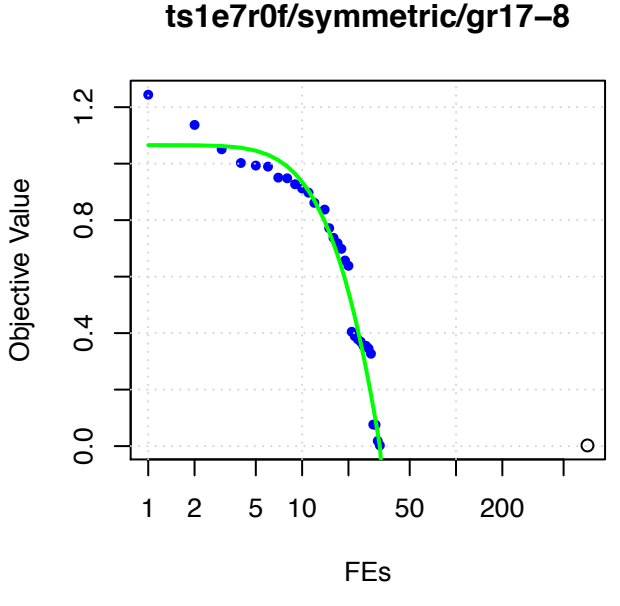
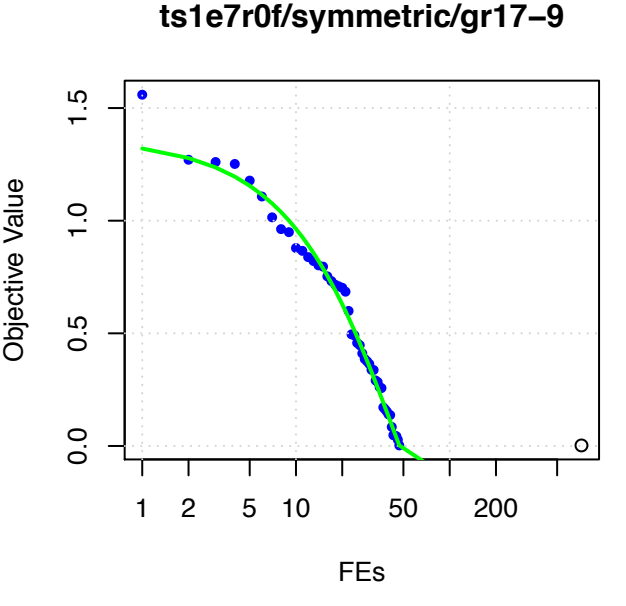
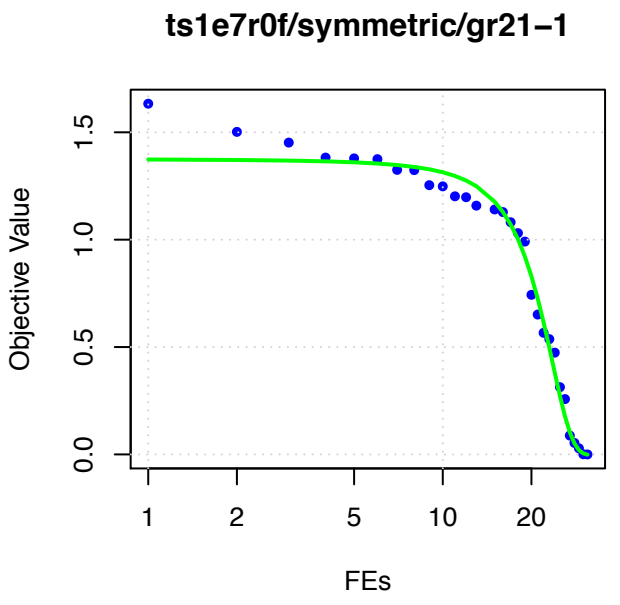
0.5
1.0
1.5
1
2
5
10
20
FEs


ts1e7r0f/symmetric/gr17−6
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/gr17−7
Objective Value
0.0
0.2
0.4
0.6
0.8
1
2
5
10
50
200
FEs


ts1e7r0f/symmetric/gr17−8
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
50
200
FEs


ts1e7r0f/symmetric/gr17−9
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
50
200
FEs


ts1e7r0f/symmetric/gr21−1
Objective Value
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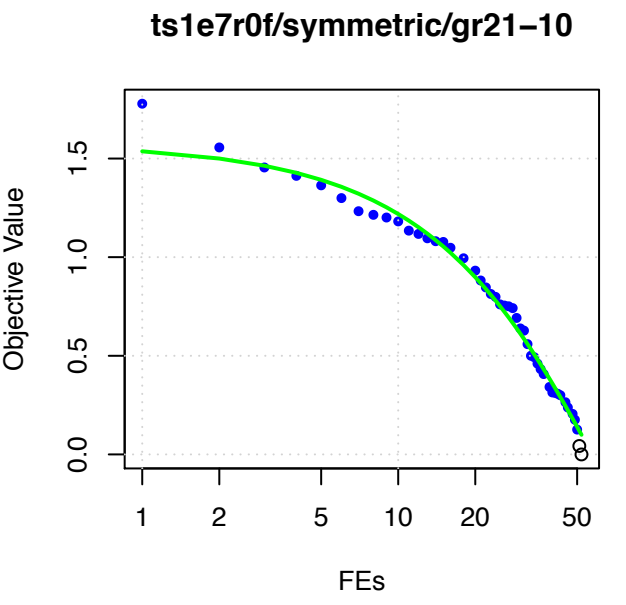
0.5
1.0
1.5
1
2
5
10
20
FEs


ts1e7r0f/symmetric/gr21−10
Objective Value
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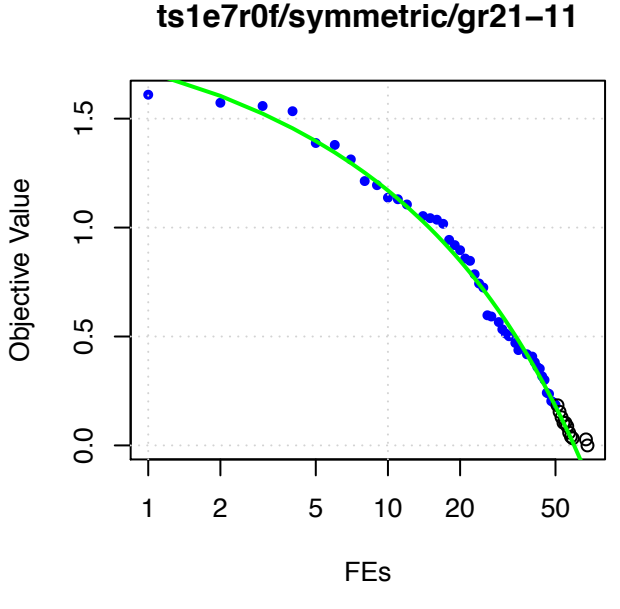
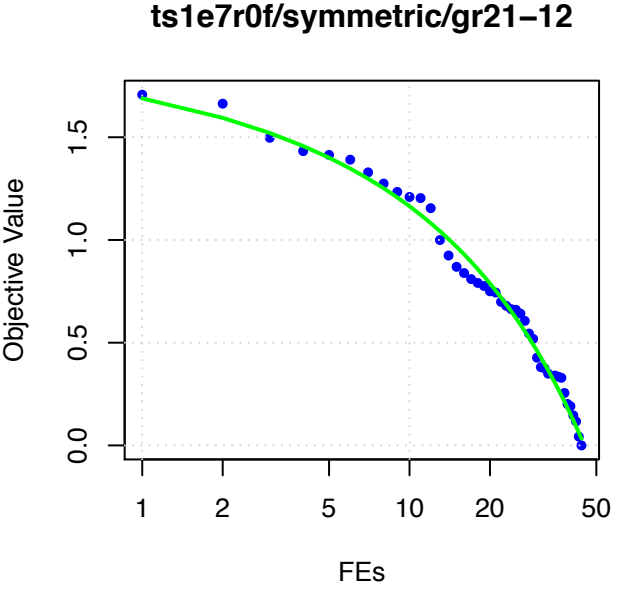
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/gr21−11
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/gr21−12
Objective Value
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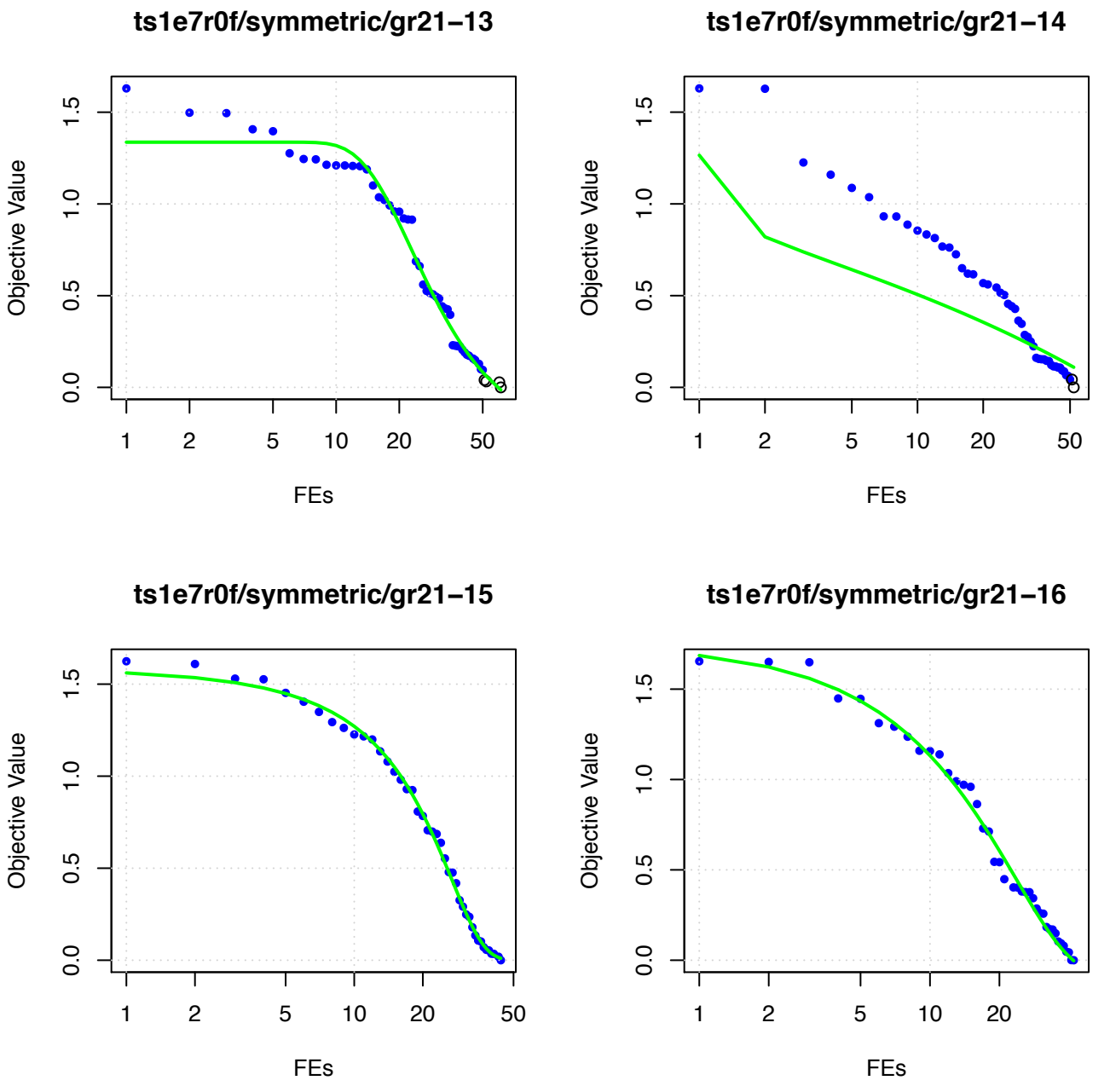
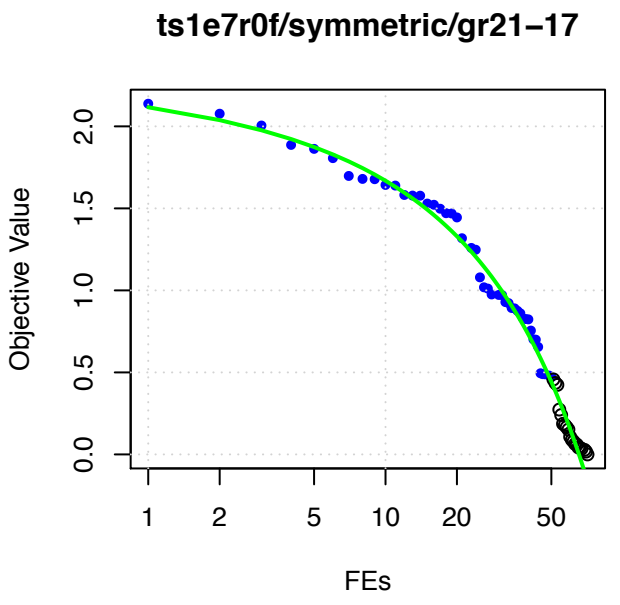
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/gr21−13
ts1e7r0f/symmetric/gr21−14
ts1e7r0f/symmetric/gr21−15
ts1e7r0f/symmetric/gr21−16
Objective Value
FEs
0.0
0.5
1.0
1.5
1
2
5
10
20
50


ts1e7r0f/symmetric/gr21−17
Objective Value
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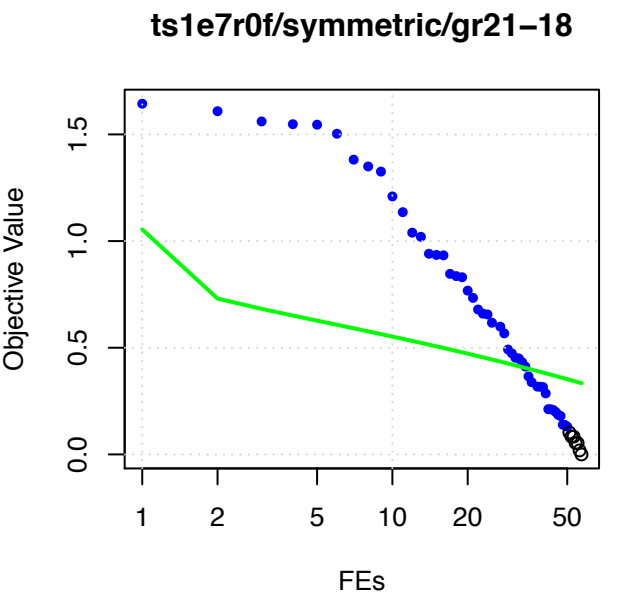
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/gr21−18
Objective Value
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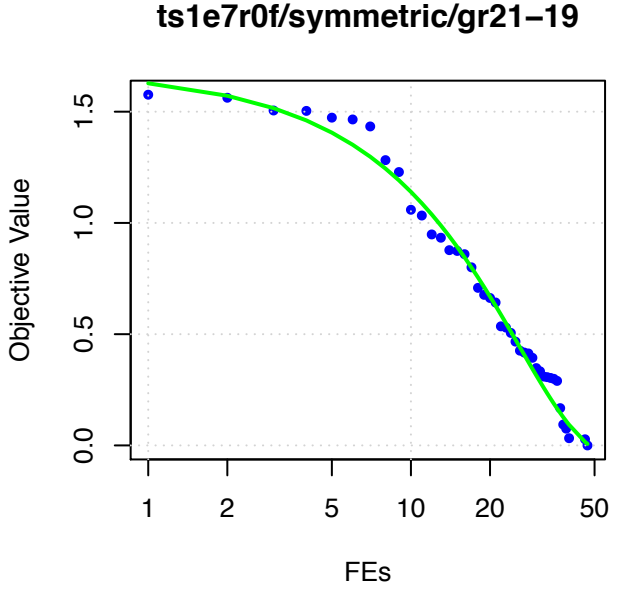
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/gr21−19
Objective Value
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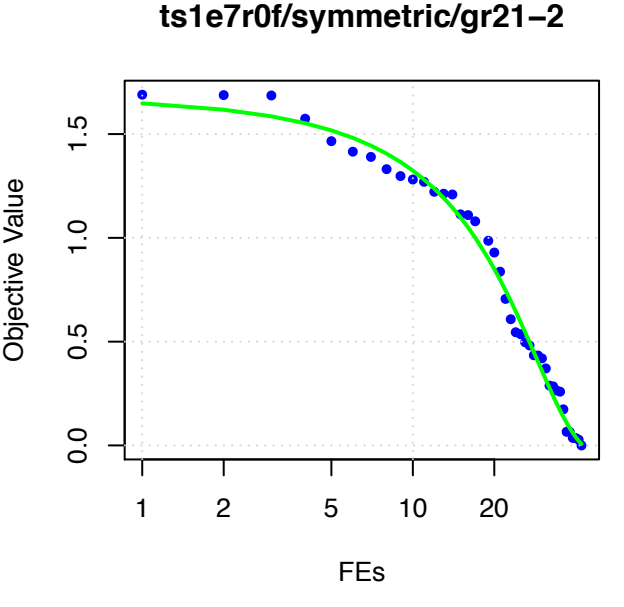
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/gr21−2
Objective Value
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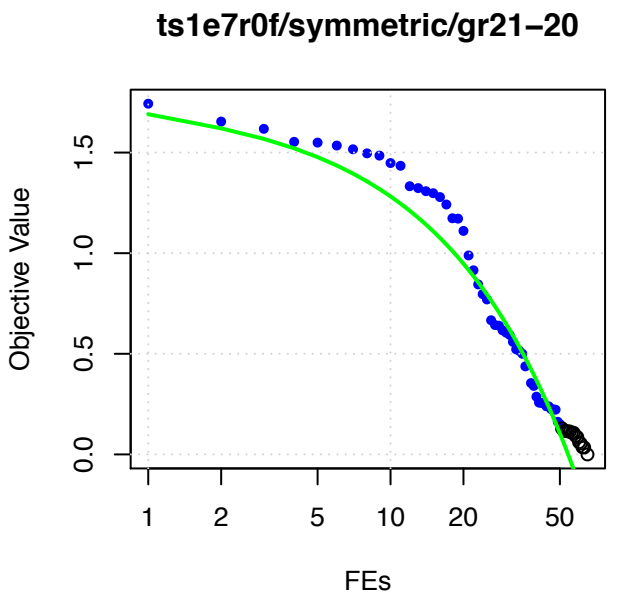
1.0
1.5
1
2
5
10
20
FEs


ts1e7r0f/symmetric/gr21−20
Objective Value
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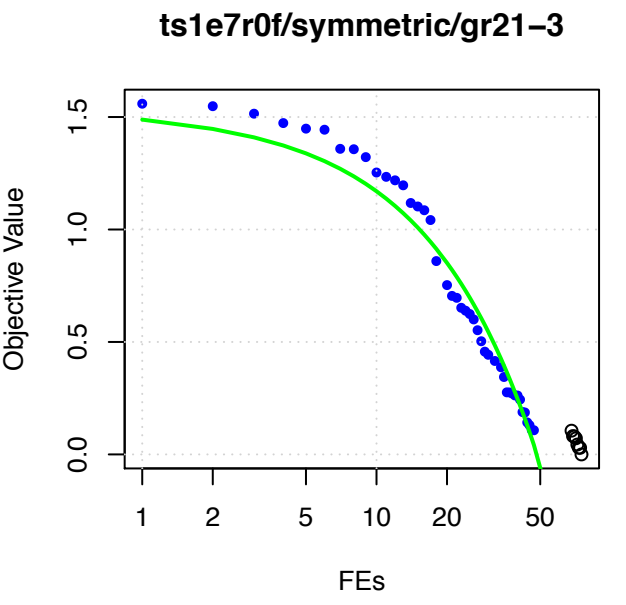
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/gr21−3
Objective Value
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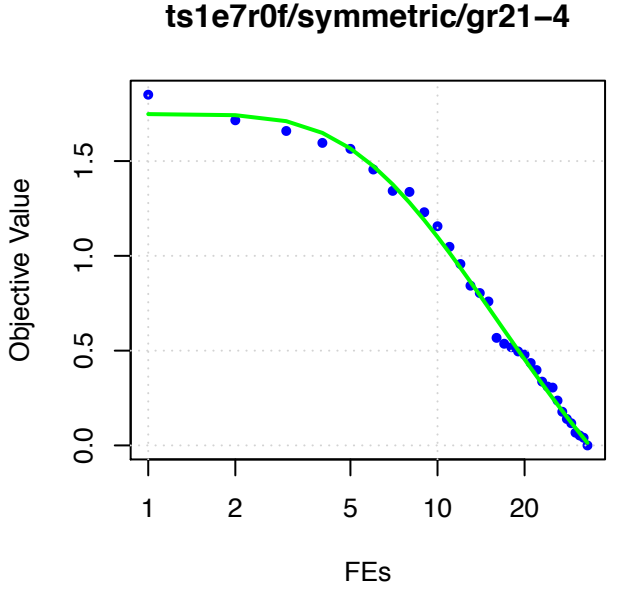
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/gr21−4
Objective Value
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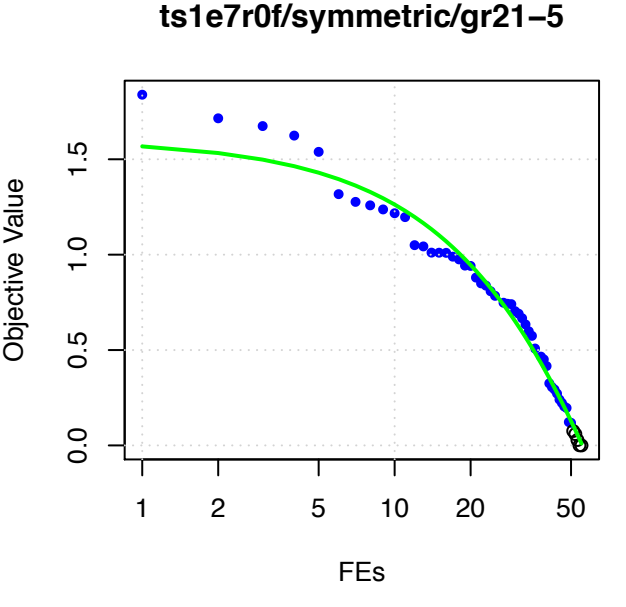
1.0
1.5
1
2
5
10
20
FEs


ts1e7r0f/symmetric/gr21−5
Objective Value
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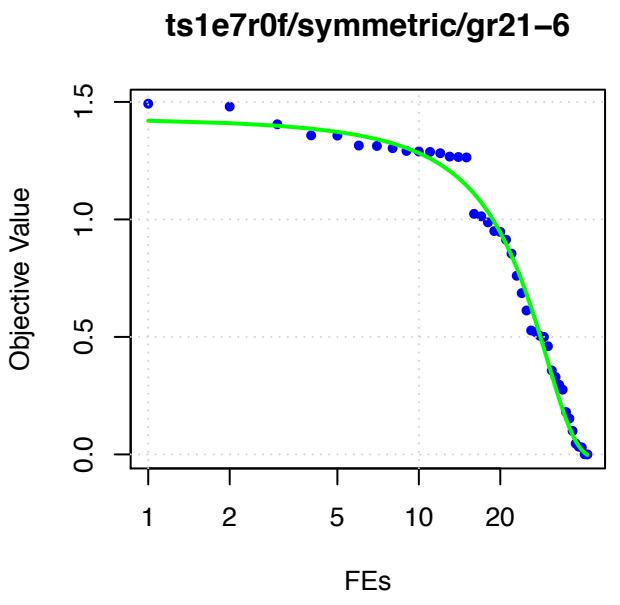
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/gr21−6
Objective Value
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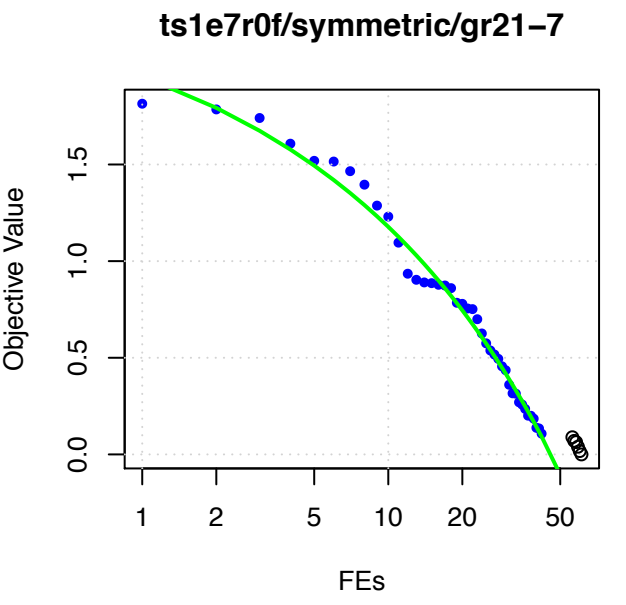
1.0
1.5
1
2
5
10
20
FEs


ts1e7r0f/symmetric/gr21−7
Objective Value
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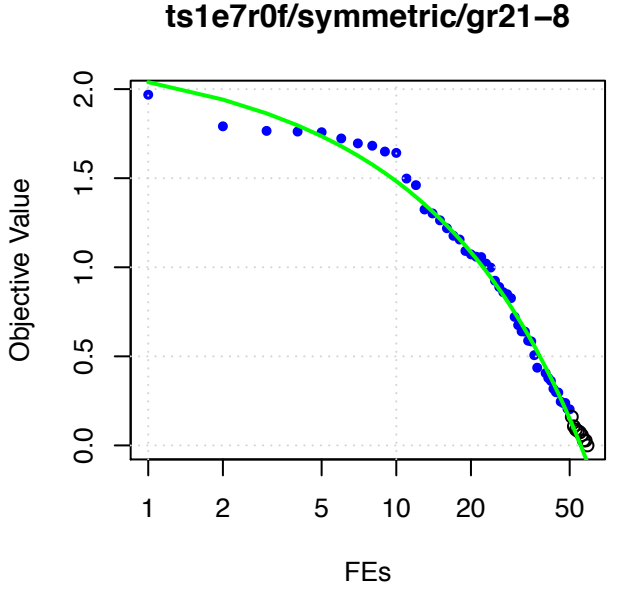
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/gr21−8
Objective Value
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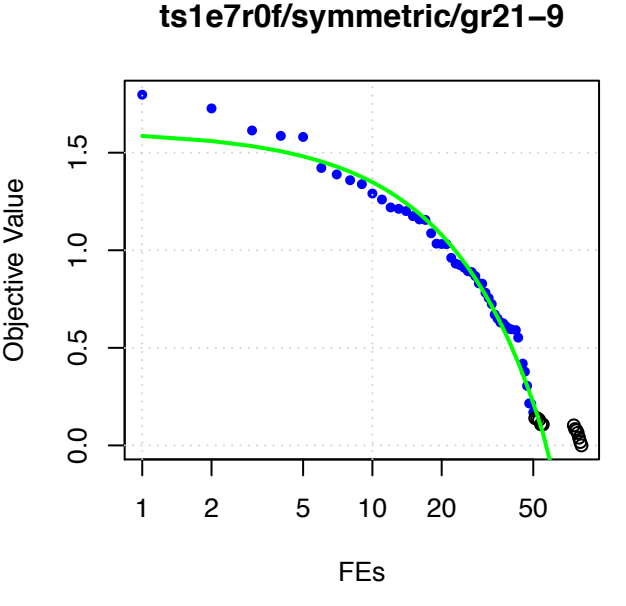
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/gr21−9
Objective Value
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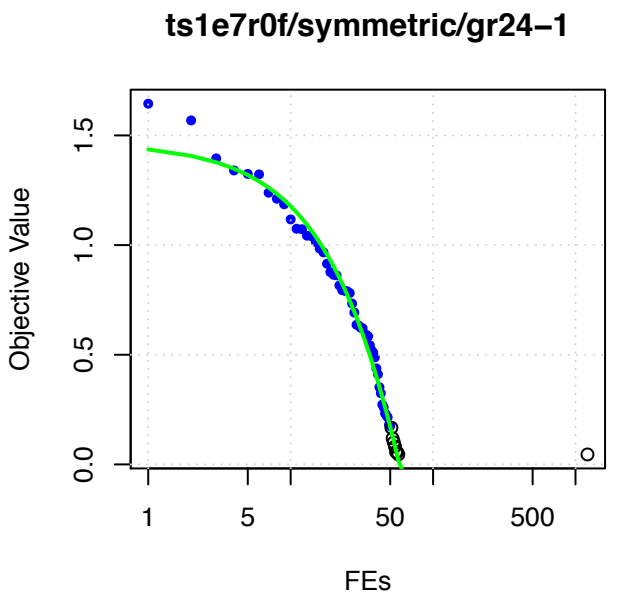
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/gr24−1
Objective Value
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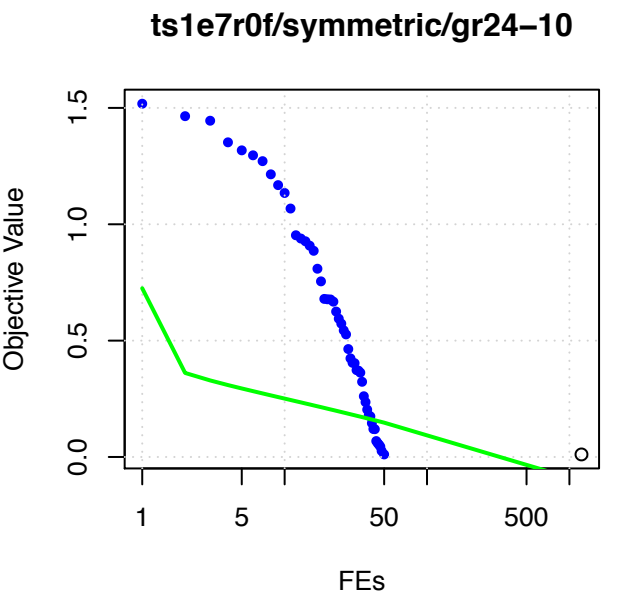
1.0
1.5
1
5
50
500
FEs


ts1e7r0f/symmetric/gr24−10
Objective Value
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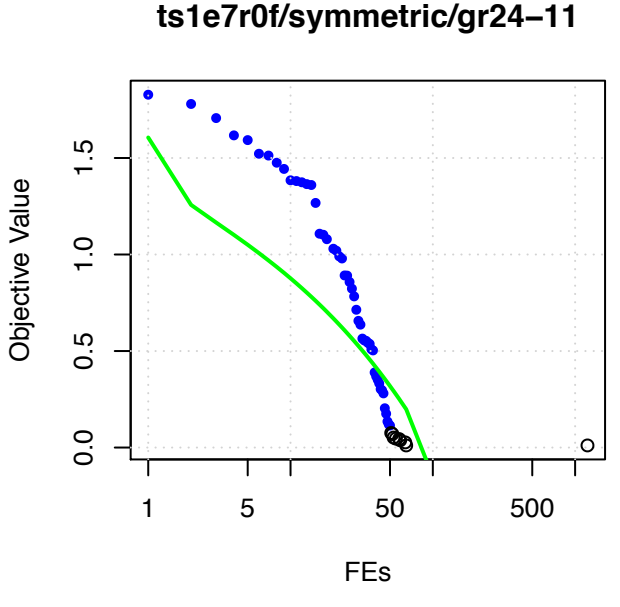
0.5
1.0
1.5
1
5
50
500
FEs


ts1e7r0f/symmetric/gr24−11
Objective Value
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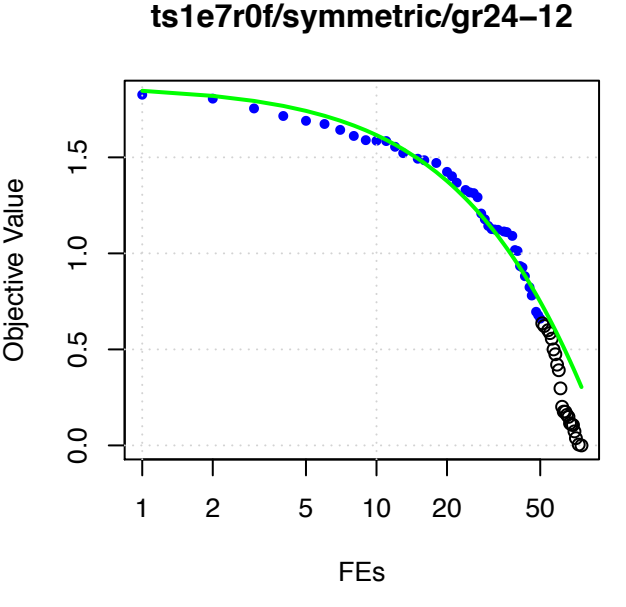
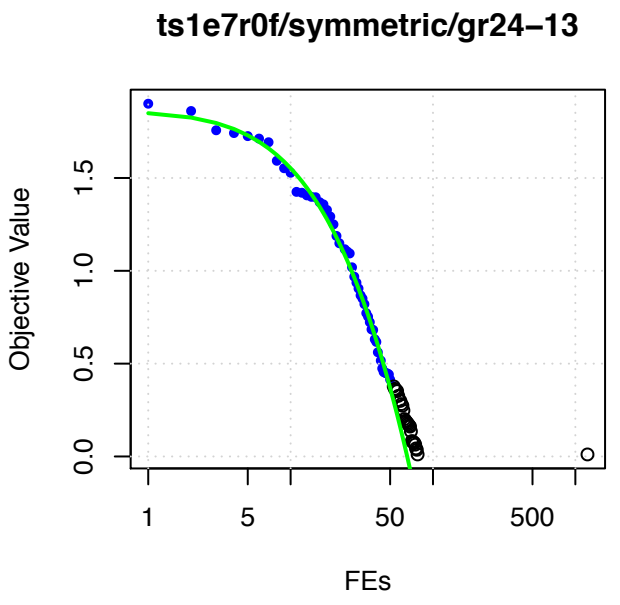
0.5
1.0
1.5
1
5
50
500
FEs


ts1e7r0f/symmetric/gr24−12
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/gr24−13
Objective Value
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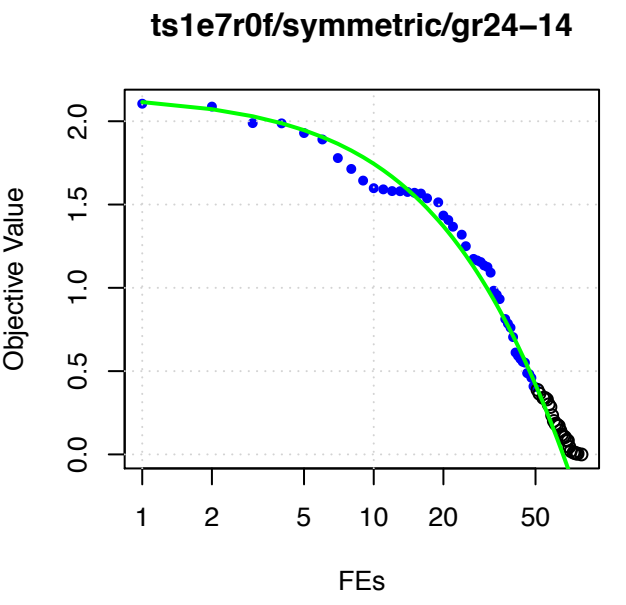
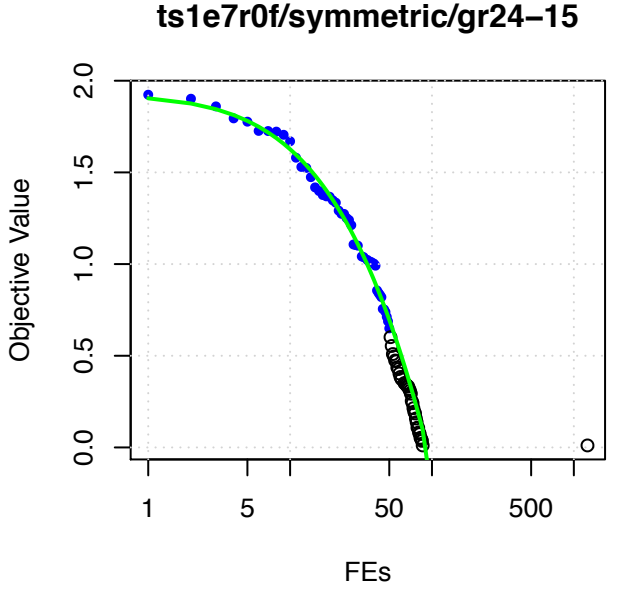
0.5
1.0
1.5
1
5
50
500
FEs


ts1e7r0f/symmetric/gr24−14
Objective Value
0.0
0.5
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/gr24−15
Objective Value
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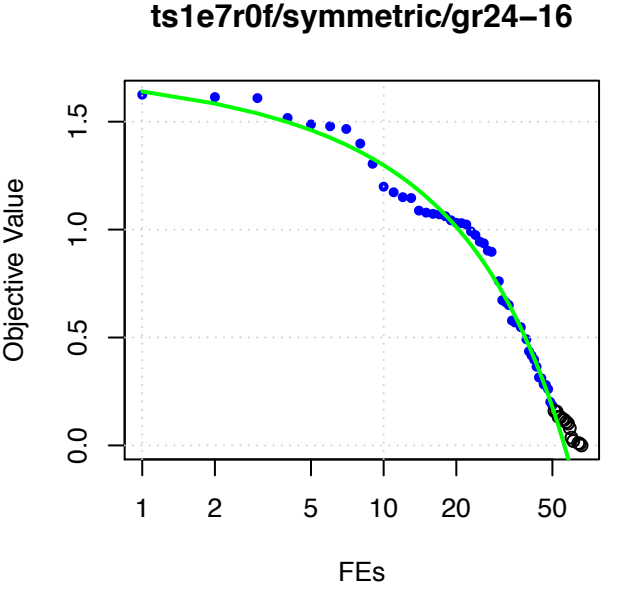
0.5
1.0
1.5
2.0
1
5
50
500
FEs


ts1e7r0f/symmetric/gr24−16
Objective Value
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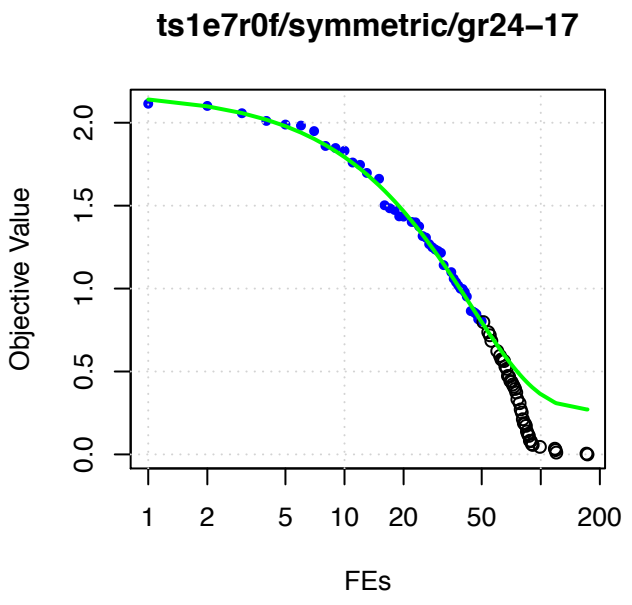
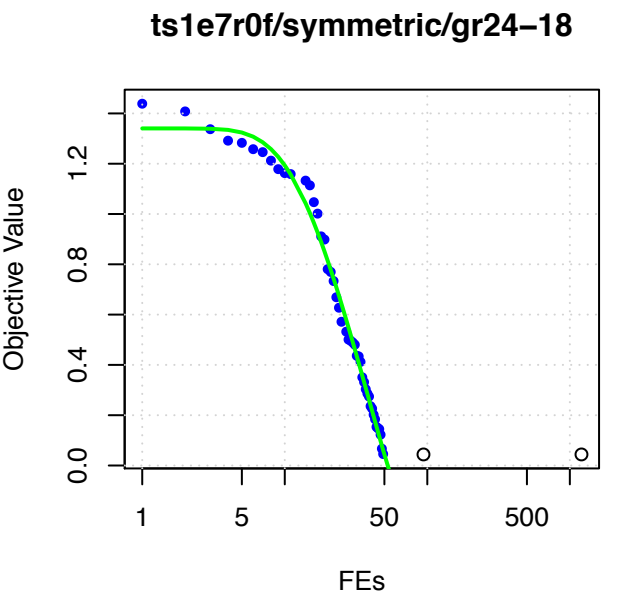
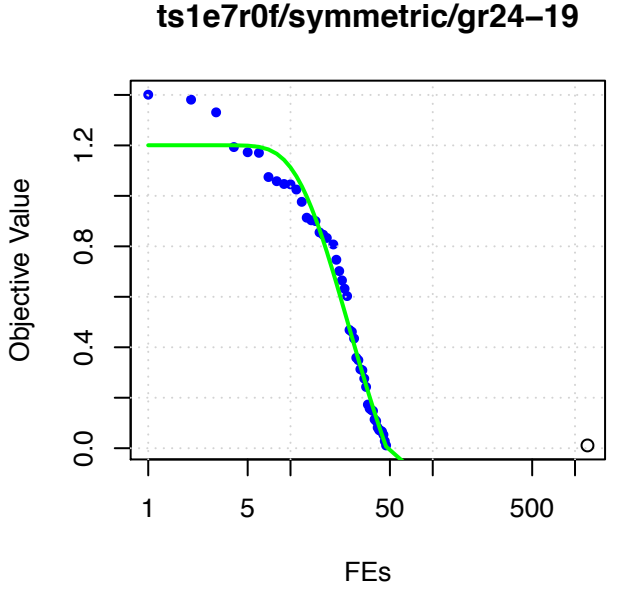
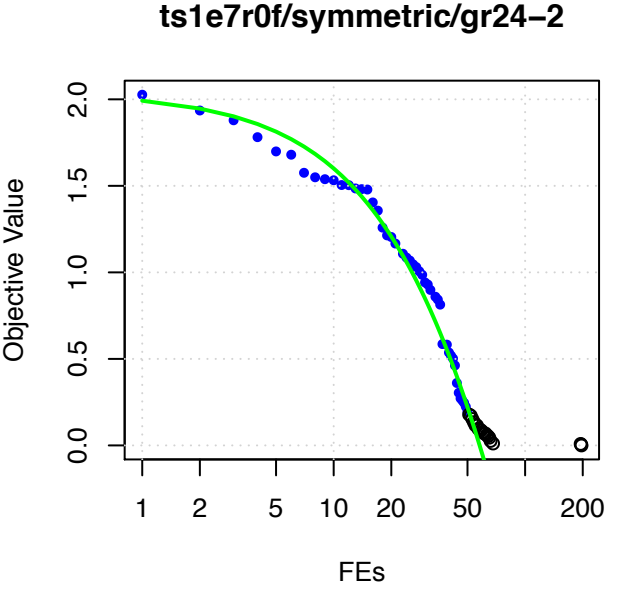
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/gr24−17
Objective Value
0.0
0.5
1.0
1.5
2.0
1
2
5
10
20
50
200
FEs


ts1e7r0f/symmetric/gr24−18
Objective Value
0.0
0.4
0.8
1.2
1
5
50
500
FEs


ts1e7r0f/symmetric/gr24−19
Objective Value
0.0
0.4
0.8
1.2
1
5
50
500
FEs


ts1e7r0f/symmetric/gr24−2
Objective Value
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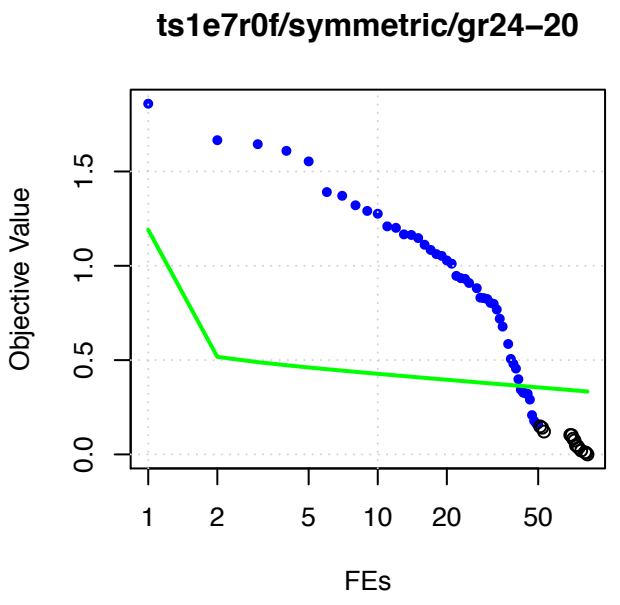
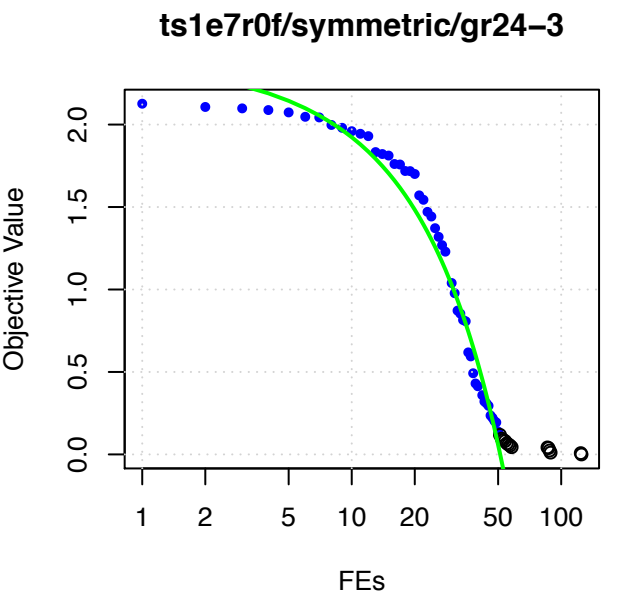
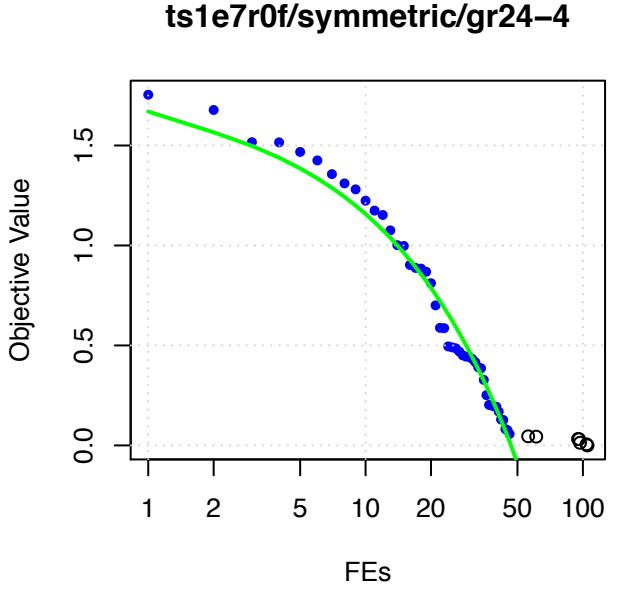
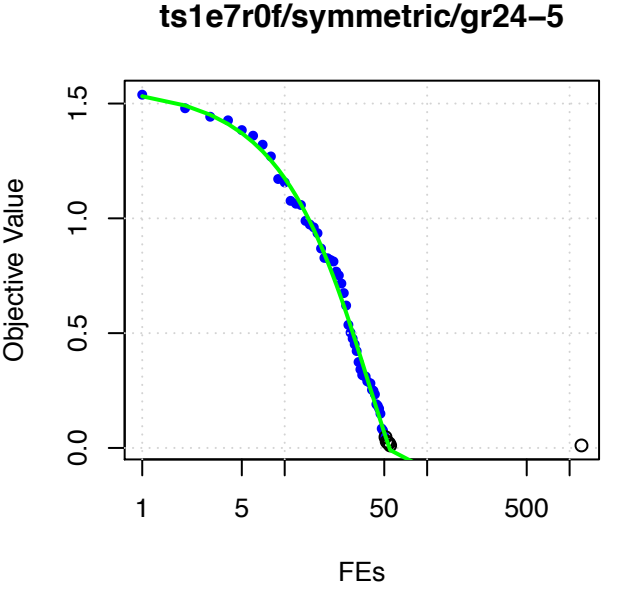
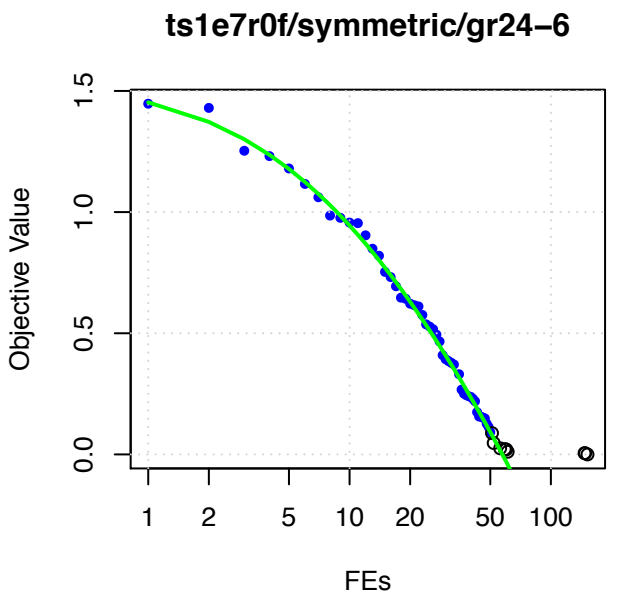
0.5
1.0
1.5
2.0
1
2
5
10
20
50
200
FEs


ts1e7r0f/symmetric/gr24−20
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/gr24−3
Objective Value
0.0
0.5
1.0
1.5
2.0
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/gr24−4
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/gr24−5
Objective Value
0.0
0.5
1.0
1.5
1
5
50
500
FEs


ts1e7r0f/symmetric/gr24−6
Objective Value
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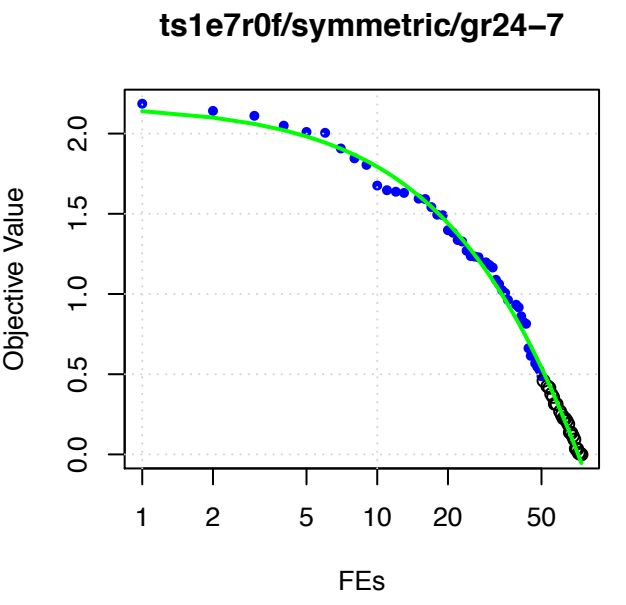
0.5
1.0
1.5
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/gr24−7
Objective Value
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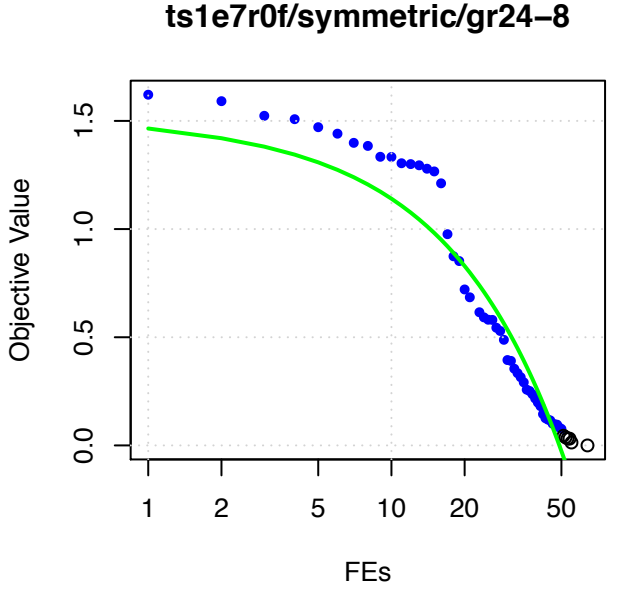
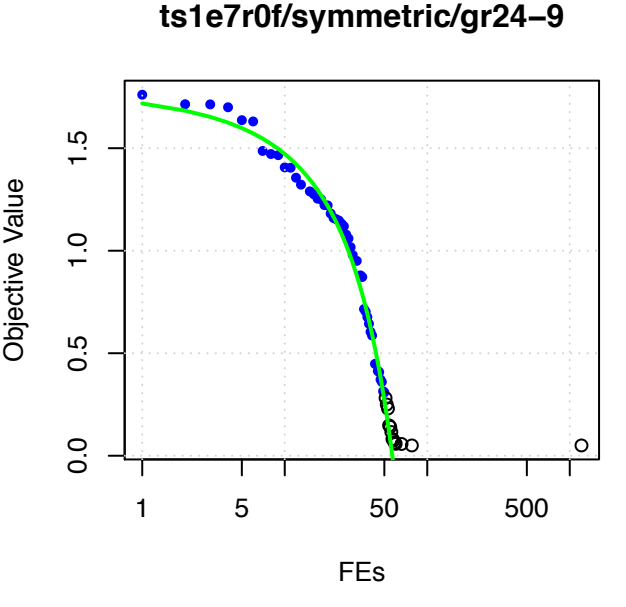
0.5
1.0
1.5
2.0
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/gr24−8
Objective Value
0.0
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/gr24−9
Objective Value
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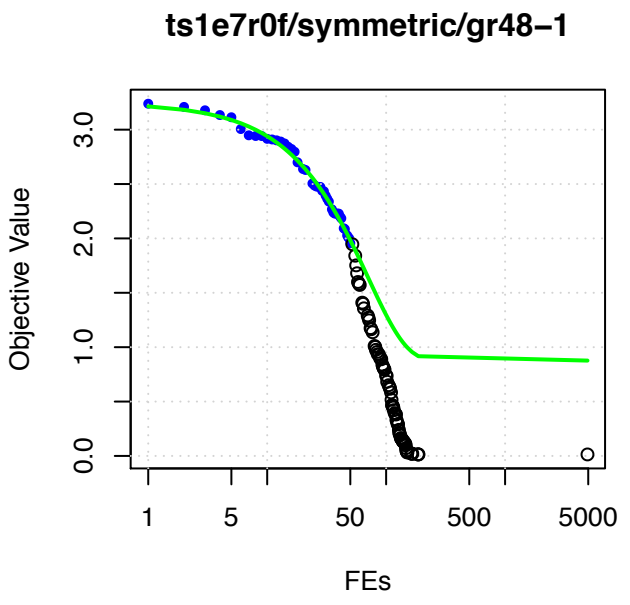
0.5
1.0
1.5
1
5
50
500
FEs


ts1e7r0f/symmetric/gr48−1
Objective Value
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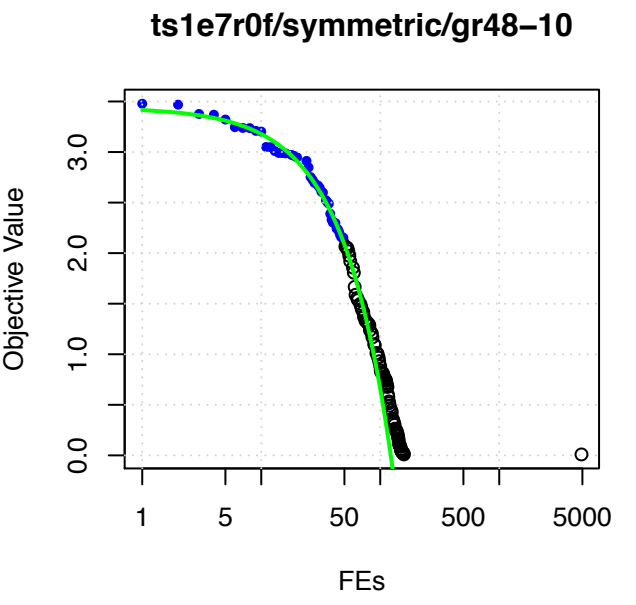
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−10
Objective Value
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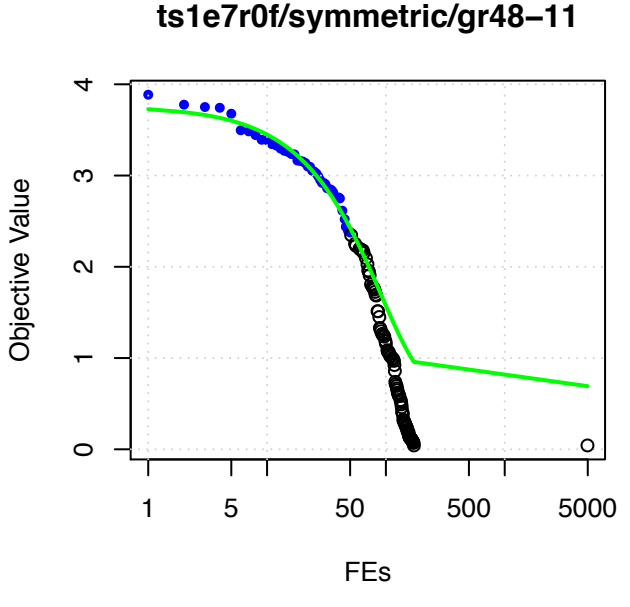
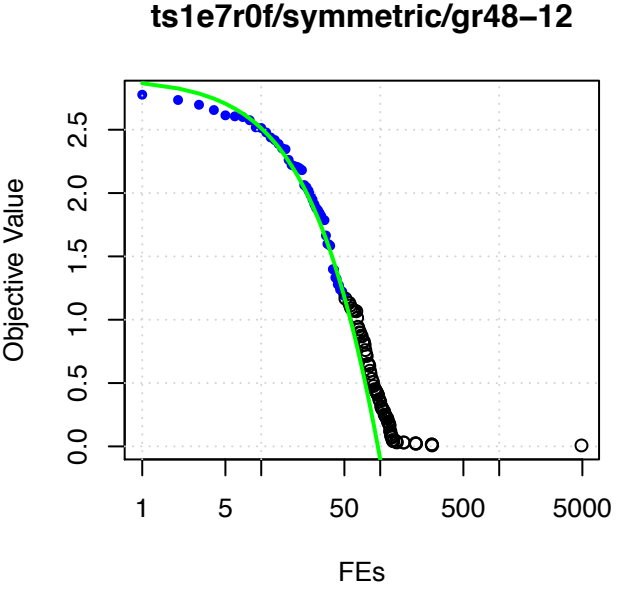
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−11
Objective Value
0
1
2
3
4
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−12
Objective Value
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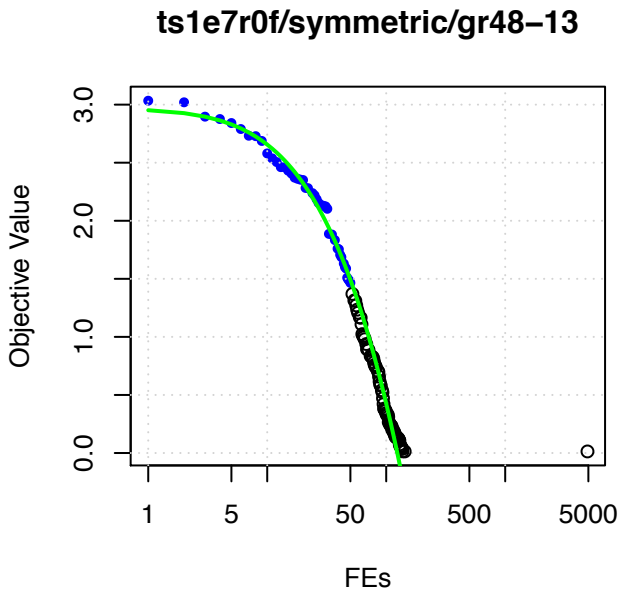
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−13
Objective Value
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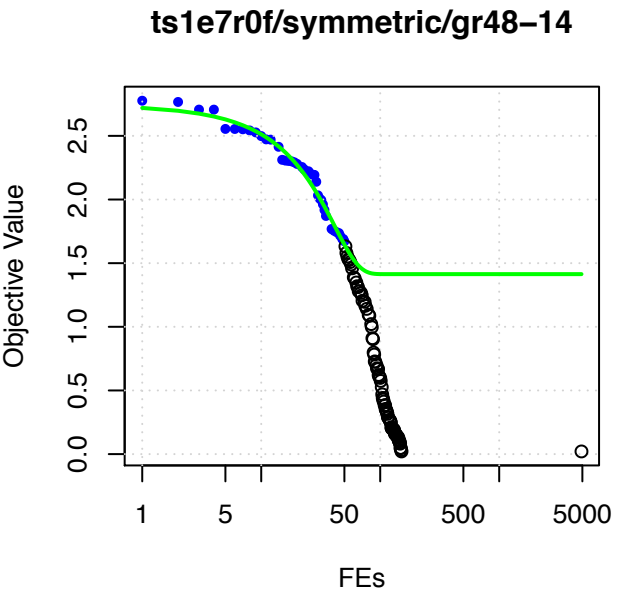
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−14
Objective Value
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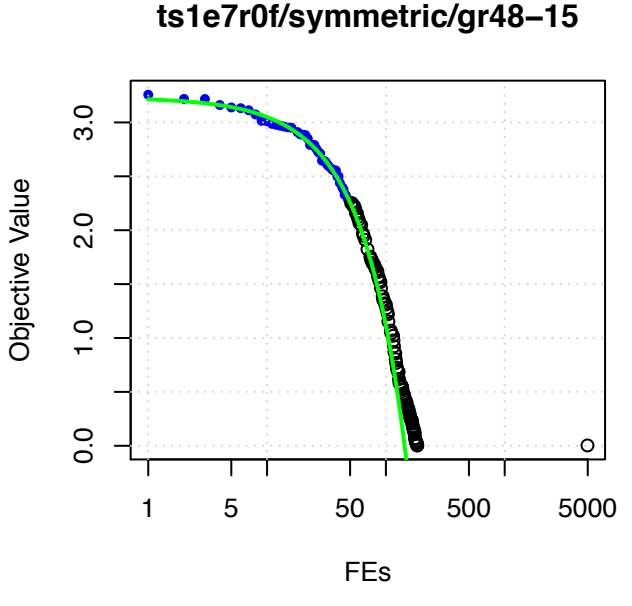
0.5
1.0
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−15
Objective Value
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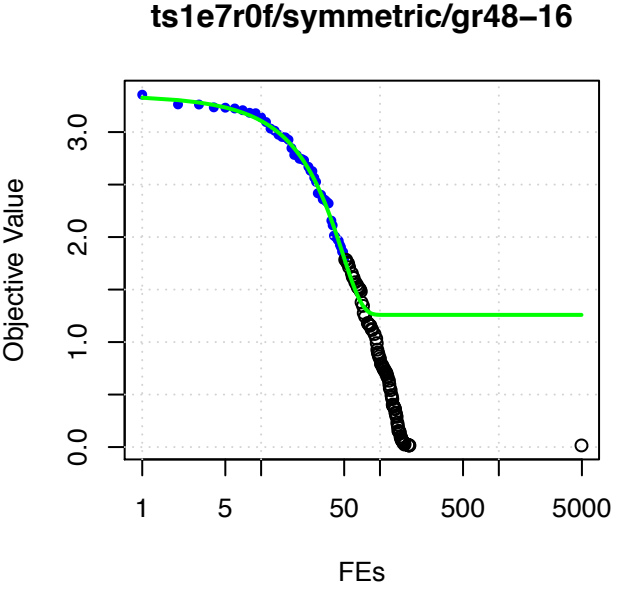
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−16
Objective Value
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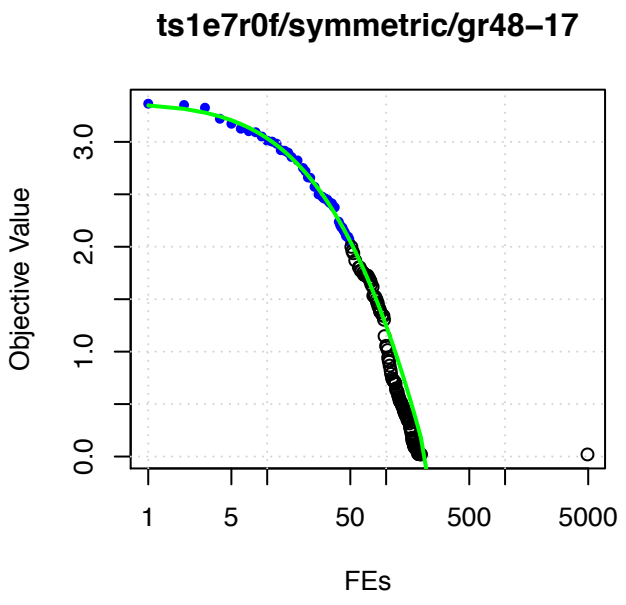
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−17
Objective Value
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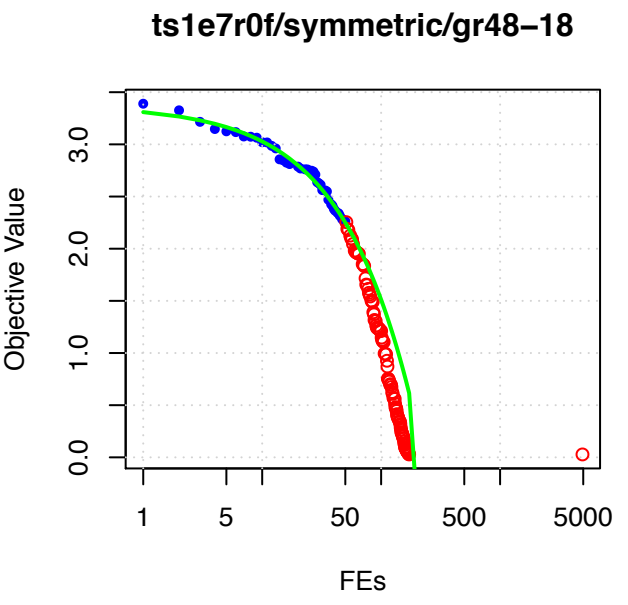
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−18
Objective Value
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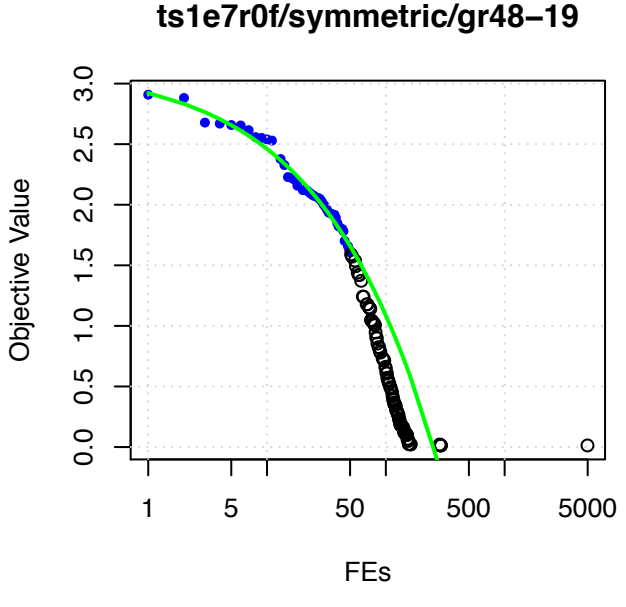
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−19
Objective Value
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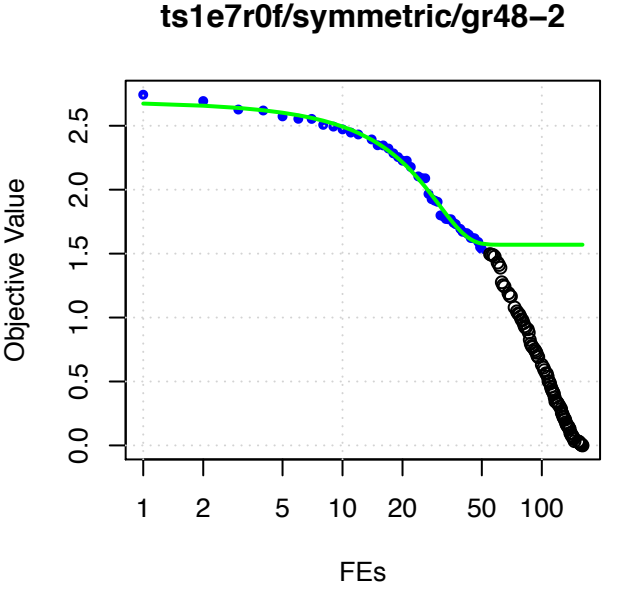
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−2
Objective Value
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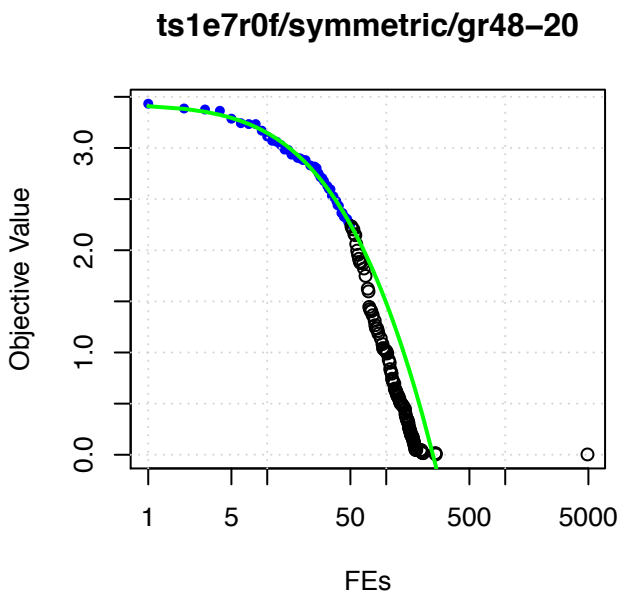
1.0
1.5
2.0
2.5
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/gr48−20
Objective Value
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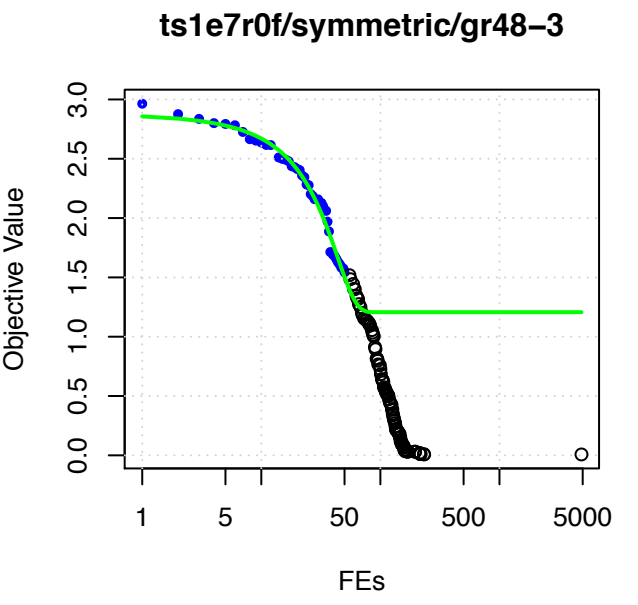
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−3
Objective Value
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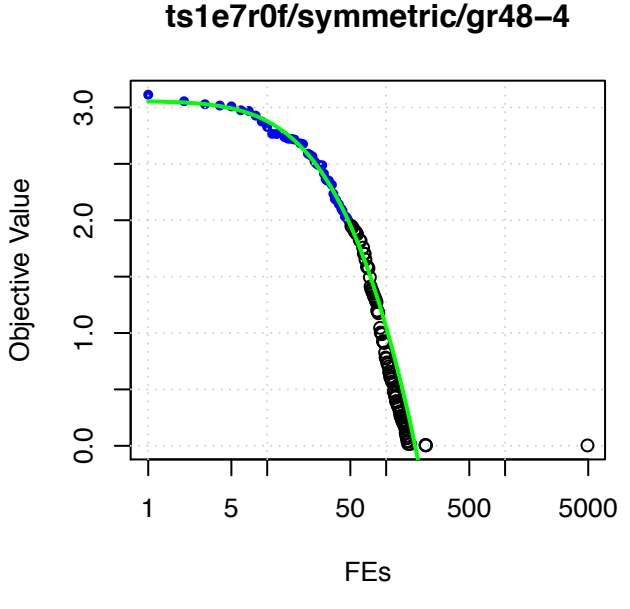
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−4
Objective Value
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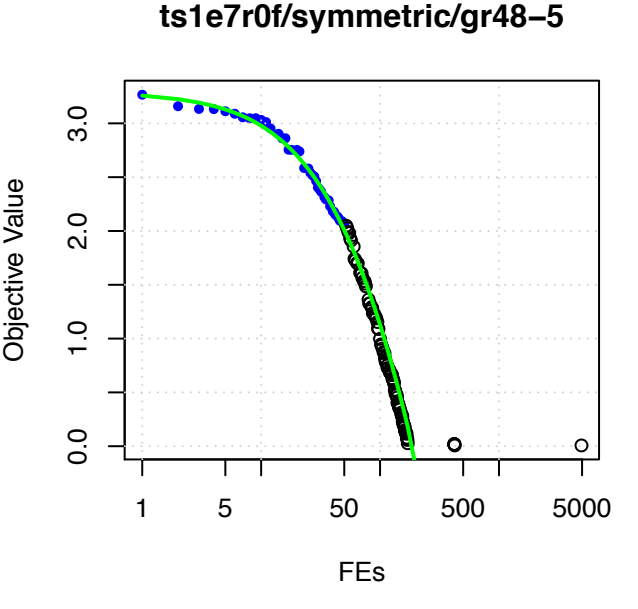
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−5
Objective Value
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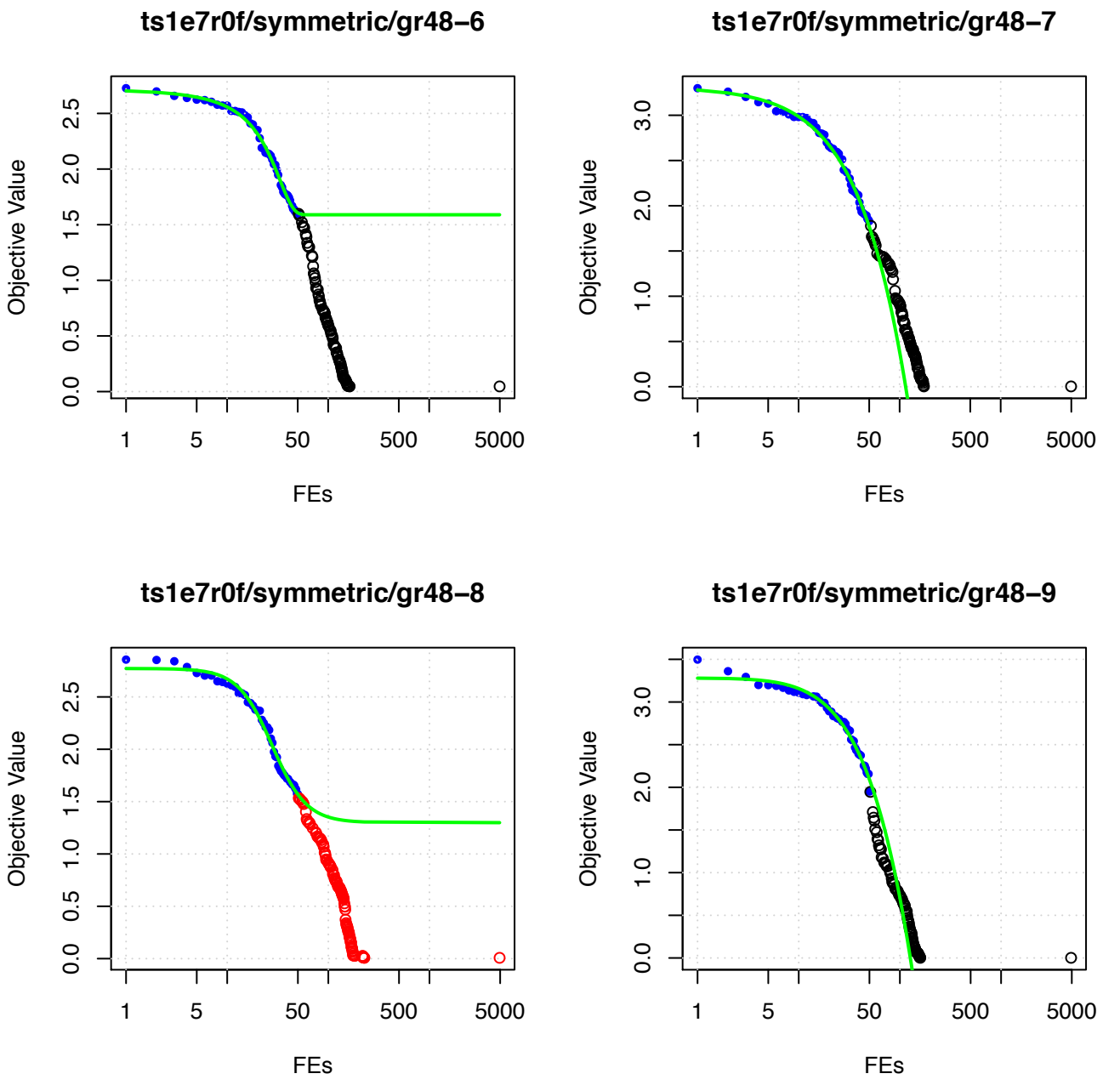
1.0
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/gr48−6
ts1e7r0f/symmetric/gr48−7
ts1e7r0f/symmetric/gr48−8
ts1e7r0f/symmetric/gr48−9
Objective Value
FEs
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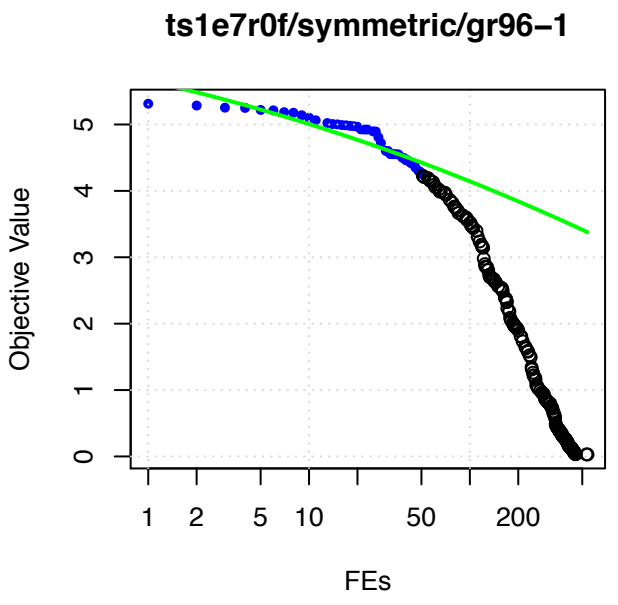
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000


ts1e7r0f/symmetric/gr96−1
Objective Value
FEs
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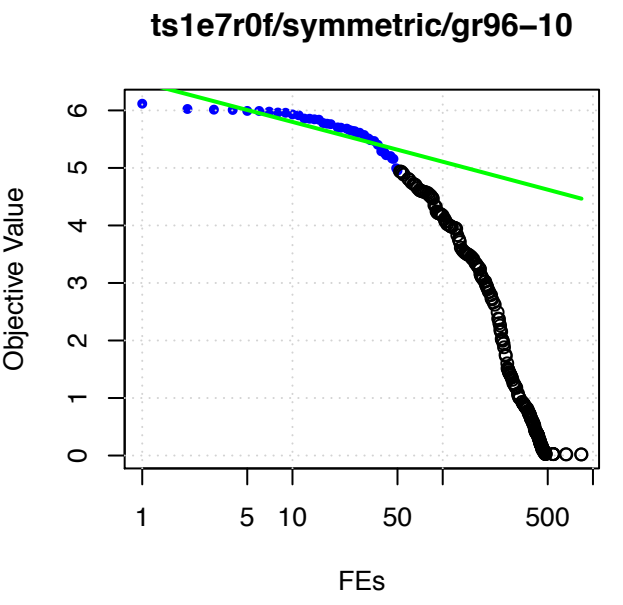
1
2
3
4
5
1
2
5
10
50
200


ts1e7r0f/symmetric/gr96−10
Objective Value
FEs
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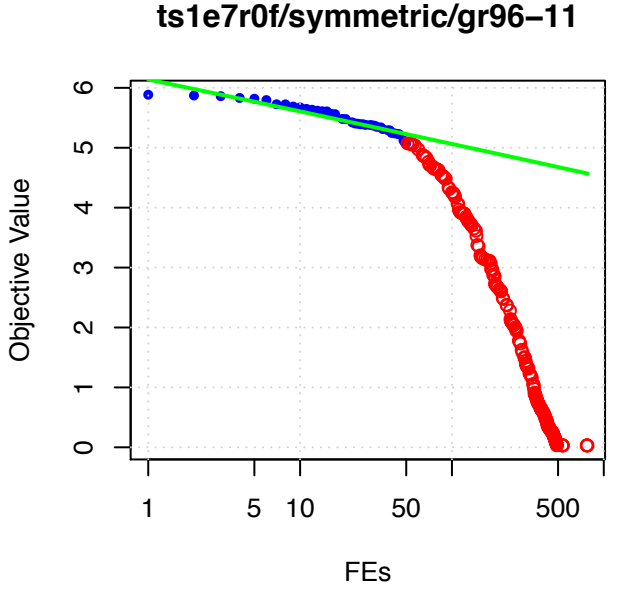
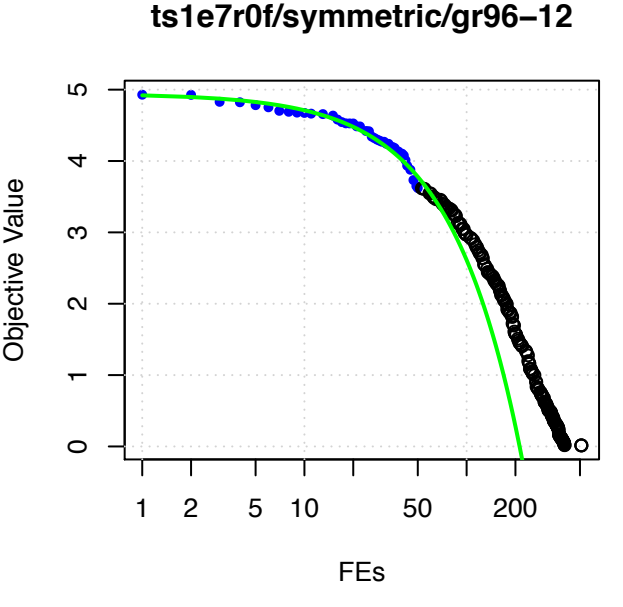
1
2
3
4
5
6
1
5
10
50
500


ts1e7r0f/symmetric/gr96−11
Objective Value
FEs
0
1
2
3
4
5
6
1
5
10
50
500


ts1e7r0f/symmetric/gr96−12
Objective Value
FEs
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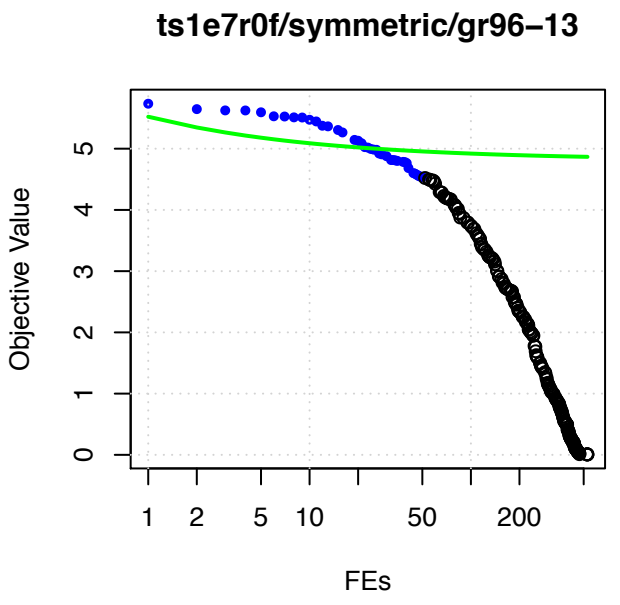
1
2
3
4
5
1
2
5
10
50
200


ts1e7r0f/symmetric/gr96−13
Objective Value
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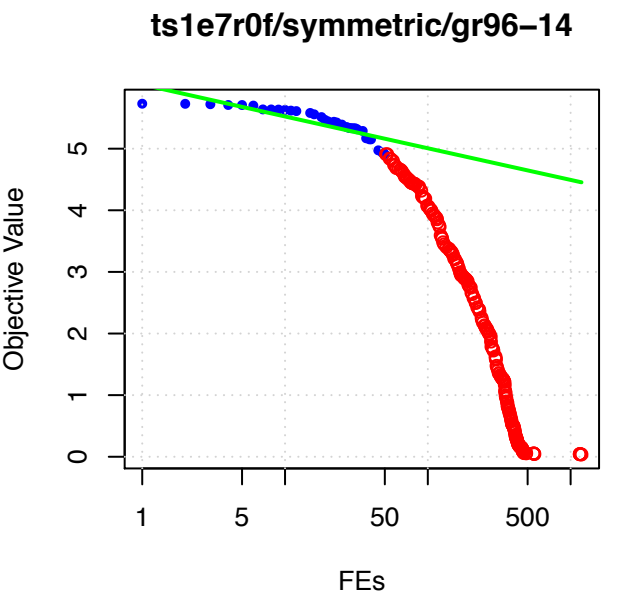
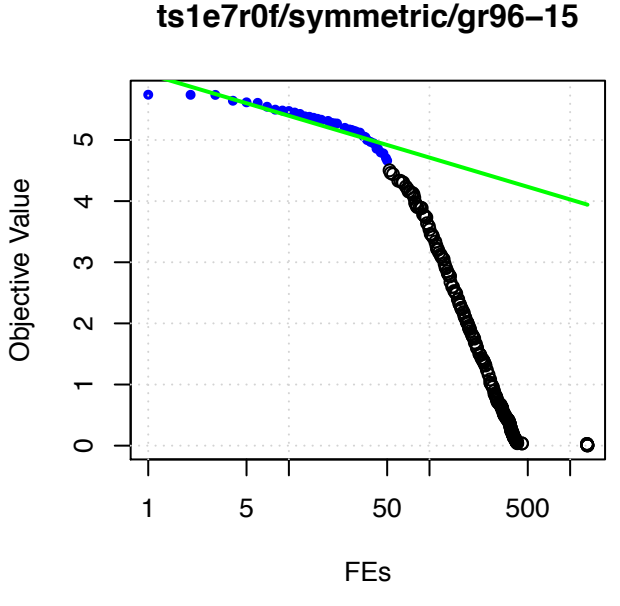
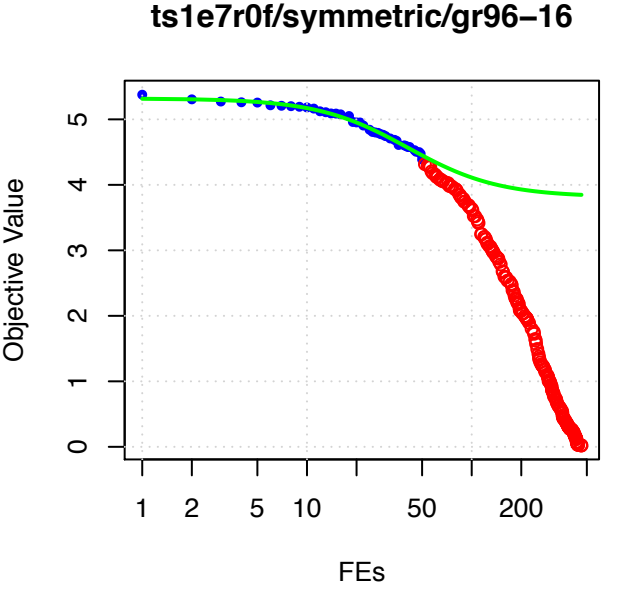
1
2
3
4
5
1
2
5
10
50
200
FEs


ts1e7r0f/symmetric/gr96−14
Objective Value
0
1
2
3
4
5
1
5
50
500
FEs


ts1e7r0f/symmetric/gr96−15
Objective Value
0
1
2
3
4
5
1
5
50
500
FEs


ts1e7r0f/symmetric/gr96−16
Objective Value
0
1
2
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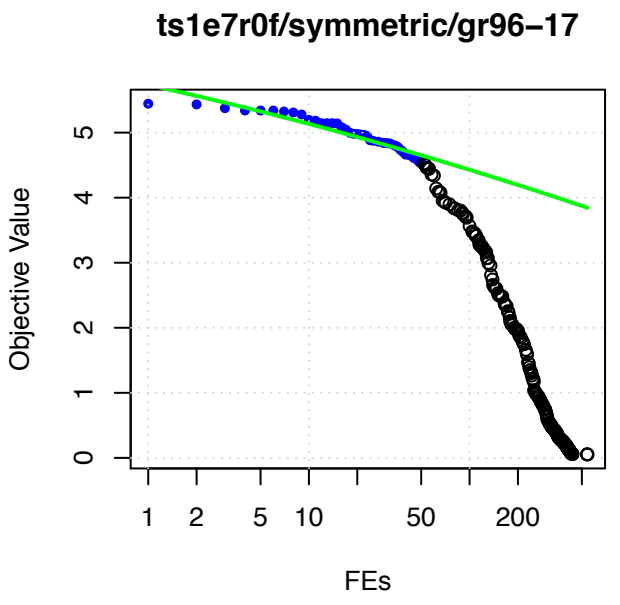
FEs


ts1e7r0f/symmetric/gr96−17
Objective Value
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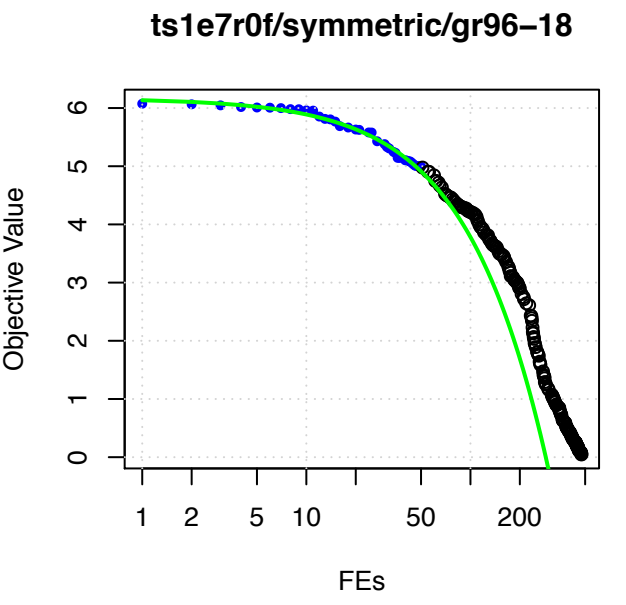
FEs


ts1e7r0f/symmetric/gr96−18
Objective Value
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2
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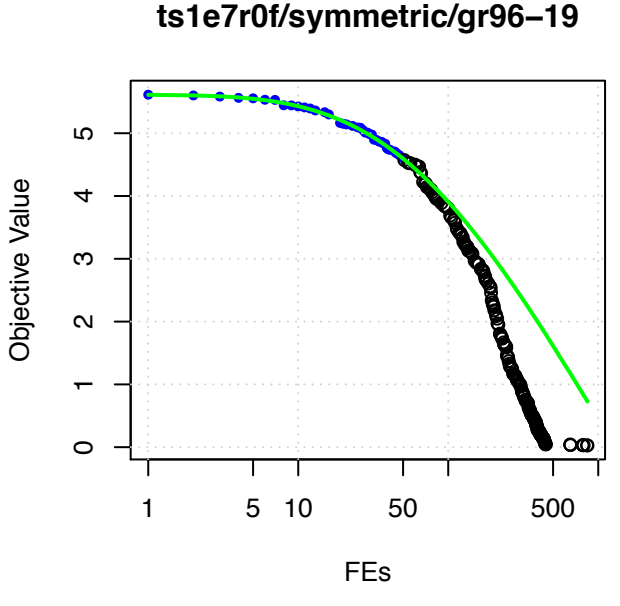
FEs


ts1e7r0f/symmetric/gr96−19
Objective Value
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10
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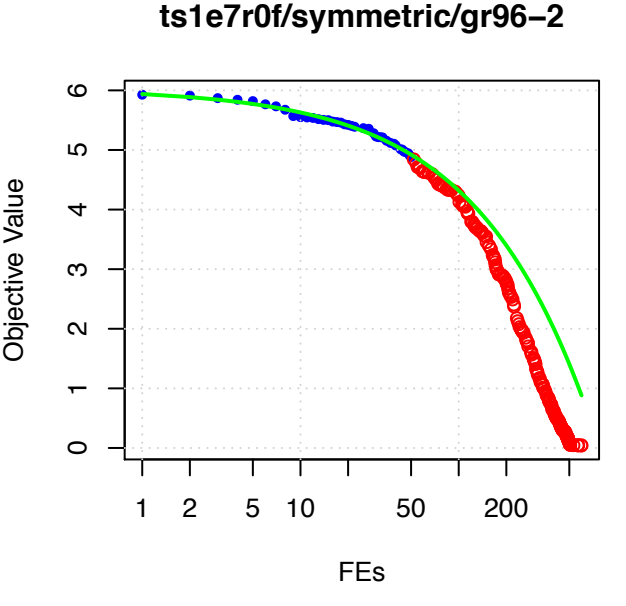
FEs


ts1e7r0f/symmetric/gr96−2
Objective Value
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3
4
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1
2
5
10
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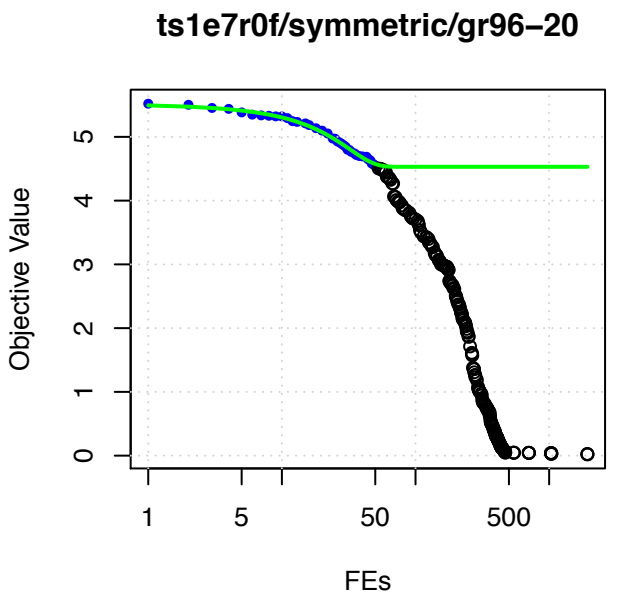
200
FEs


ts1e7r0f/symmetric/gr96−20
Objective Value
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1
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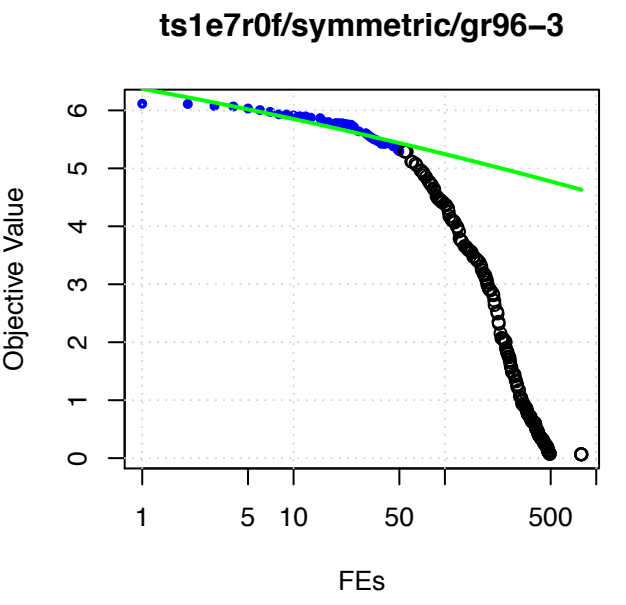
50
500
FEs


ts1e7r0f/symmetric/gr96−3
Objective Value
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2
3
4
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6
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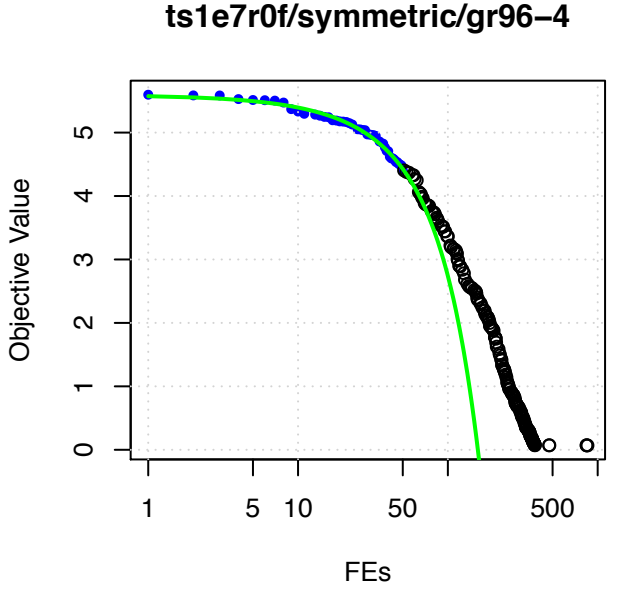
10
50
500
FEs


ts1e7r0f/symmetric/gr96−4
Objective Value
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2
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10
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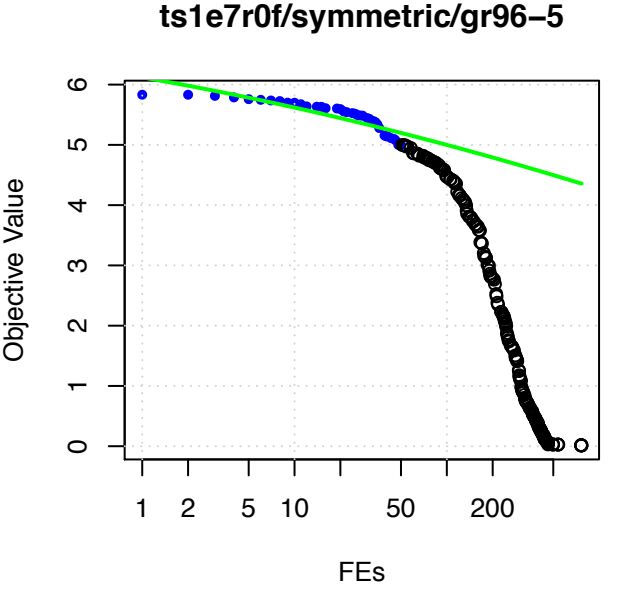
500
FEs


ts1e7r0f/symmetric/gr96−5
Objective Value
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3
4
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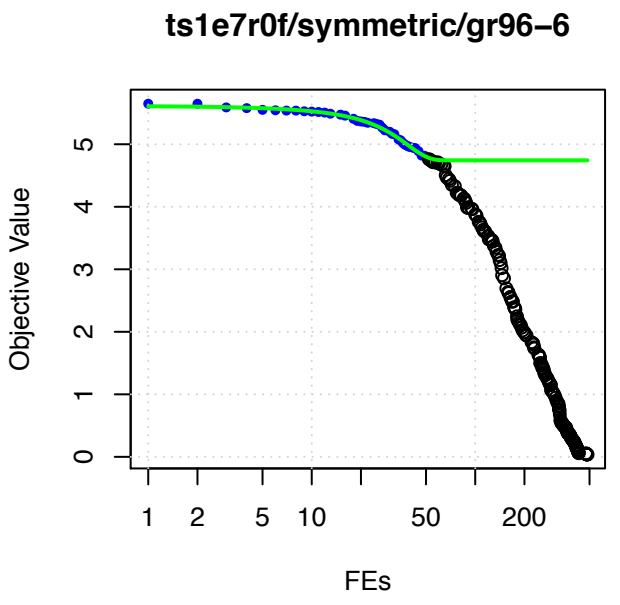
2
5
10
50
200
FEs


ts1e7r0f/symmetric/gr96−6
Objective Value
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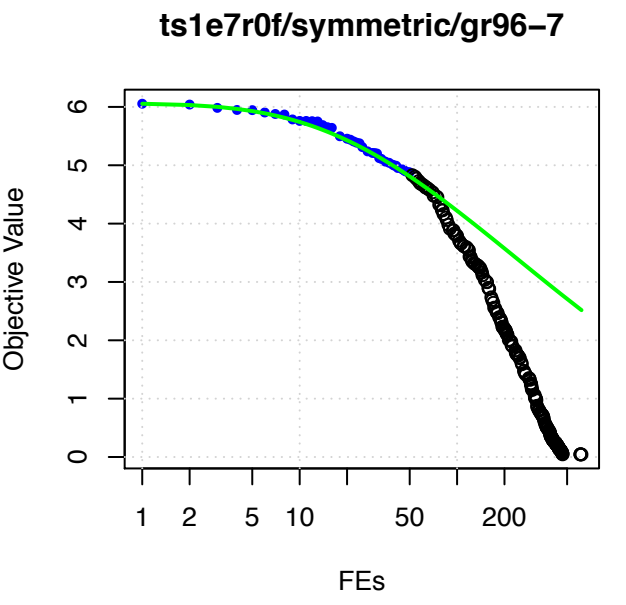
1
2
3
4
5
1
2
5
10
50
200
FEs


ts1e7r0f/symmetric/gr96−7
Objective Value
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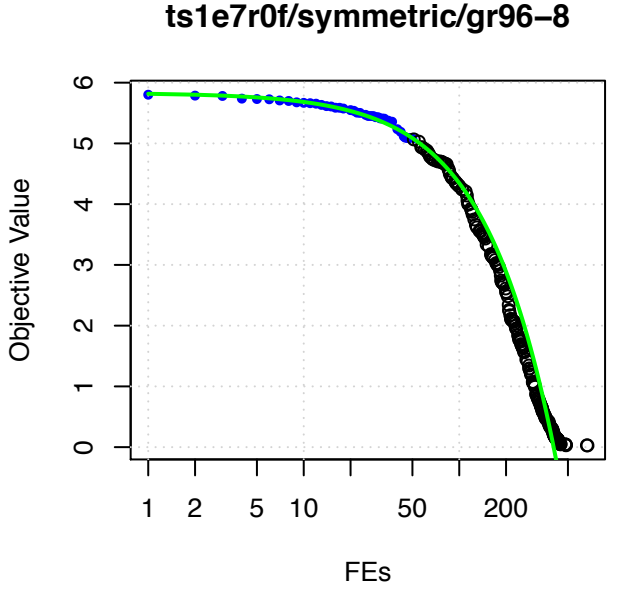
1
2
3
4
5
6
1
2
5
10
50
200
FEs


ts1e7r0f/symmetric/gr96−8
Objective Value
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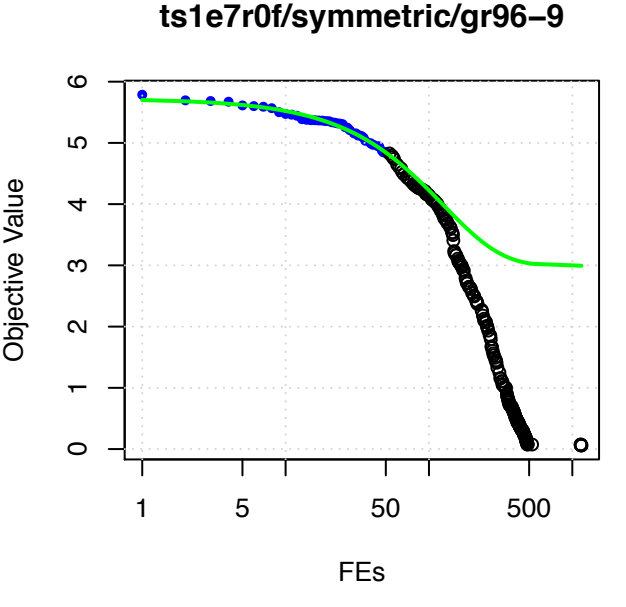
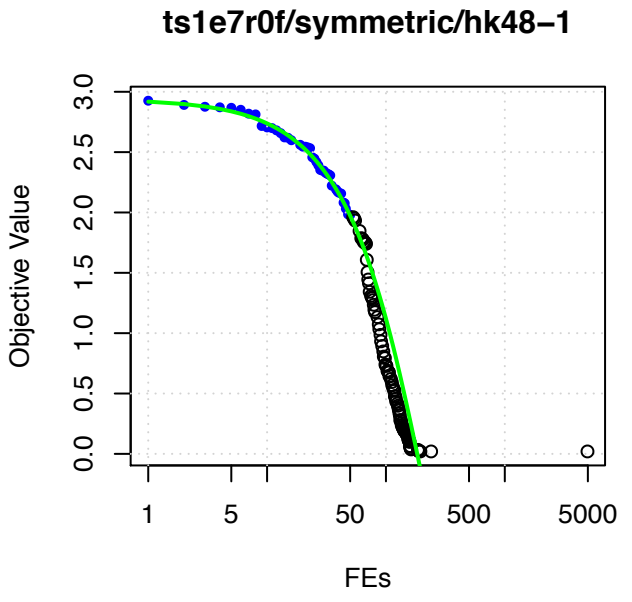
1
2
3
4
5
6
1
2
5
10
50
200
FEs


ts1e7r0f/symmetric/gr96−9
Objective Value
0
1
2
3
4
5
6
1
5
50
500
FEs


ts1e7r0f/symmetric/hk48−1
Objective Value
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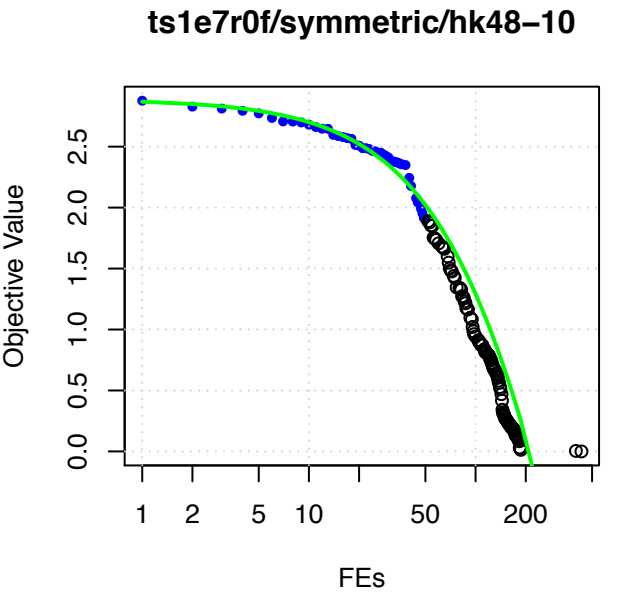
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/hk48−10
Objective Value
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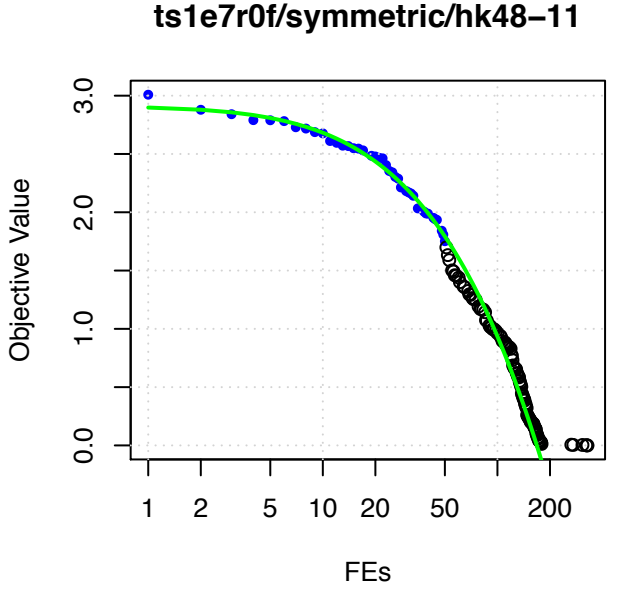
0.5
1.0
1.5
2.0
2.5
1
2
5
10
50
200
FEs


ts1e7r0f/symmetric/hk48−11
Objective Value
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2.0
3.0
1
2
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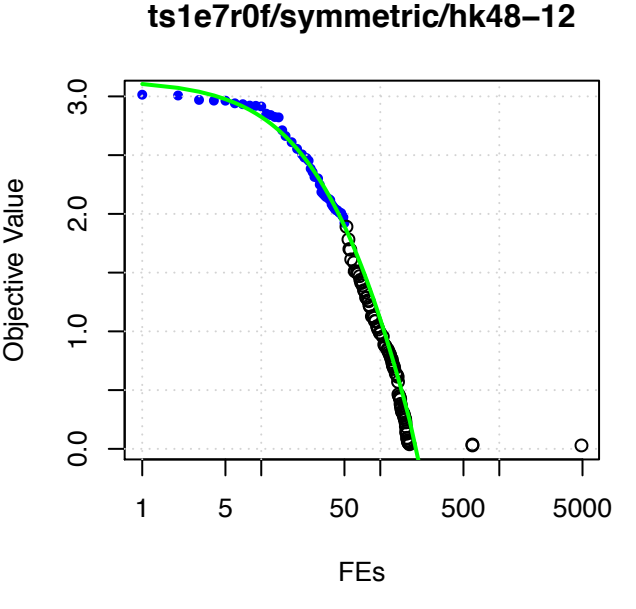
10
20
50
200
FEs


ts1e7r0f/symmetric/hk48−12
Objective Value
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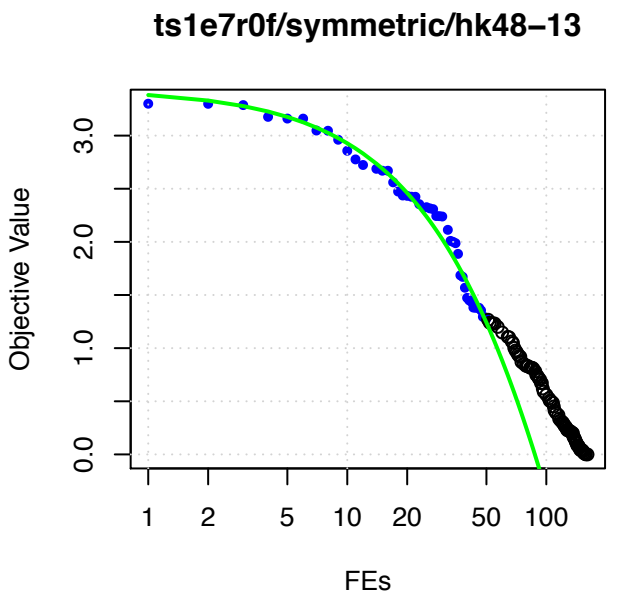
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/hk48−13
Objective Value
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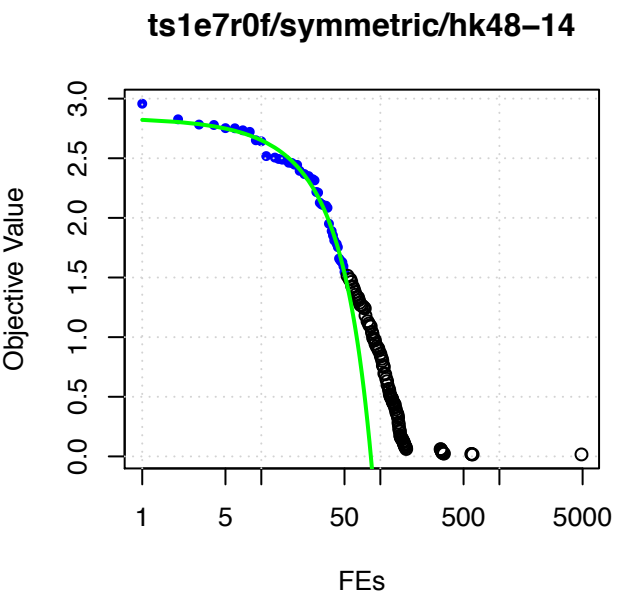
2.0
3.0
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/hk48−14
Objective Value
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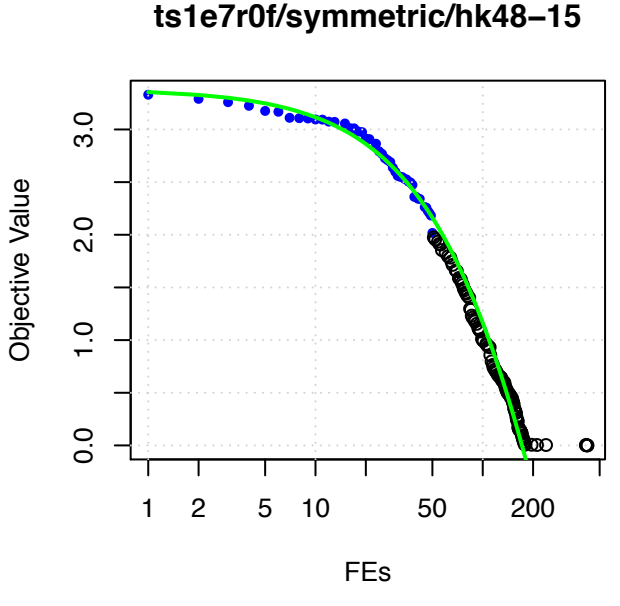
1.0
1.5
2.0
2.5
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/hk48−15
Objective Value
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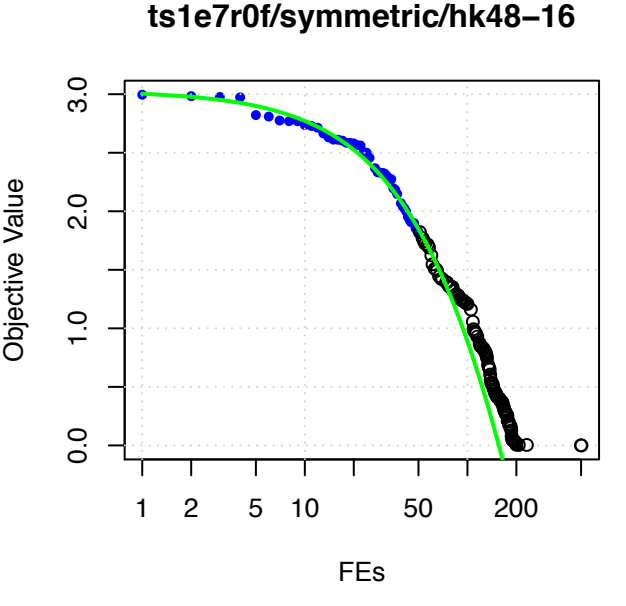
1.0
2.0
3.0
1
2
5
10
50
200
FEs


ts1e7r0f/symmetric/hk48−16
Objective Value
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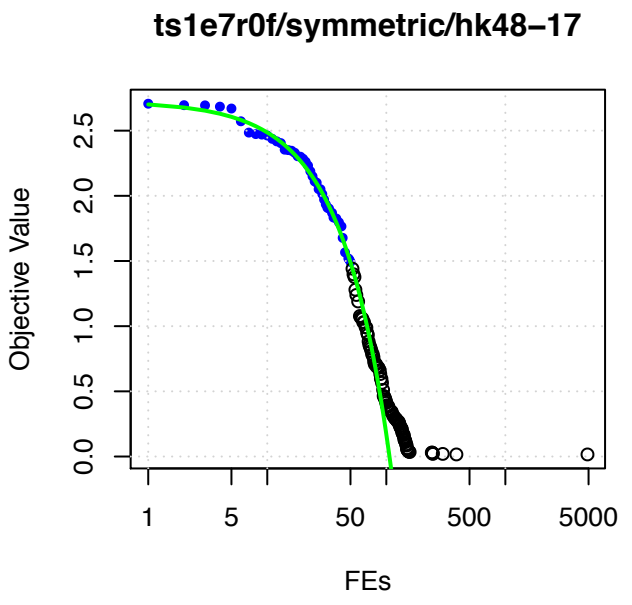
1.0
2.0
3.0
1
2
5
10
50
200
FEs


ts1e7r0f/symmetric/hk48−17
Objective Value
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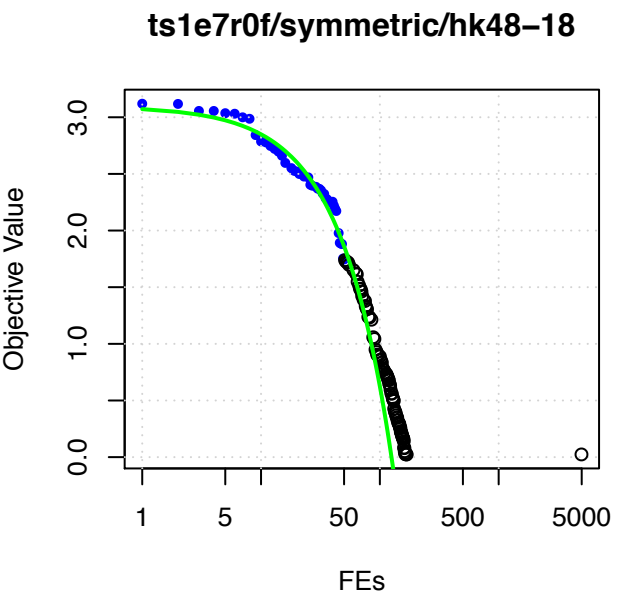
1.5
2.0
2.5
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/hk48−18
Objective Value
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2.0
3.0
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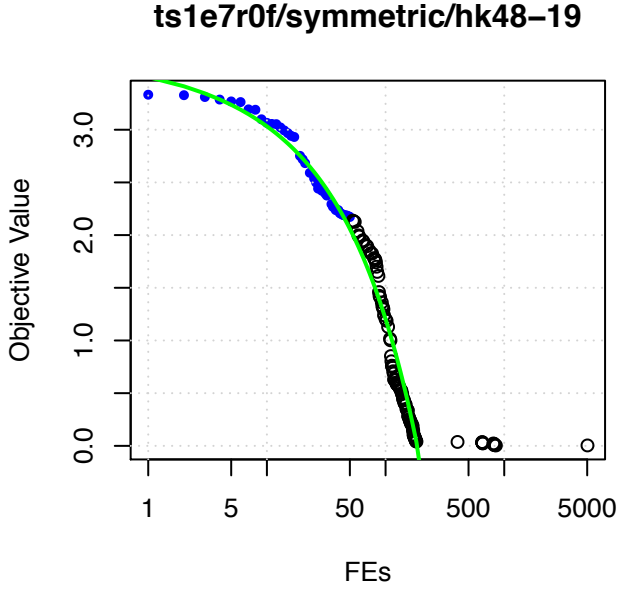
50
500
5000
FEs


ts1e7r0f/symmetric/hk48−19
Objective Value
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2.0
3.0
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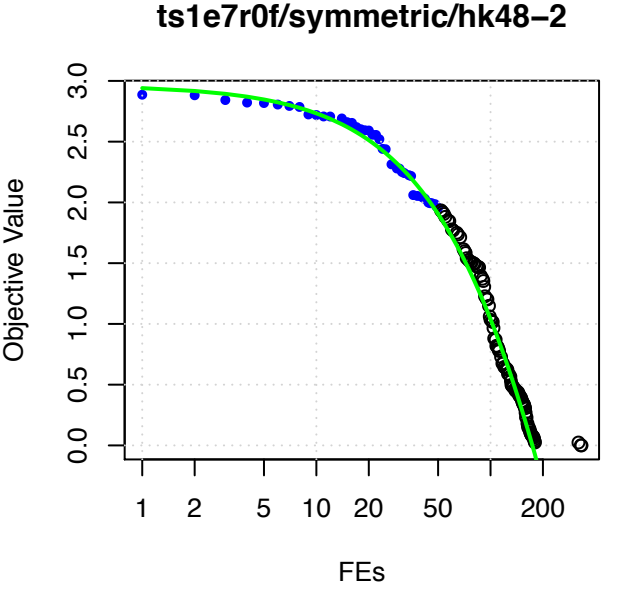
5
50
500
5000
FEs


ts1e7r0f/symmetric/hk48−2
Objective Value
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1.5
2.0
2.5
3.0
1
2
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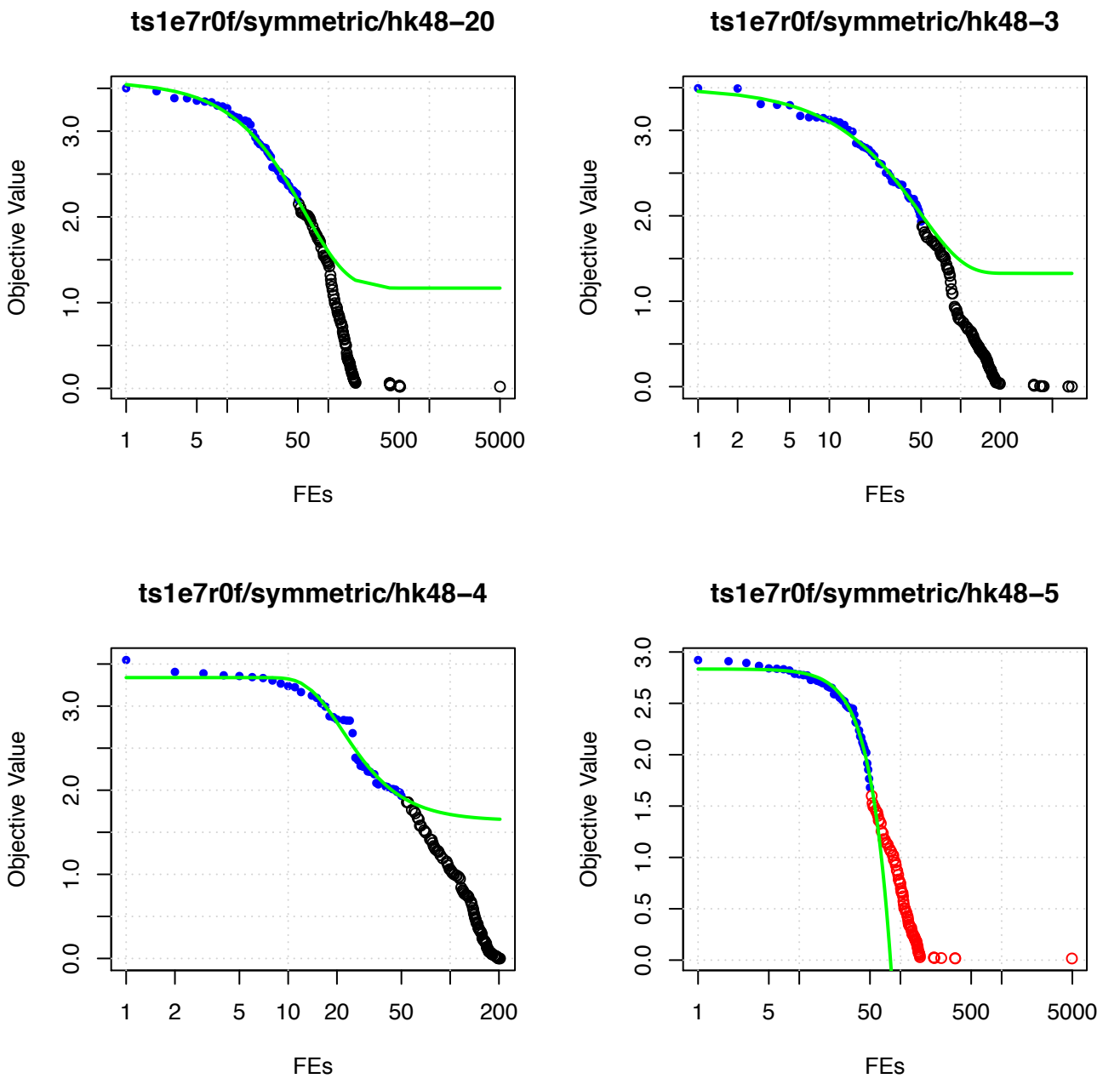
20
50
200
FEs


ts1e7r0f/symmetric/hk48−20
Objective Value
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1.0
2.0
3.0
1
5
50
500
5000
FEs
ts1e7r0f/symmetric/hk48−3
Objective Value
0.0
1.0
2.0
3.0
1
2
5
10
50
200
FEs
ts1e7r0f/symmetric/hk48−4
Objective Value
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1.0
2.0
3.0
1
2
5
10
20
50
200
FEs
ts1e7r0f/symmetric/hk48−5
Objective Value
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1.0
1.5
2.0
2.5
3.0
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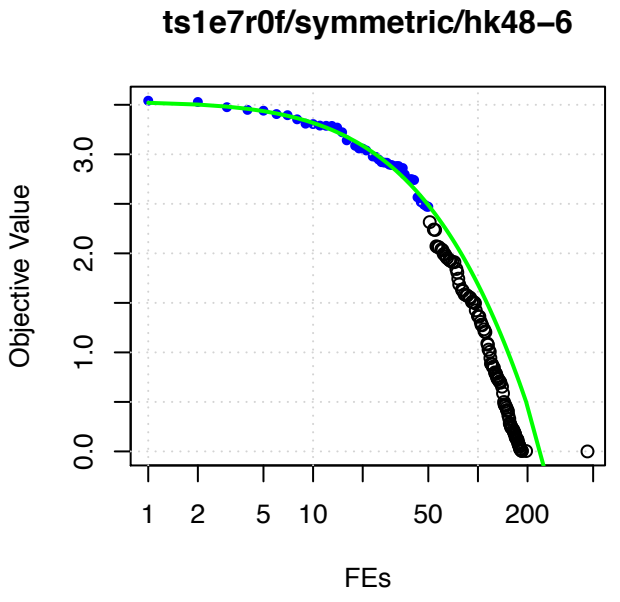
50
500
5000
FEs


ts1e7r0f/symmetric/hk48−6
Objective Value
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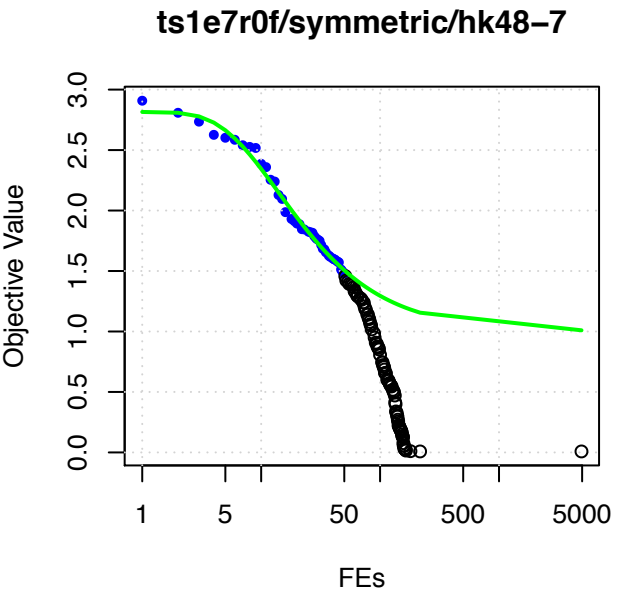
200
FEs


ts1e7r0f/symmetric/hk48−7
Objective Value
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2.5
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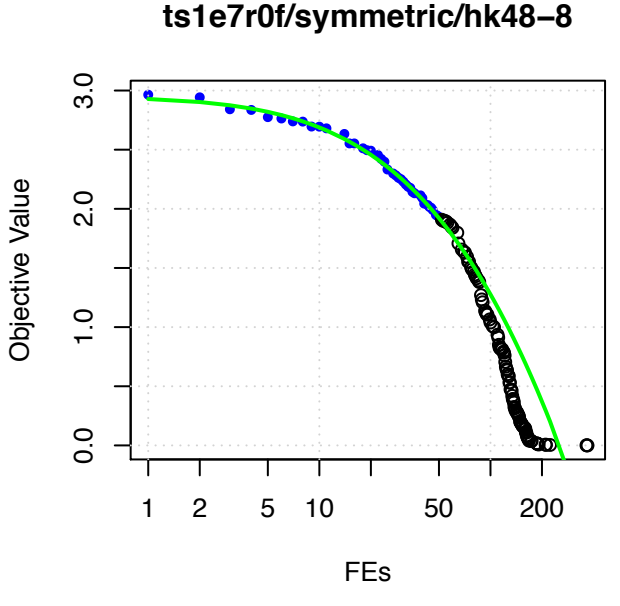
5000
FEs


ts1e7r0f/symmetric/hk48−8
Objective Value
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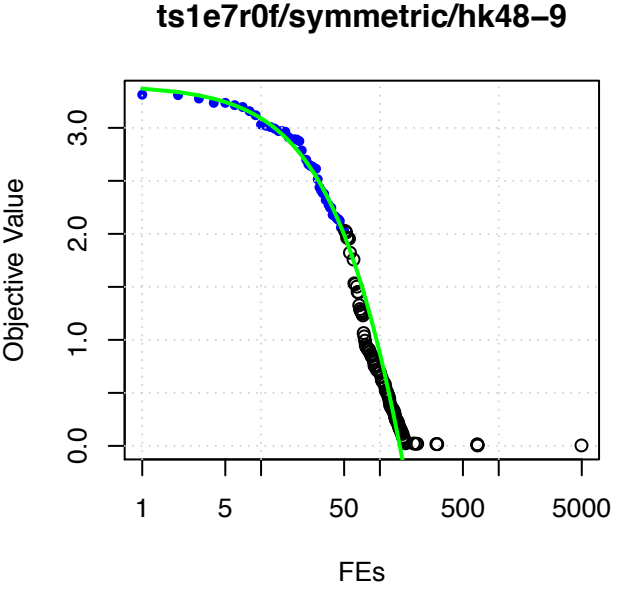
10
50
200
FEs


ts1e7r0f/symmetric/hk48−9
Objective Value
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3.0
1
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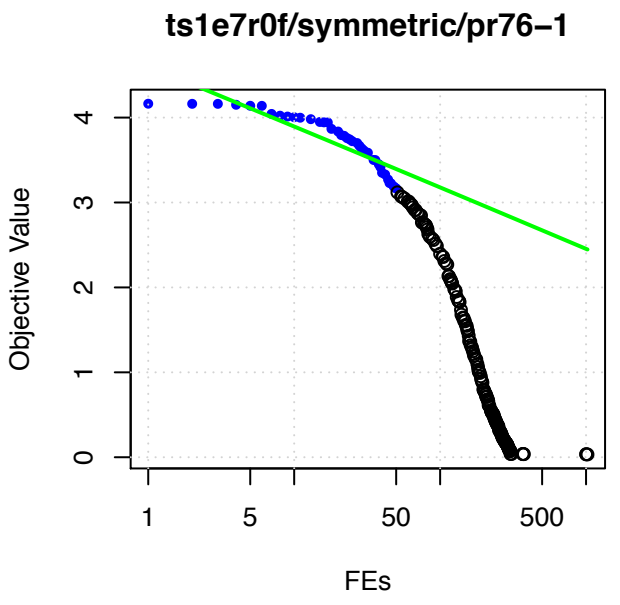
50
500
5000
FEs


ts1e7r0f/symmetric/pr76−1
Objective Value
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3
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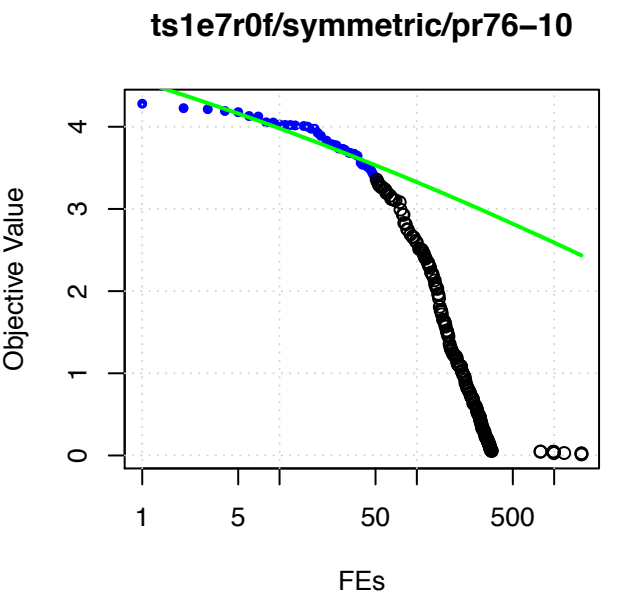
1
5
50
500
FEs


ts1e7r0f/symmetric/pr76−10
Objective Value
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1
5
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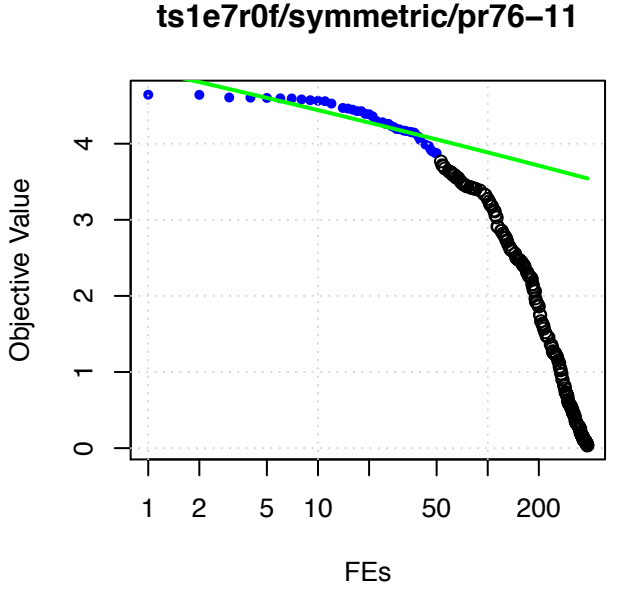
500
FEs


ts1e7r0f/symmetric/pr76−11
Objective Value
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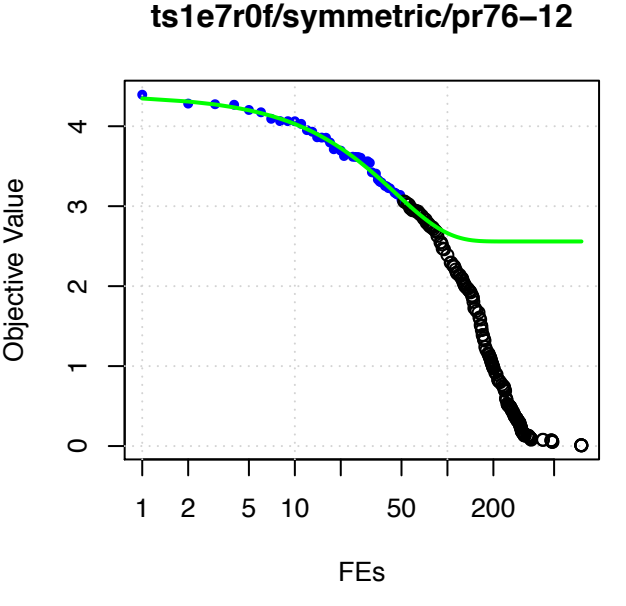
2
3
4
1
2
5
10
50
200
FEs


ts1e7r0f/symmetric/pr76−12
Objective Value
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2
5
10
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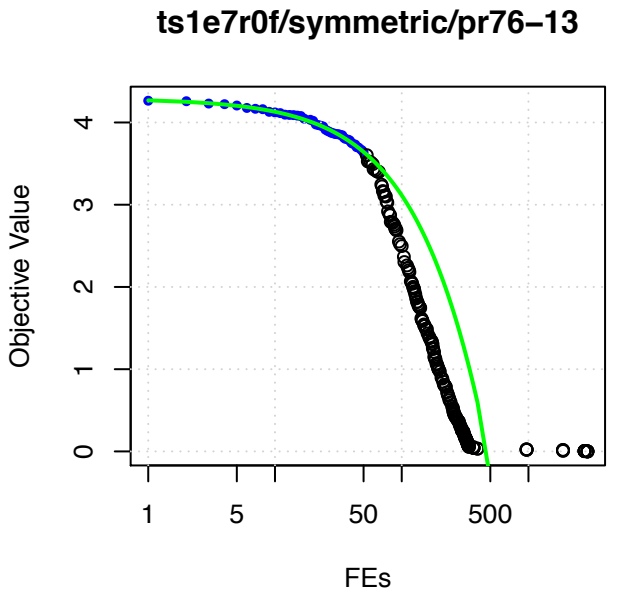
200
FEs


ts1e7r0f/symmetric/pr76−13
Objective Value
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2
3
4
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5
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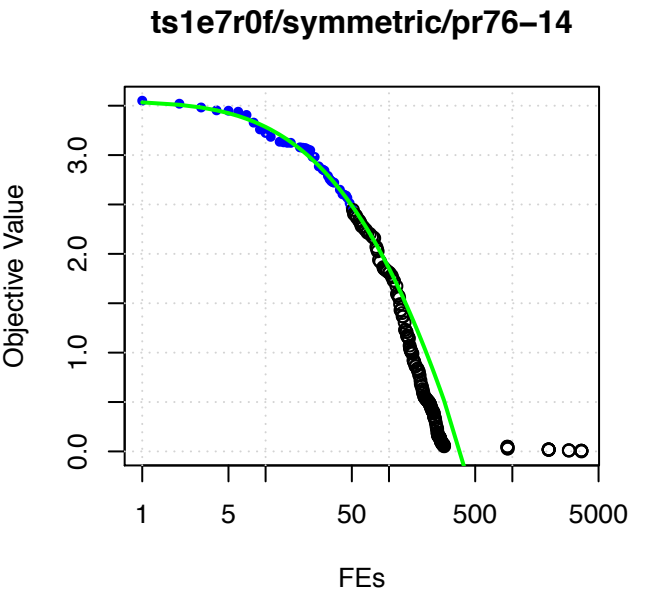
500
FEs


ts1e7r0f/symmetric/pr76−14
Objective Value
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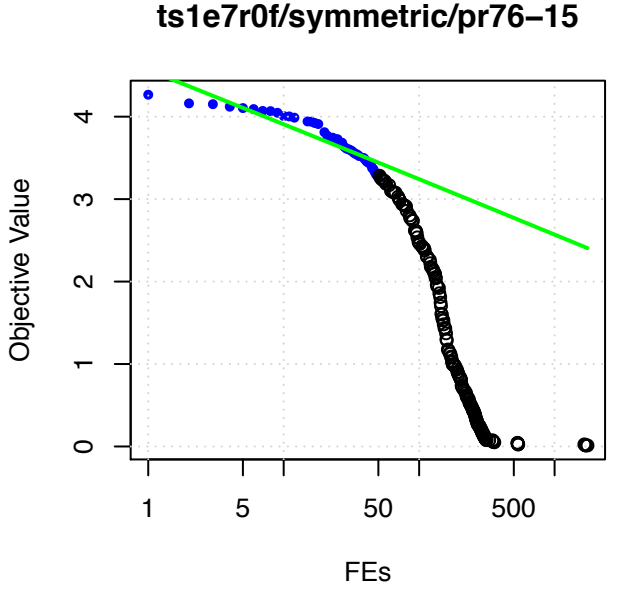
2.0
3.0
1
5
50
500
5000
FEs


ts1e7r0f/symmetric/pr76−15
Objective Value
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4
1
5
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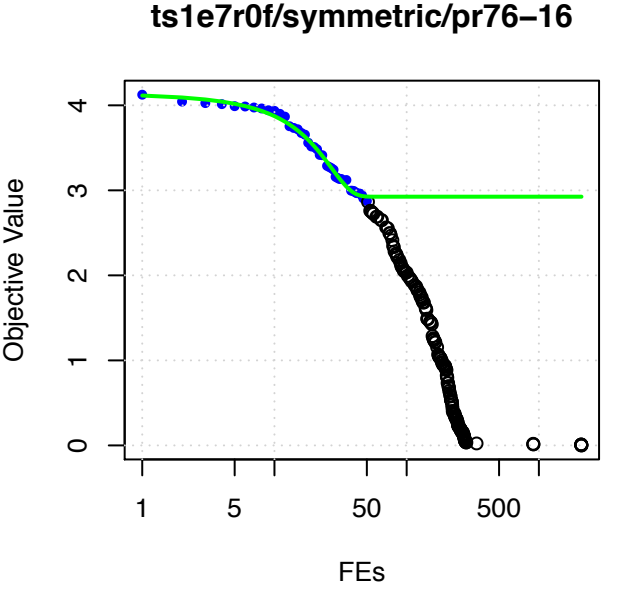
500
FEs


ts1e7r0f/symmetric/pr76−16
Objective Value
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2
3
4
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5
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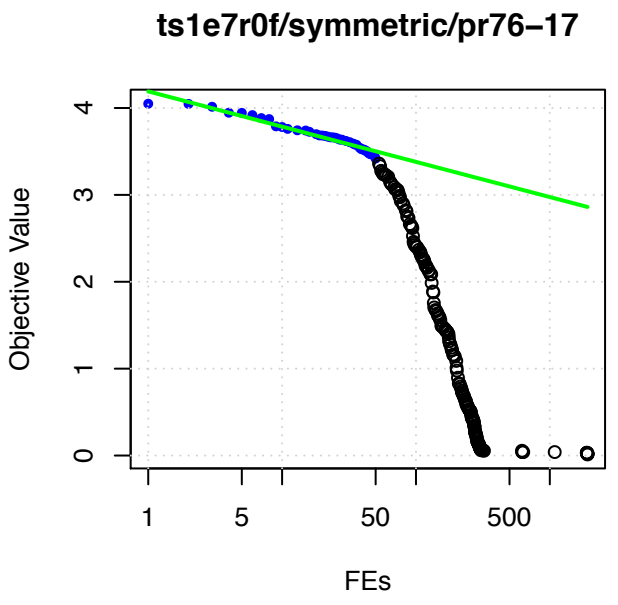
500
FEs


ts1e7r0f/symmetric/pr76−17
Objective Value
FEs
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2
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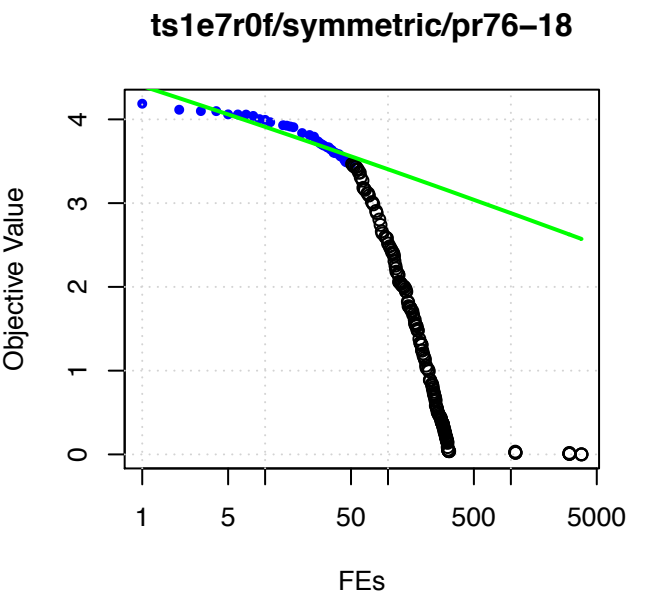
1
5
50
500


ts1e7r0f/symmetric/pr76−18
Objective Value
FEs
0
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2
3
4
1
5
50
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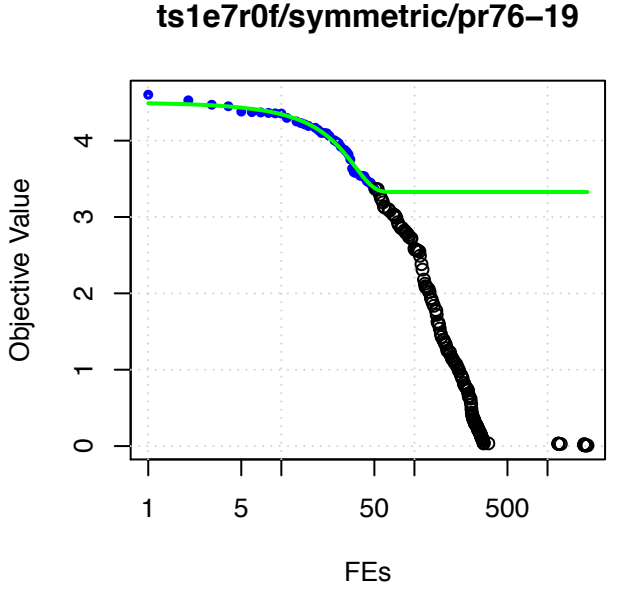
ts1e7r0f/symmetric/pr76−19
Objective Value
FEs
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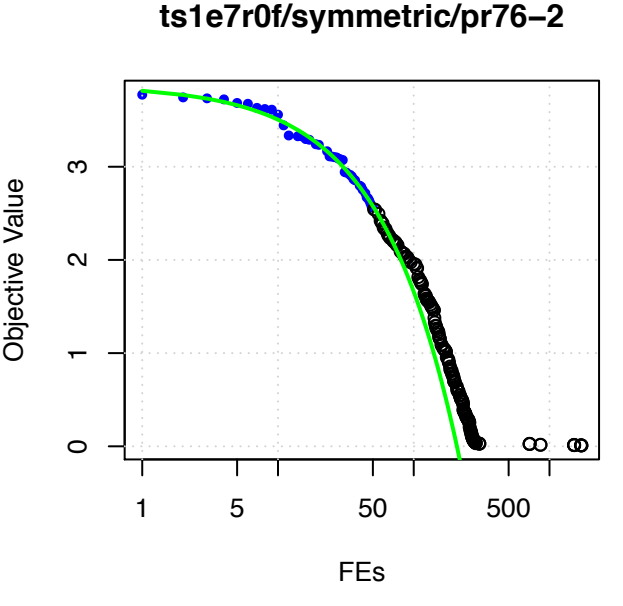
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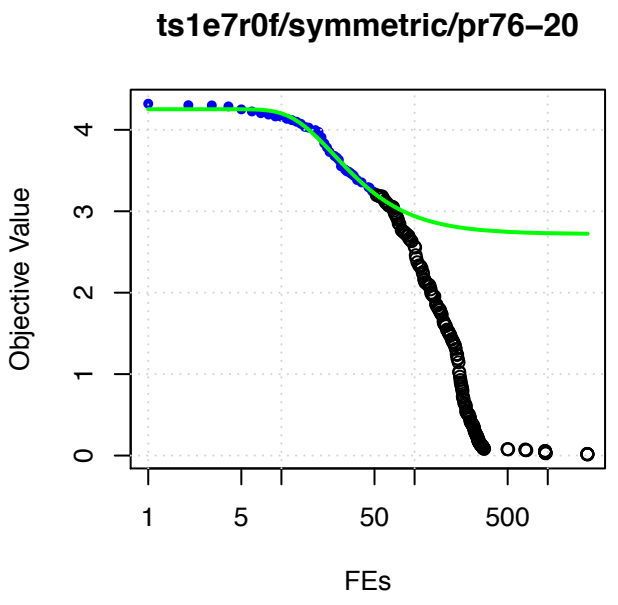
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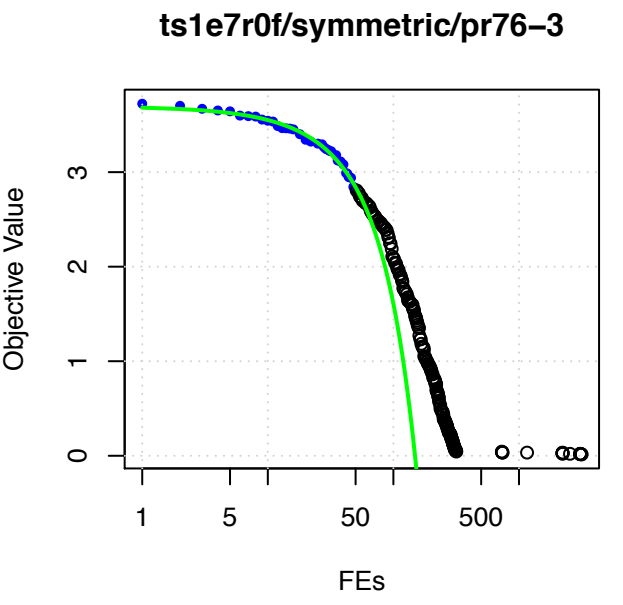
FEs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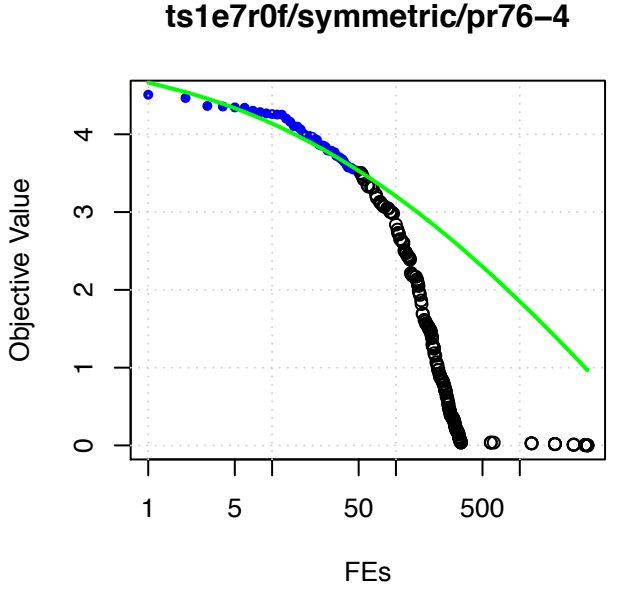
FEs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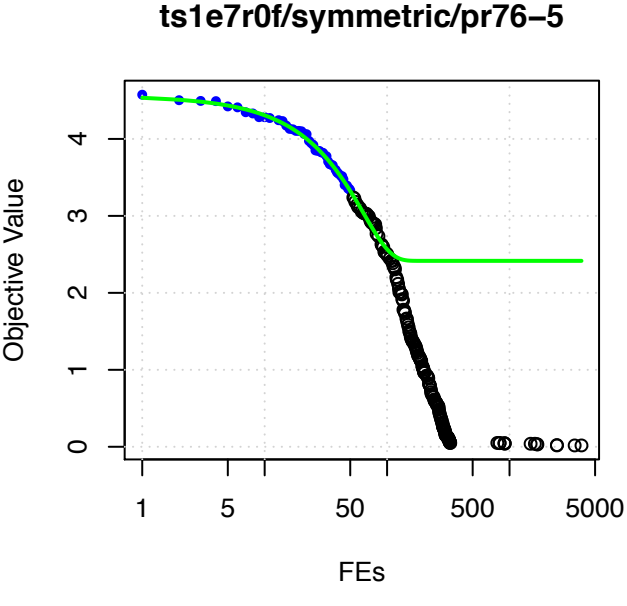
FEs


ts1e7r0f/symmetric/pr76−5
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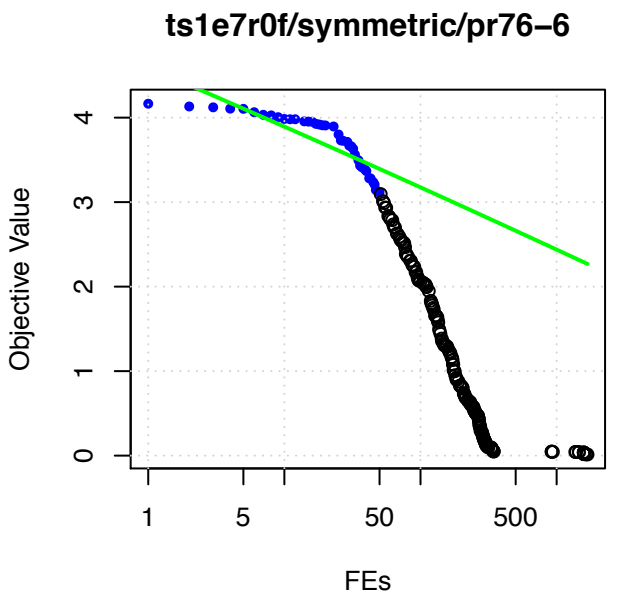
FEs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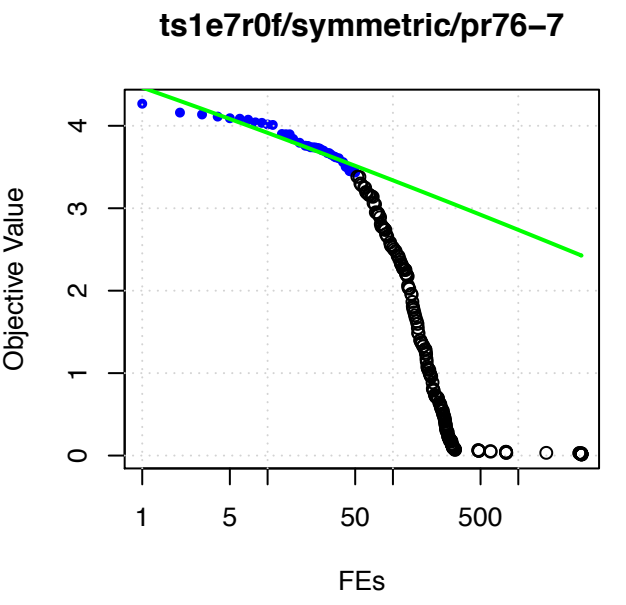
FEs


ts1e7r0f/symmetric/pr76−7
Objective Value
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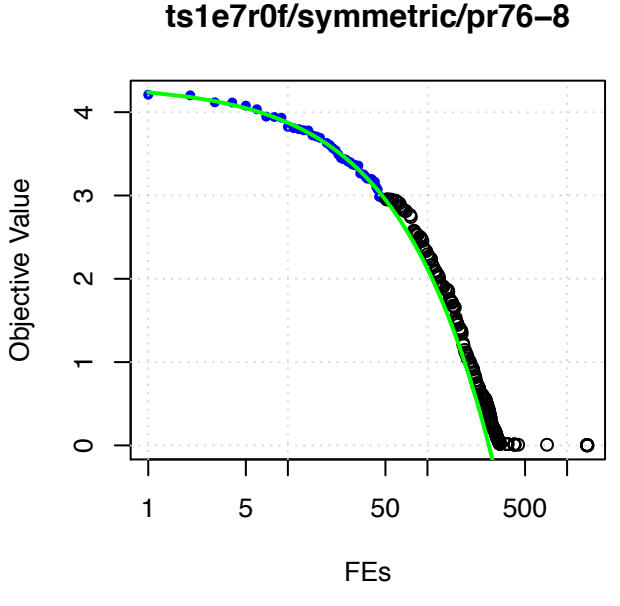
FEs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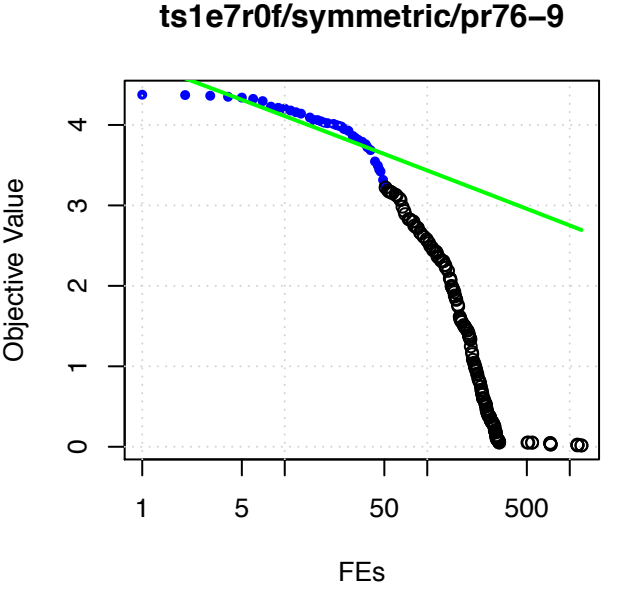
FEs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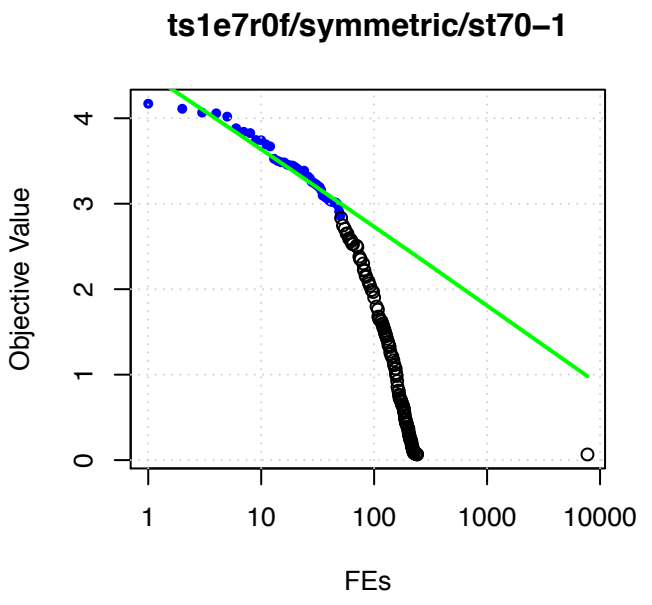
FEs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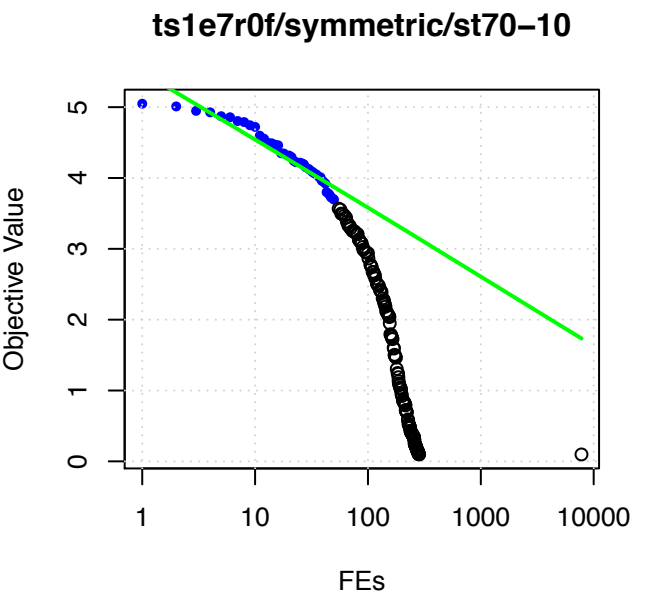
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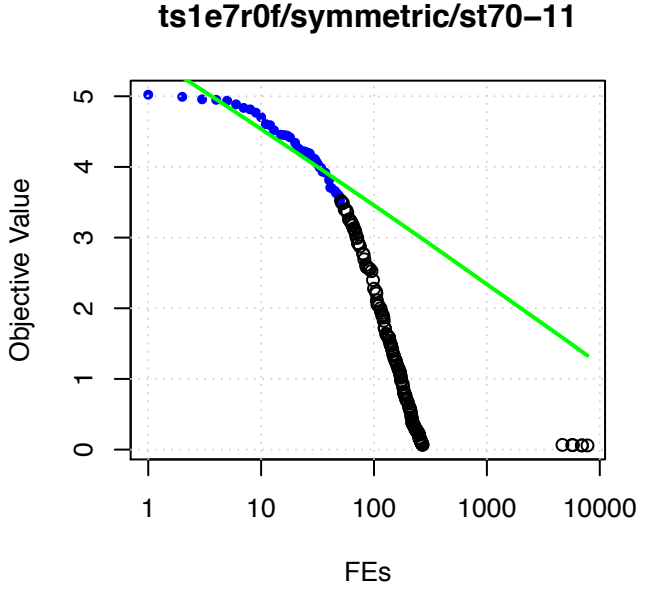
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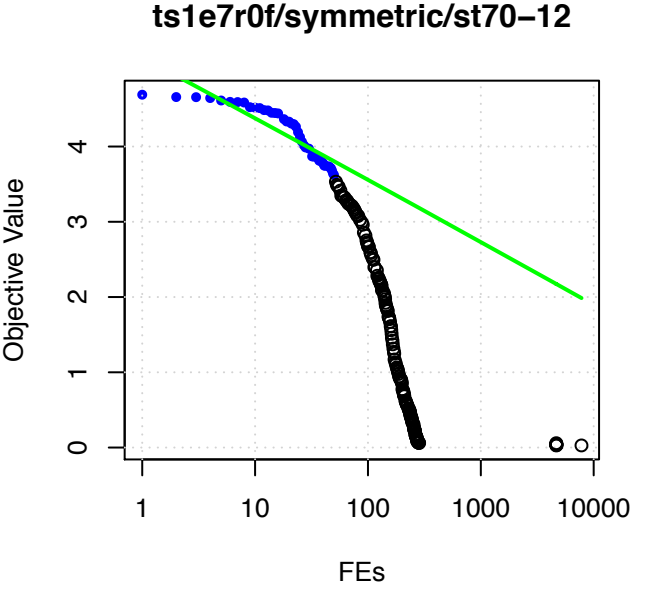
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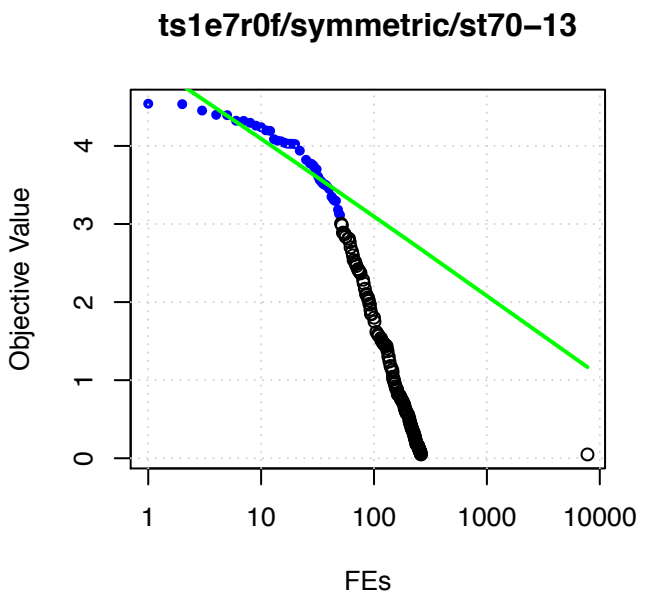
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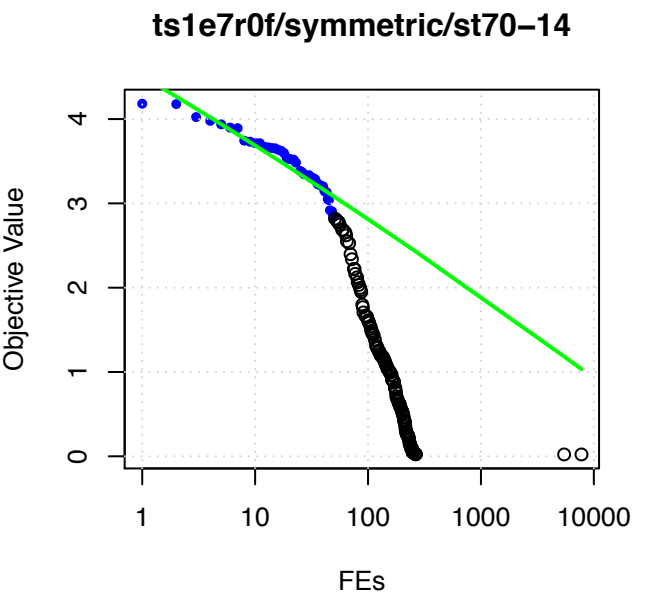
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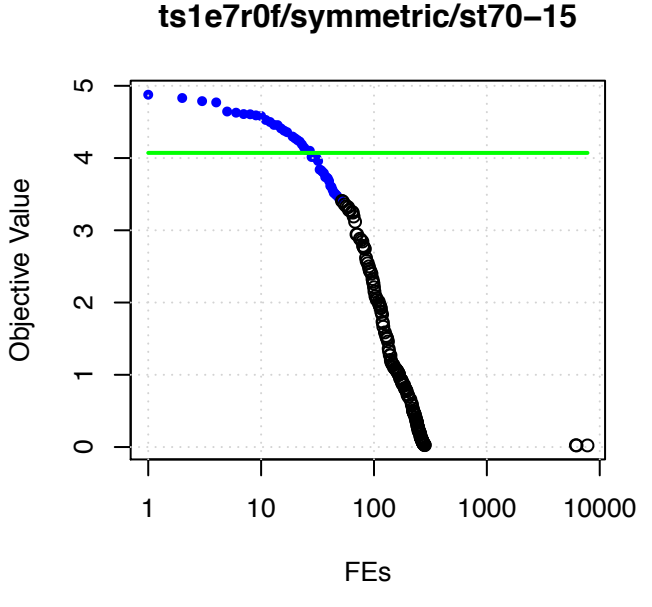
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Objective Value
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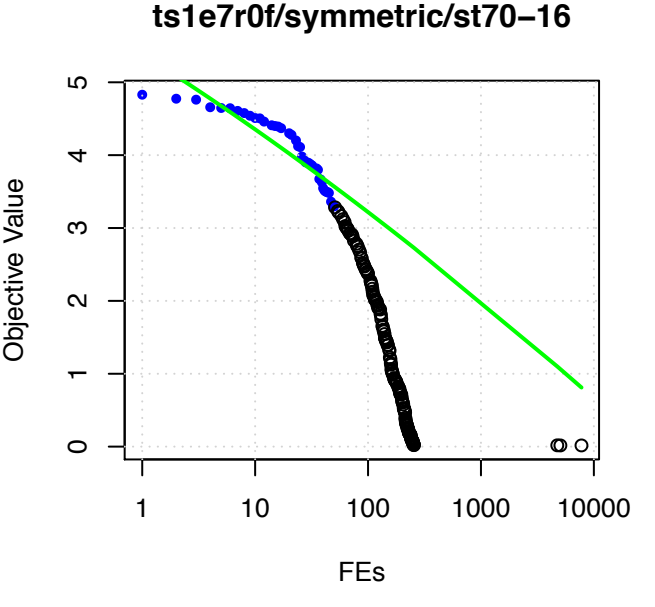
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Objective Value
FEs
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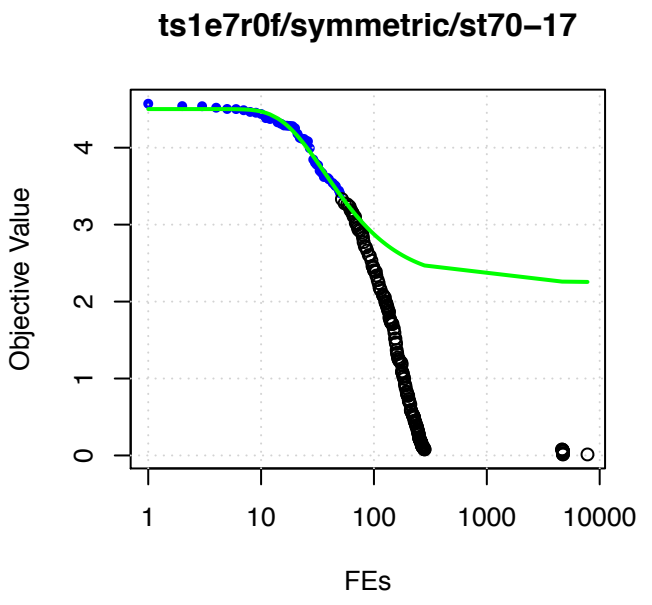
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Objective Value
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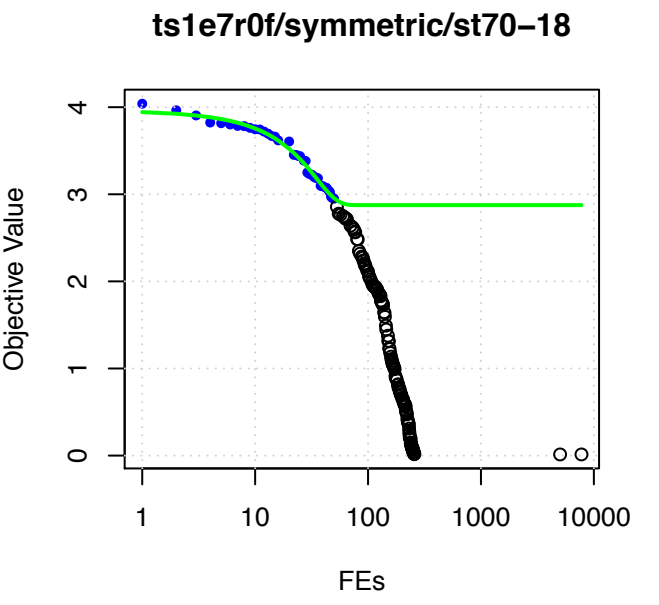
FEs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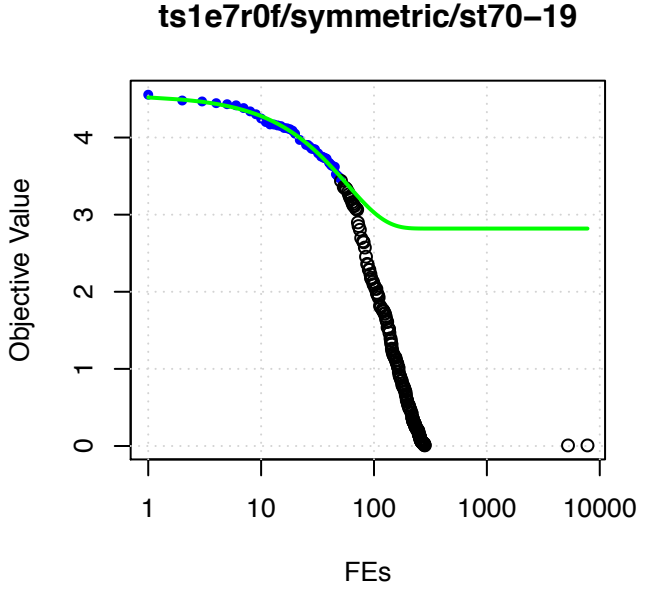
FEs


ts1e7r0f/symmetric/st70−19
Objective Value
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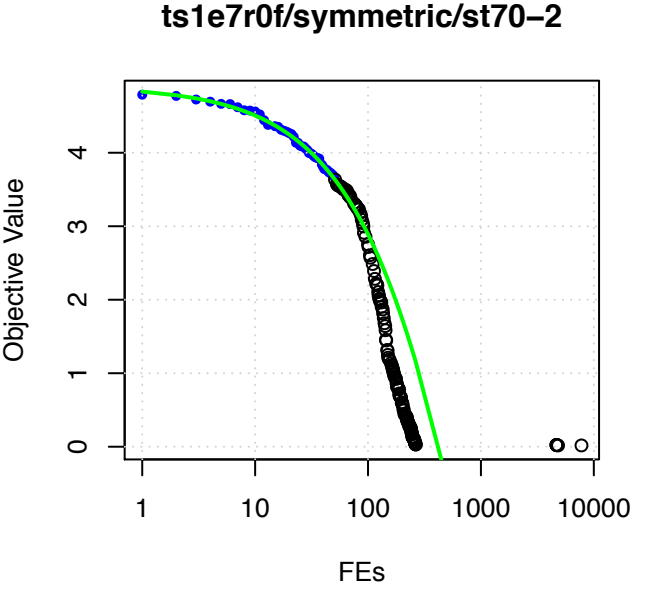
FEs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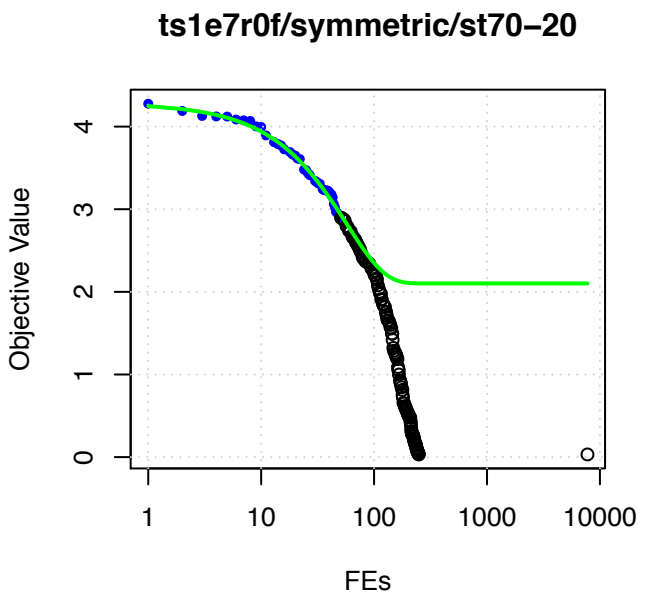
FEs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Objective Value
FEs
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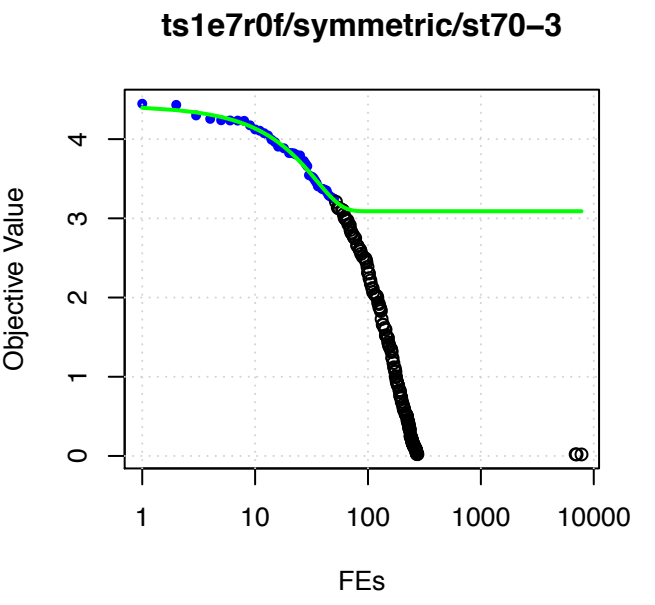
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Objective Value
FEs
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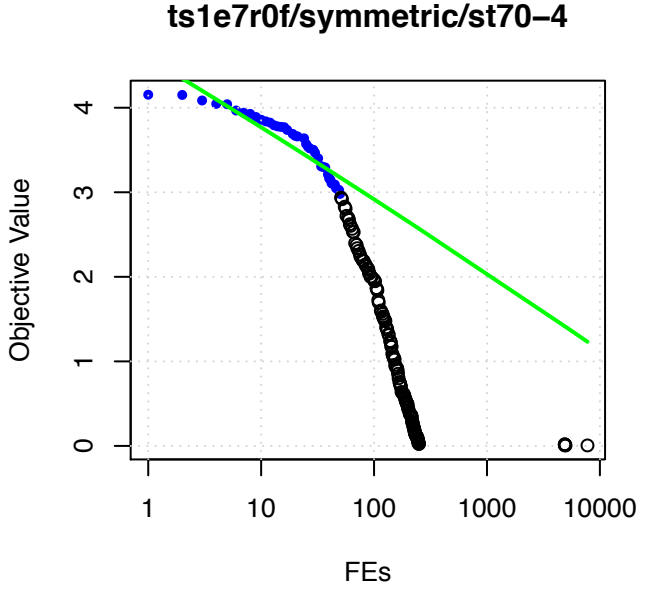
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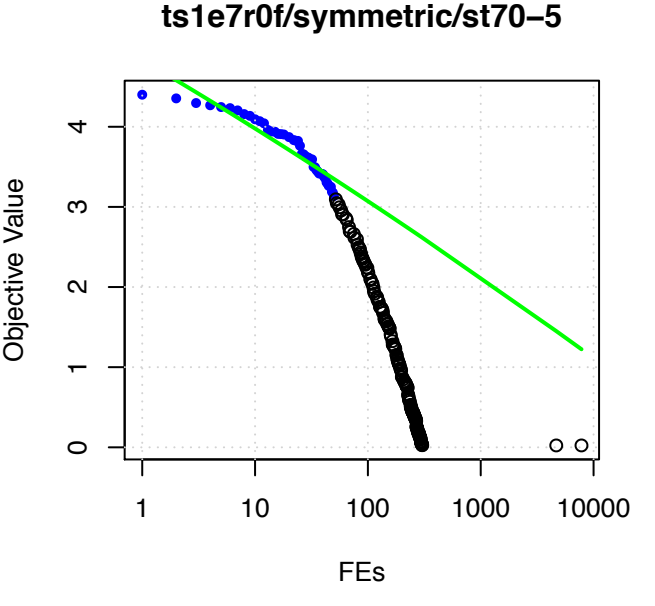
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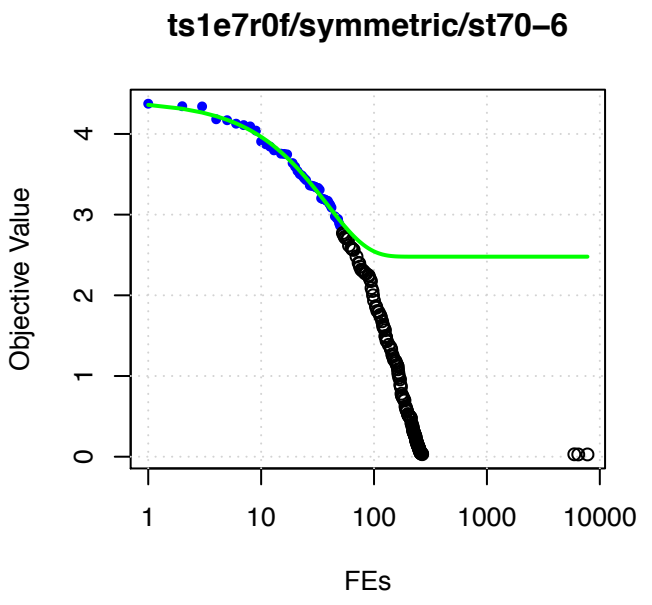
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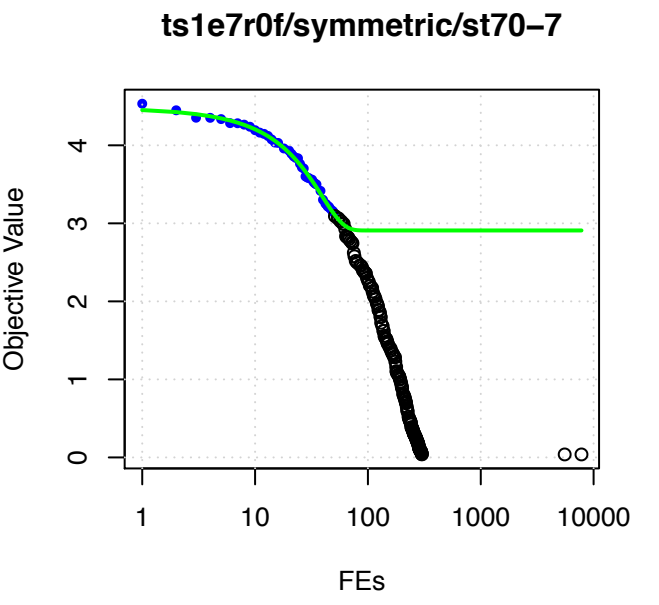
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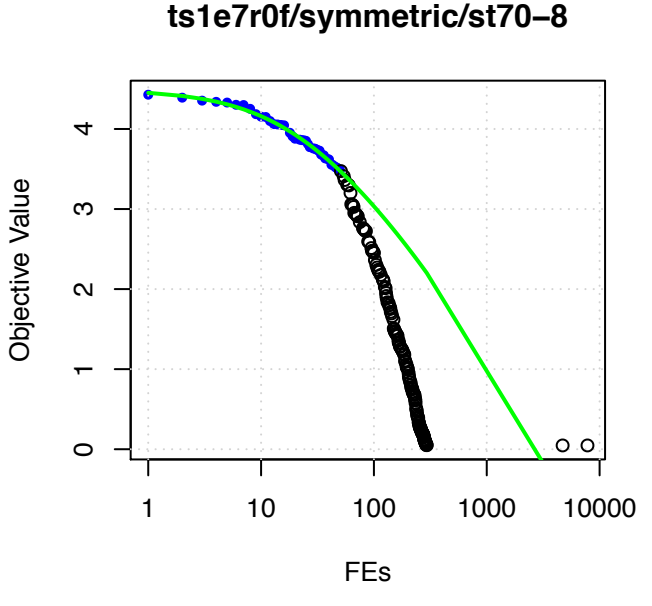
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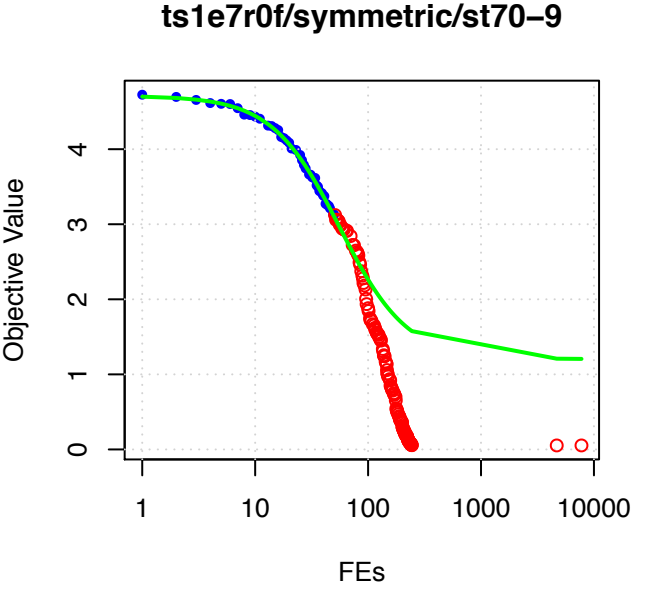
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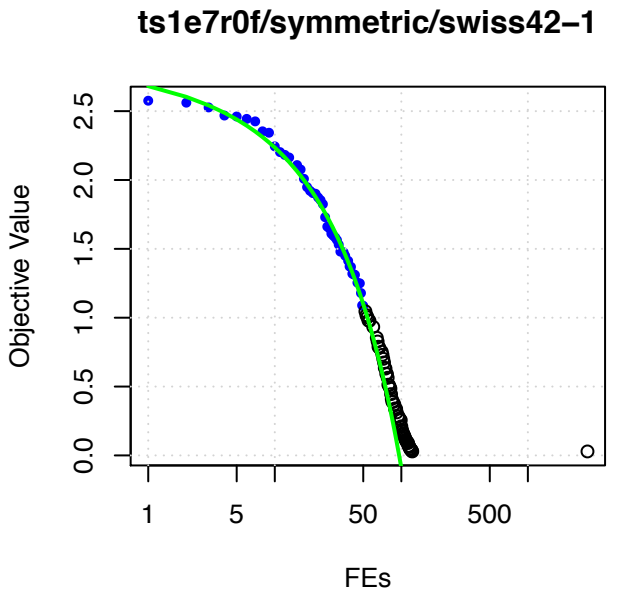
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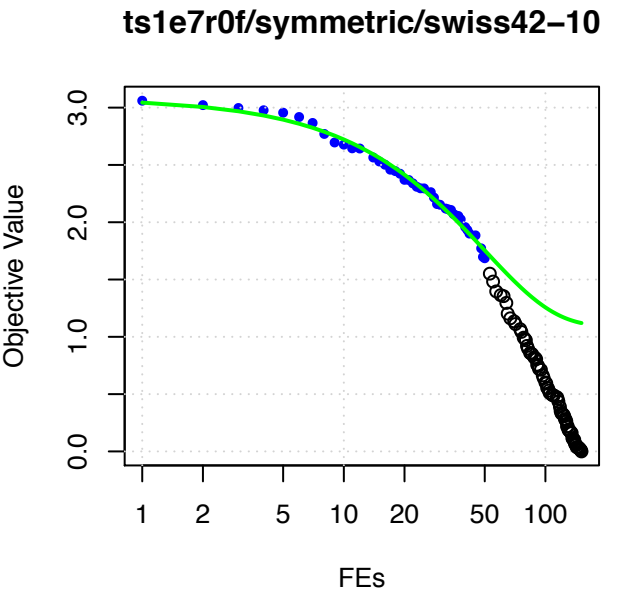
FEs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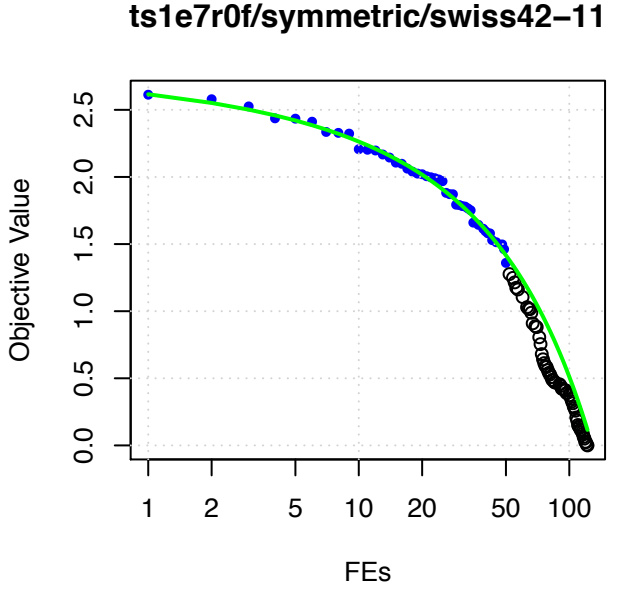
FEs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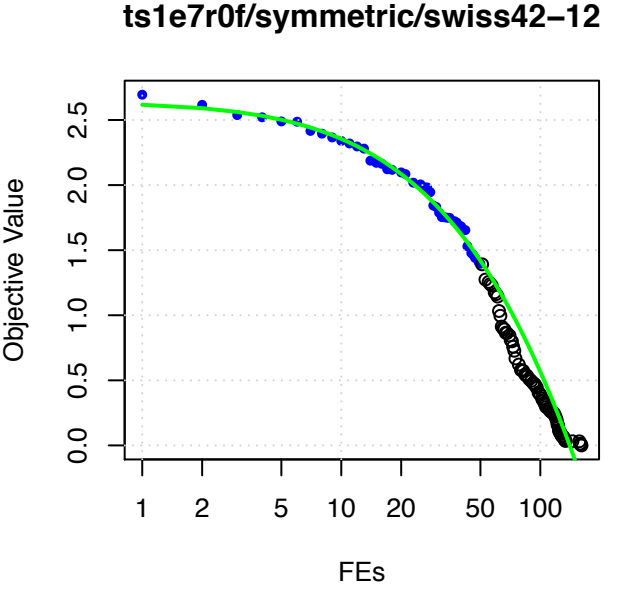
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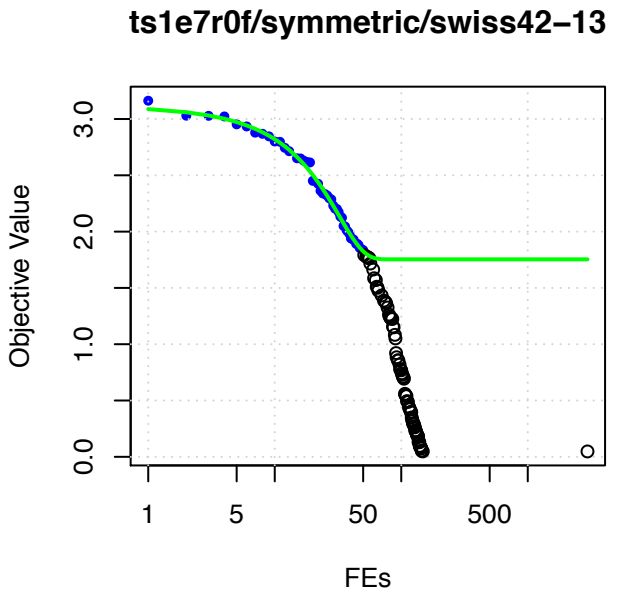
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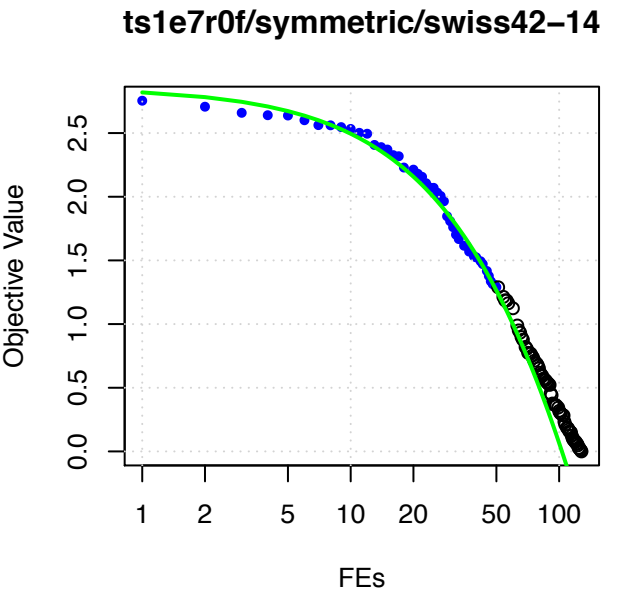
FEs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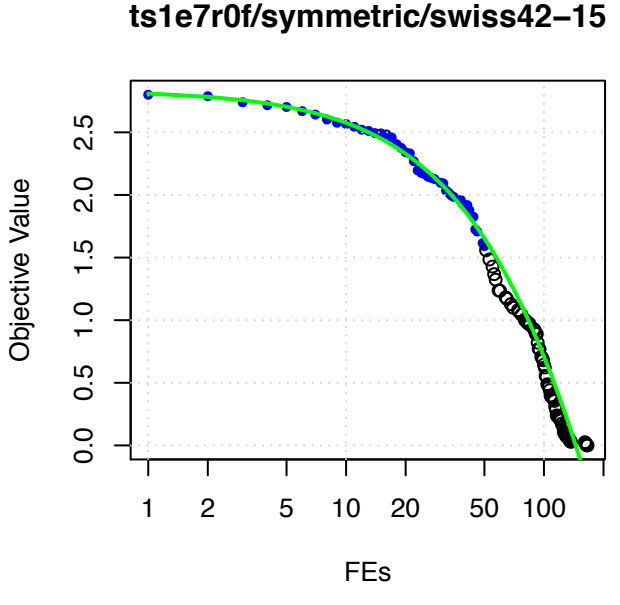
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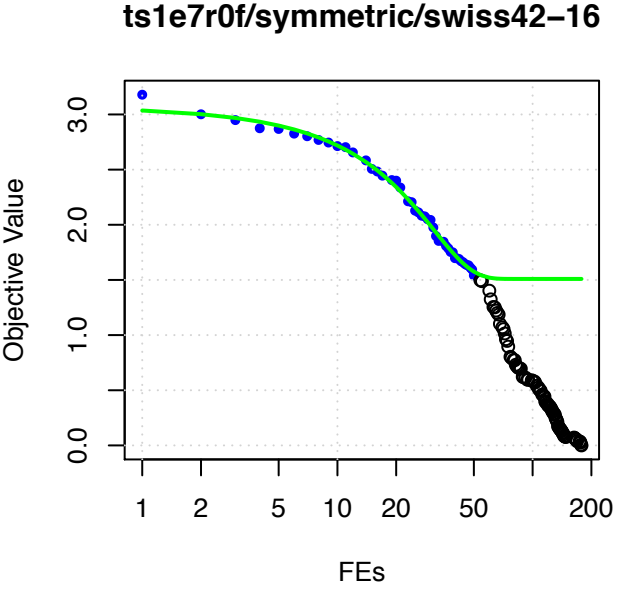
FEs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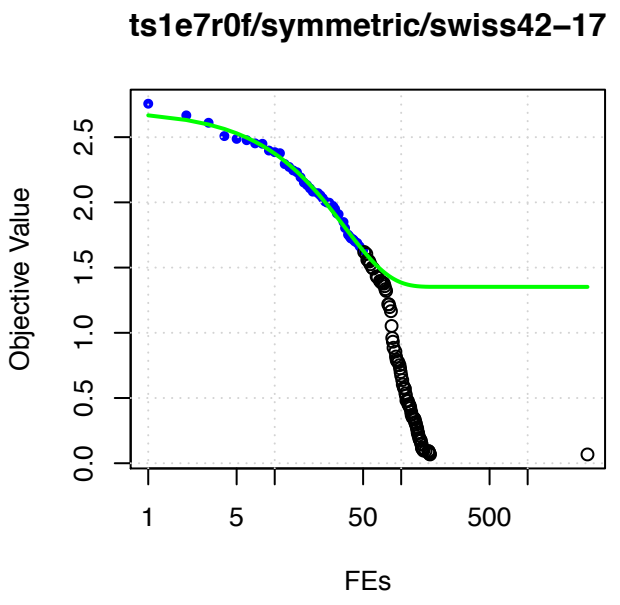
FEs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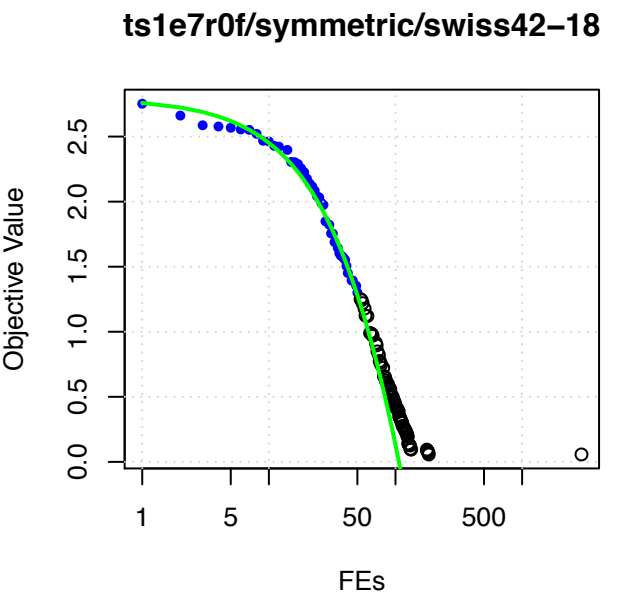
FEs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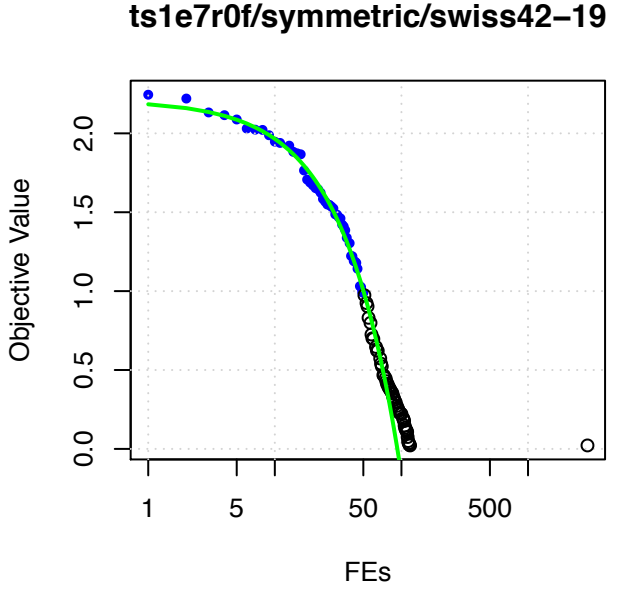
FEs


ts1e7r0f/symmetric/swiss42−19
Objective Value
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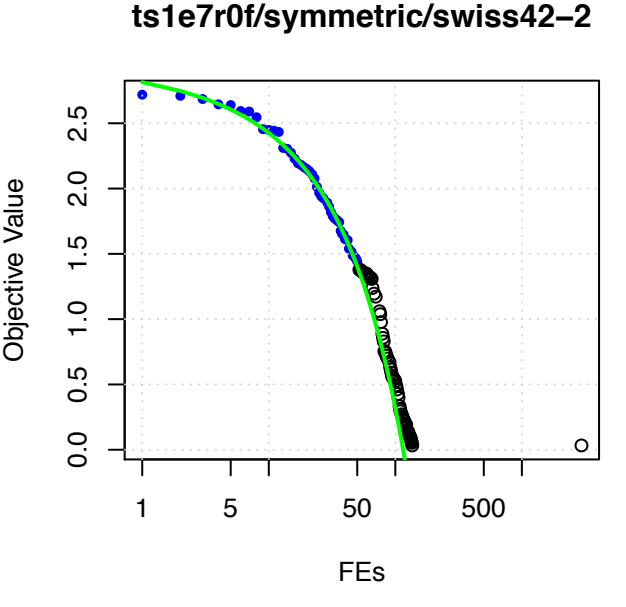
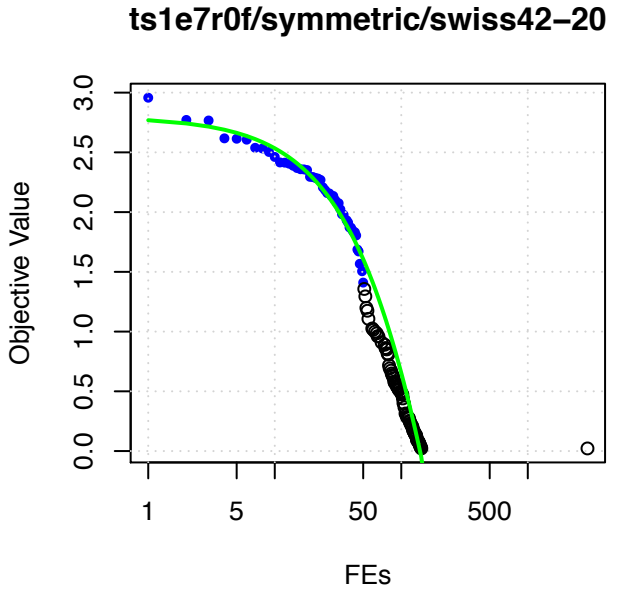
FEs


ts1e7r0f/symmetric/swiss42−2
Objective Value
0.0
0.5
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts1e7r0f/symmetric/swiss42−20
Objective Value
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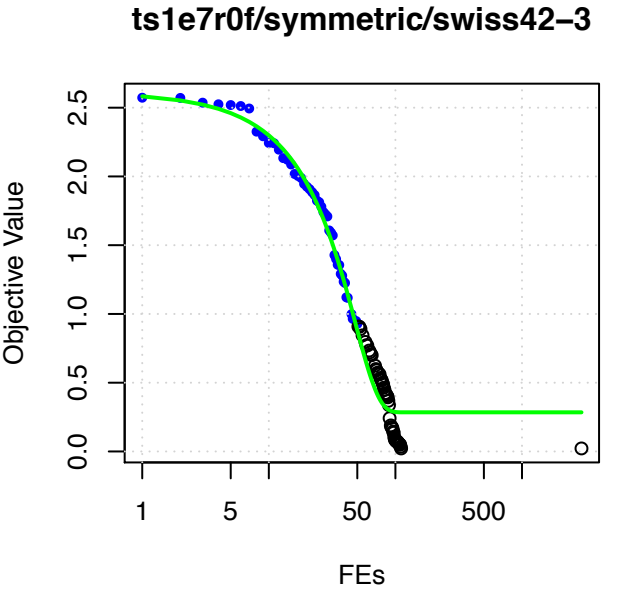
1.0
1.5
2.0
2.5
3.0
1
5
50
500
FEs


ts1e7r0f/symmetric/swiss42−3
Objective Value
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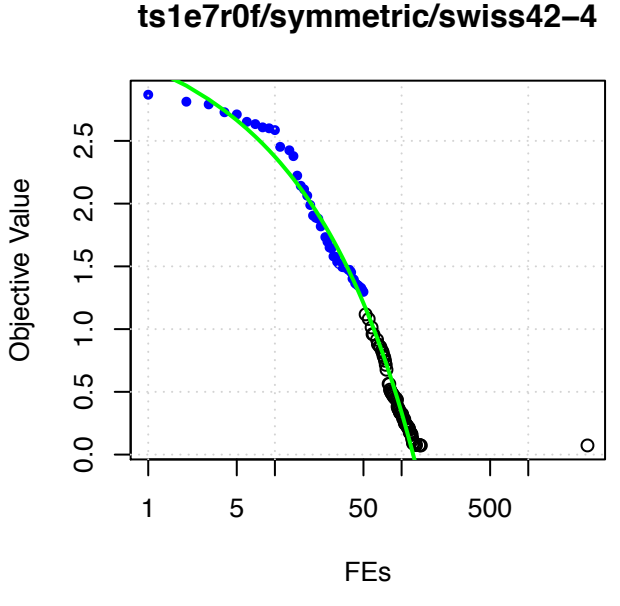
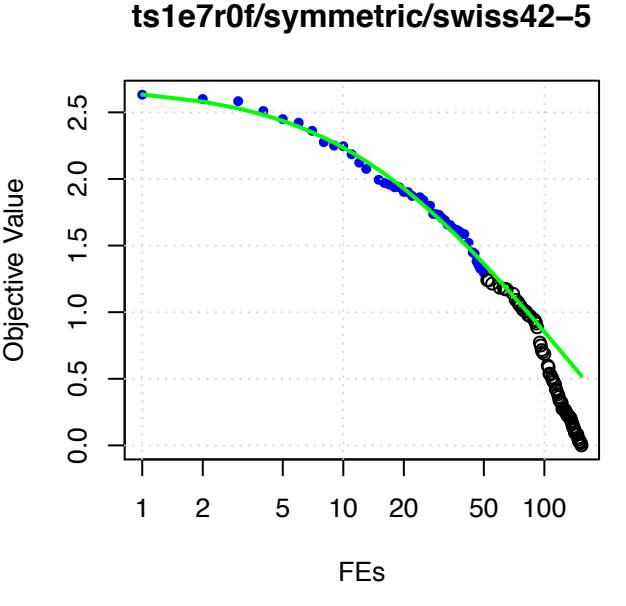
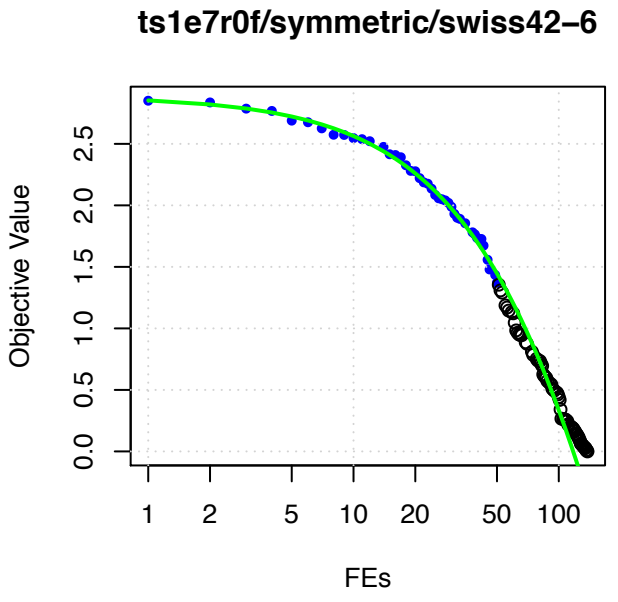
0.5
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts1e7r0f/symmetric/swiss42−4
Objective Value
0.0
0.5
1.0
1.5
2.0
2.5
1
5
50
500
FEs


ts1e7r0f/symmetric/swiss42−5
Objective Value
0.0
0.5
1.0
1.5
2.0
2.5
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/swiss42−6
Objective Value
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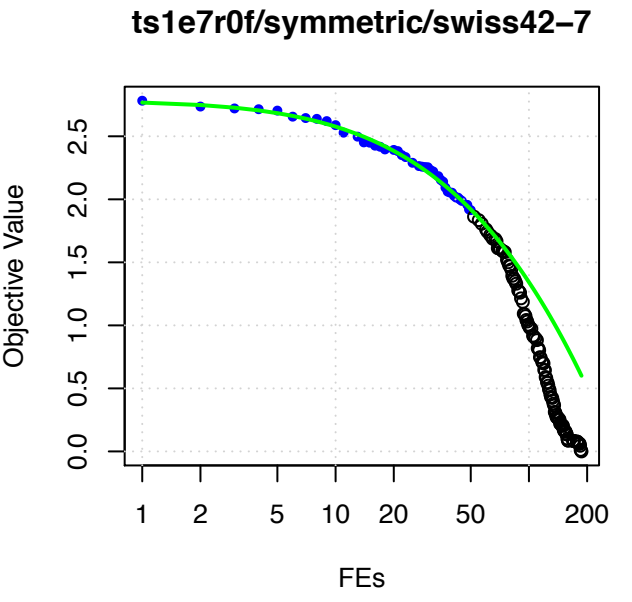
0.5
1.0
1.5
2.0
2.5
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/swiss42−7
Objective Value
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1.0
1.5
2.0
2.5
1
2
5
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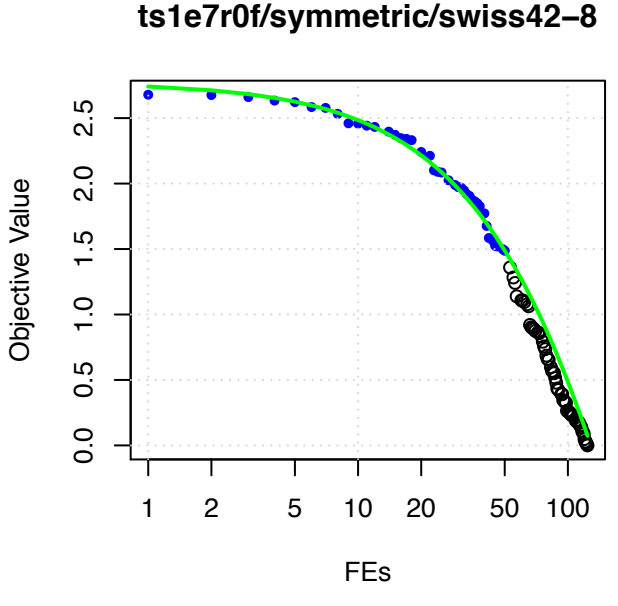
20
50
200
FEs


ts1e7r0f/symmetric/swiss42−8
Objective Value
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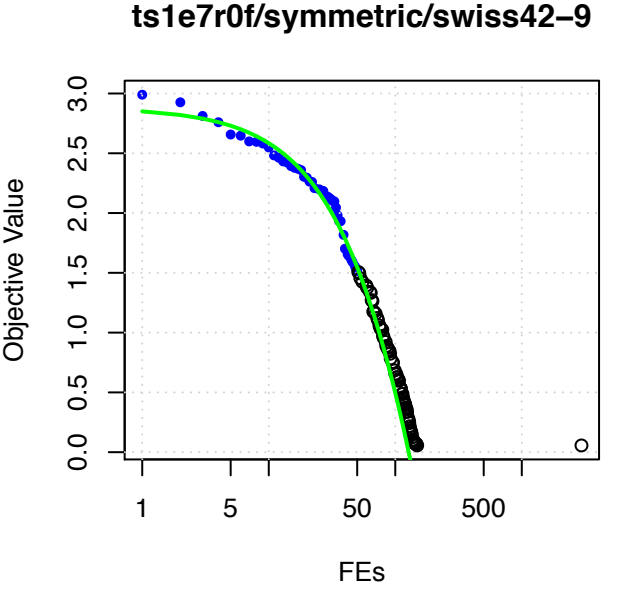
0.5
1.0
1.5
2.0
2.5
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/swiss42−9
Objective Value
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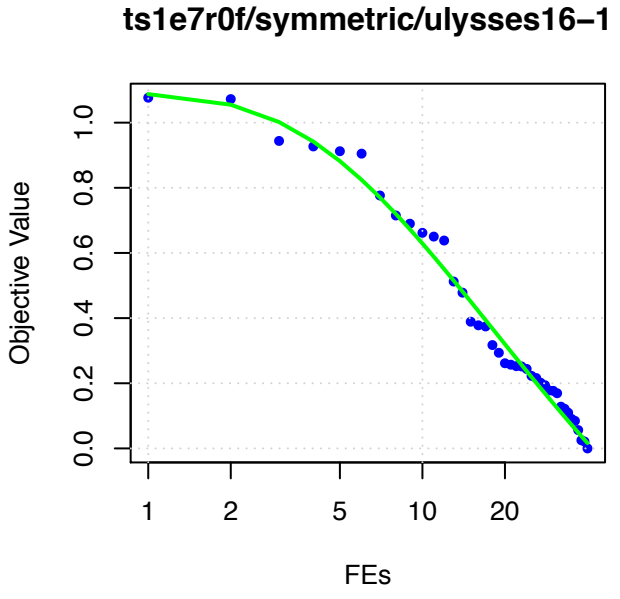
0.5
1.0
1.5
2.0
2.5
3.0
1
5
50
500
FEs


ts1e7r0f/symmetric/ulysses16−1
Objective Value
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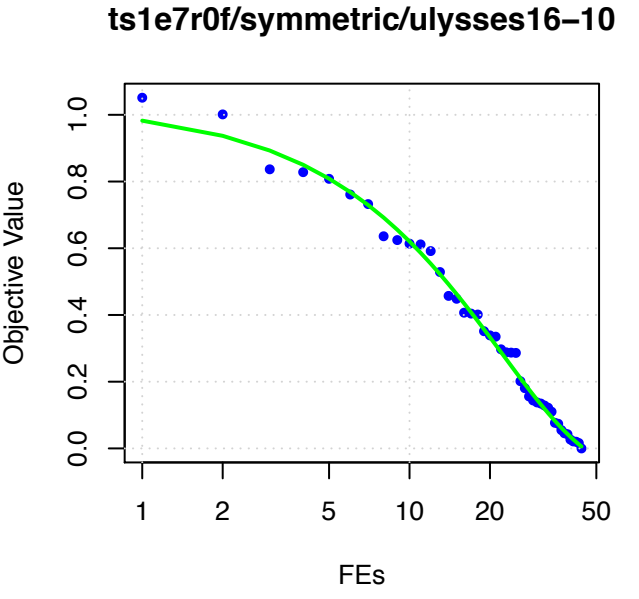
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
FEs


ts1e7r0f/symmetric/ulysses16−10
Objective Value
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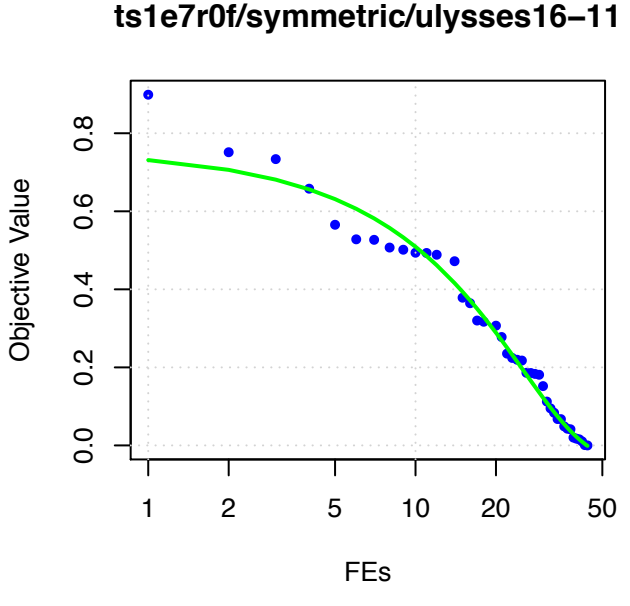
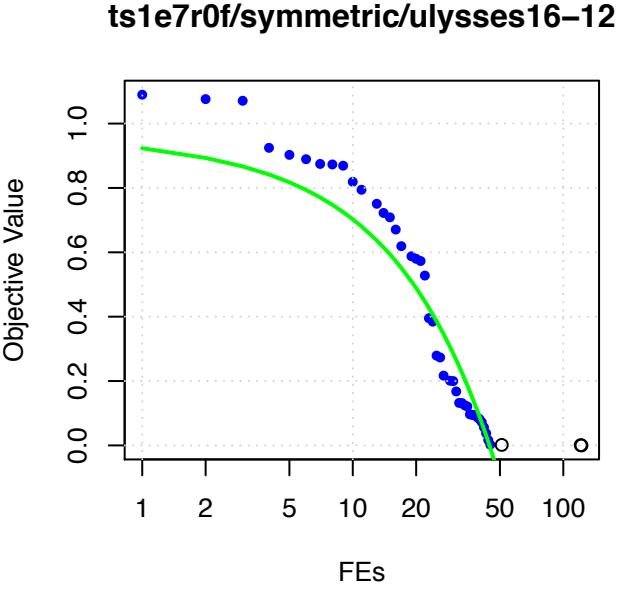
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/ulysses16−11
Objective Value
0.0
0.2
0.4
0.6
0.8
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/ulysses16−12
Objective Value
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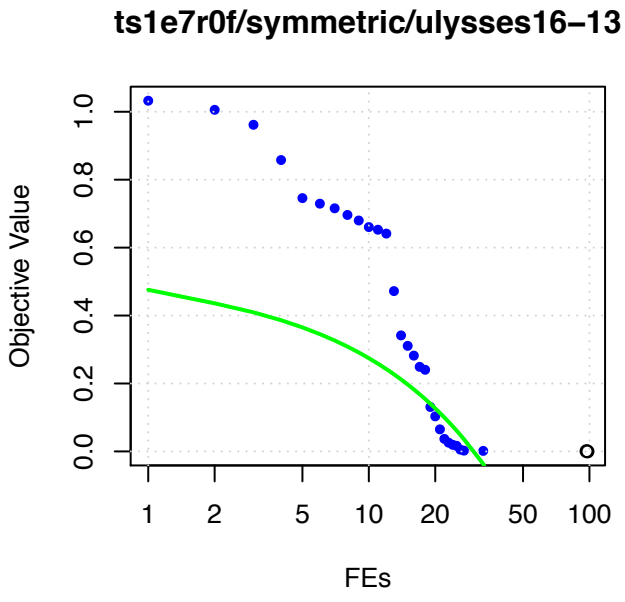
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/ulysses16−13
Objective Value
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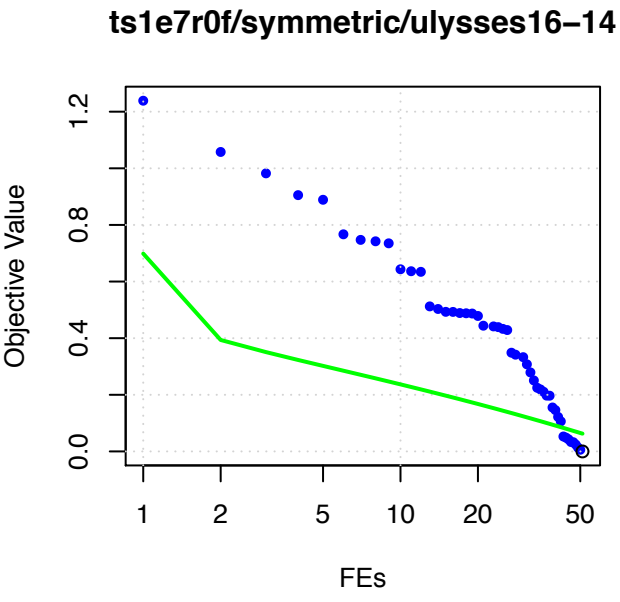
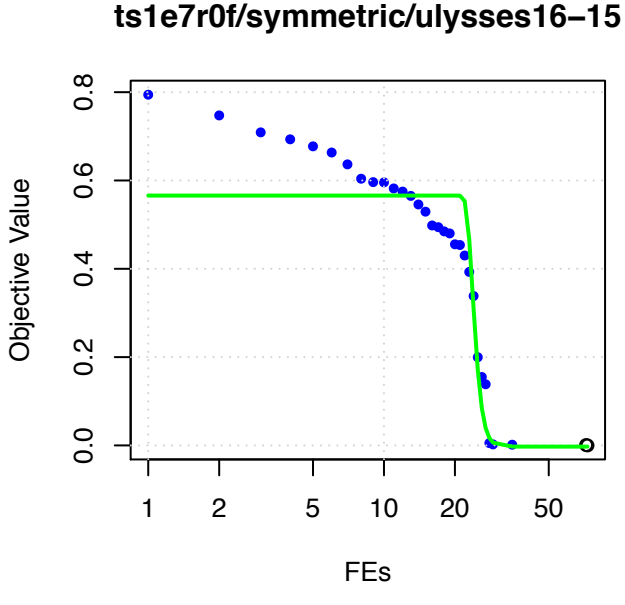
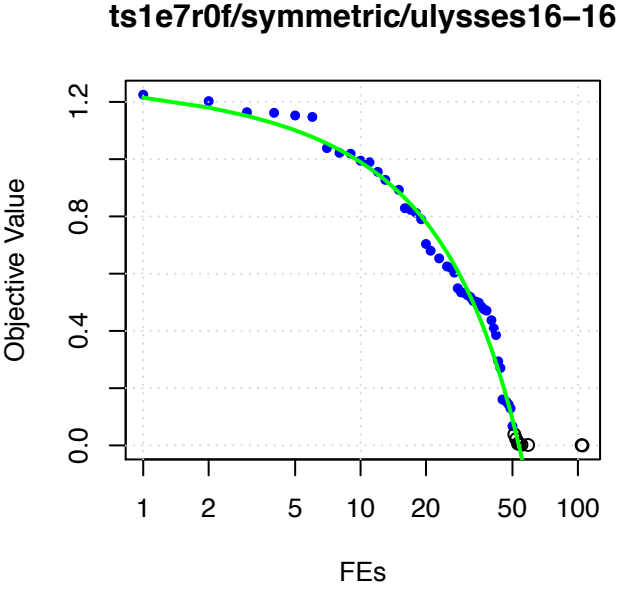
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/ulysses16−14
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/ulysses16−15
Objective Value
0.0
0.2
0.4
0.6
0.8
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/ulysses16−16
Objective Value
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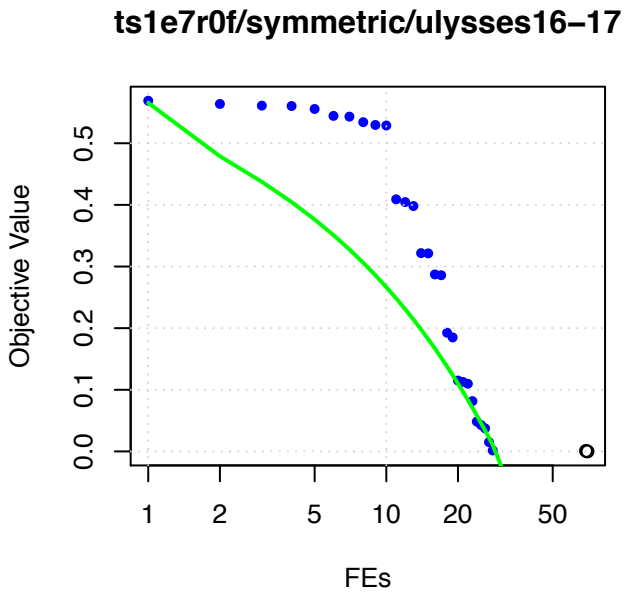
0.4
0.8
1.2
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/ulysses16−17
Objective Value
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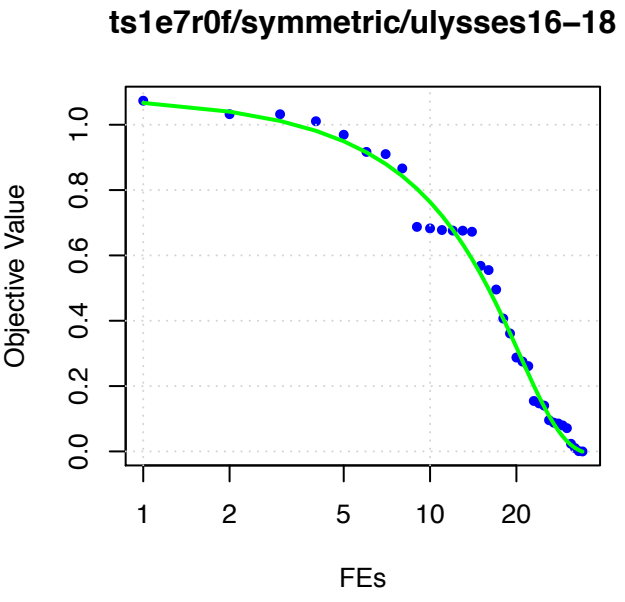
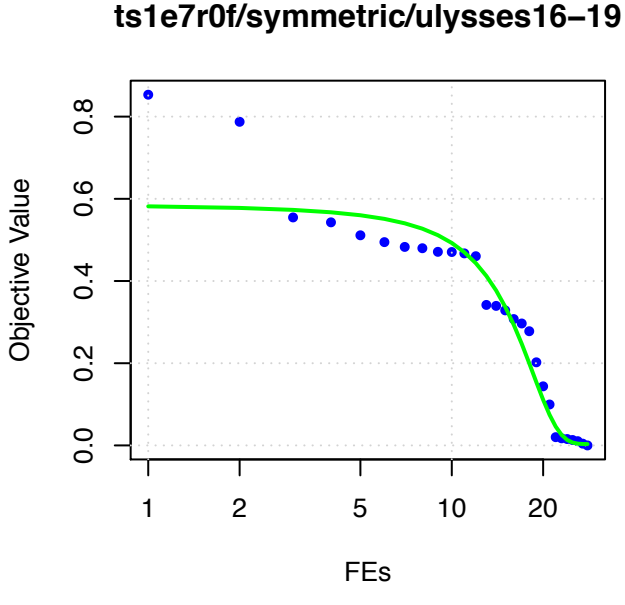
0.1
0.2
0.3
0.4
0.5
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/ulysses16−18
Objective Value
0.0
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
FEs


ts1e7r0f/symmetric/ulysses16−19
Objective Value
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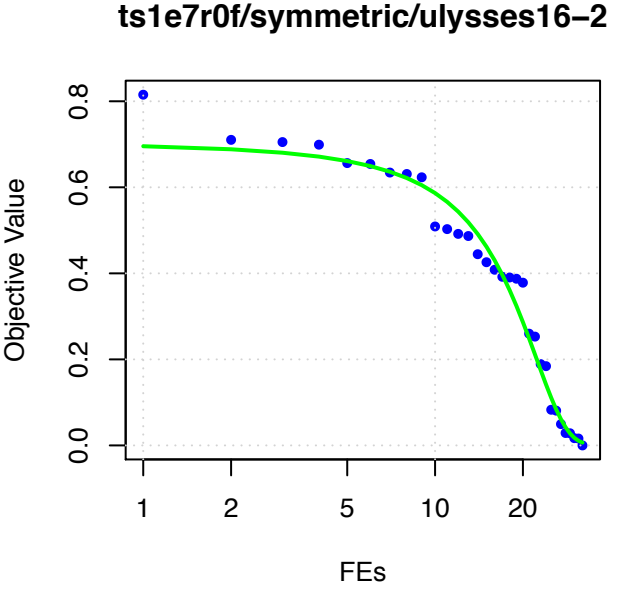
0.2
0.4
0.6
0.8
1
2
5
10
20
FEs


ts1e7r0f/symmetric/ulysses16−2
Objective Value
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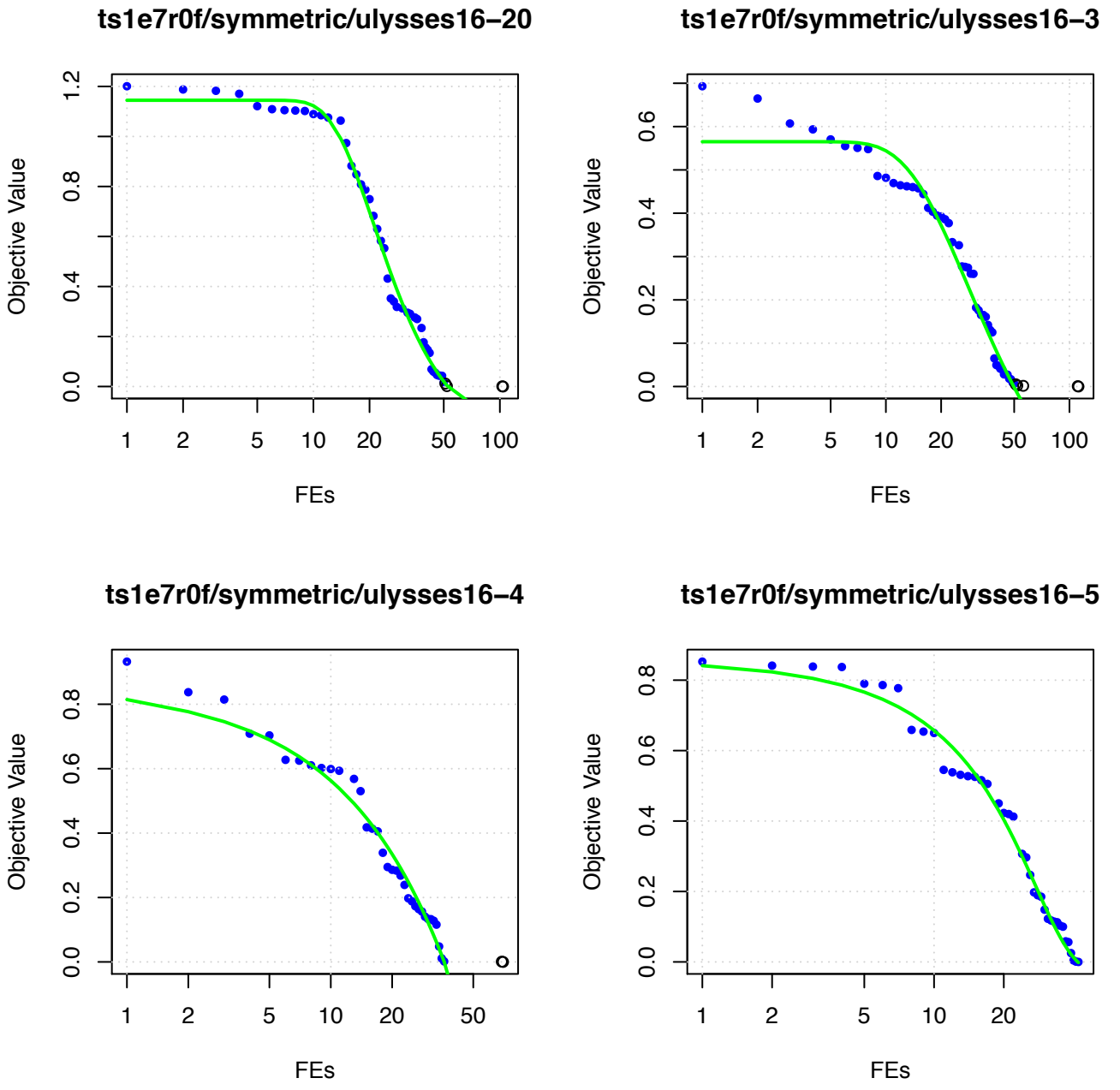
0.2
0.4
0.6
0.8
1
2
5
10
20
FEs


ts1e7r0f/symmetric/ulysses16−20
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
20
50
100
FEs
ts1e7r0f/symmetric/ulysses16−3
Objective Value
0.0
0.2
0.4
0.6
1
2
5
10
20
50
100
FEs
ts1e7r0f/symmetric/ulysses16−4
Objective Value
0.0
0.2
0.4
0.6
0.8
1
2
5
10
20
50
FEs
ts1e7r0f/symmetric/ulysses16−5
Objective Value
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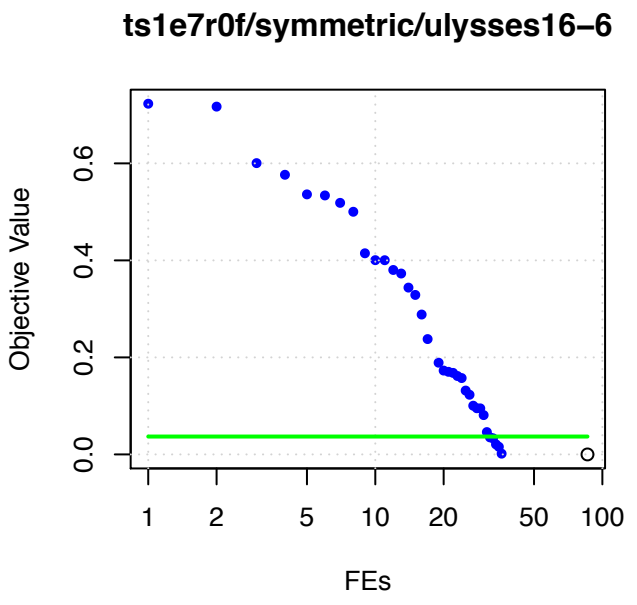
0.2
0.4
0.6
0.8
1
2
5
10
20
FEs


ts1e7r0f/symmetric/ulysses16−6
Objective Value
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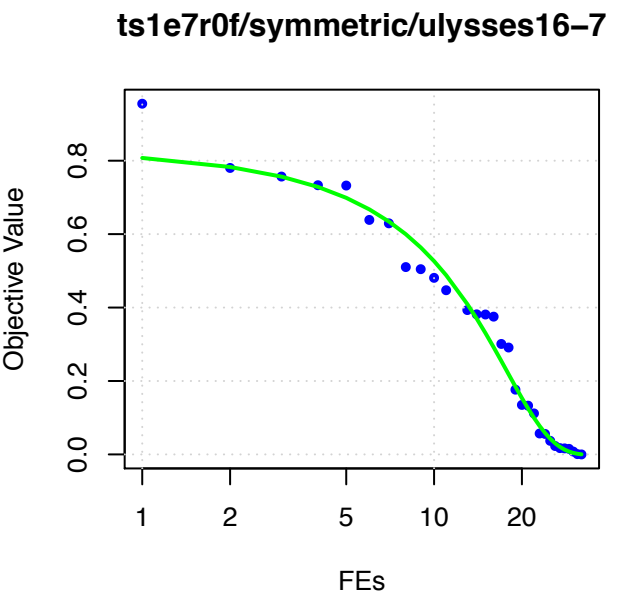
0.2
0.4
0.6
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/ulysses16−7
Objective Value
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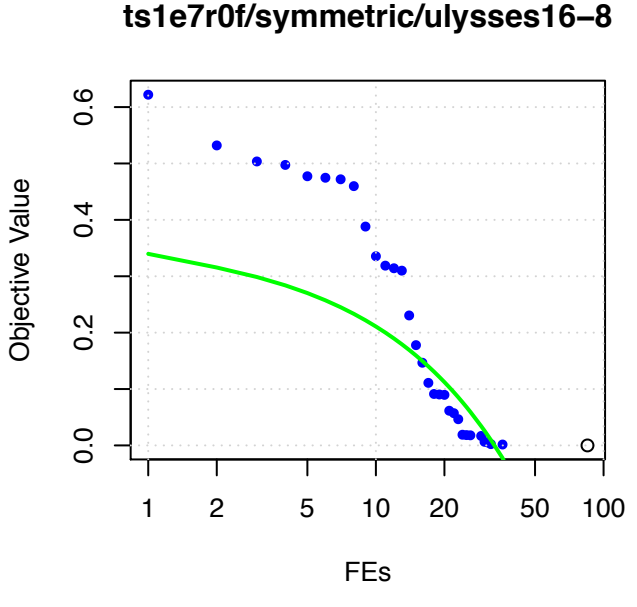
0.4
0.6
0.8
1
2
5
10
20
FEs


ts1e7r0f/symmetric/ulysses16−8
Objective Value
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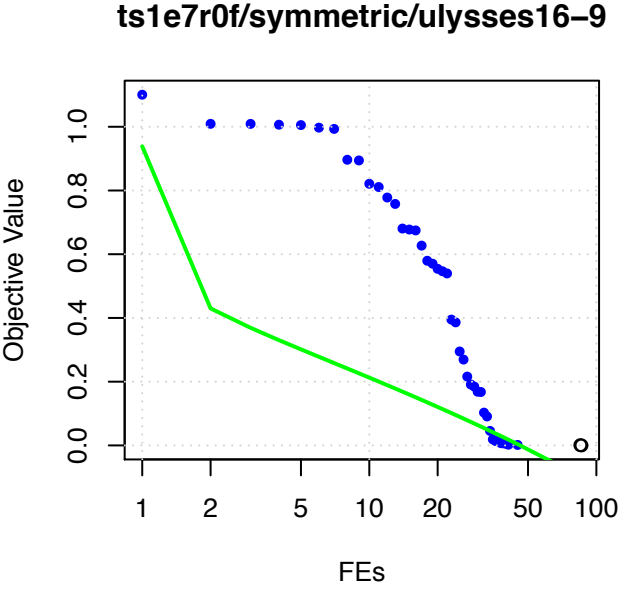
0.4
0.6
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/ulysses16−9
Objective Value
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0.4
0.6
0.8
1.0
1
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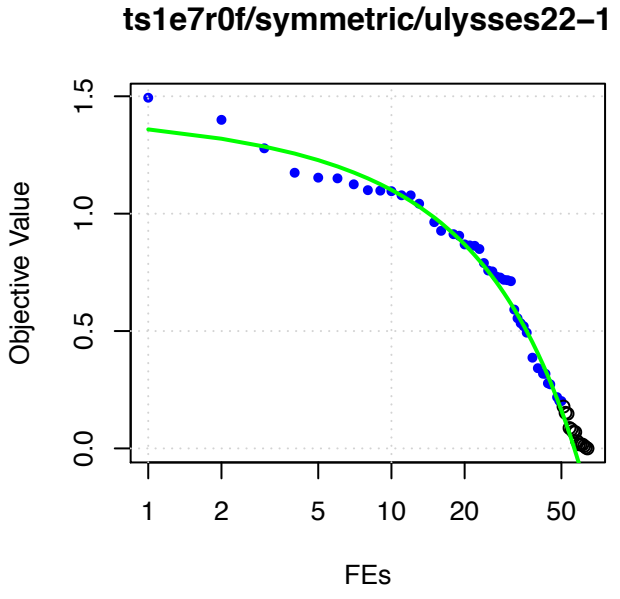
20
50
100
FEs


ts1e7r0f/symmetric/ulysses22−1
Objective Value
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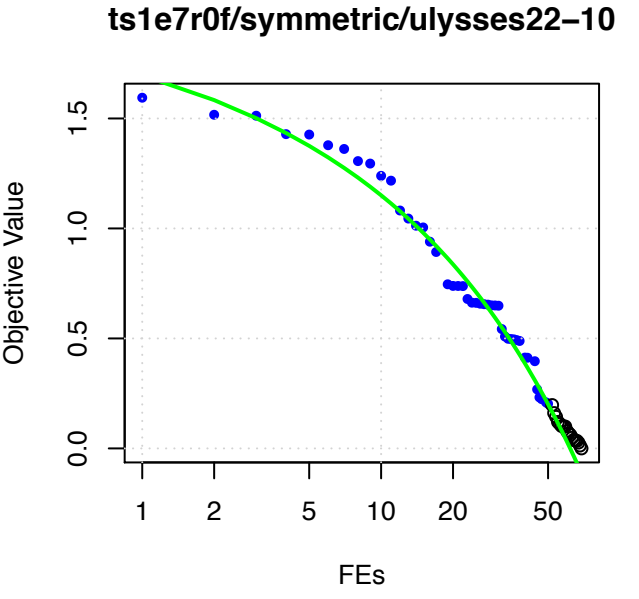
0.5
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/ulysses22−10
Objective Value
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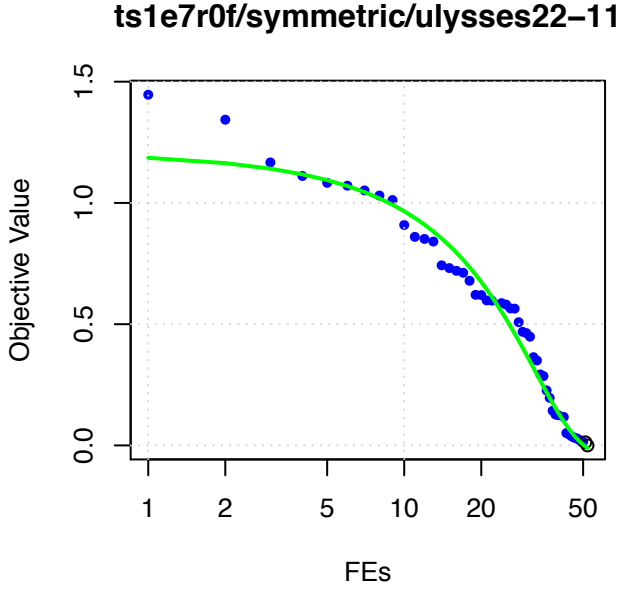
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/ulysses22−11
Objective Value
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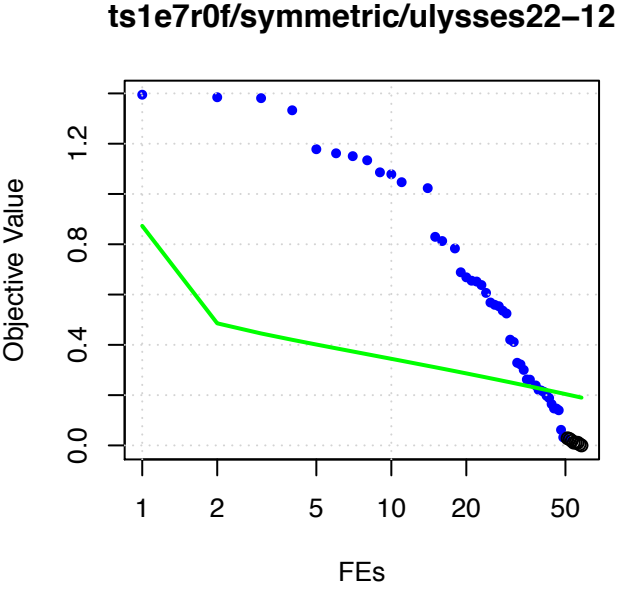
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/ulysses22−12
Objective Value
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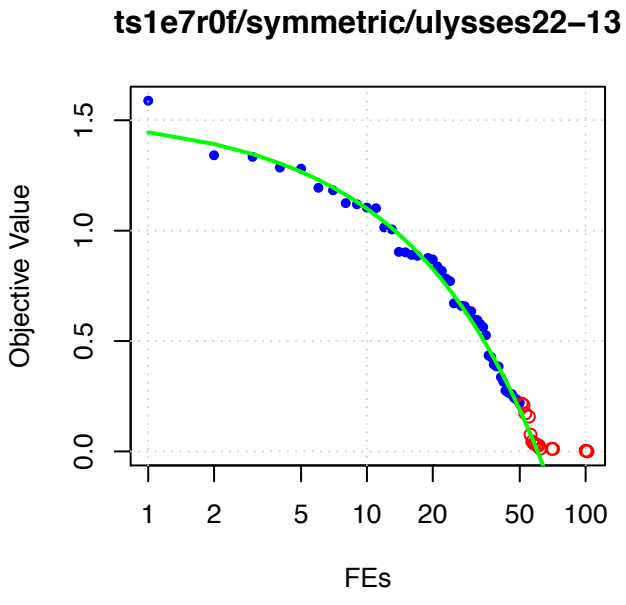
0.8
1.2
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/ulysses22−13
Objective Value
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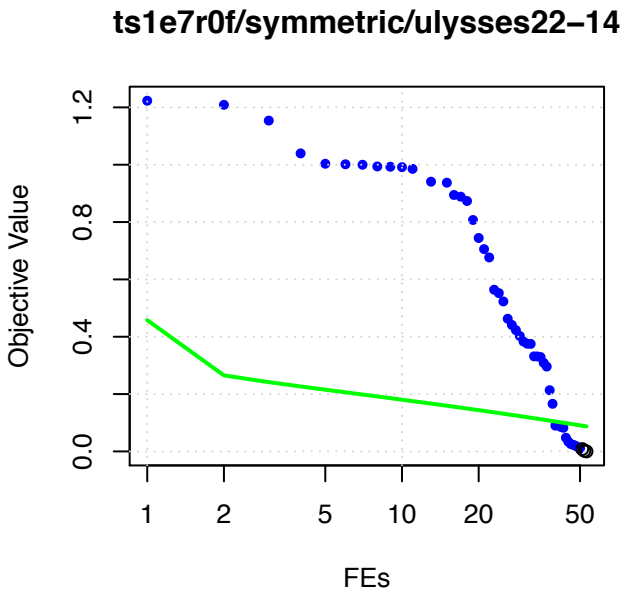
0.5
1.0
1.5
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/ulysses22−14
Objective Value
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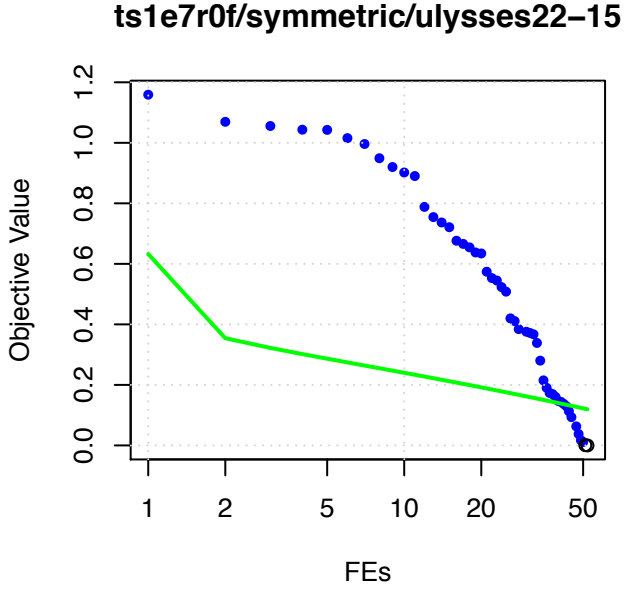
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/ulysses22−15
Objective Value
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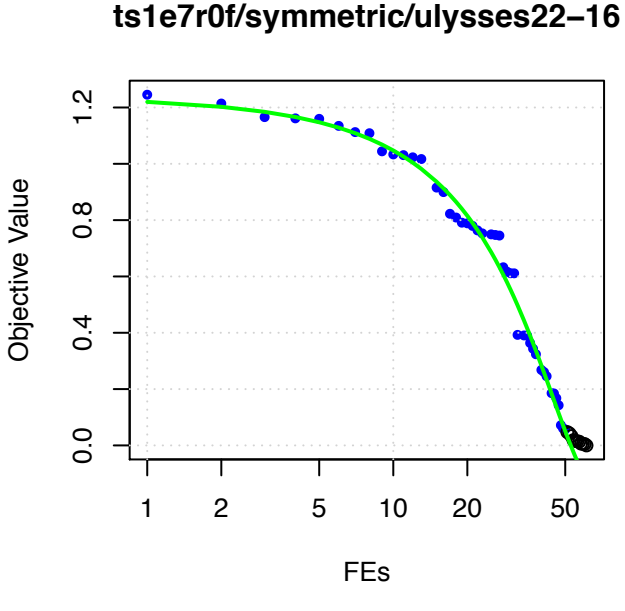
0.4
0.6
0.8
1.0
1.2
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/ulysses22−16
Objective Value
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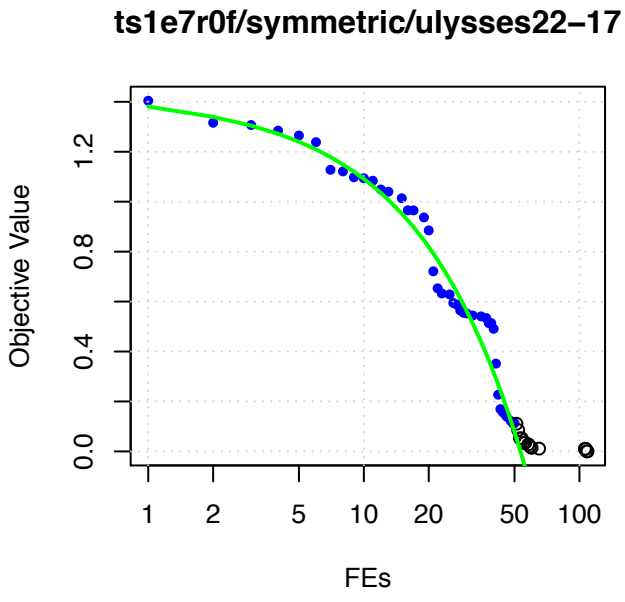
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/ulysses22−17
Objective Value
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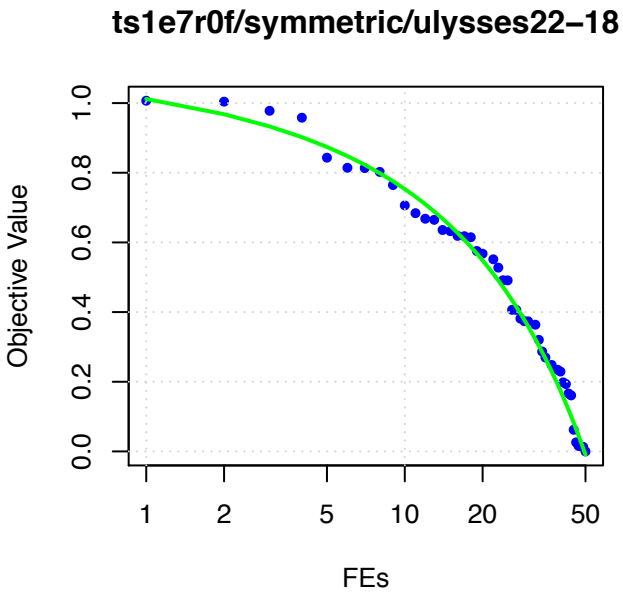
0.4
0.8
1.2
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/ulysses22−18
Objective Value
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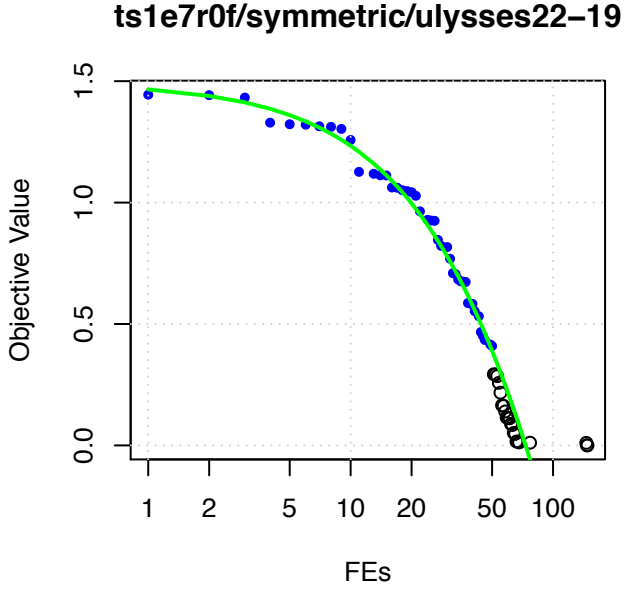
0.2
0.4
0.6
0.8
1.0
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/ulysses22−19
Objective Value
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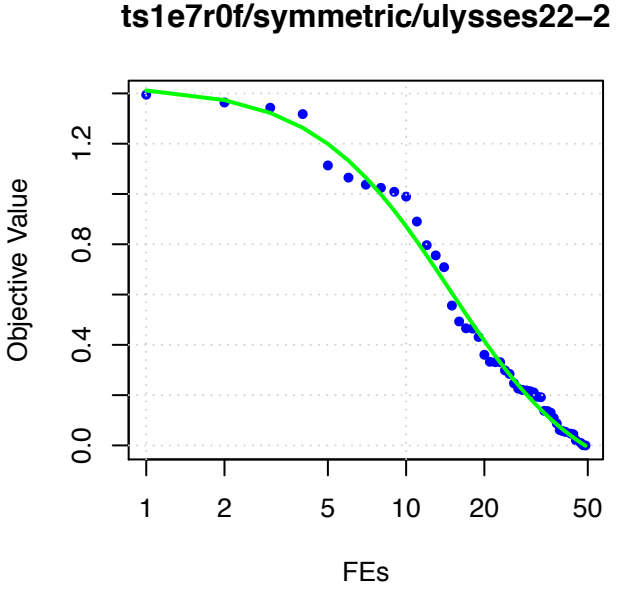
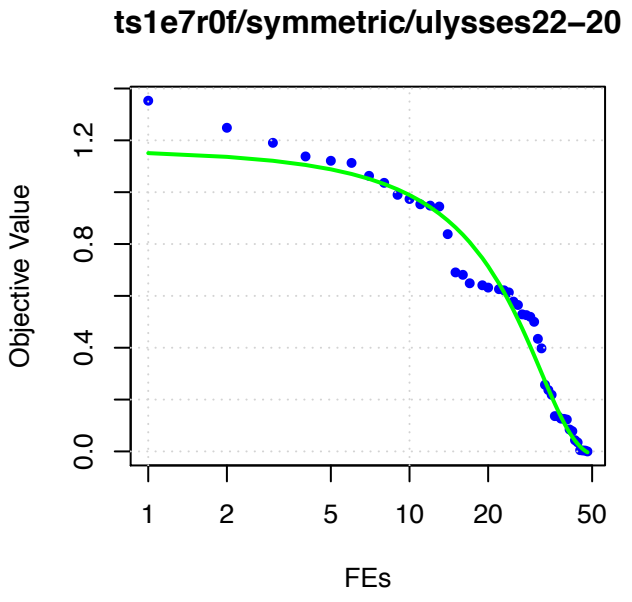
0.5
1.0
1.5
1
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/ulysses22−2
Objective Value
0.0
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/ulysses22−20
Objective Value
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0.8
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20
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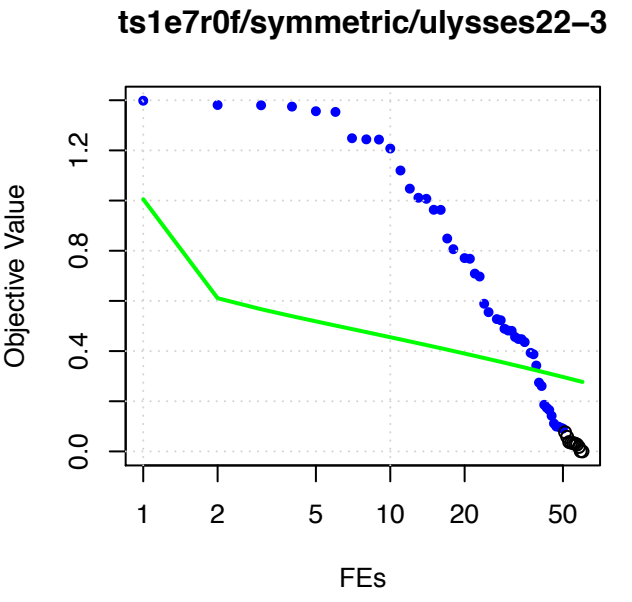
FEs


ts1e7r0f/symmetric/ulysses22−3
Objective Value
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0.8
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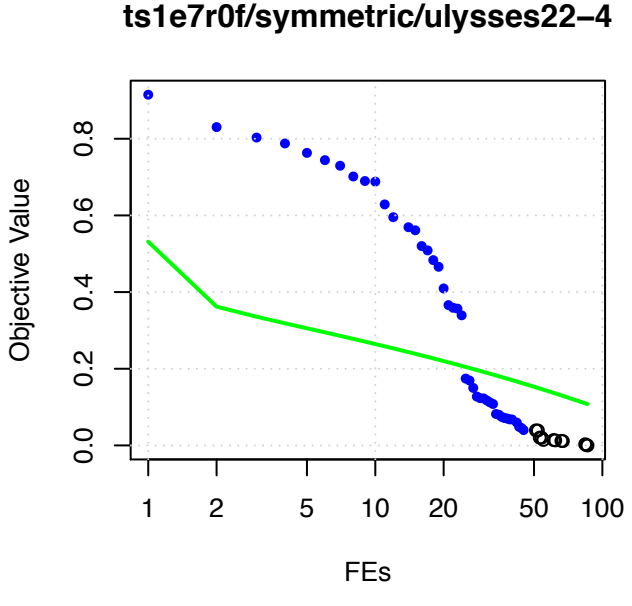
2
5
10
20
50
FEs


ts1e7r0f/symmetric/ulysses22−4
Objective Value
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0.8
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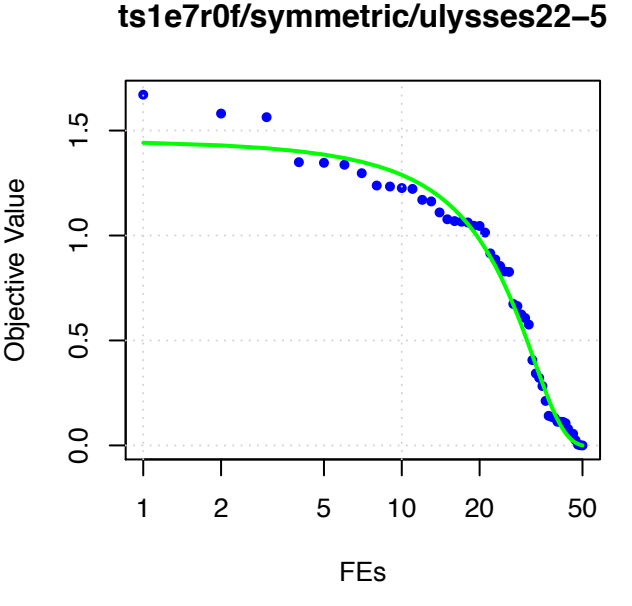
2
5
10
20
50
100
FEs


ts1e7r0f/symmetric/ulysses22−5
Objective Value
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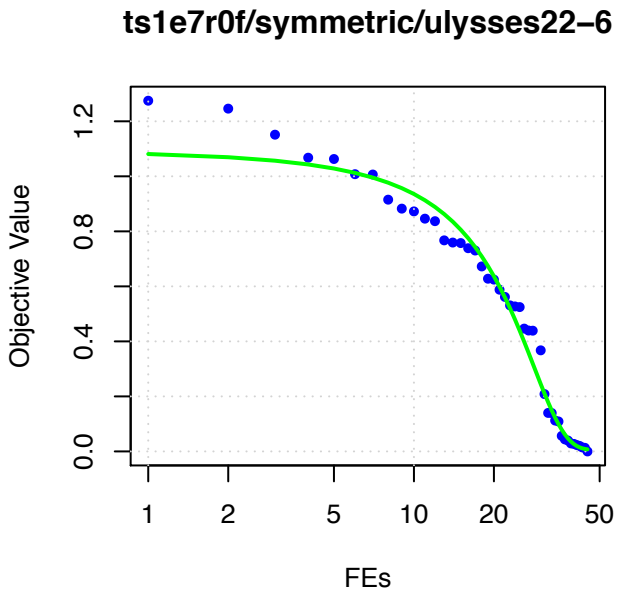
1.0
1.5
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/ulysses22−6
Objective Value
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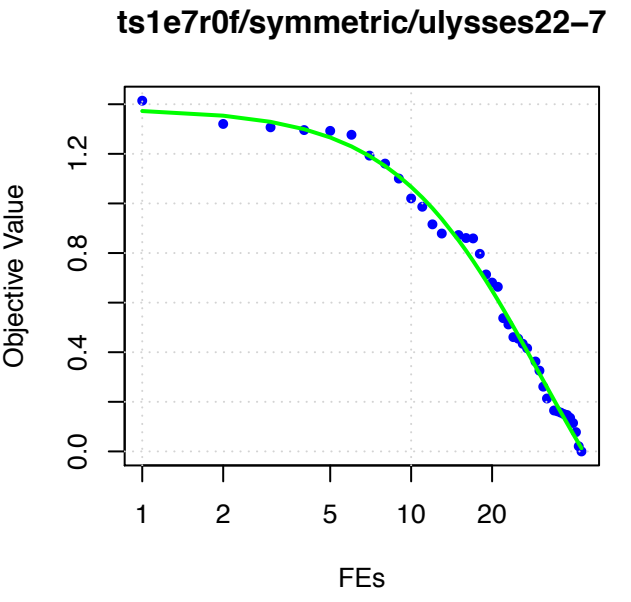
0.8
1.2
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/ulysses22−7
Objective Value
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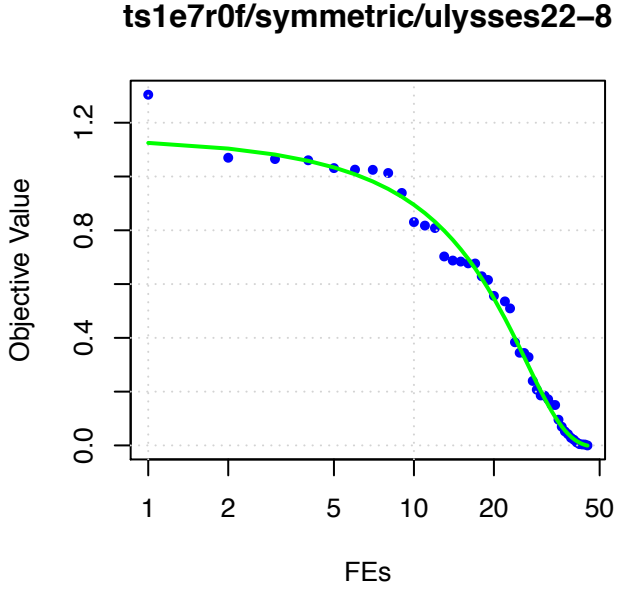
0.8
1.2
1
2
5
10
20
FEs


ts1e7r0f/symmetric/ulysses22−8
Objective Value
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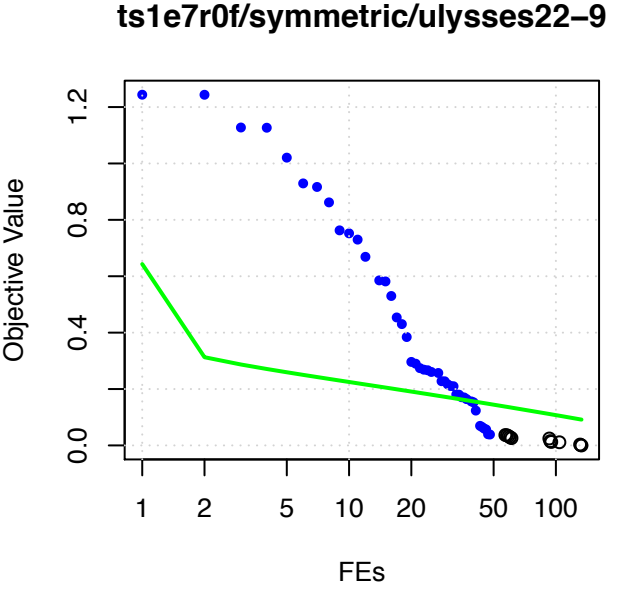
0.4
0.8
1.2
1
2
5
10
20
50
FEs


ts1e7r0f/symmetric/ulysses22−9
Objective Value
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0.4
0.8
1.2
1
2
5
10
20
50
100
FEs