

VSL graphics

April 2, 2024

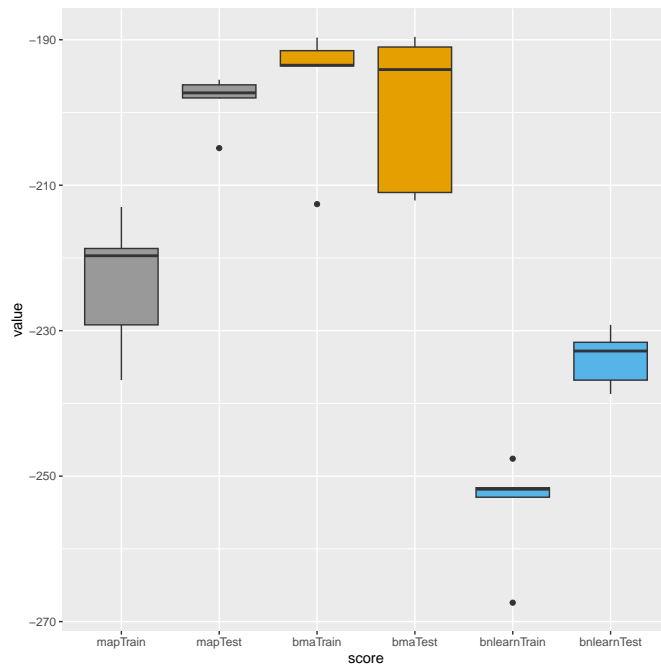
1 Asia network

Configuration for **asia**:

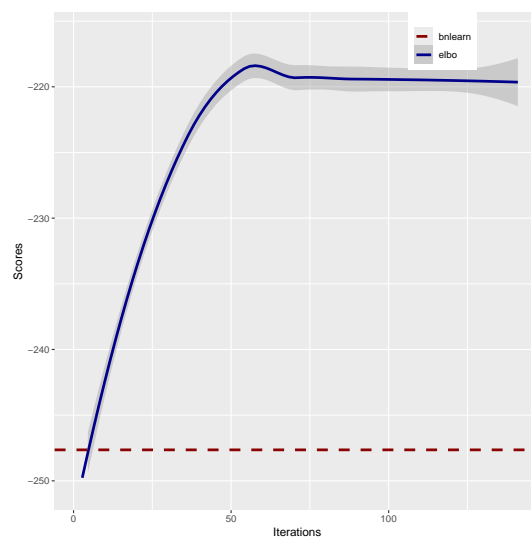
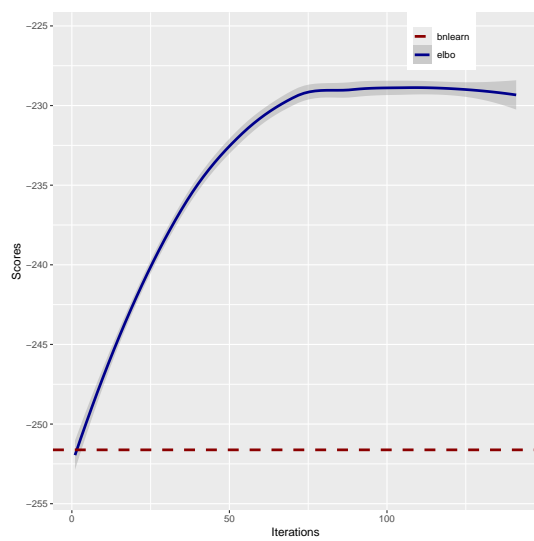
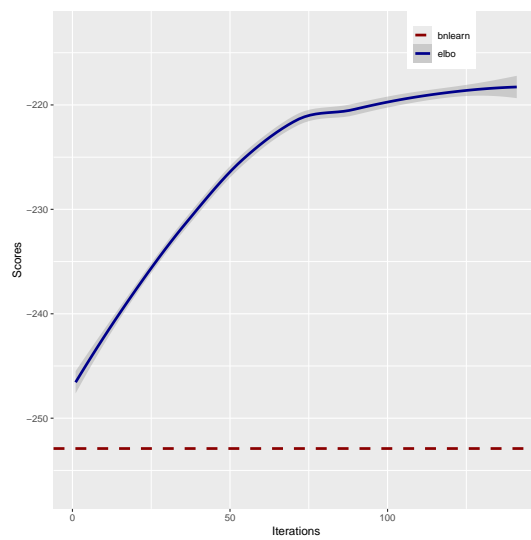
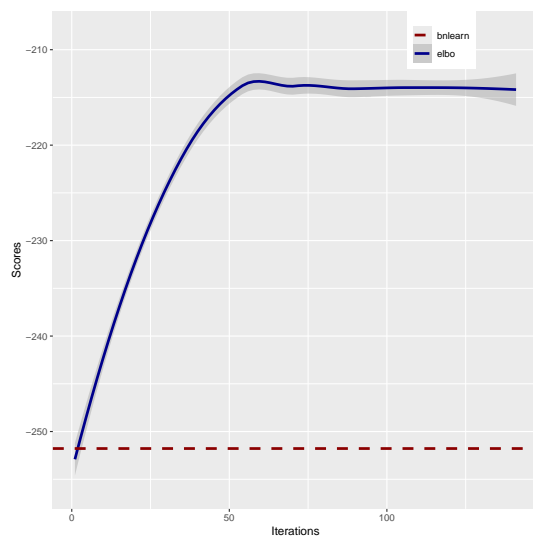
- number of nodes: 8
- number of arcs: 8
- number of parameters: 18
- average degree: 2
- maximum in-degree: 2
- number of samples of train dataset: 100
- number of samples of test dataset: 10000
- number of iterations: 140
- parent sets size: {100}

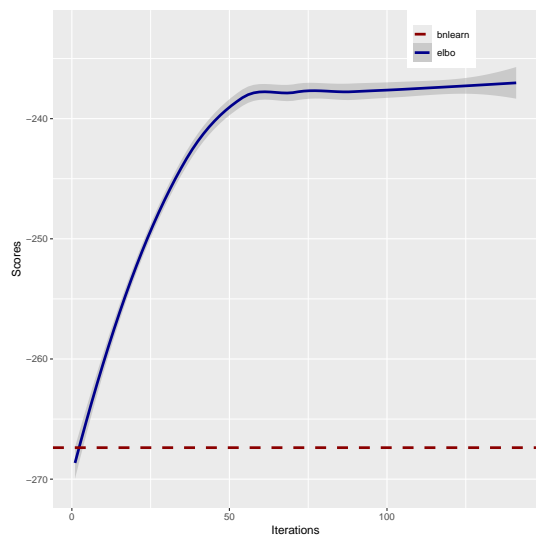
Summary data:

- map train: -223.48 ± 9.45
- map test: -198.38 ± 3.77
- bma train: -196.18 ± 9.32
- bma test: -199.56 ± 11.07
- bnlearn train: -254.26 ± 7.62
- bnlearn test: -233.82 ± 3.87



1.1 Graphics of evolution





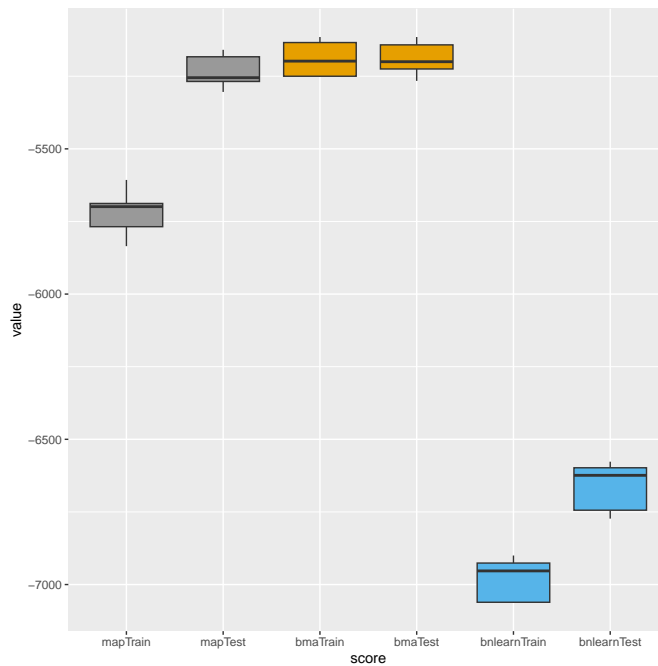
2 Alarm network

Configuration for **alarm**:

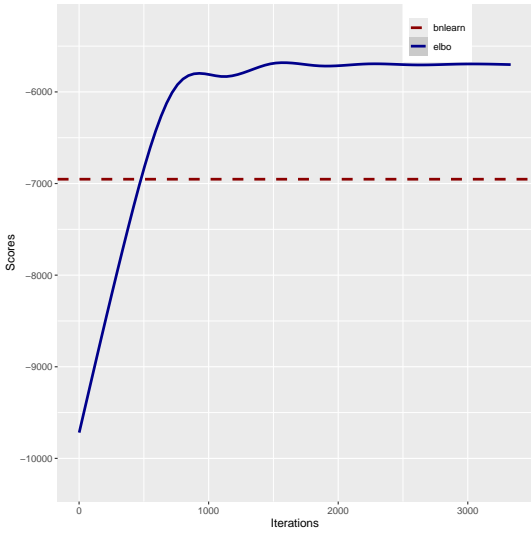
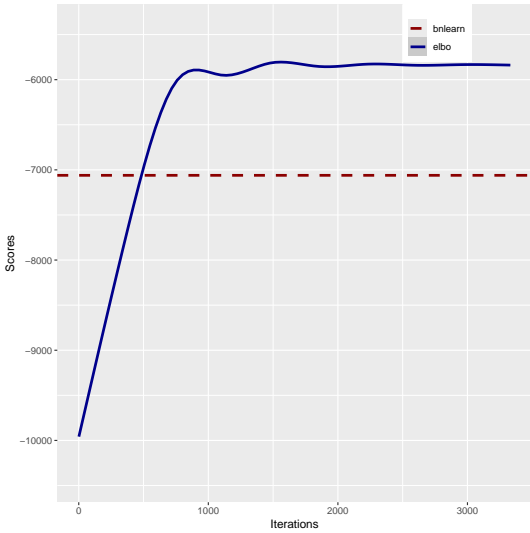
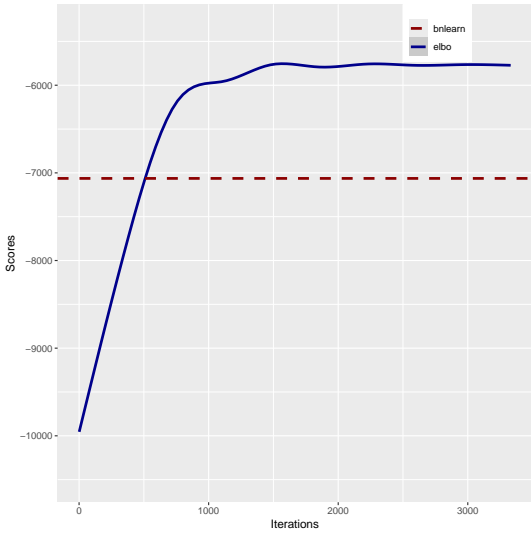
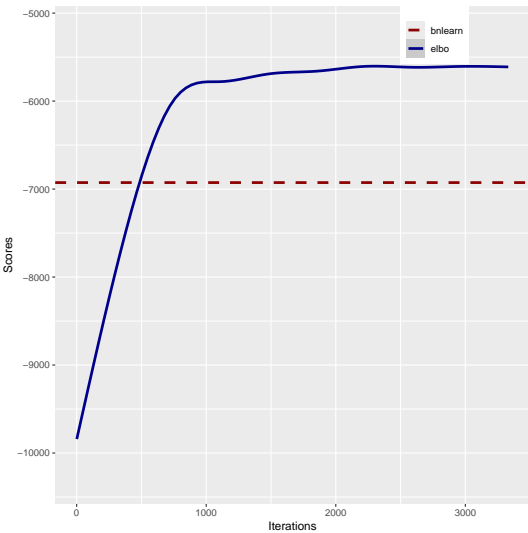
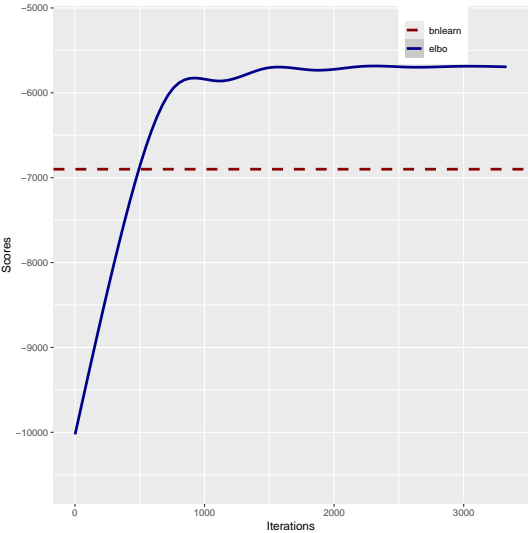
- number of nodes: 37
- number of arcs: 46
- number of parameters: 509
- average degree: 2.49
- maximum in-degree: 4
- number of samples of train dataset: 600
- number of samples of test dataset: 10000
- number of iterations: 3330
- parent sets size: {100}

Summary data:

- map train: -5719.40 ± 86.26
- map test: -5233.80 ± 60.67
- bma train: -5189.80 ± 63.77
- bma test: -5189.60 ± 61.30
- bnlearn train: -6980.60 ± 76.64
- bnlearn test: -6663.20 ± 89.17



2.1 Graphics of evolution



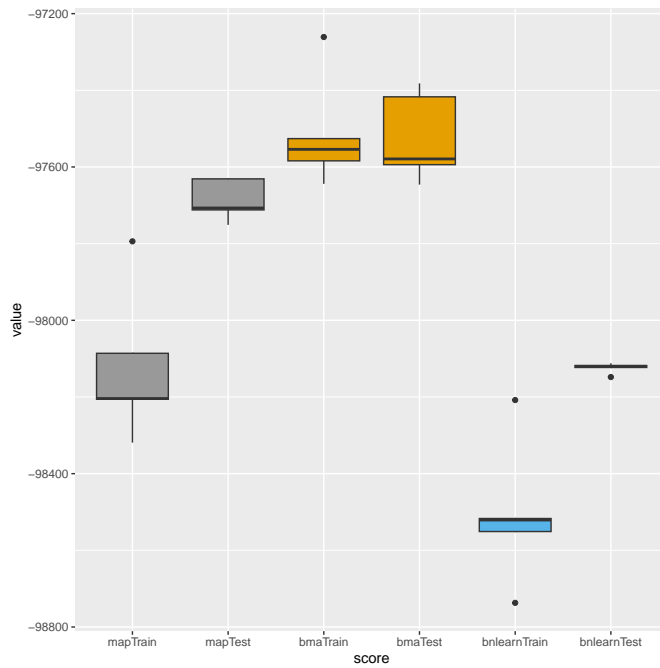
3 Hepar2

Configuration for **hepar2**:

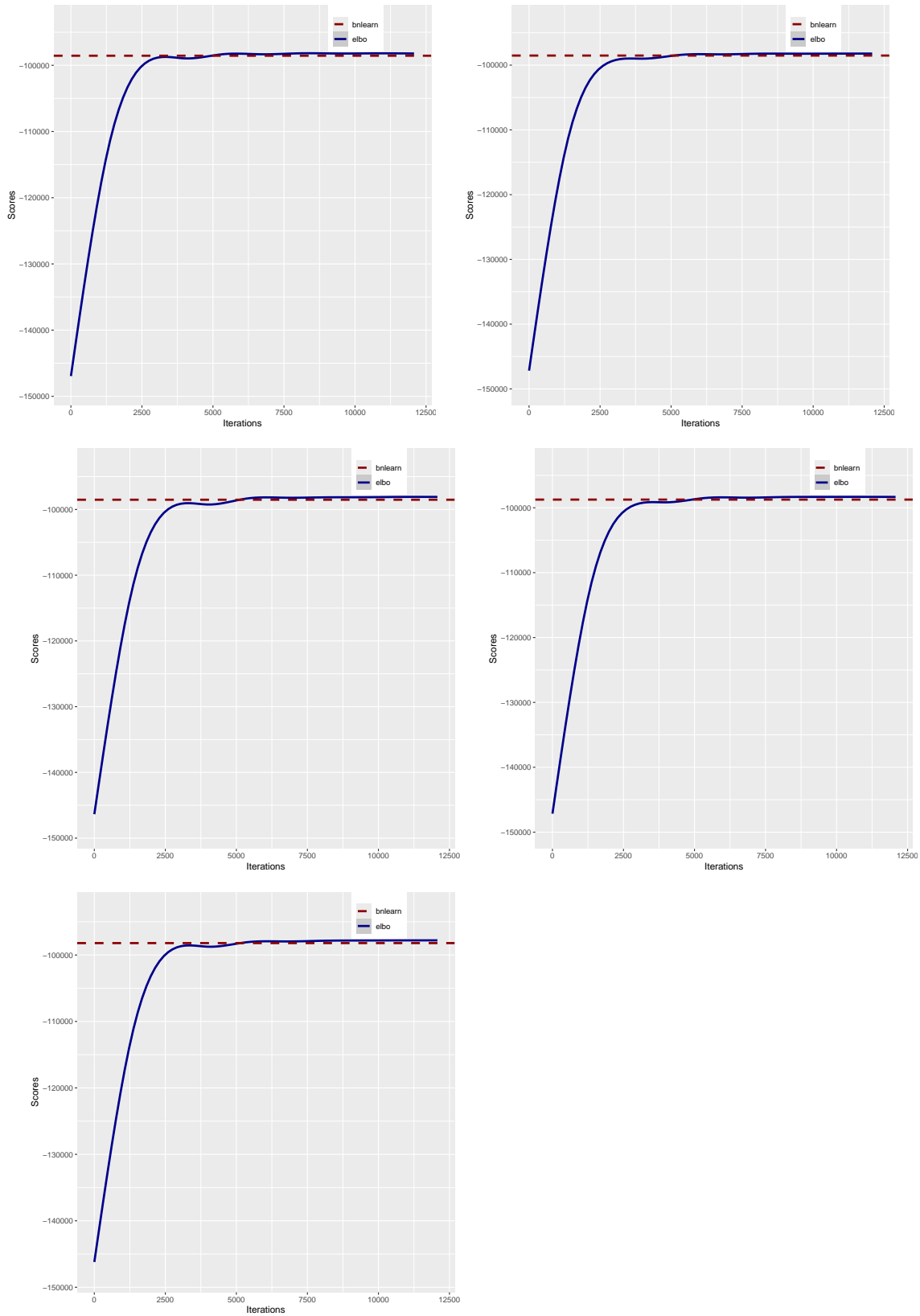
- number of nodes: 70
- number of arcs: 123
- number of parameters: 1453
- average degree: 3.51
- maximum in-degree: 6
- number of samples of train dataset: 3000
- number of samples of test dataset: 10000
- number of iterations: 12075
- parent sets size: {100}

Summary data:

- map train: -98121.80 ± 200.92
- map test: -97686.00 ± 53.89
- bma train: -97513.80 ± 147.95
- bma test: -97523.60 ± 116.64
- bnlearn train: -98506.80 ± 190.09
- bnlearn test: -98124.20 ± 13.90



3.1 Graphics of evolution



4 Win95pts

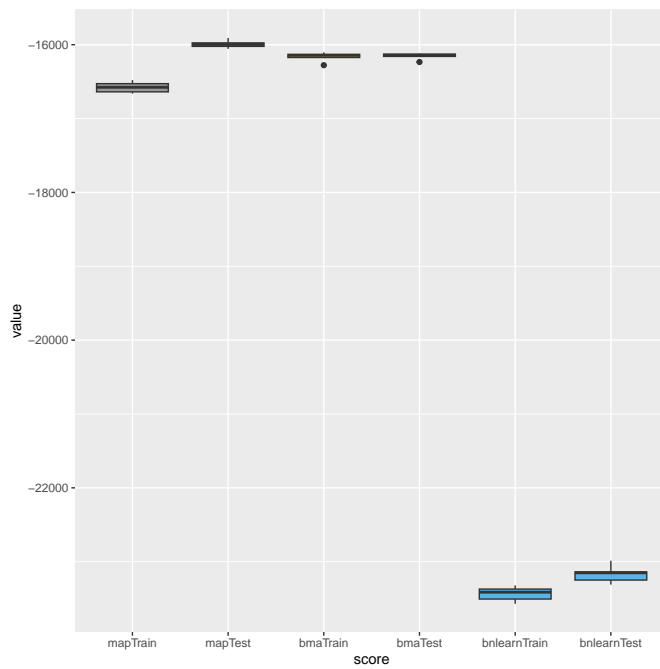
Configuration for **win95pts**:

- number of nodes: 76

- number of arcs: 112
- number of parameters: 574
- average degree: 2.95
- maximum in-degree: 7
- number of samples of train dataset: 2500
- number of samples of test dataset: 10000
- number of iterations: 14250
- parent sets size: {100}

Summary data:

- map train: -16576.40 ± 75.91
- map test: -15991.40 ± 55.58
- bma train: -16165.40 ± 67.25
- bma test: -16156.00 ± 46.21
- bnlearn train: -23436.40 ± 100.75
- bnlearn test: -23167.00 ± 123.16



4.1 Graphics of evolution

