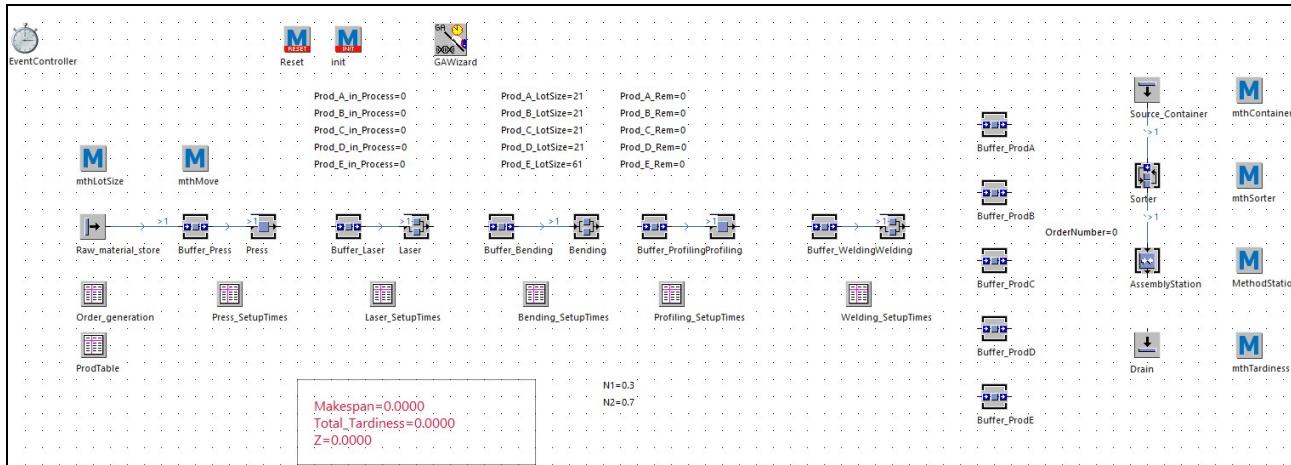




General Information

- Model file: C:\Users\soora\Documents\MSLP\Assignment1\FILES\Final\Task3\Assignment 1 R11 Task 3 Sim2.spp
- GAWizard: .Models.Model.GAWizard
- Generated on: 2026-01-24 14:08:27.7790
- Running time of the optimization: 1:12.2190

Model



.Models.Model

Optimization results

Best Fitness: 23:33:37.0149

The parameters of the best solution are set in the model.

Fitness calculation

root.Z with weighting 1

Best parameter of the allocation problems



root.Prod_A_LotSize: 21
 root.Prod_B_LotSize: 21
 root.Prod_C_LotSize: 21
 root.Prod_D_LotSize: 21
 root.Prod_E_LotSize: 61

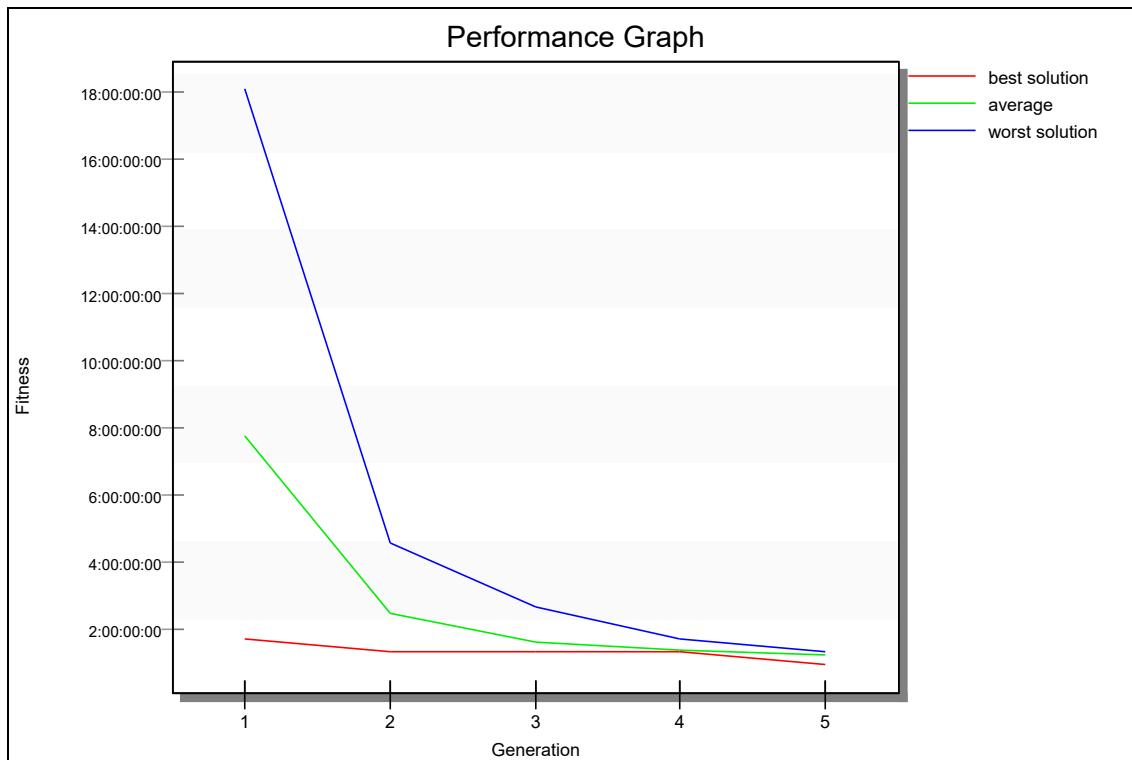
Best solutions of the sequence problems



.Models.Model.ProdTable

2, 4, 3, 1, 5

Evolution of the fitness values of the generations



Settings

Definition of optimization parameter

Parameter:	root.Prod_A_LotSize
Lower bound	1
Upper bound	100
Increment	20

Parameter:	root.Prod_B_LotSize
Lower bound	1
Upper bound	100
Increment	20

Parameter:	root.Prod_C_LotSize
Lower bound	1
Upper bound	100
Increment	20

Parameter:	root.Prod_D_LotSize
Lower bound	1
Upper bound	100
Increment	20

Parameter:	root.Prod_E_LotSize
Lower bound	1
Upper bound	100
Increment	20

Parameter:	root.ProdTable
Sequence of	root.ProdTable
5 Elements	

Settings of the Genetic Algorithm

Direction of the Optimization: Minimum

Number of Generations: 5

Size of Generation: 10

Observations per individual: 5

Generated individuals

The Genetic Algorithm generated 90 individuals.

The search for equal individuals is performed.

Number of multiple generated individuals: 3

The penalty method was not applied.

Number of evaluated individuals: 87

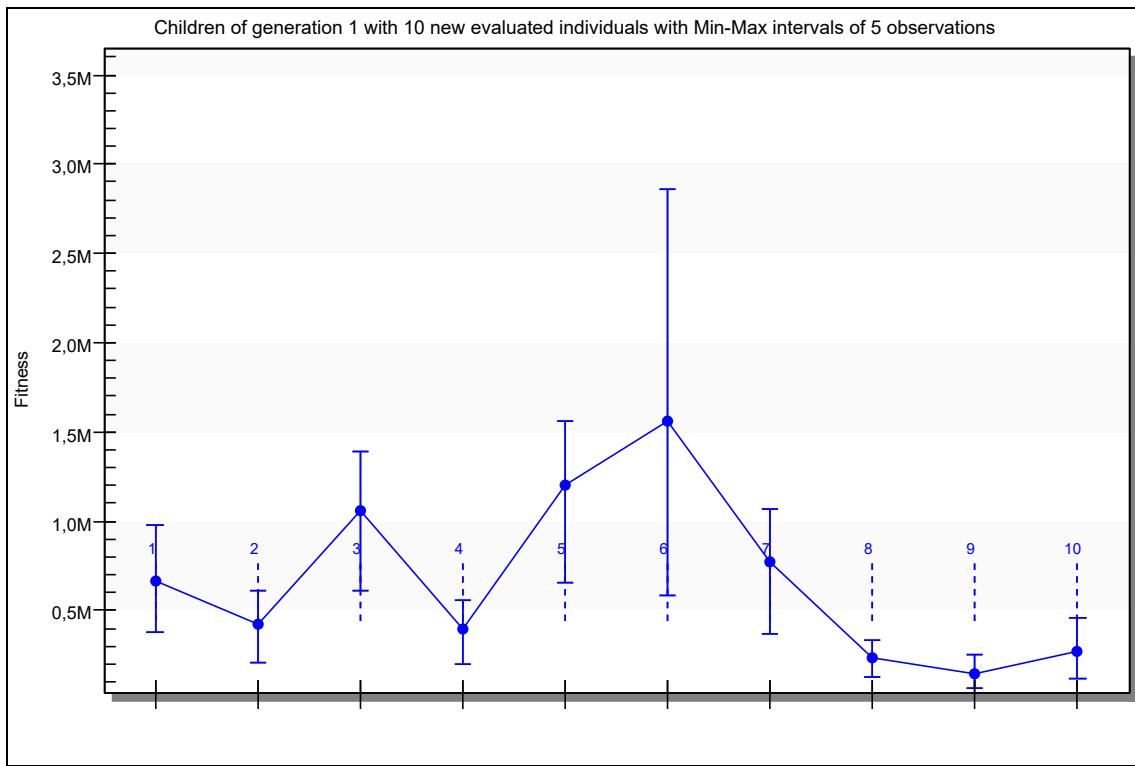
Observations per individual: 5

435 simulation runs are performed.

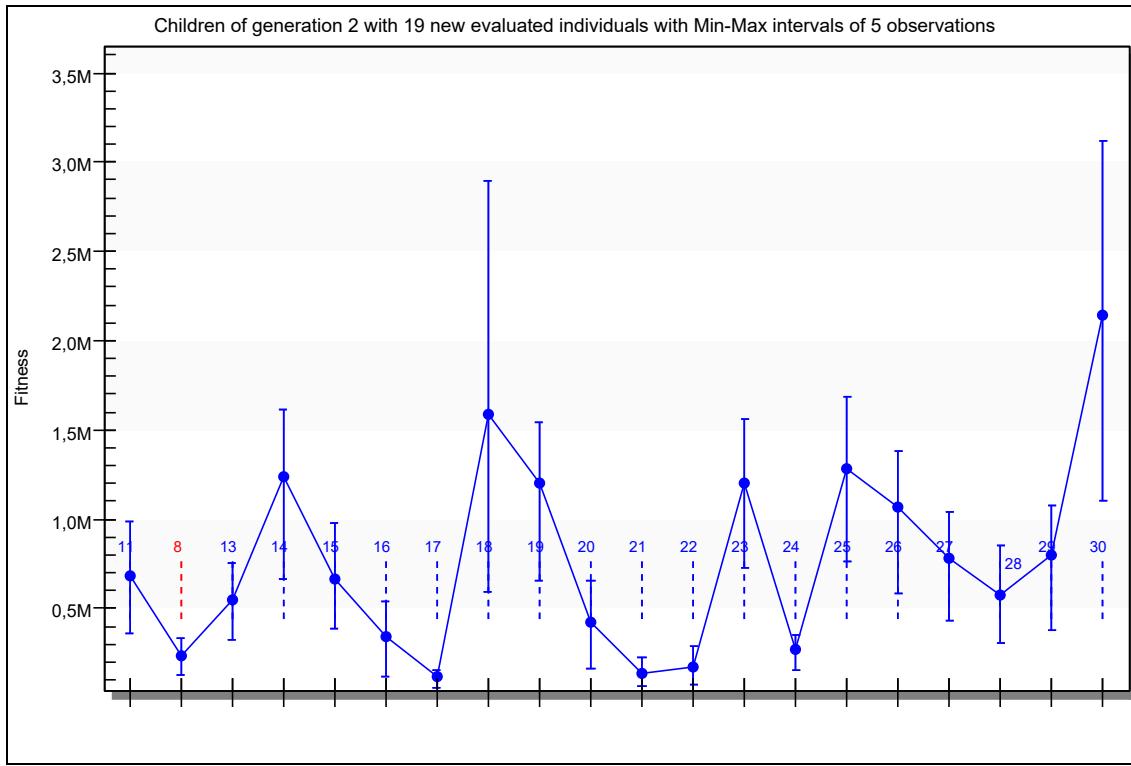
Children of all generations

Children of all generations with Min-Max intervals of 5 observations

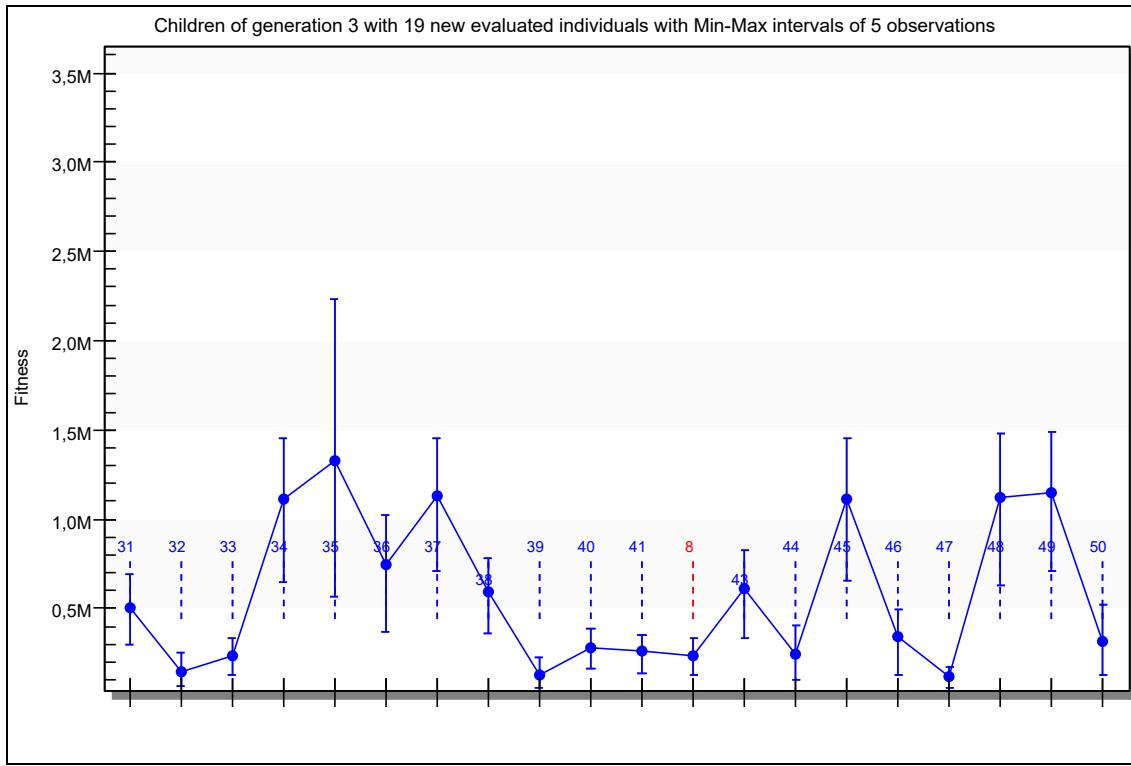
Generation 1



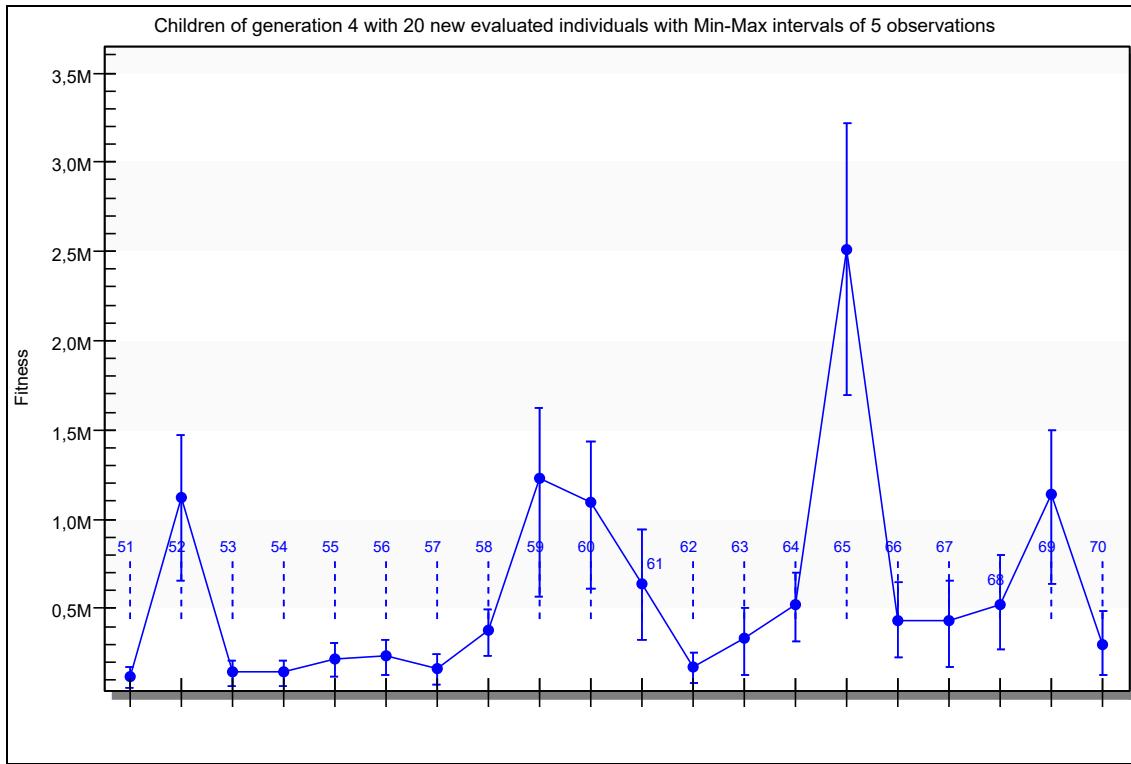
Generation 2



Generation 3



Generation 4



Generation 5

