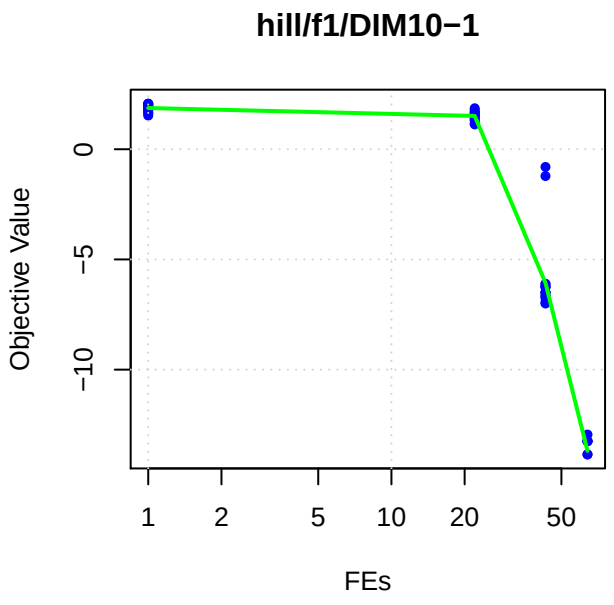
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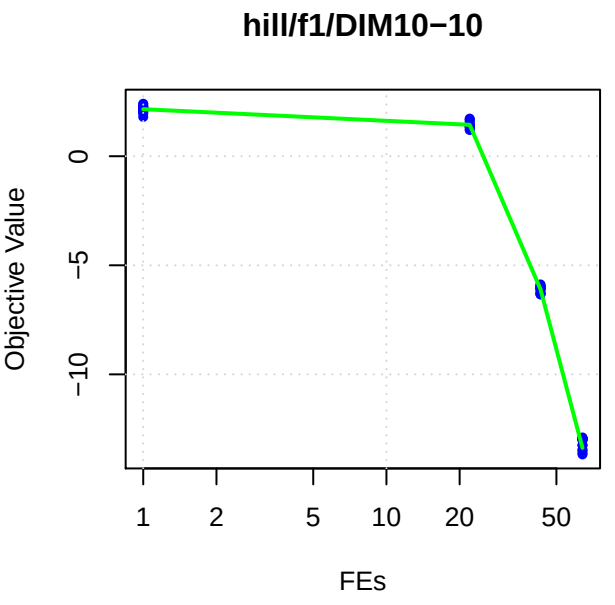
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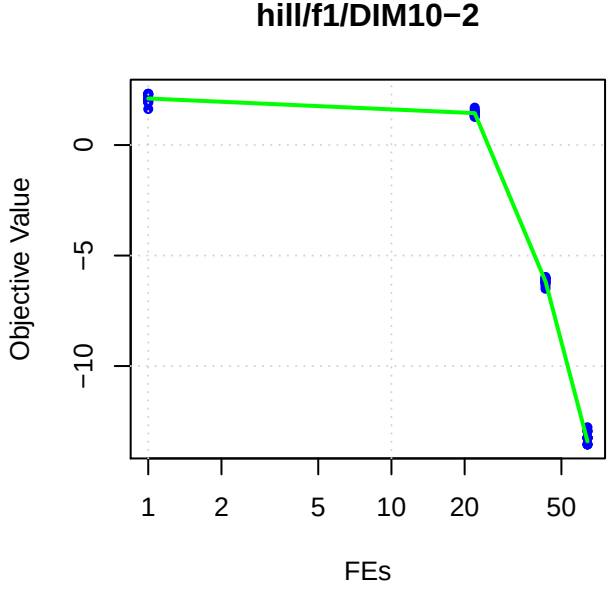
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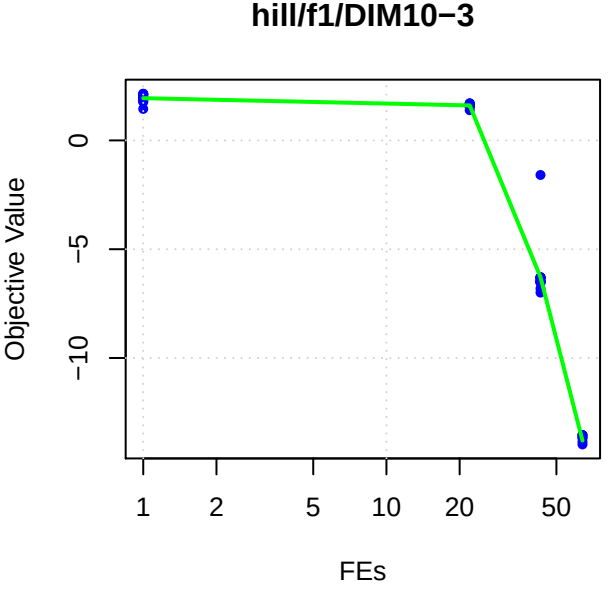
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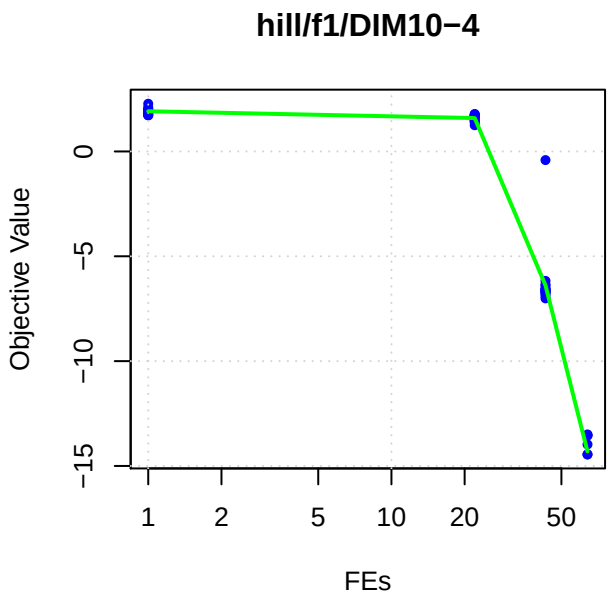
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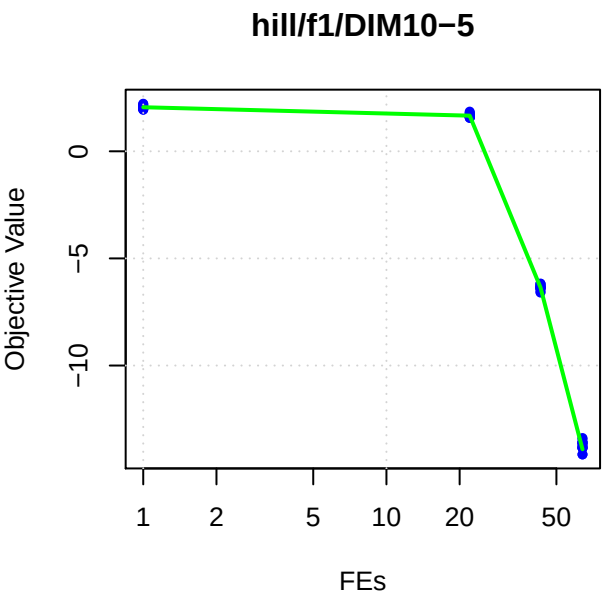
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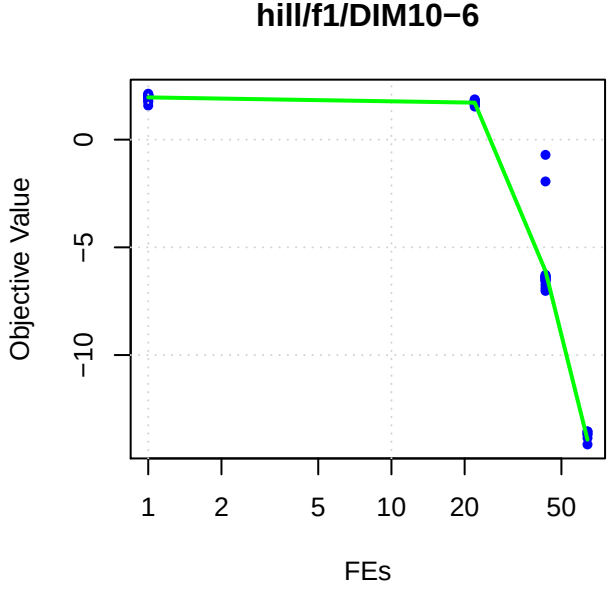
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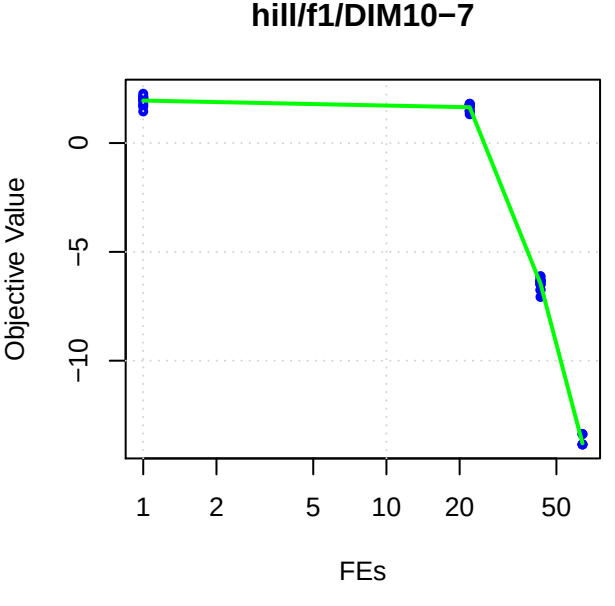
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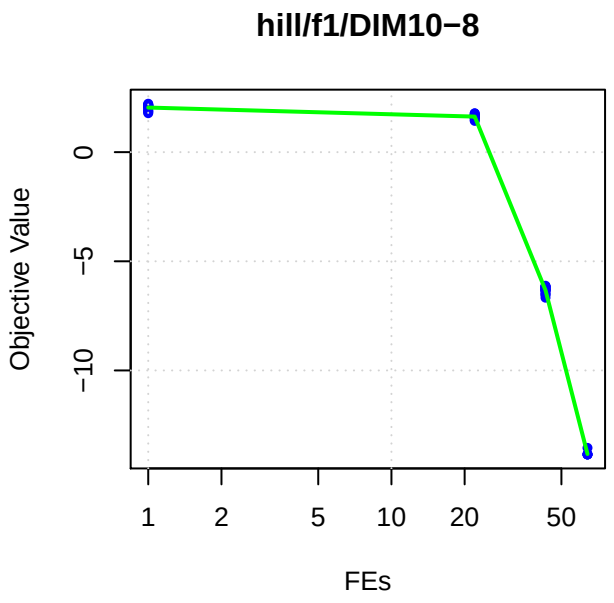
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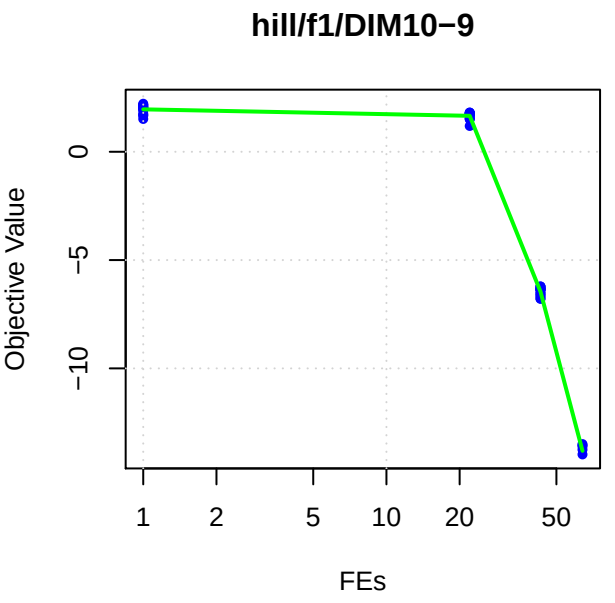
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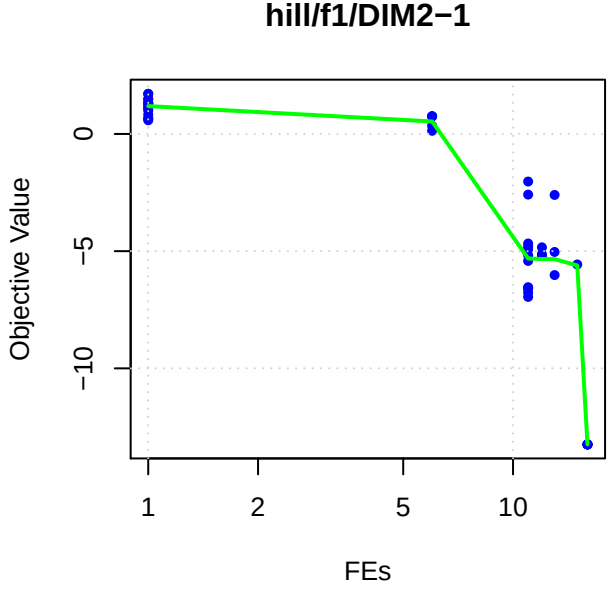
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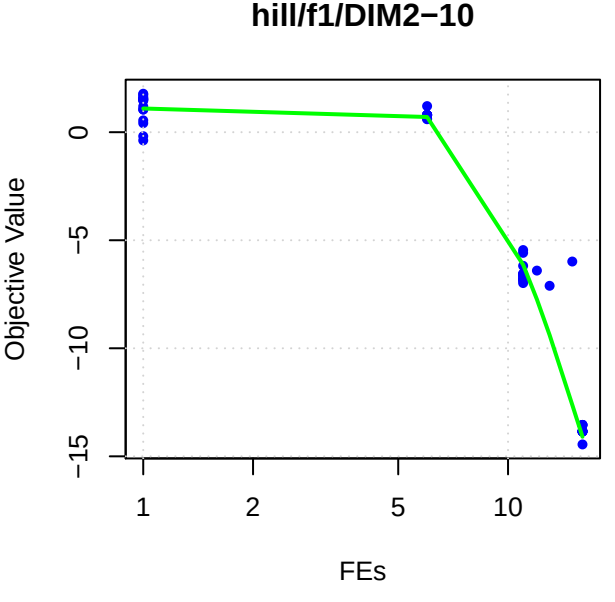
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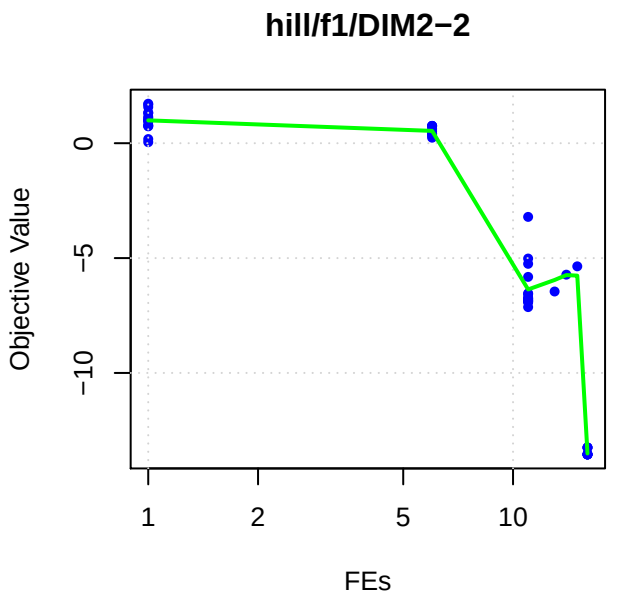
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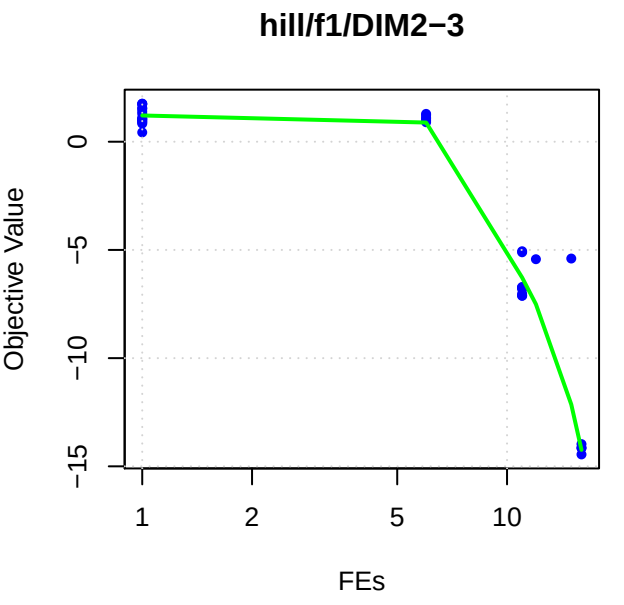
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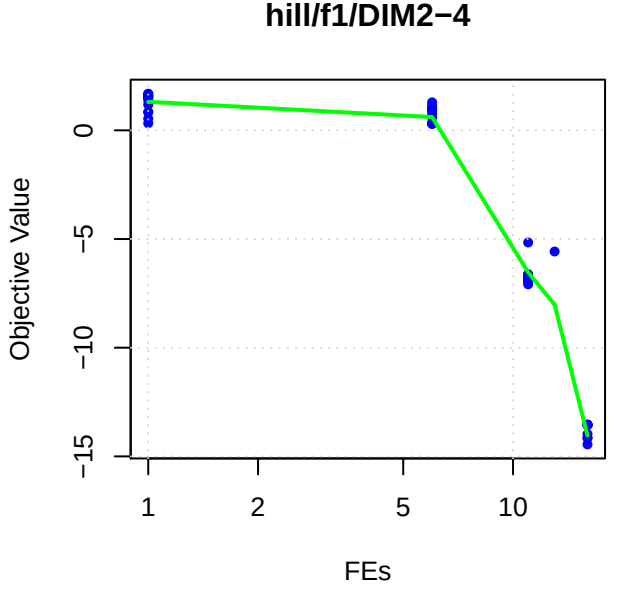
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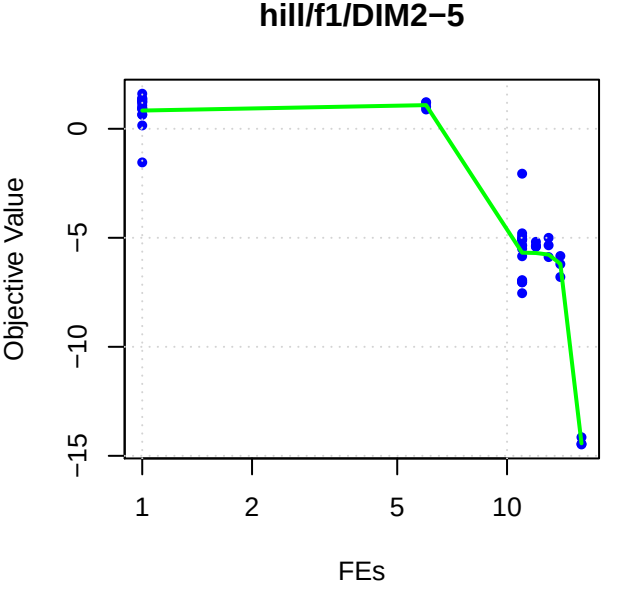
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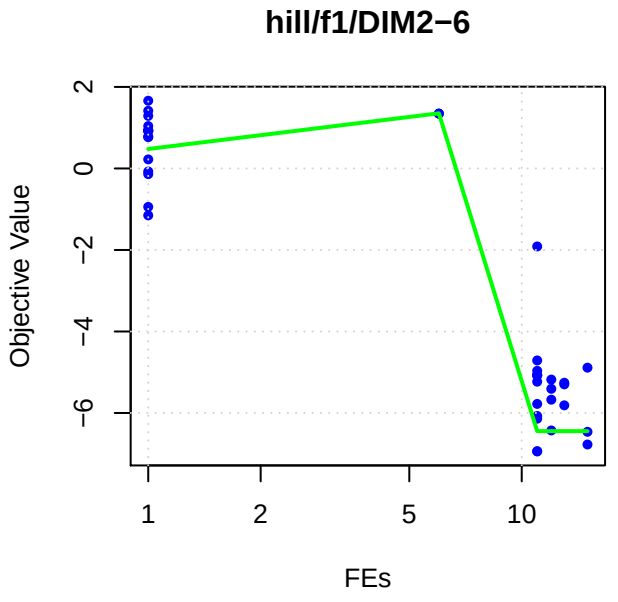
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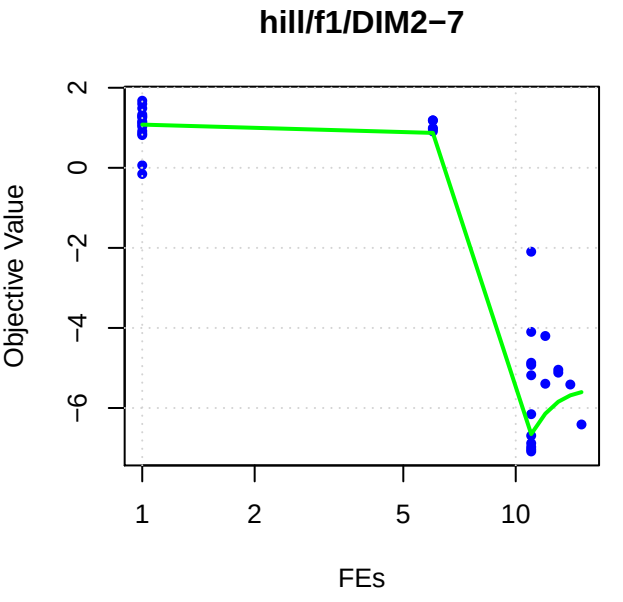
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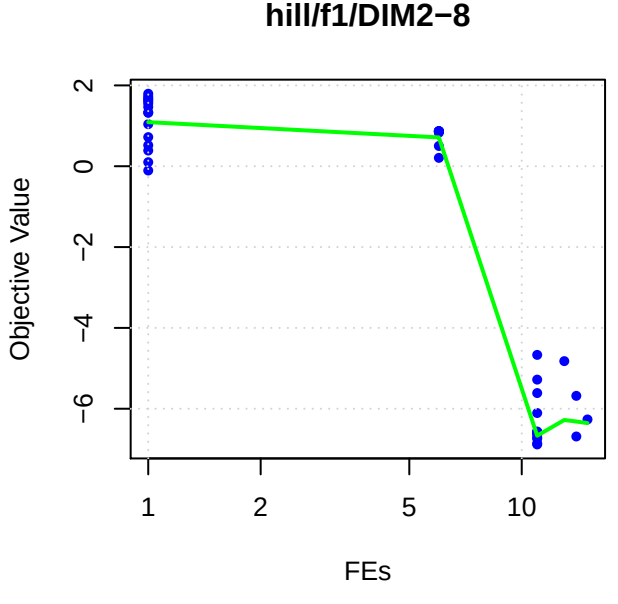
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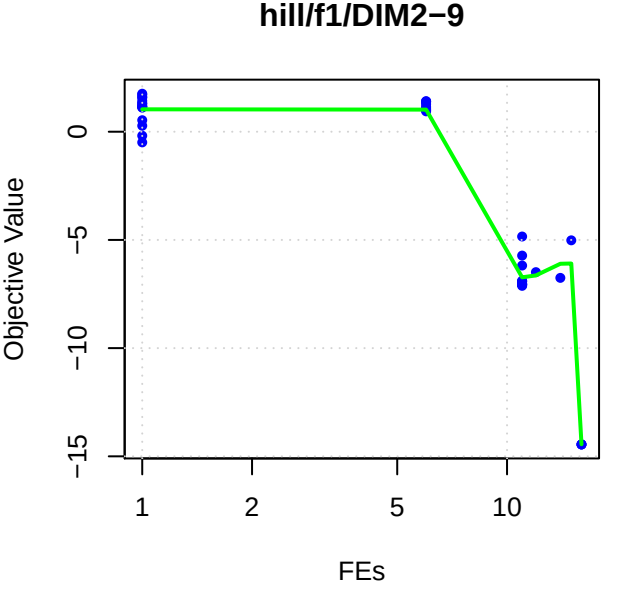
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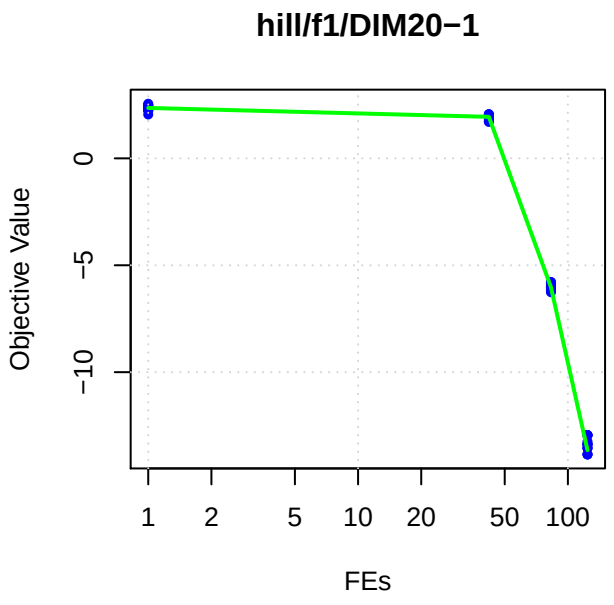
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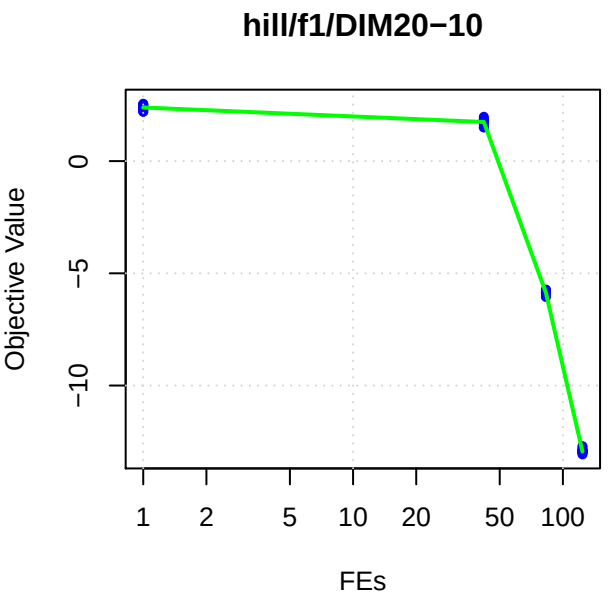
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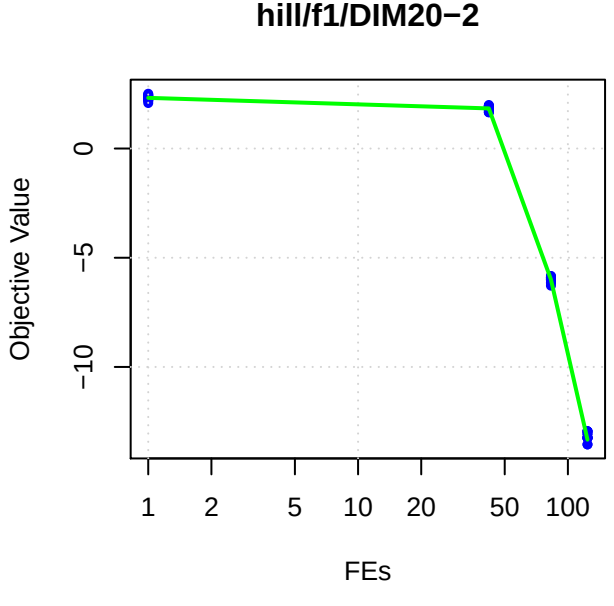
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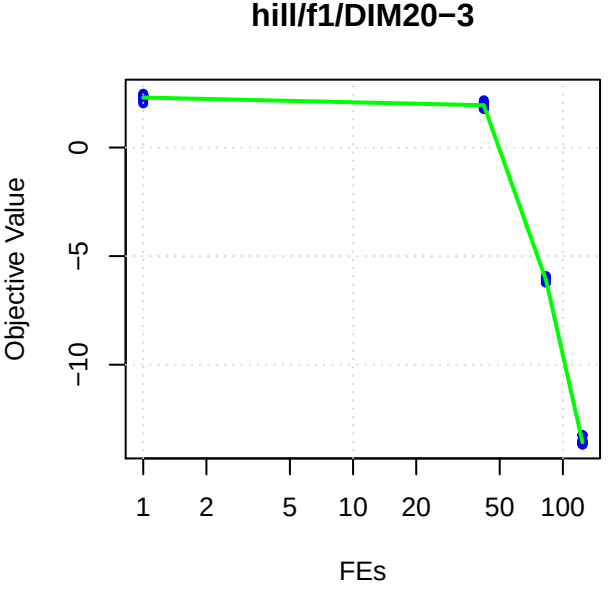
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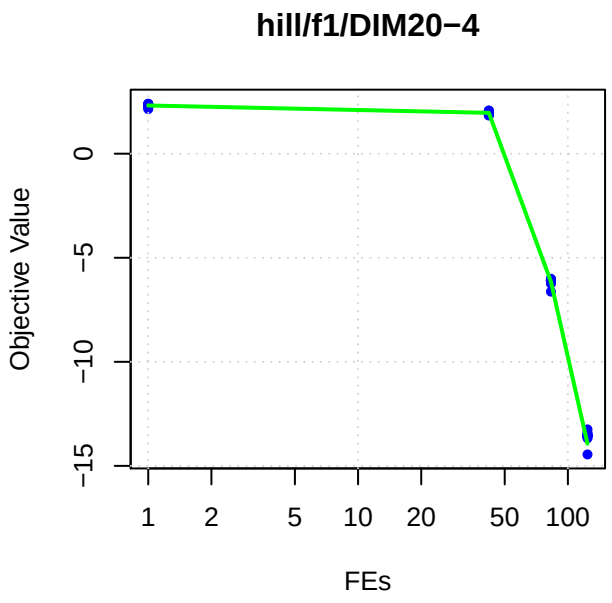
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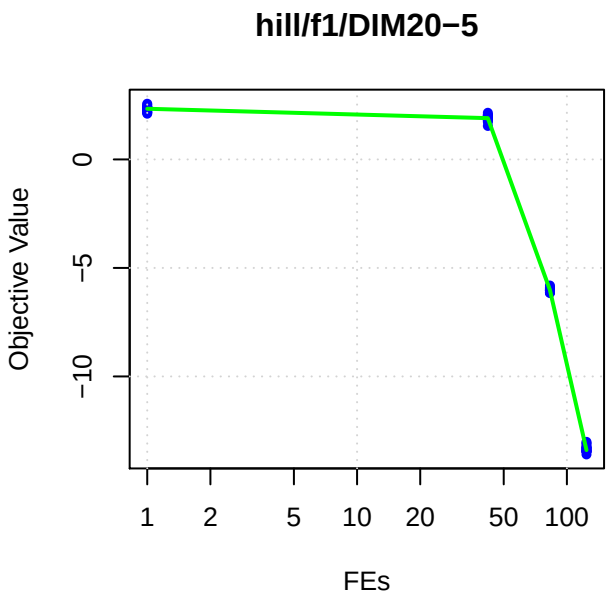
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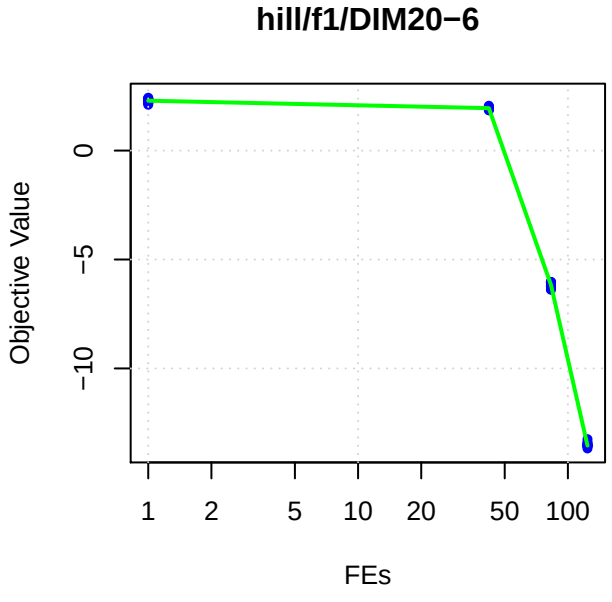
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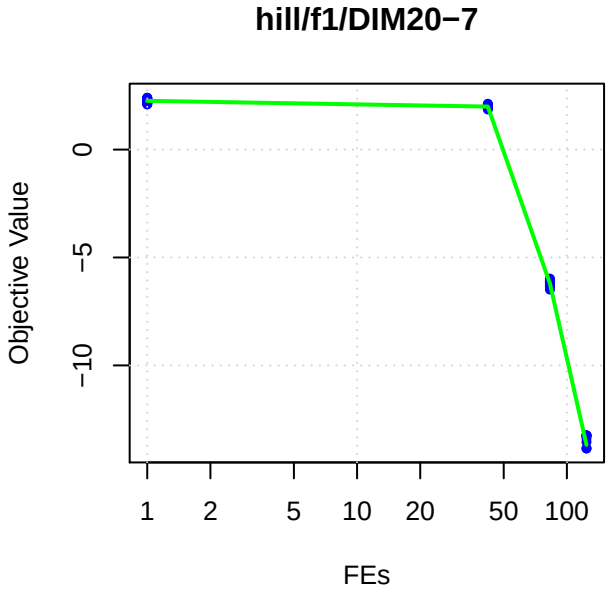
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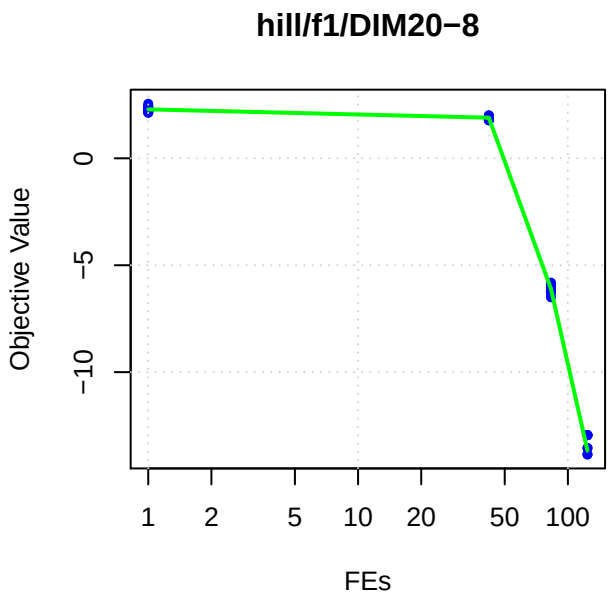
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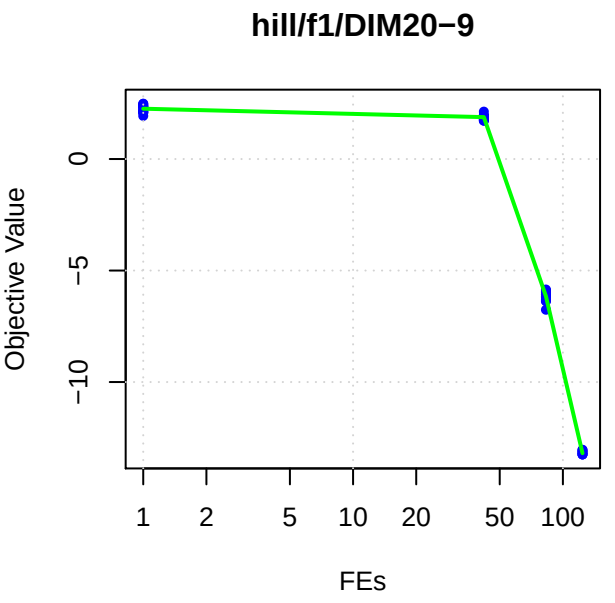
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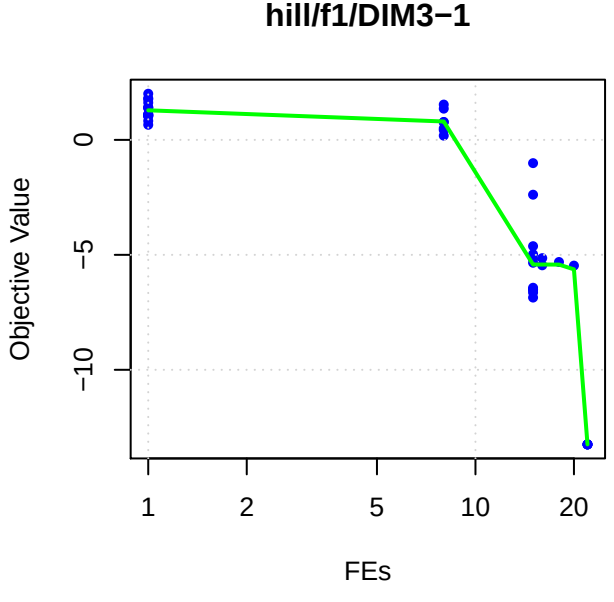
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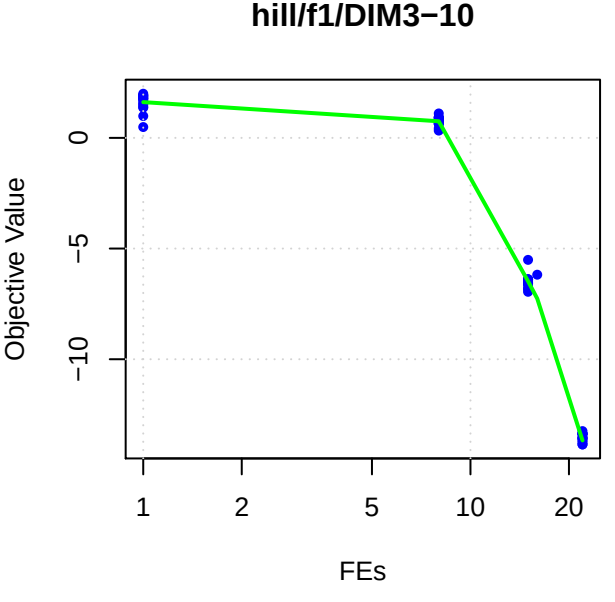
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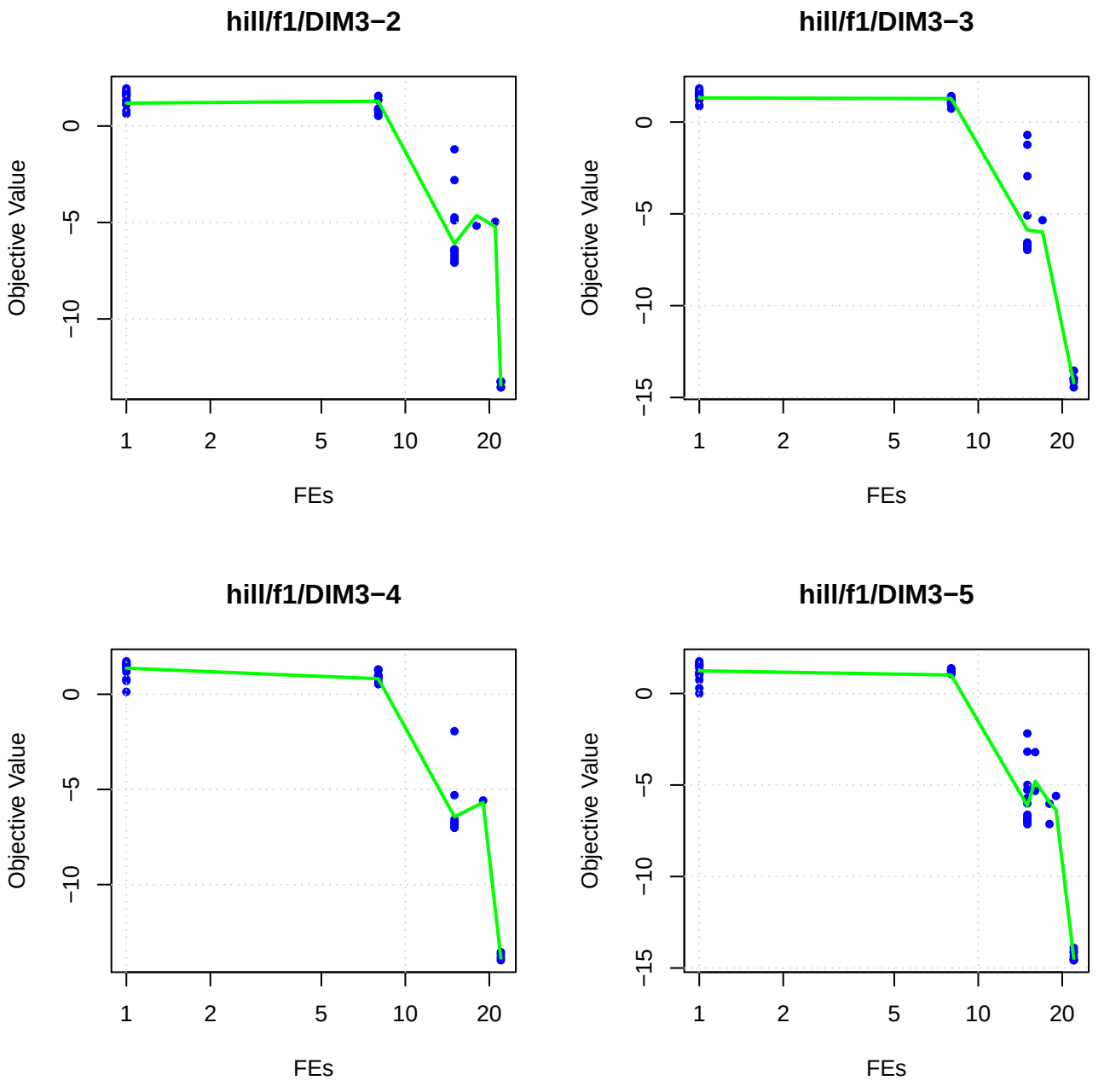
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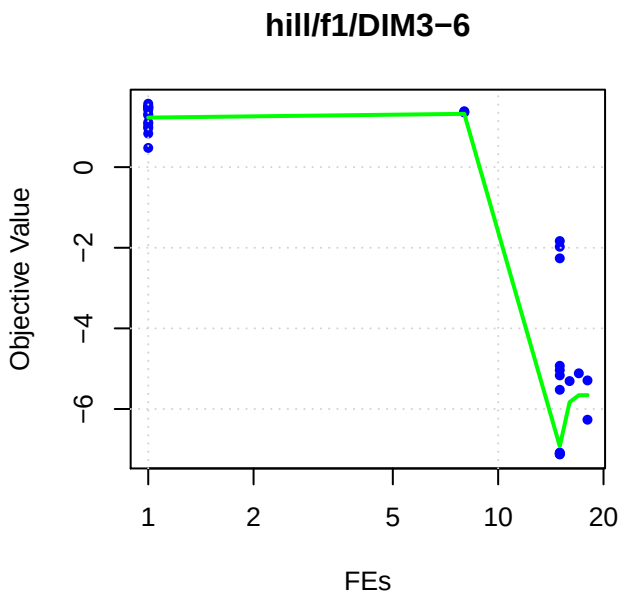
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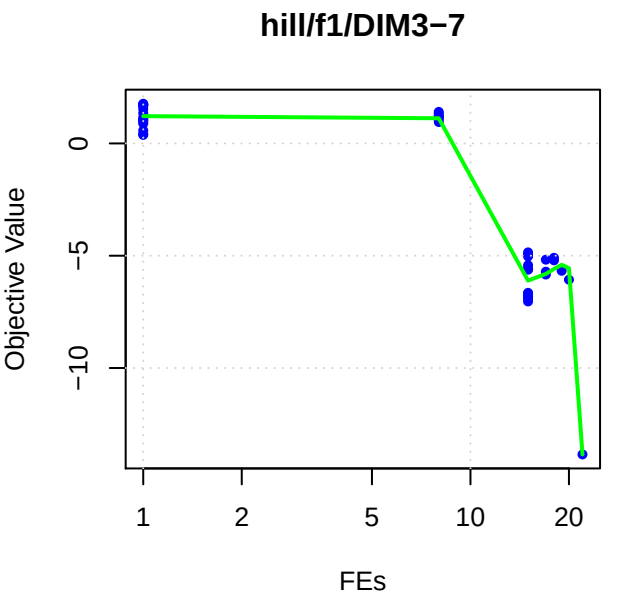
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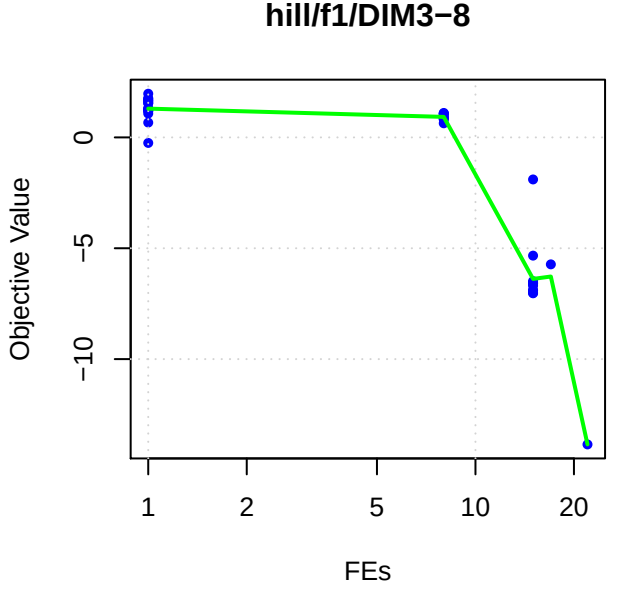
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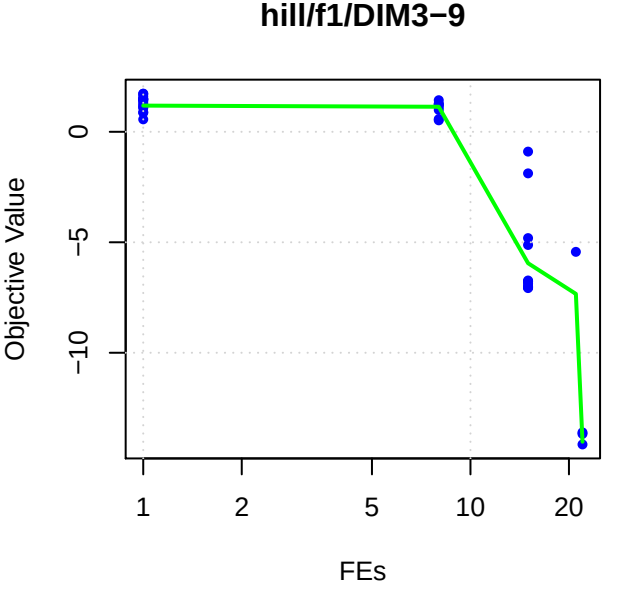
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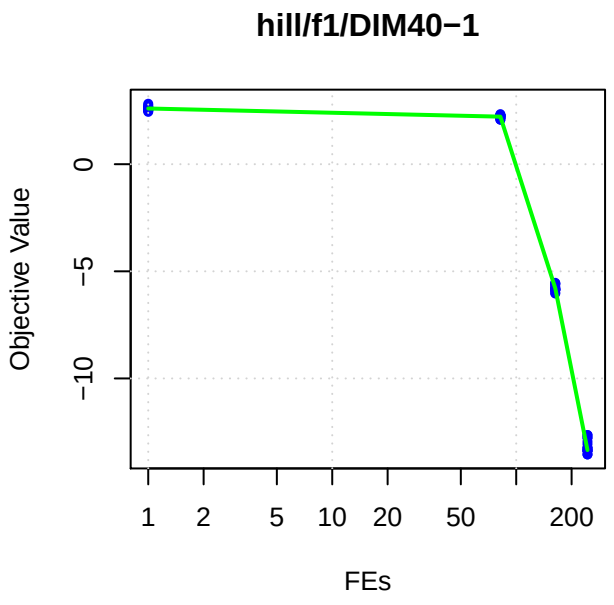
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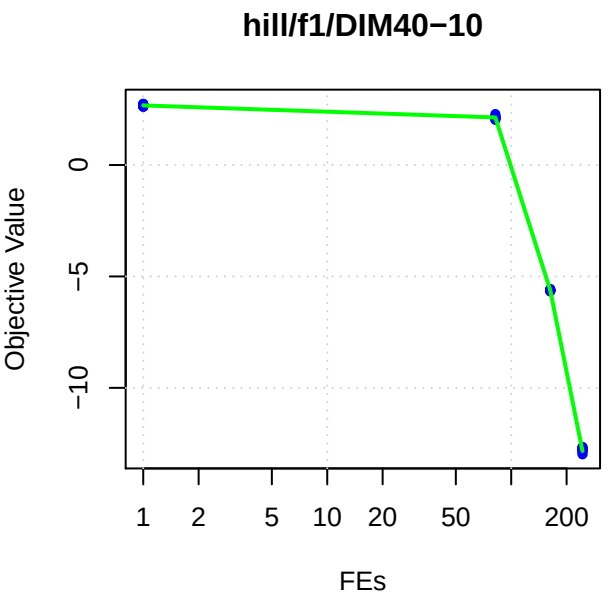
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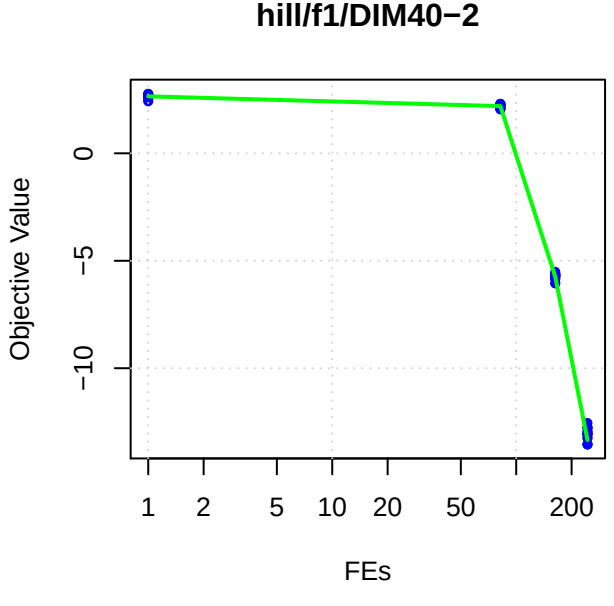
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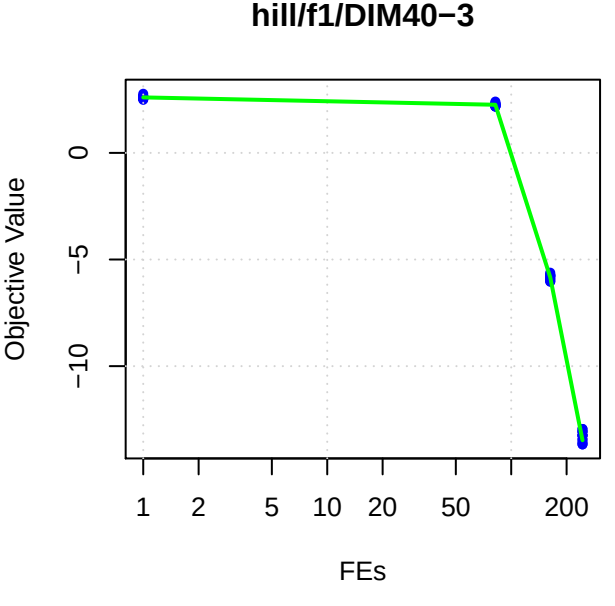
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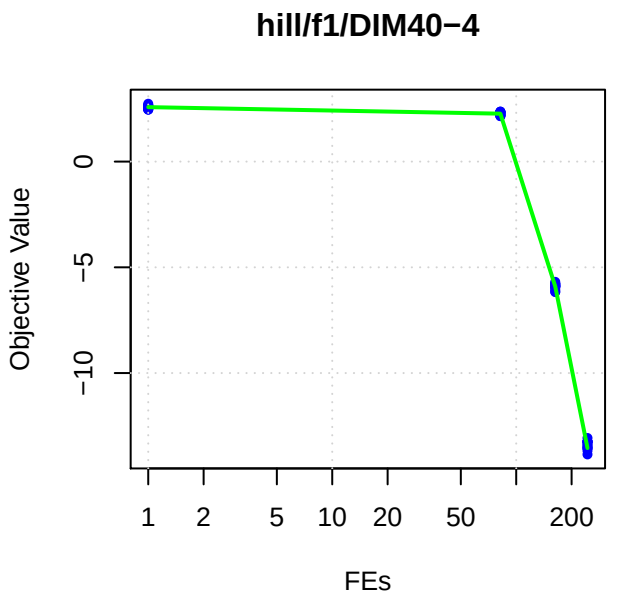
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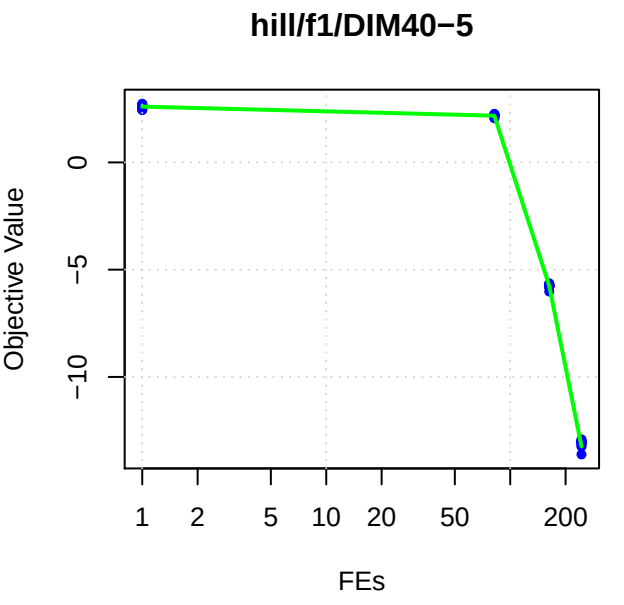
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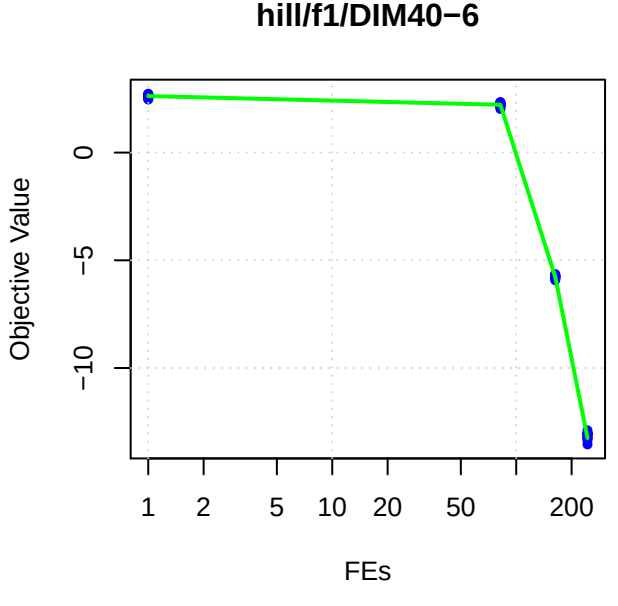
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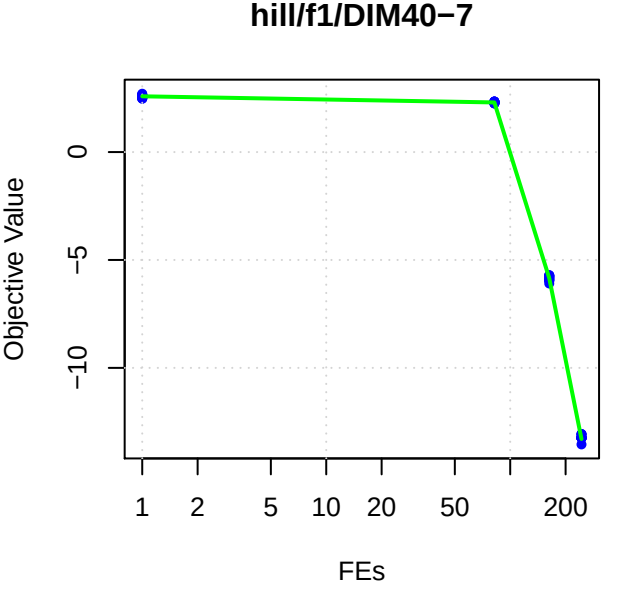
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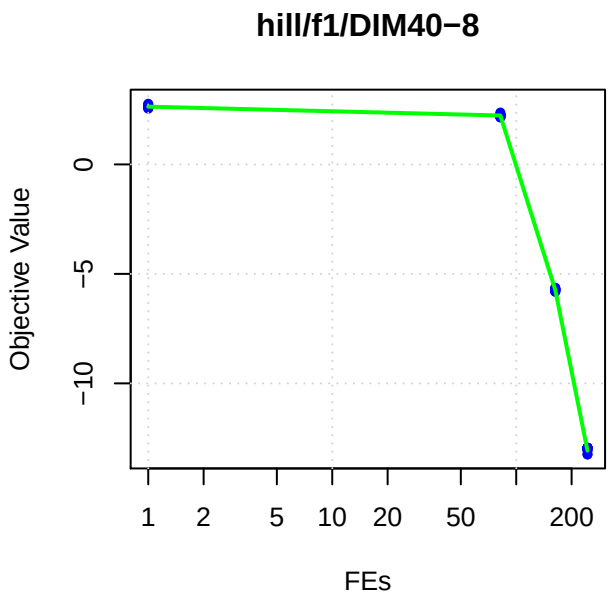
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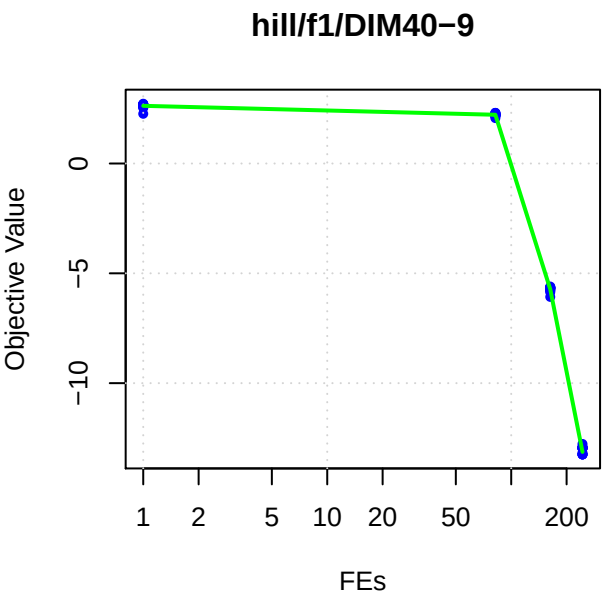
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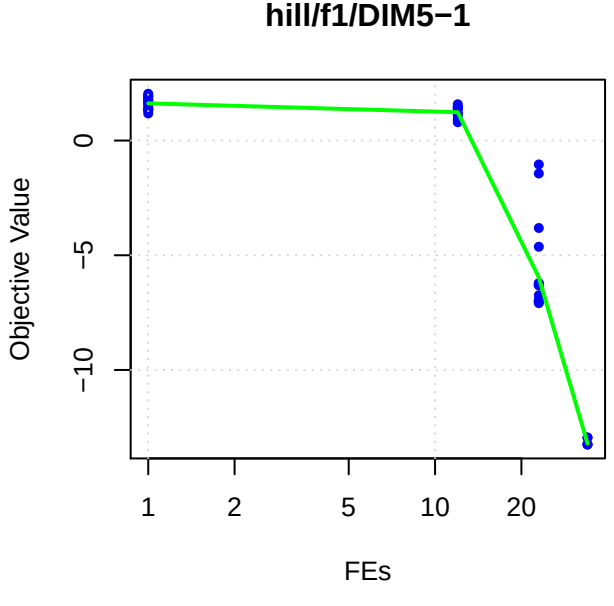
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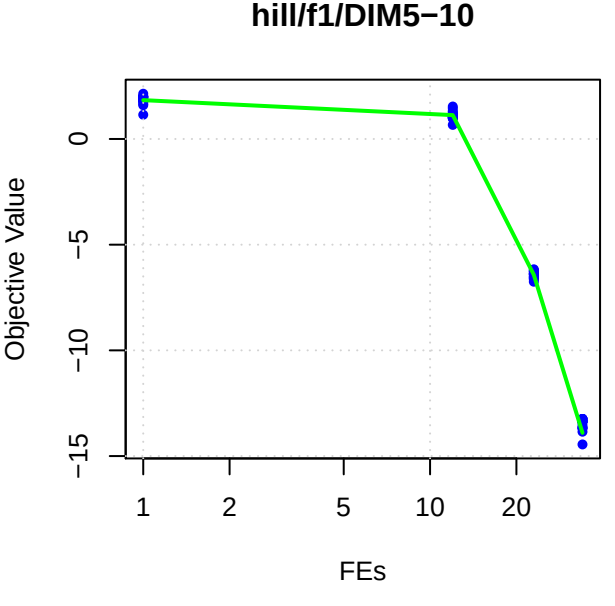
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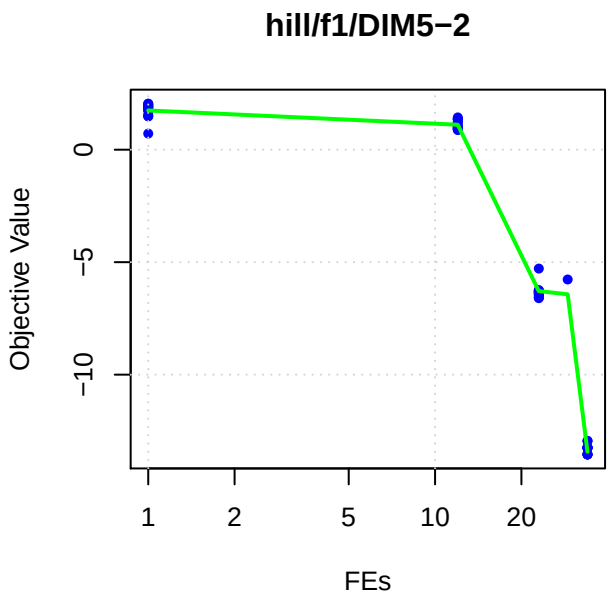
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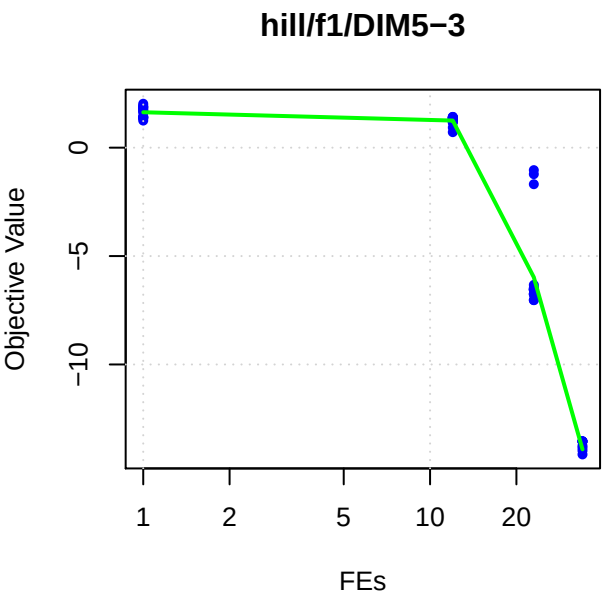
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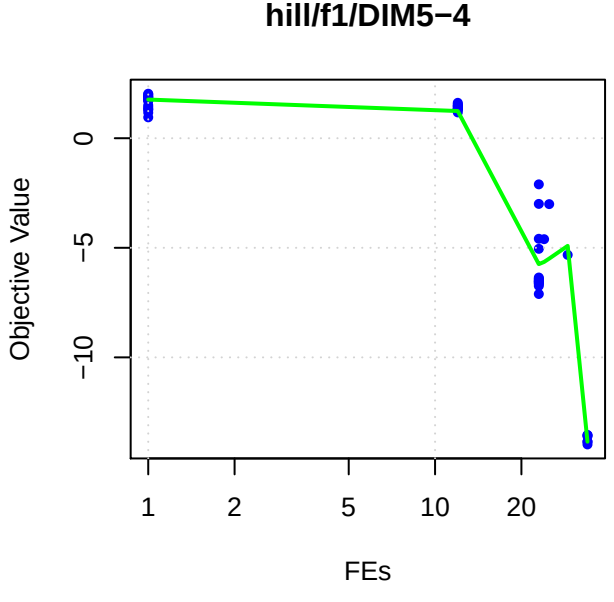
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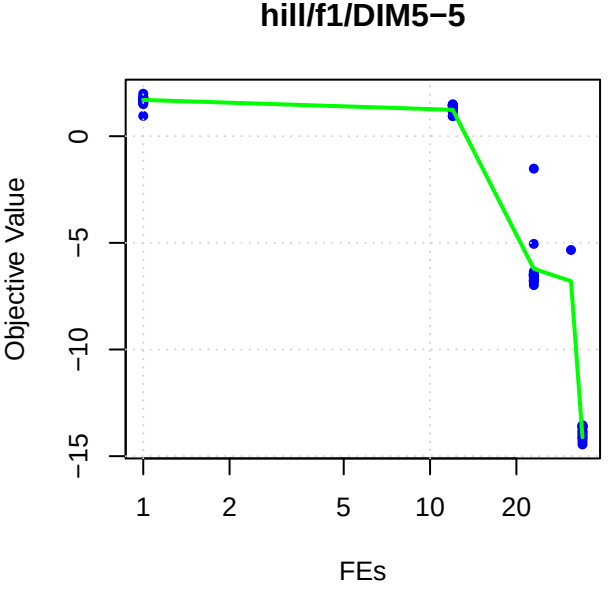
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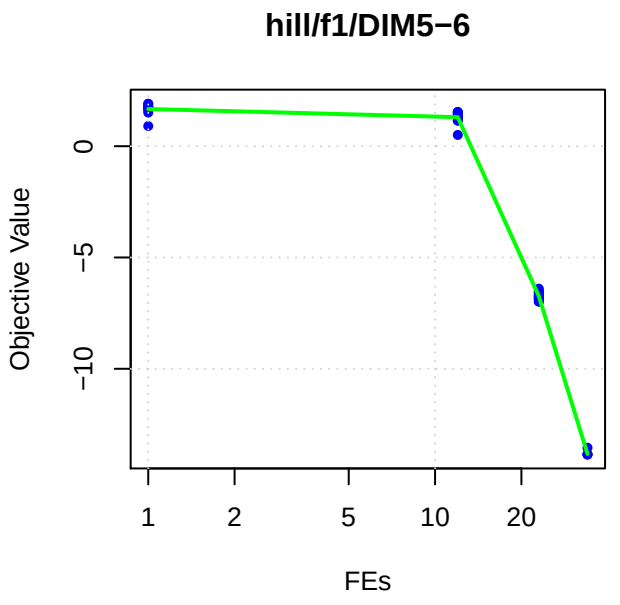
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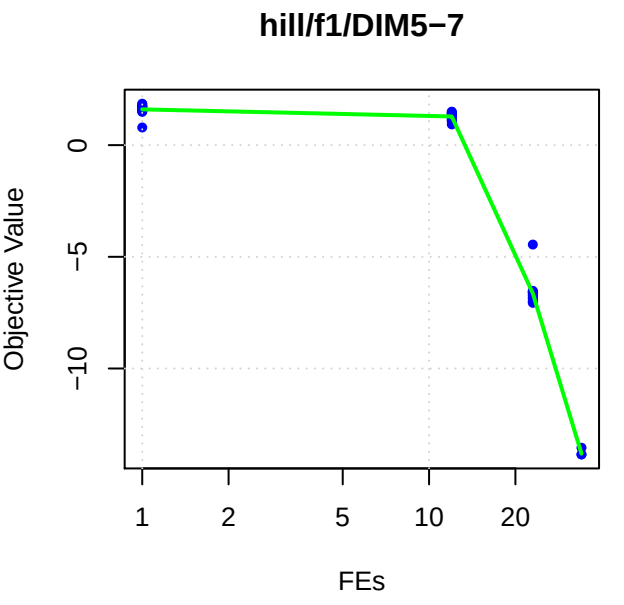
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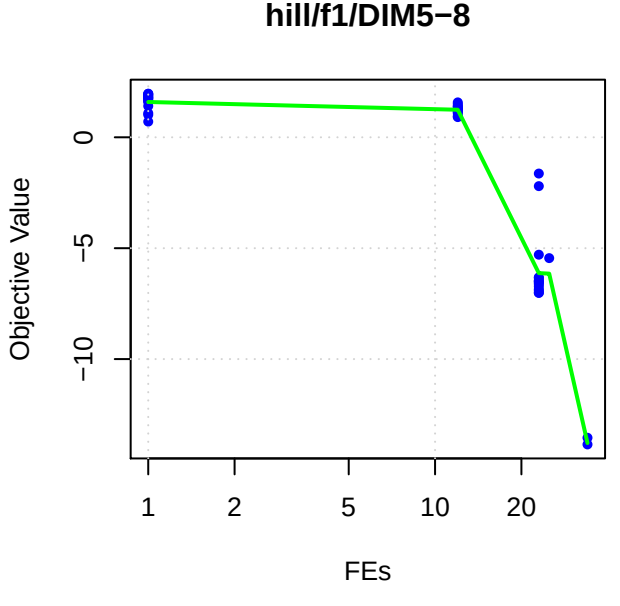
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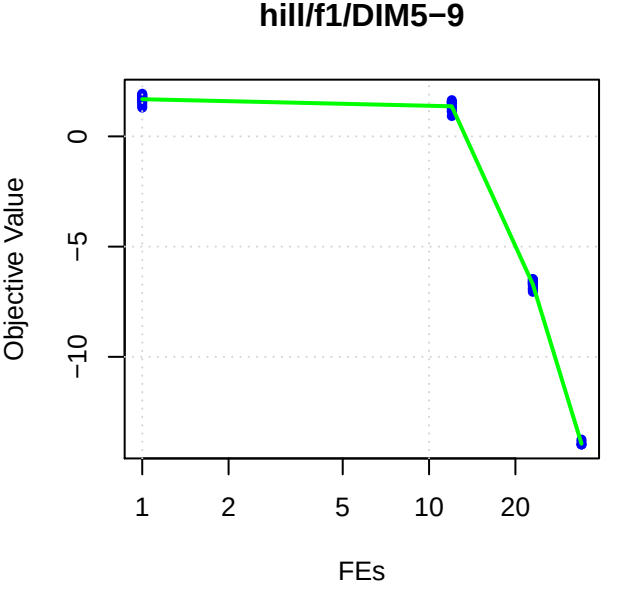
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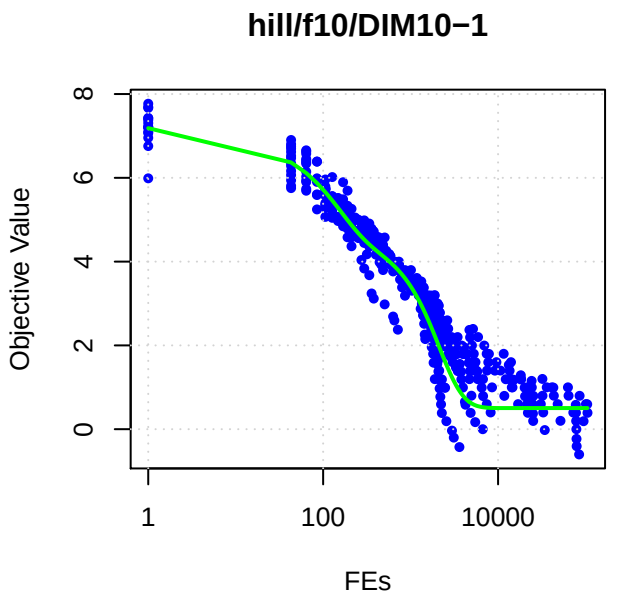
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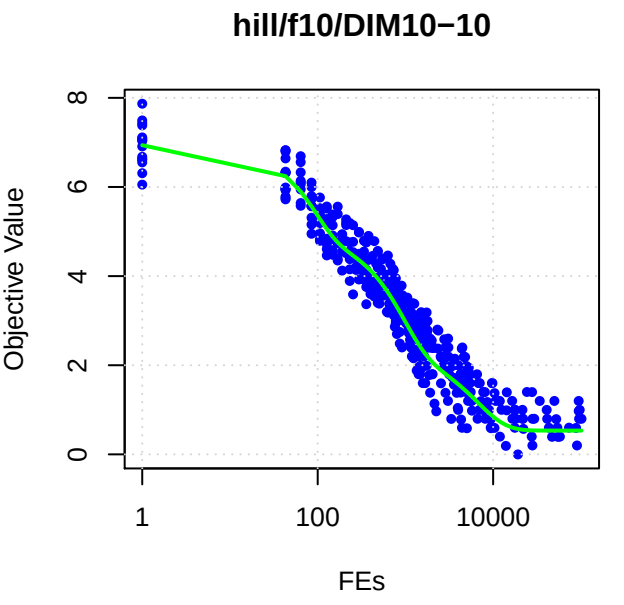
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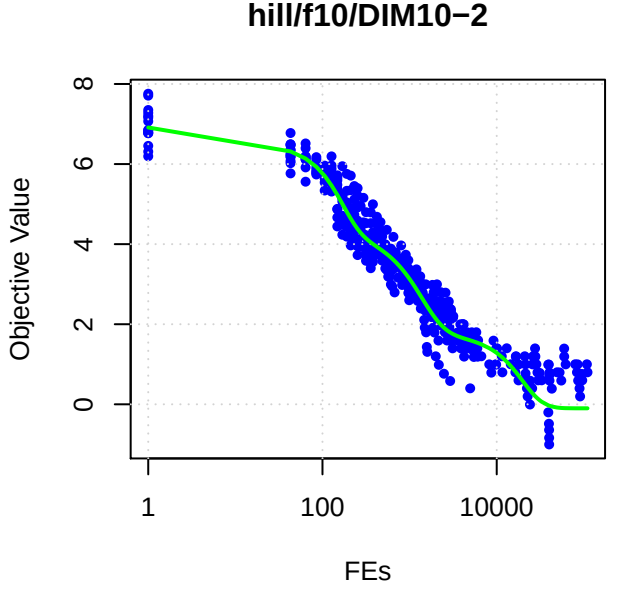
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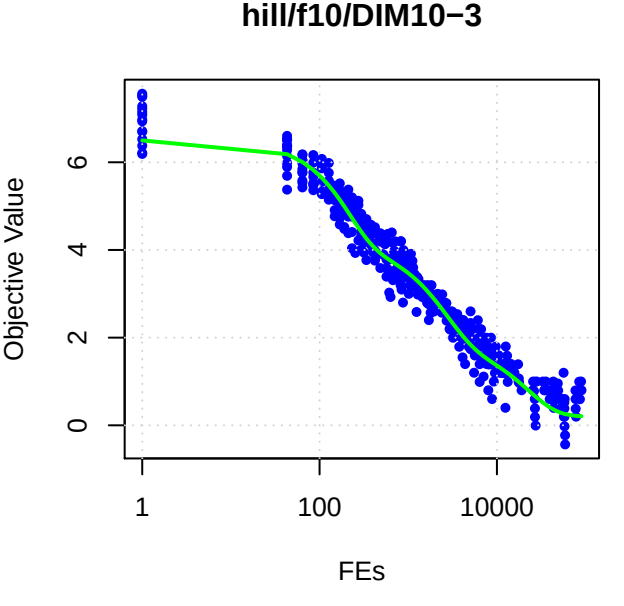
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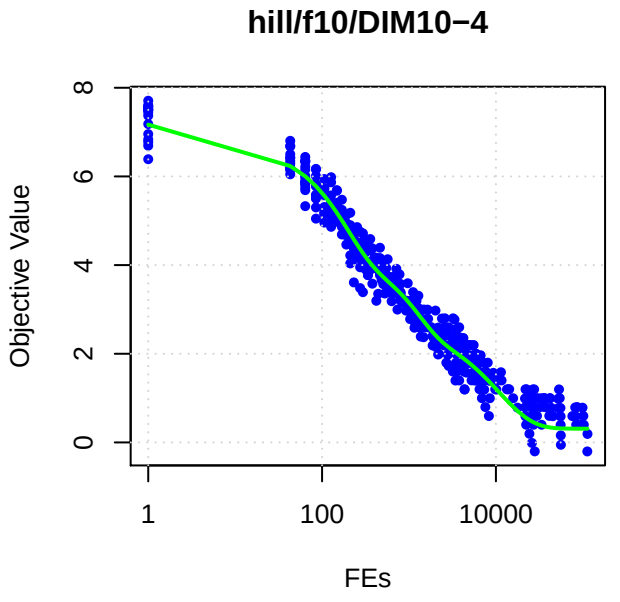
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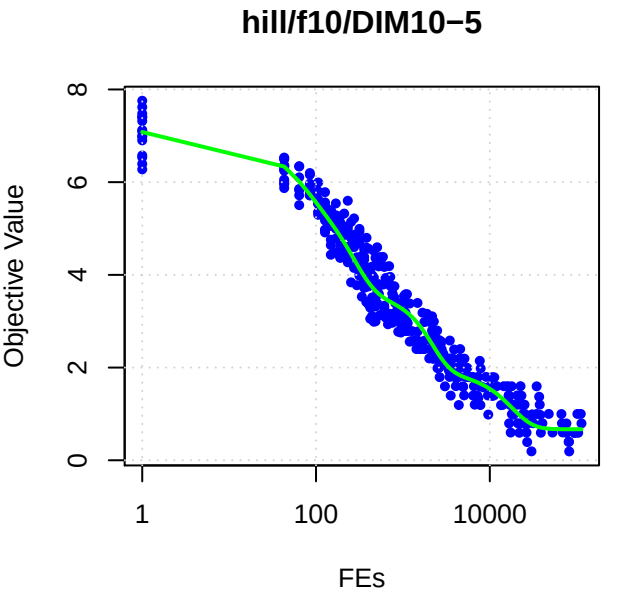
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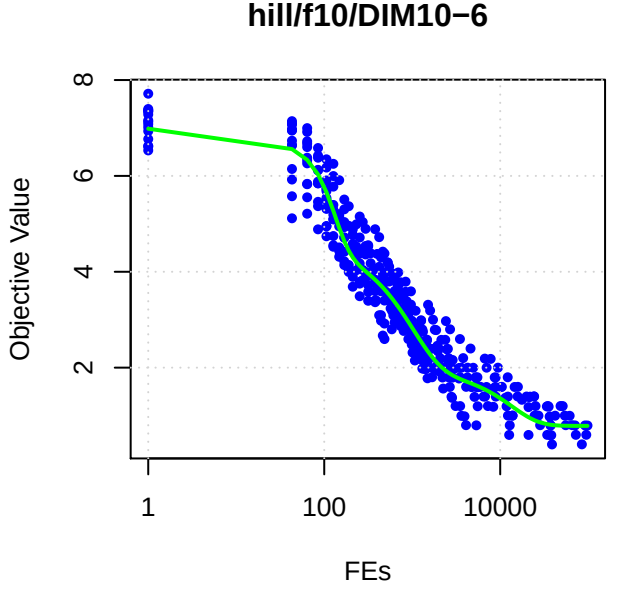
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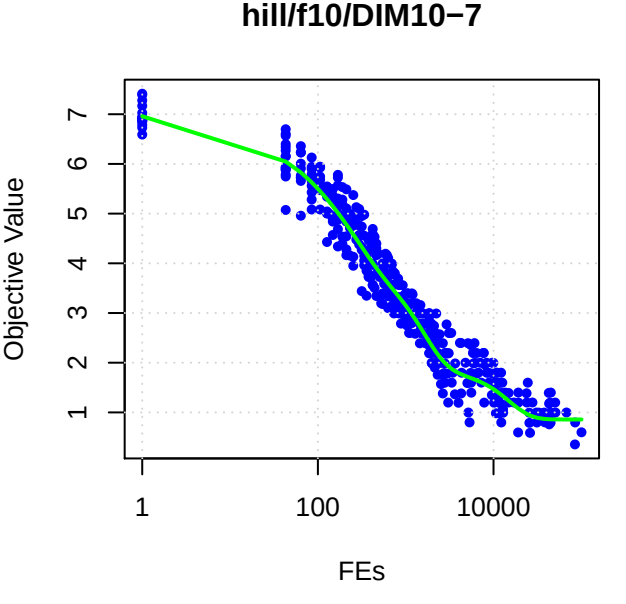
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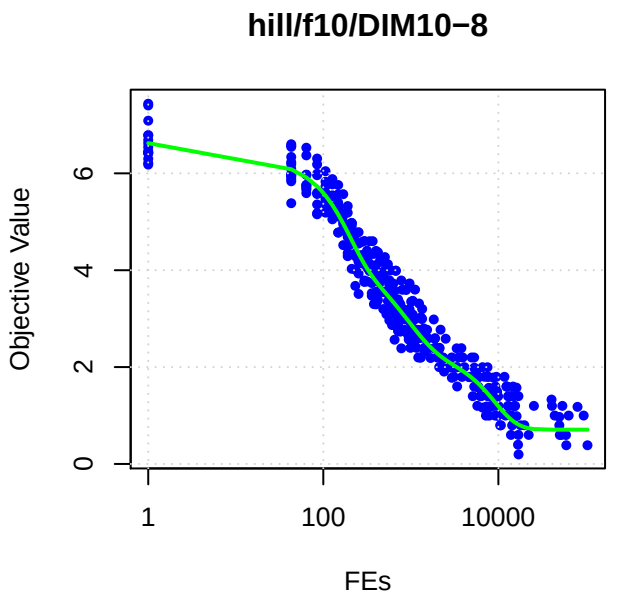
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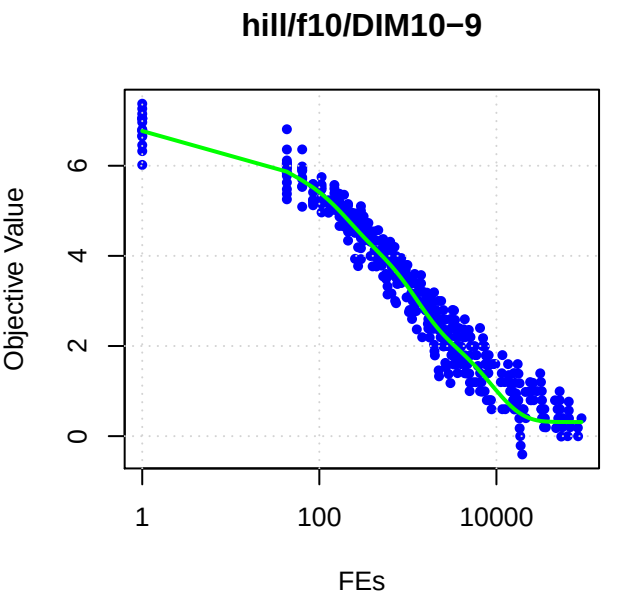
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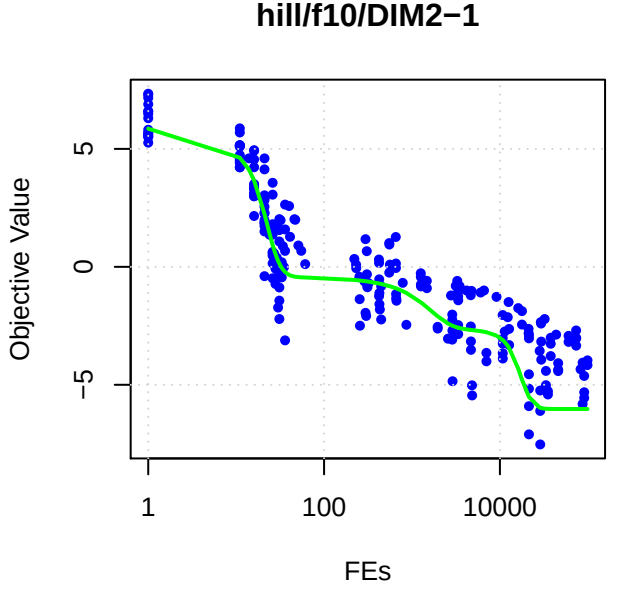
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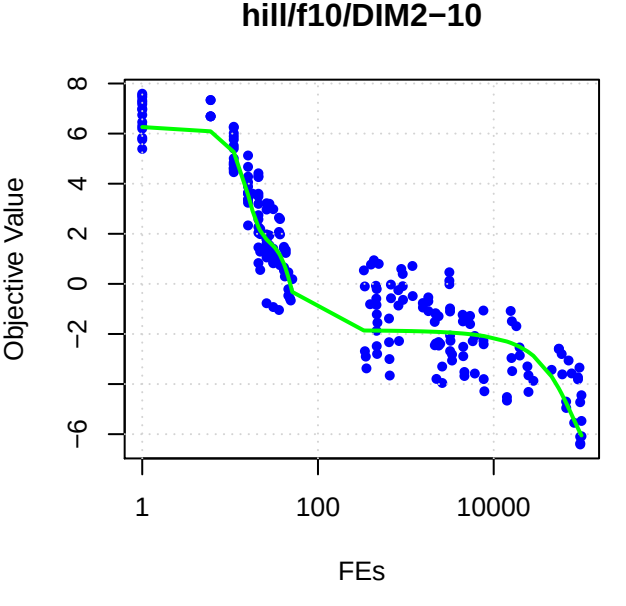
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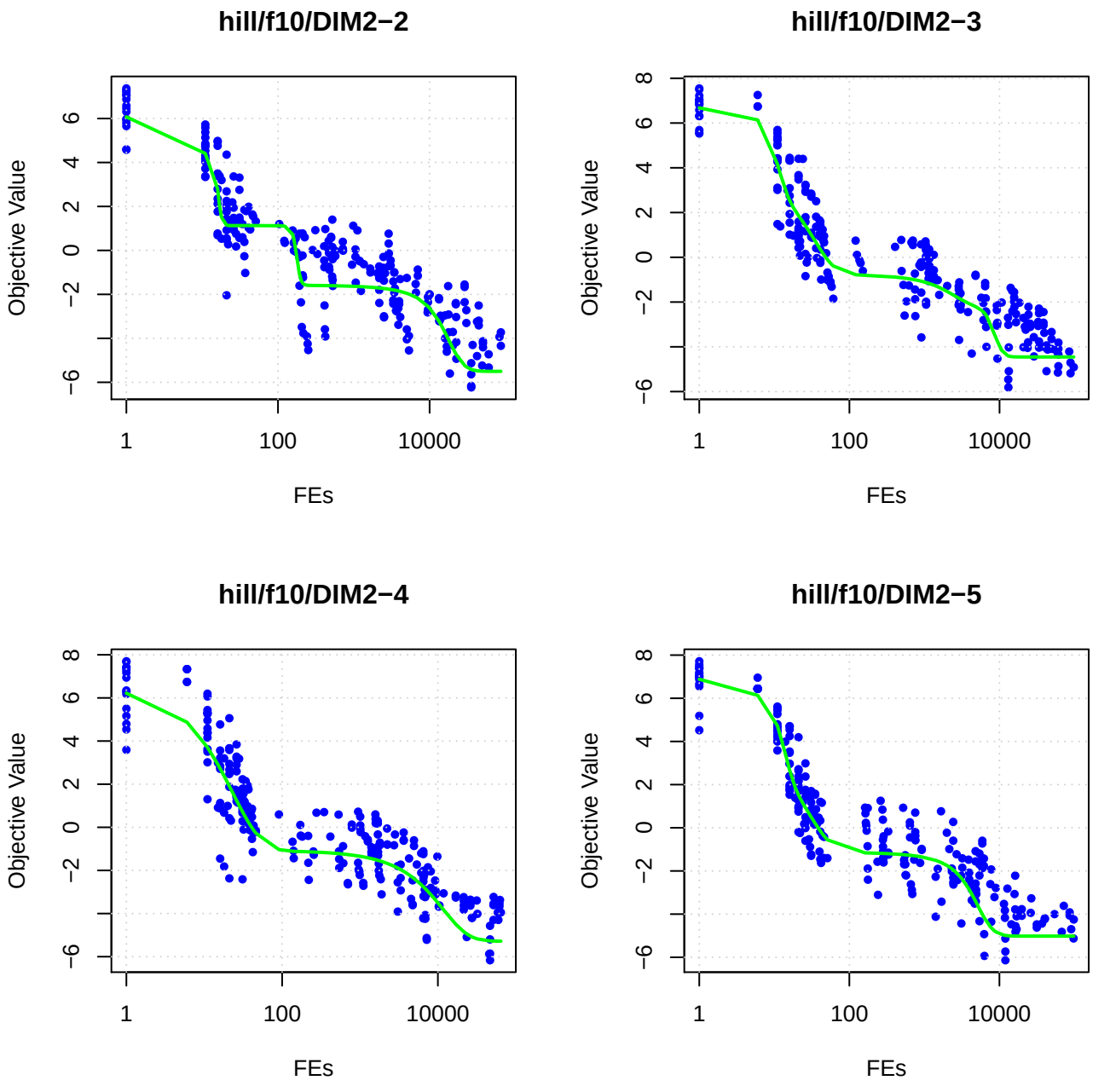
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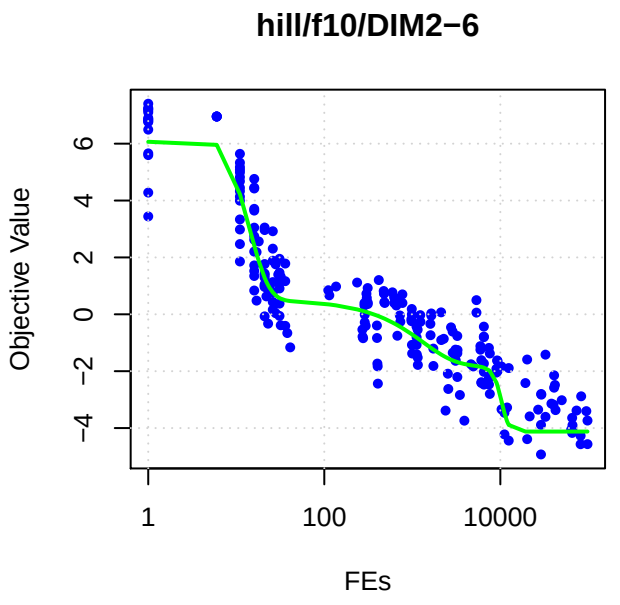
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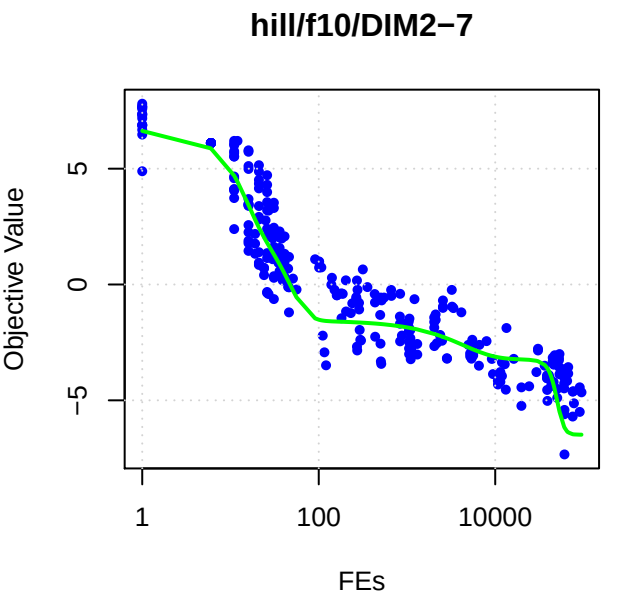
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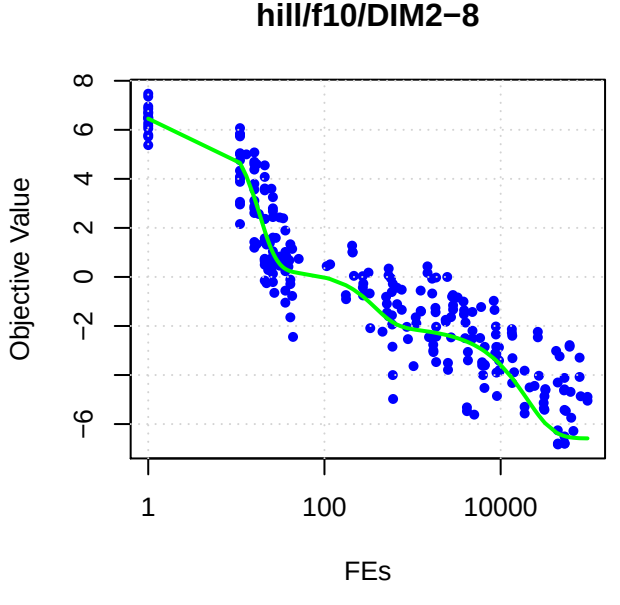
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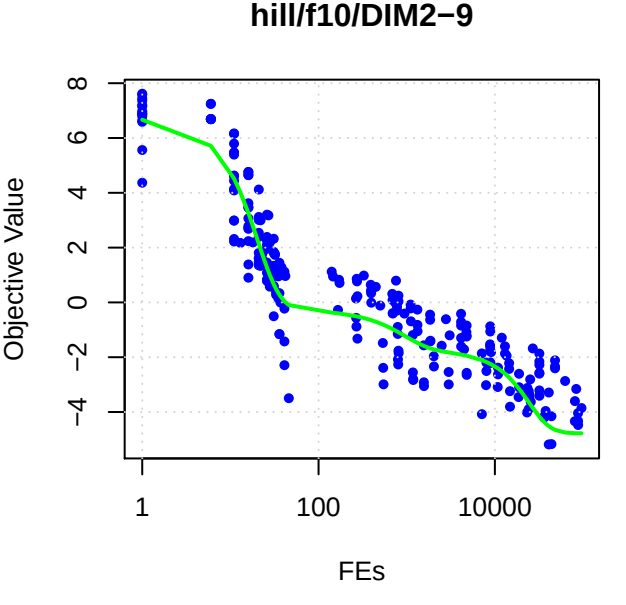
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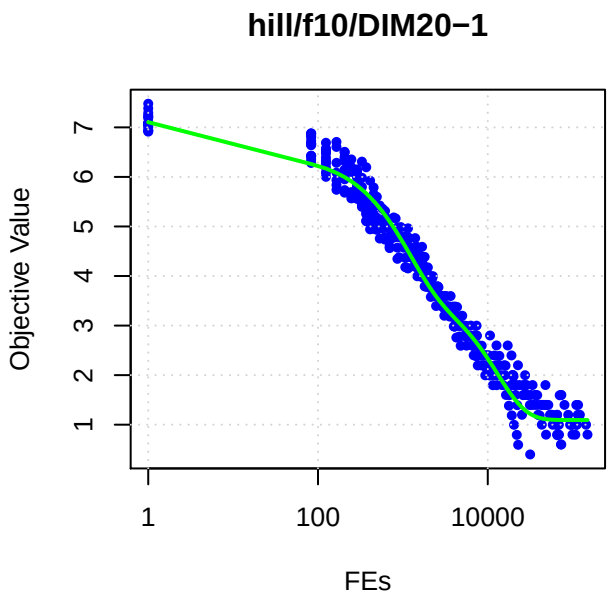
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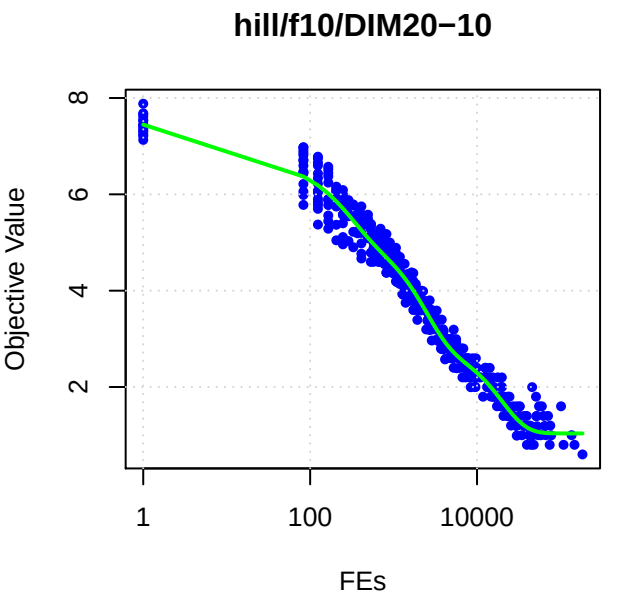
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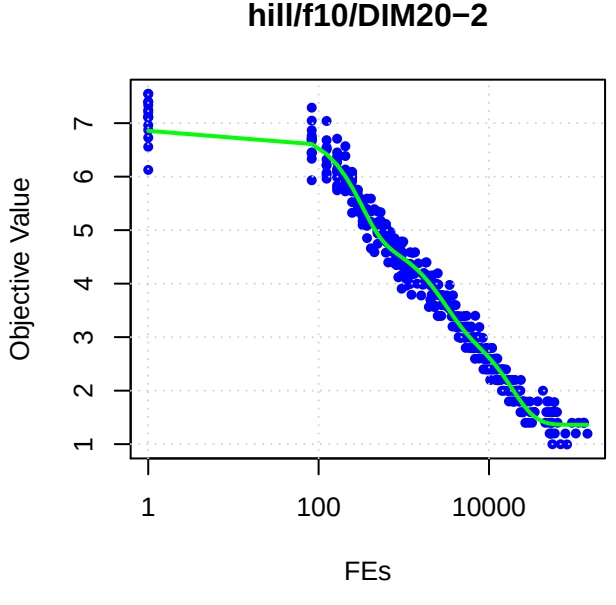
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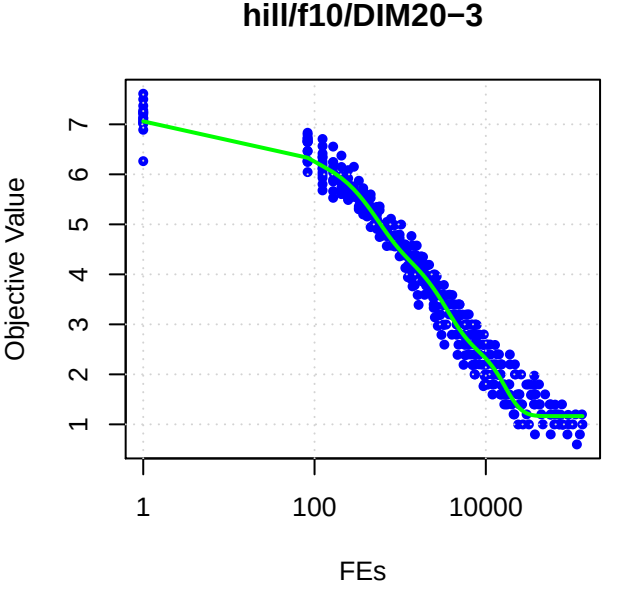
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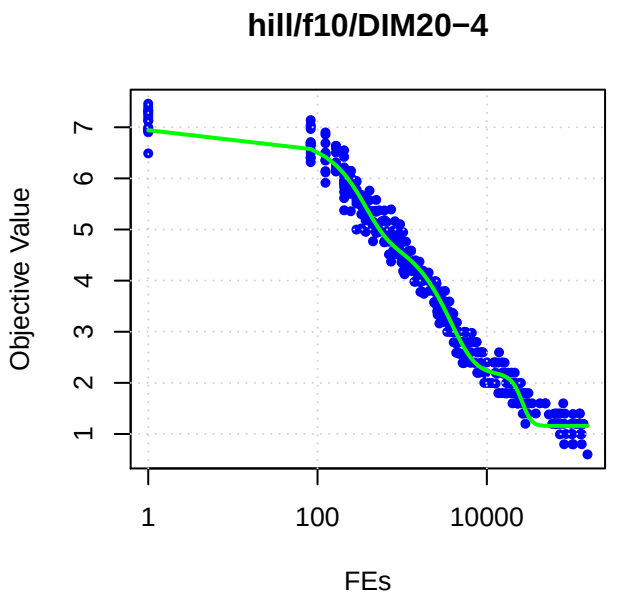
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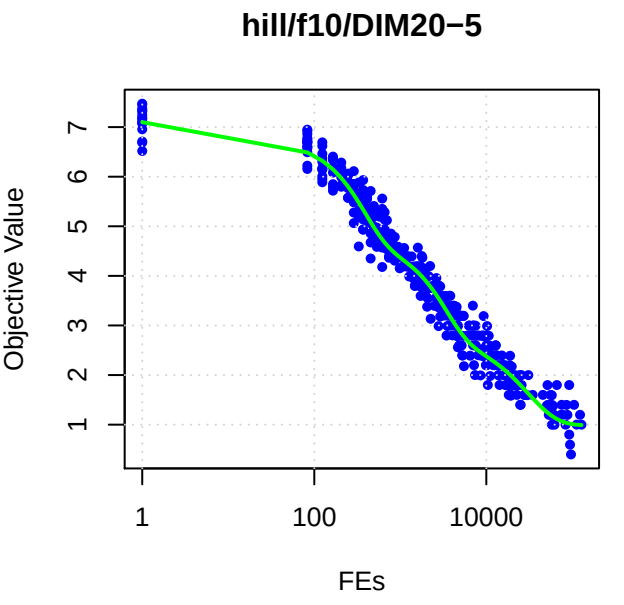
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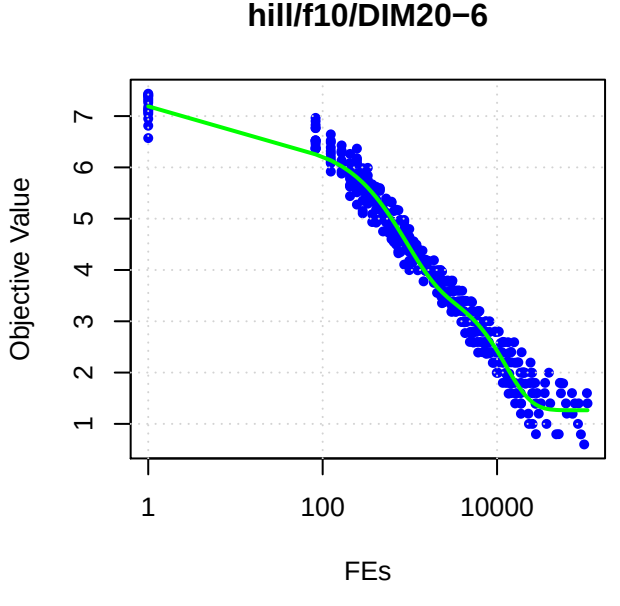
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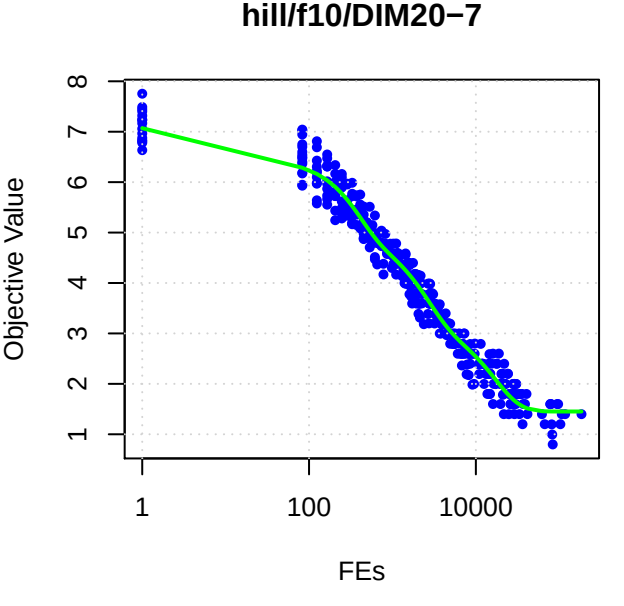
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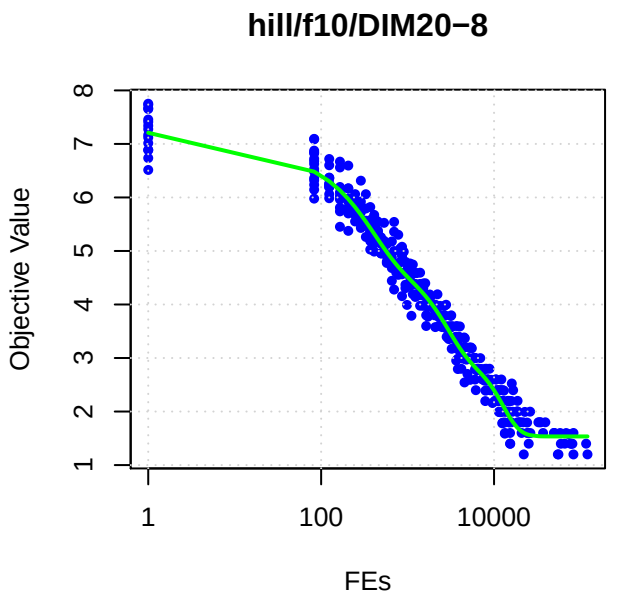
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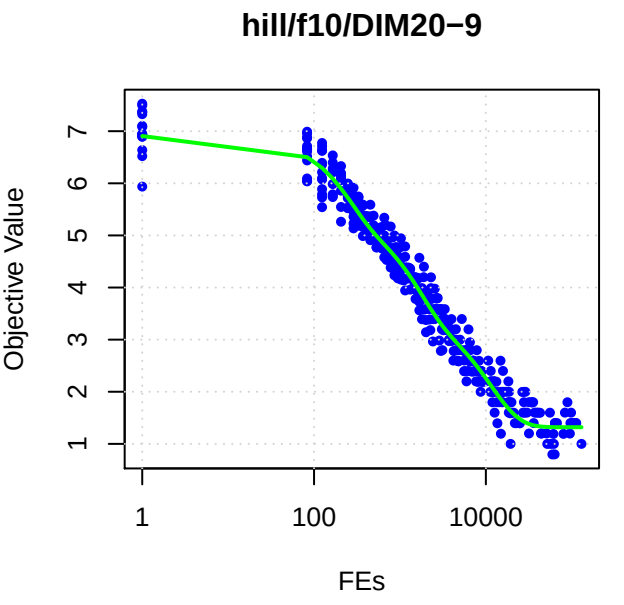
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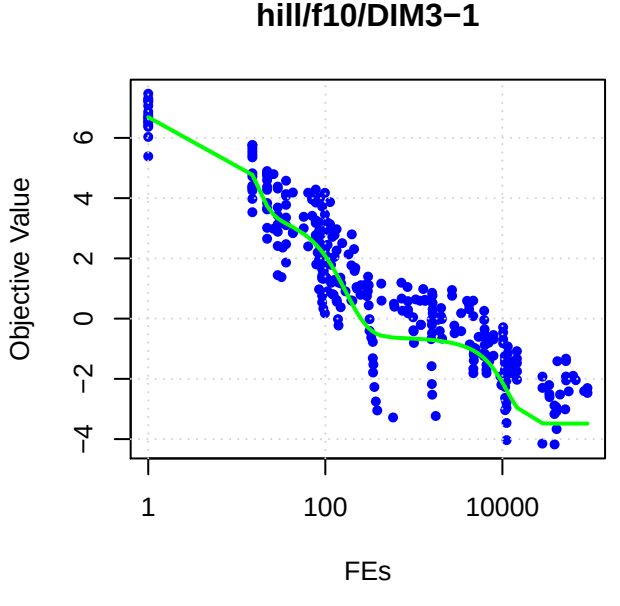
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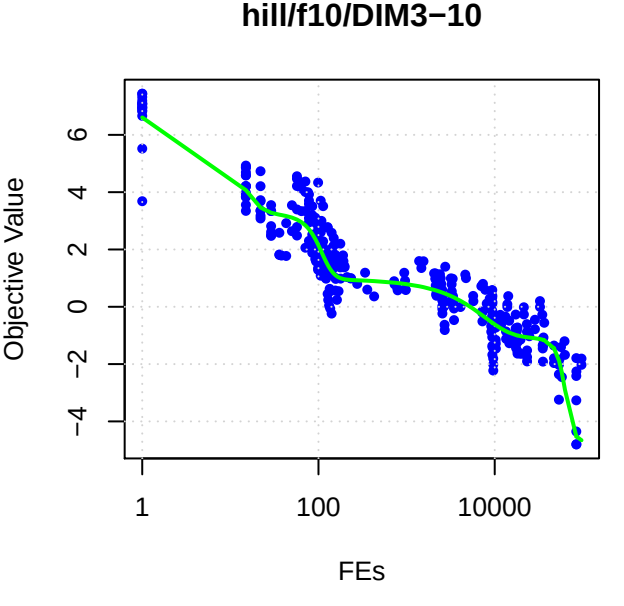
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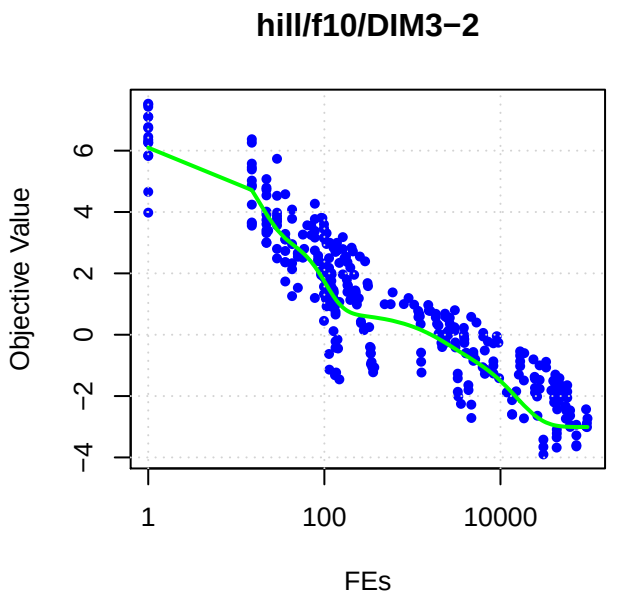
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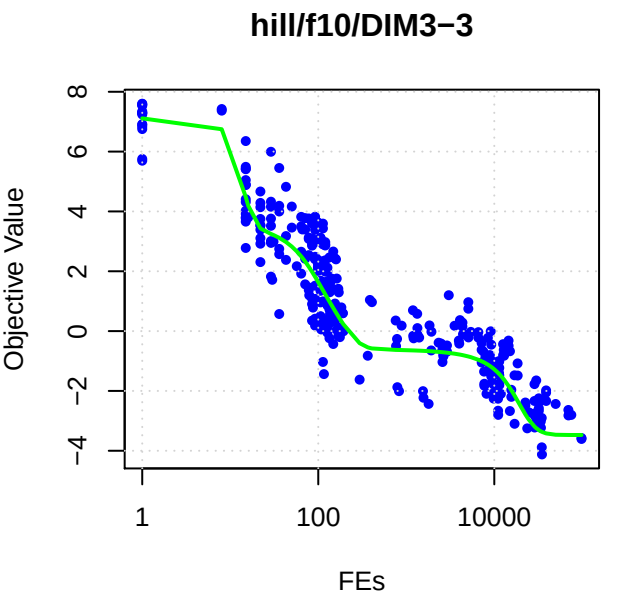
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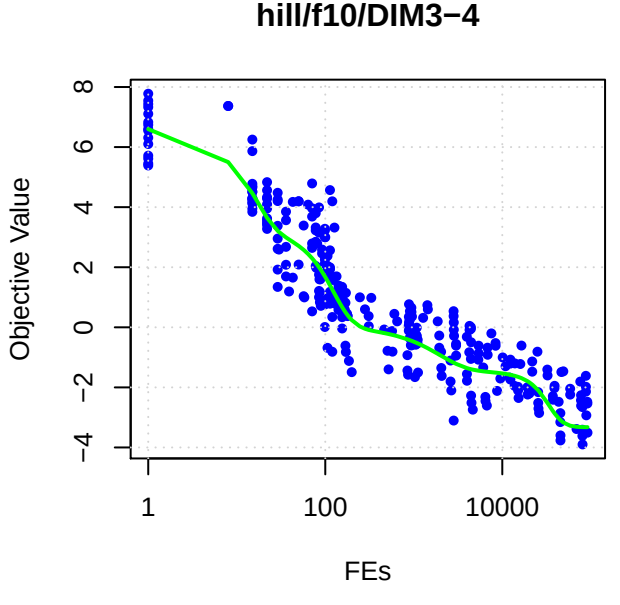
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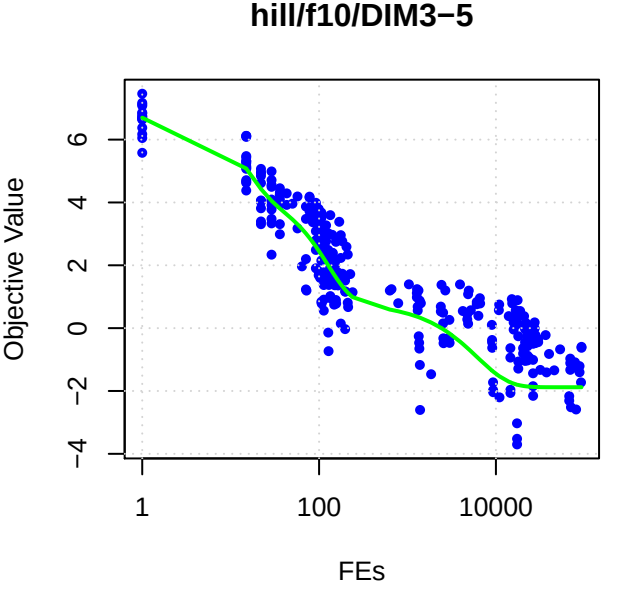
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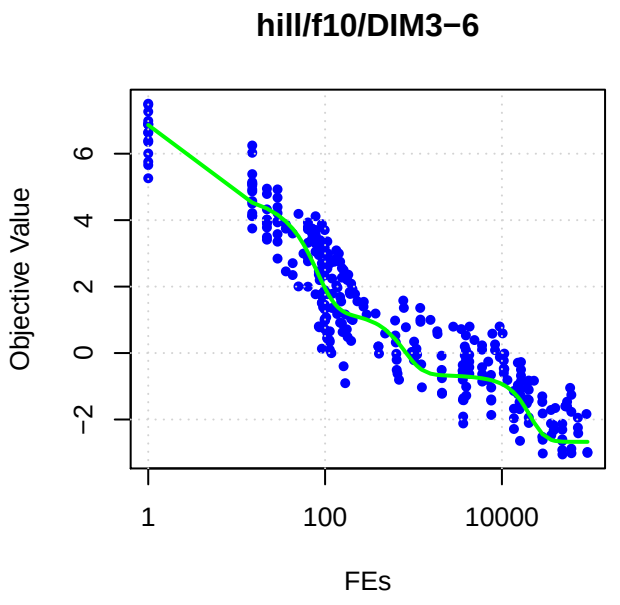
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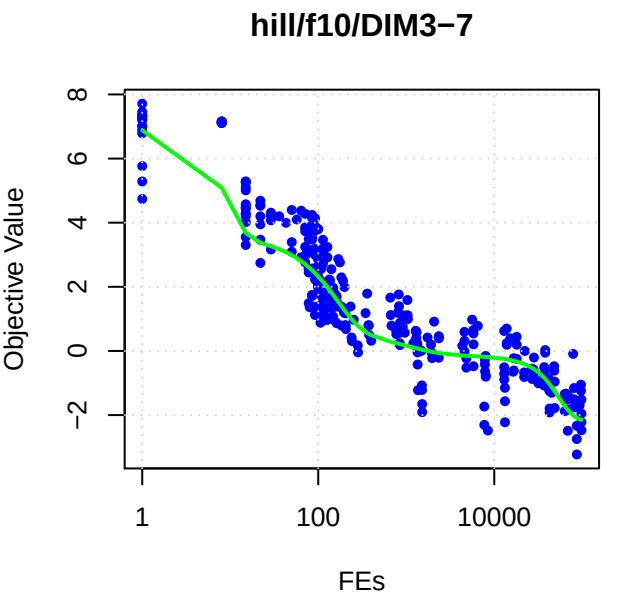
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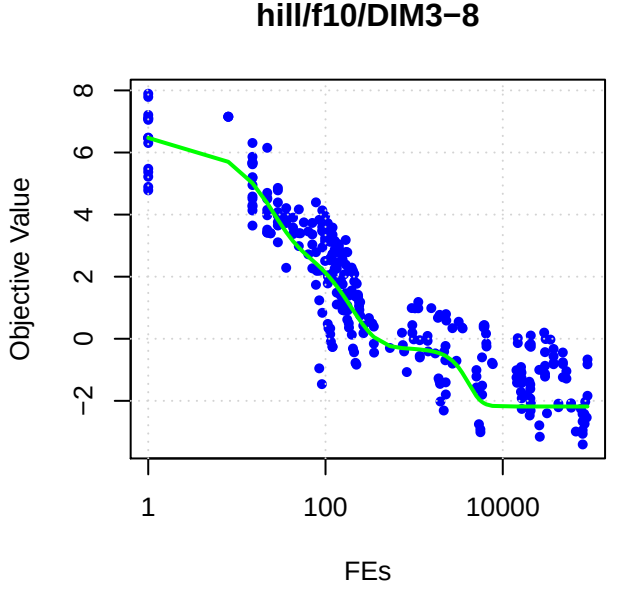
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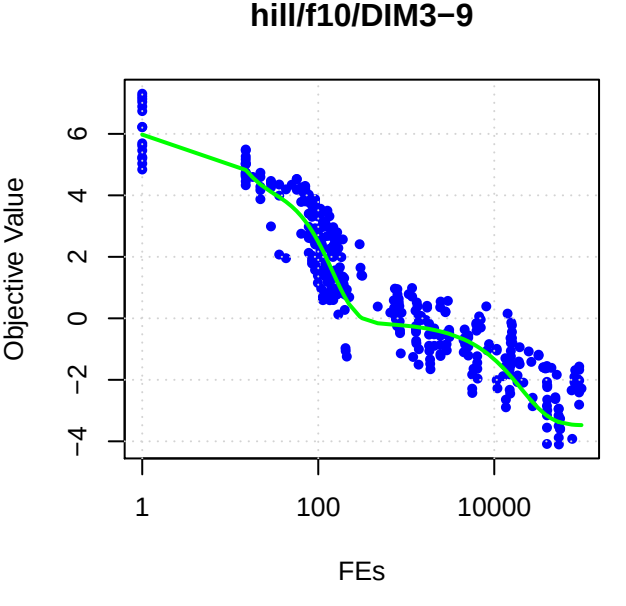
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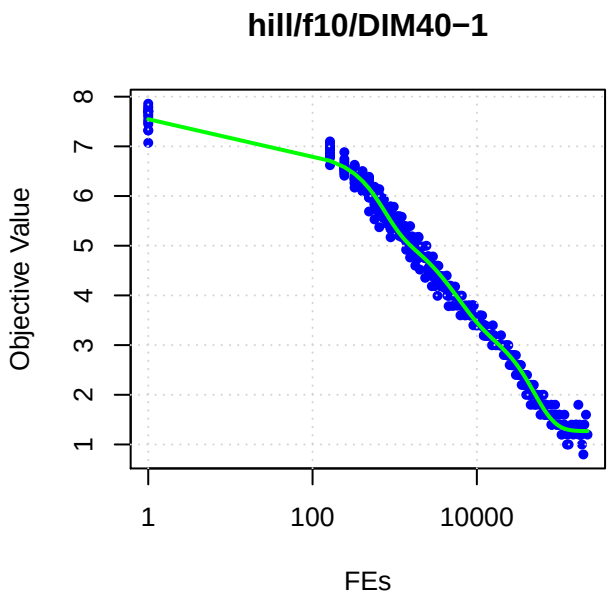
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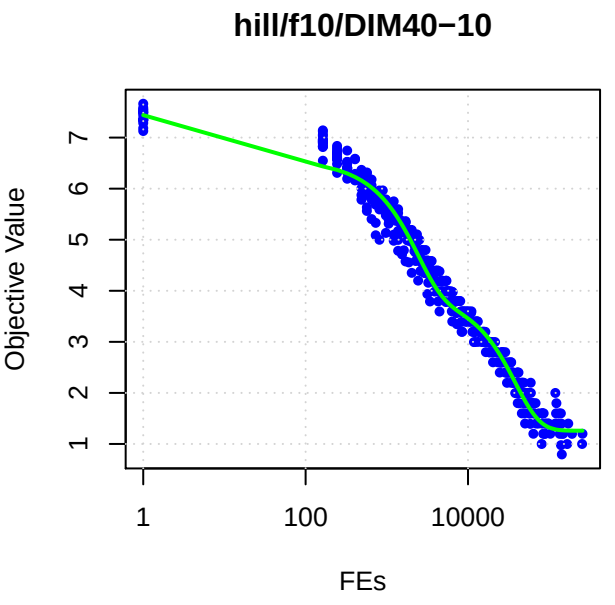
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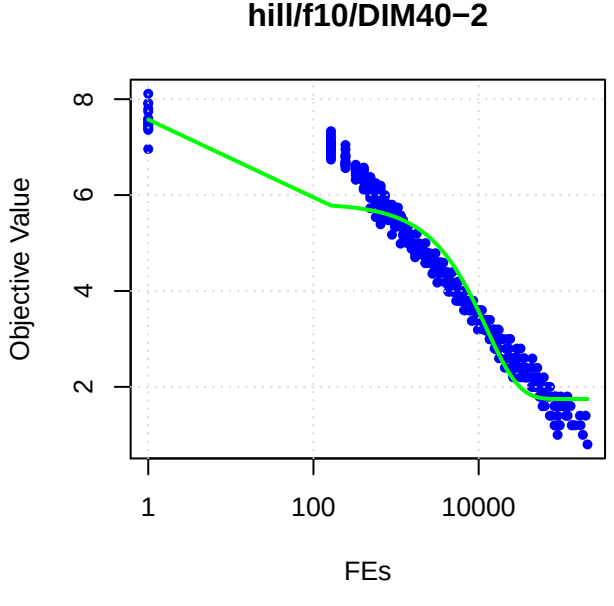
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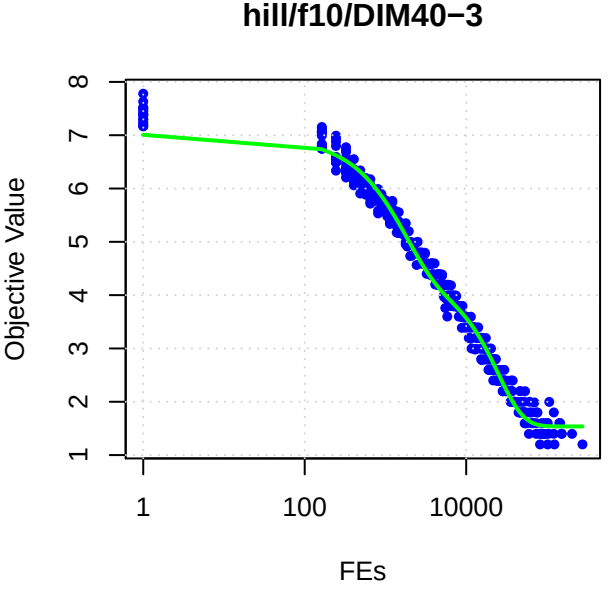
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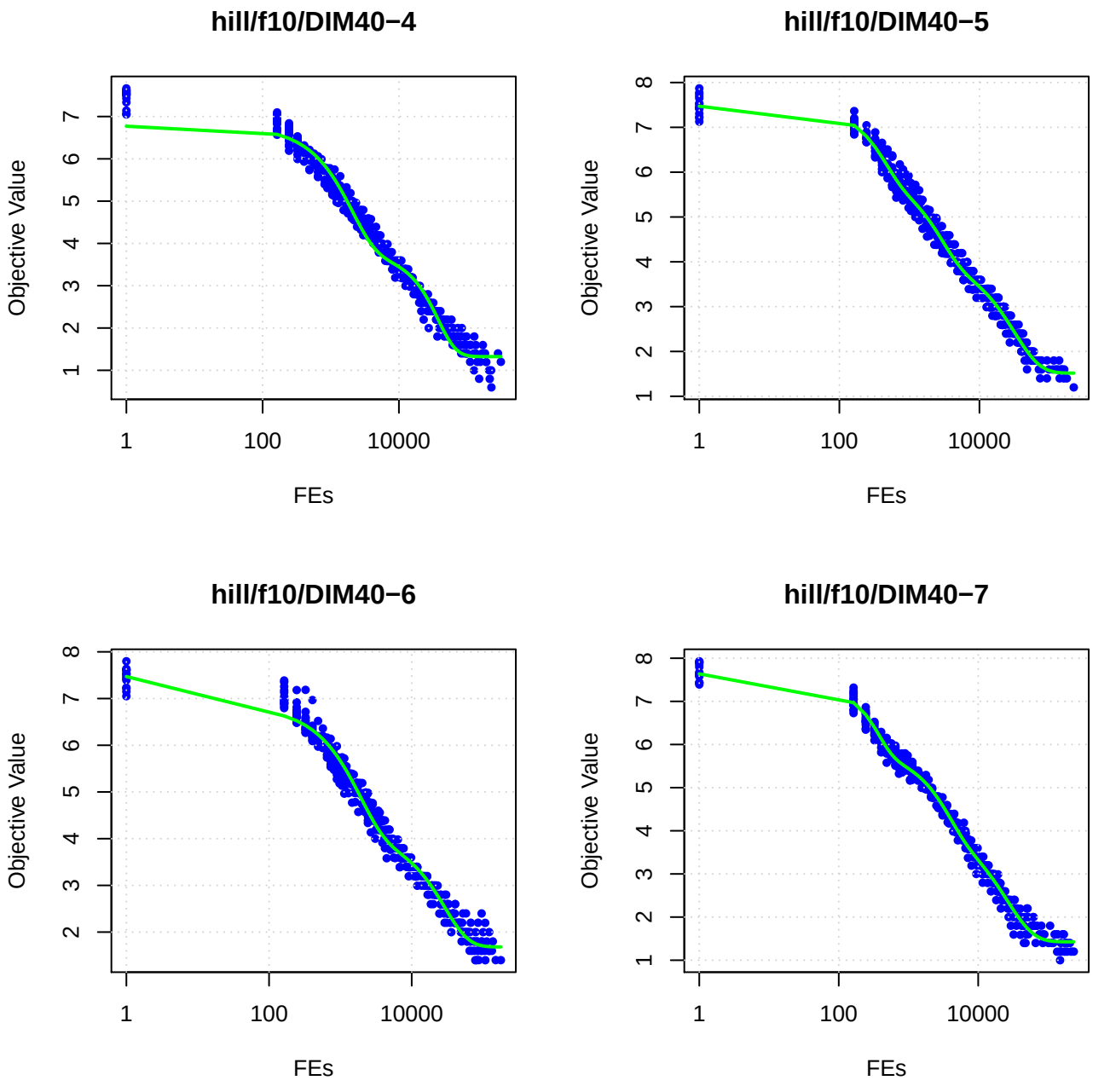
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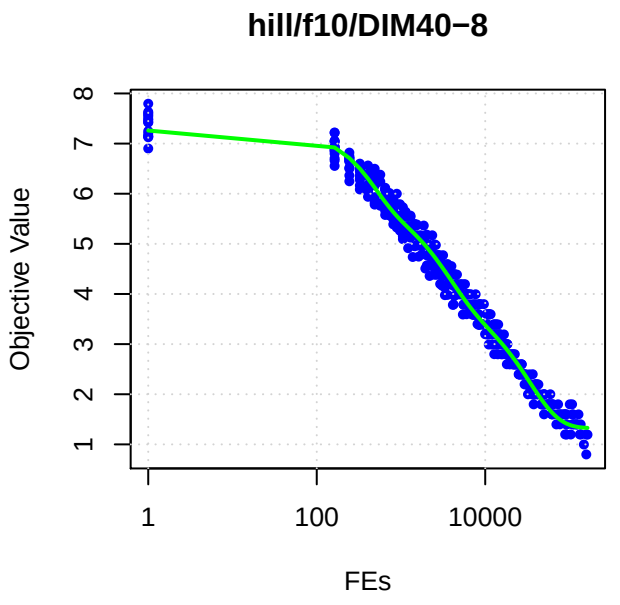
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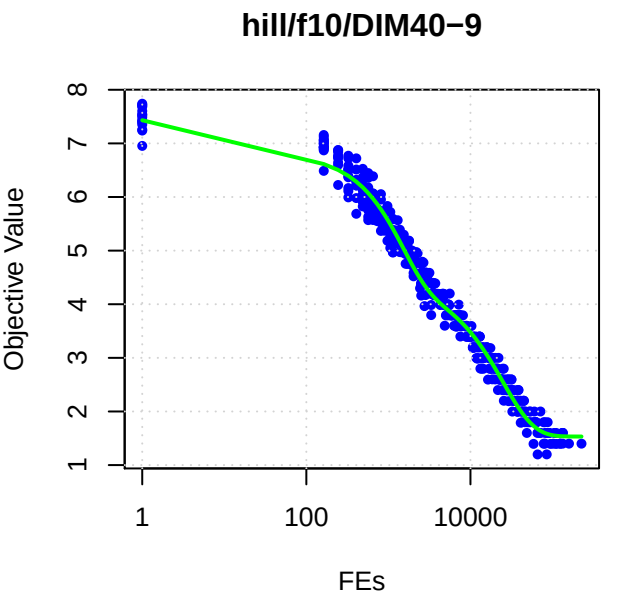
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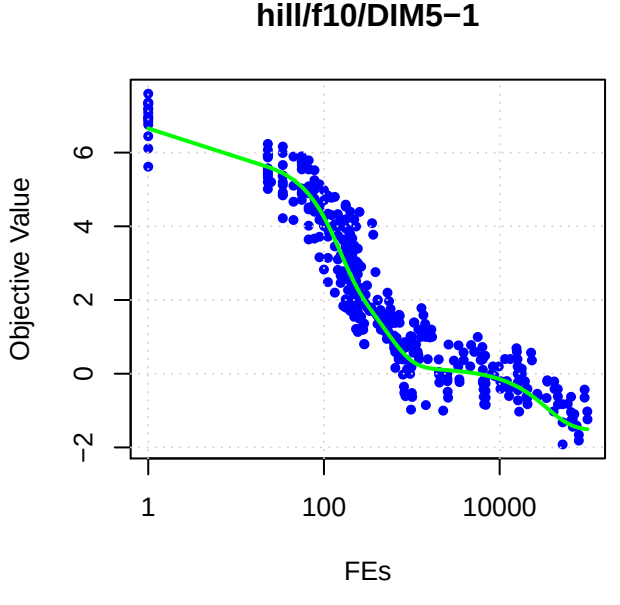
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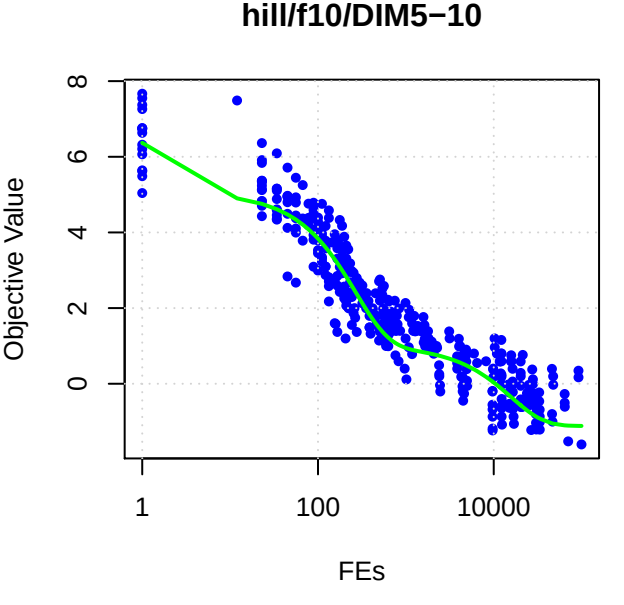
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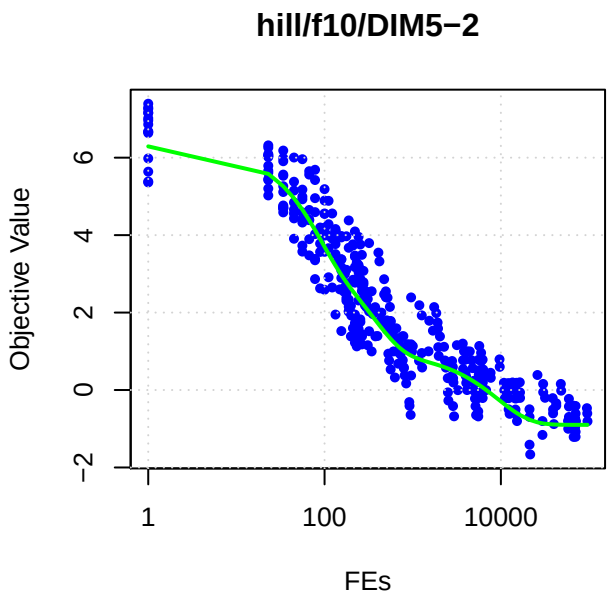
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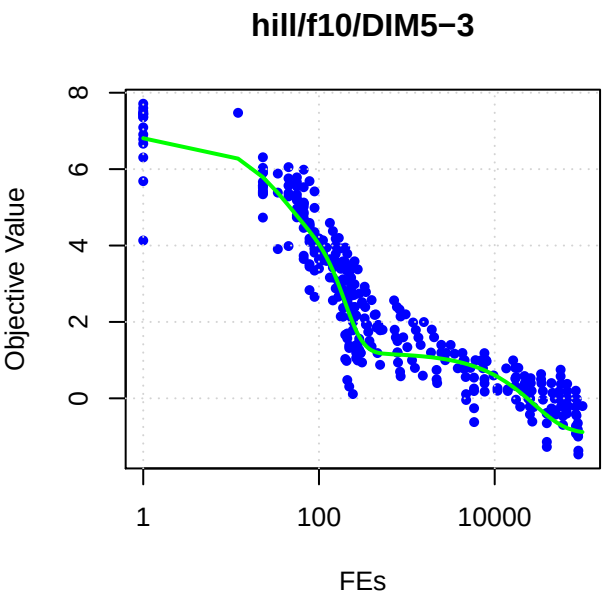
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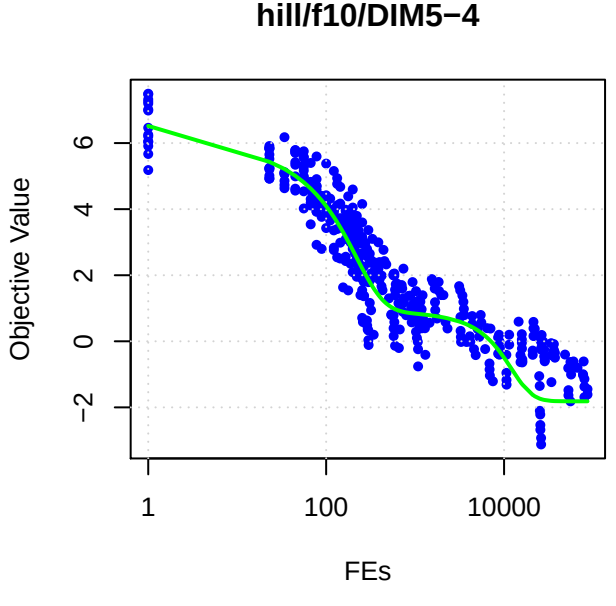
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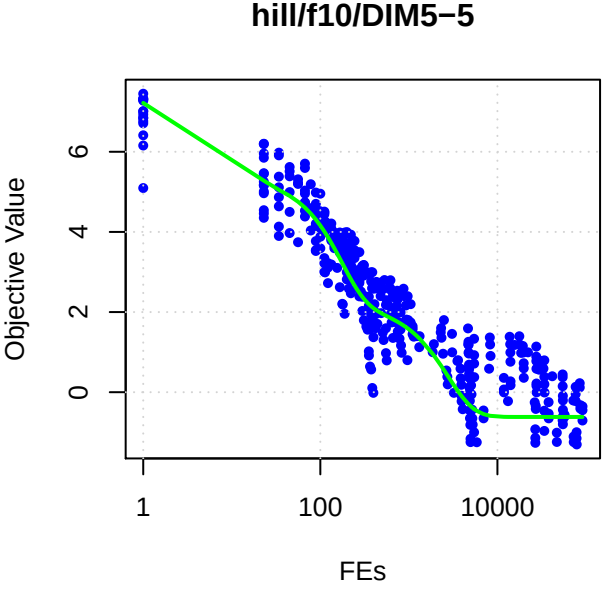
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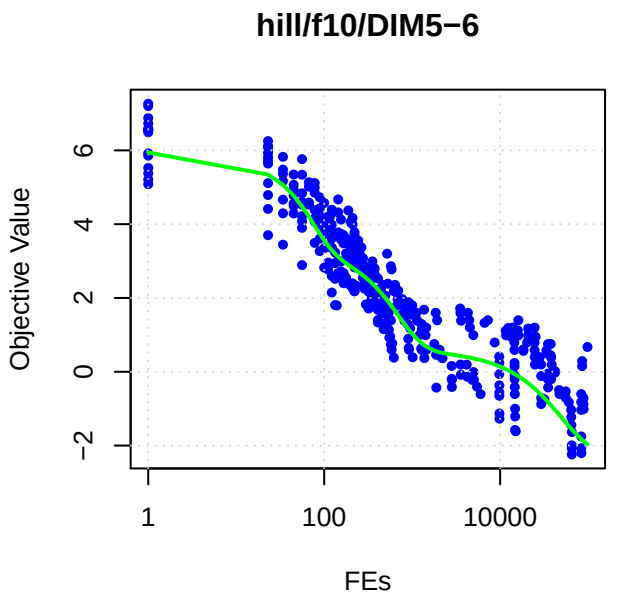
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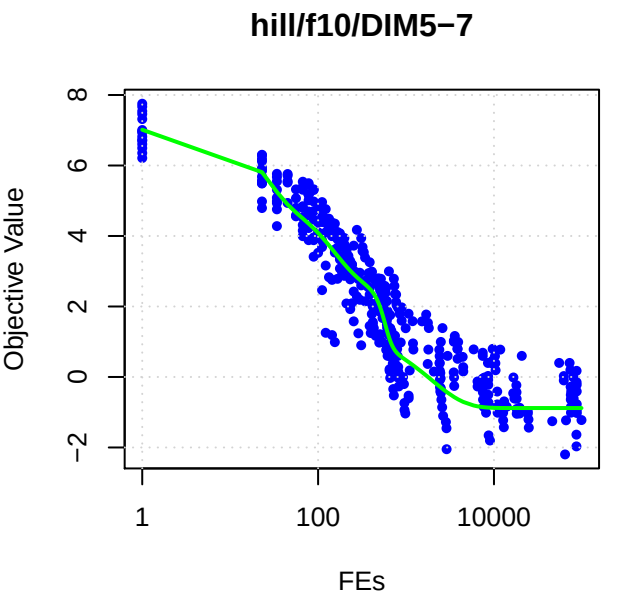
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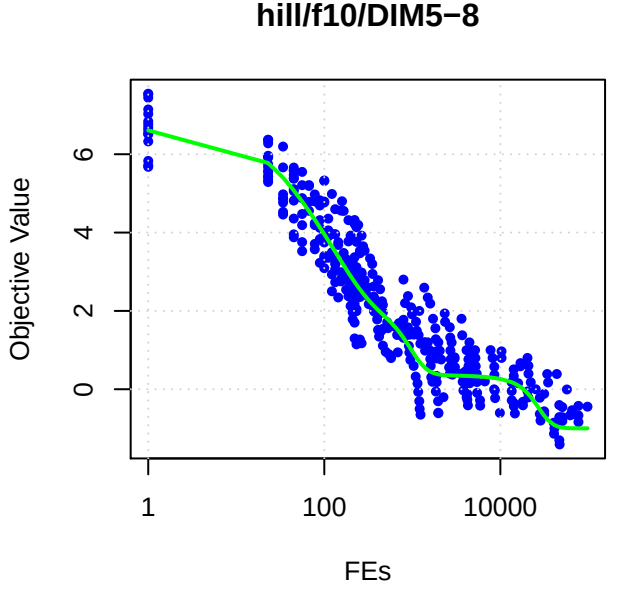
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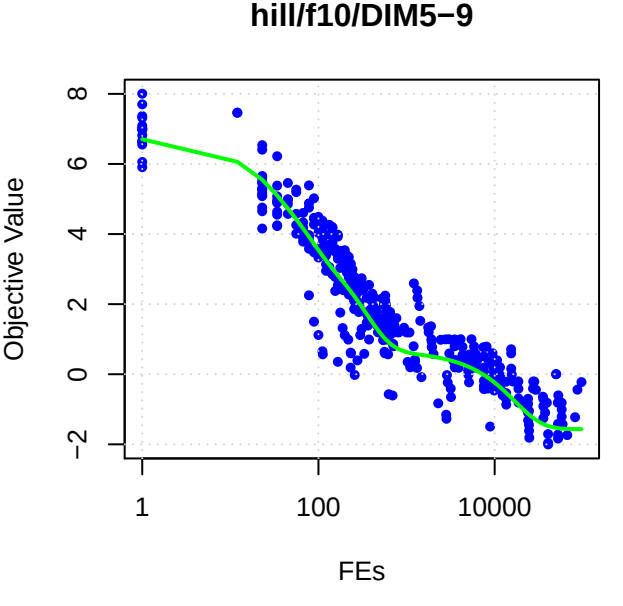
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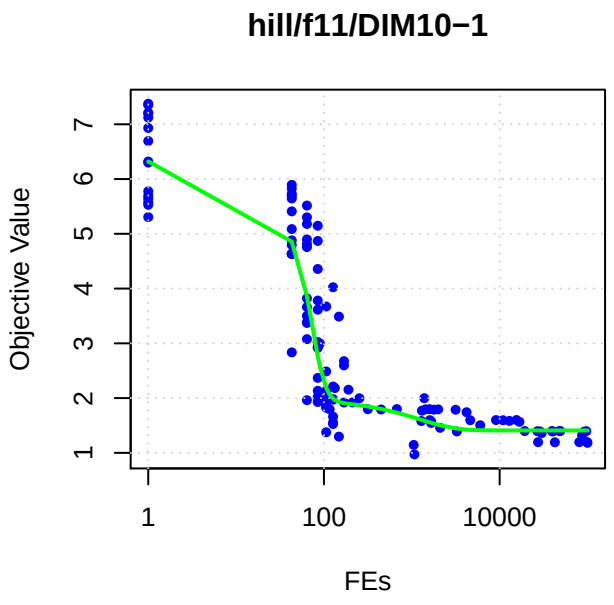
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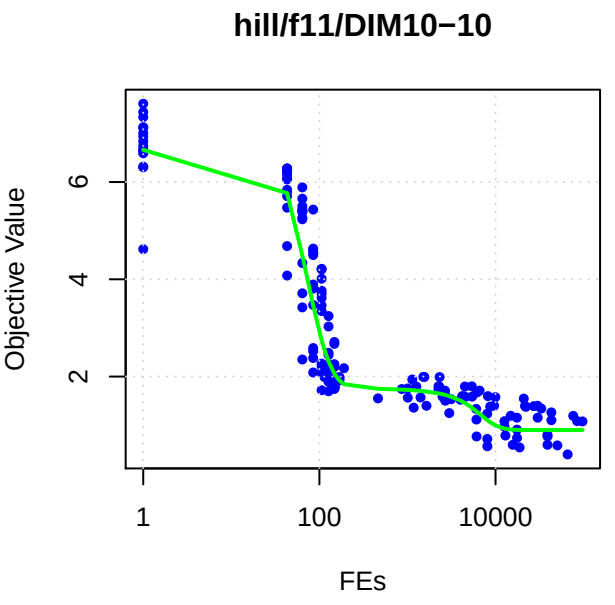
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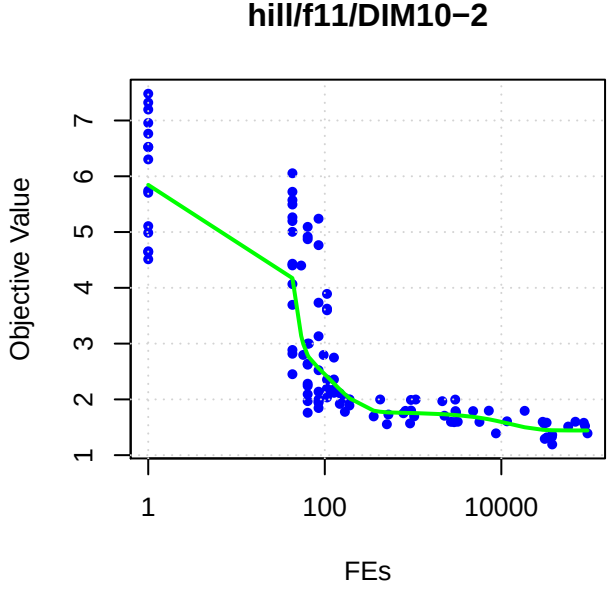
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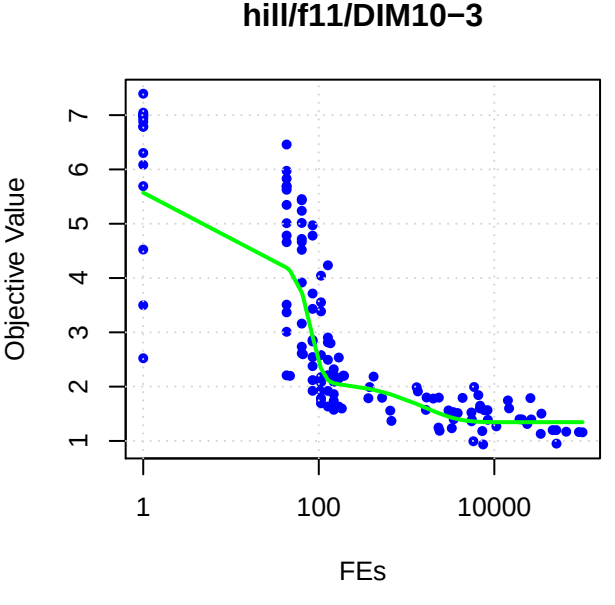
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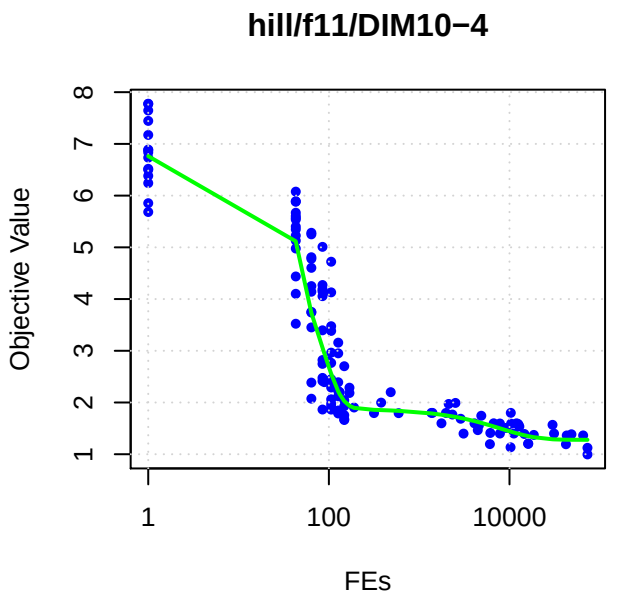
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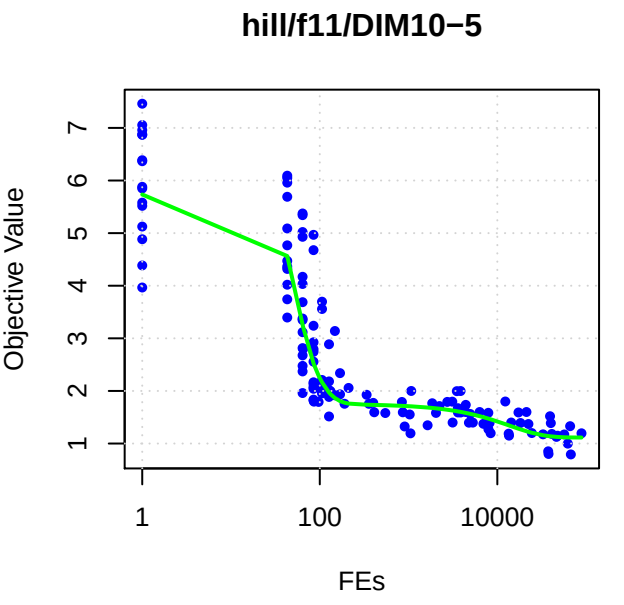
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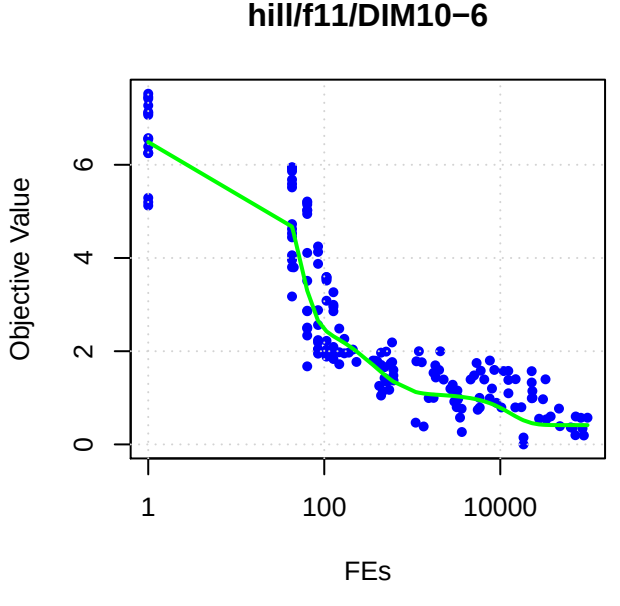
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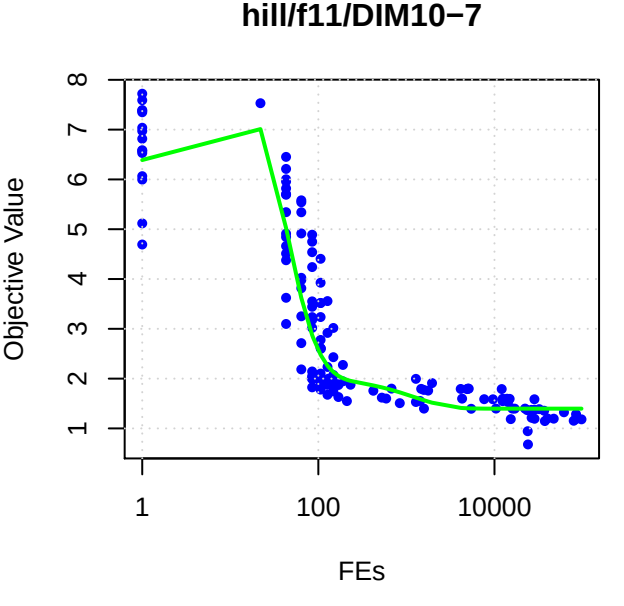
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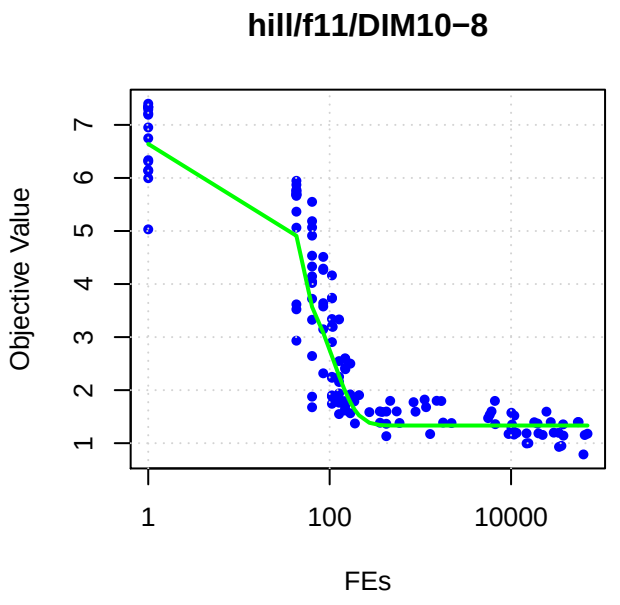
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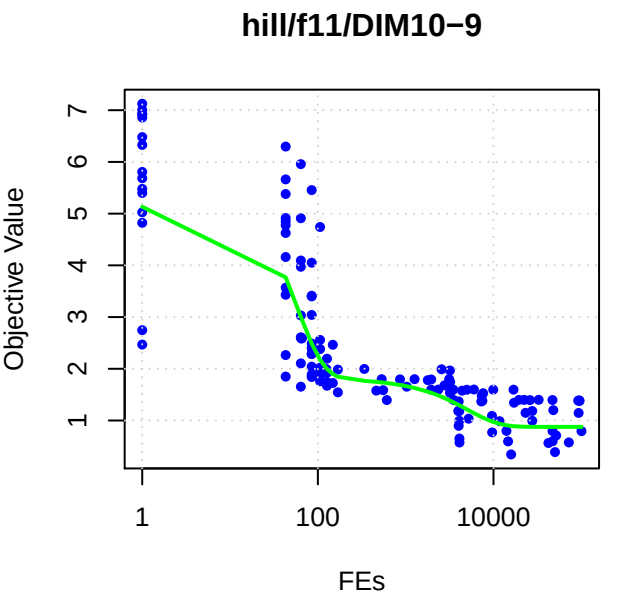
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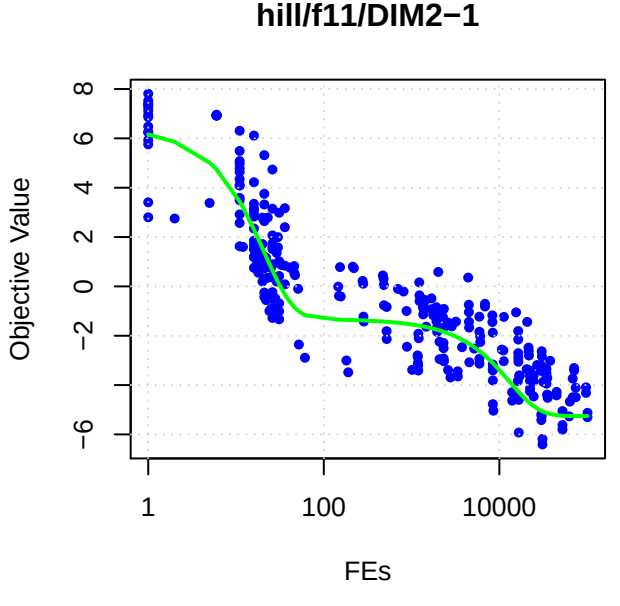
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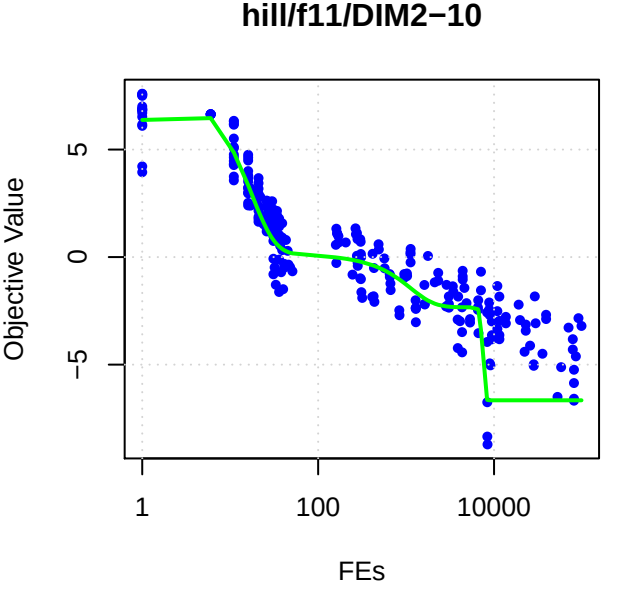
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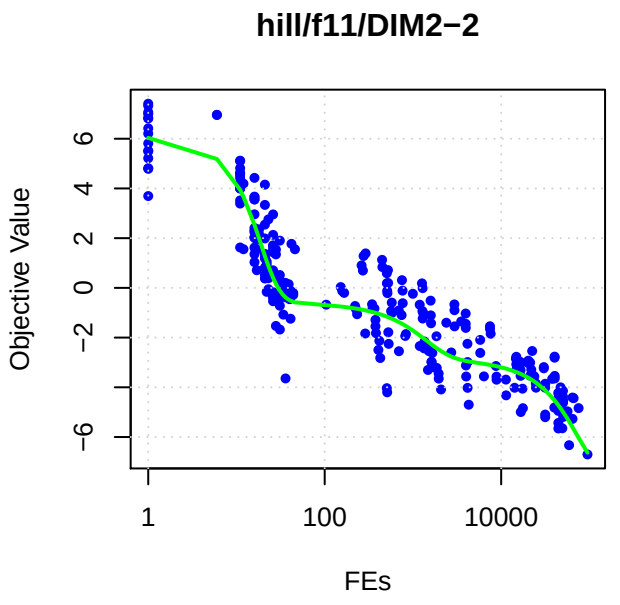
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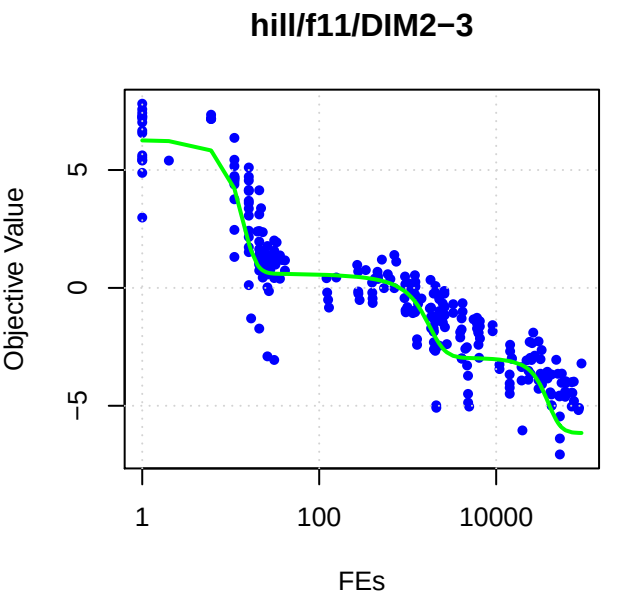
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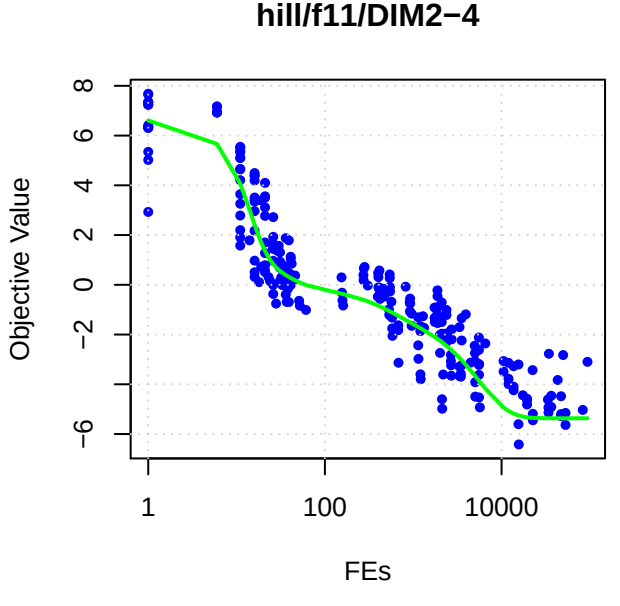
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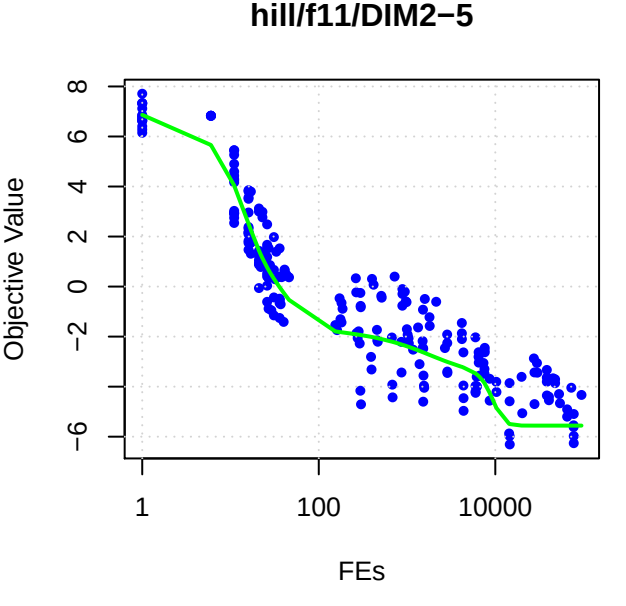
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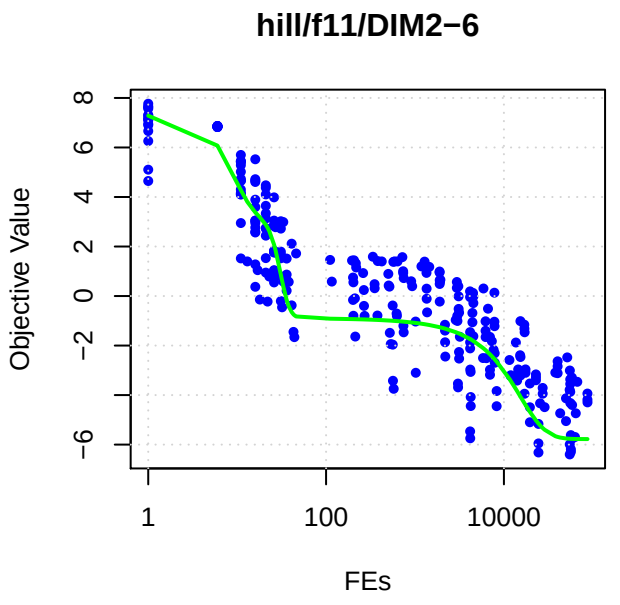
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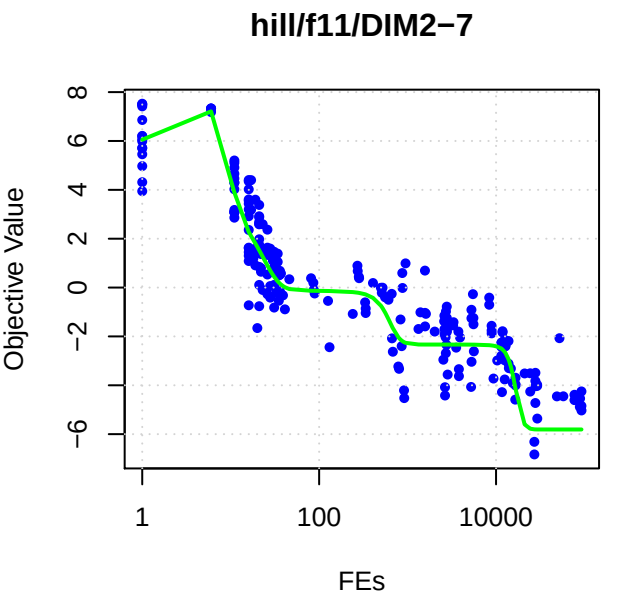
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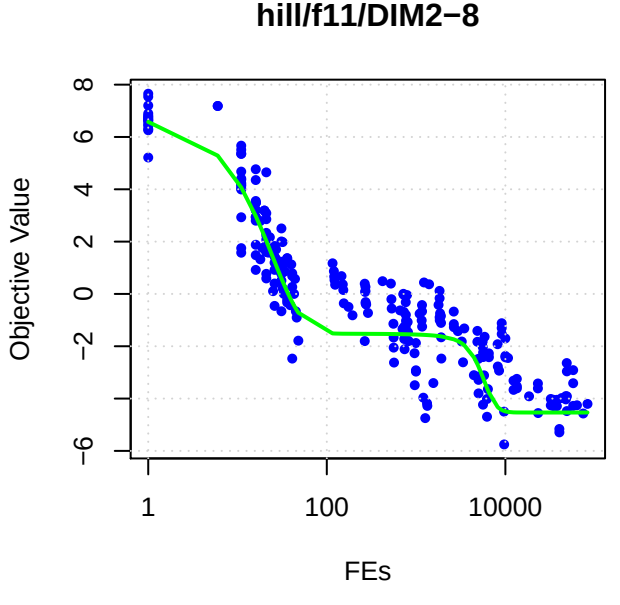
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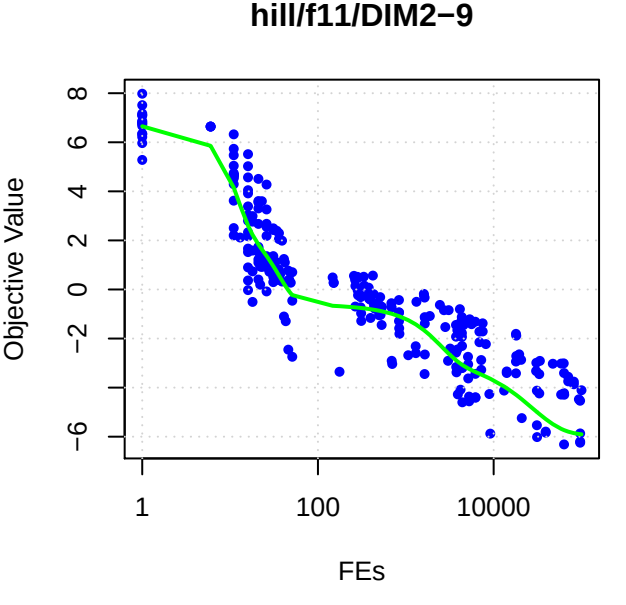
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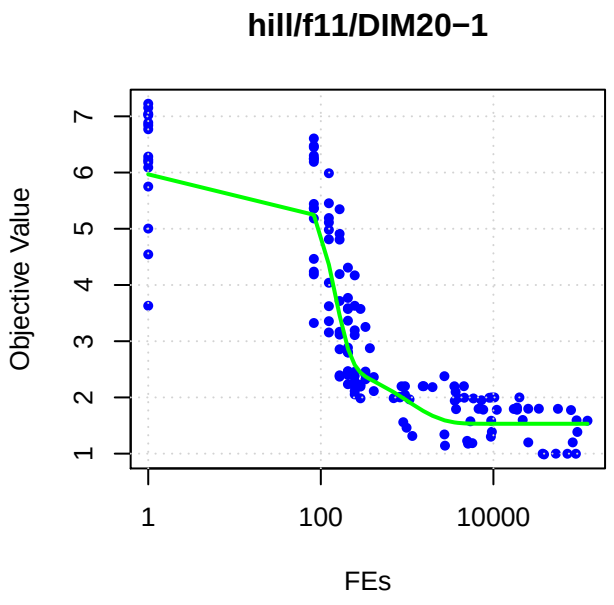
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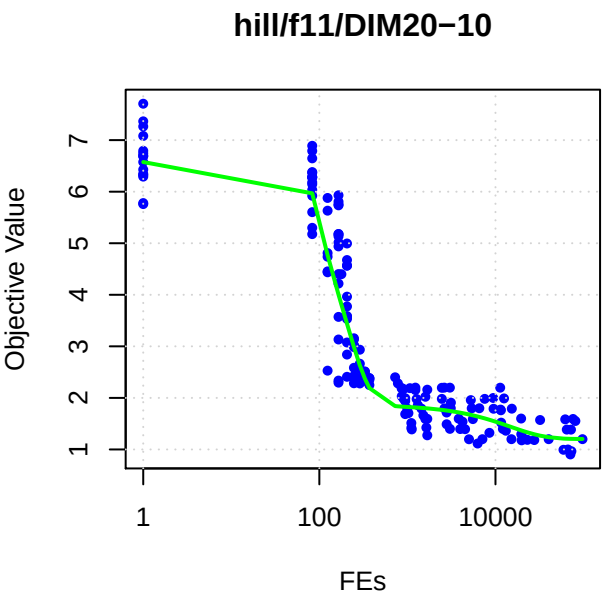
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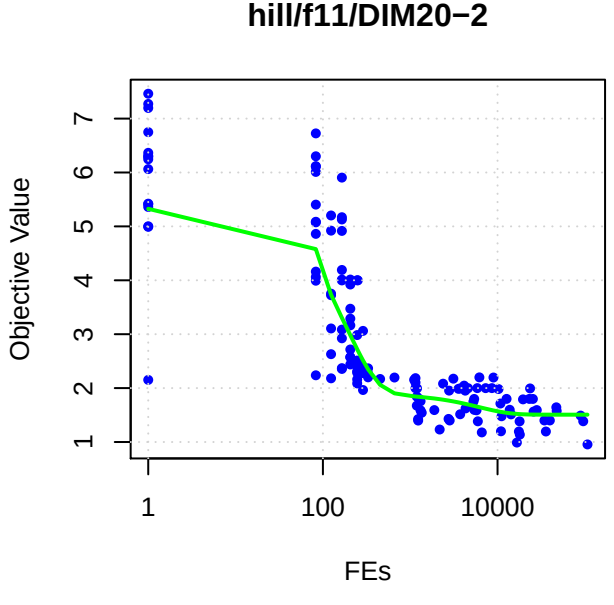
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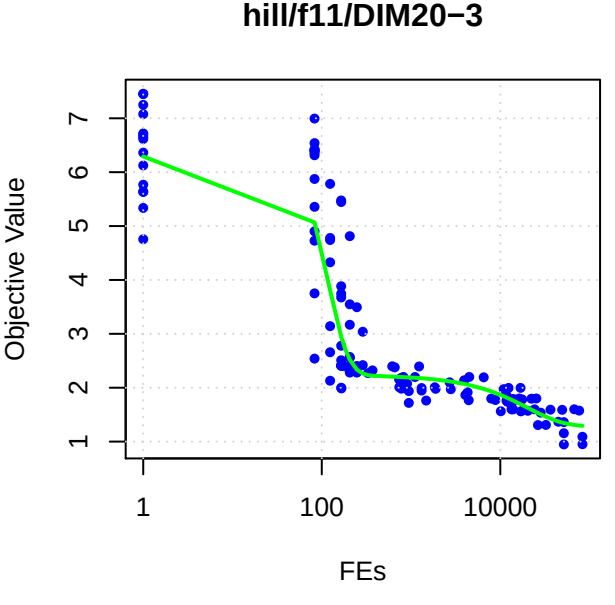
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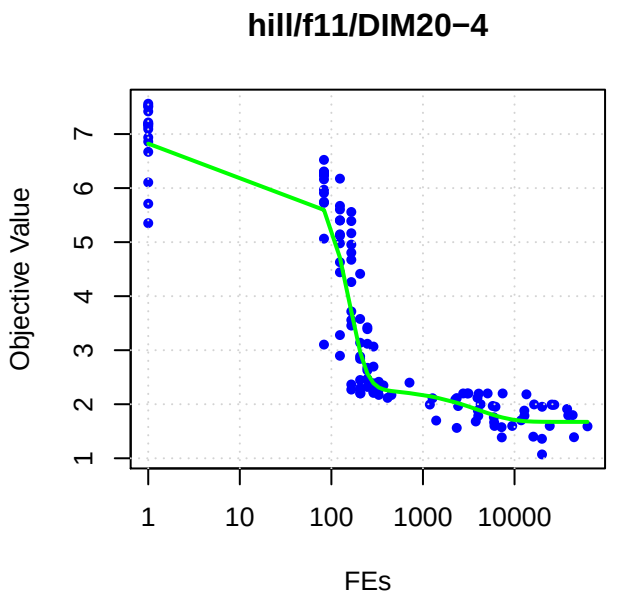
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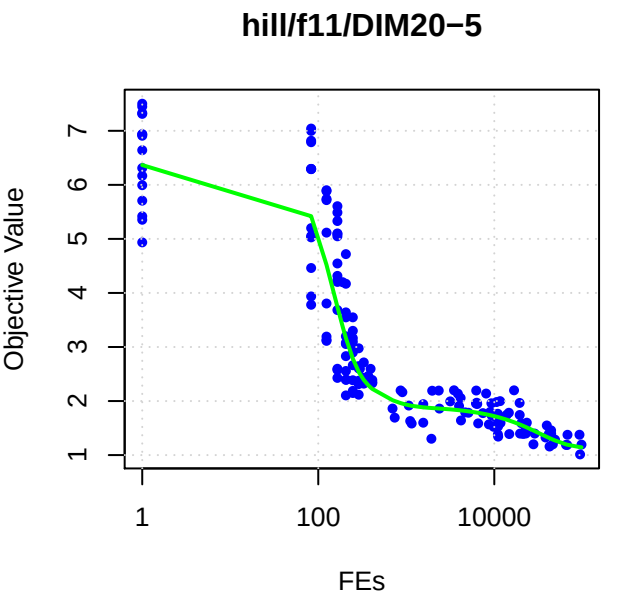
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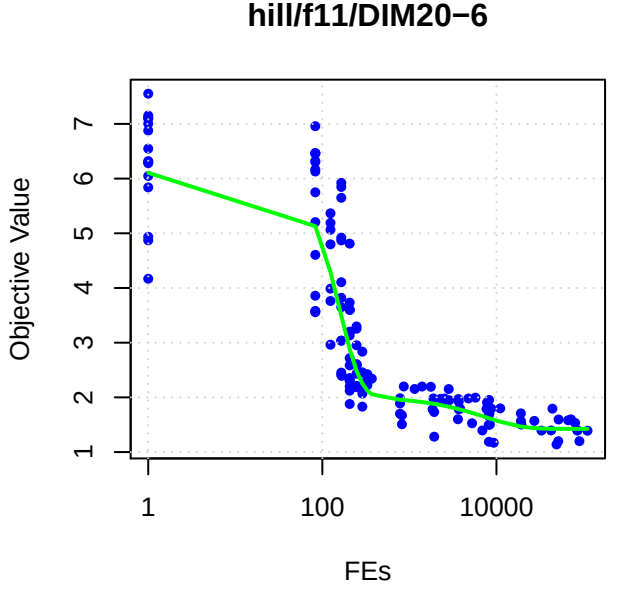
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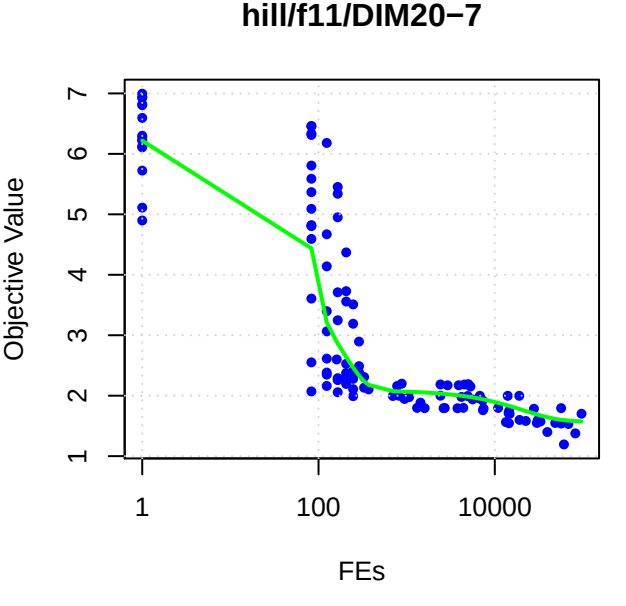
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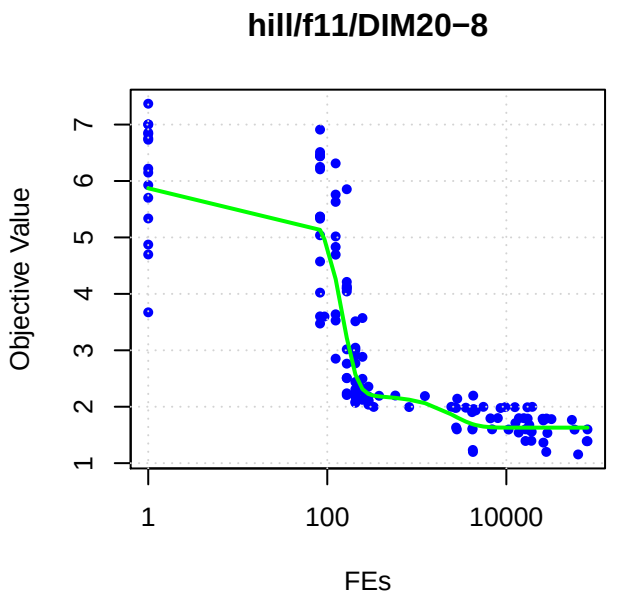
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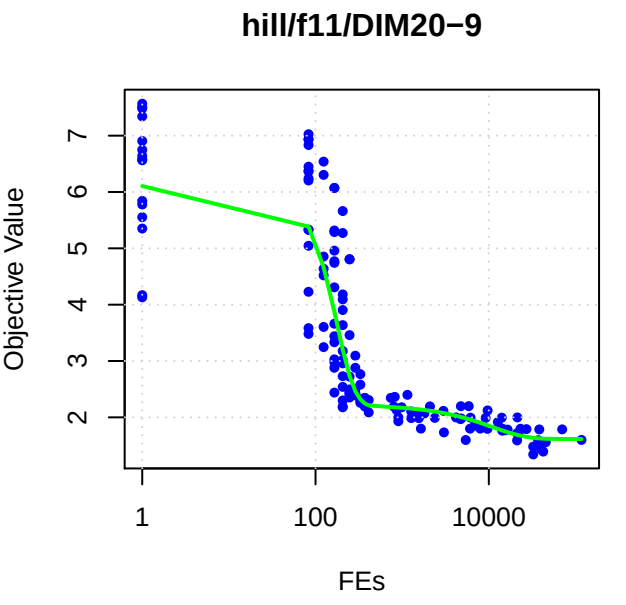
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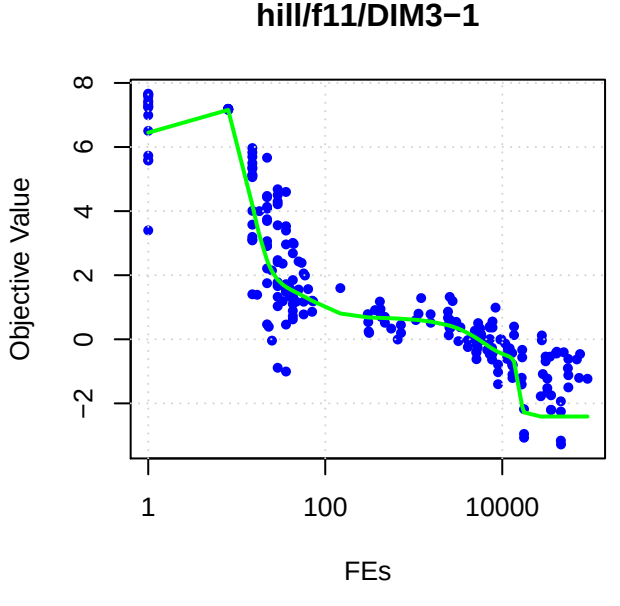
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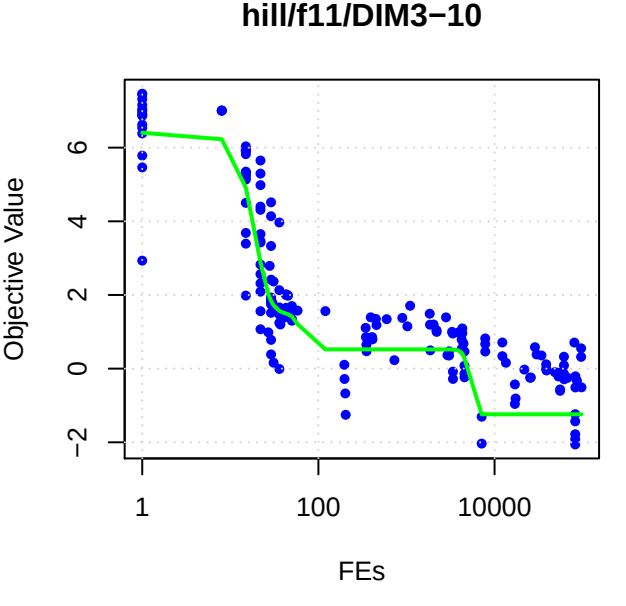
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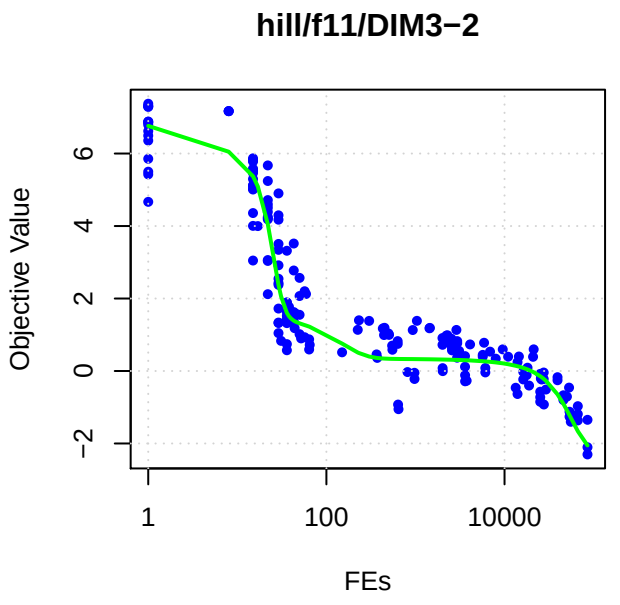
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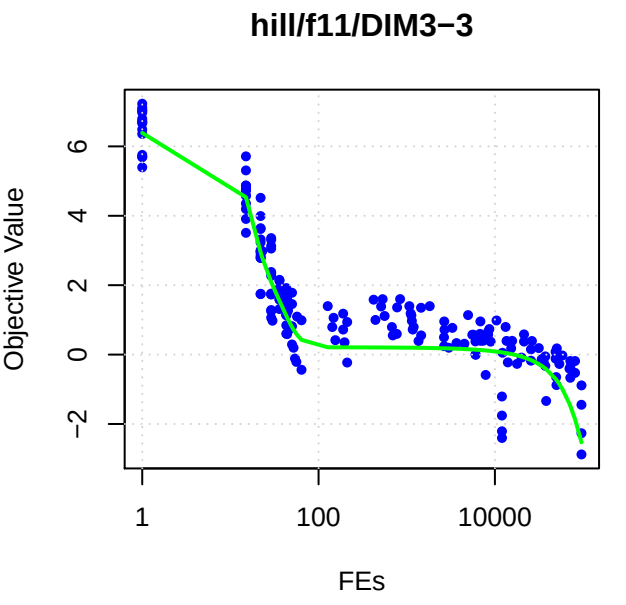
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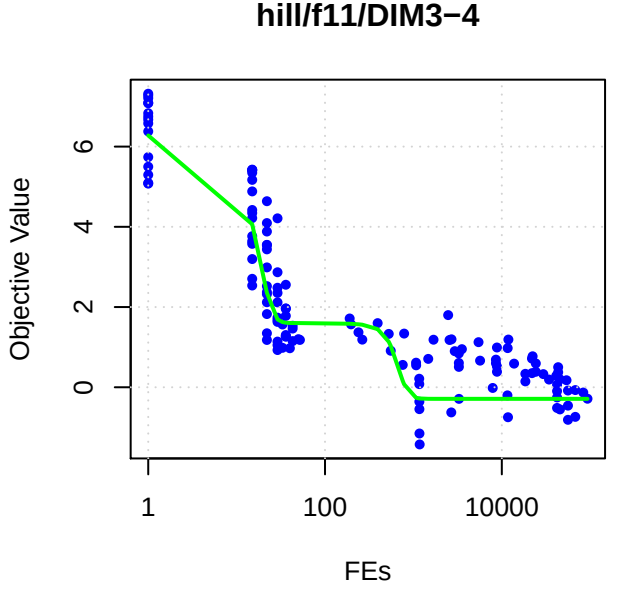
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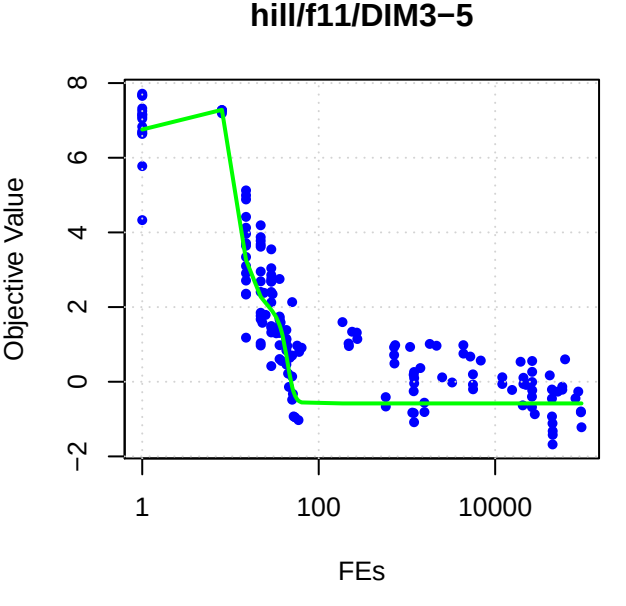
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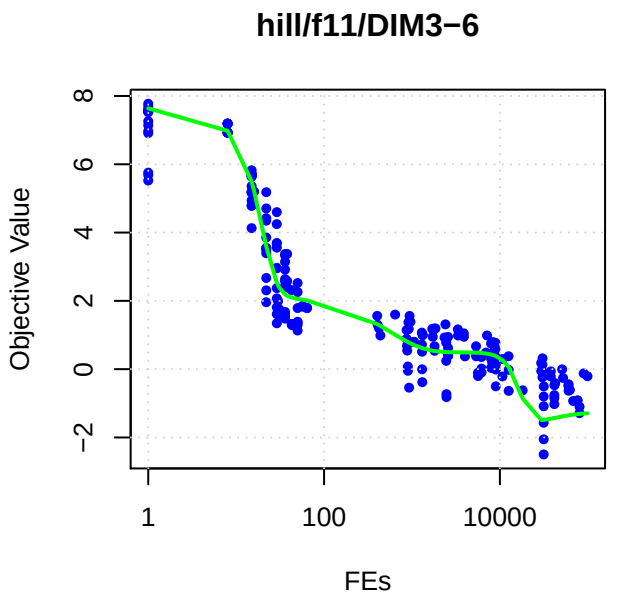
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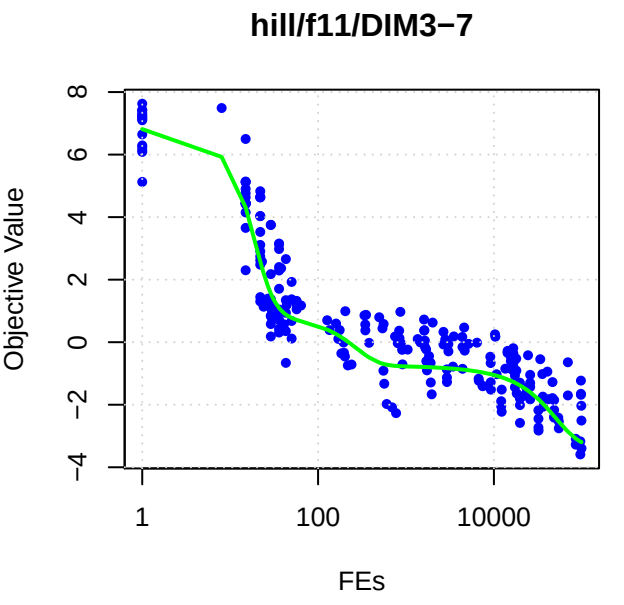
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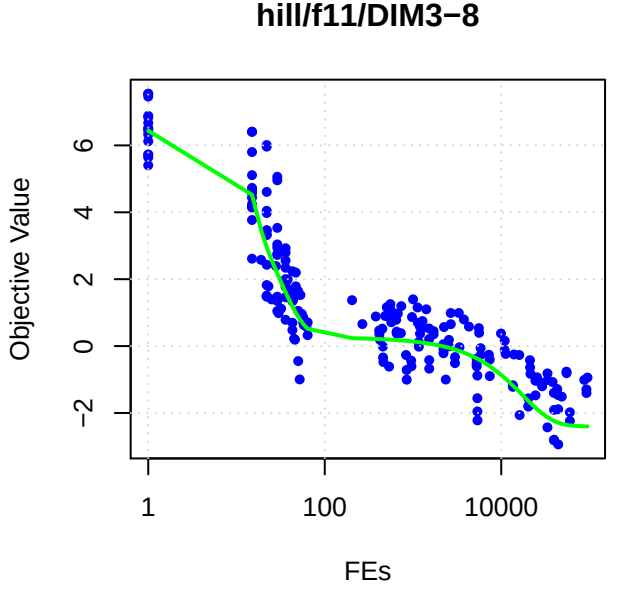
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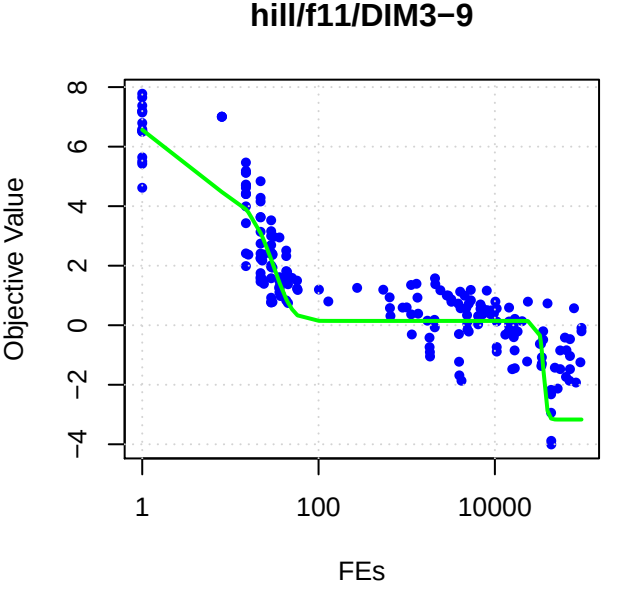
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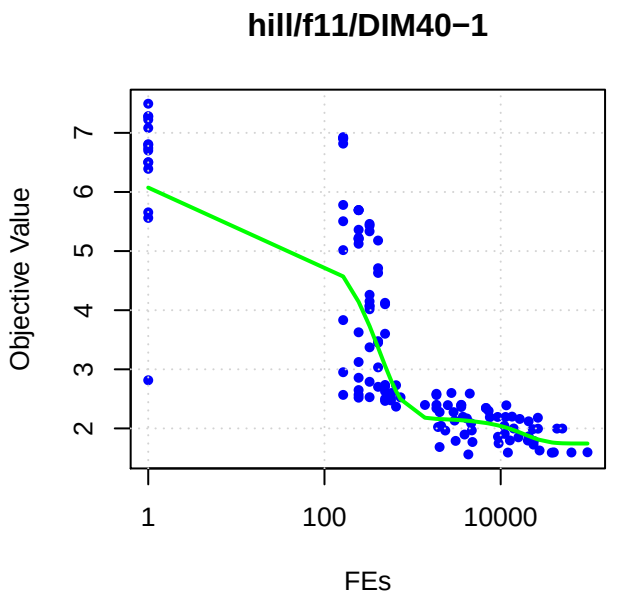
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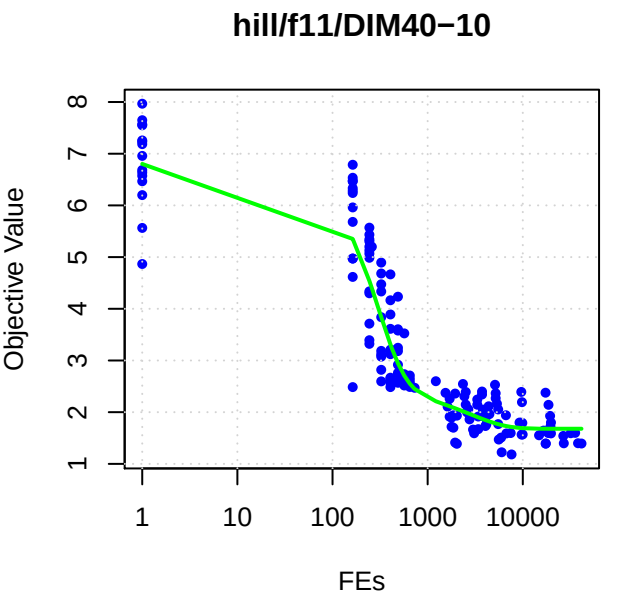
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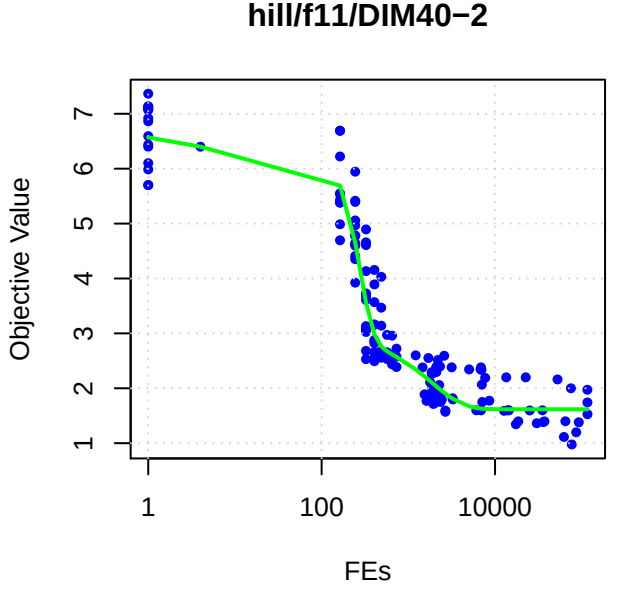
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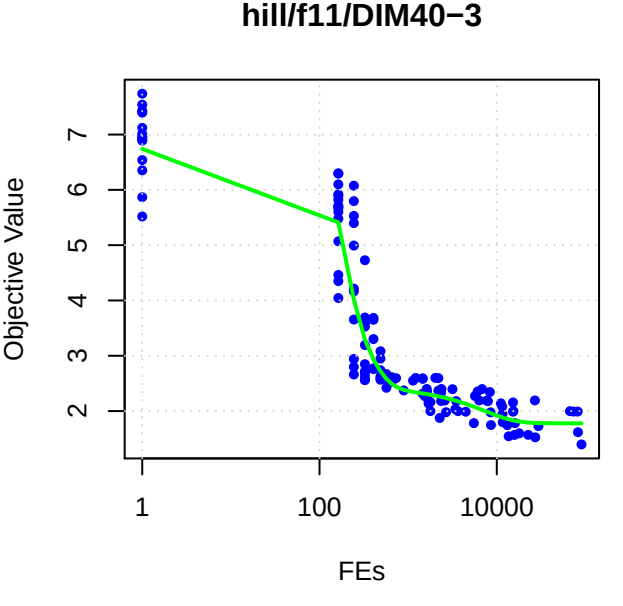
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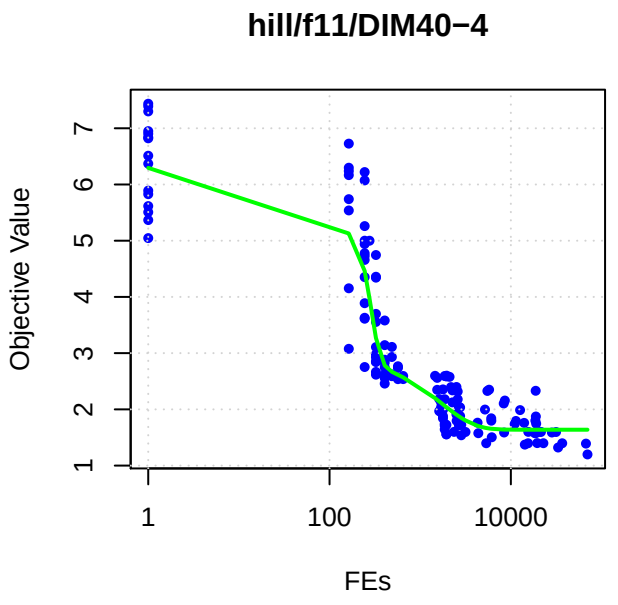
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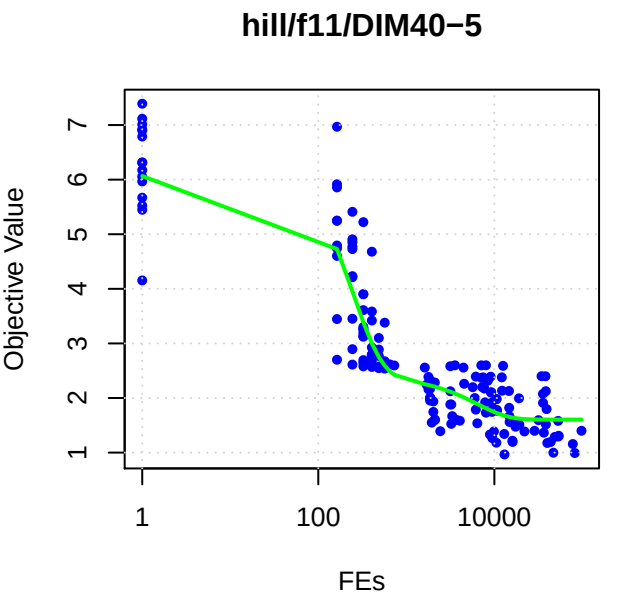
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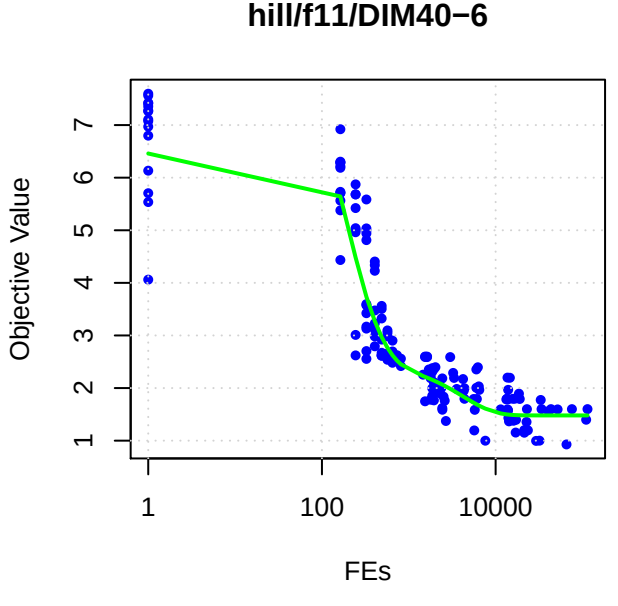
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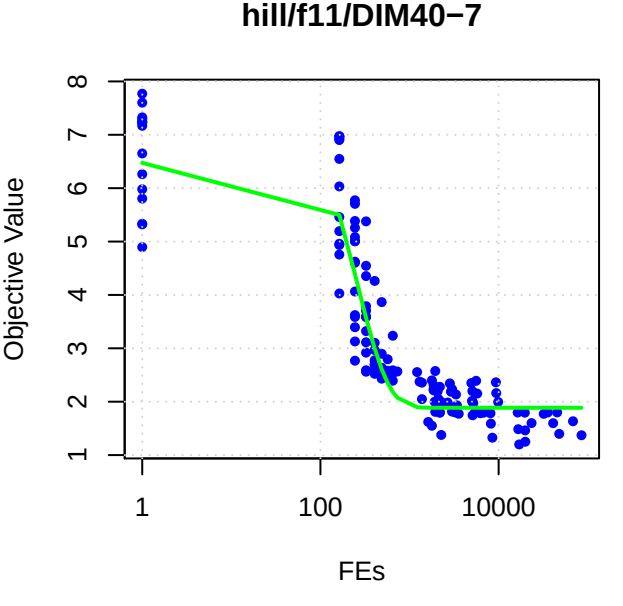
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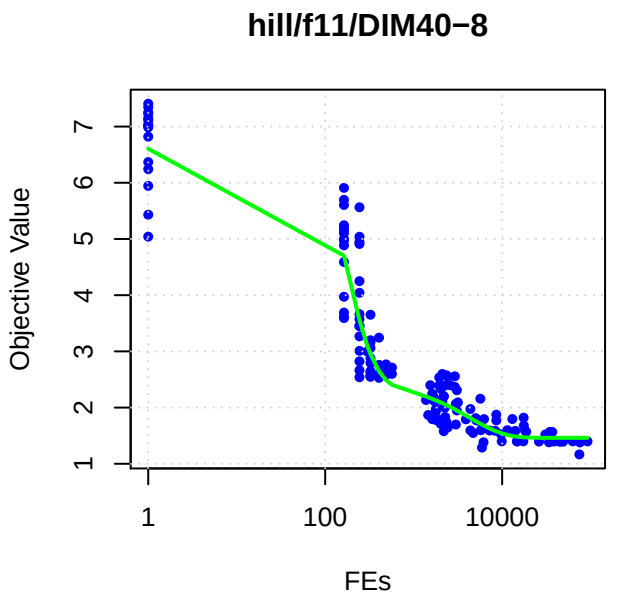
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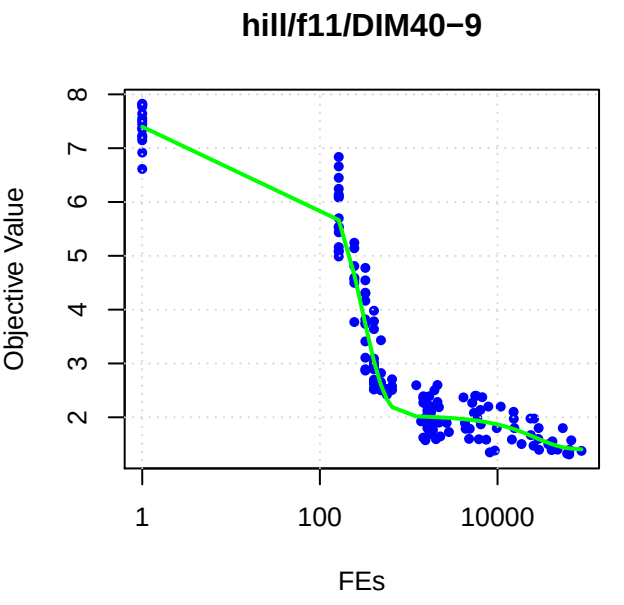
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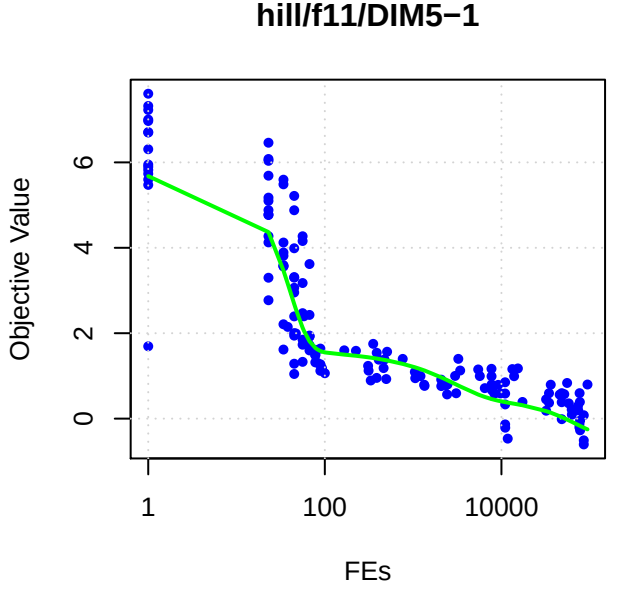
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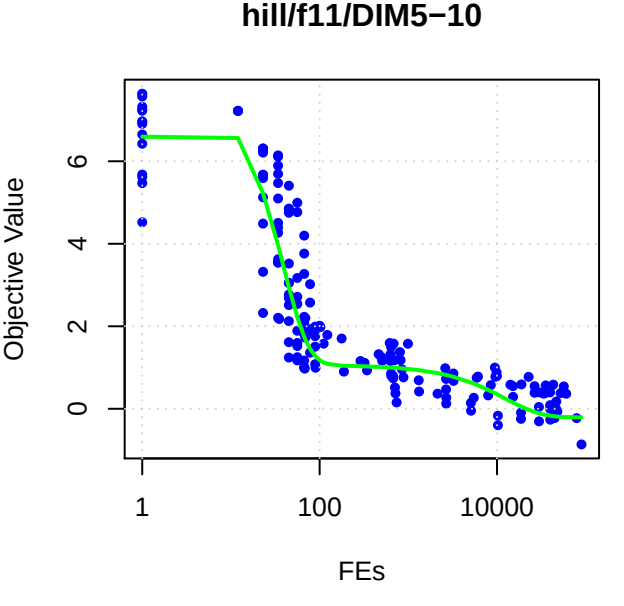
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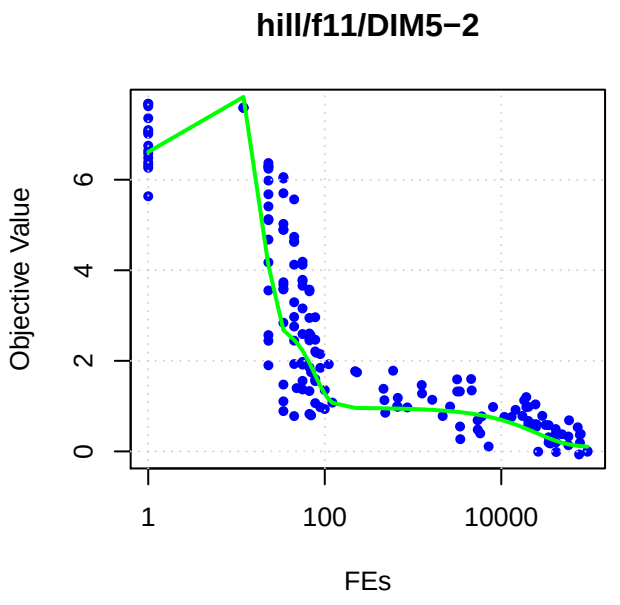
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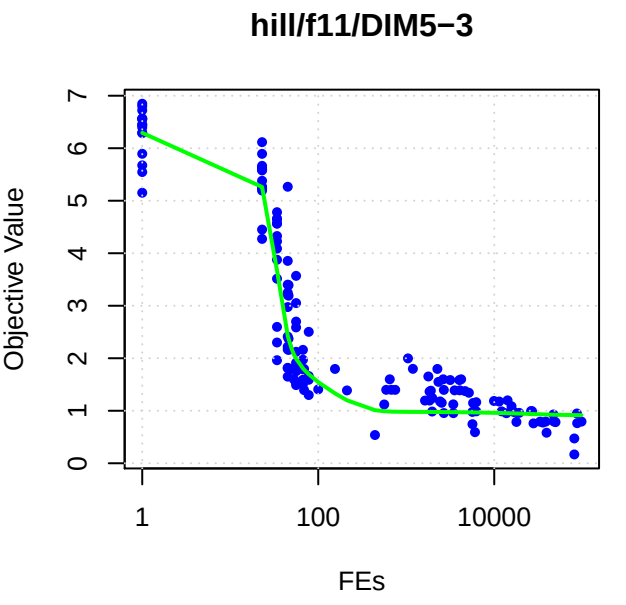
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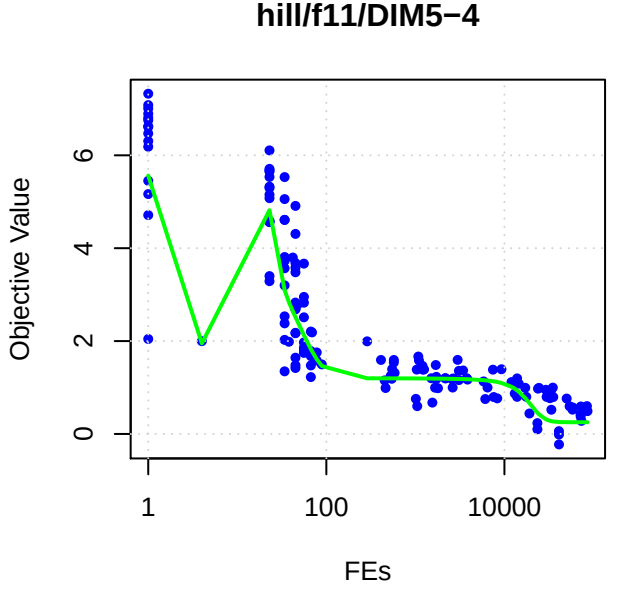
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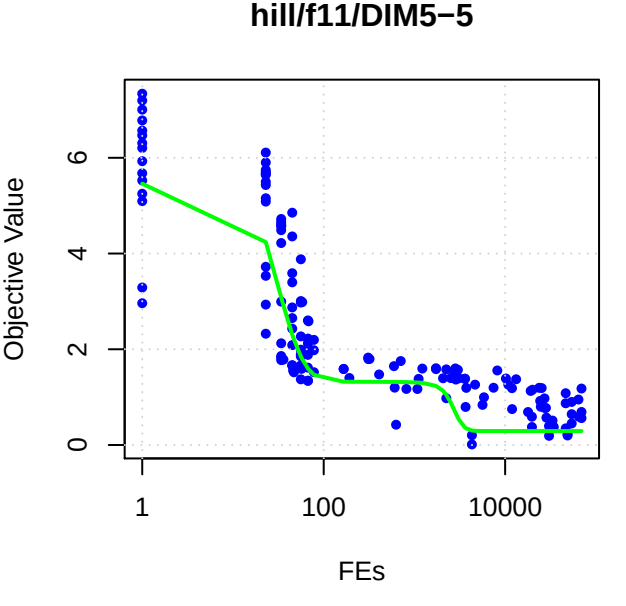
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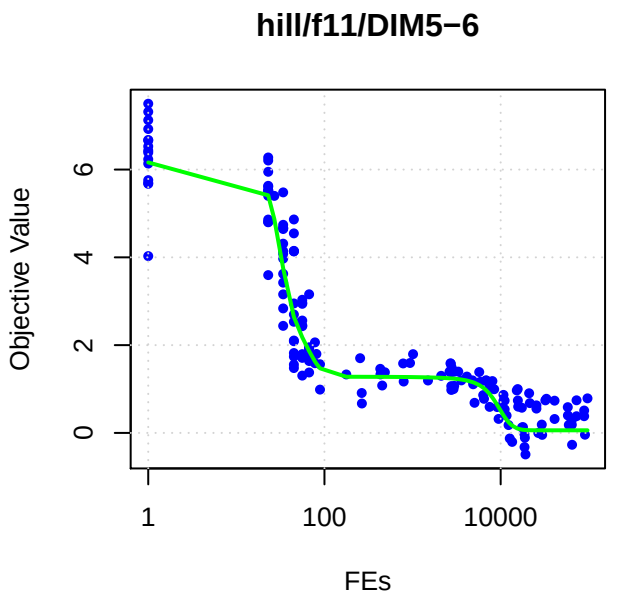
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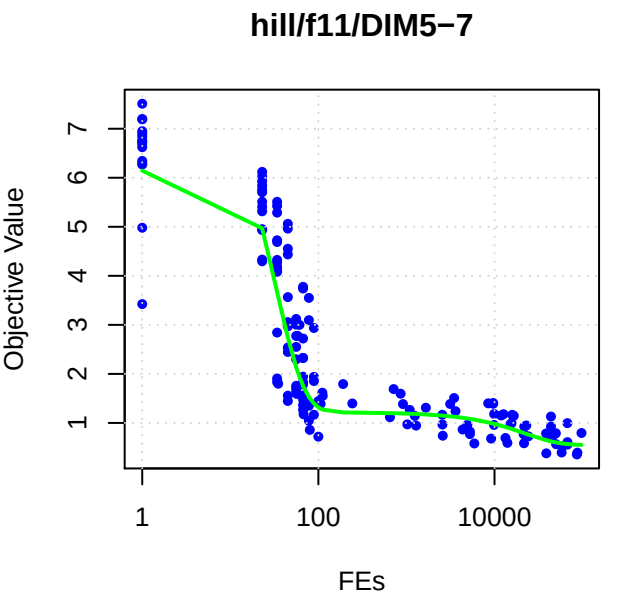
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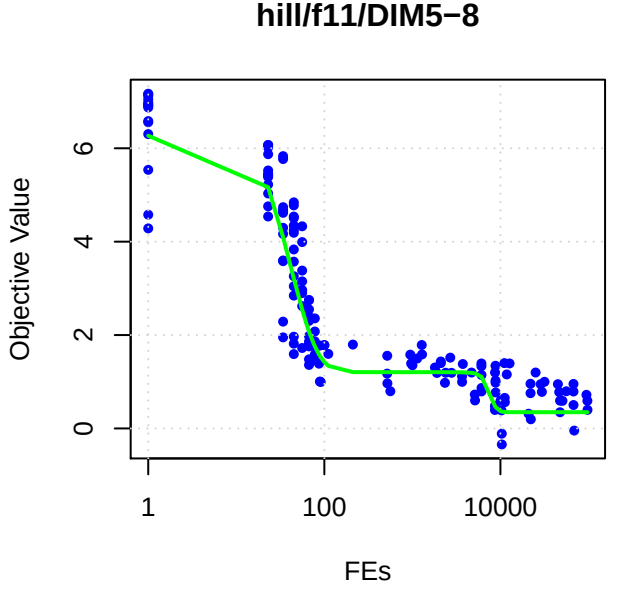
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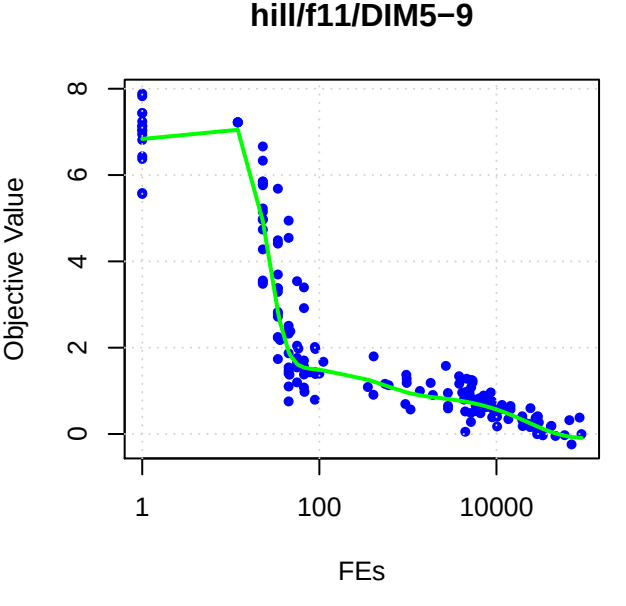
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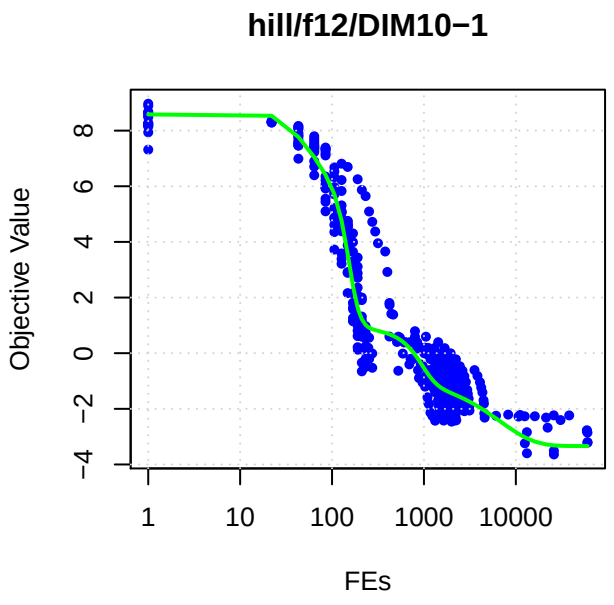
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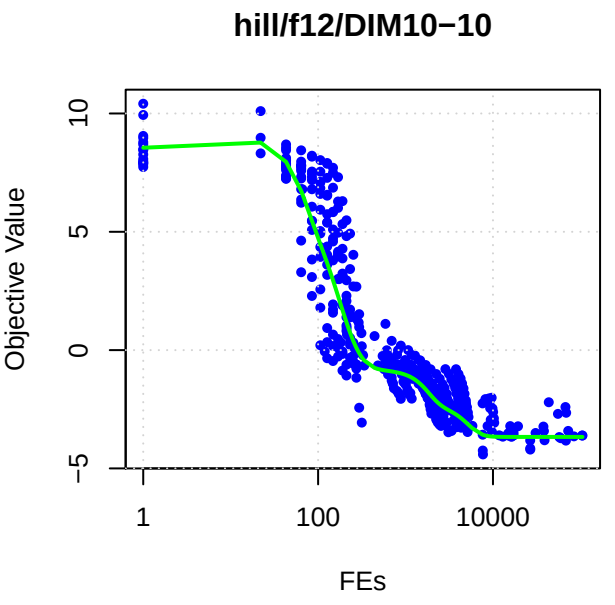
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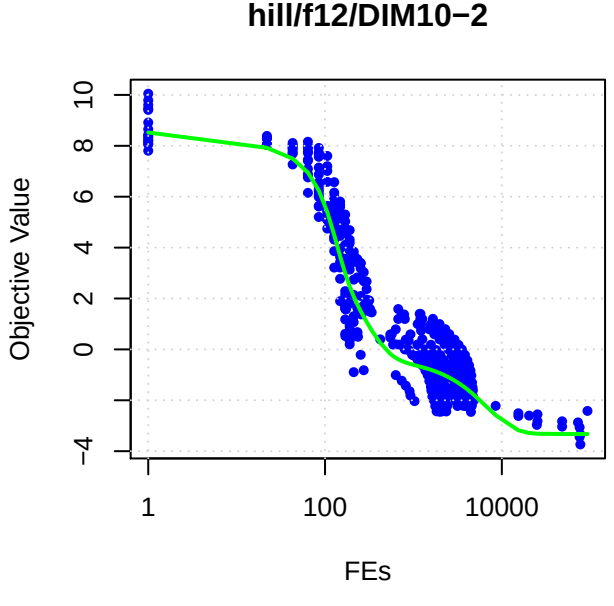
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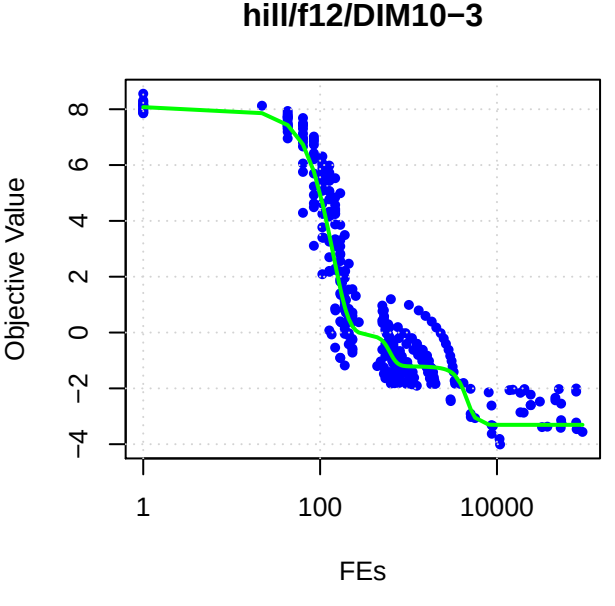
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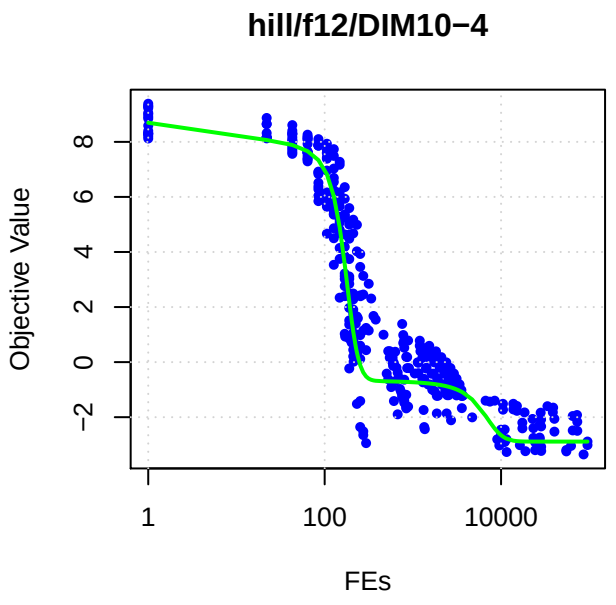
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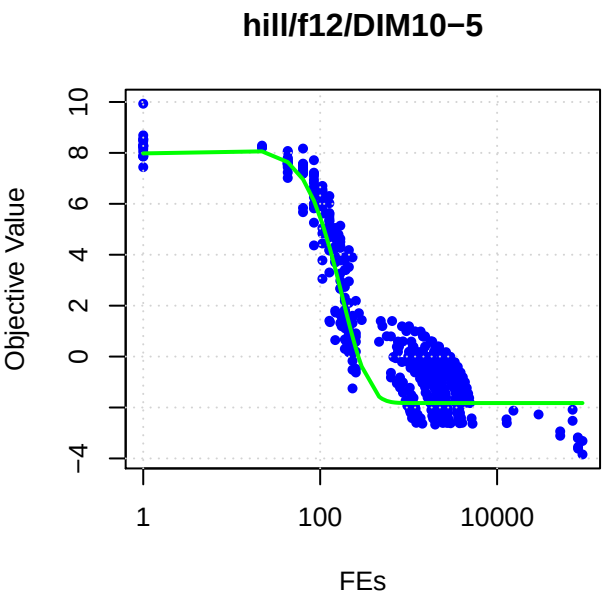
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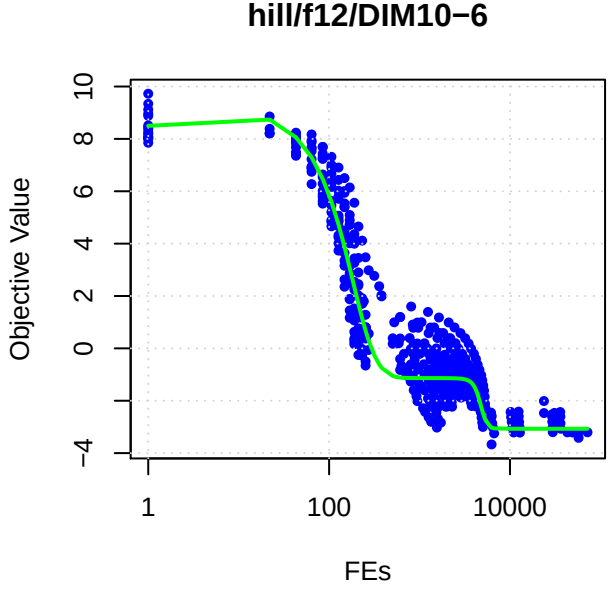
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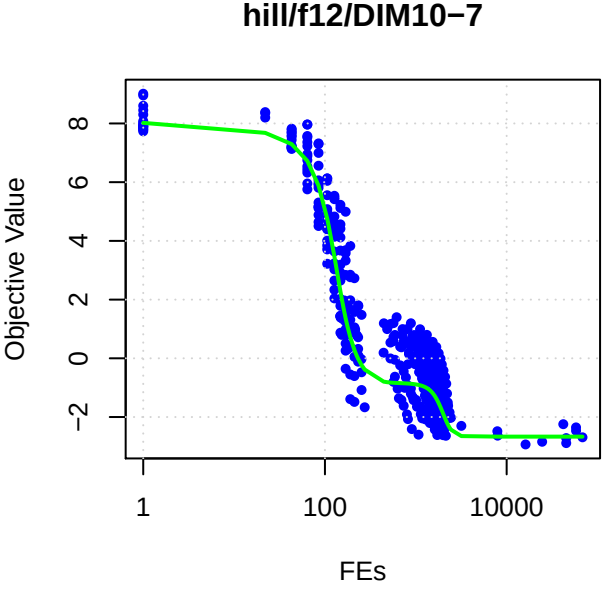
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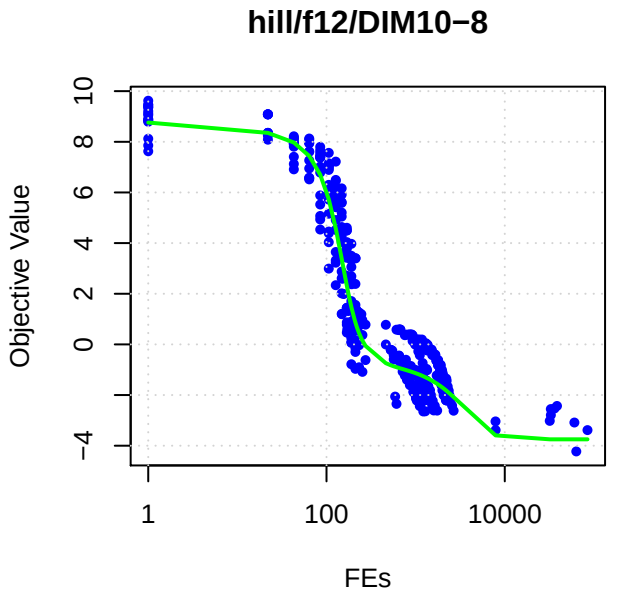
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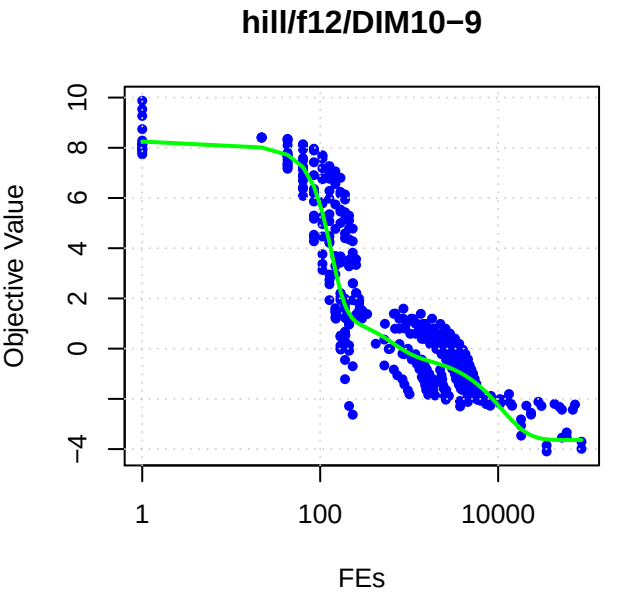
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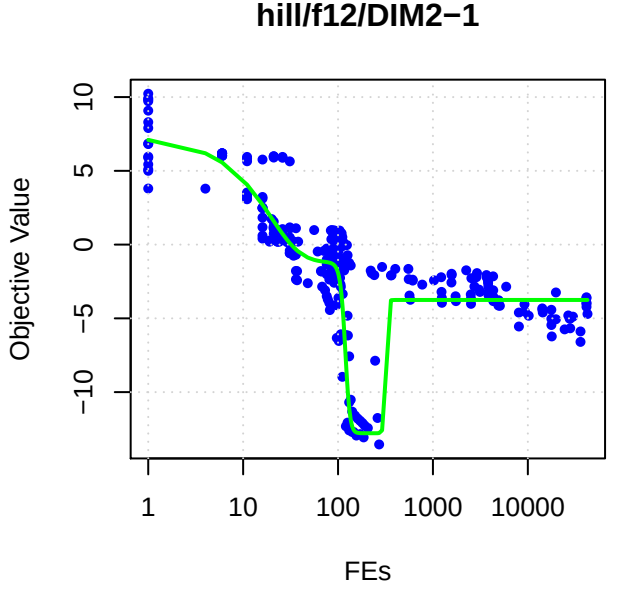
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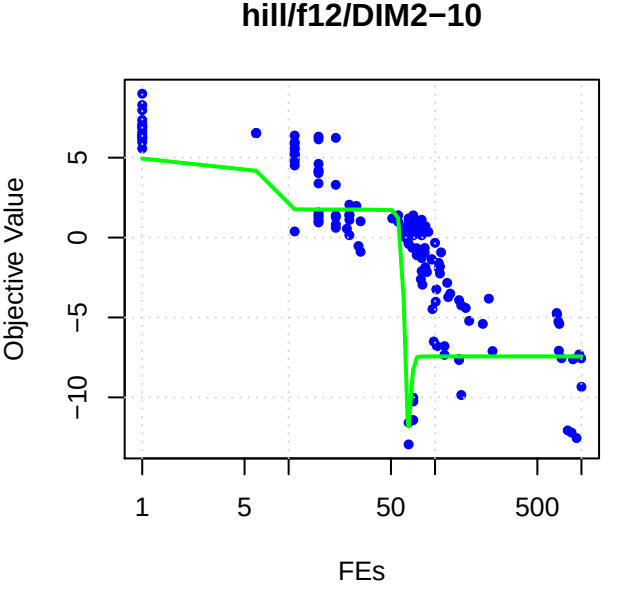
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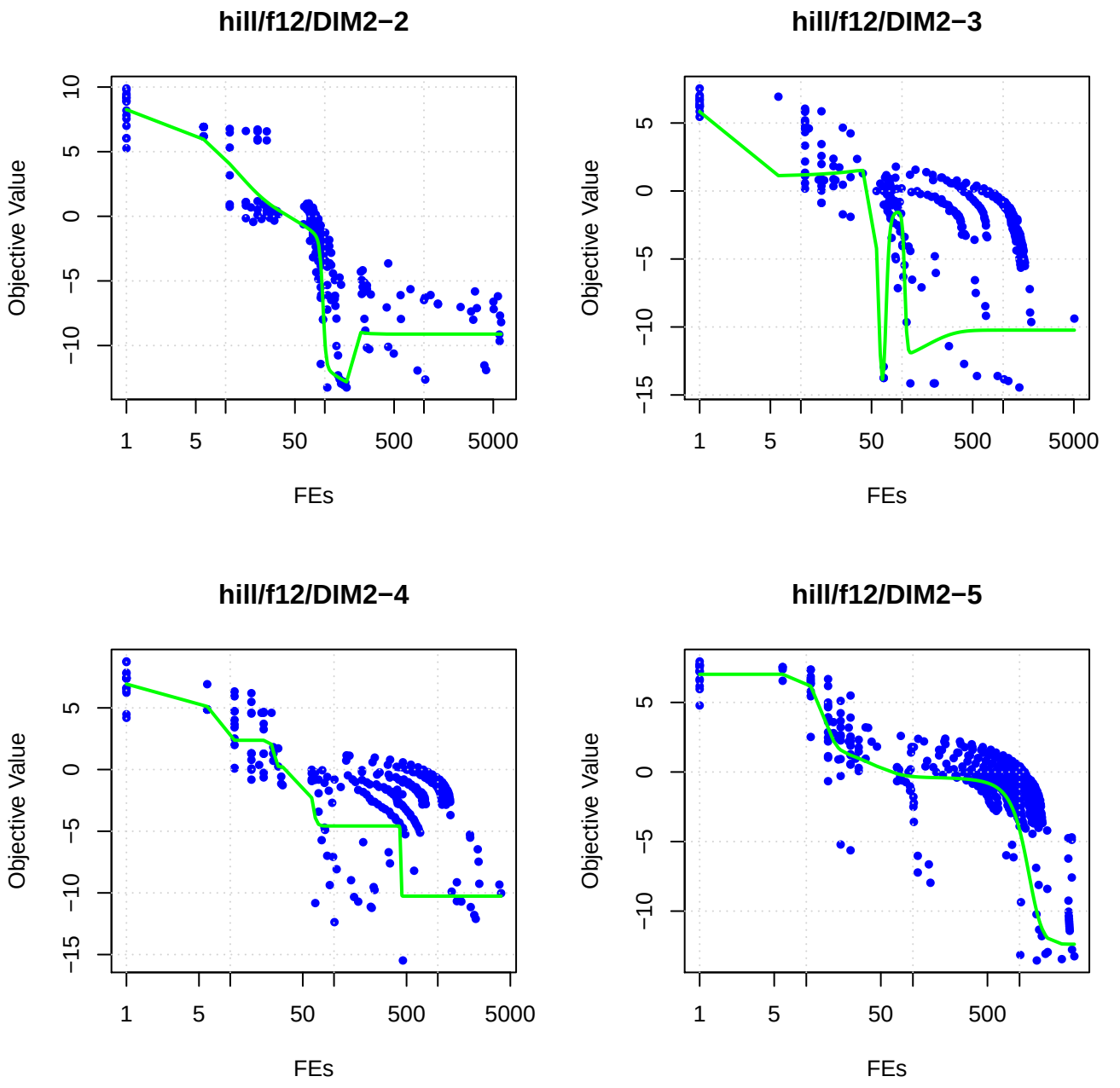
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Objective Value
FEs
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Objective Value
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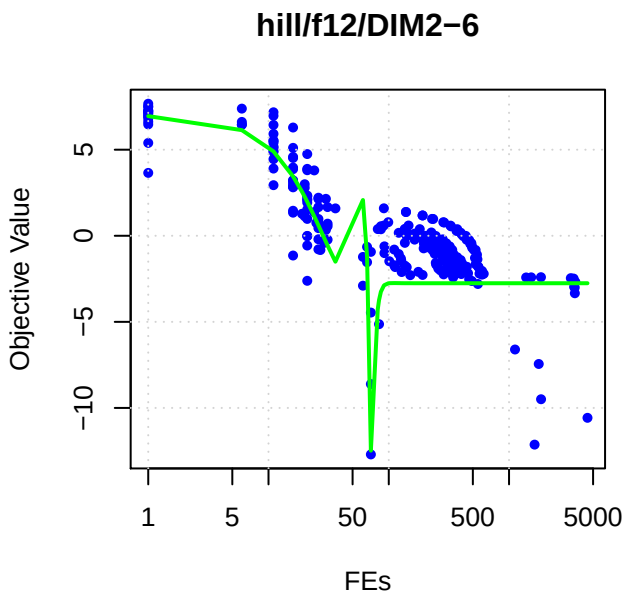
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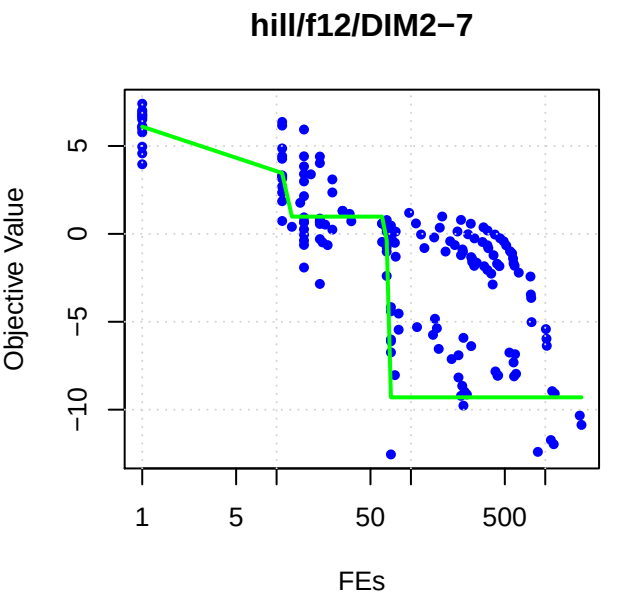
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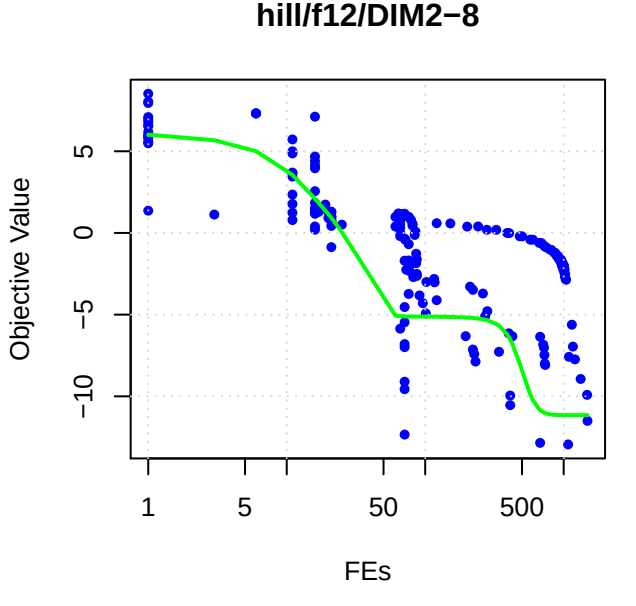
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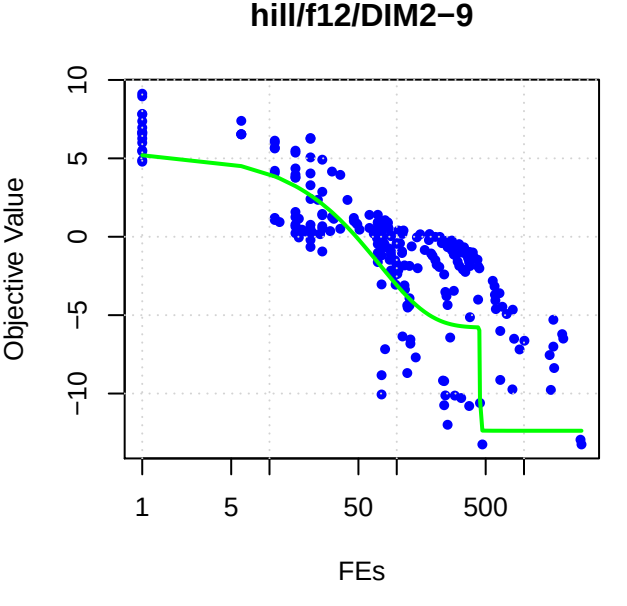
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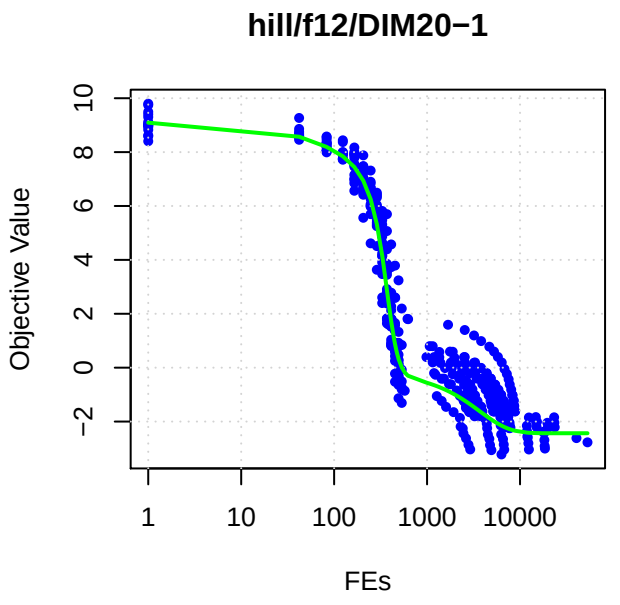
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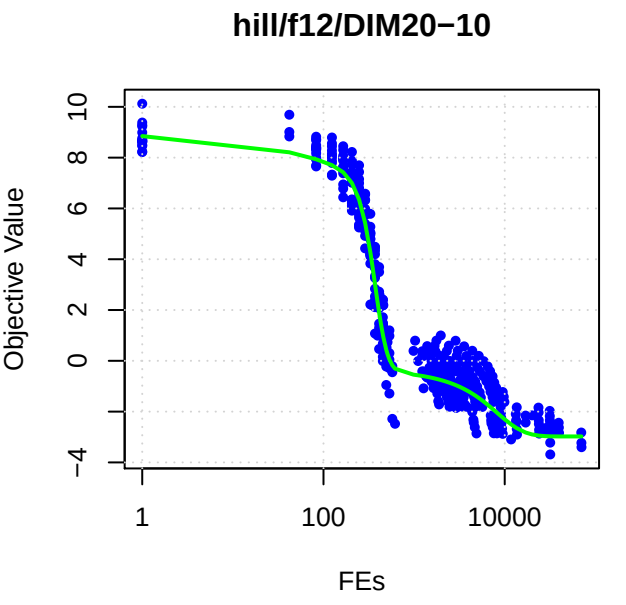
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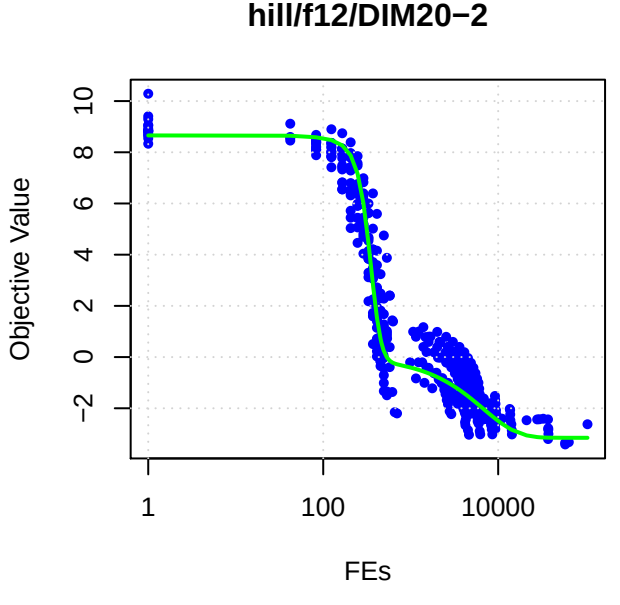
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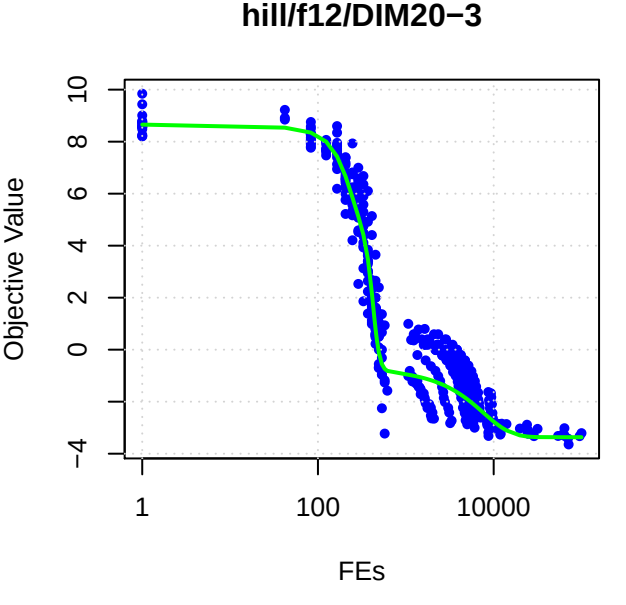
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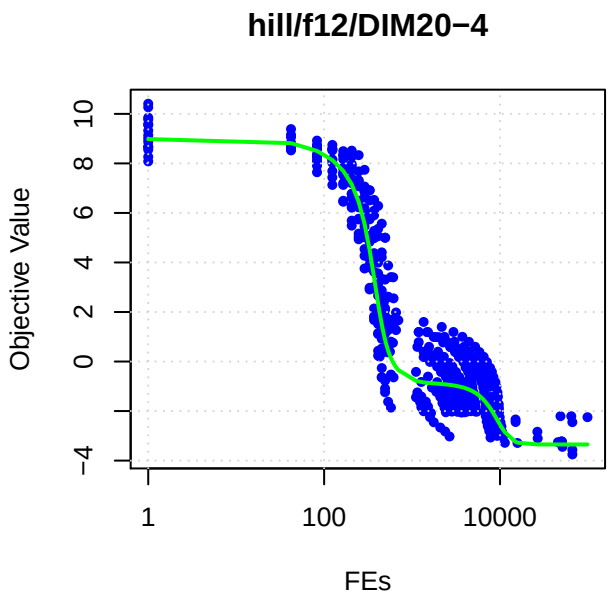
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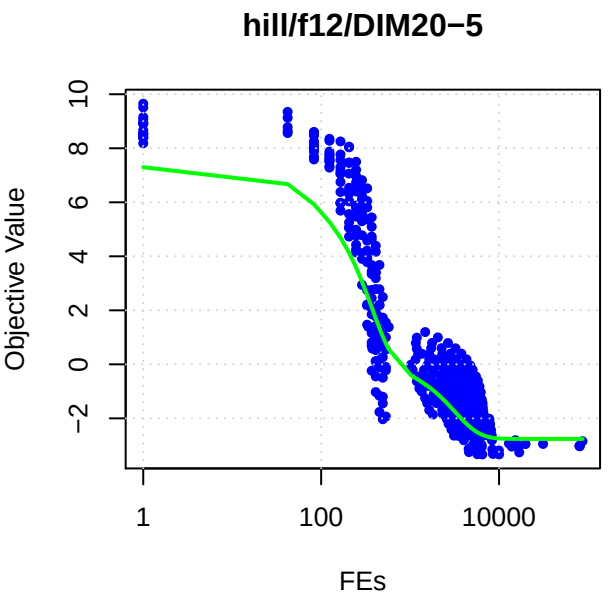
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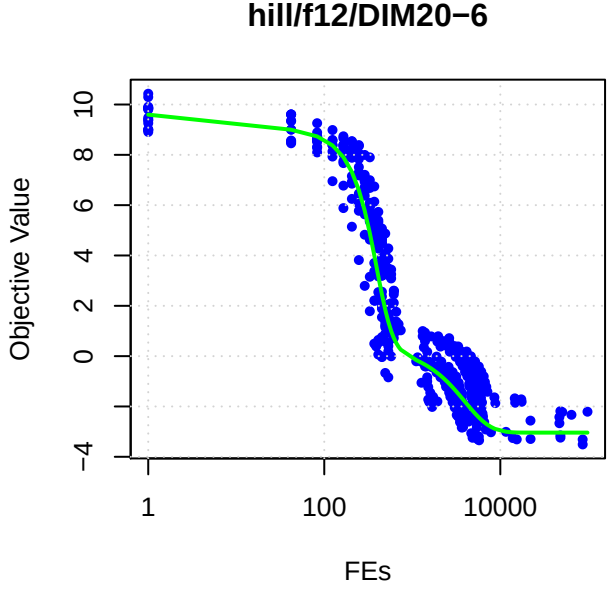
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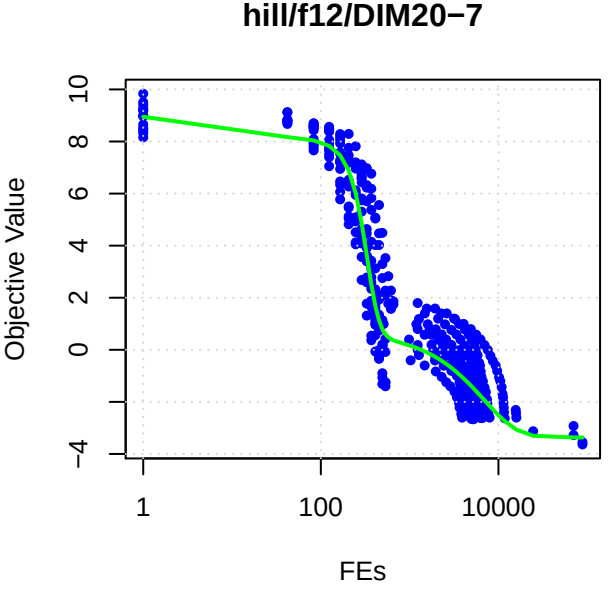
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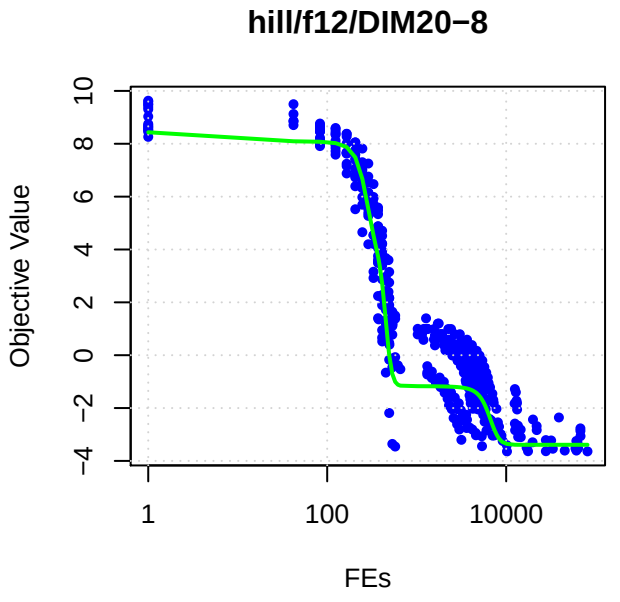
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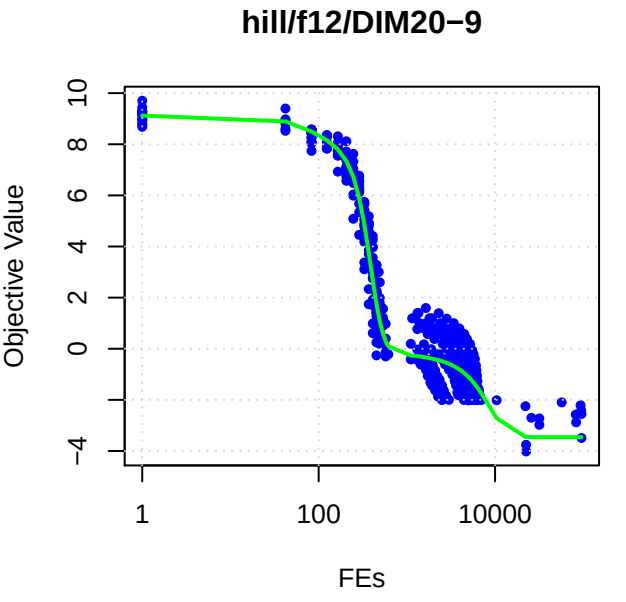
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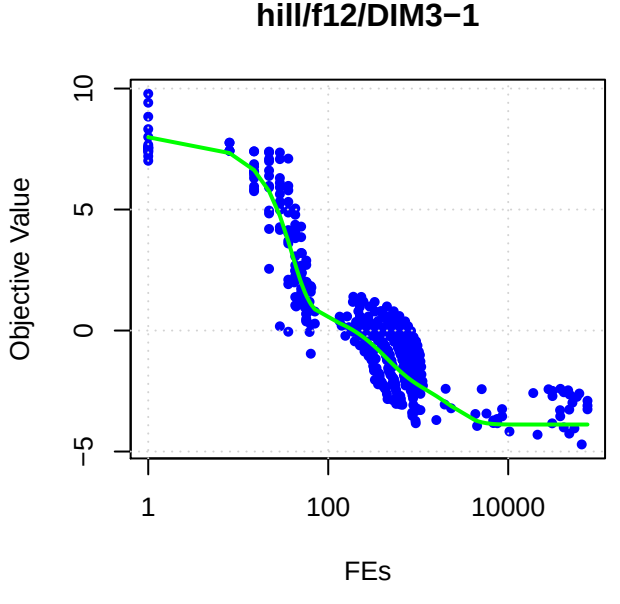
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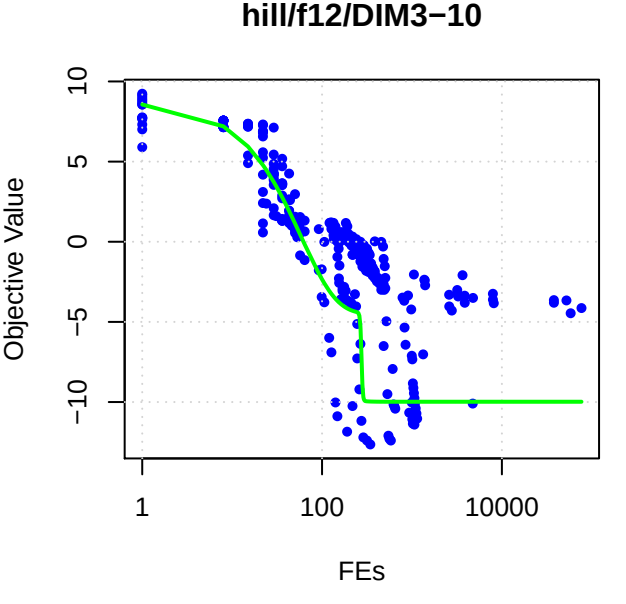
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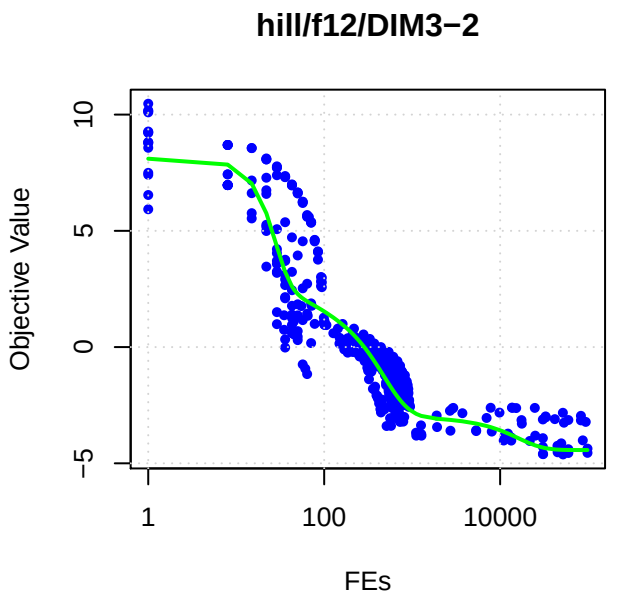
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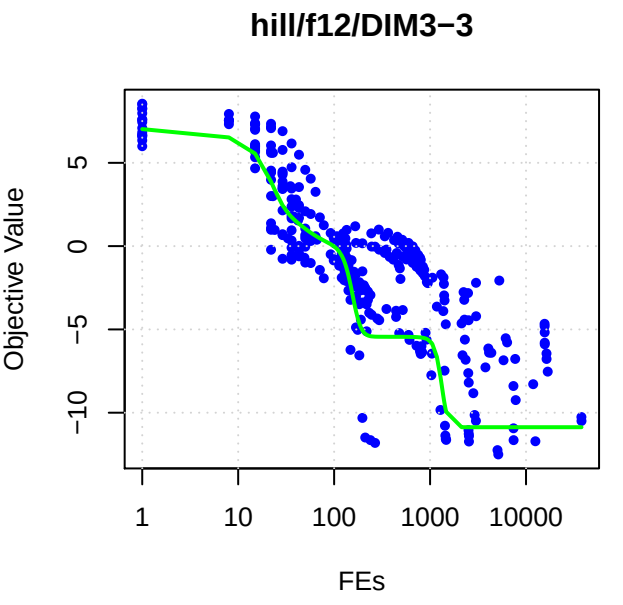
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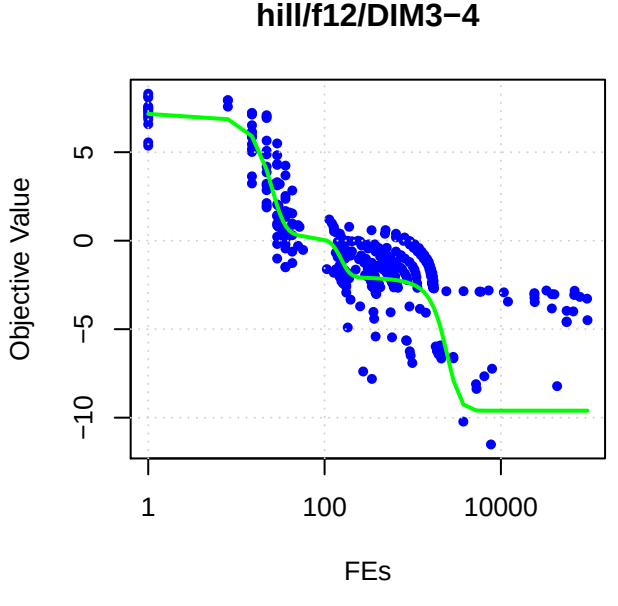
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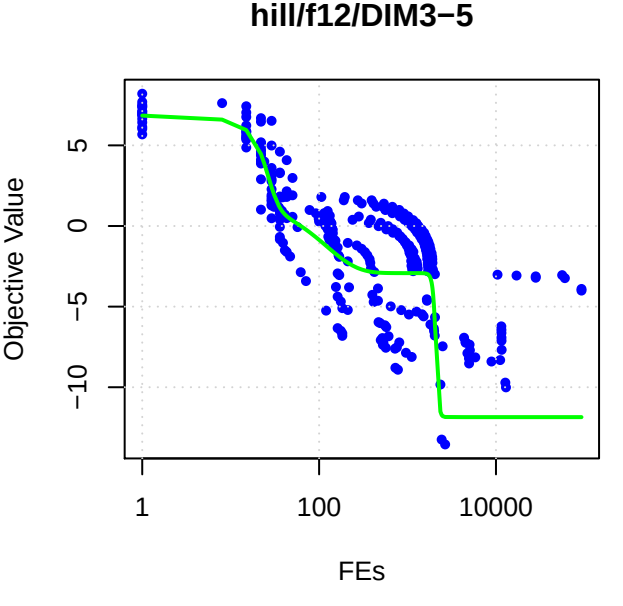
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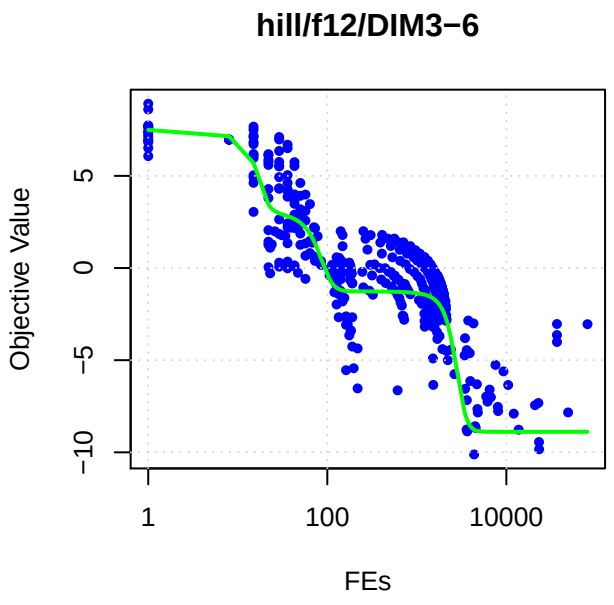
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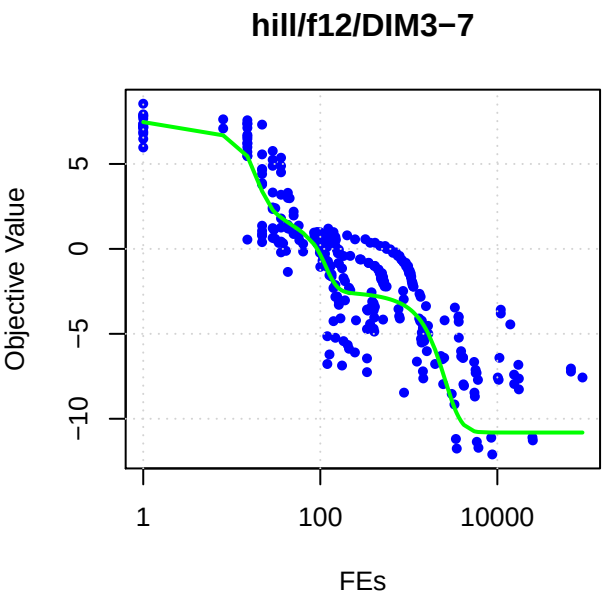
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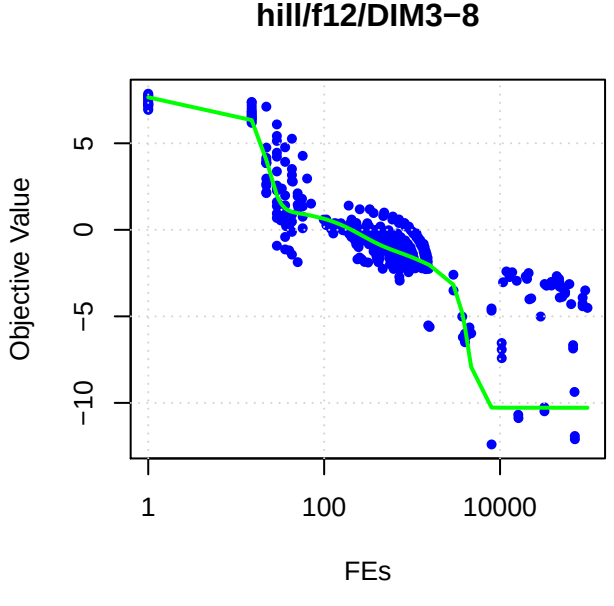
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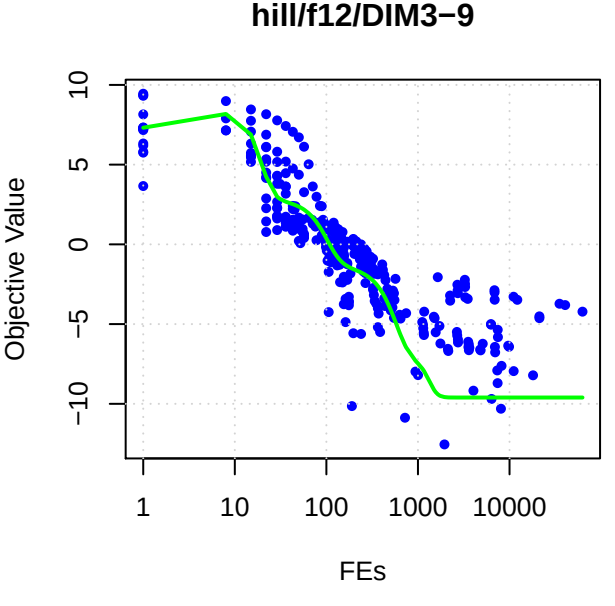
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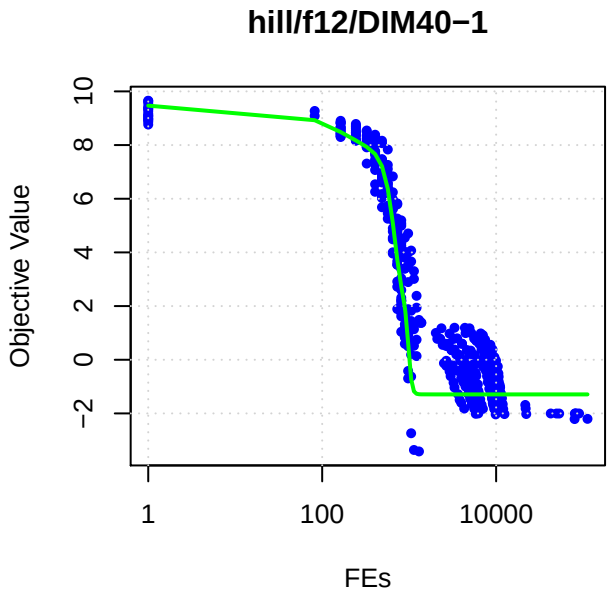
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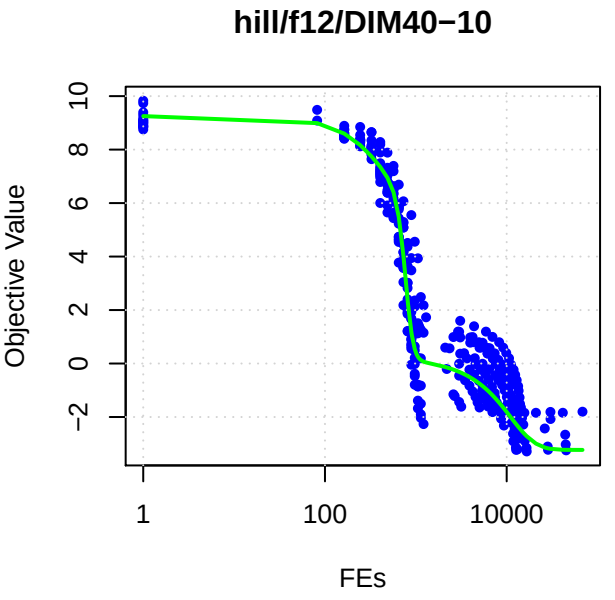
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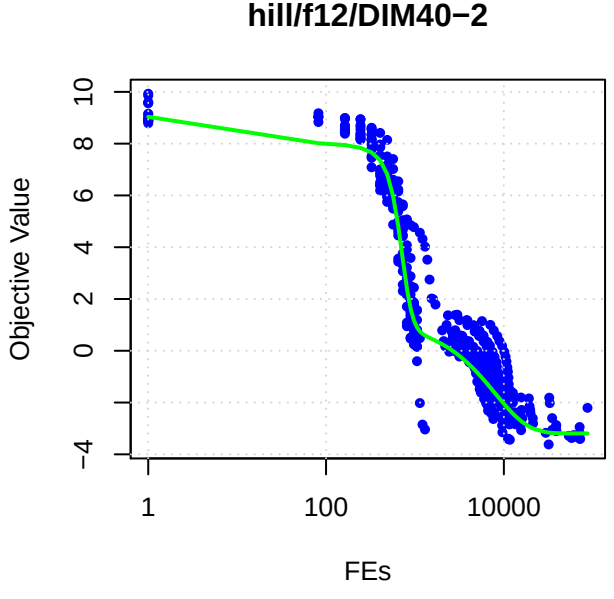
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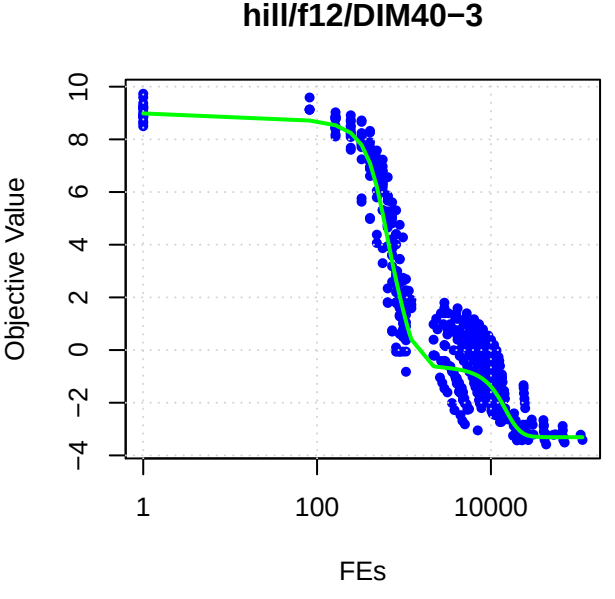
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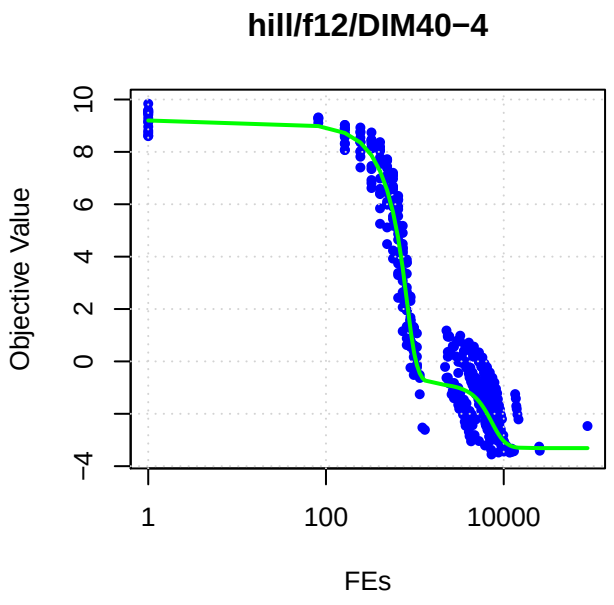
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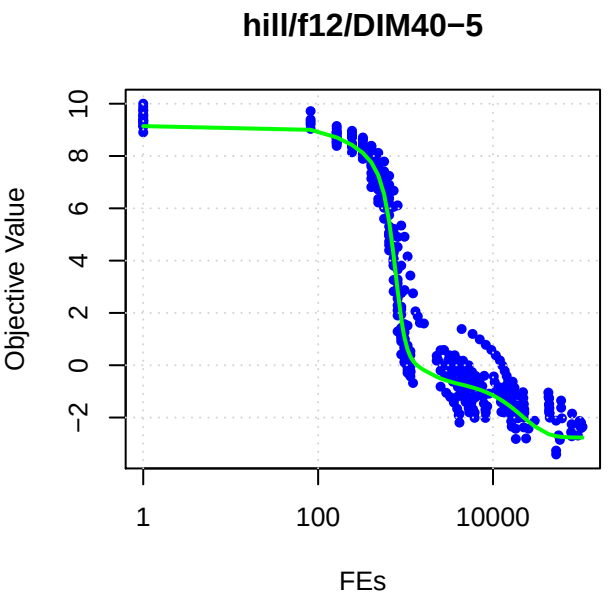
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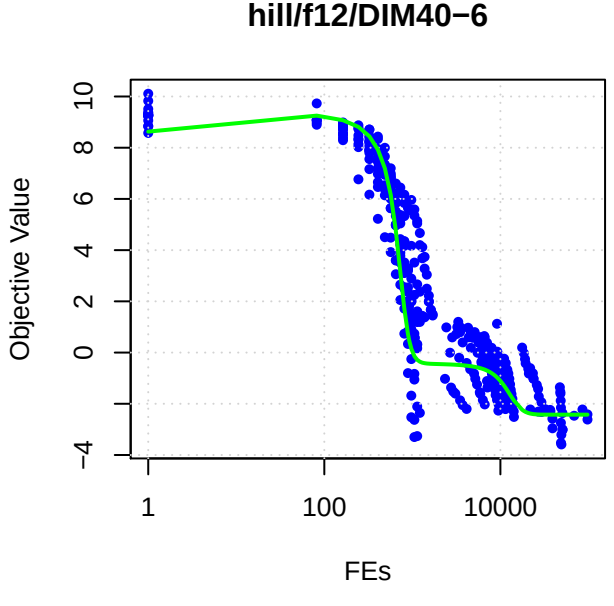
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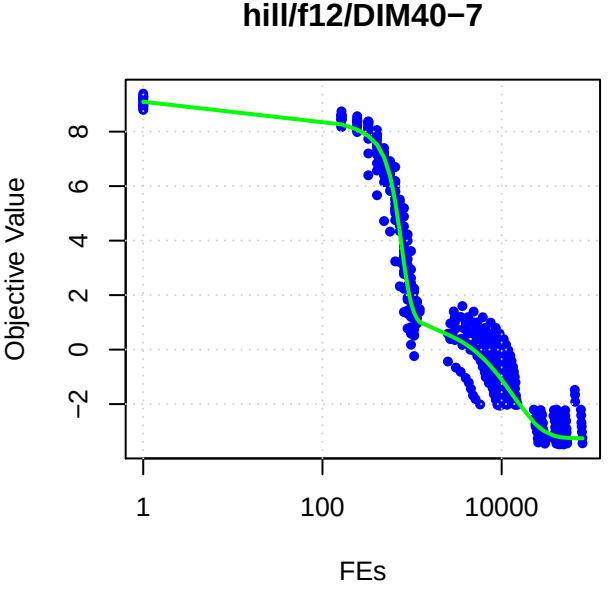
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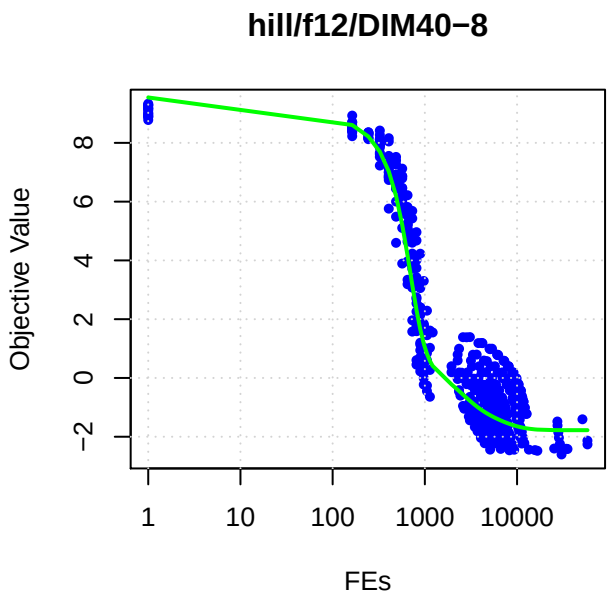
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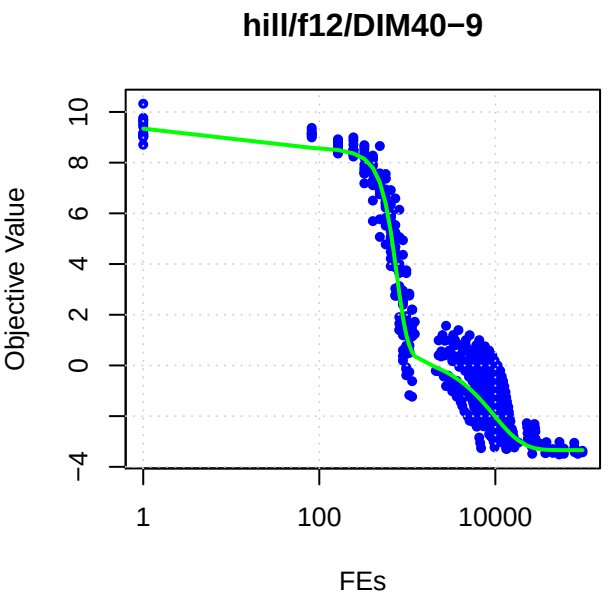
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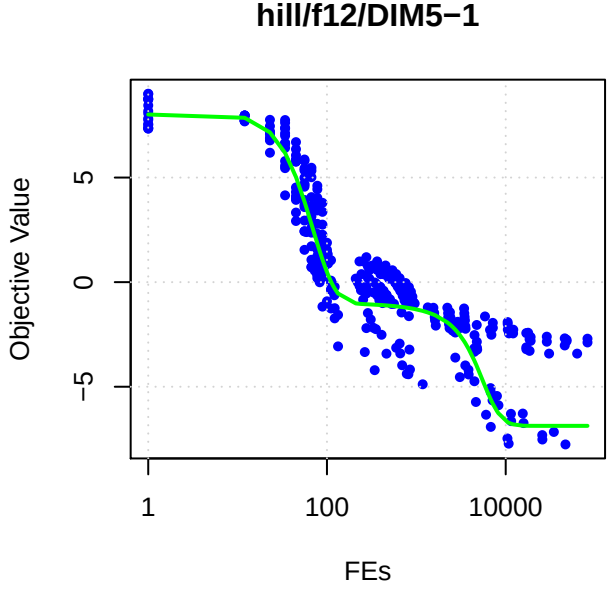
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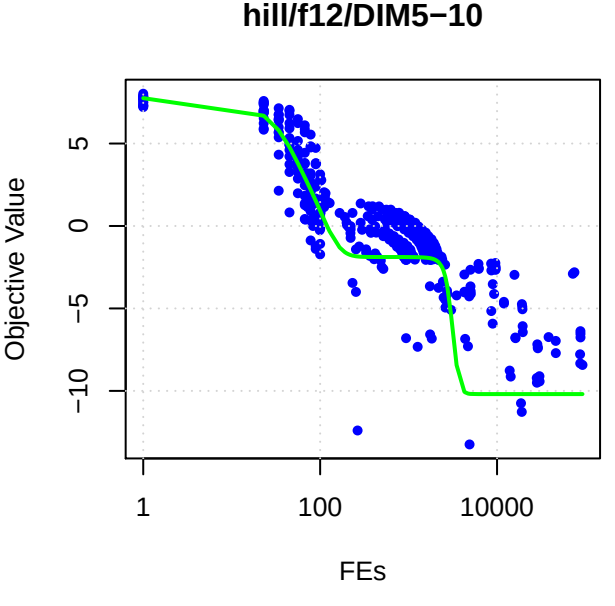
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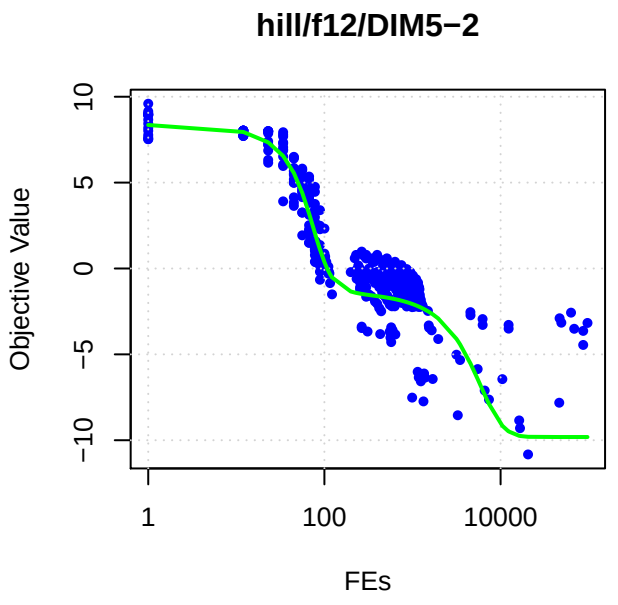
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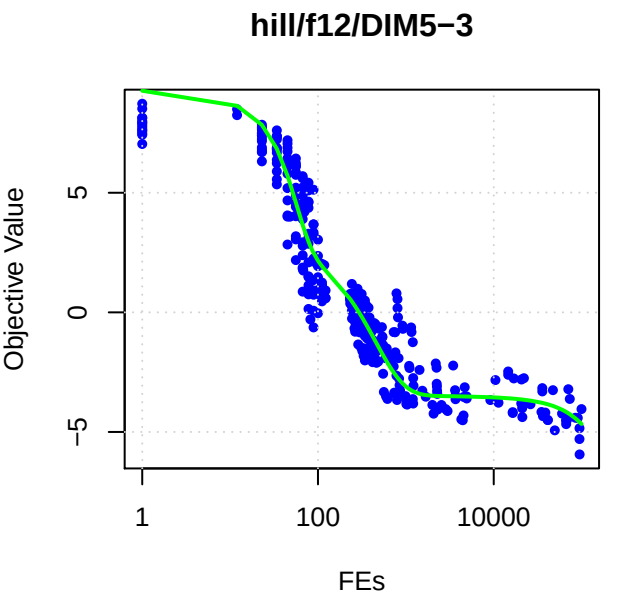
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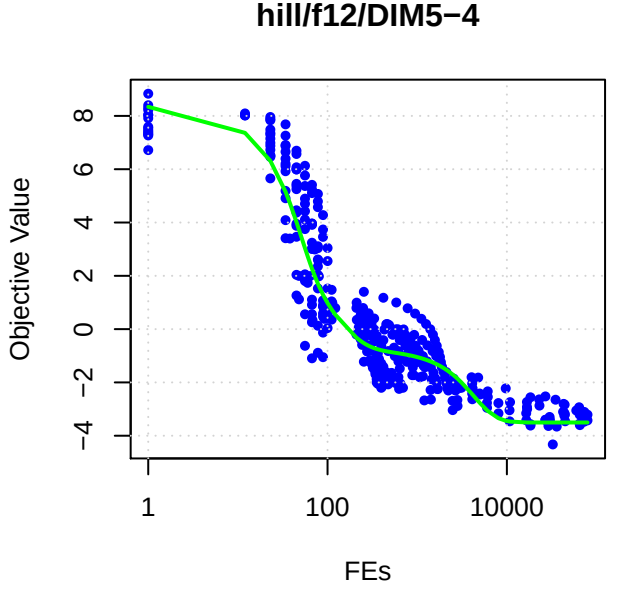
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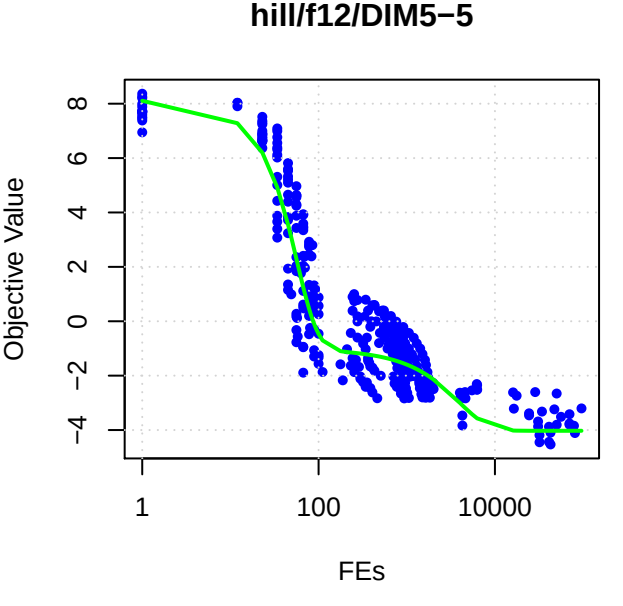
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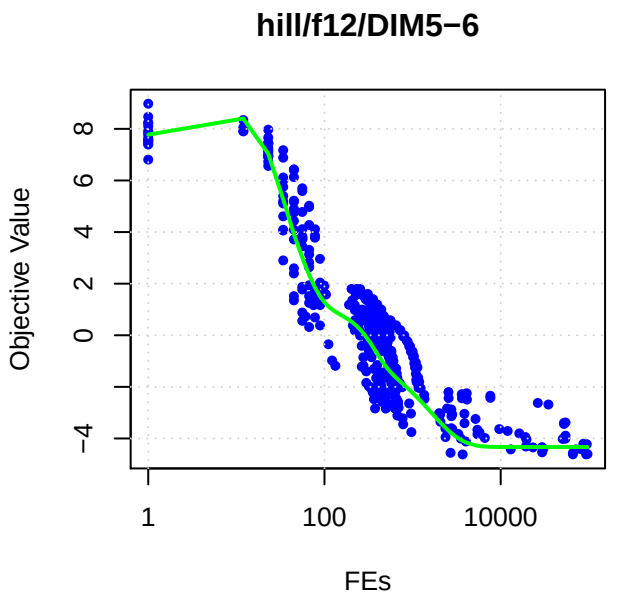
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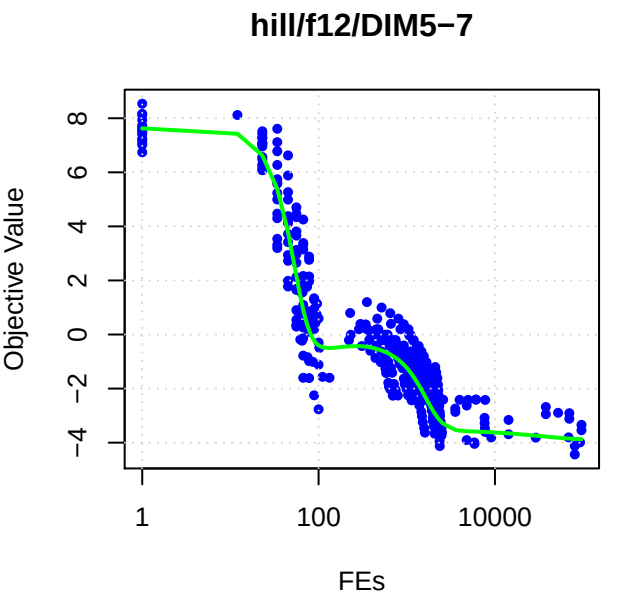
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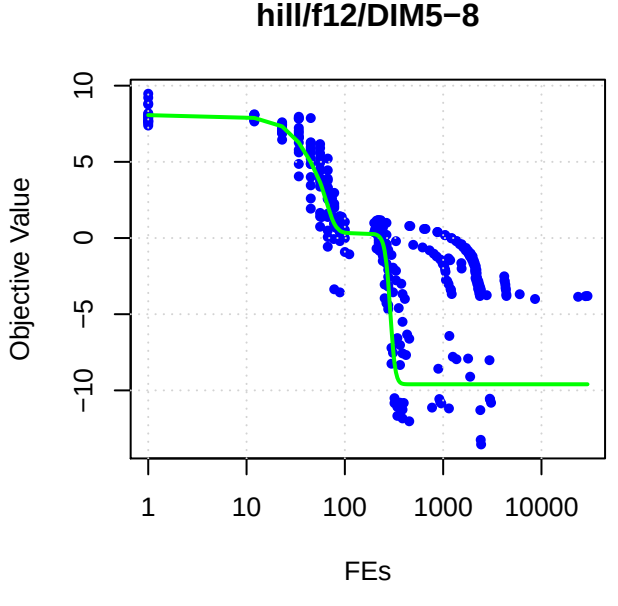
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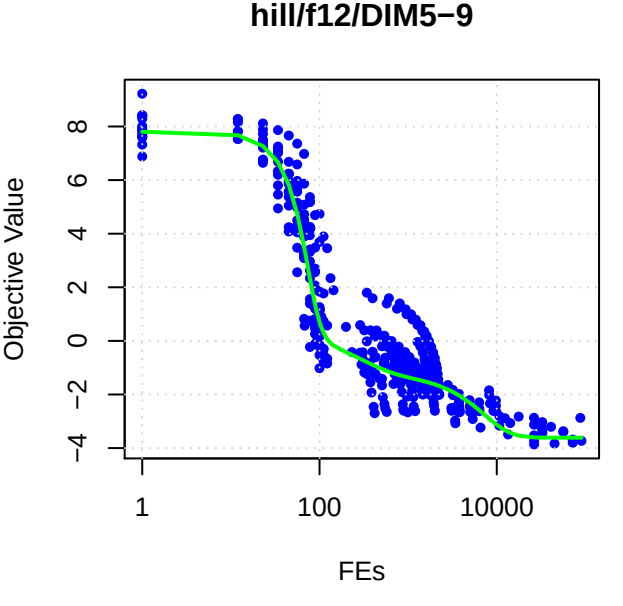
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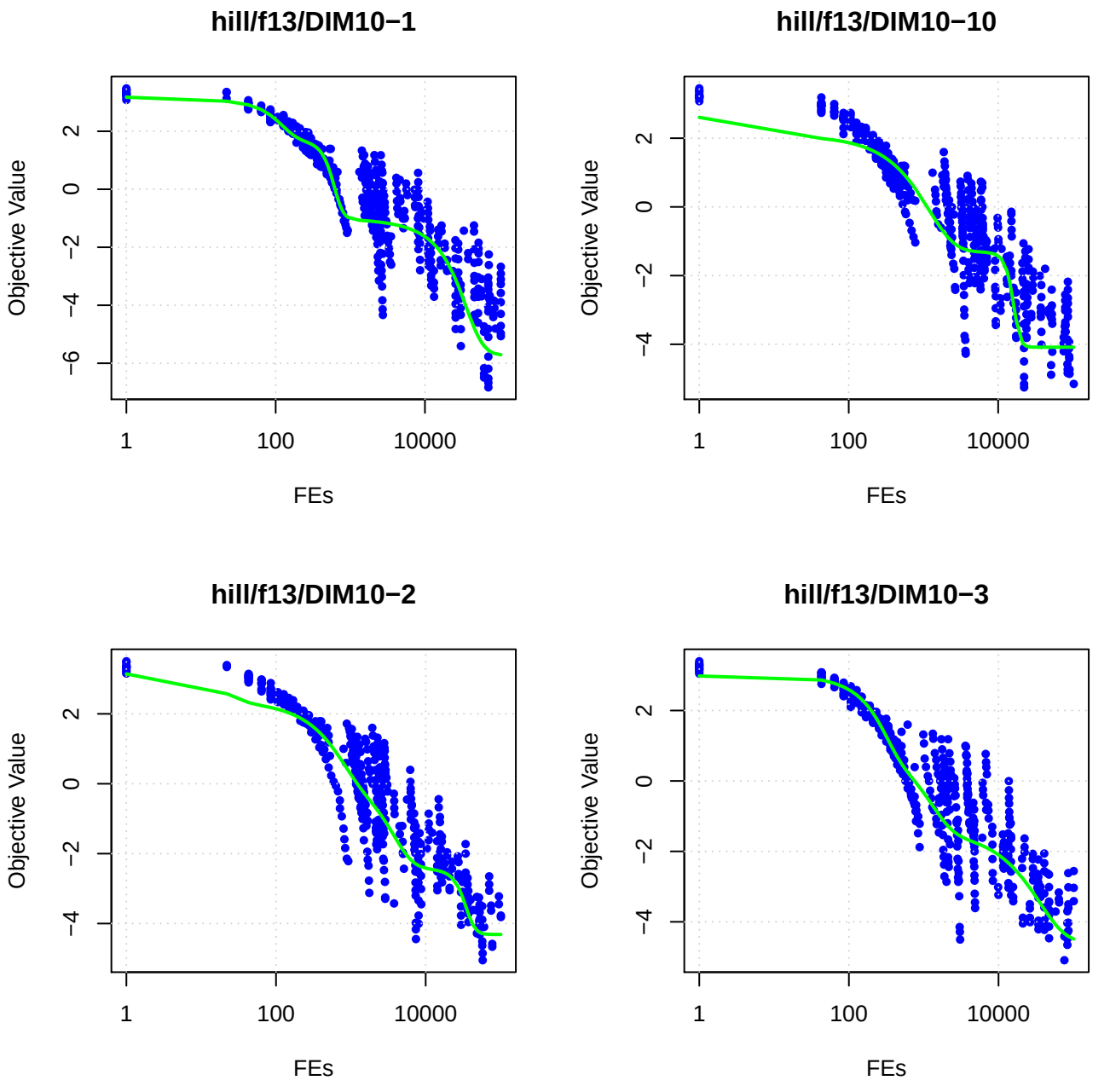
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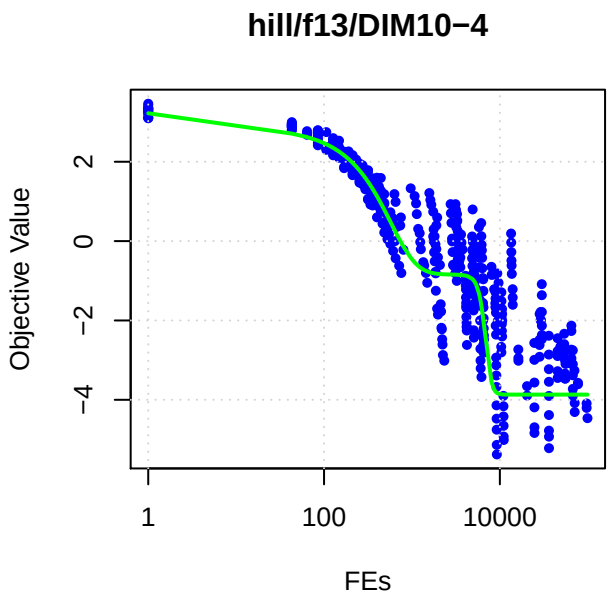
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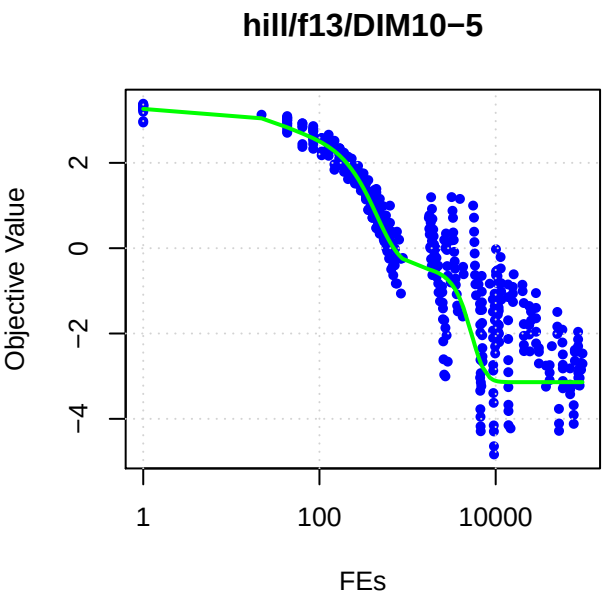
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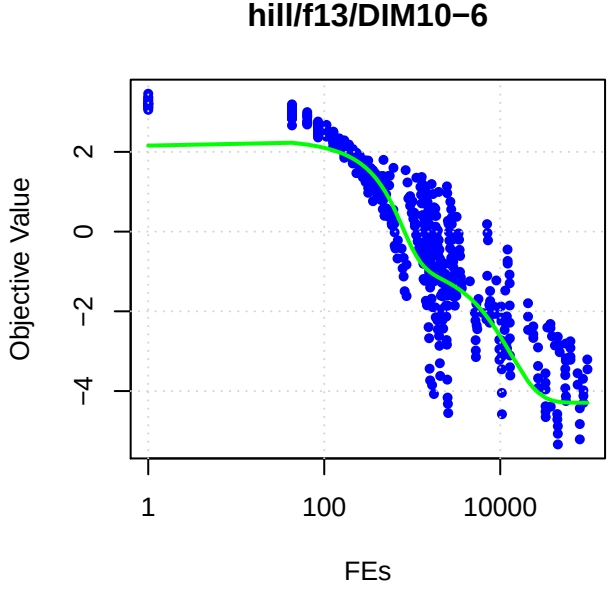
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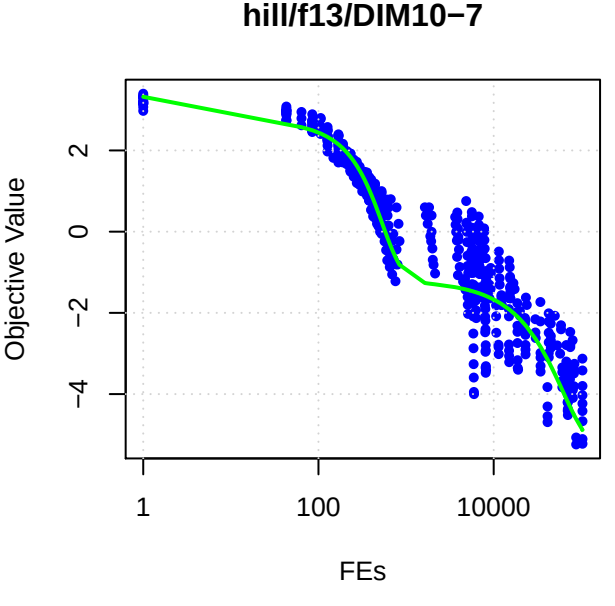
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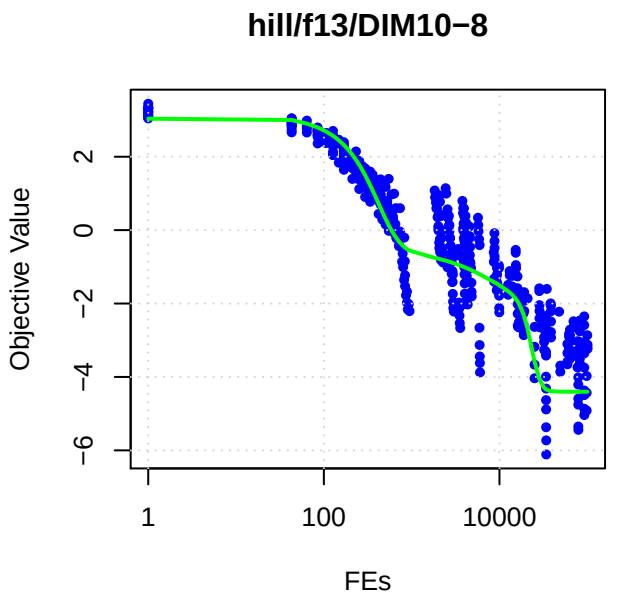
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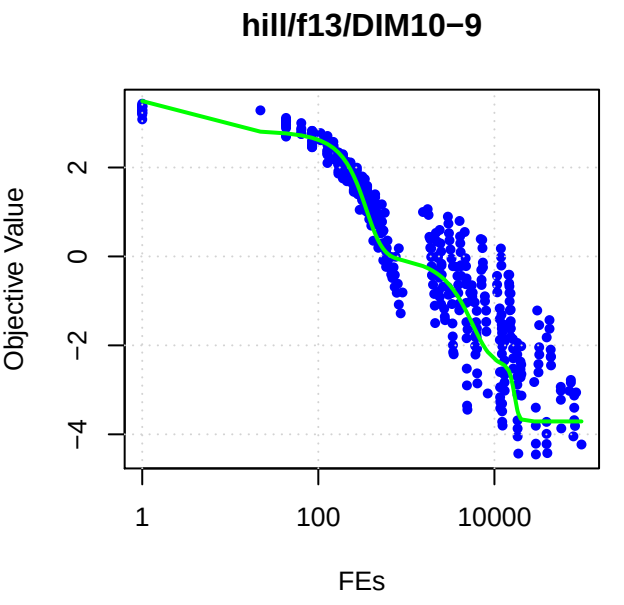
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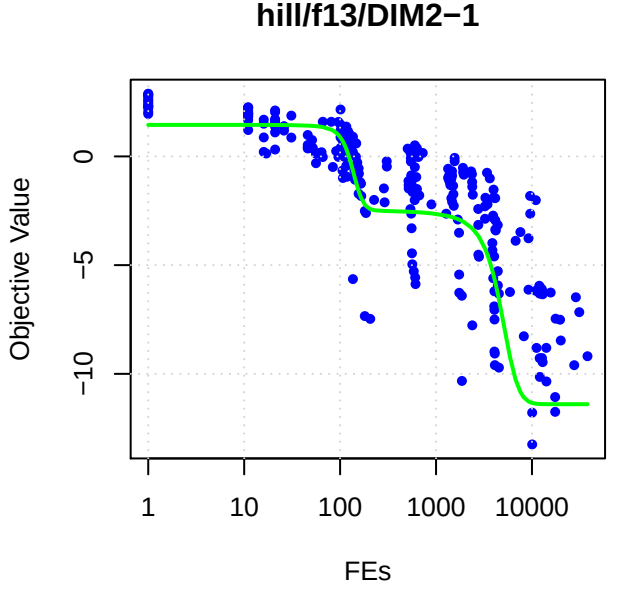
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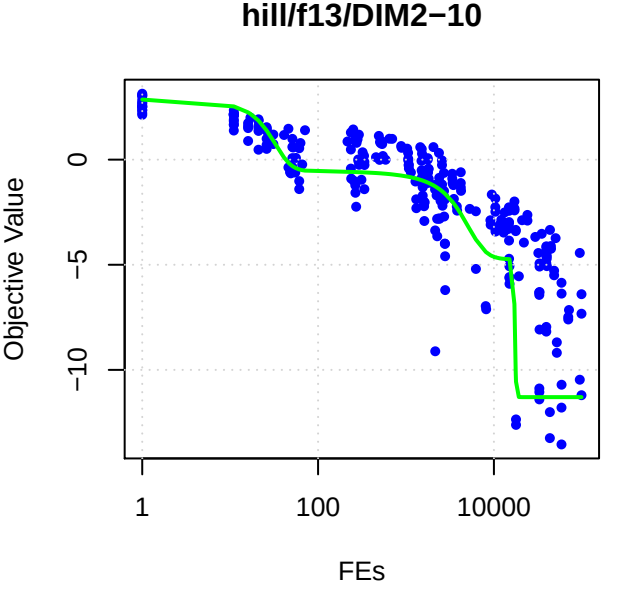
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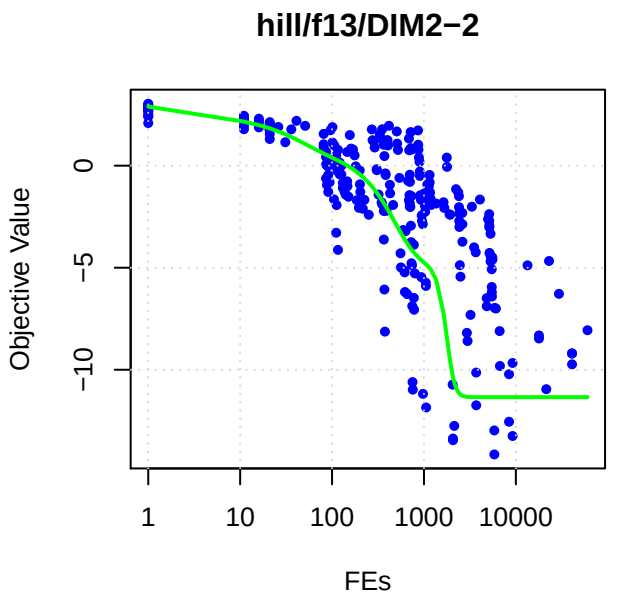
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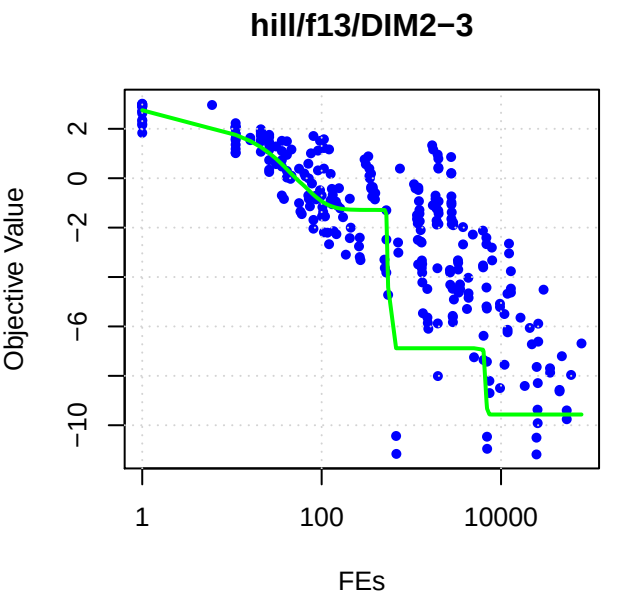
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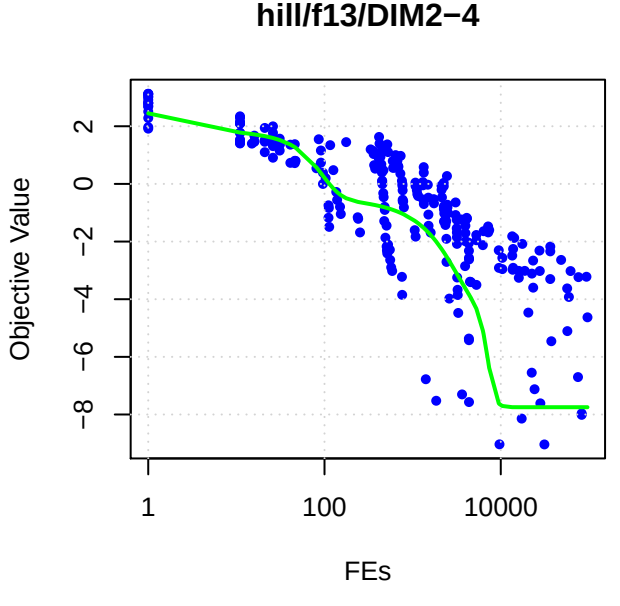
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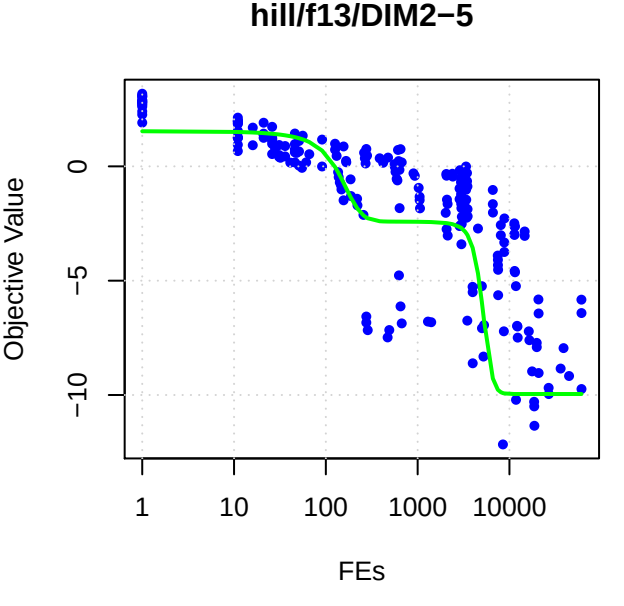
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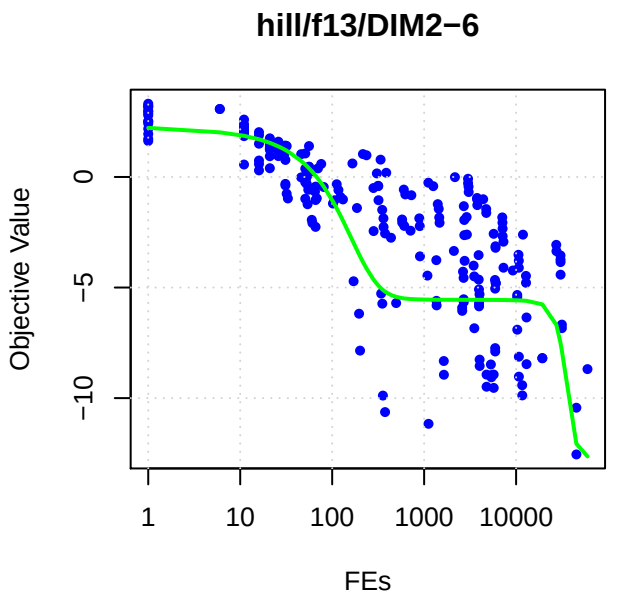
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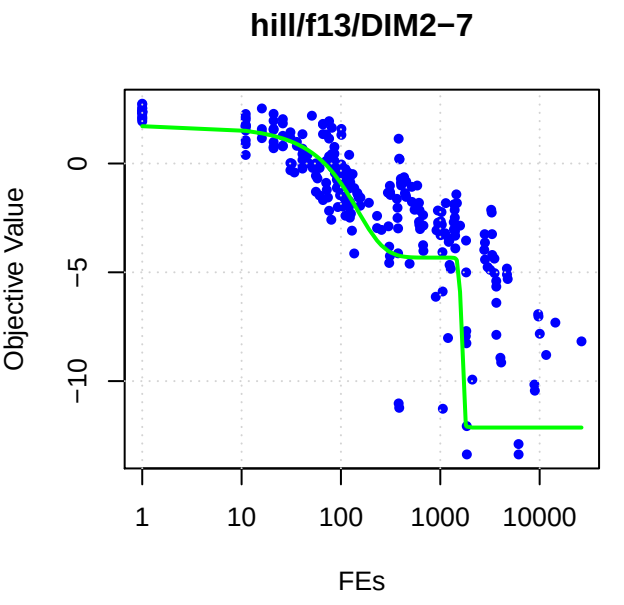
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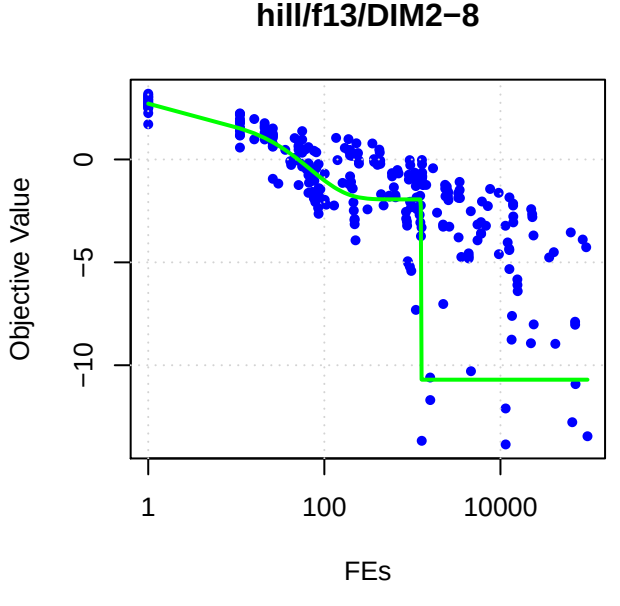
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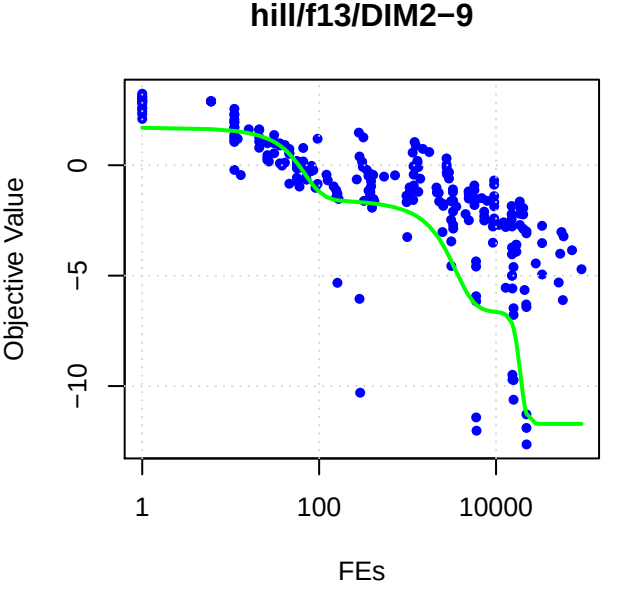
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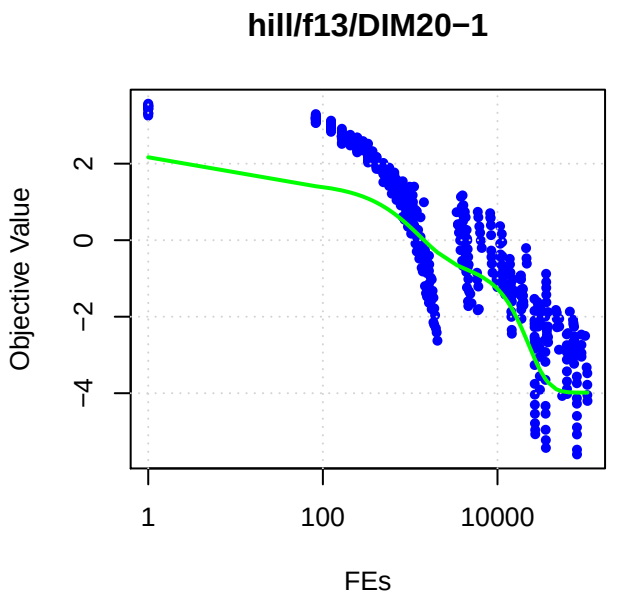
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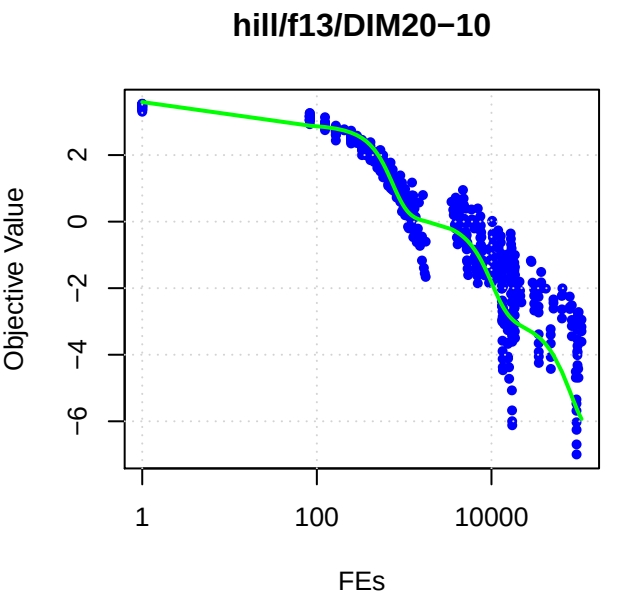
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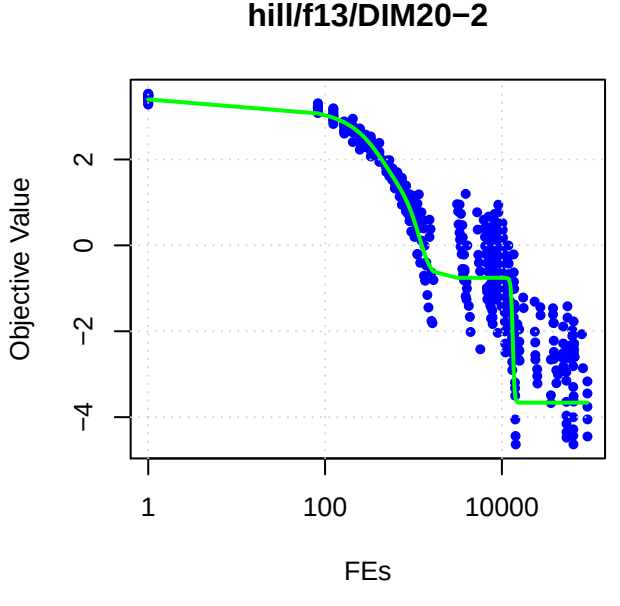
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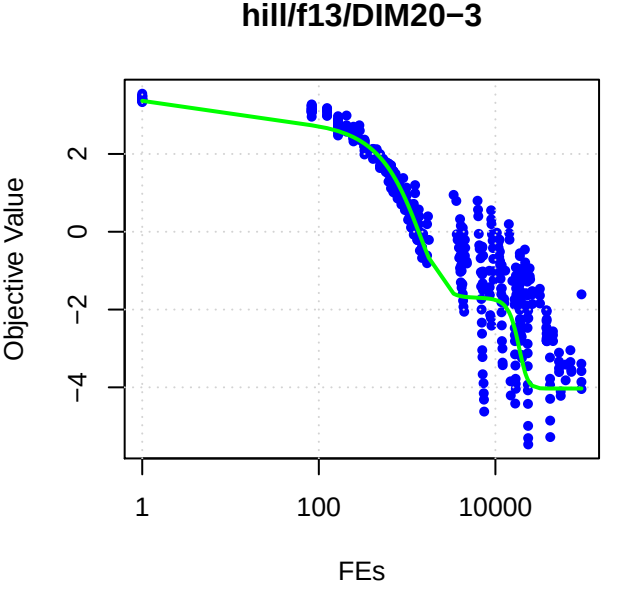
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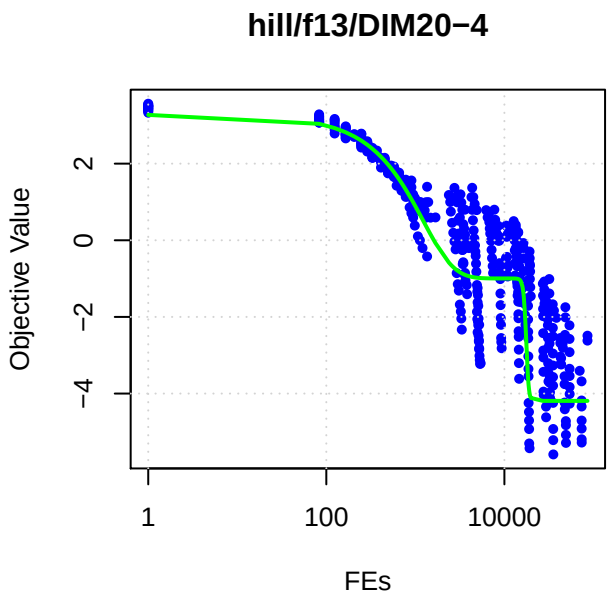
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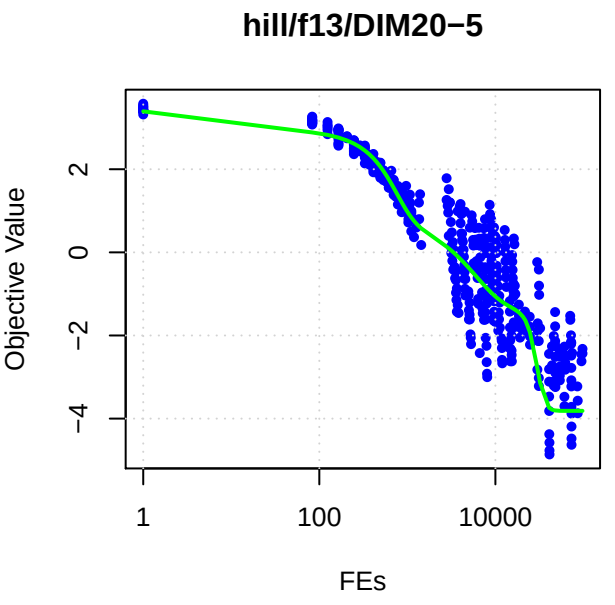
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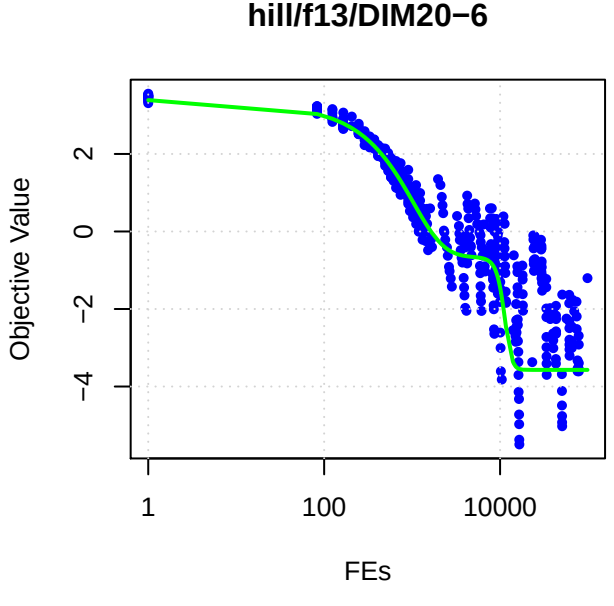
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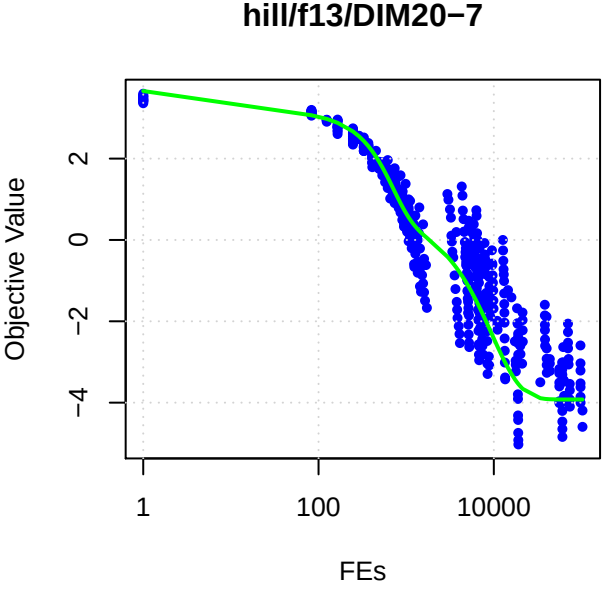
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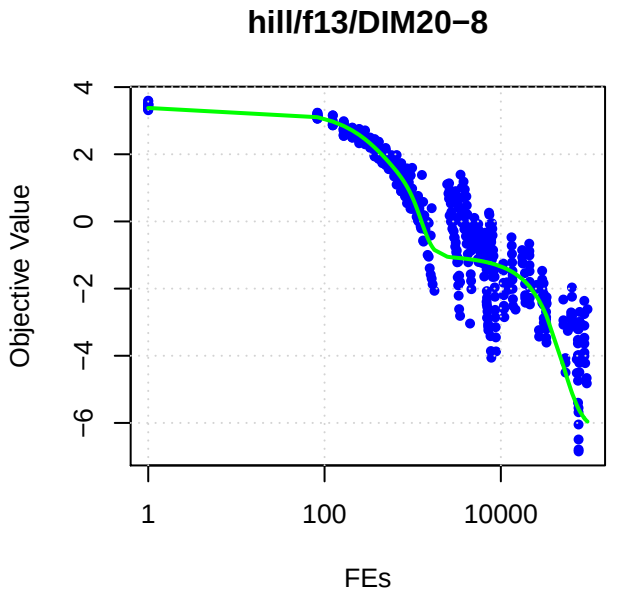
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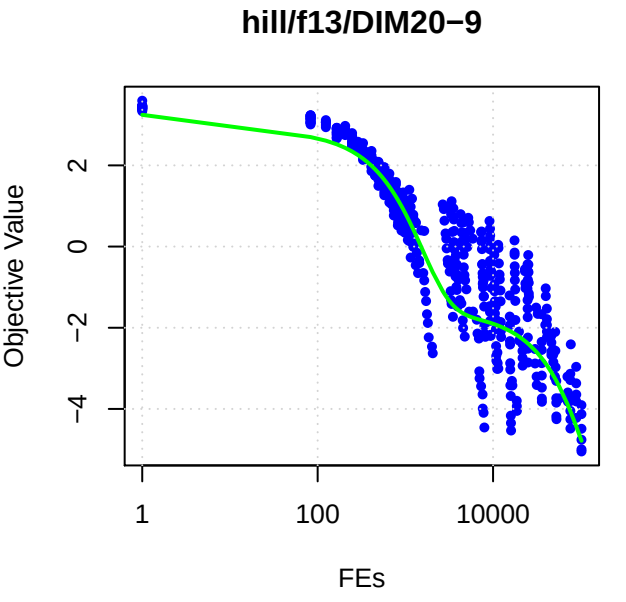
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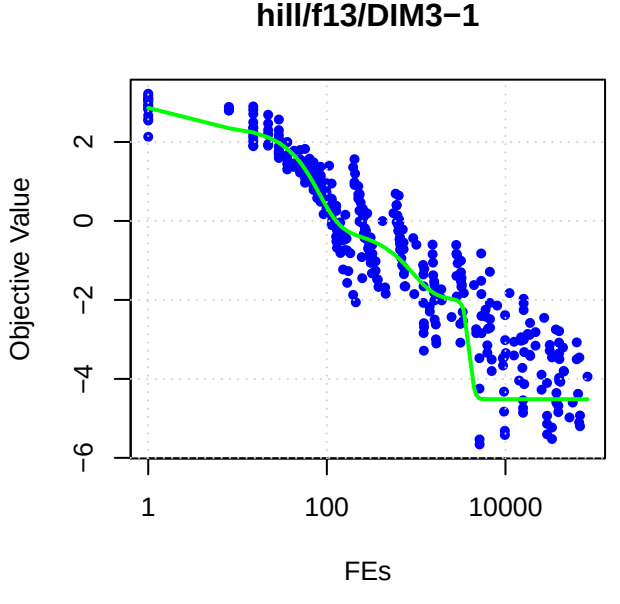
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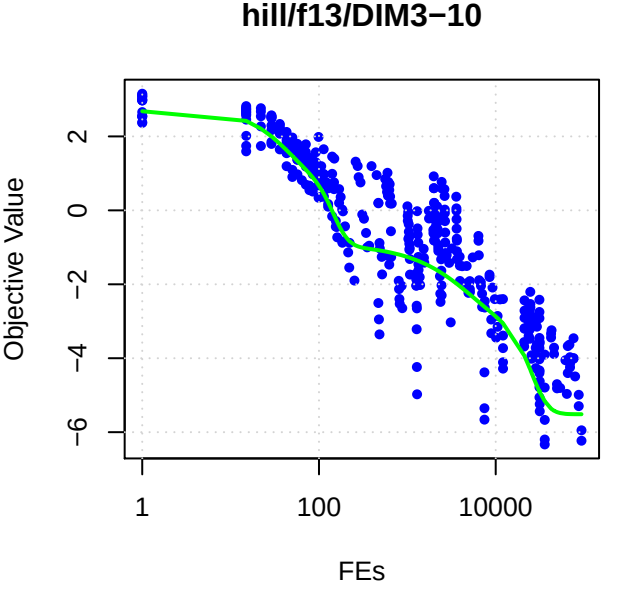
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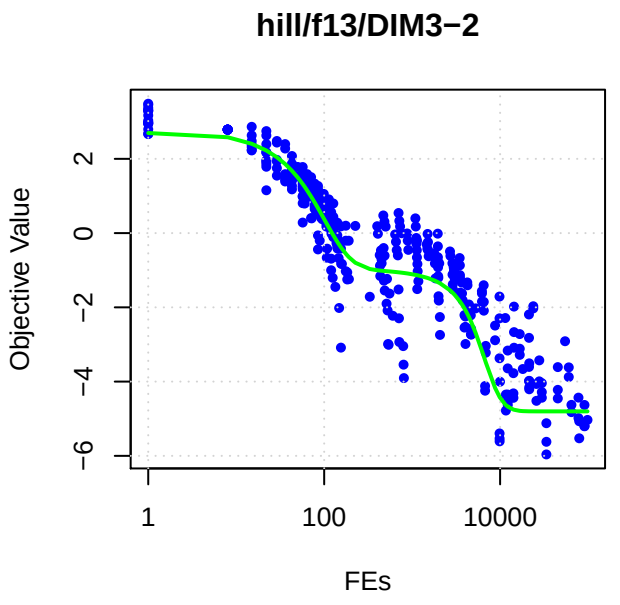
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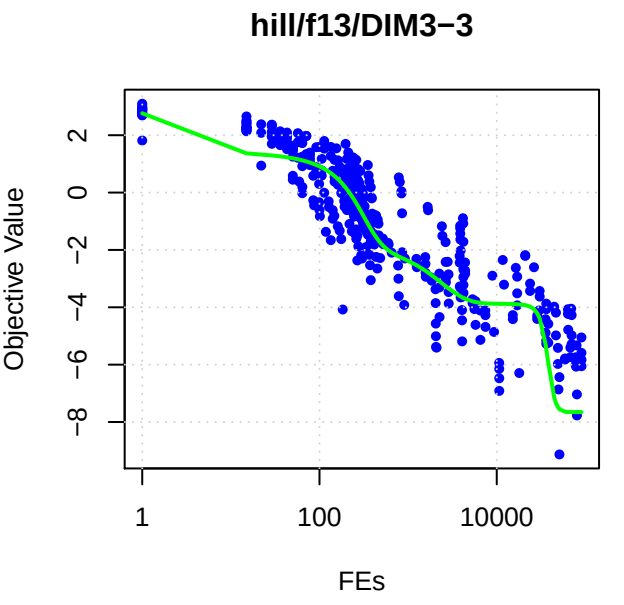
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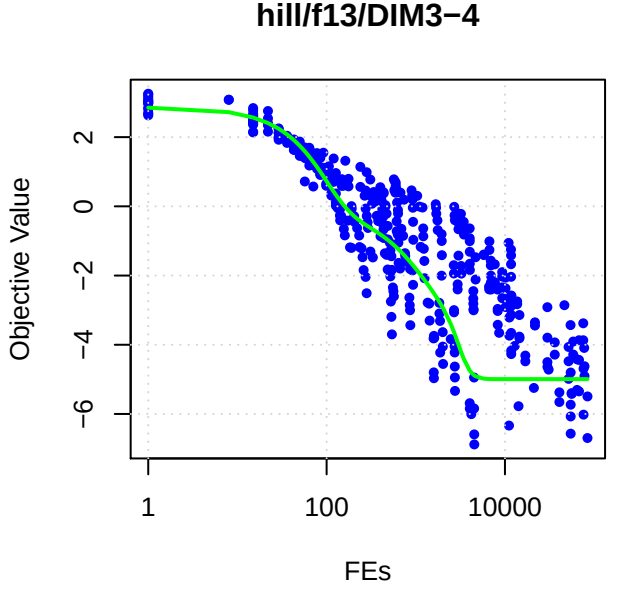
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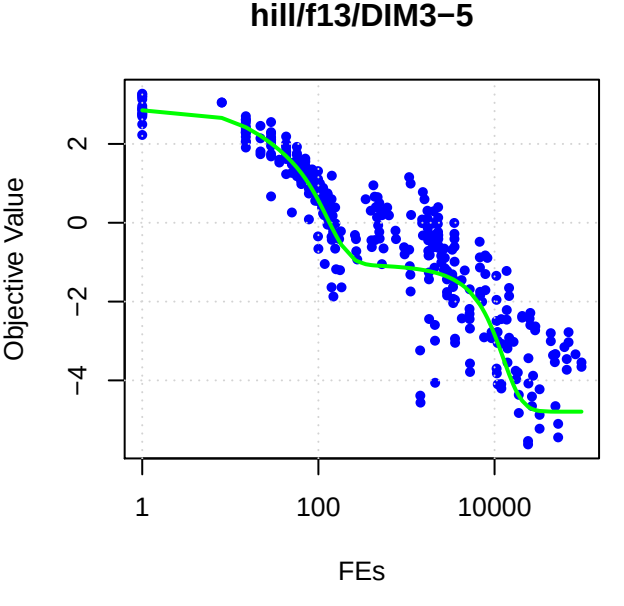
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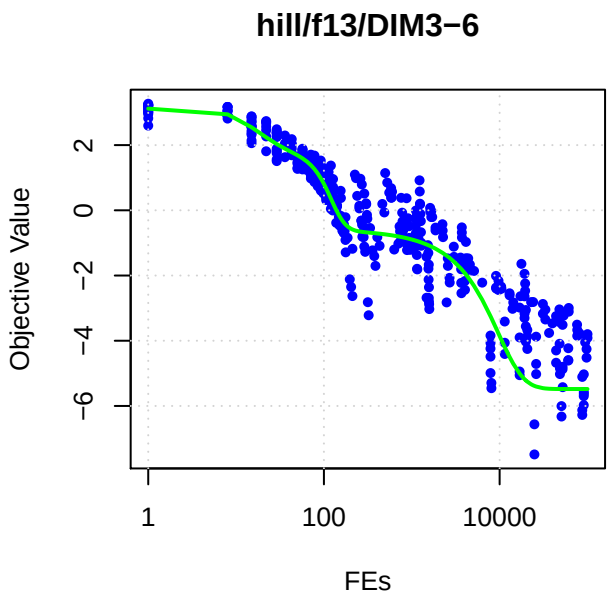
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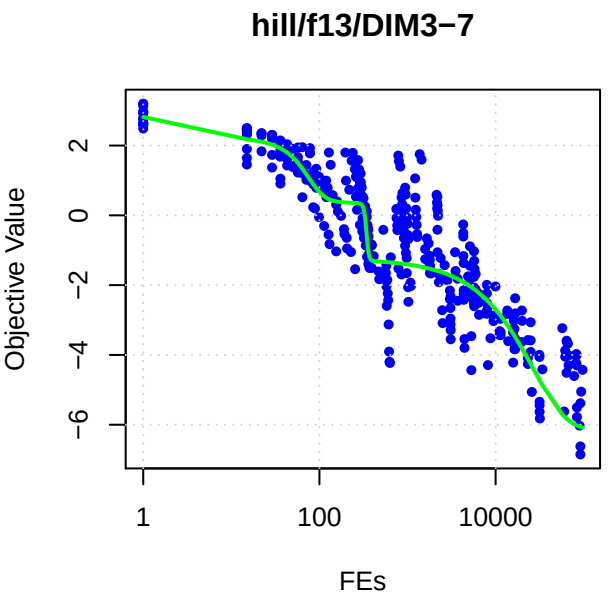
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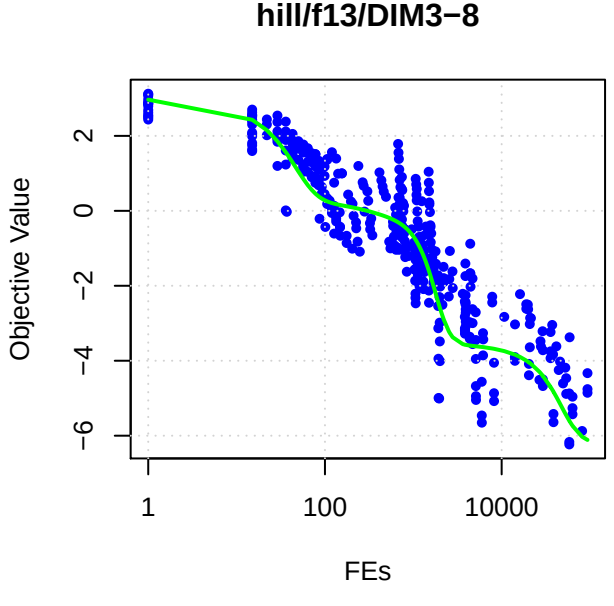
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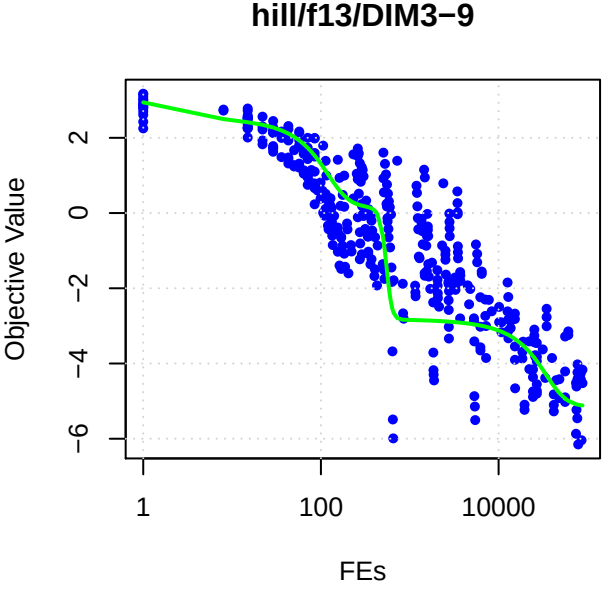
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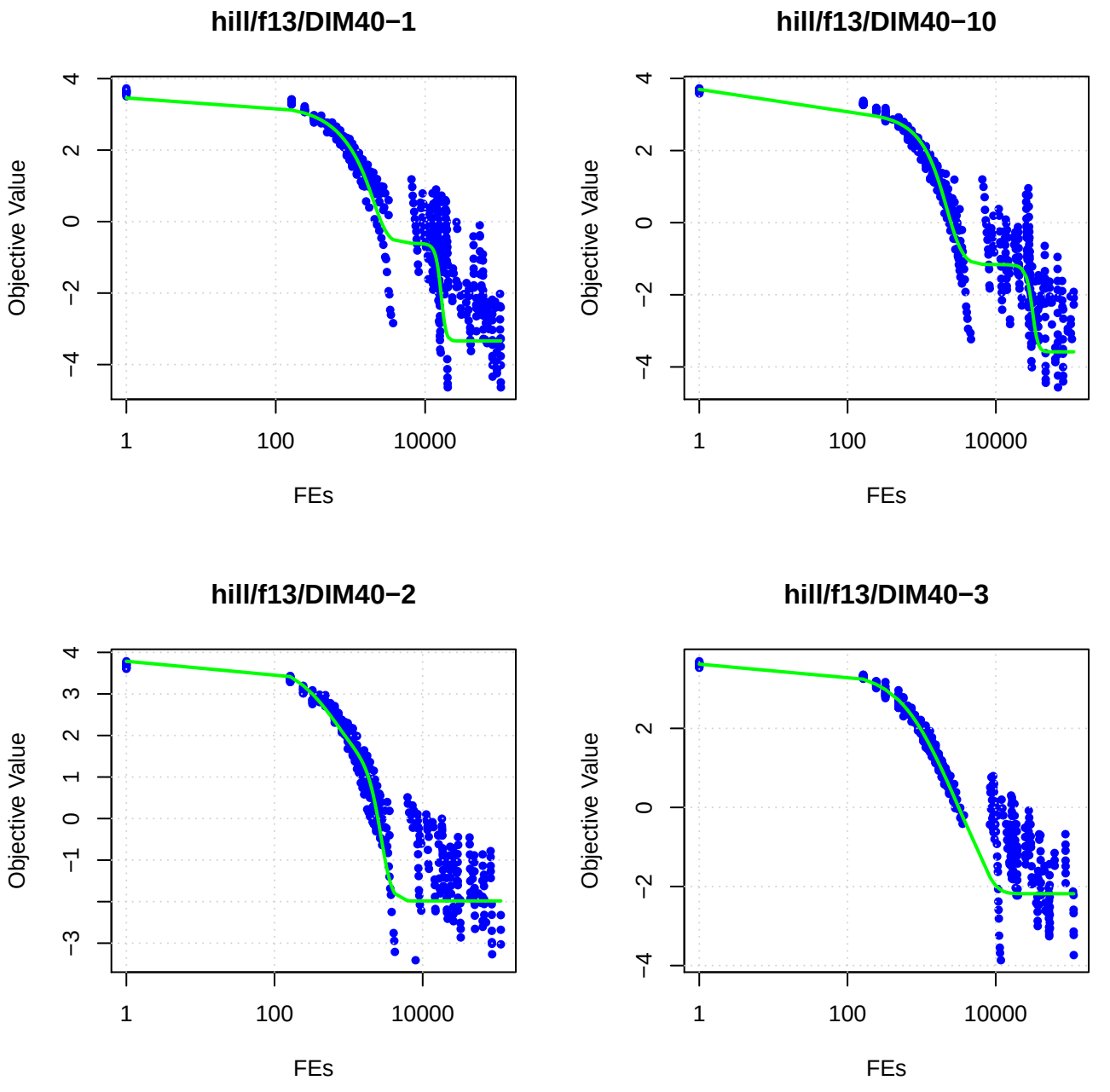
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hill/f13/DIM40−2
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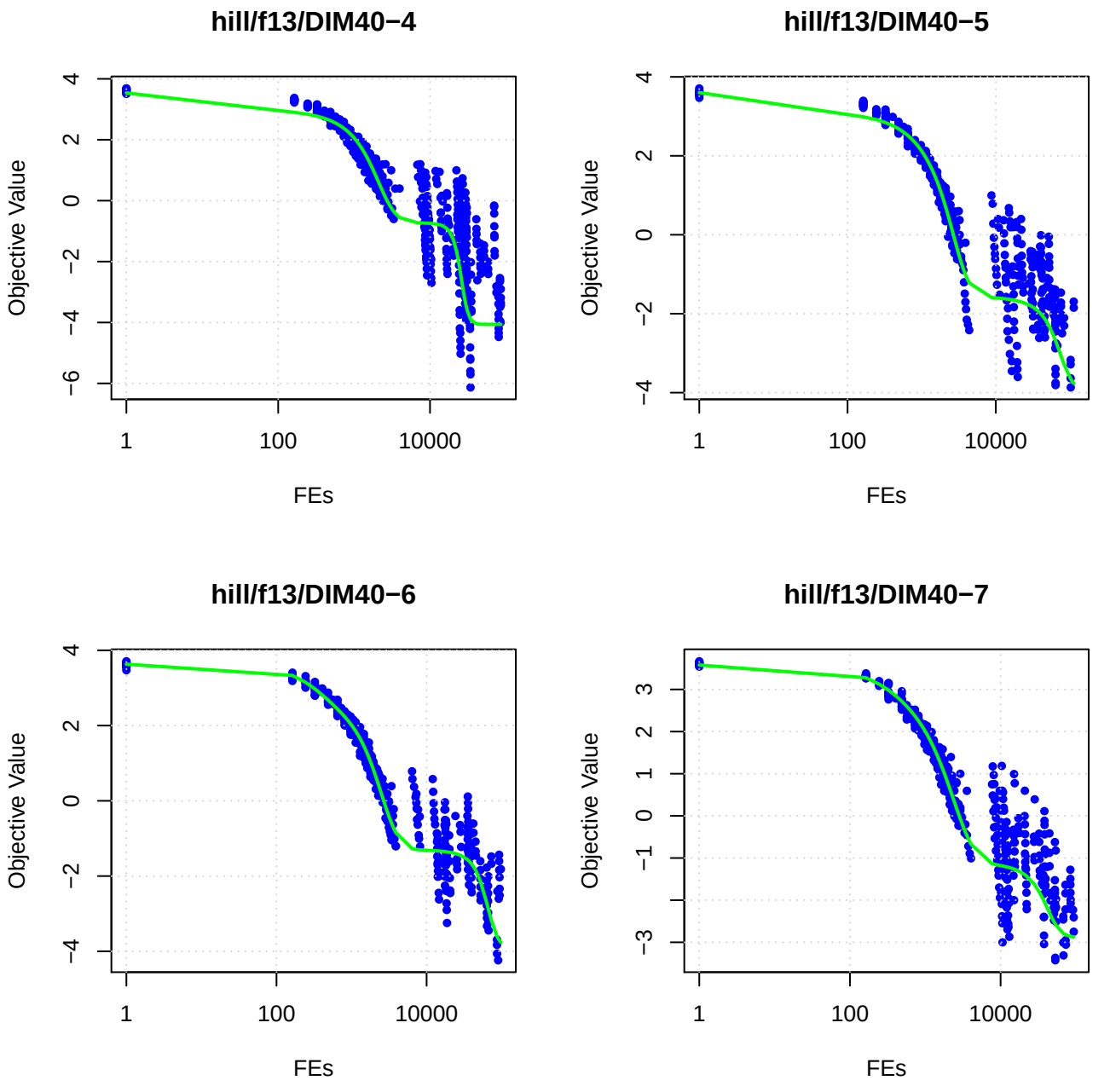
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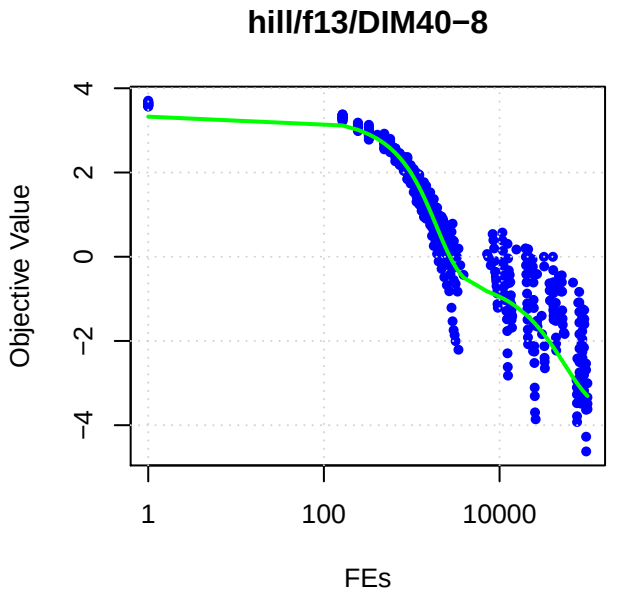
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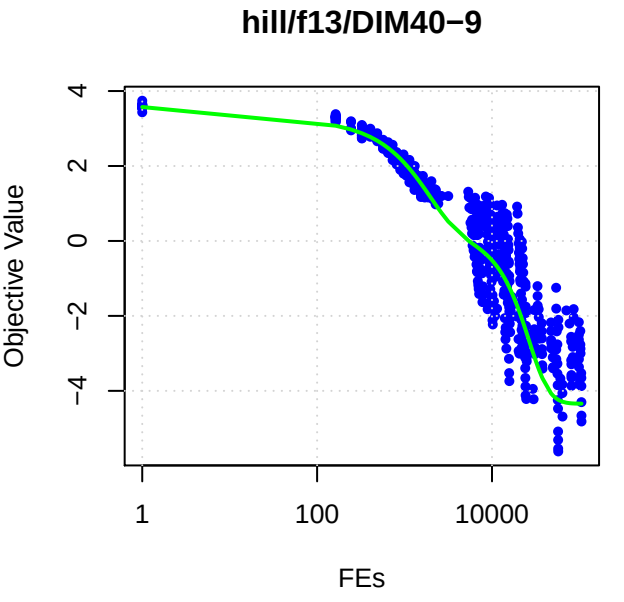
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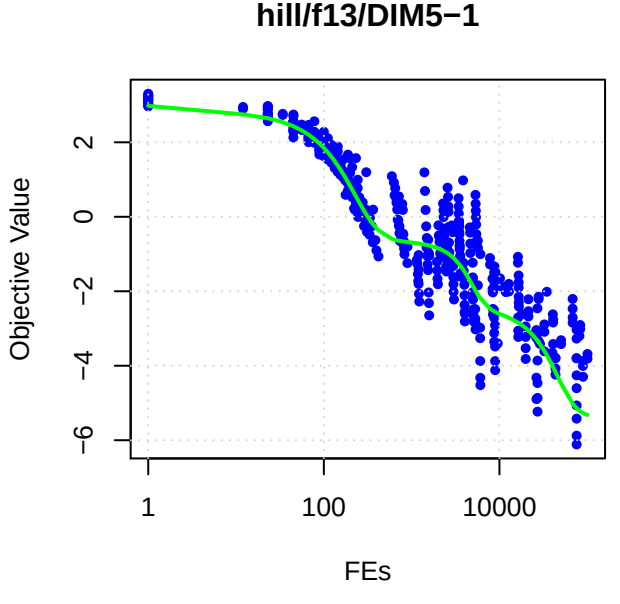
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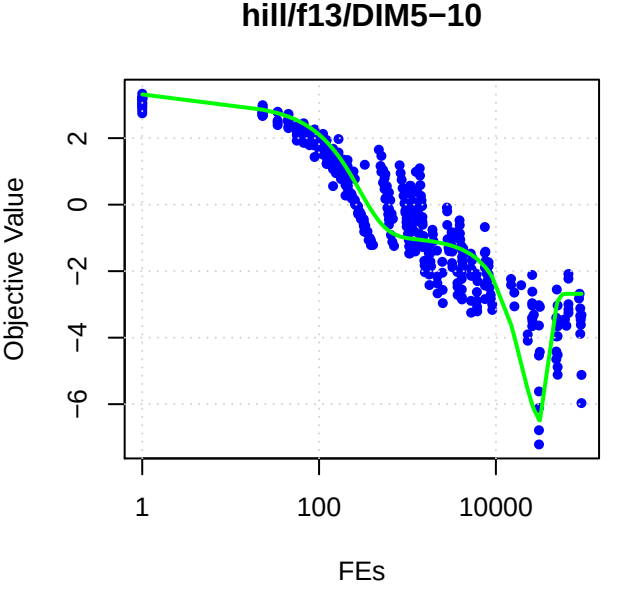
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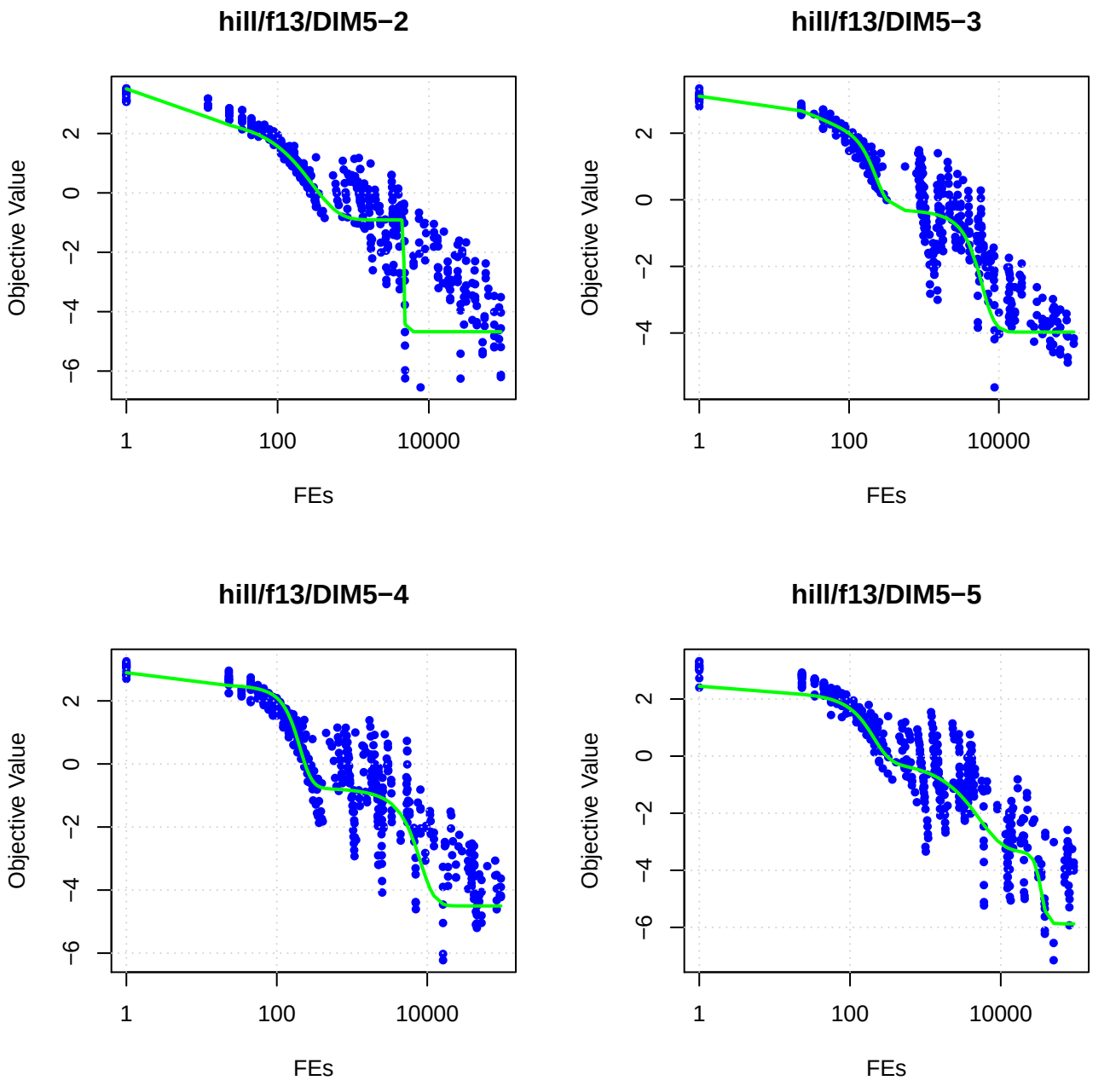
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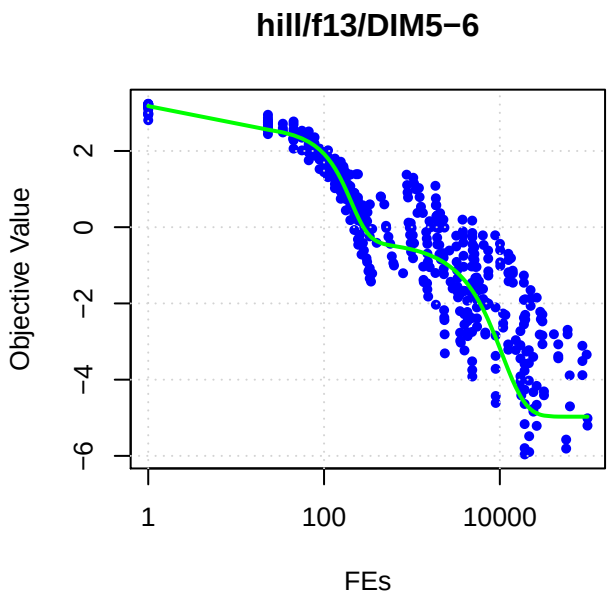
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FEs
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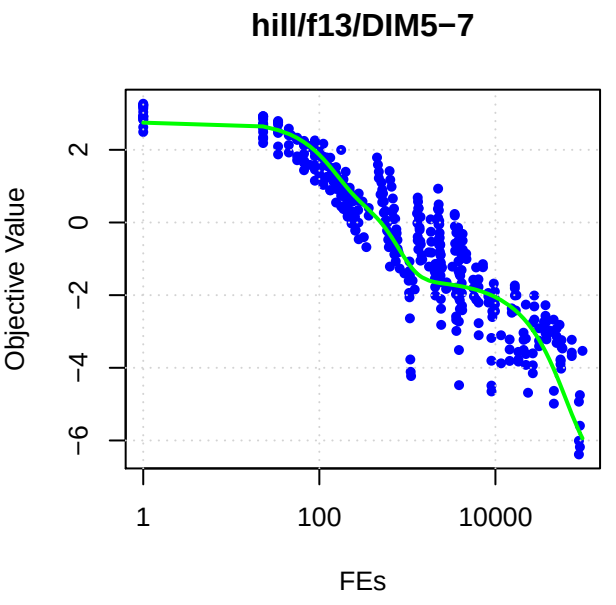
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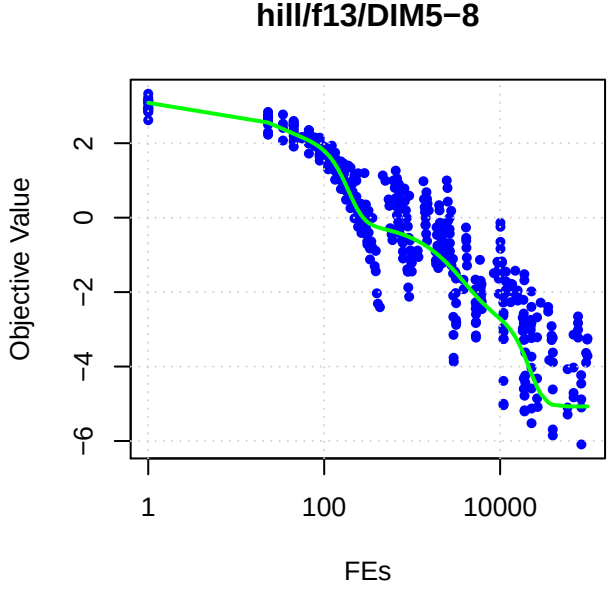
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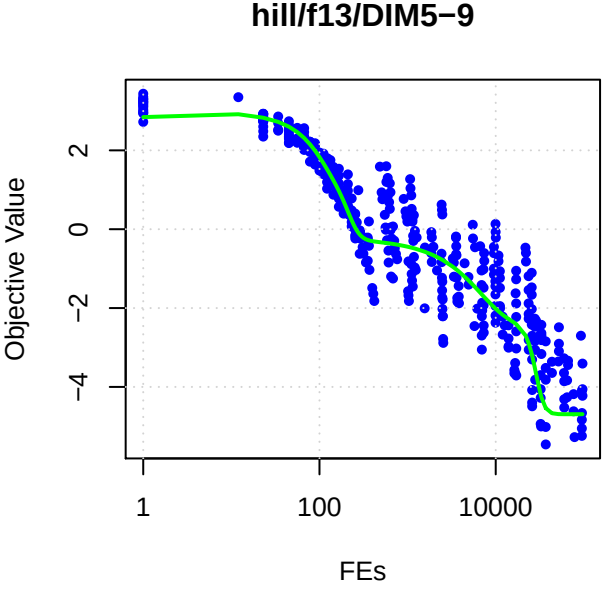
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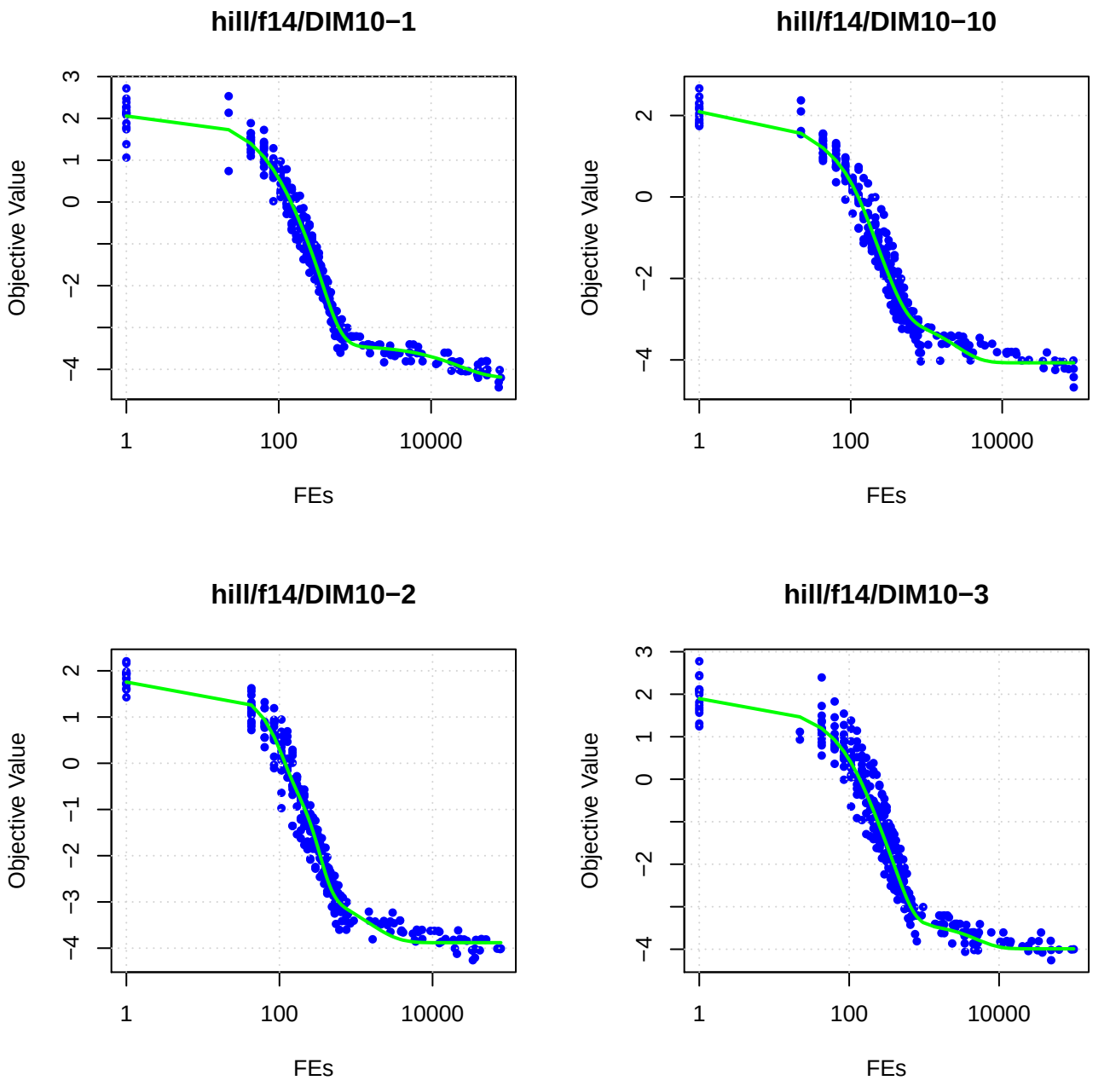
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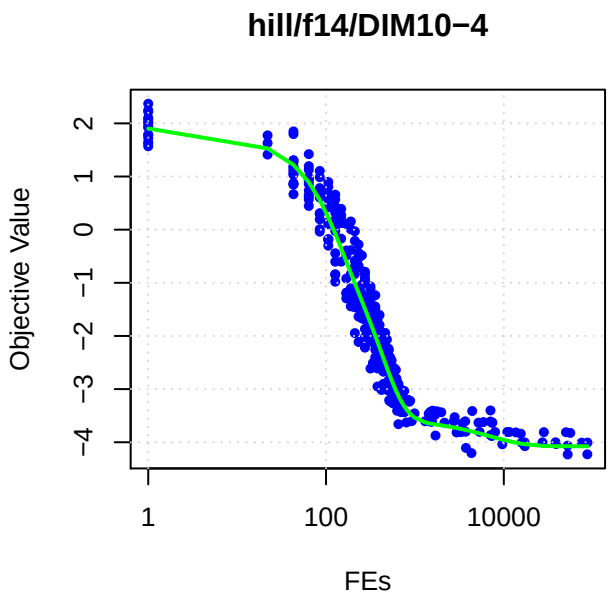
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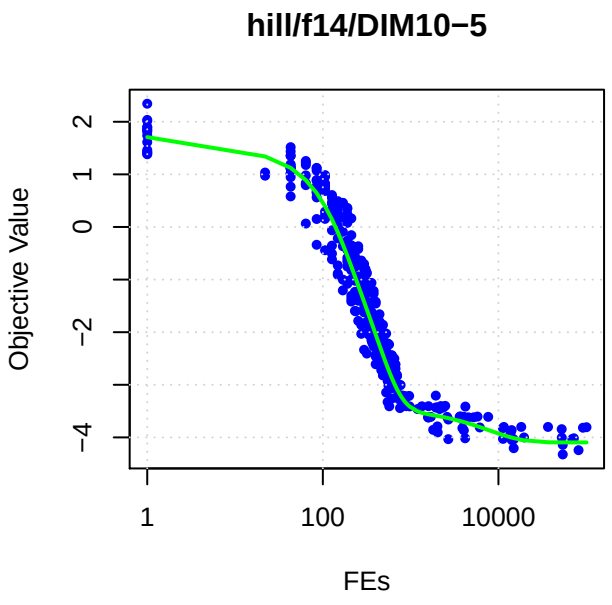
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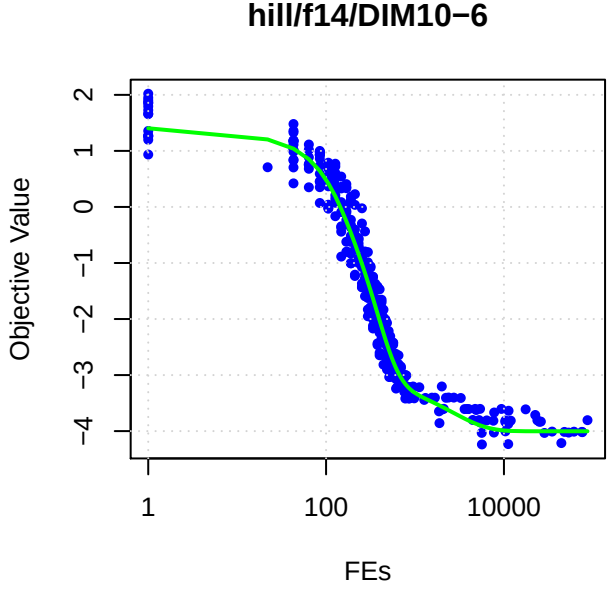
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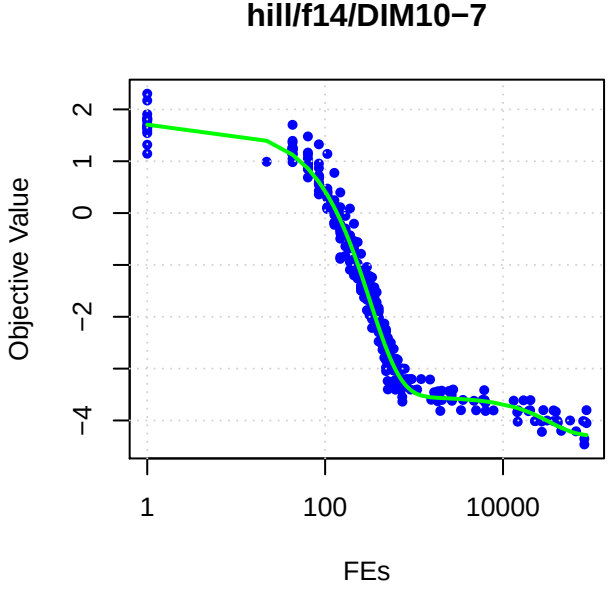
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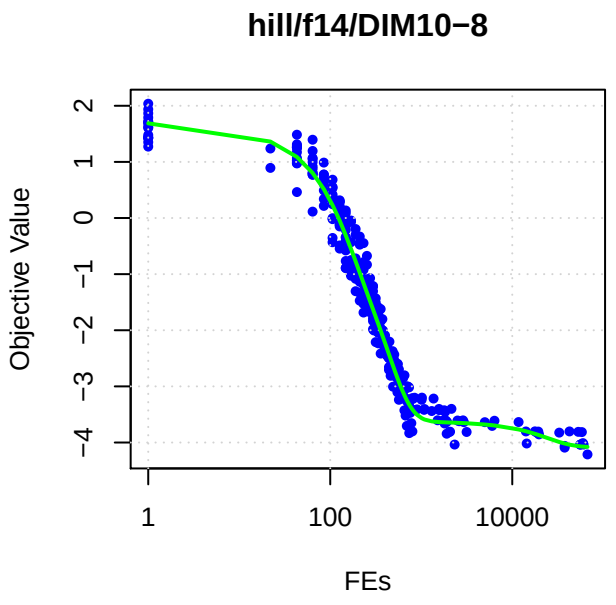
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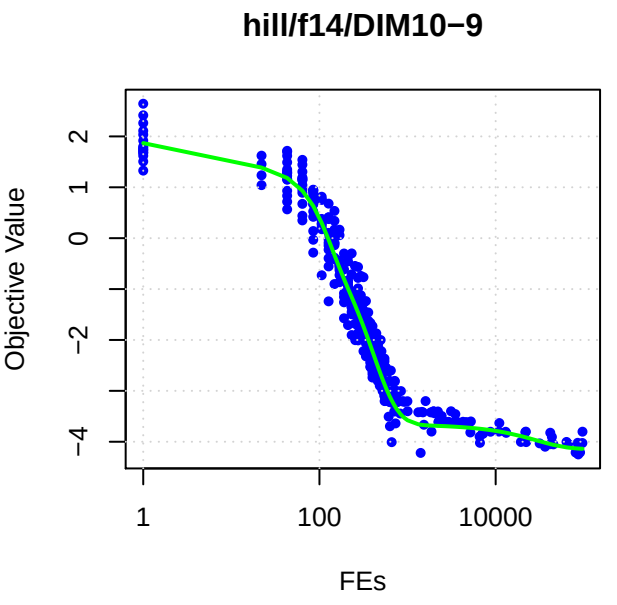
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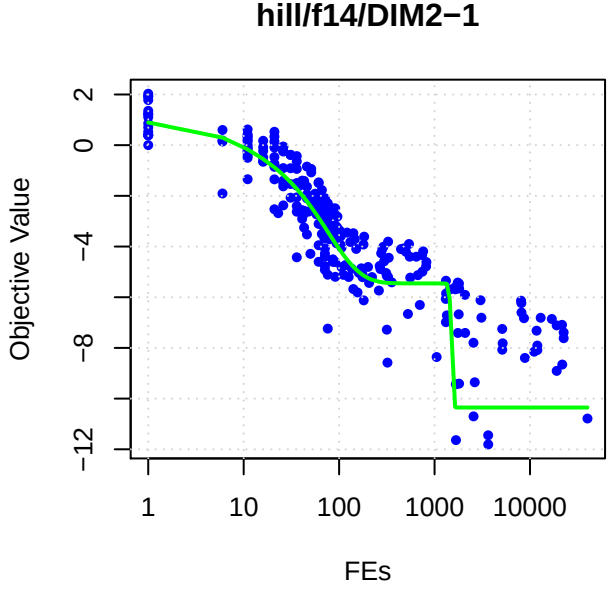
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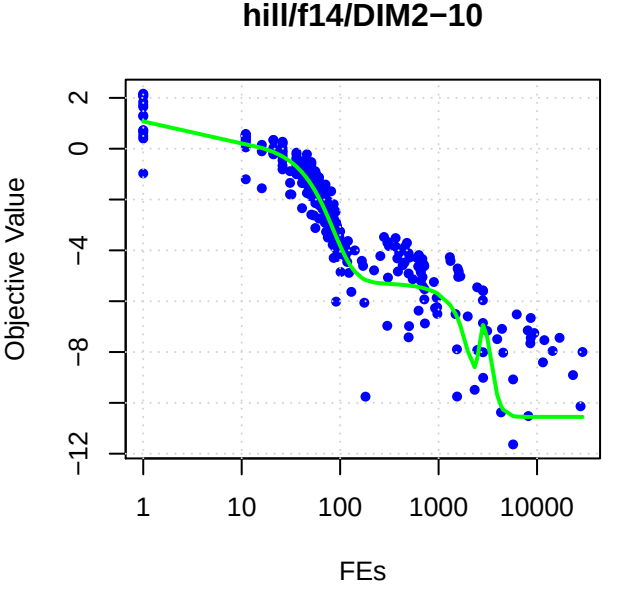
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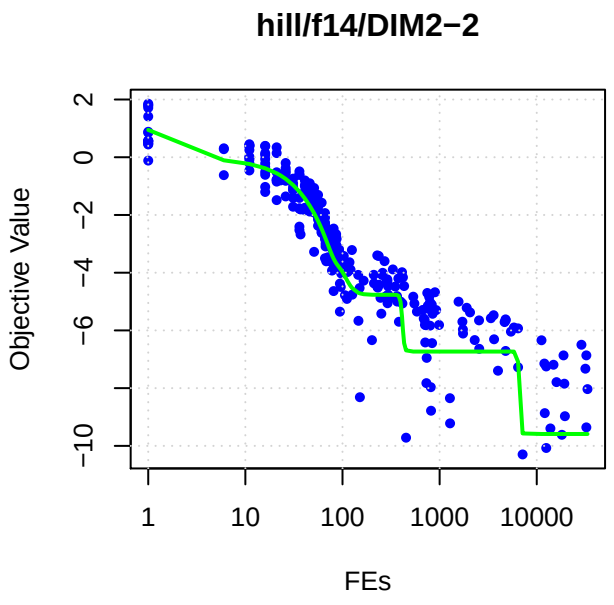
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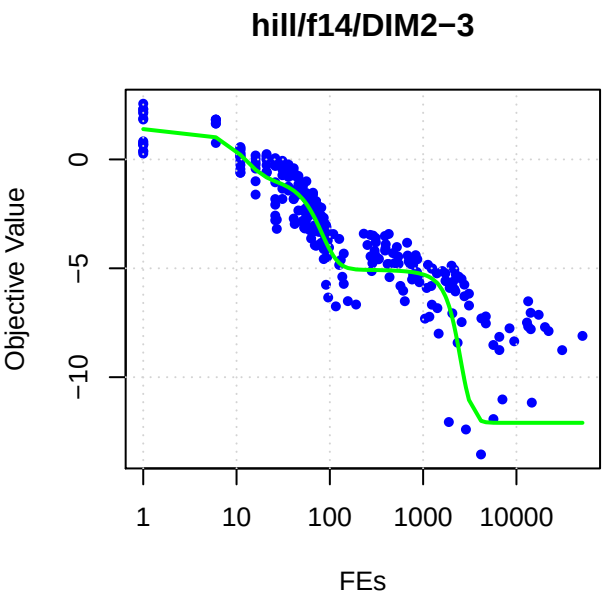
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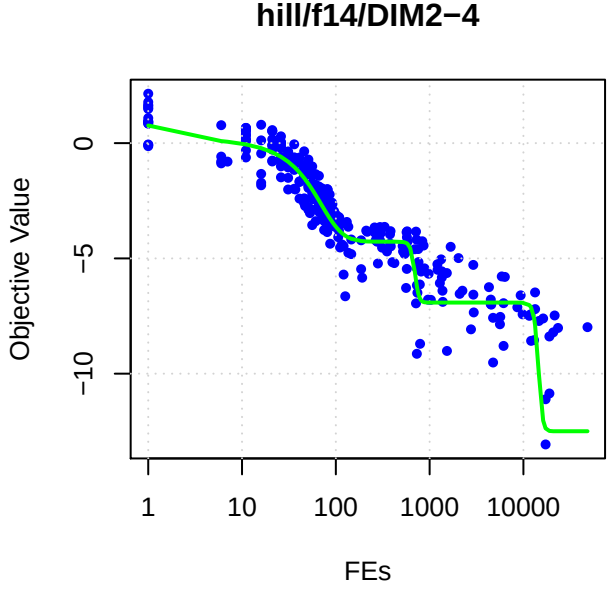
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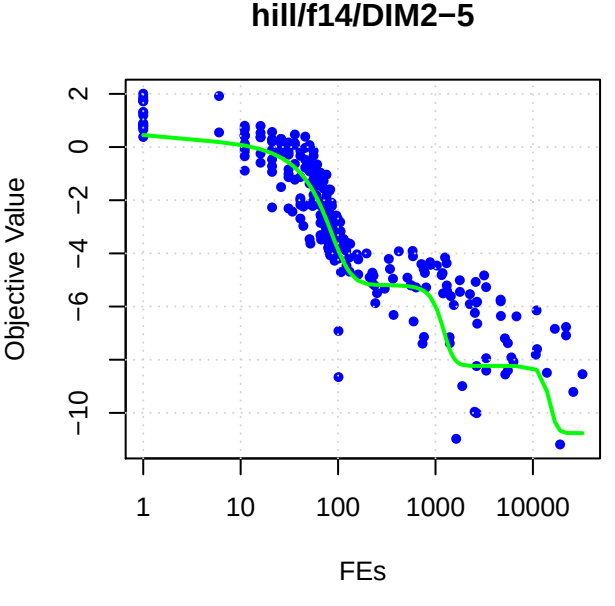
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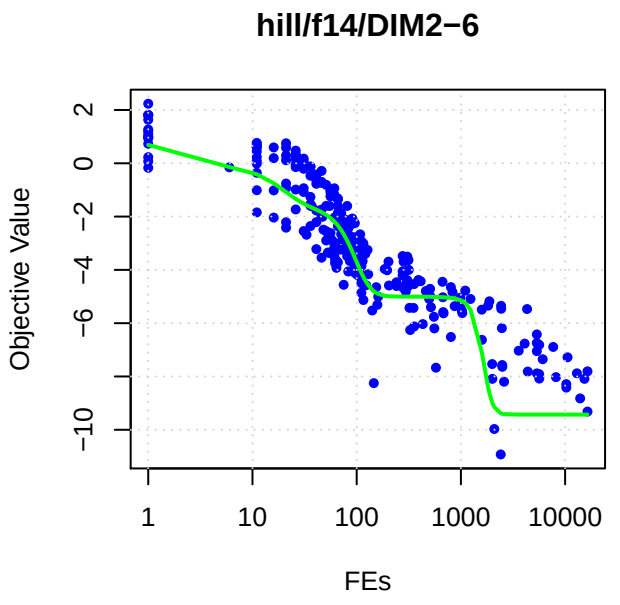
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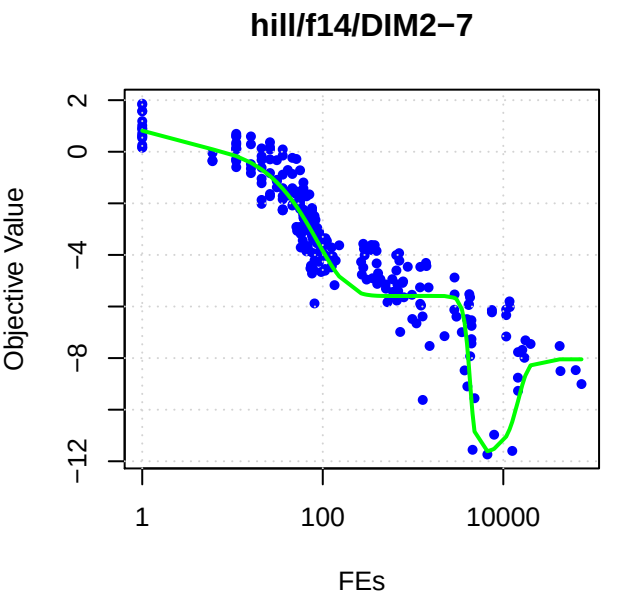
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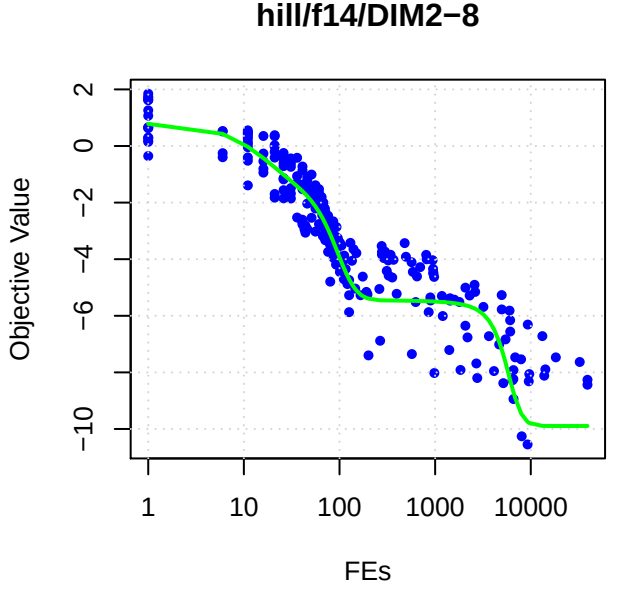
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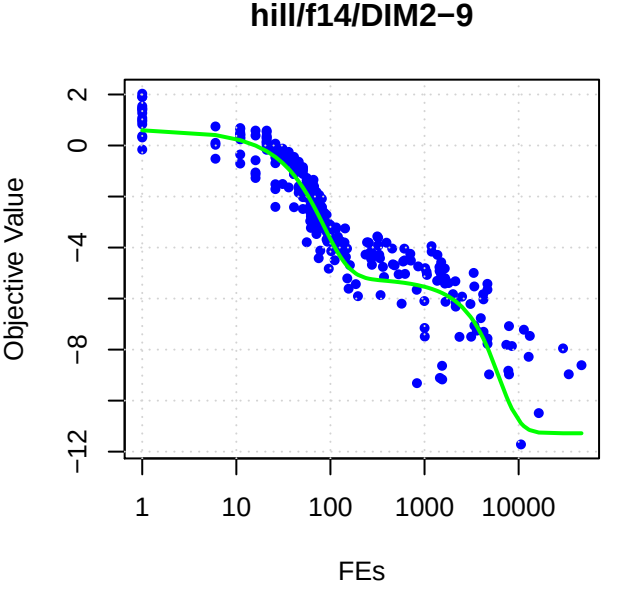
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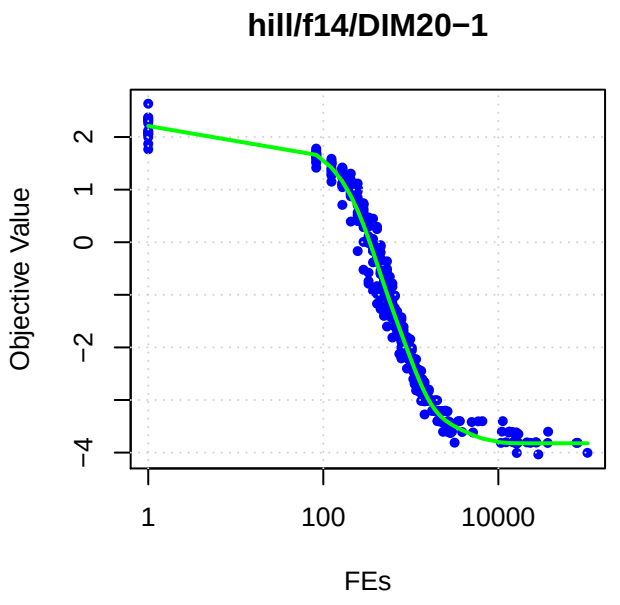
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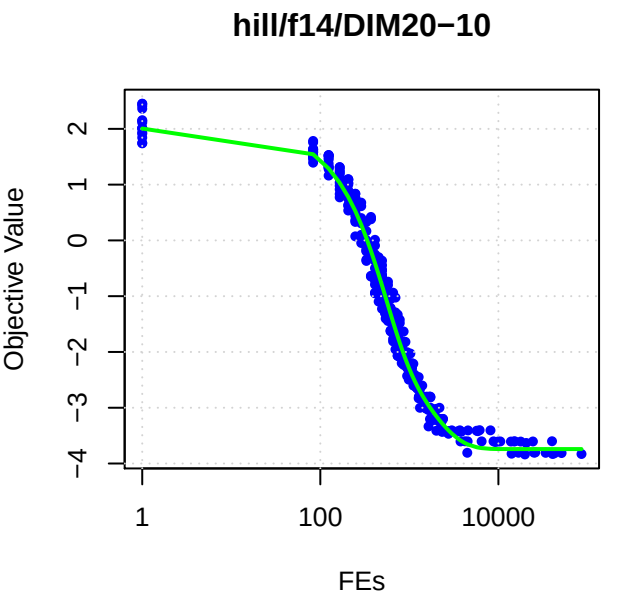
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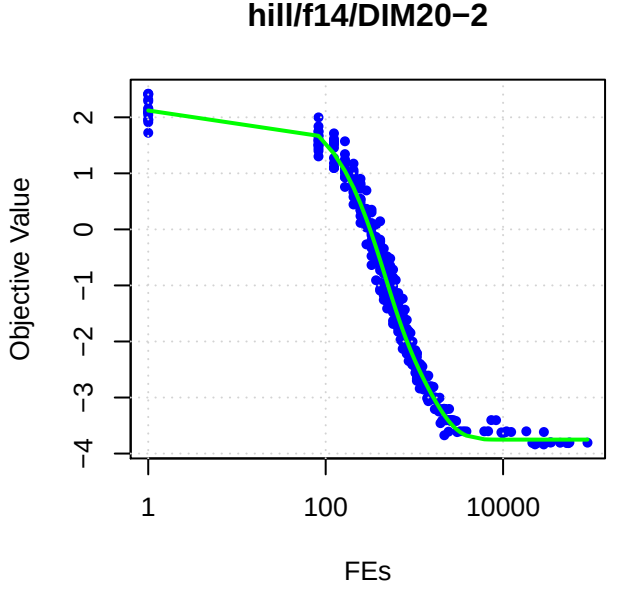
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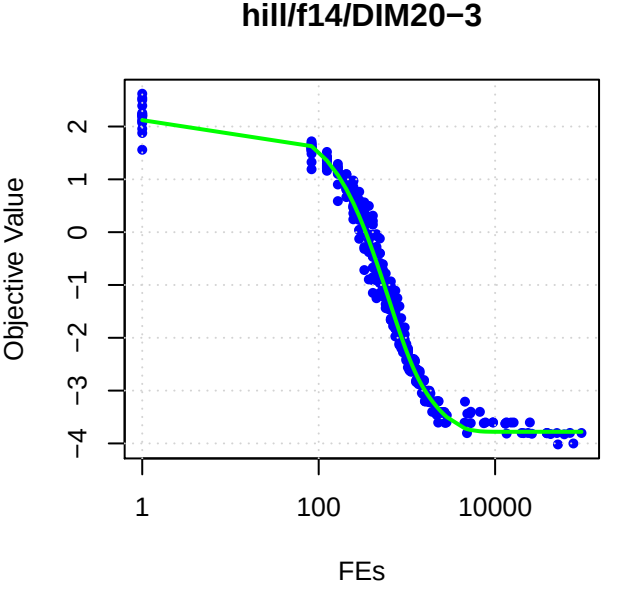
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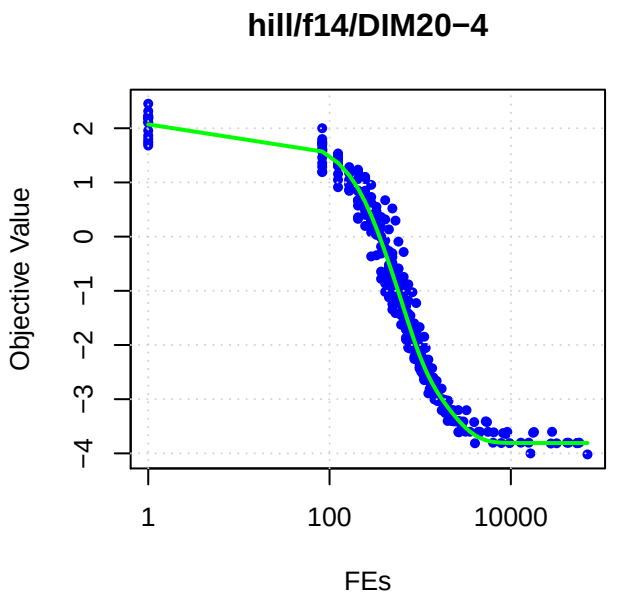
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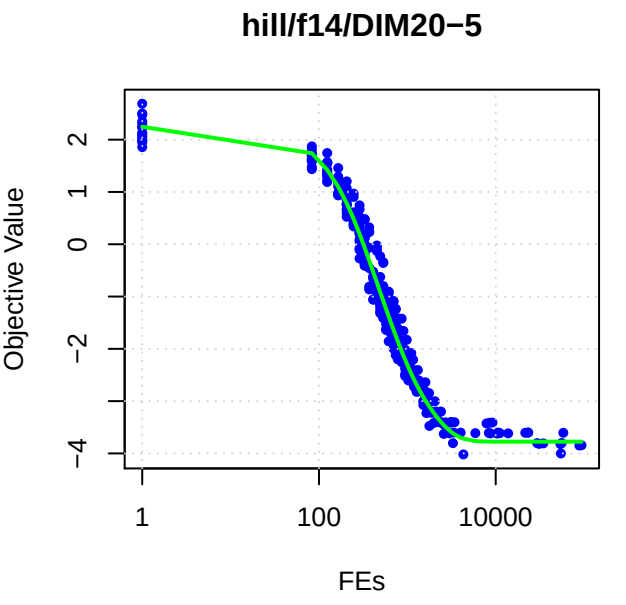
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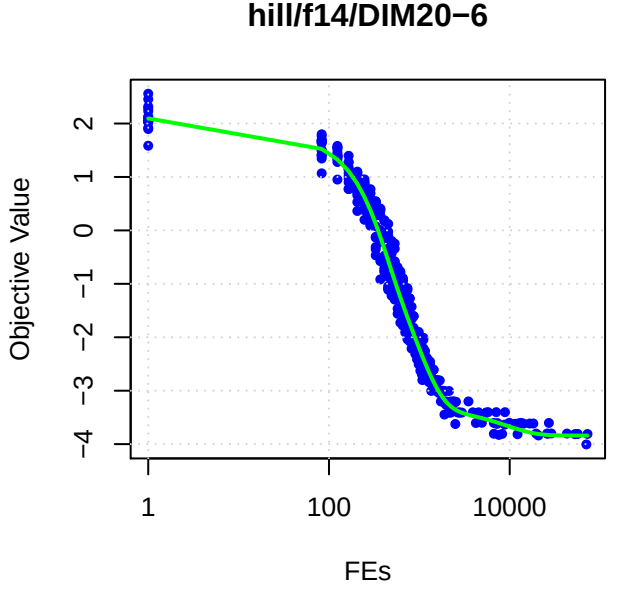
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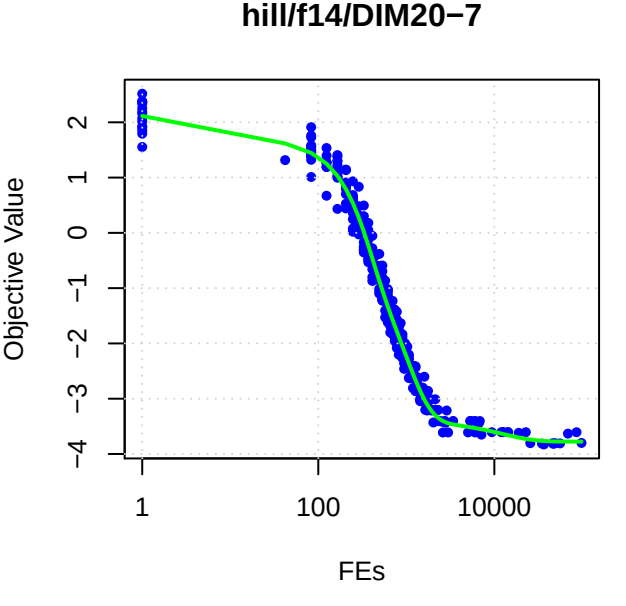
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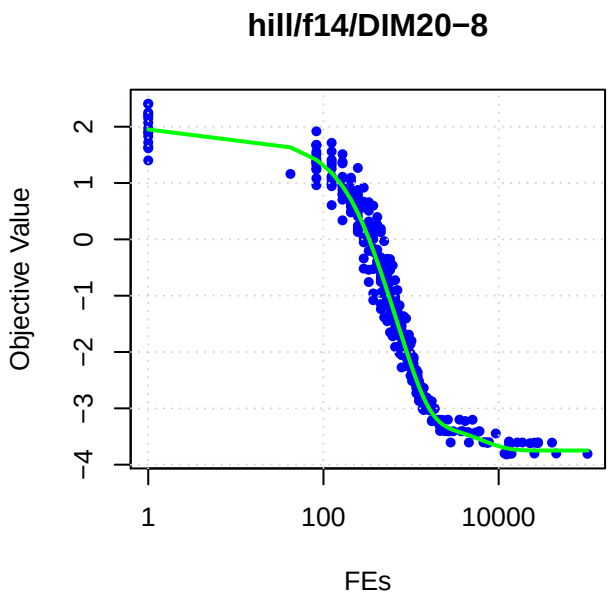
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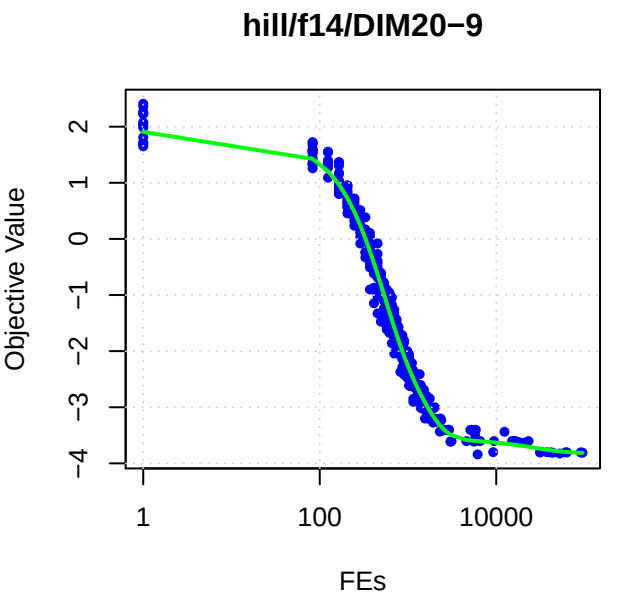
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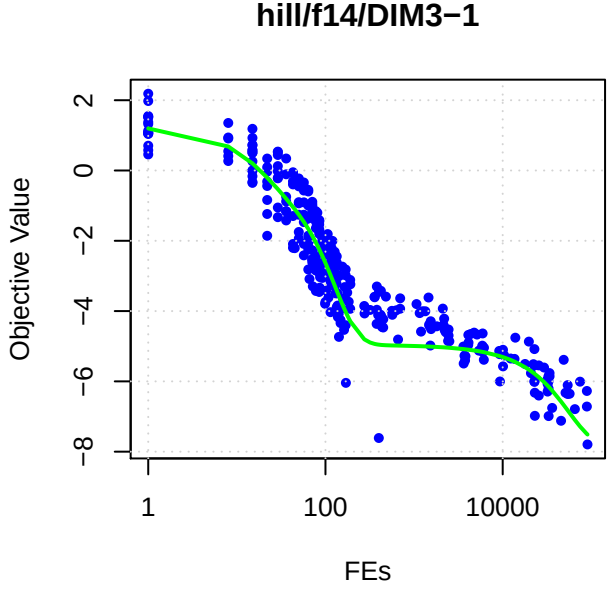
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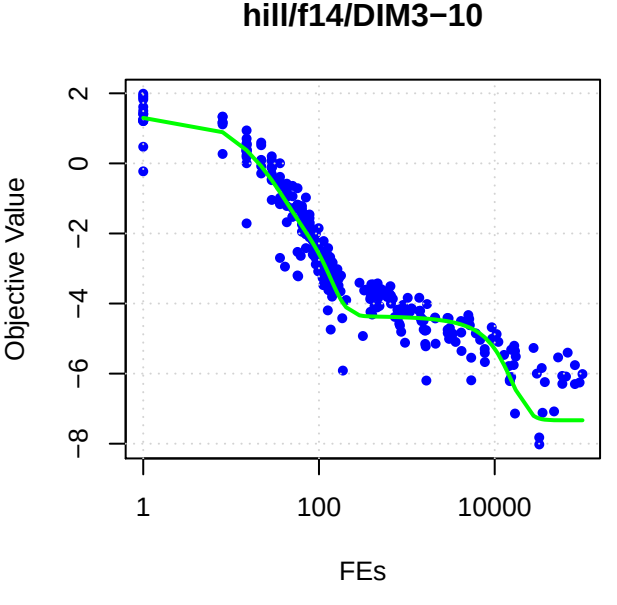
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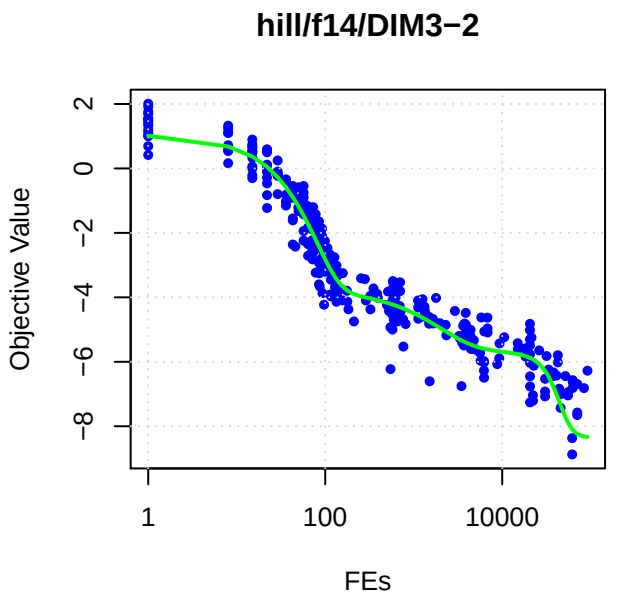
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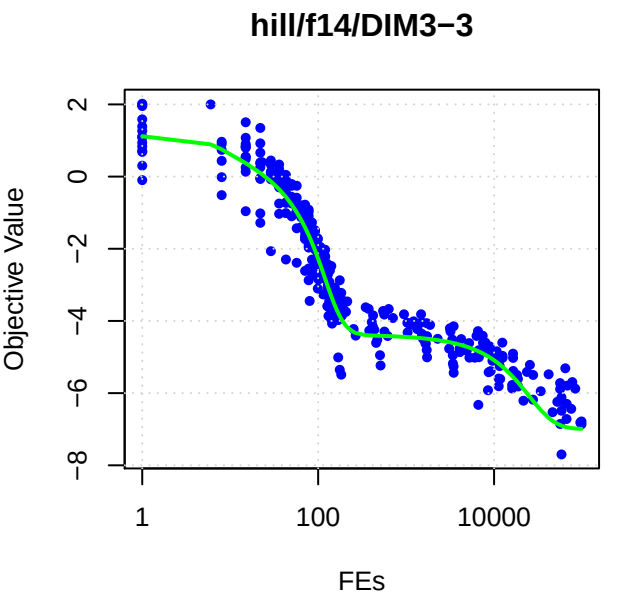
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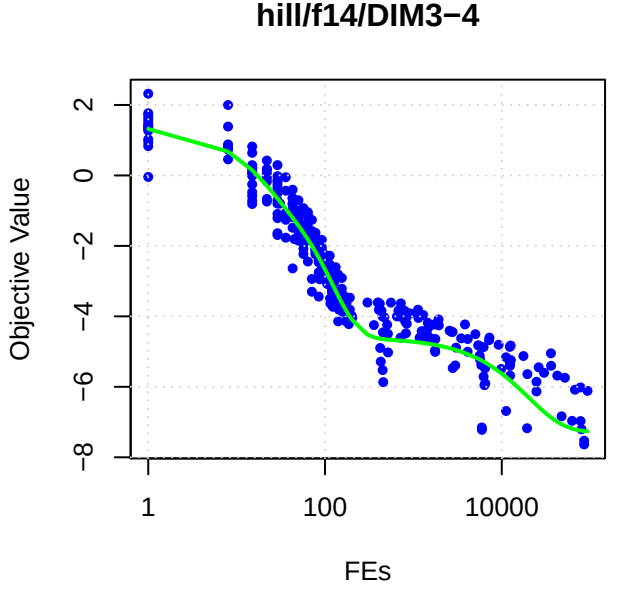
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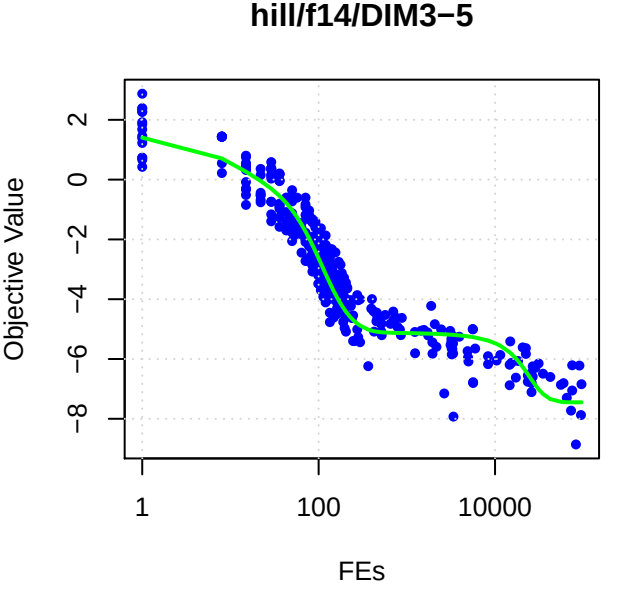
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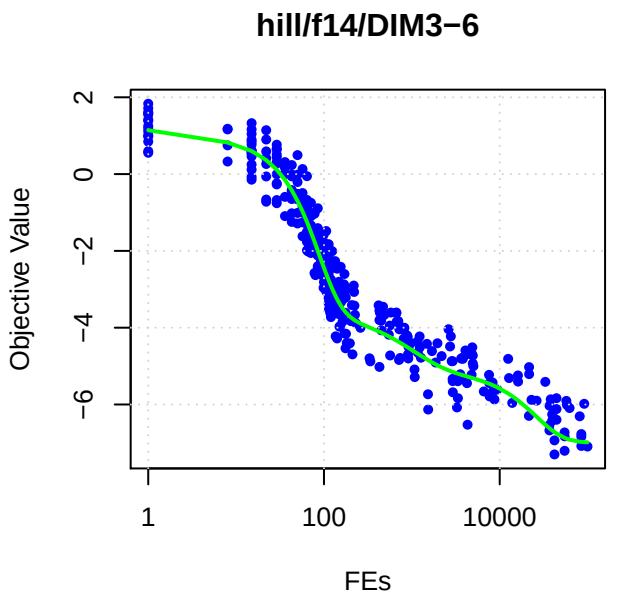
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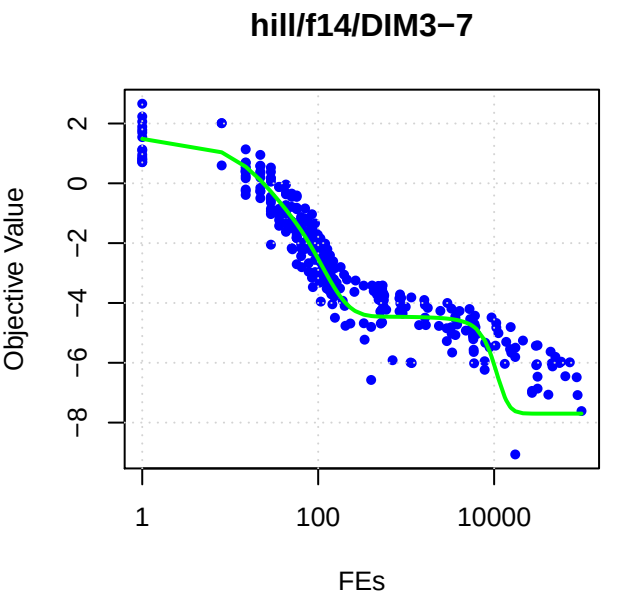
FEs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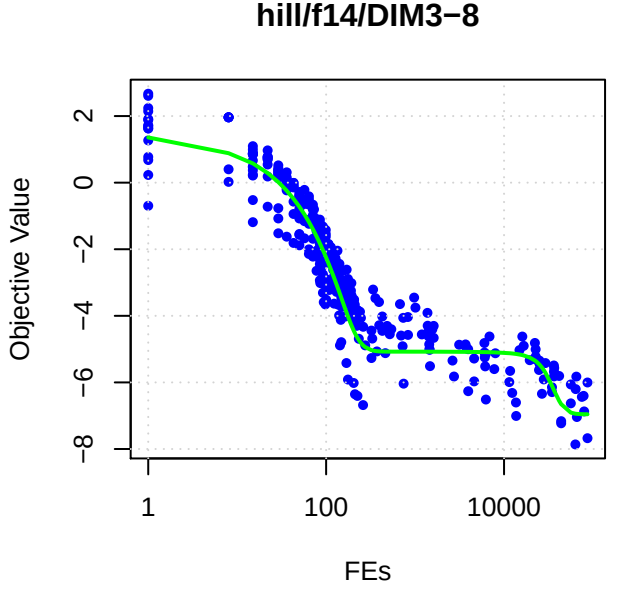
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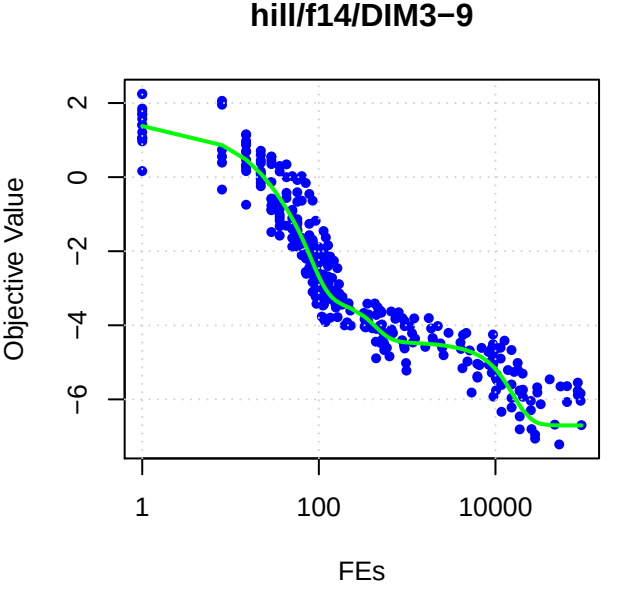
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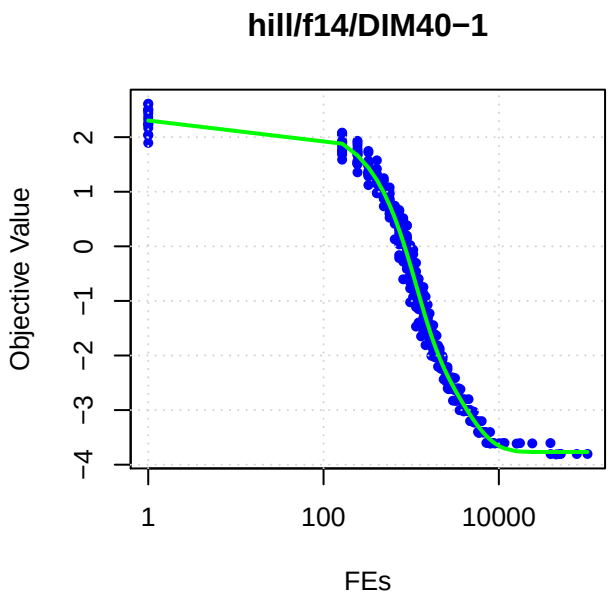
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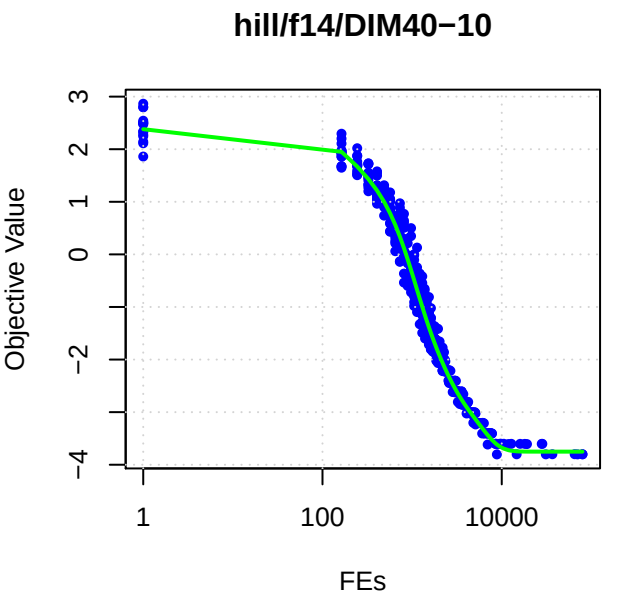
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Objective Value
FEs
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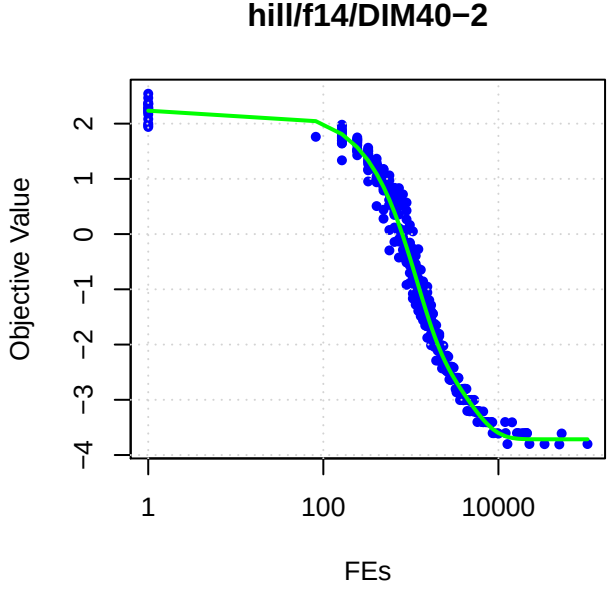
−4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Objective Value
FEs
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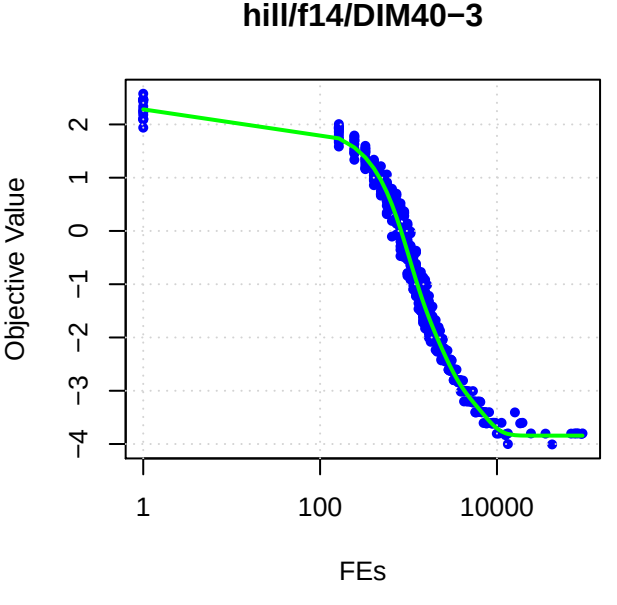
−3
−4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Objective Value
FEs
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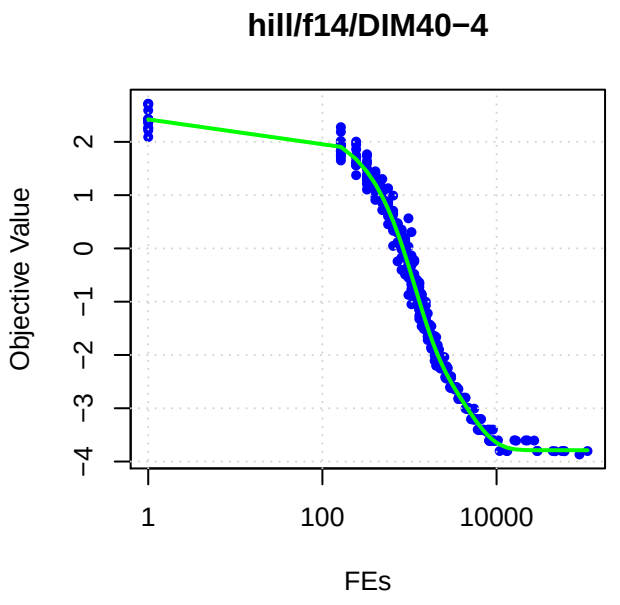
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Objective Value
FEs
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2
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−2
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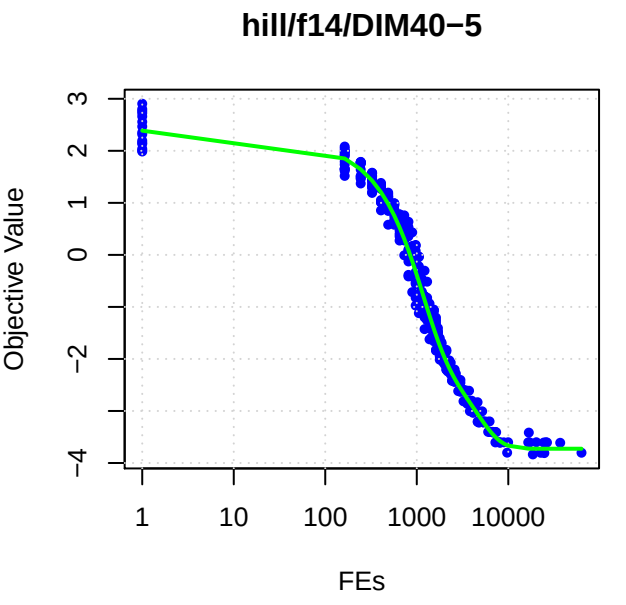
−4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Objective Value
FEs
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10000
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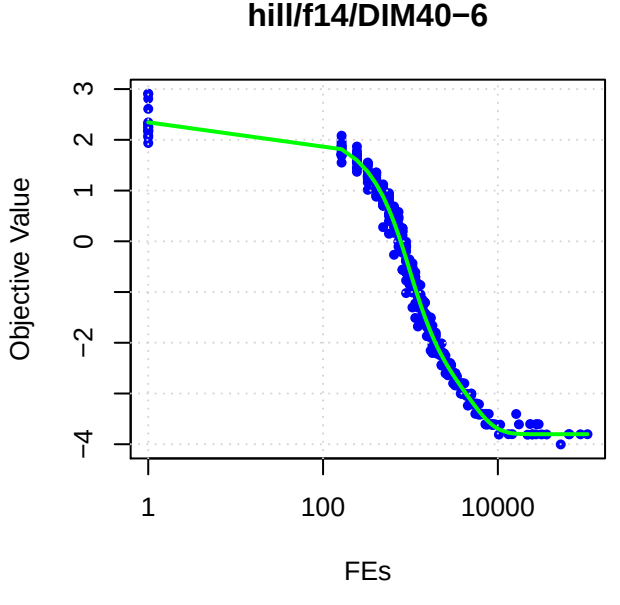
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Objective Value
FEs
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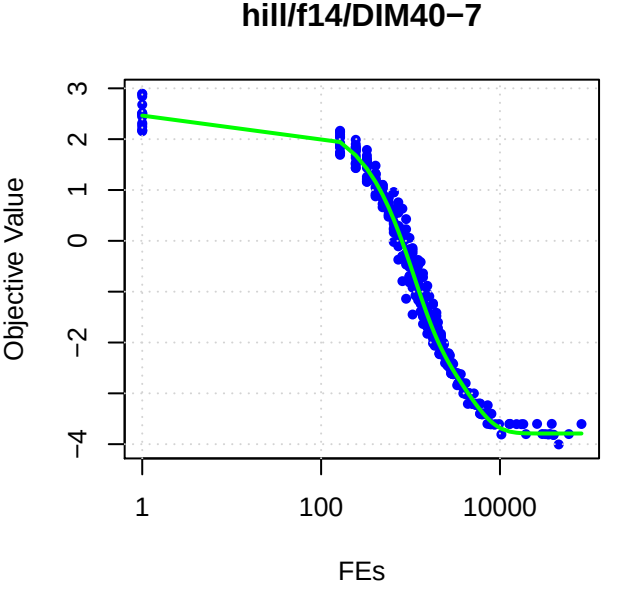
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Objective Value
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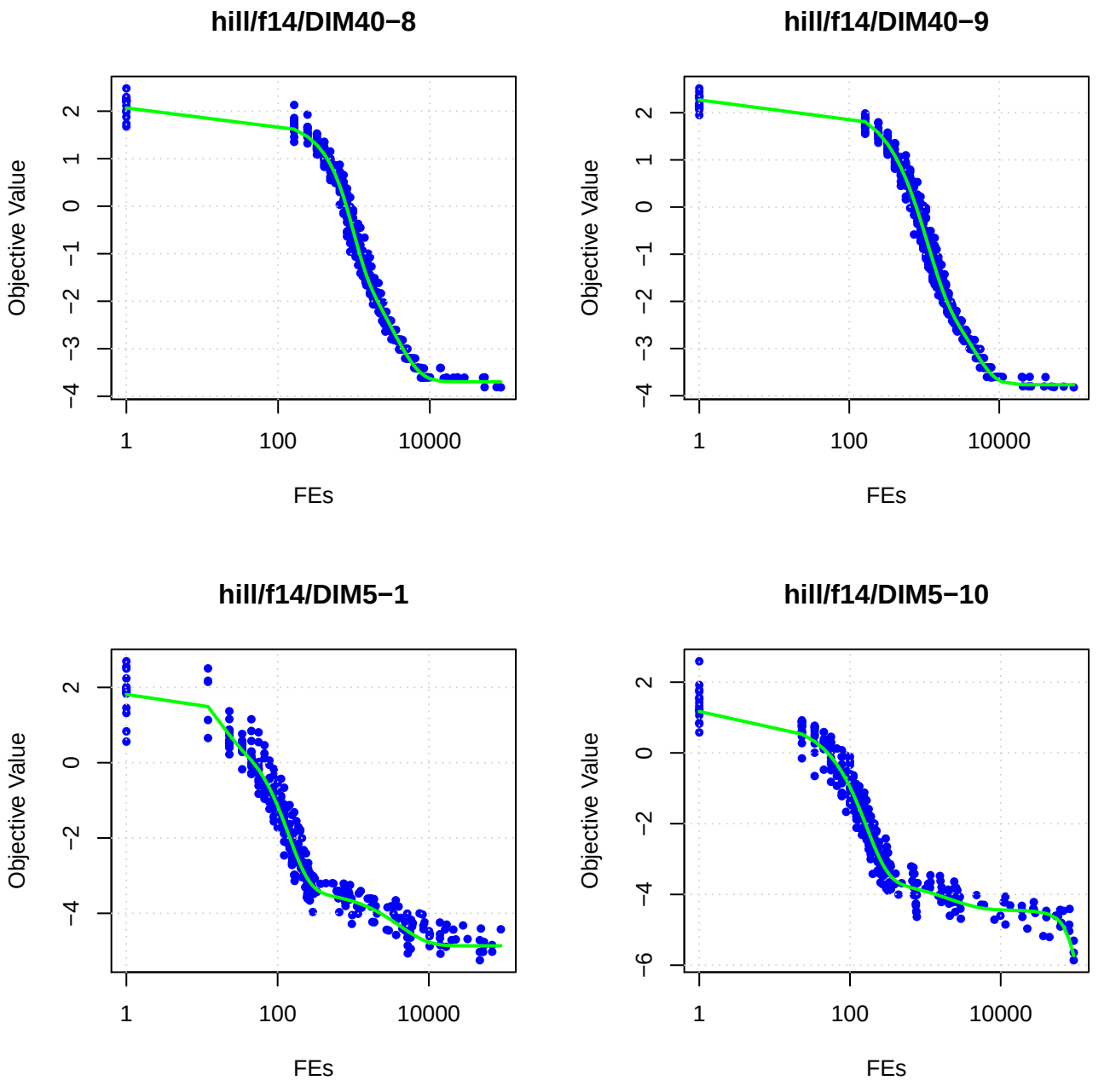
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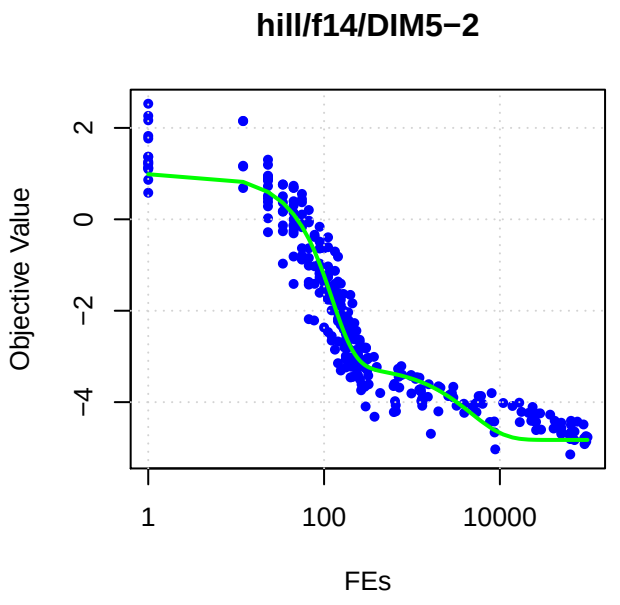
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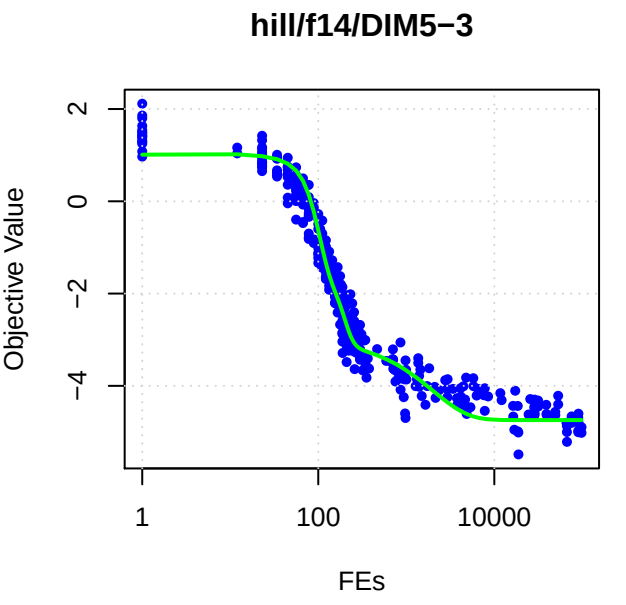
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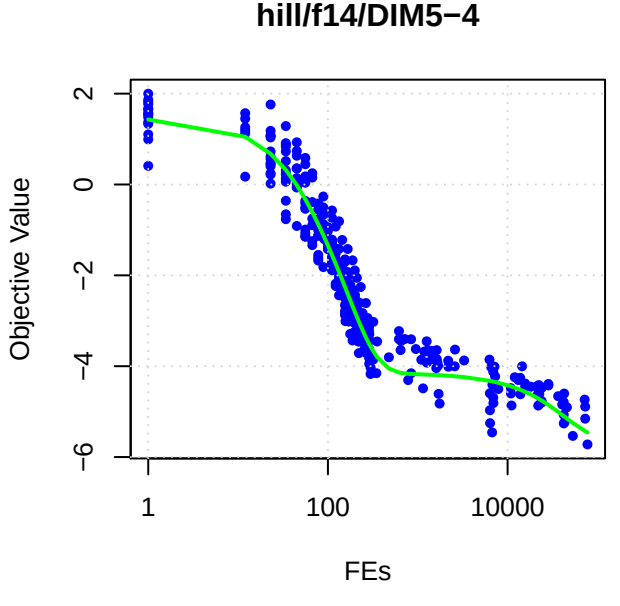
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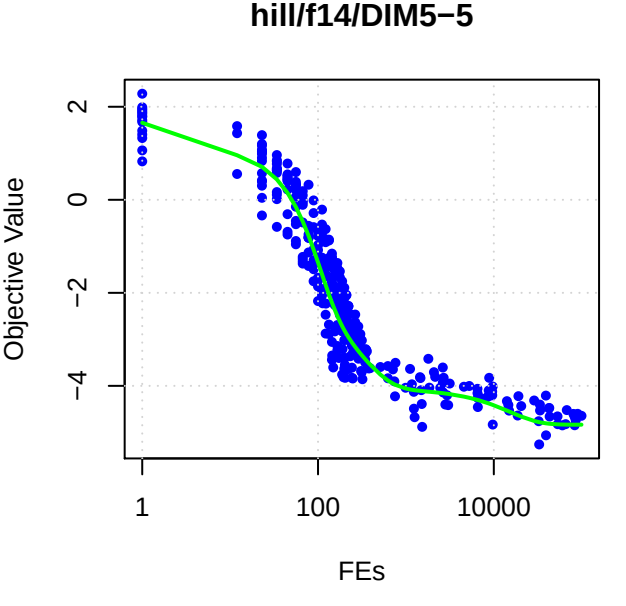
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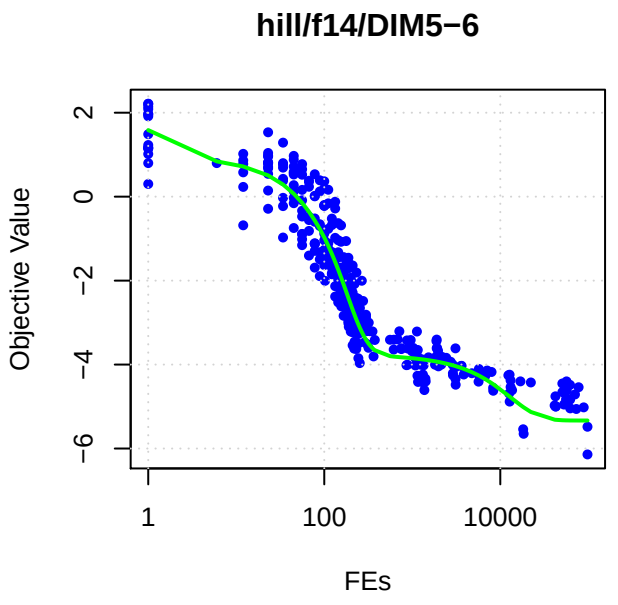
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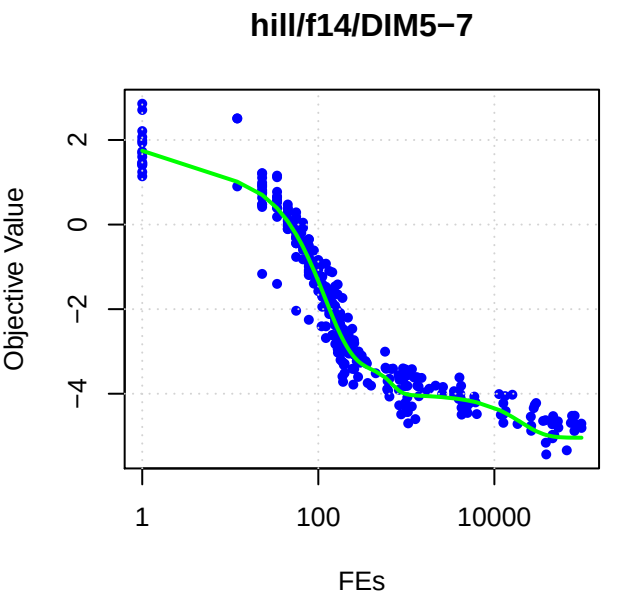
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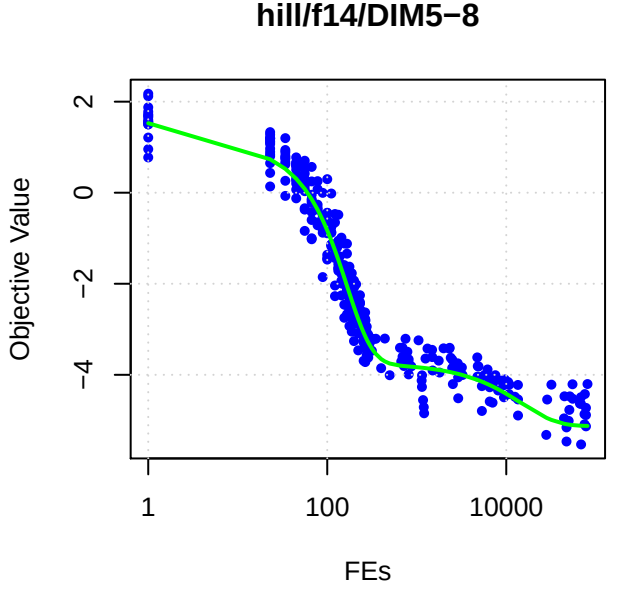
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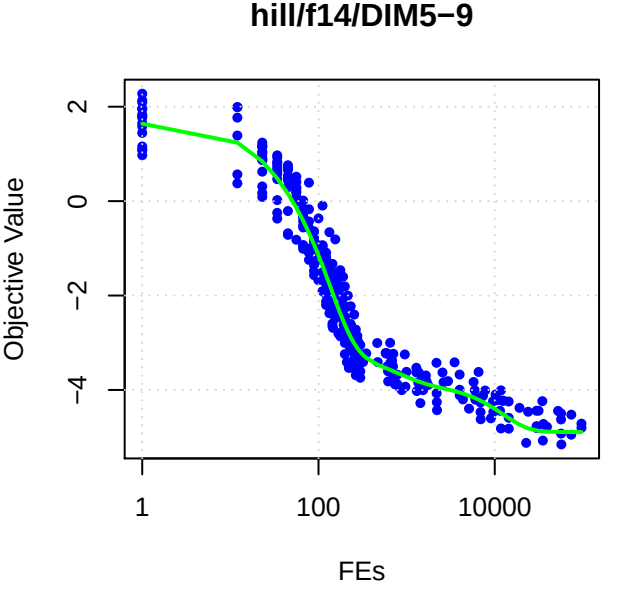
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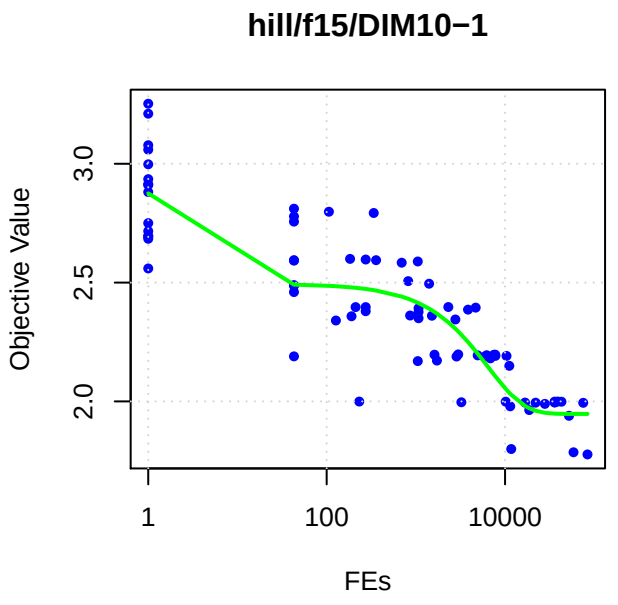
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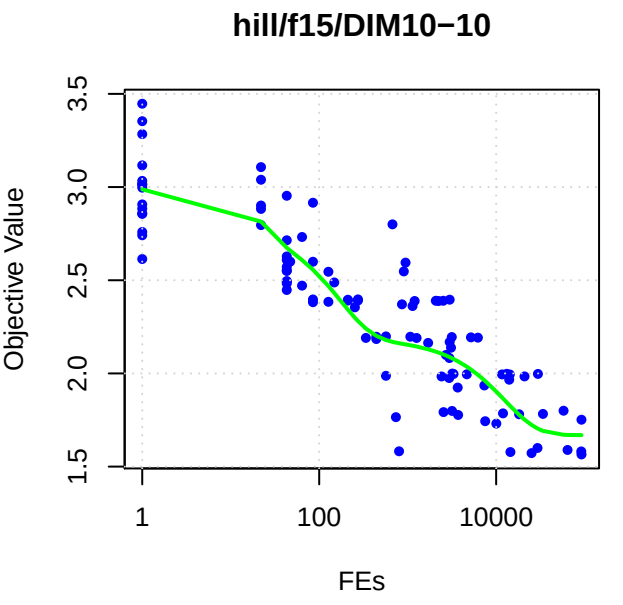
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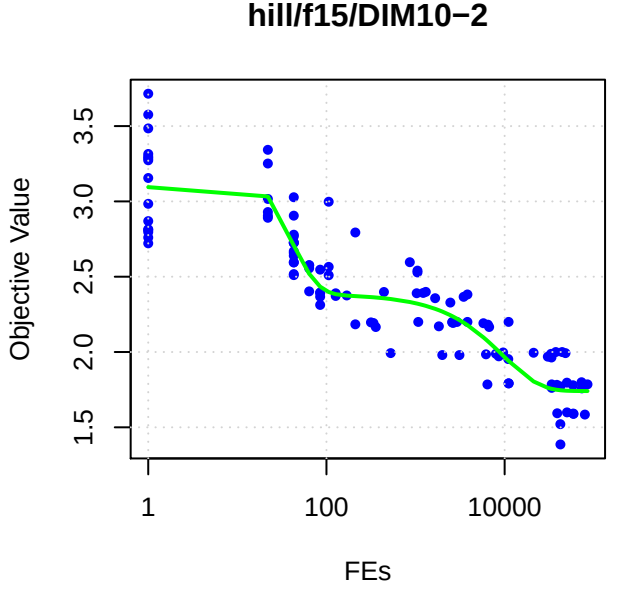
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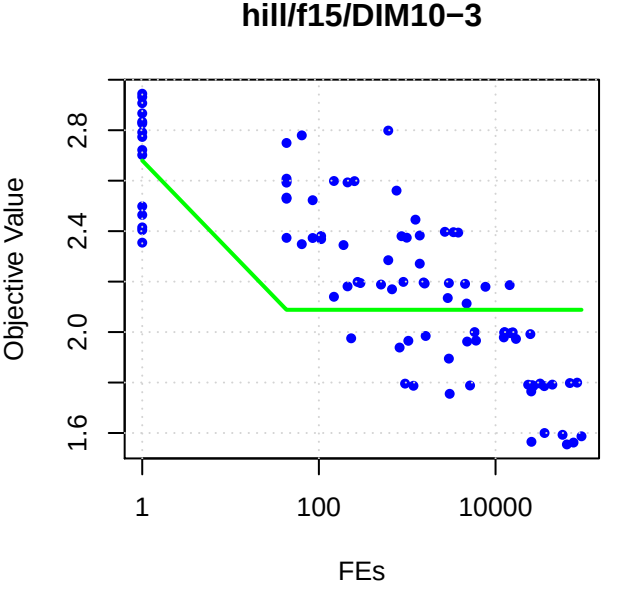
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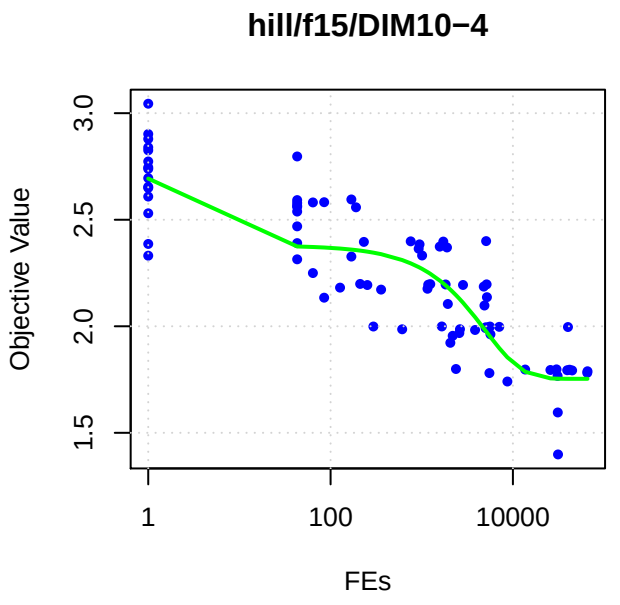
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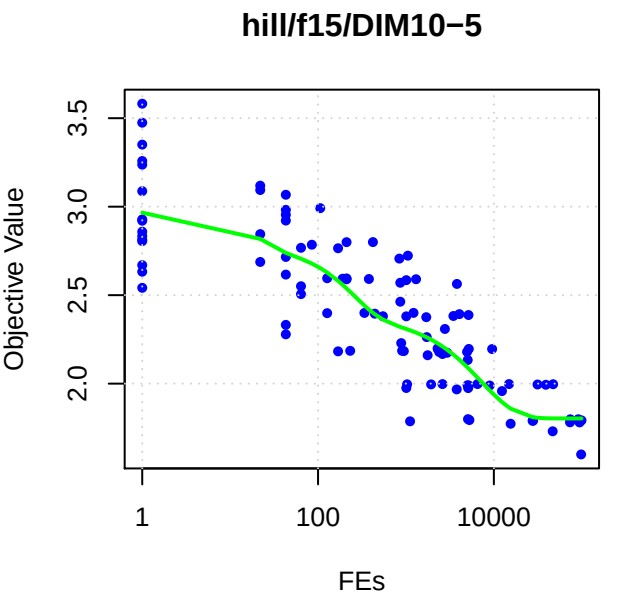
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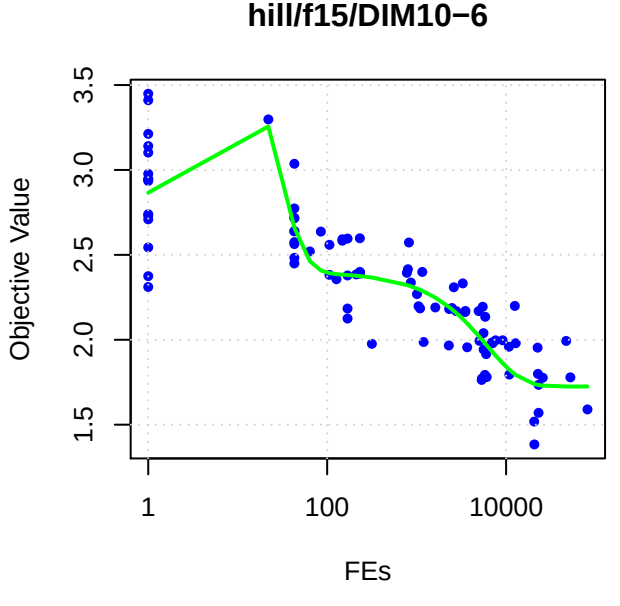
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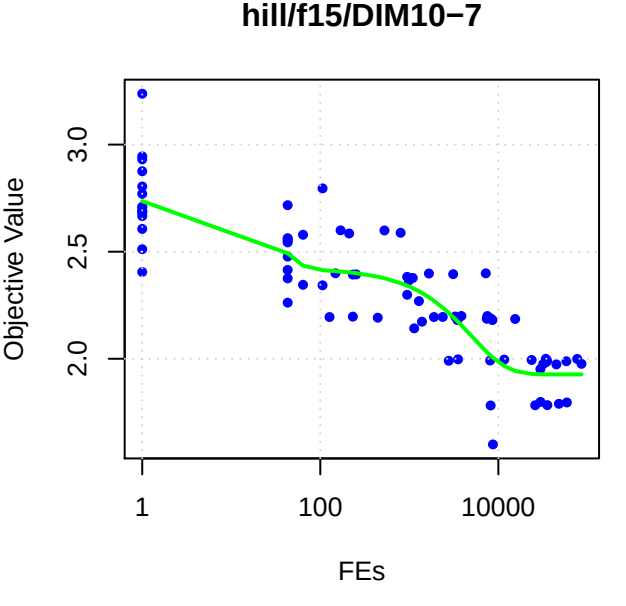
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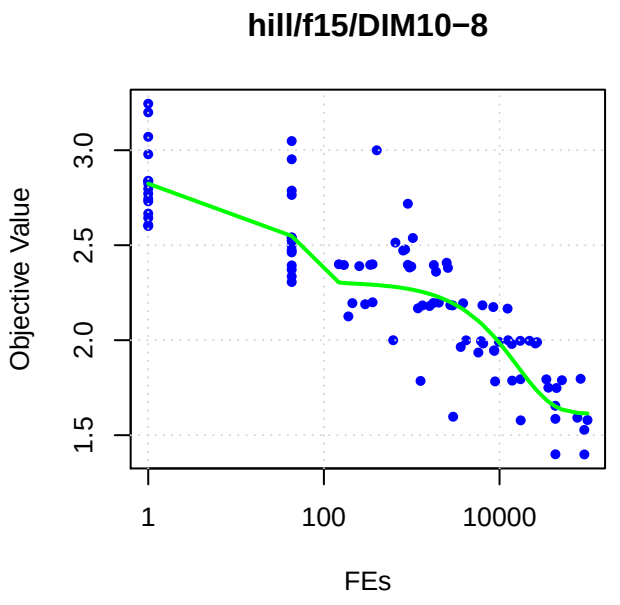
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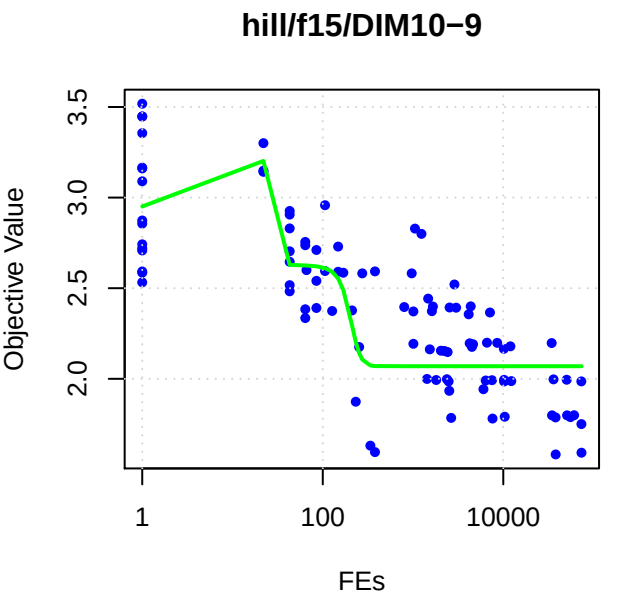
hill/f15/DIM10−9
Objective Value
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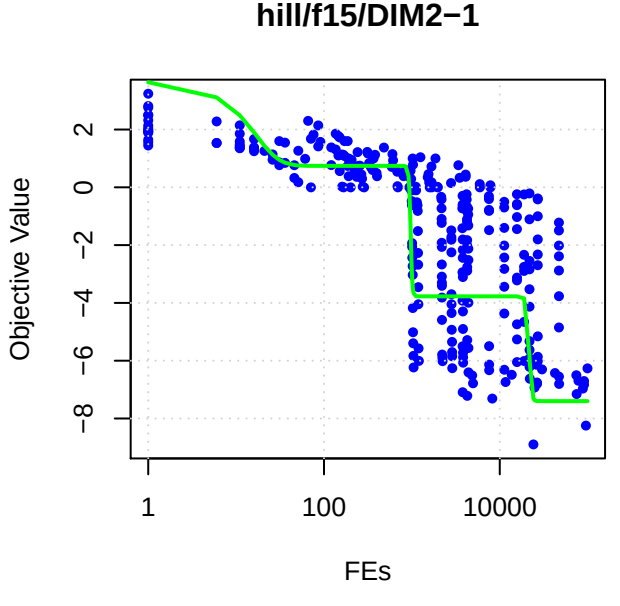
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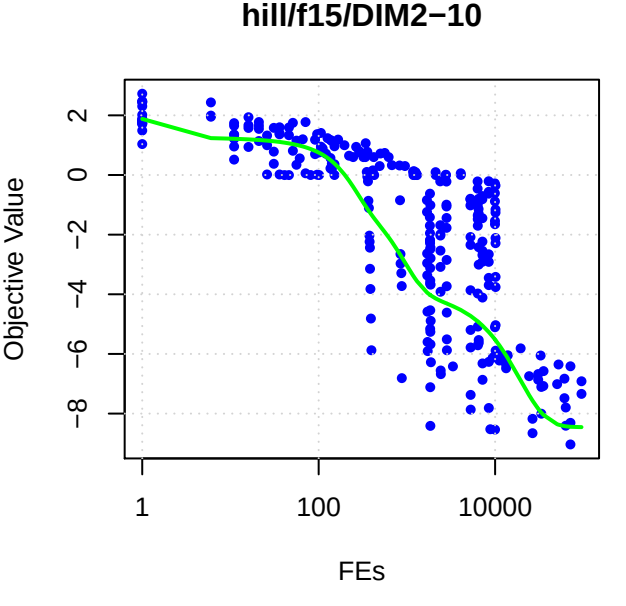
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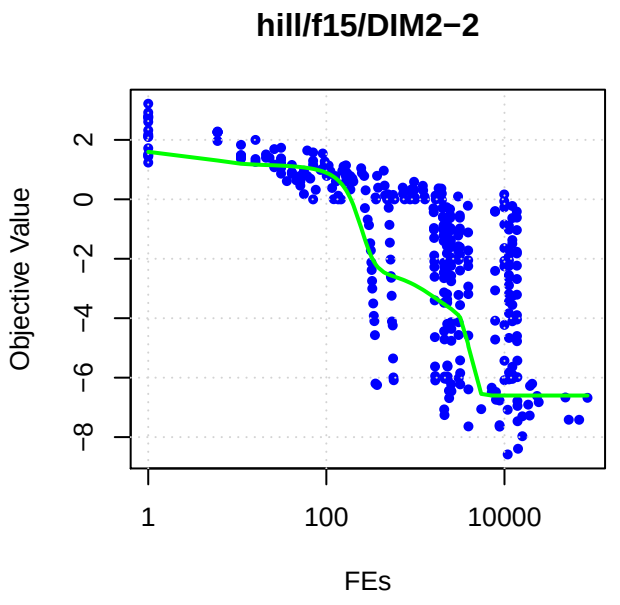
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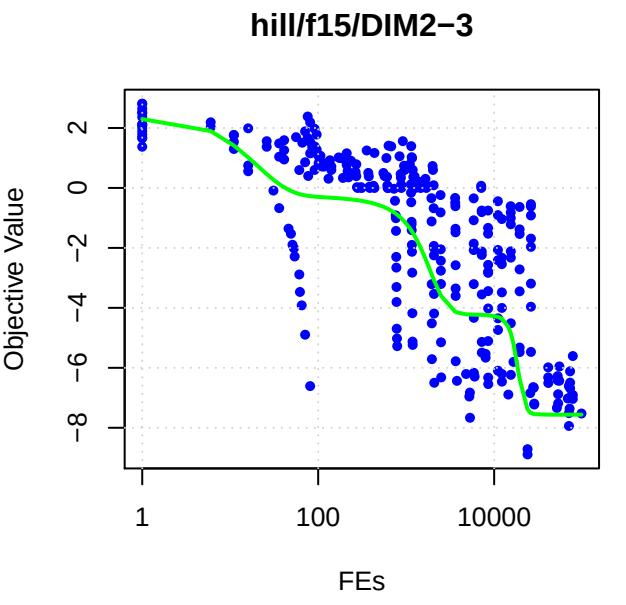
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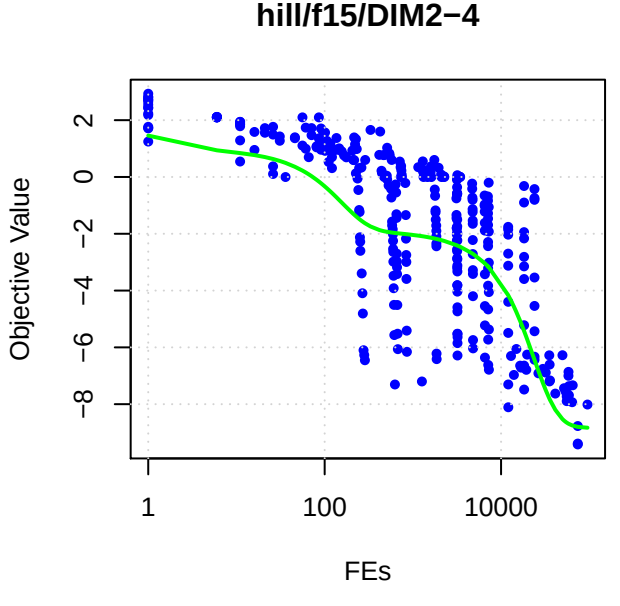
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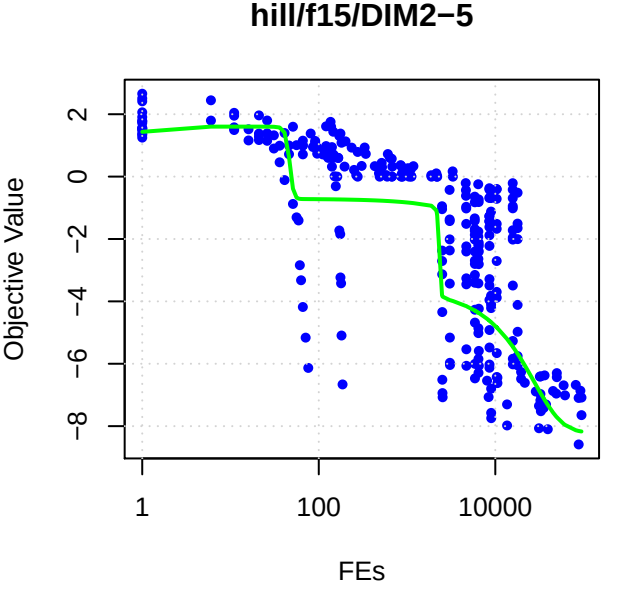
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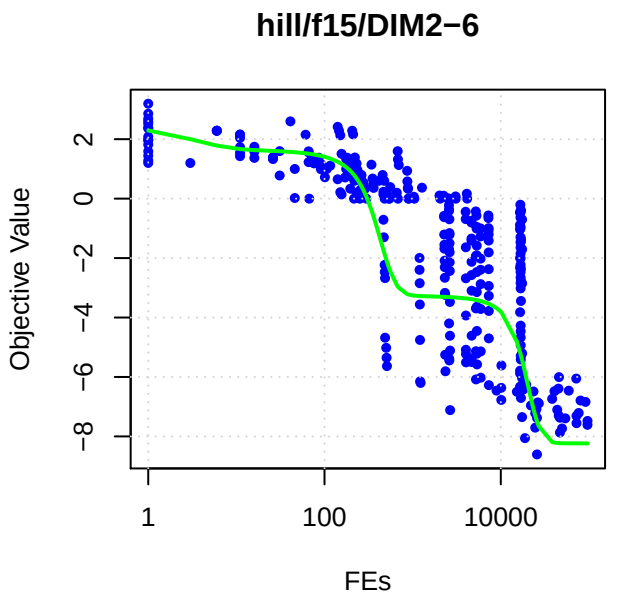
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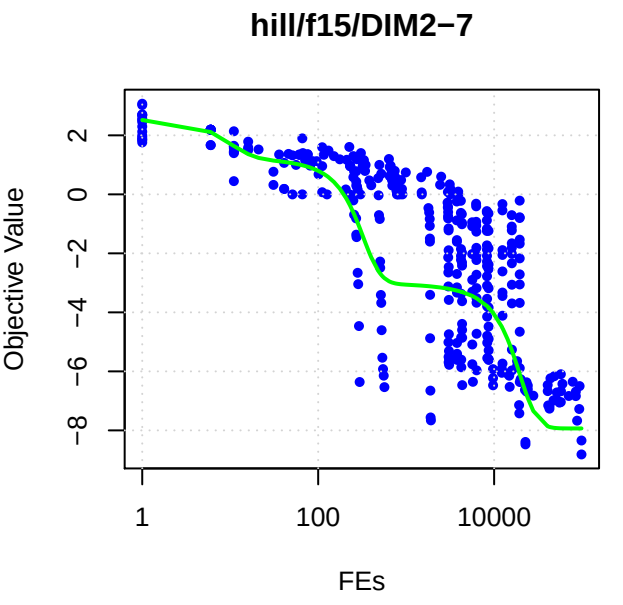
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Objective Value
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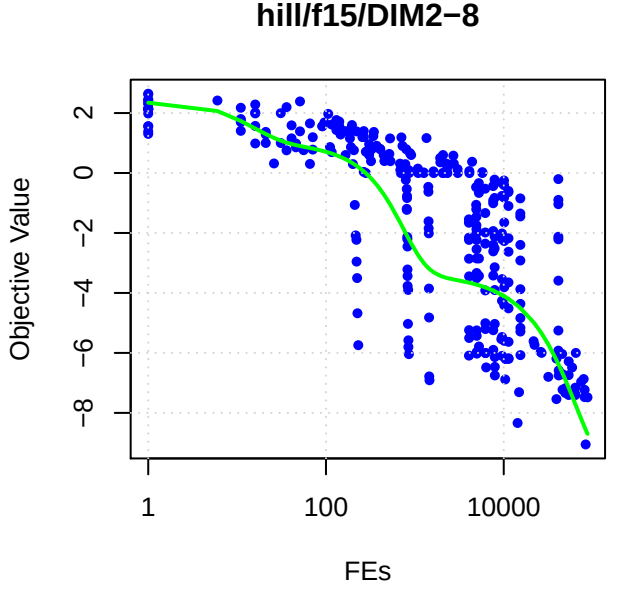
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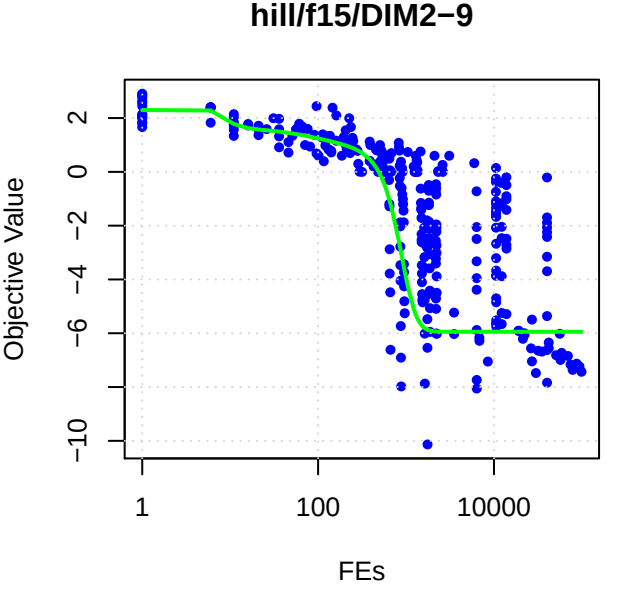
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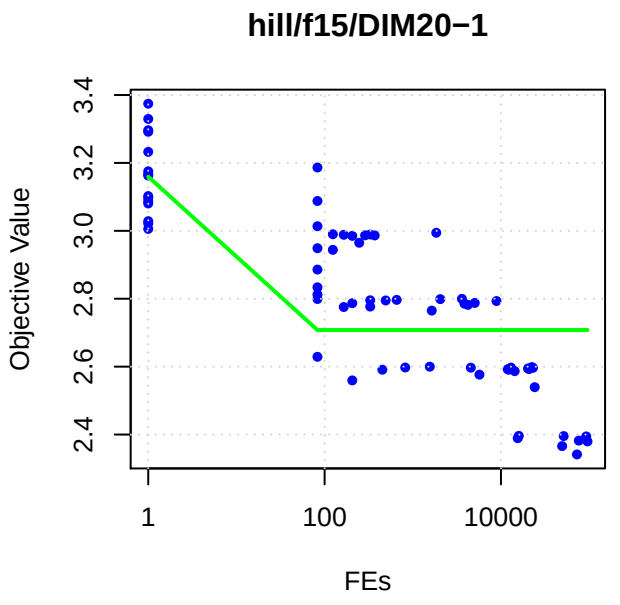
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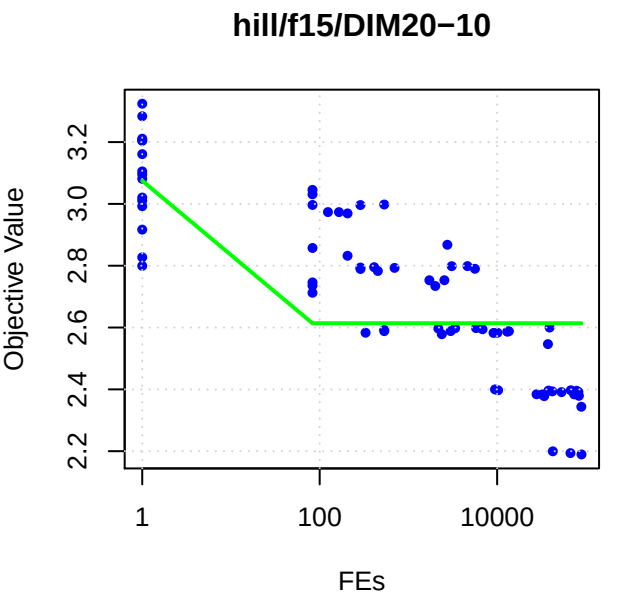
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Objective Value
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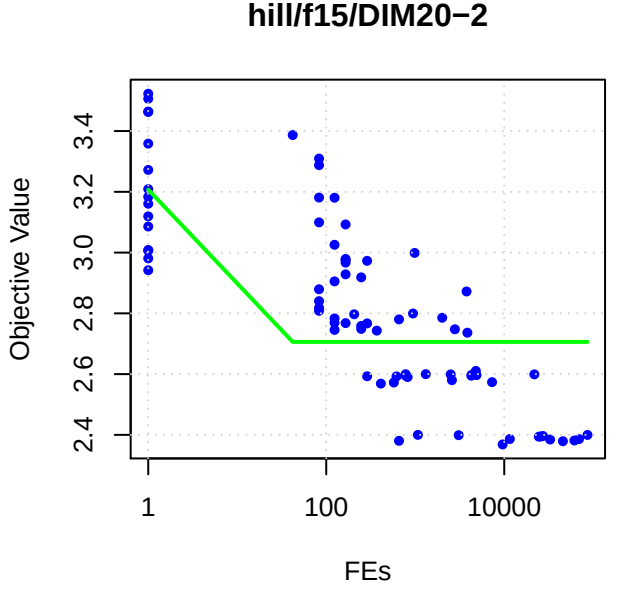
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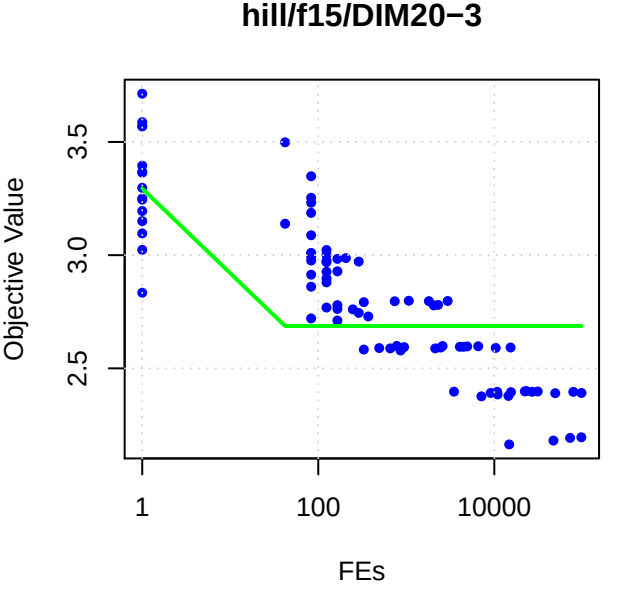
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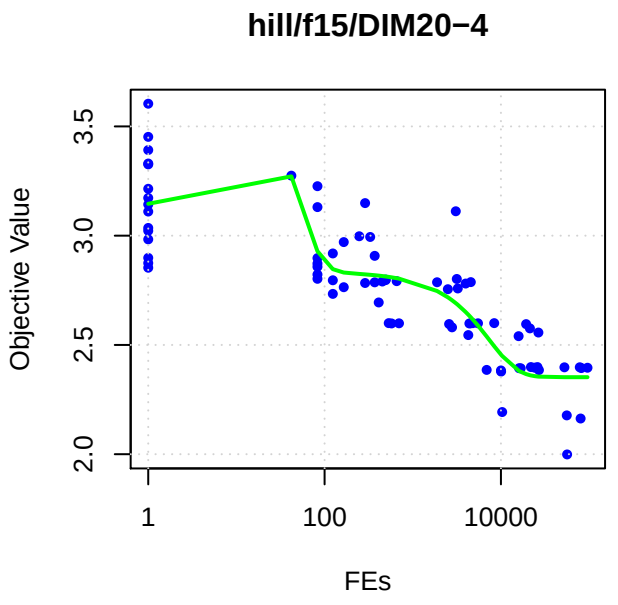
FEs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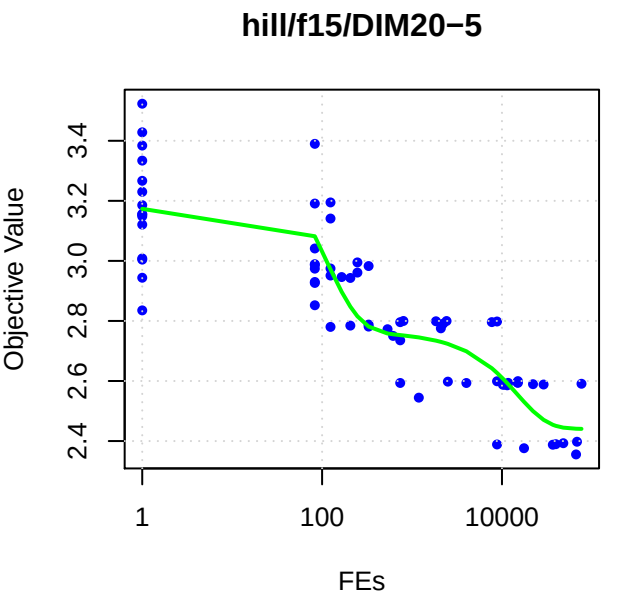
FEs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Objective Value
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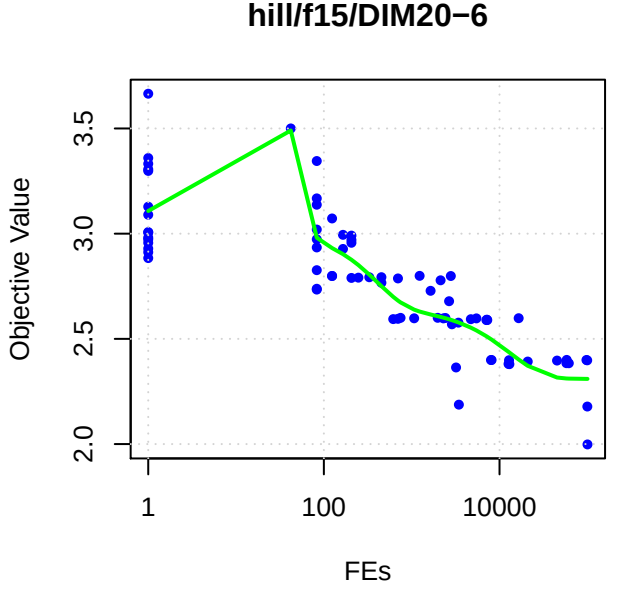
FEs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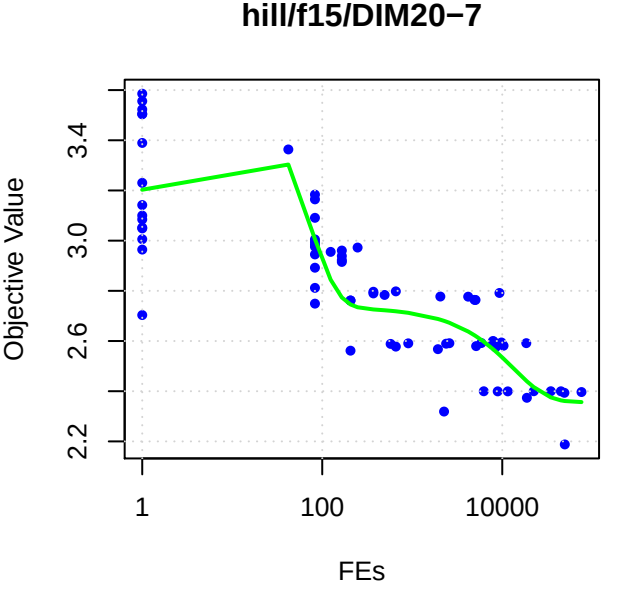
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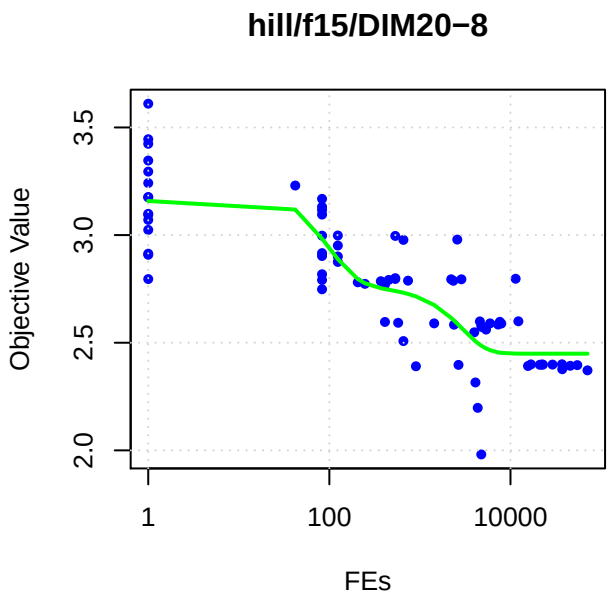
FEs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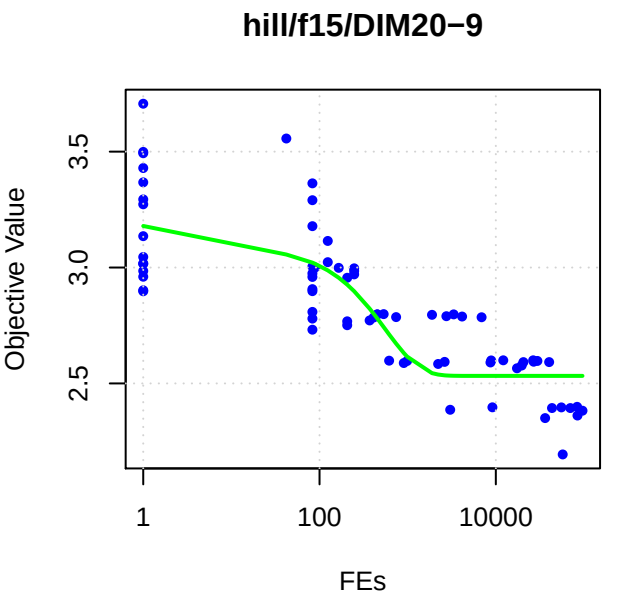
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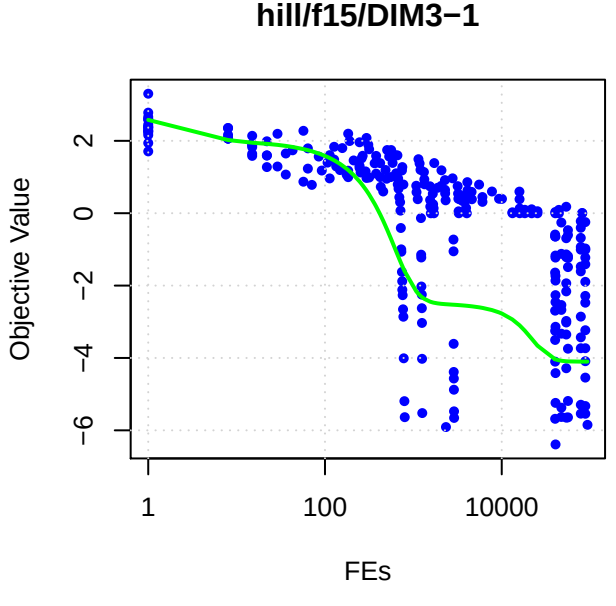
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Objective Value
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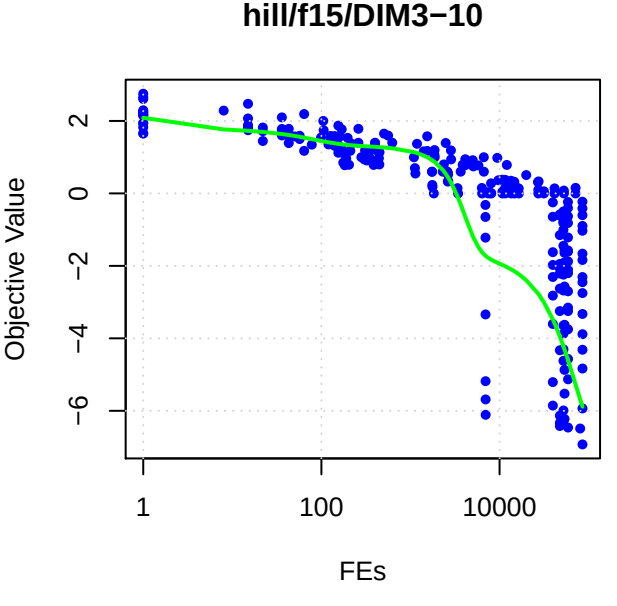
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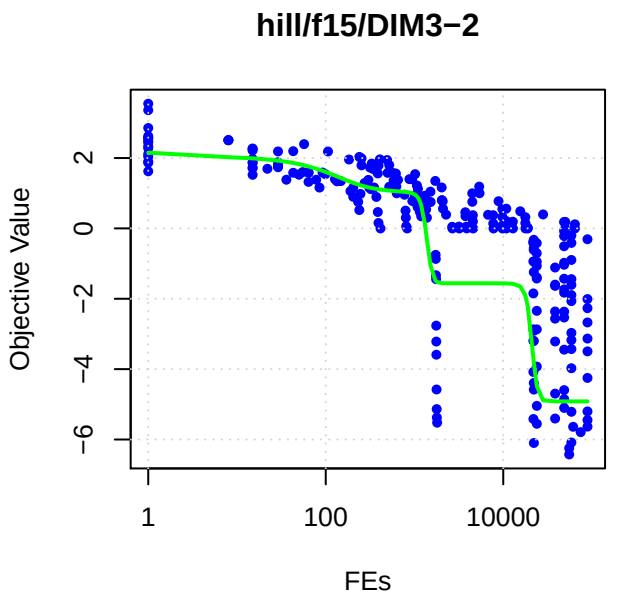
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Objective Value
FEs
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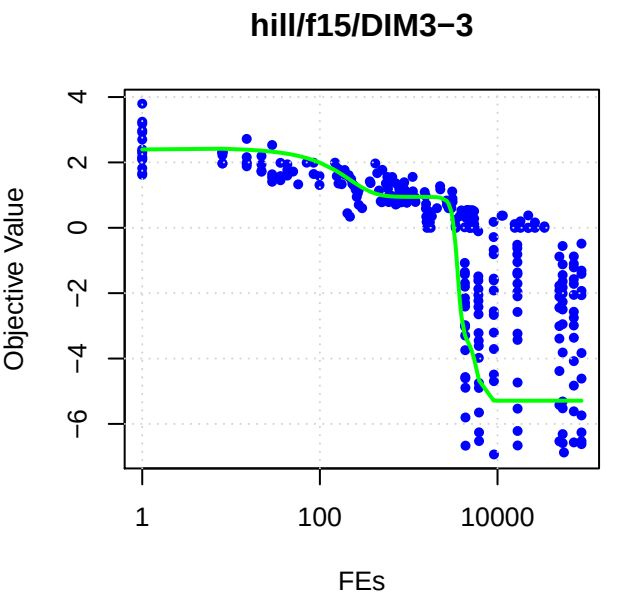
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Objective Value
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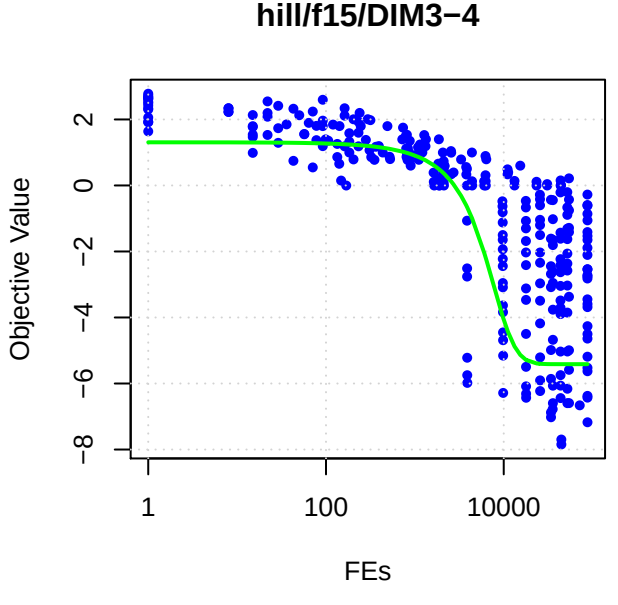
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Objective Value
FEs
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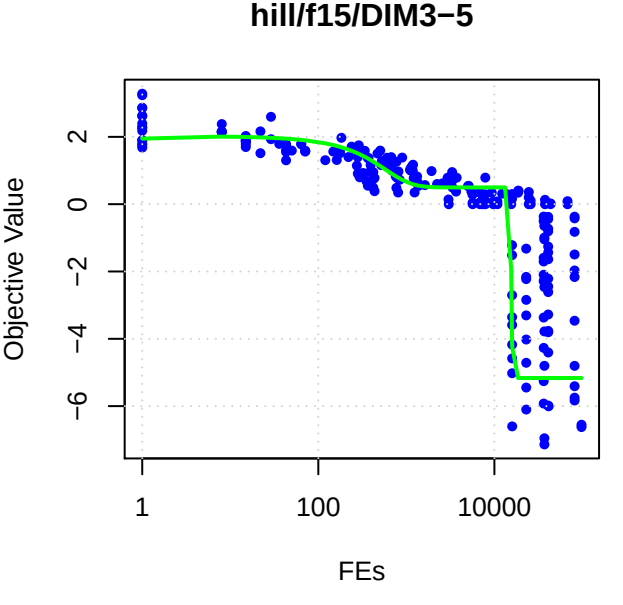
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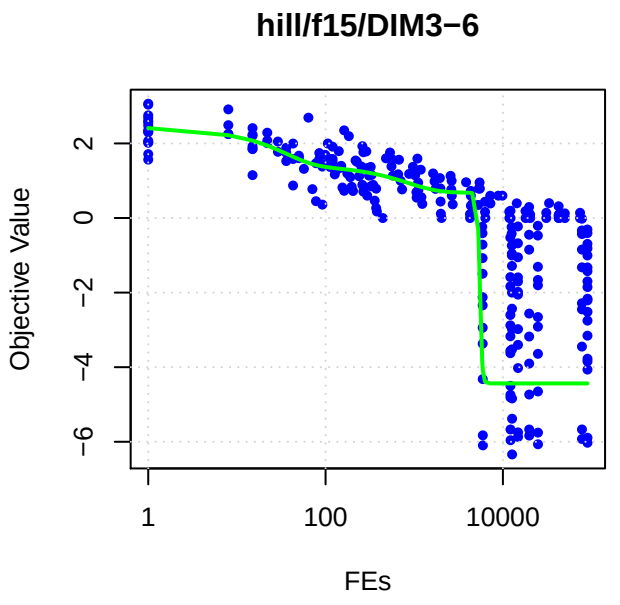
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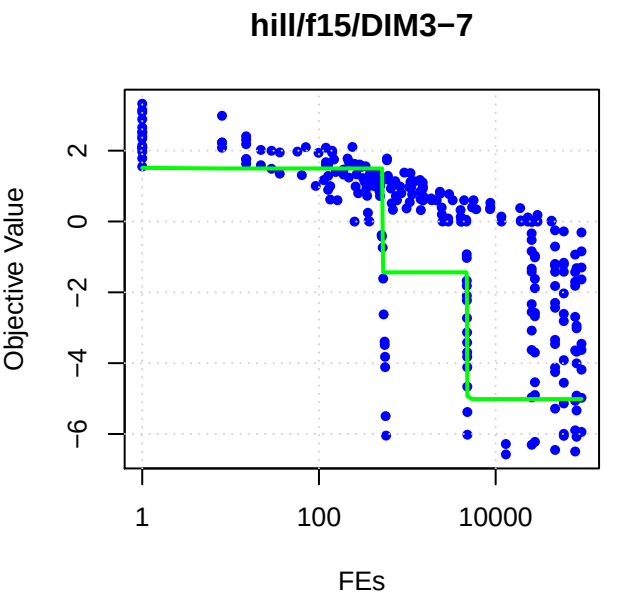
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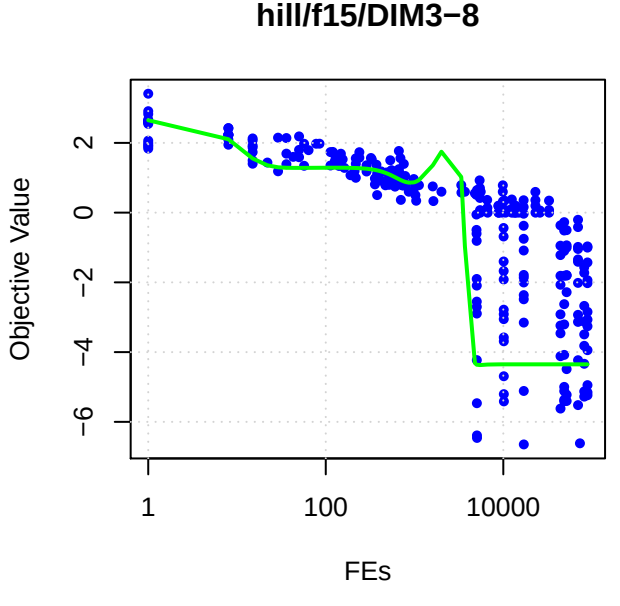
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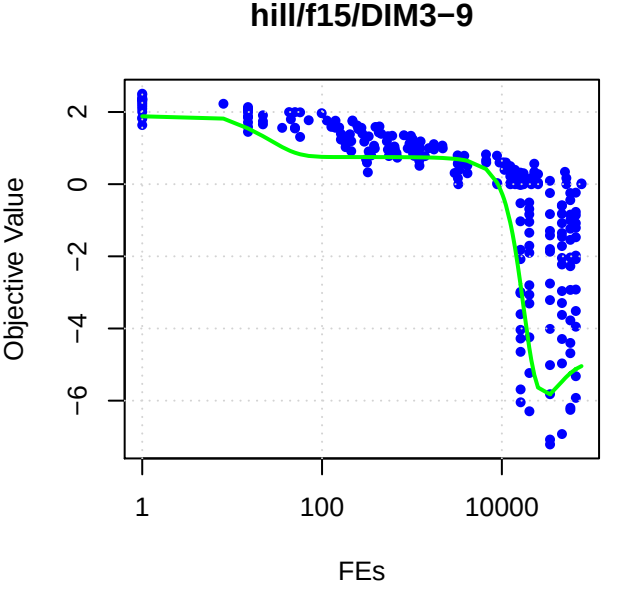
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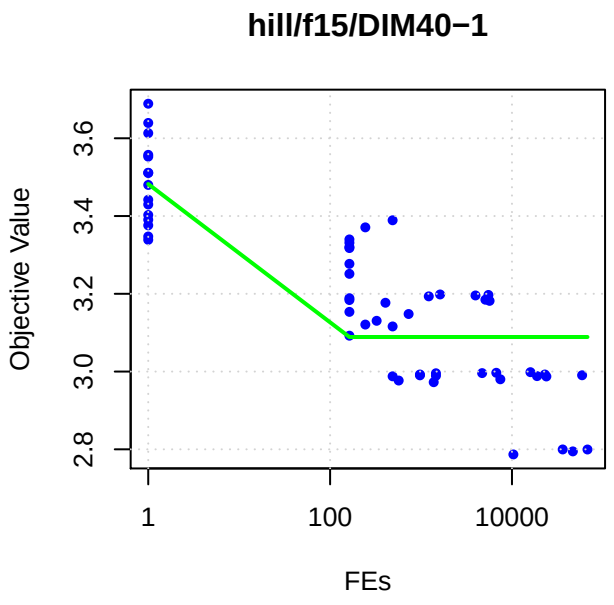
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Objective Value
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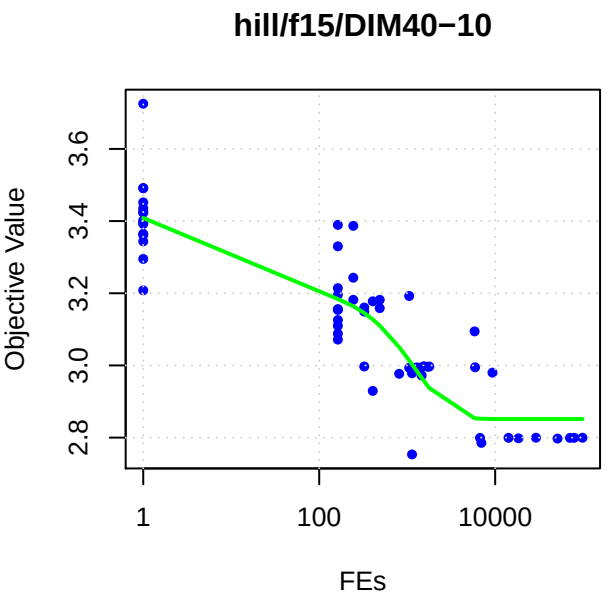
FEs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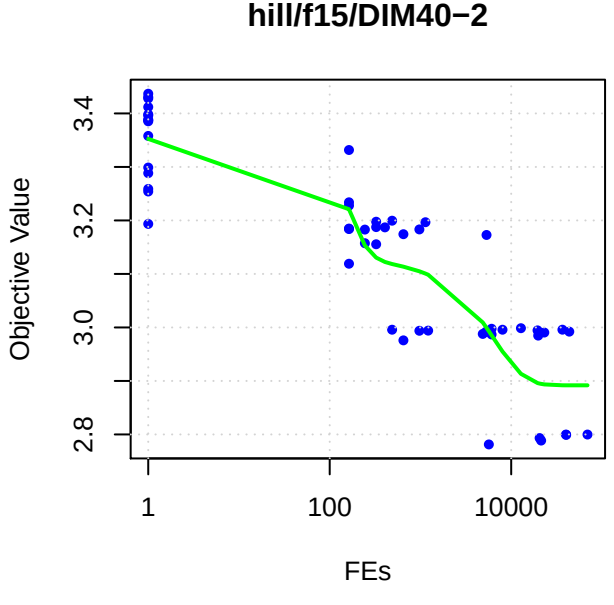
FEs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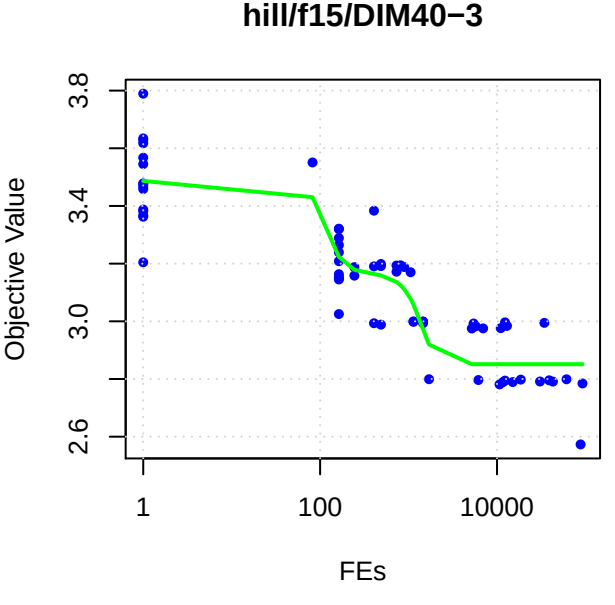
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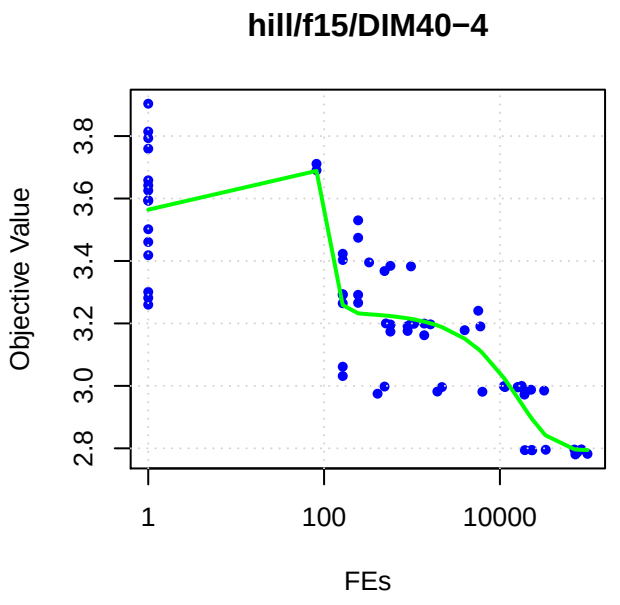
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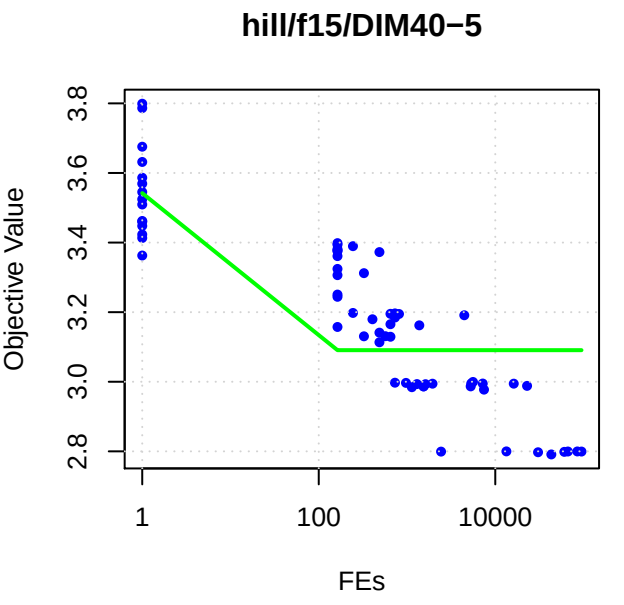
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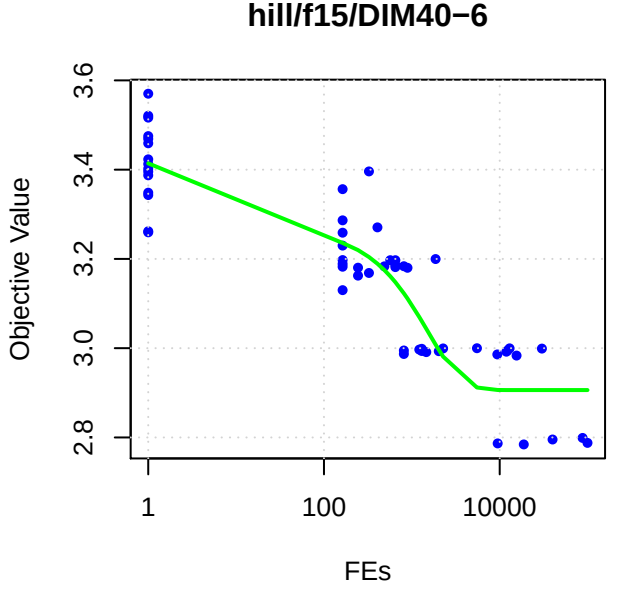
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Objective Value
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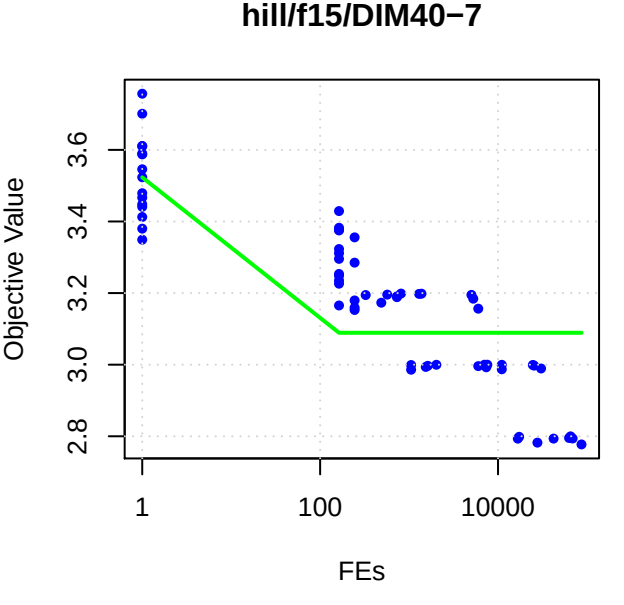
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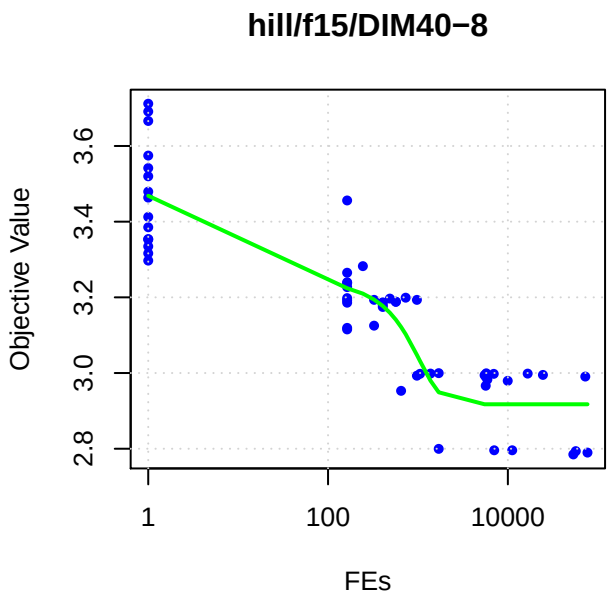
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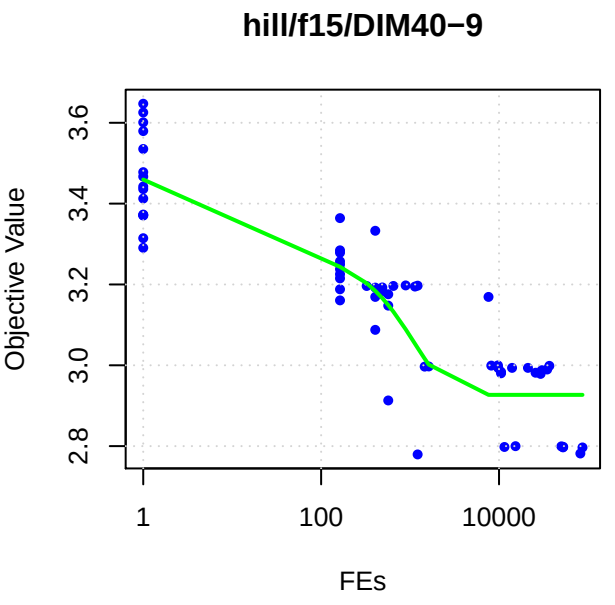
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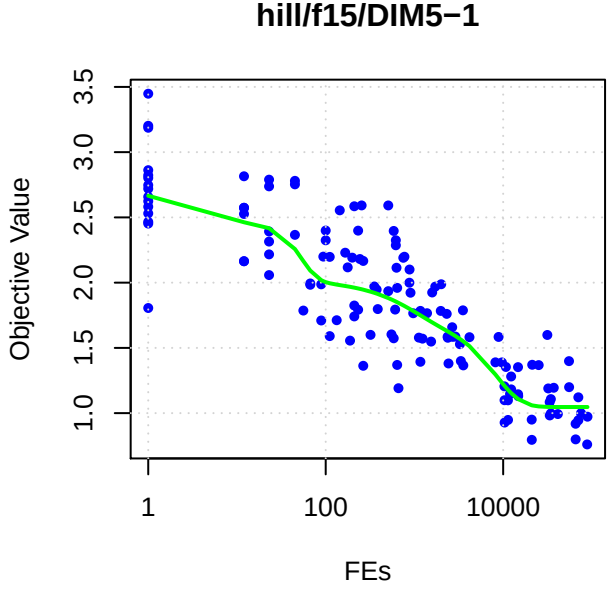
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Objective Value
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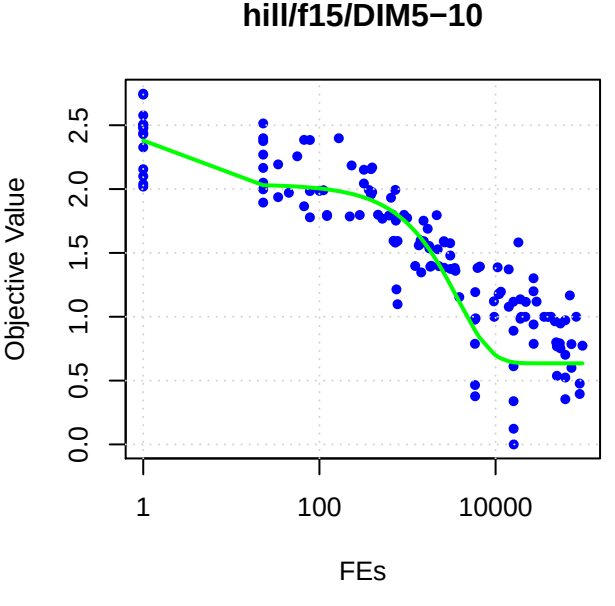
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Objective Value
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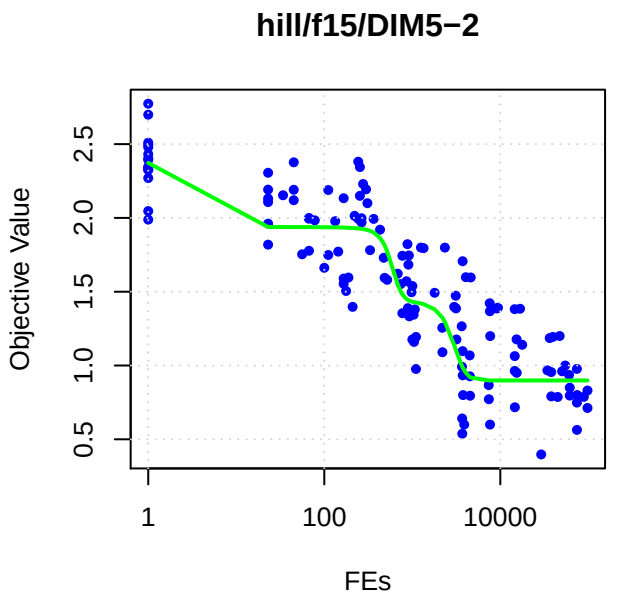
hill/f15/DIM5−2
Objective Value
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10000
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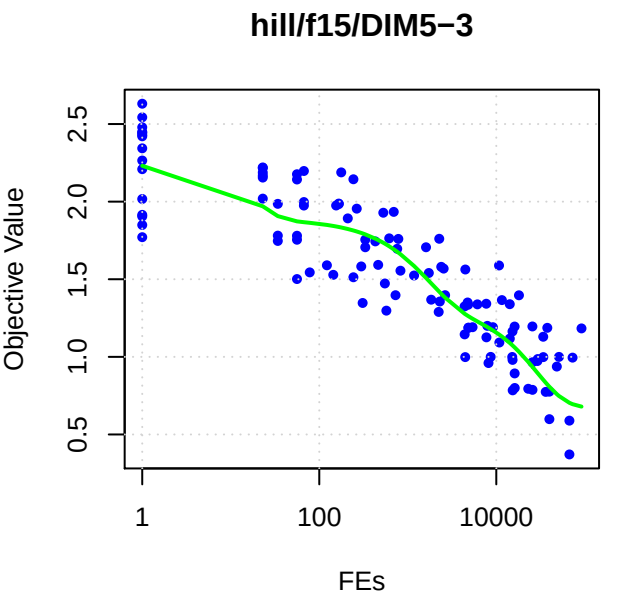
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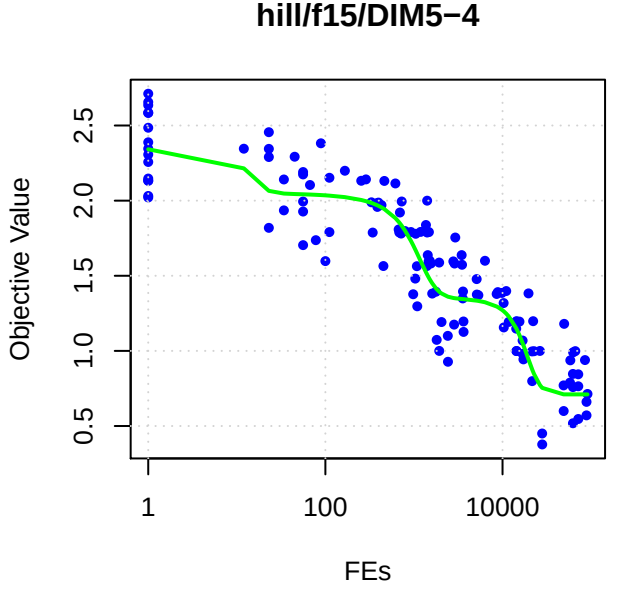
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Objective Value
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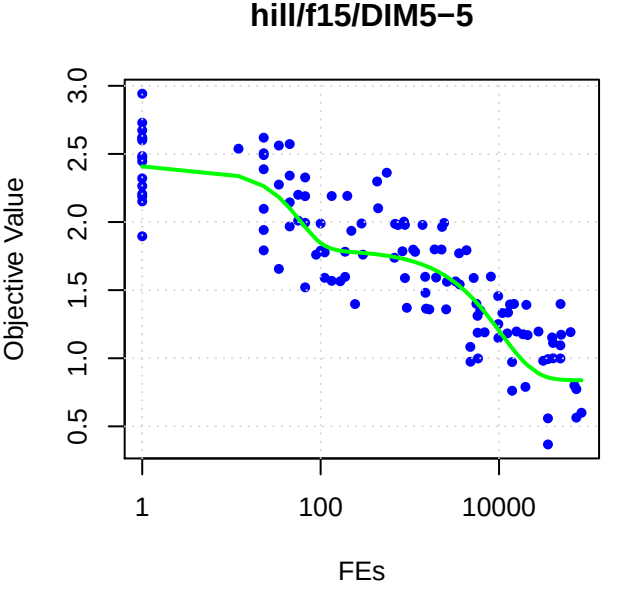
FEs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Objective Value
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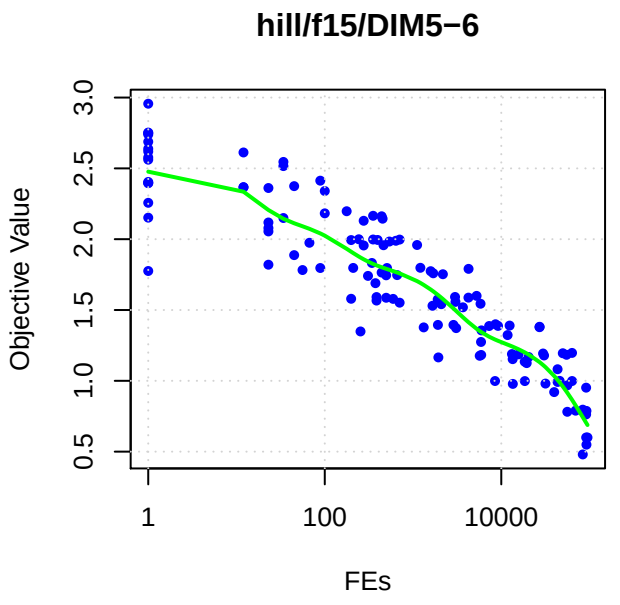
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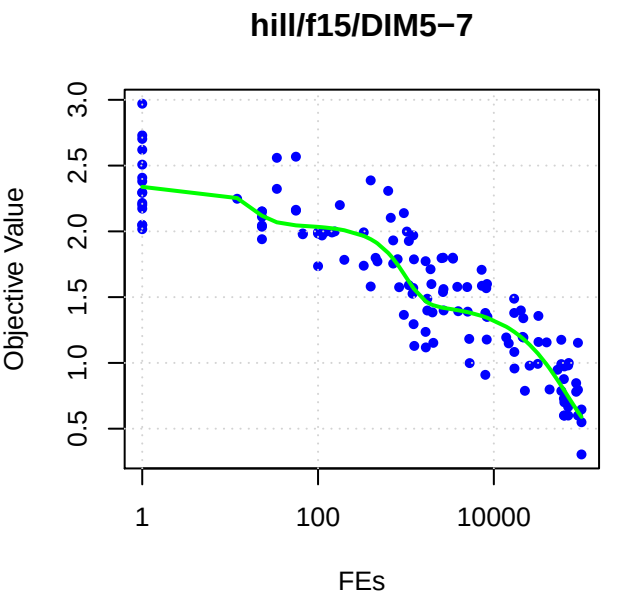
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Objective Value
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2.5
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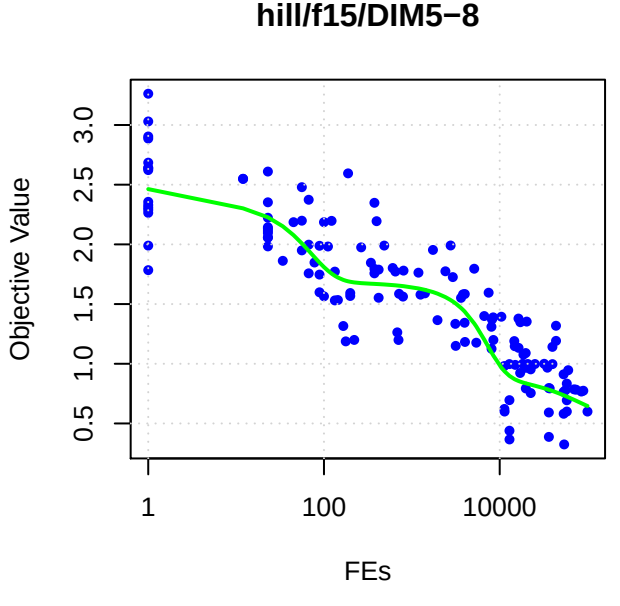
10000
FEs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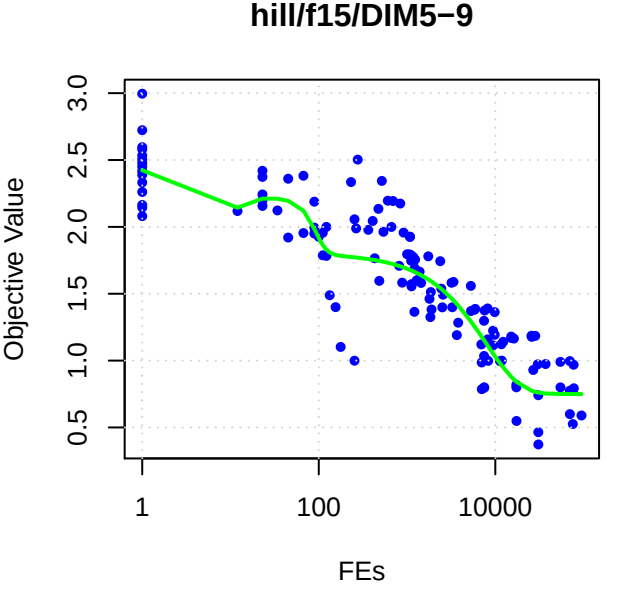
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Objective Value
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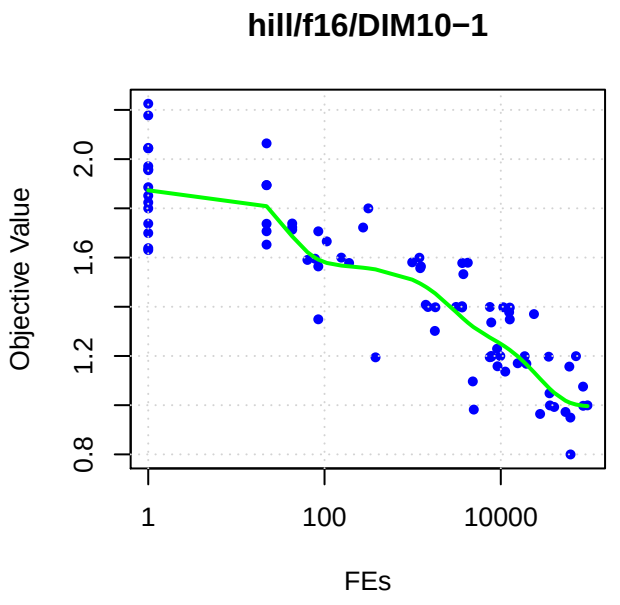
10000
FEs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Objective Value
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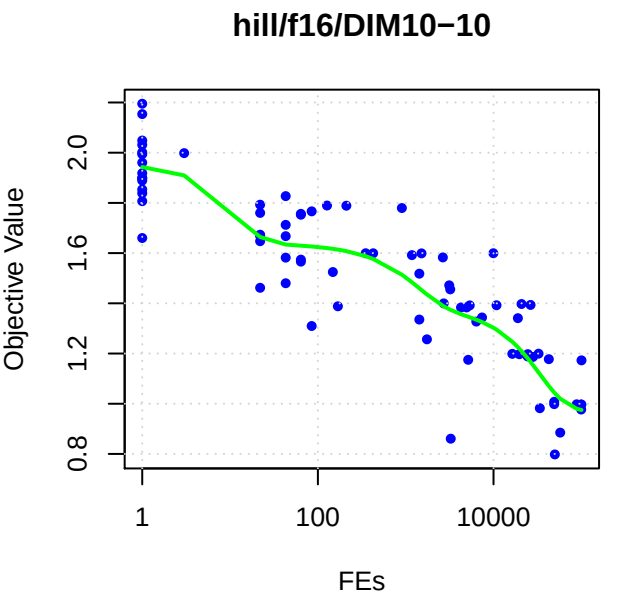
10000
FEs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Objective Value
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1.6
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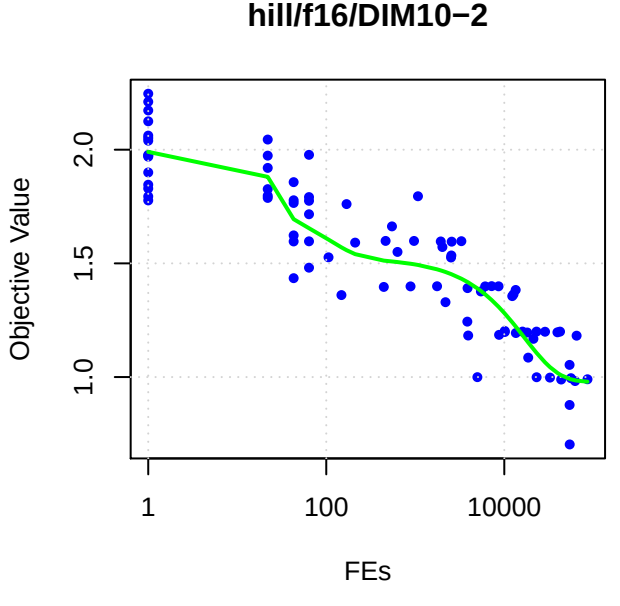
FEs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Objective Value
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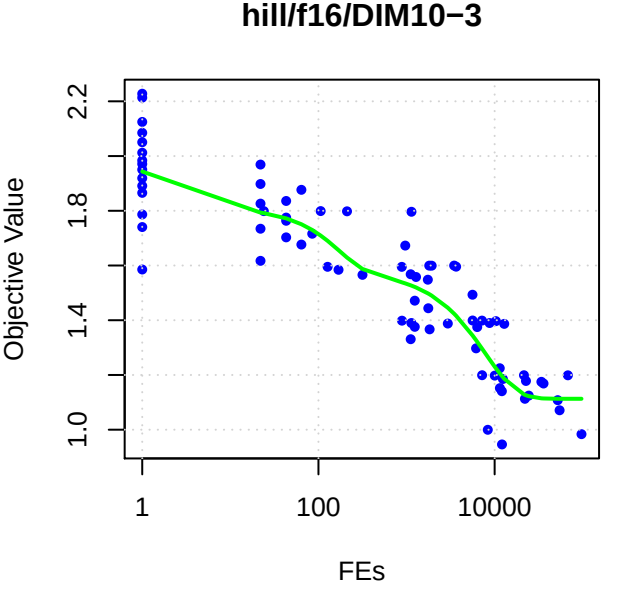
10000
FEs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Objective Value
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1.4
1.8
2.2
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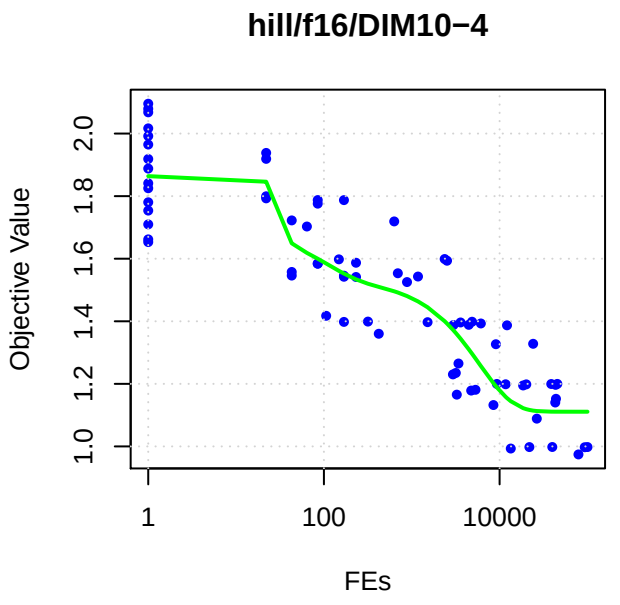
10000
FEs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Objective Value
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1.4
1.6
1.8
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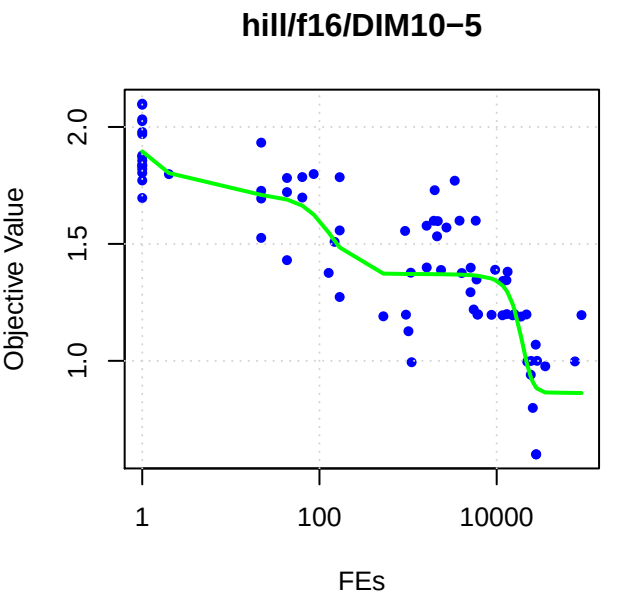
10000
FEs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Objective Value
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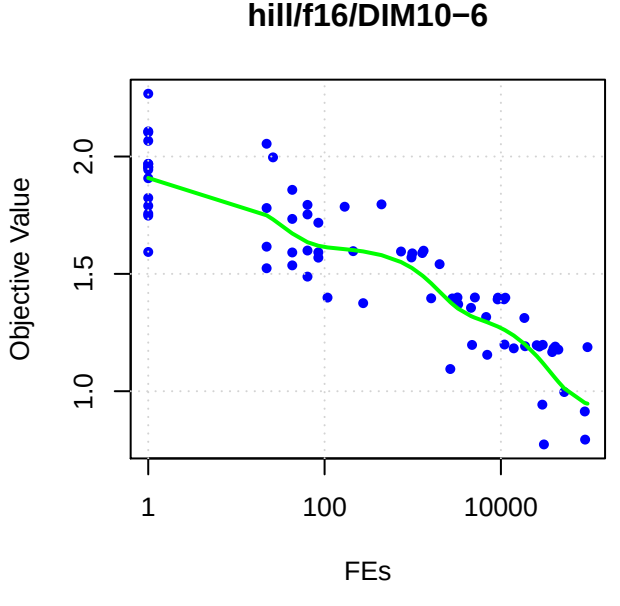
FEs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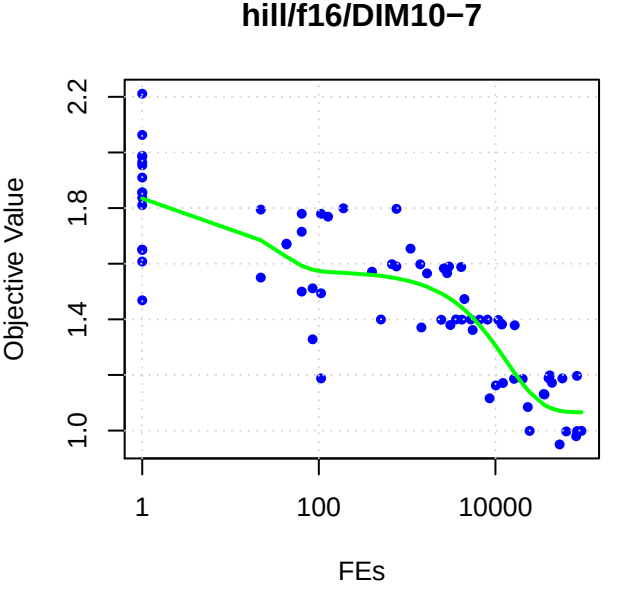
FEs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Objective Value
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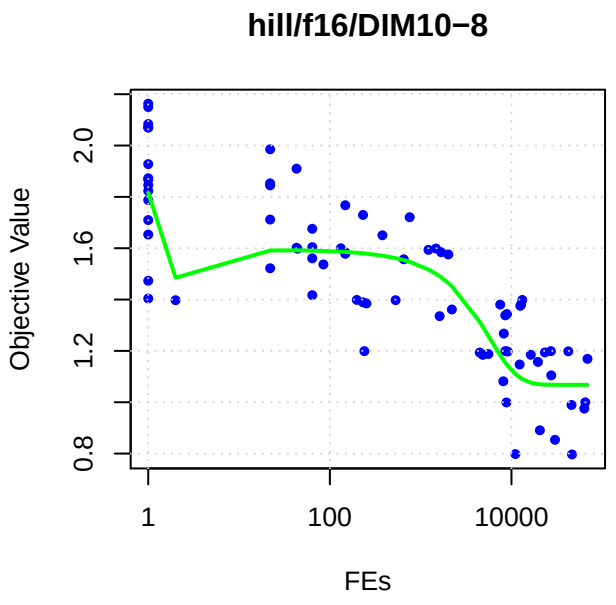
10000
FEs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Objective Value
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1.6
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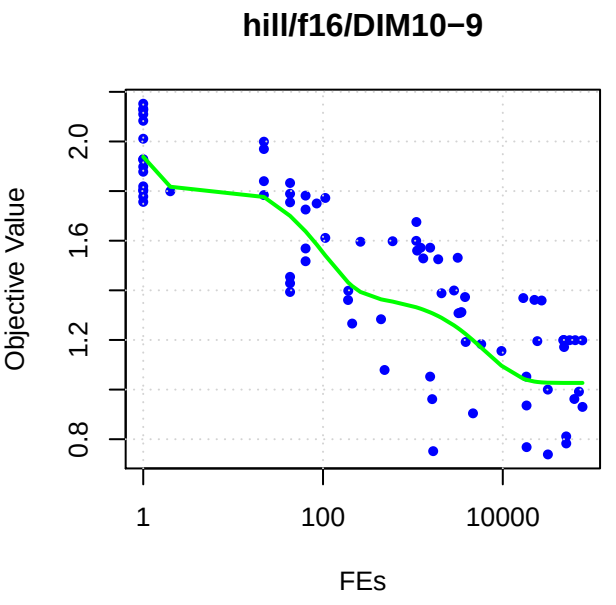
FEs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Objective Value
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1.6
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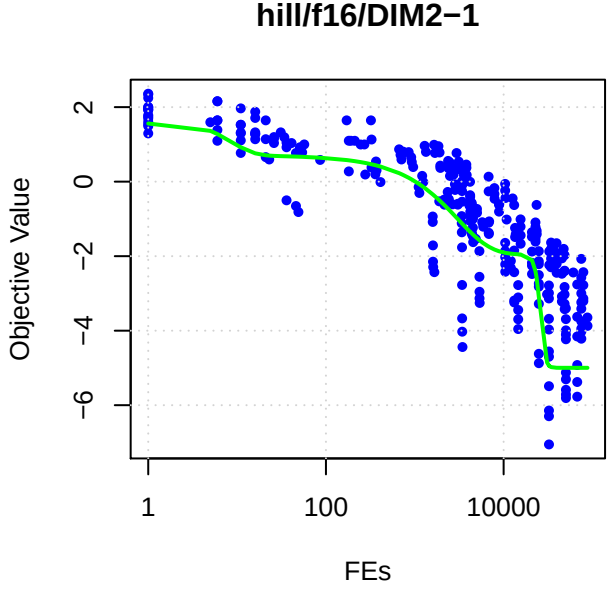
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Objective Value
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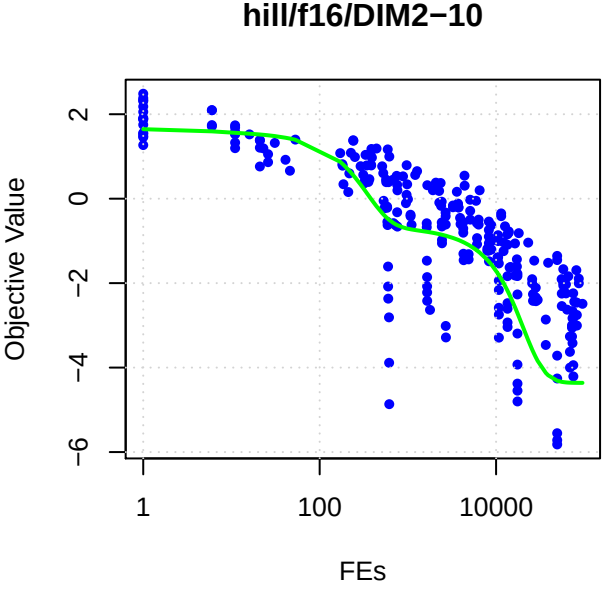
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Objective Value
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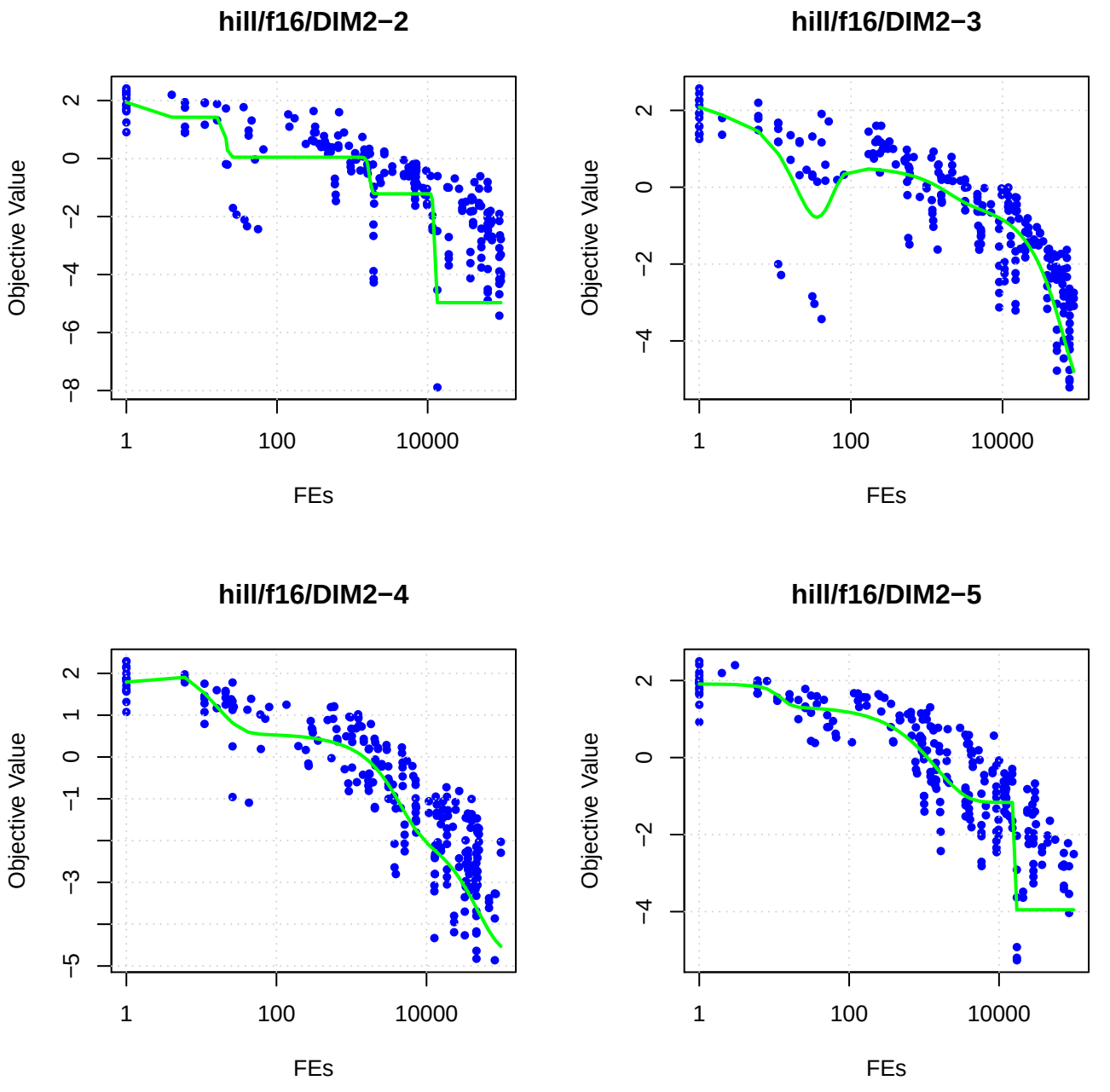
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Objective Value
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hill/f16/DIM2−3
Objective Value
FEs
hill/f16/DIM2−4
Objective Value
FEs
hill/f16/DIM2−5
Objective Value
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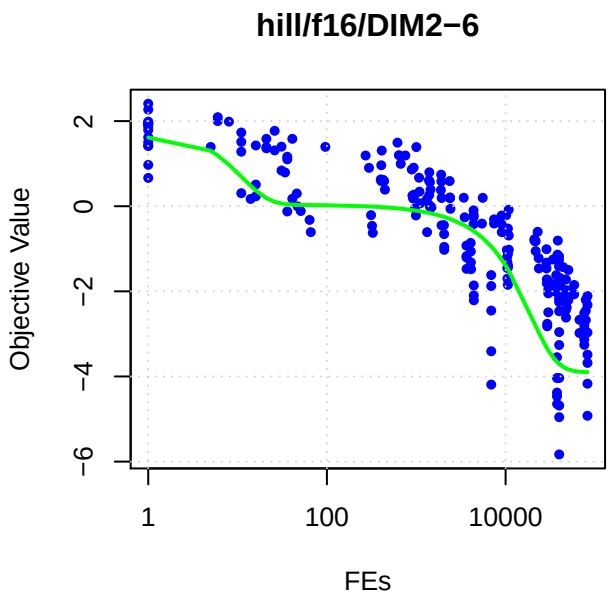
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Objective Value
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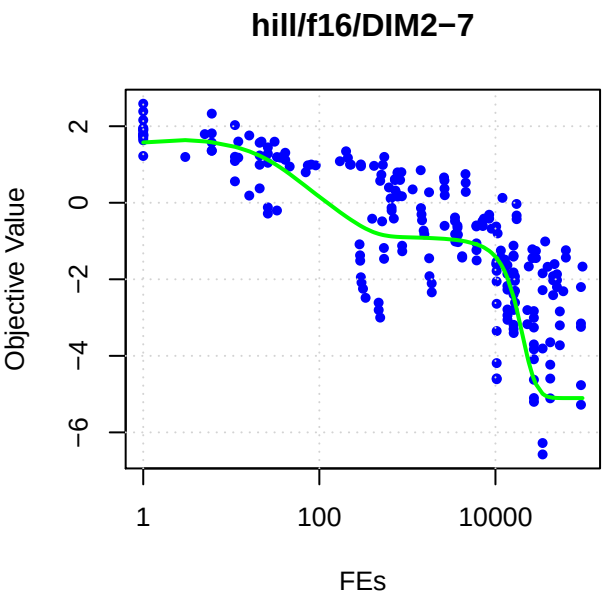
10000
FEs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Objective Value
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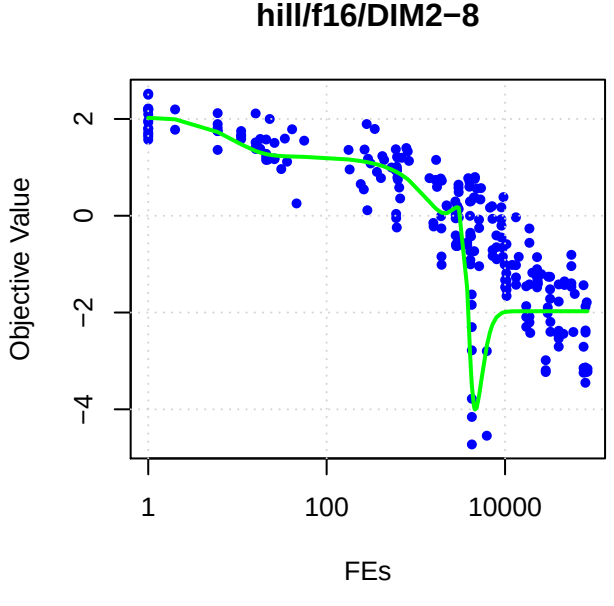
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Objective Value
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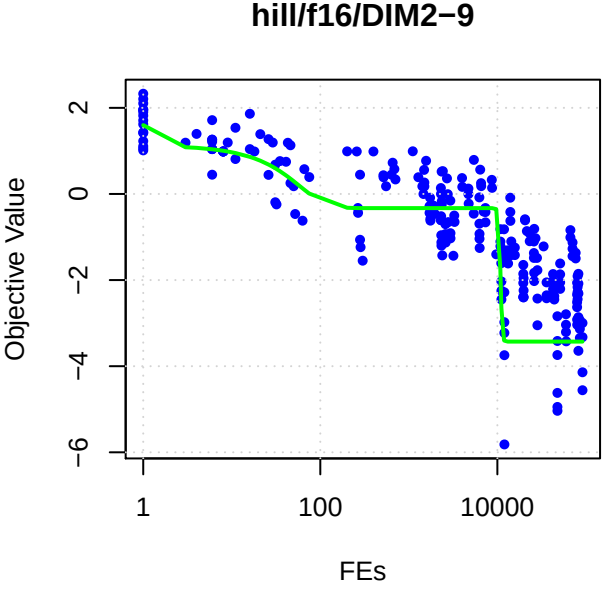
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Objective Value
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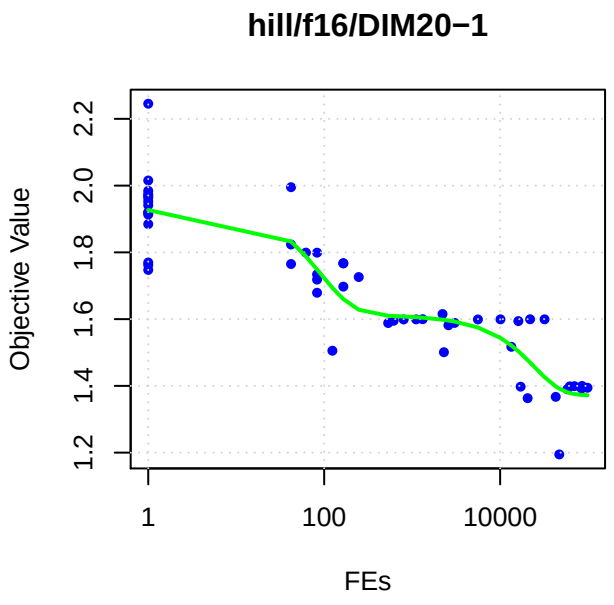
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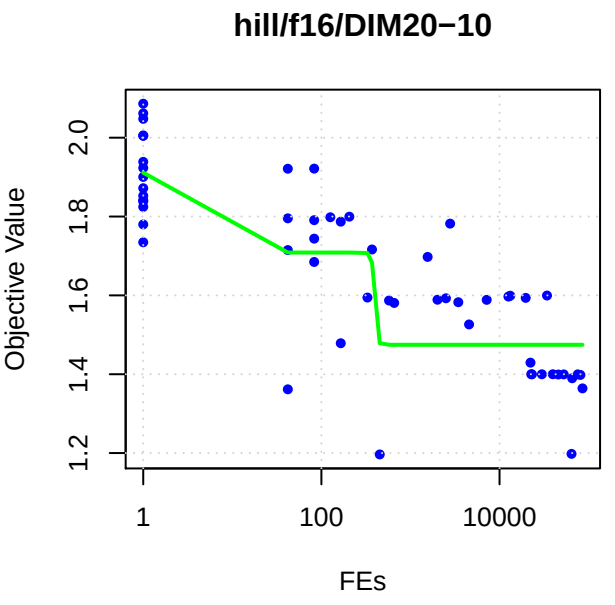
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Objective Value
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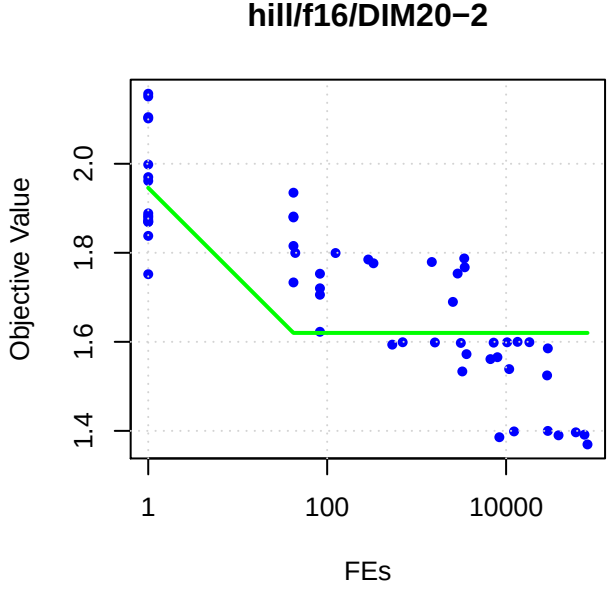
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Objective Value
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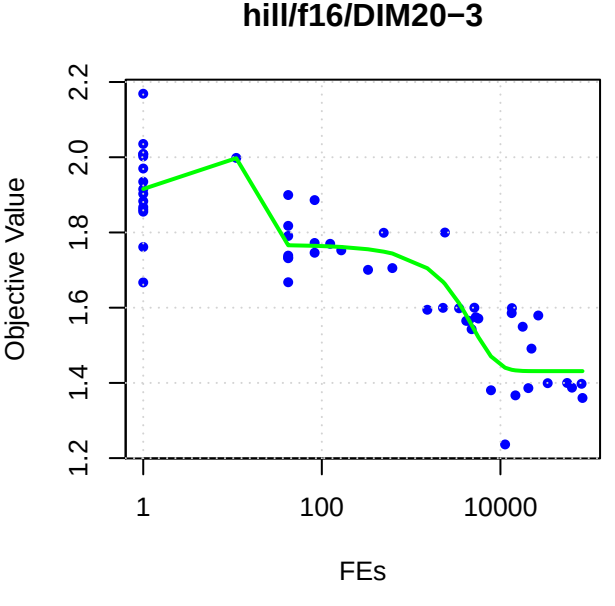
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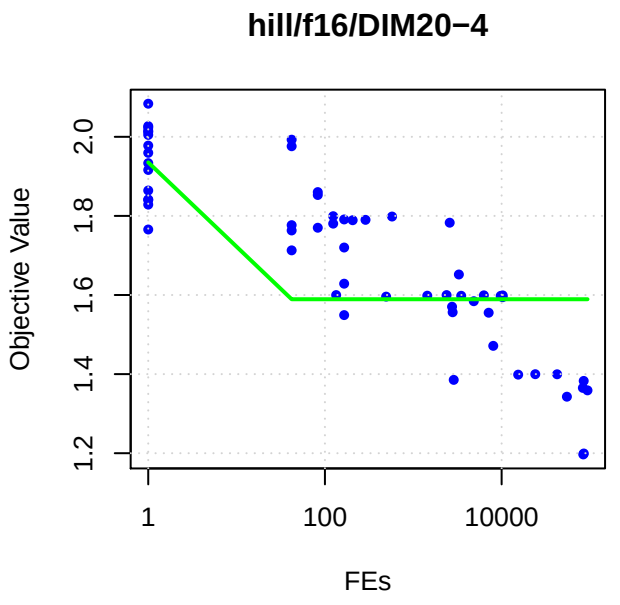
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Objective Value
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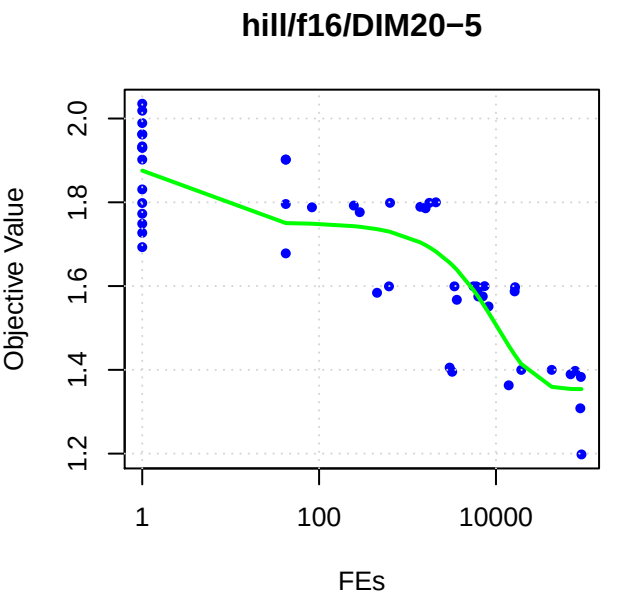
FEs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Objective Value
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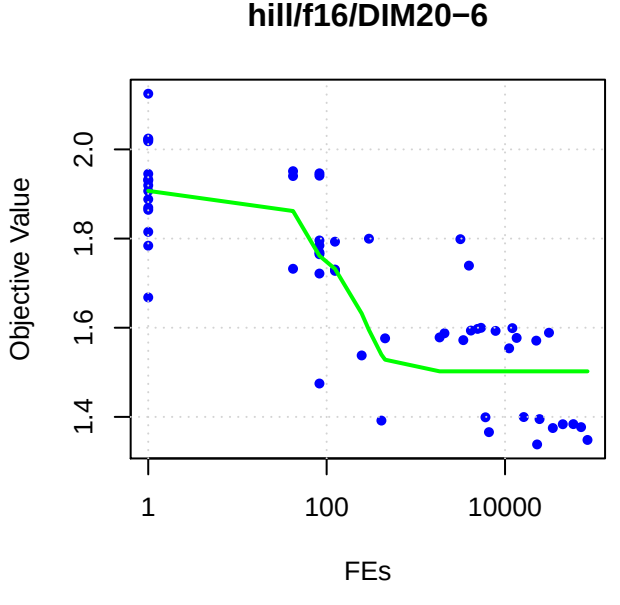
FEs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Objective Value
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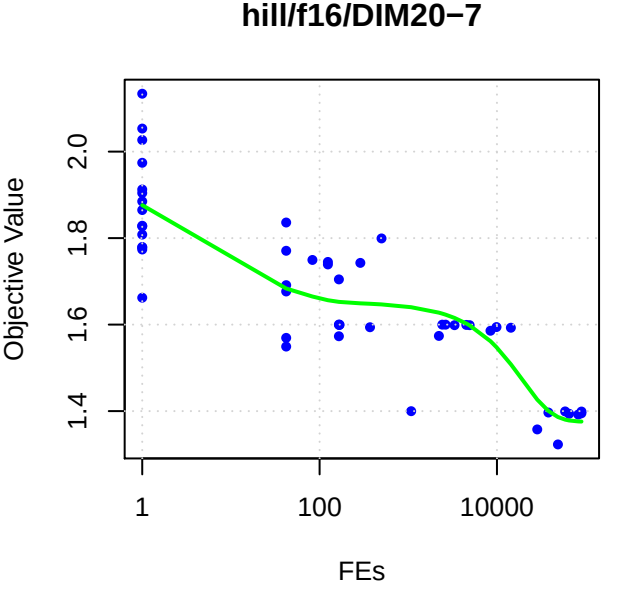
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Objective Value
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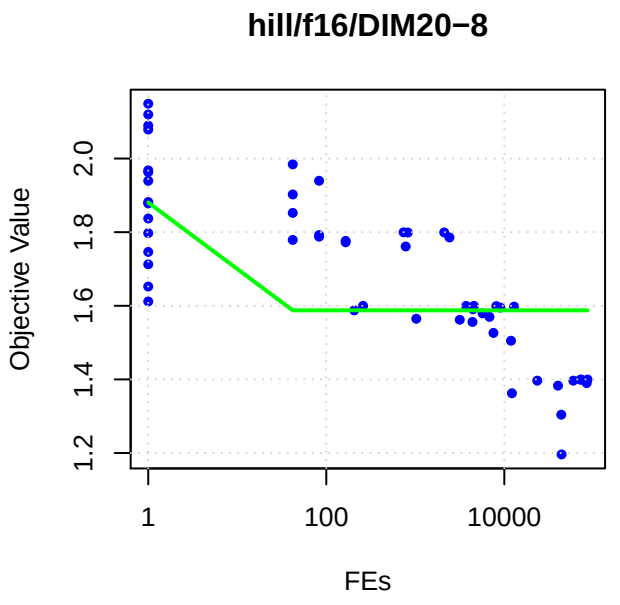
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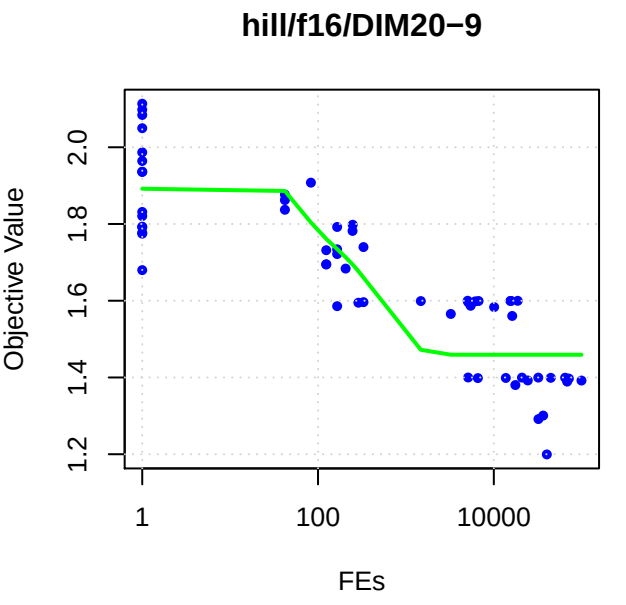
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Objective Value
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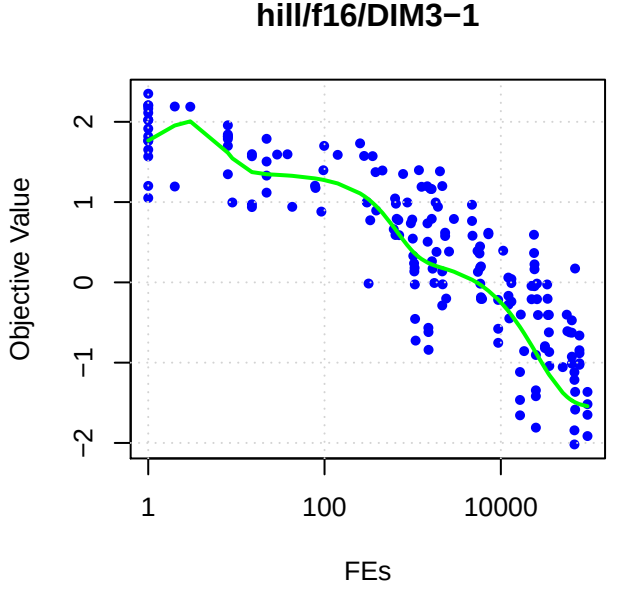
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Objective Value
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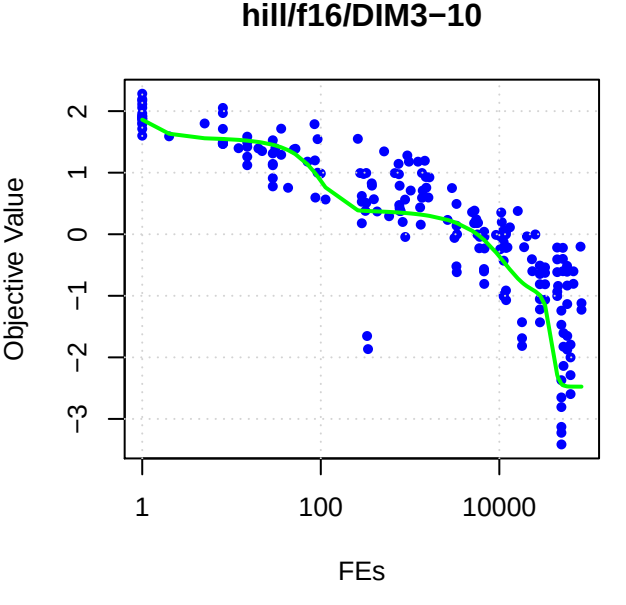
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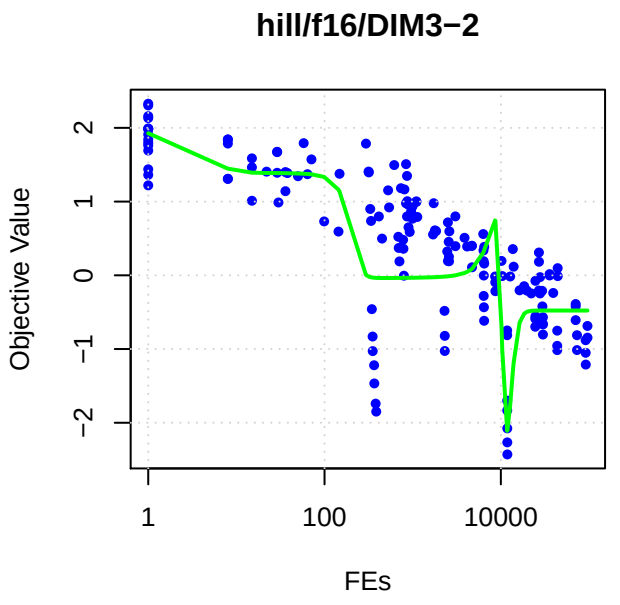
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Objective Value
FEs
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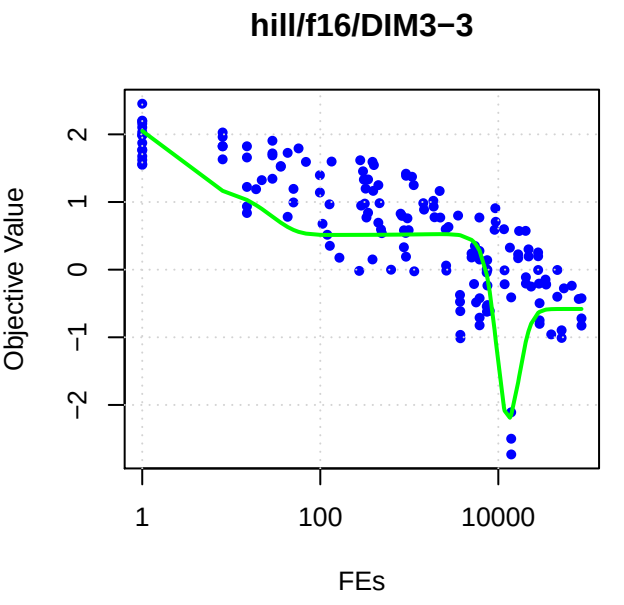
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Objective Value
FEs
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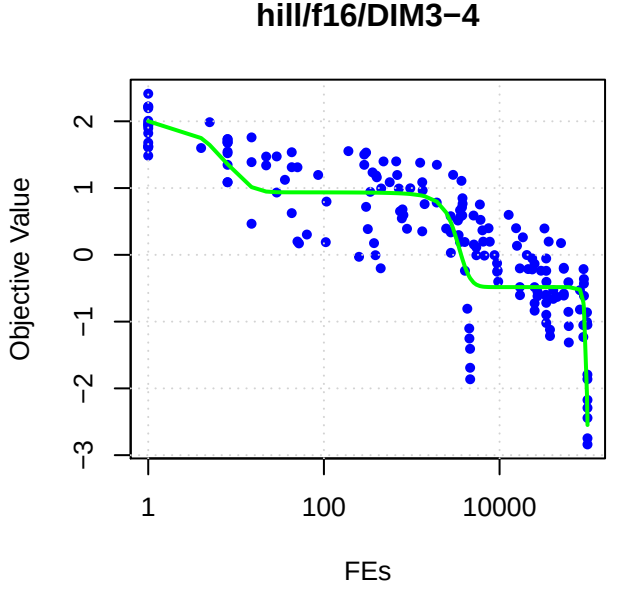
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Objective Value
FEs
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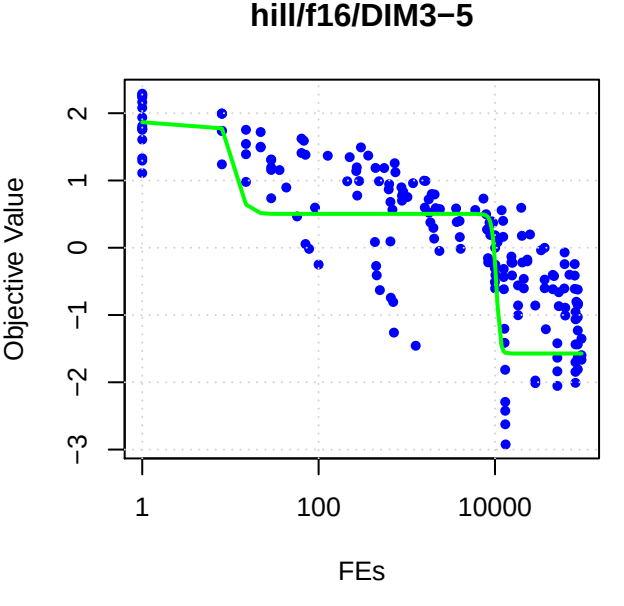
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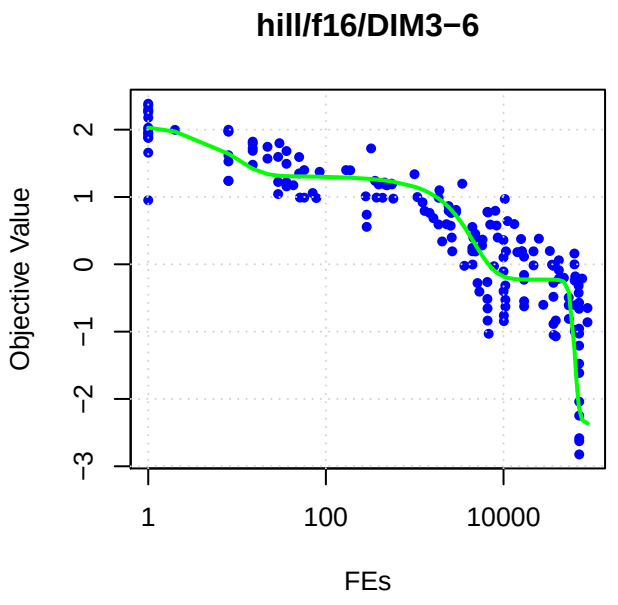
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FEs
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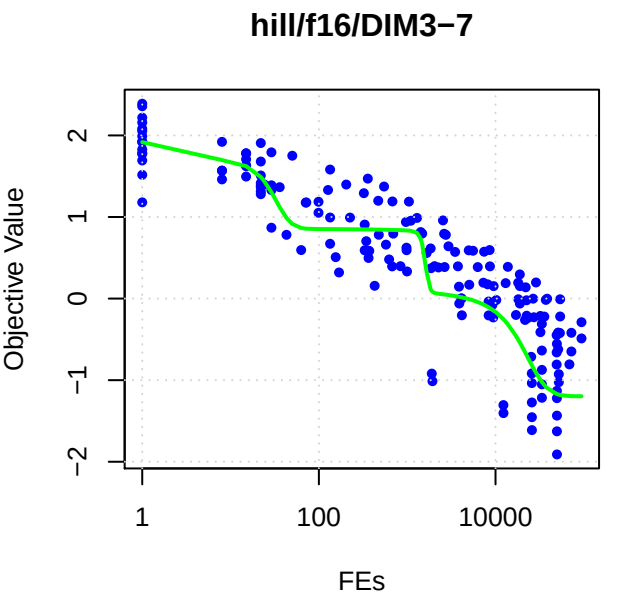
hill/f16/DIM3−7
Objective Value
FEs
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100
10000
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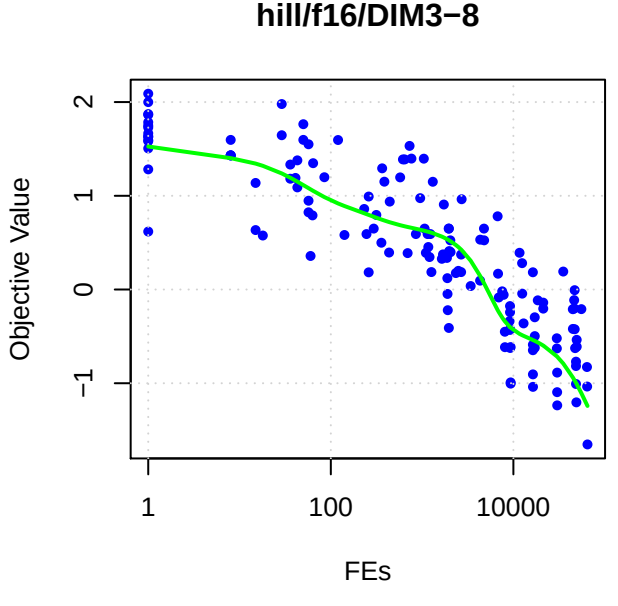
1
0
−1
−2


hill/f16/DIM3−8
Objective Value
FEs
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10000
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0
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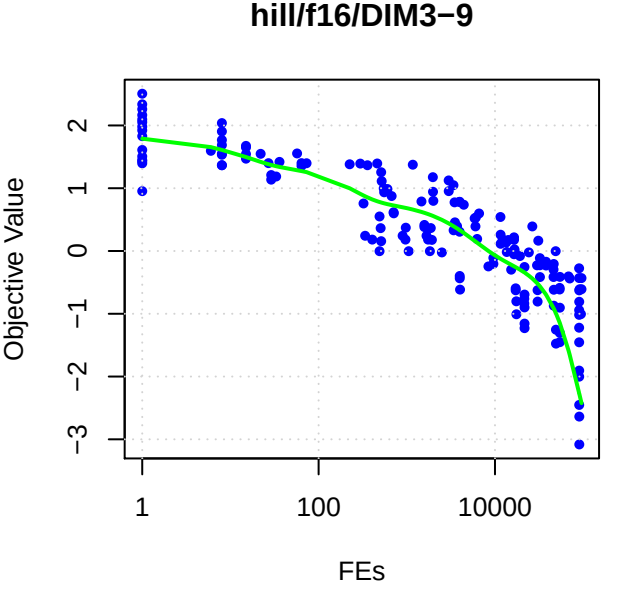
hill/f16/DIM3−9
Objective Value
FEs
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10000
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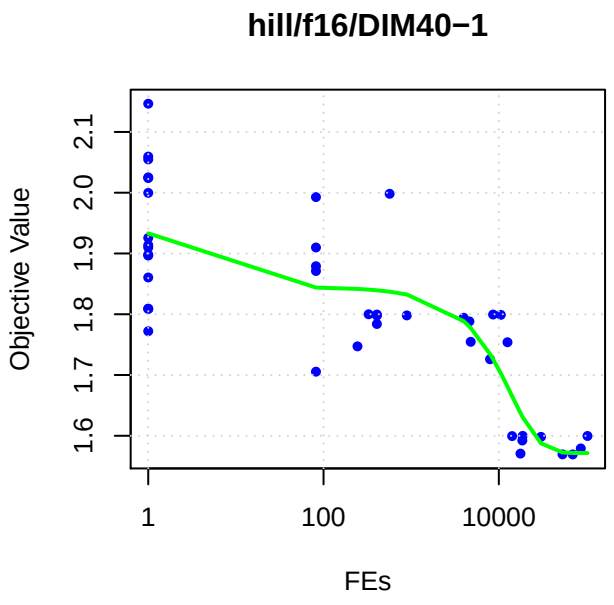
1
0
−1
−2
−3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Objective Value
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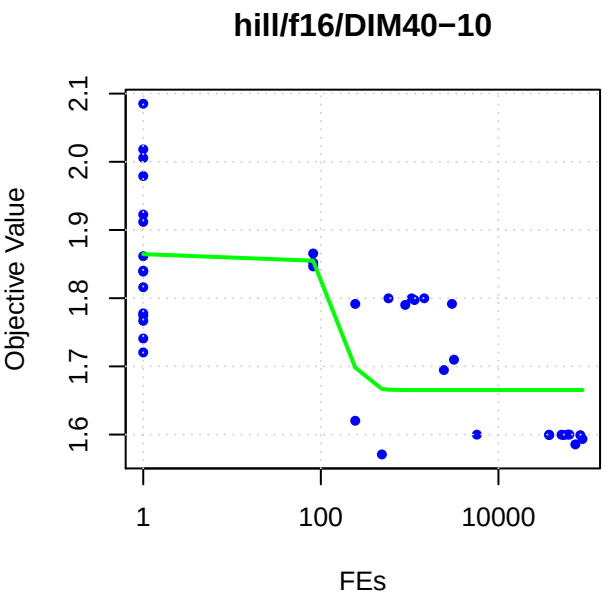
1.9
1.8
1.7
1.6
1
100
10000
FEs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Objective Value
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1.7
1.6
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100
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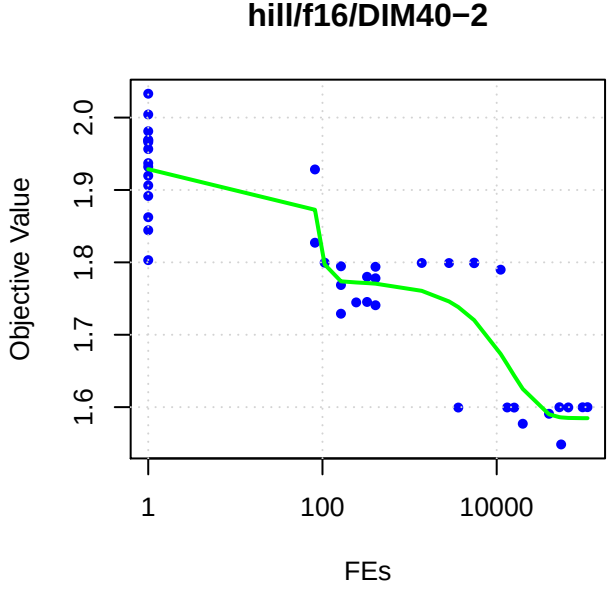
FEs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Objective Value
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1.8
1.7
1.6
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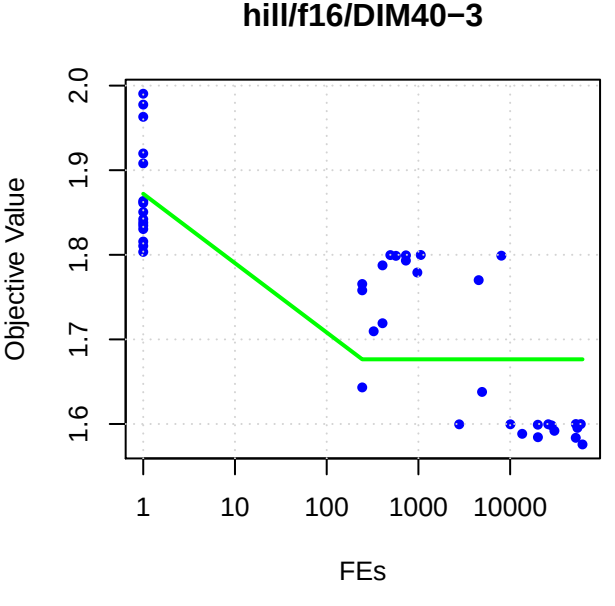
100
10000
FEs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Objective Value
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1.8
1.7
1.6
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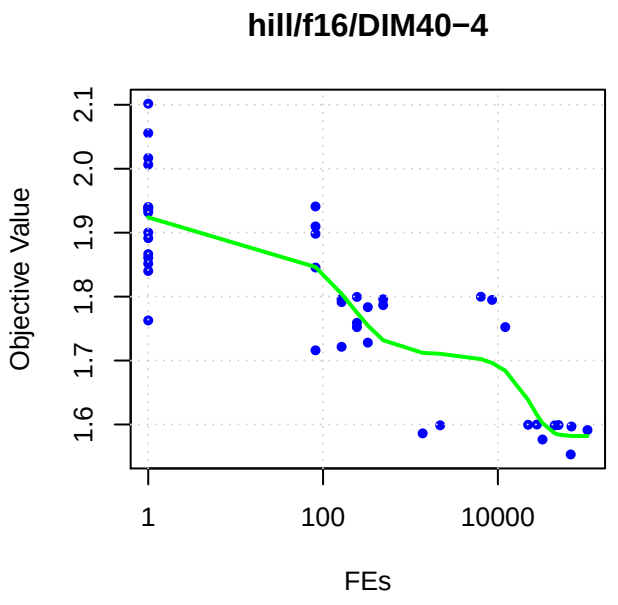
10
100
1000
10000
FEs


hill/f16/DIM40−4
Objective Value
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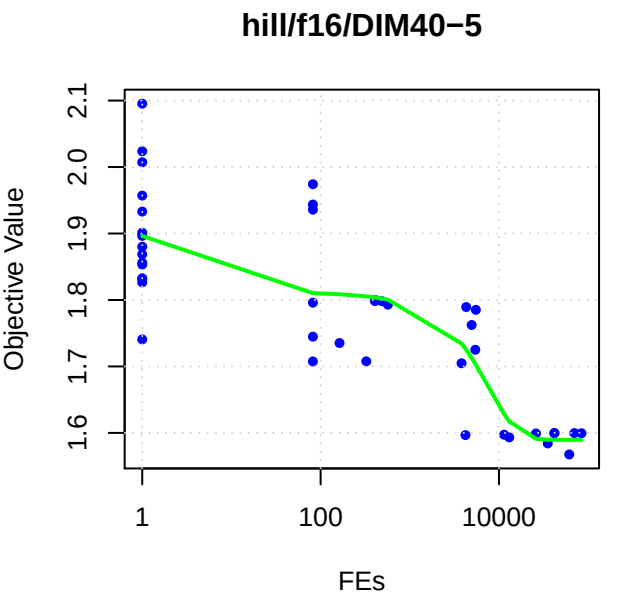
1.9
1.8
1.7
1.6
1
100
10000
FEs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Objective Value
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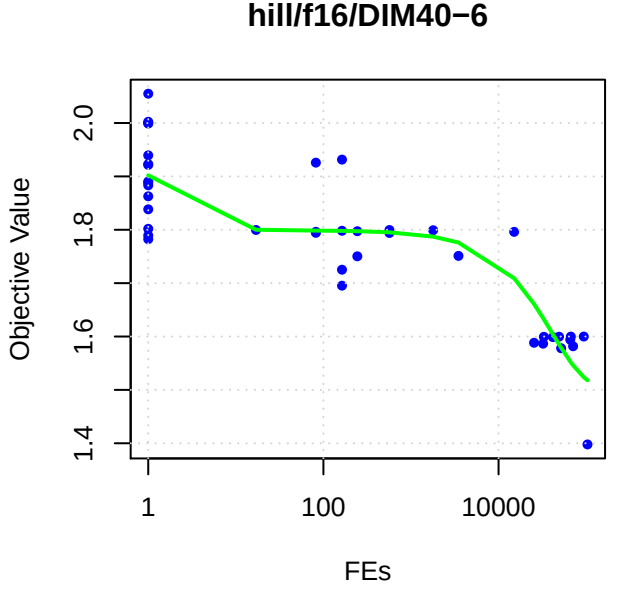
1.9
1.8
1.7
1.6
1
100
10000
FEs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Objective Value
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1.6
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1
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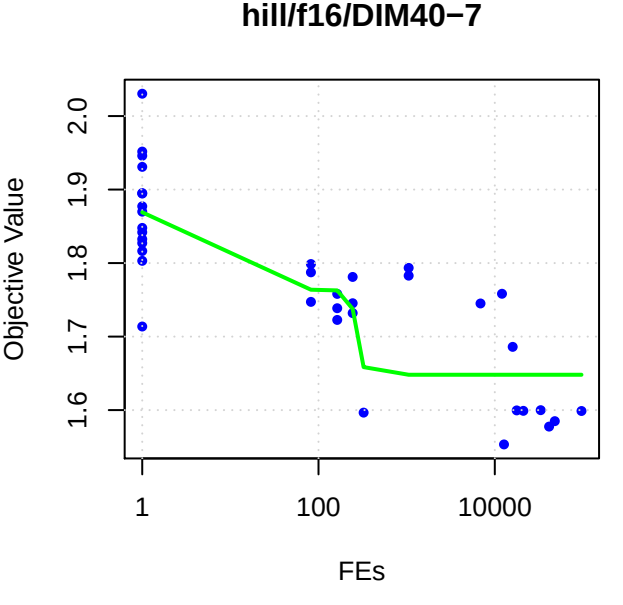
10000
FEs


hill/f16/DIM40−7
Objective Value
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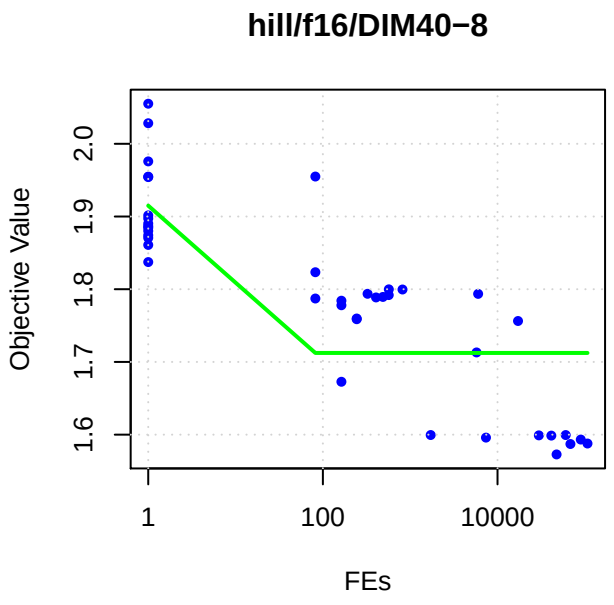
1.8
1.7
1.6
1
100
10000
FEs


hill/f16/DIM40−8
Objective Value
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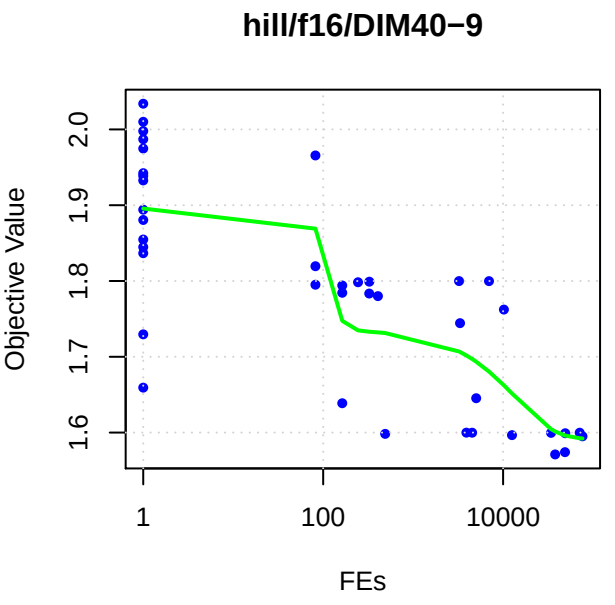
1.9
1.8
1.7
1.6
1
100
10000
FEs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Objective Value
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1.7
1.6
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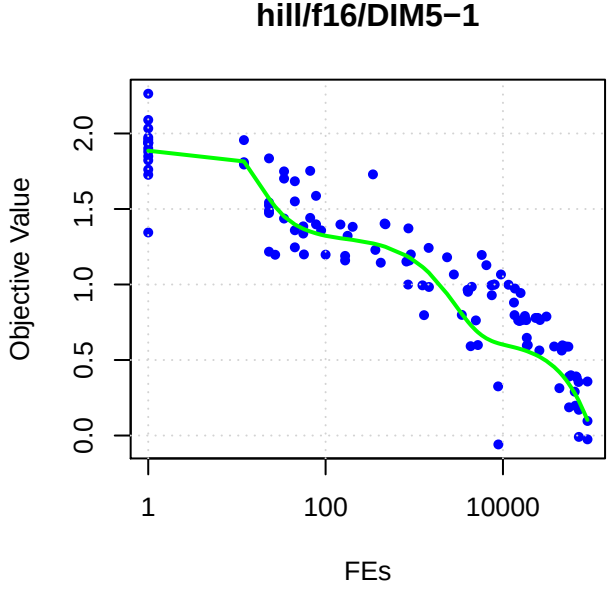
FEs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Objective Value
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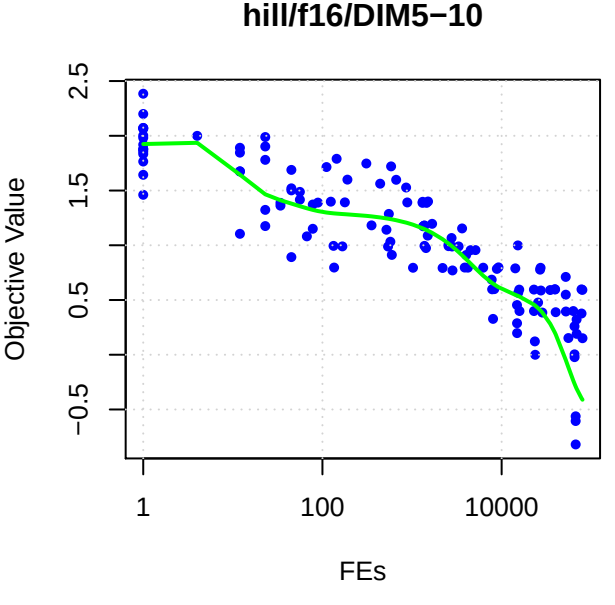
1
100
10000
FEs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Objective Value
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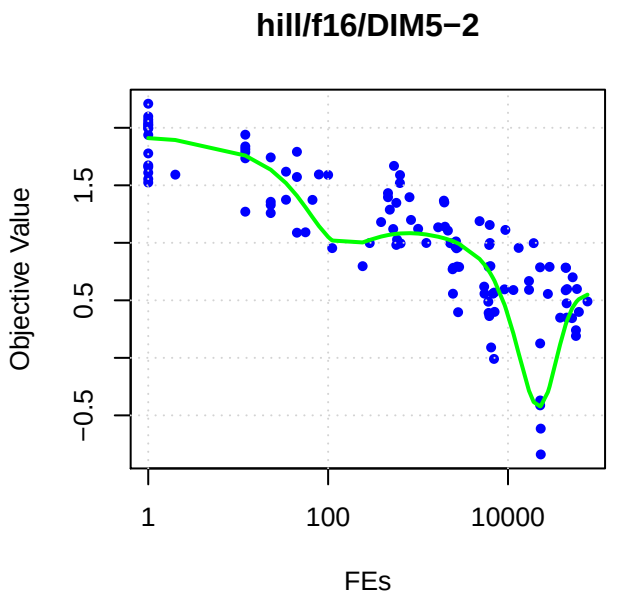
−0.5
1
100
10000
FEs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Objective Value
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100
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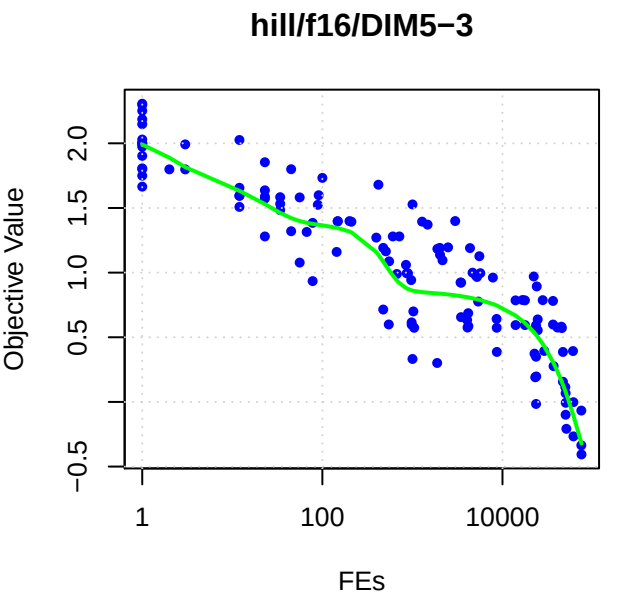
FEs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Objective Value
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2.0
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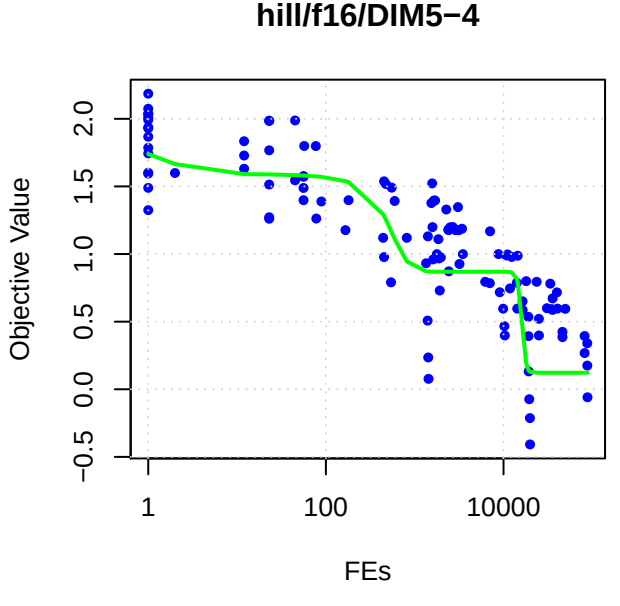
100
10000
FEs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Objective Value
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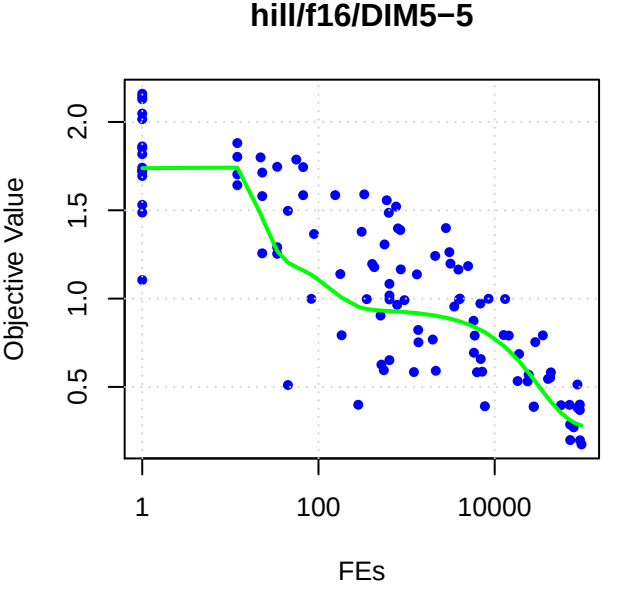
1.0
1.5
2.0
1
100
10000
FEs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2.0
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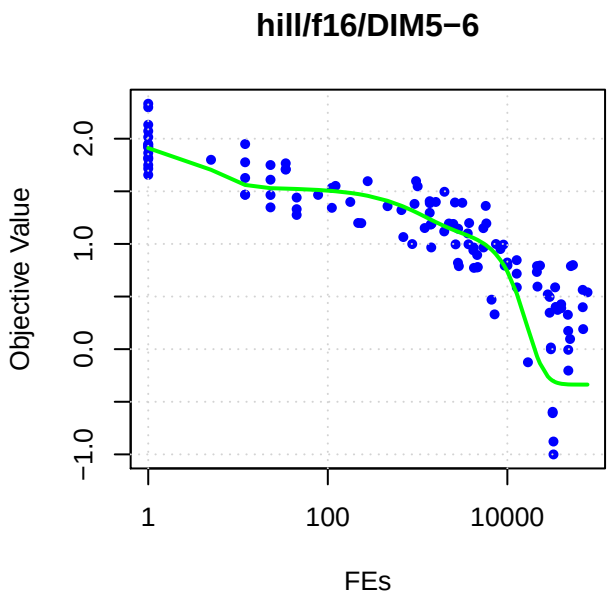
FEs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Objective Value
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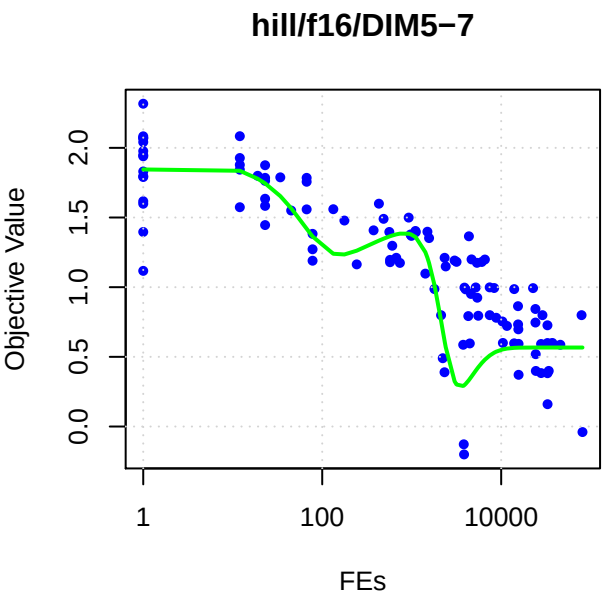
100
10000
FEs


hill/f16/DIM5−7
Objective Value
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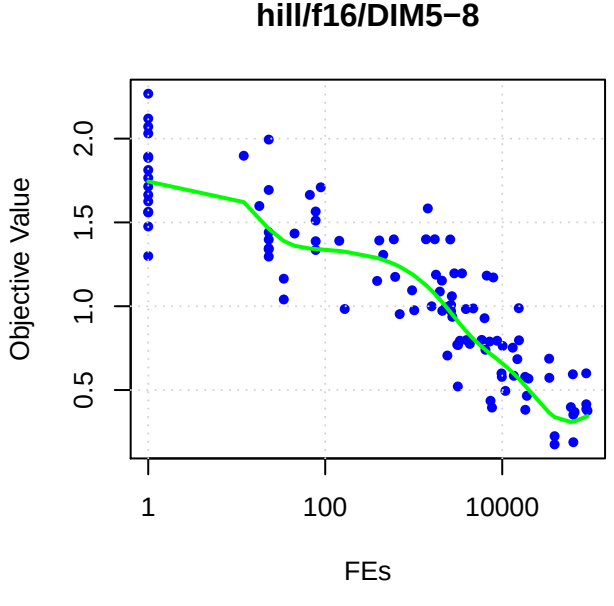
1.0
0.5
0.0
1
100
10000
FEs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Objective Value
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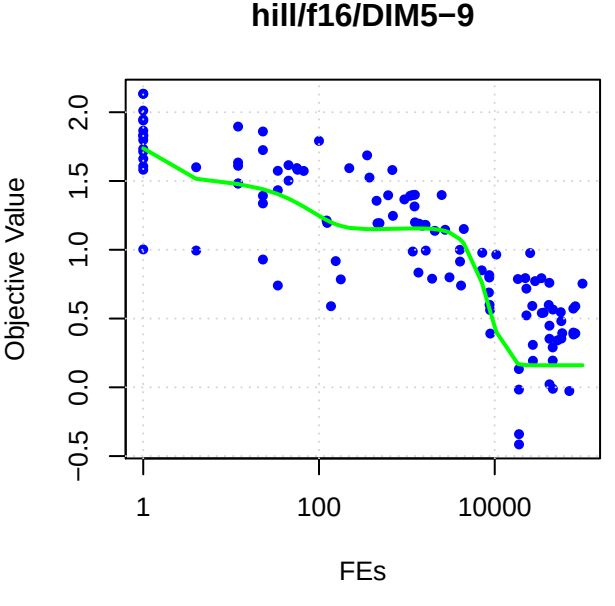
10000
FEs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Objective Value
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−0.5
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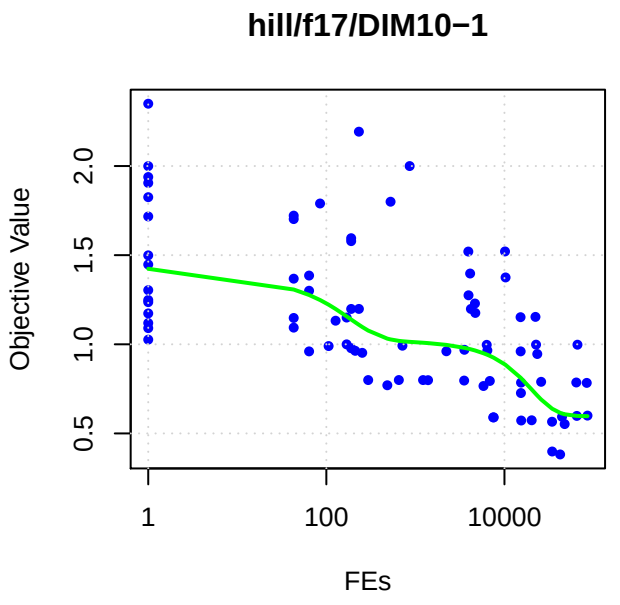
10000
FEs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Objective Value
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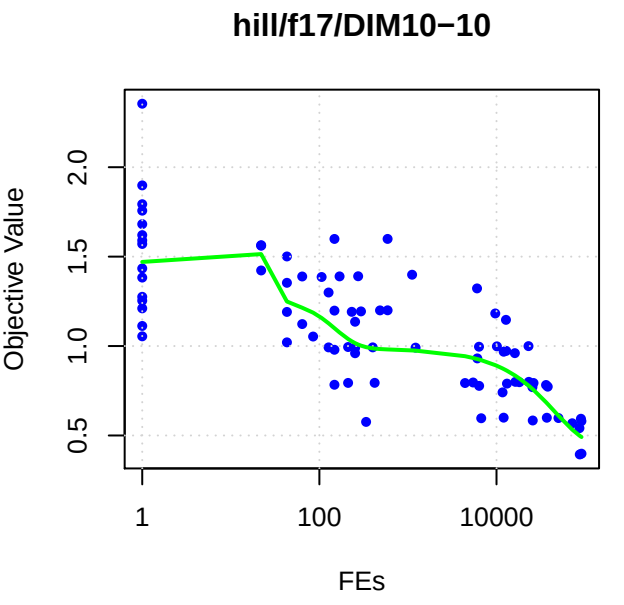
10000
FEs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Objective Value
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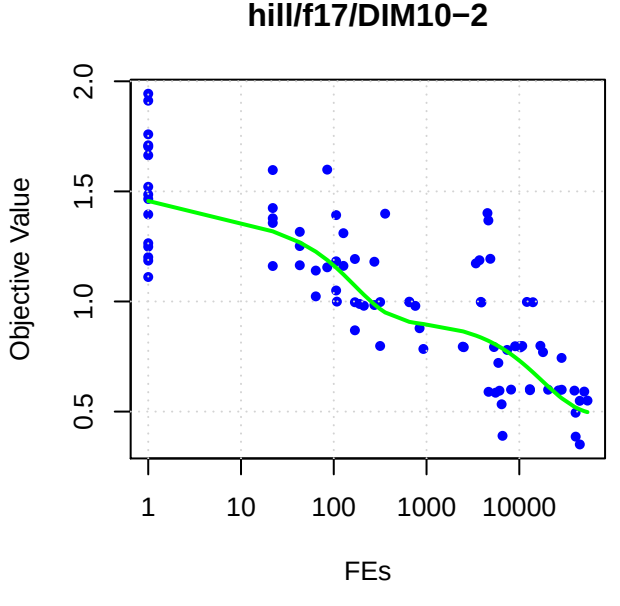
FEs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2.0
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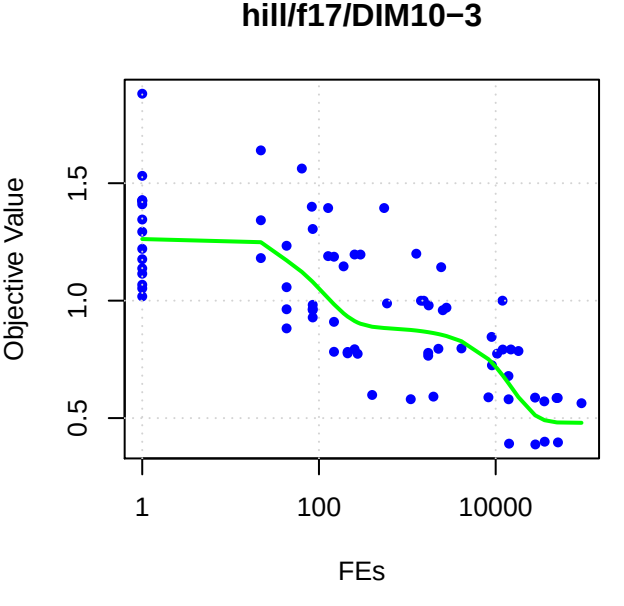
1000
10000
FEs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Objective Value
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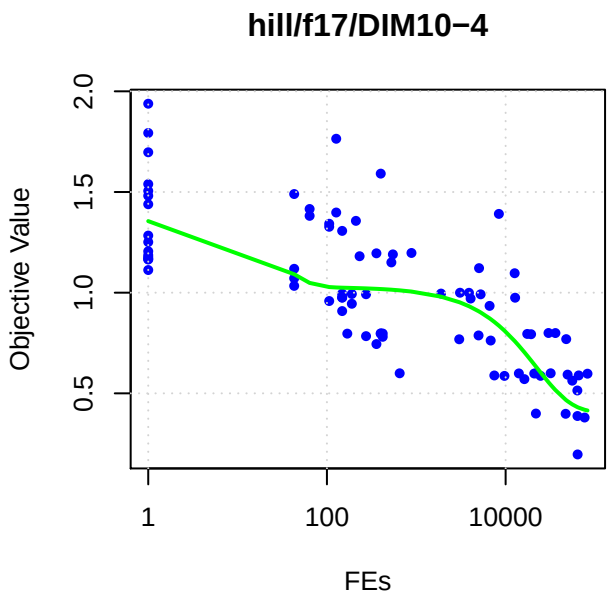
10000
FEs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Objective Value
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1.5
2.0
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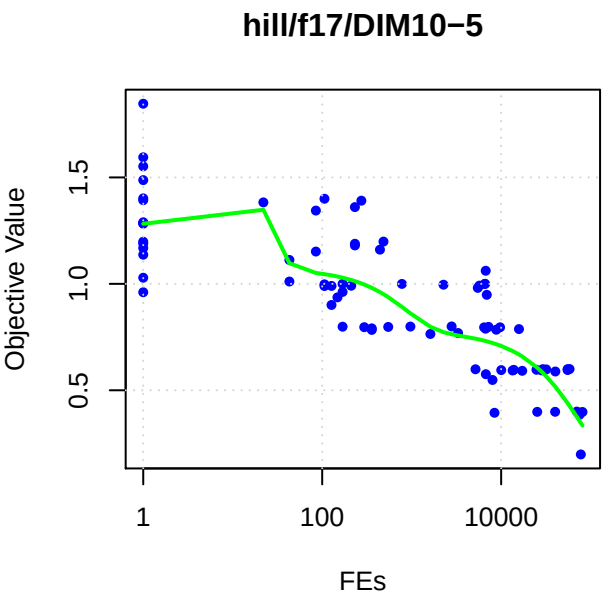
10000
FEs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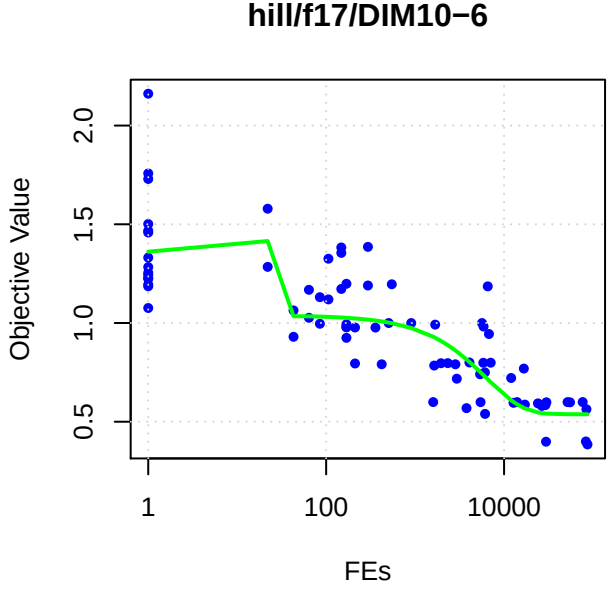
FEs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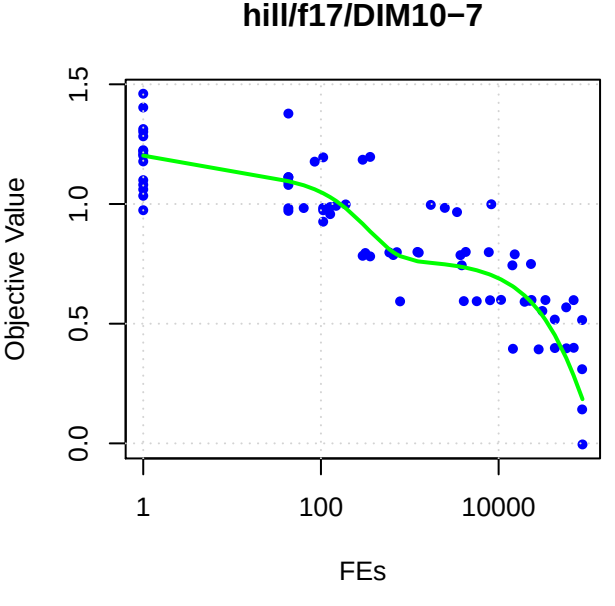
FEs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Objective Value
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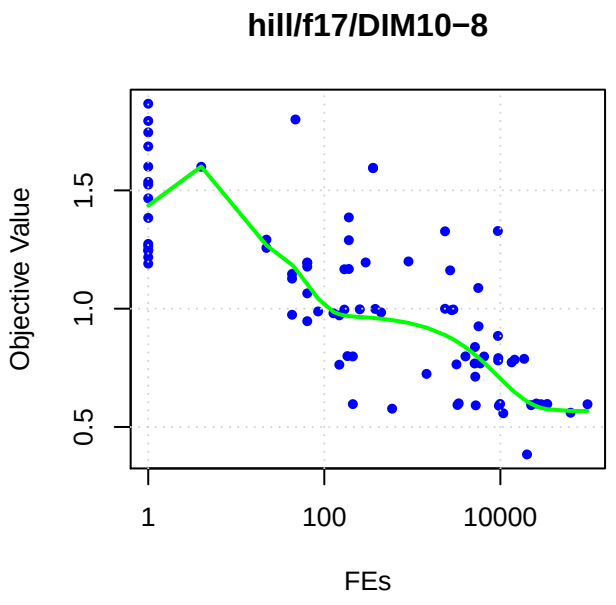
FEs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Objective Value
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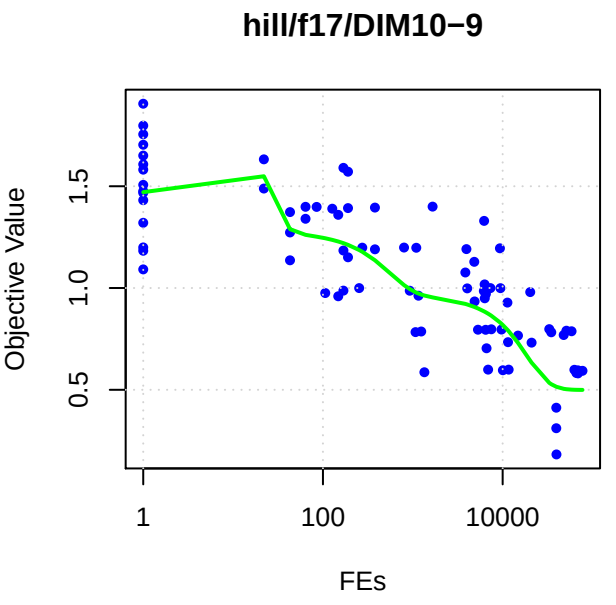
FEs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Objective Value
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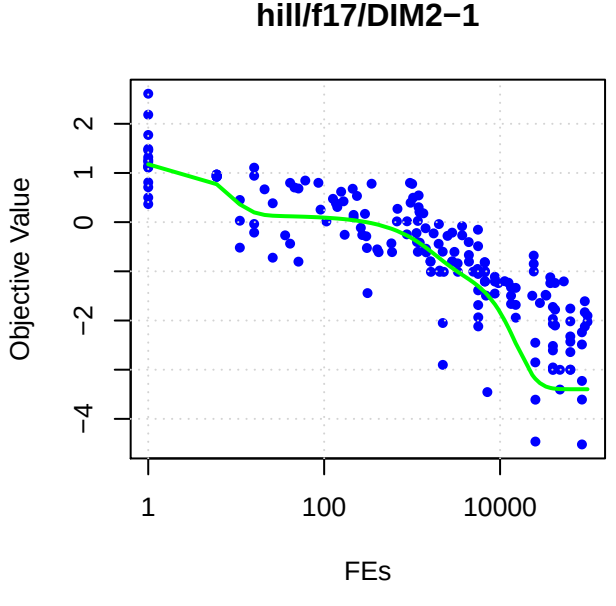
FEs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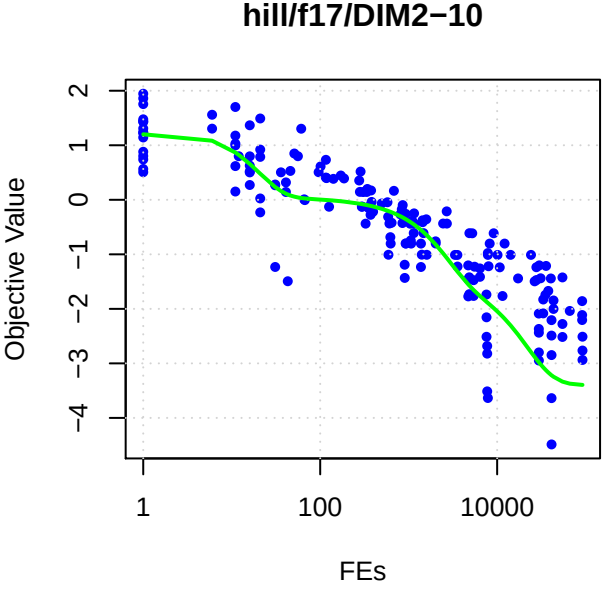
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Objective Value
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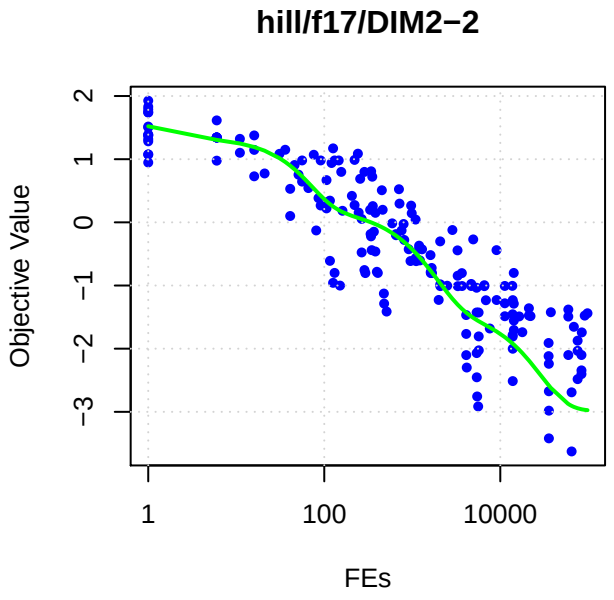
FEs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Objective Value
FEs
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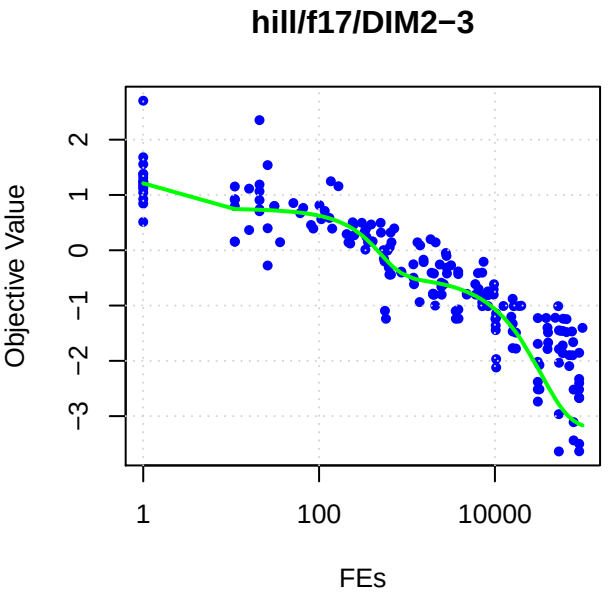
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Objective Value
FEs
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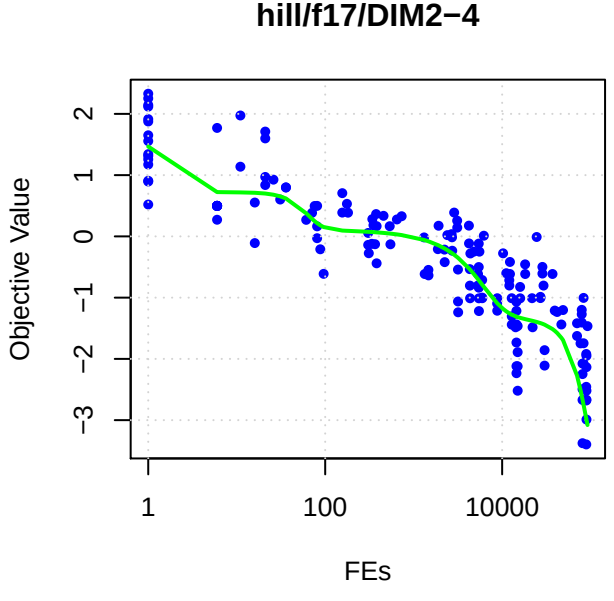
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Objective Value
FEs
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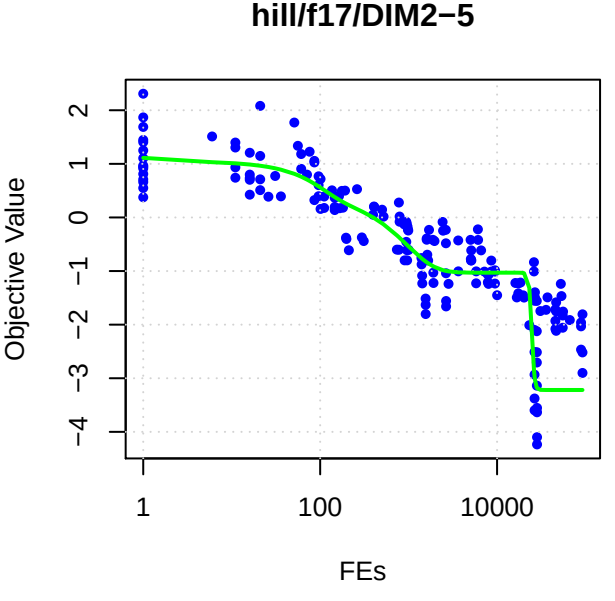
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Objective Value
FEs
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−1
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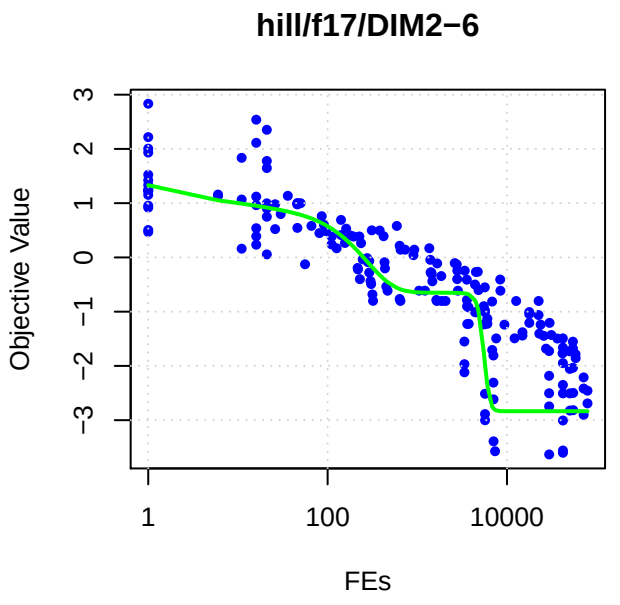
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Objective Value
FEs
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10000
3
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−2
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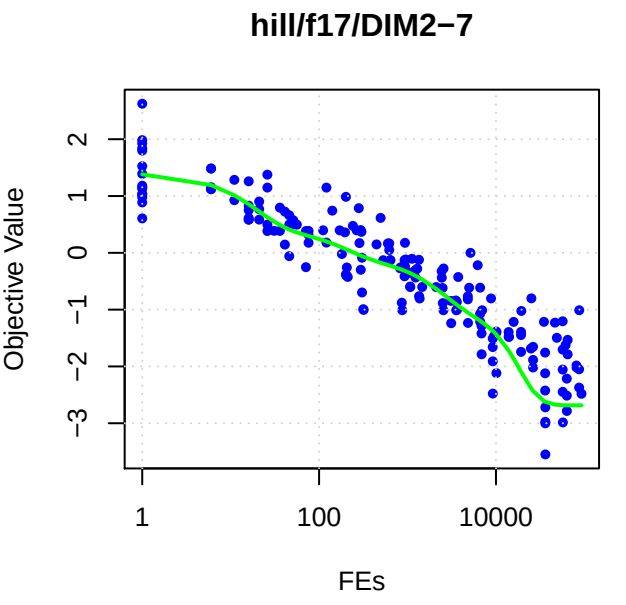
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Objective Value
FEs
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2
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−1
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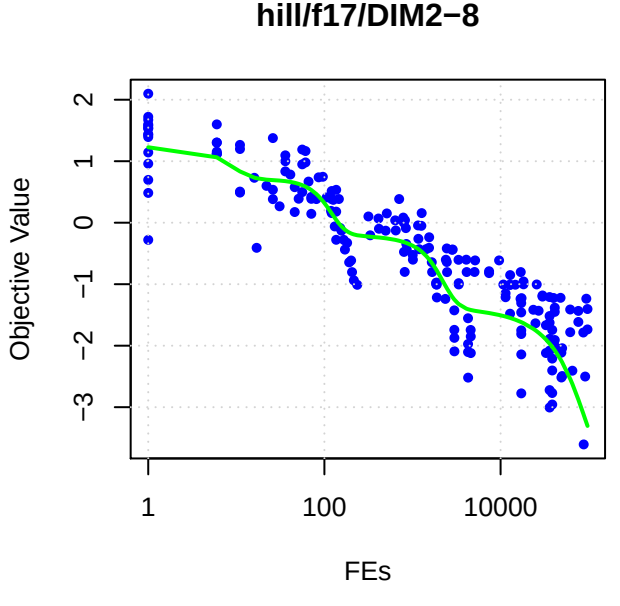
hill/f17/DIM2−8
Objective Value
FEs
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10000
2
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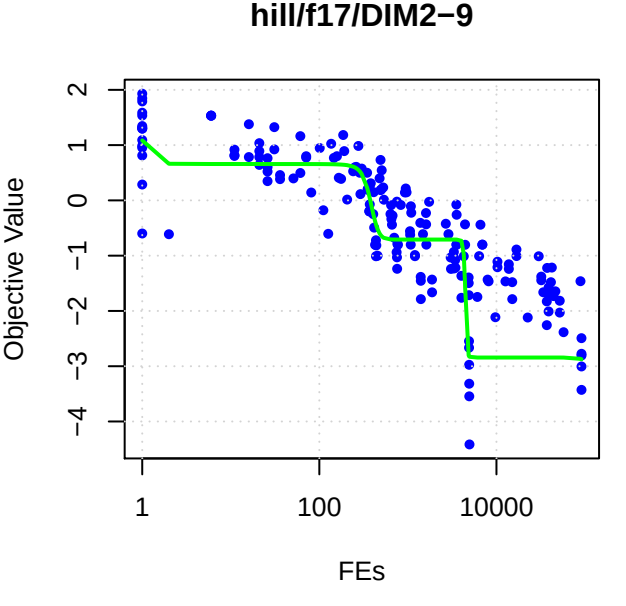
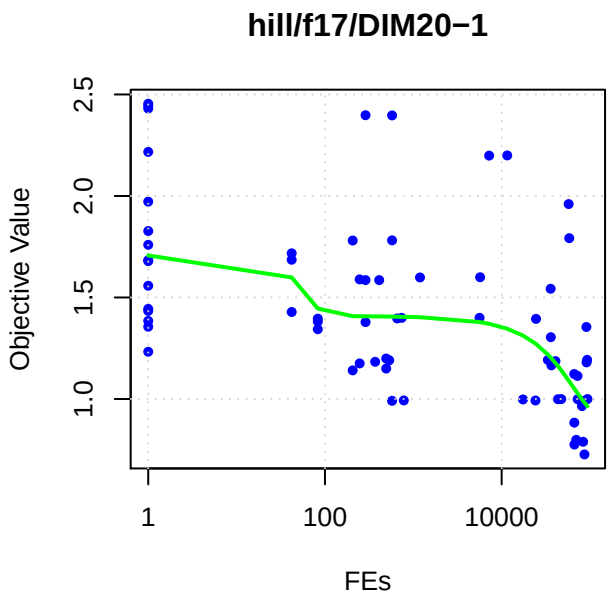
−2
−3


hill/f17/DIM2−9
Objective Value
FEs
1
100
10000
2
1
0
−1
−2
−3
−4


hill/f17/DIM20−1
Objective Value
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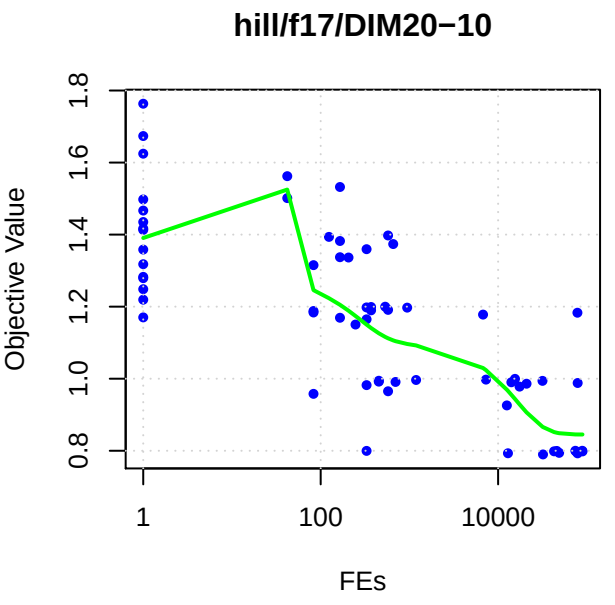
1.5
1.0
1
100
10000
FEs


hill/f17/DIM20−10
Objective Value
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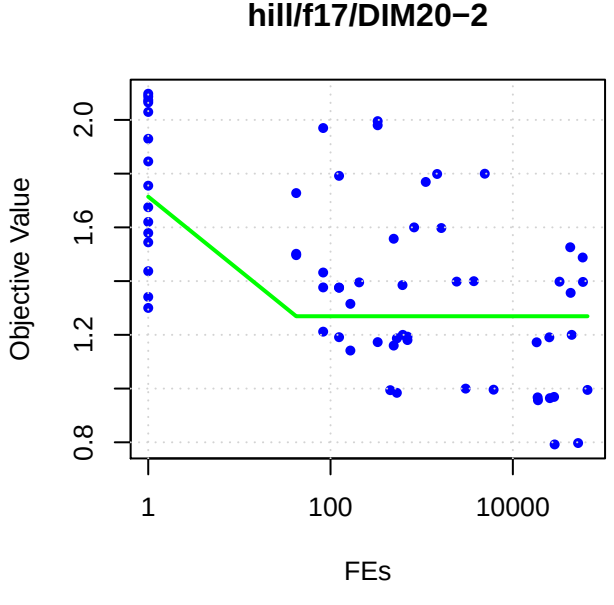
1.6
1.4
1.2
1.0
0.8
1
100
10000
FEs


hill/f17/DIM20−2
Objective Value
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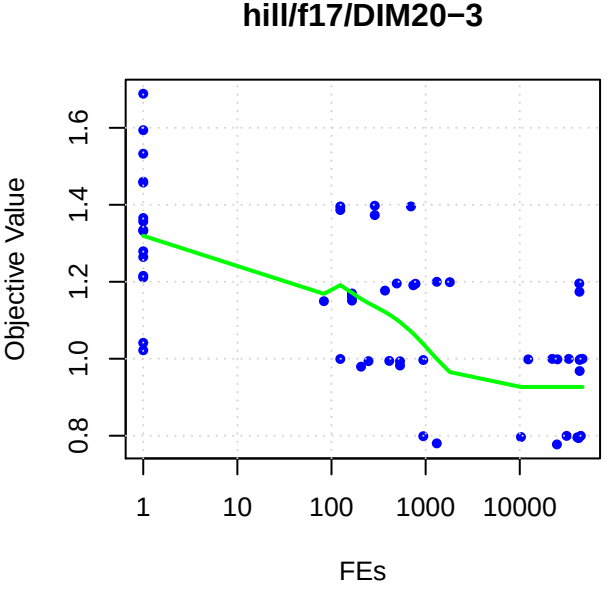
1.6
1.2
0.8
1
100
10000
FEs


hill/f17/DIM20−3
Objective Value
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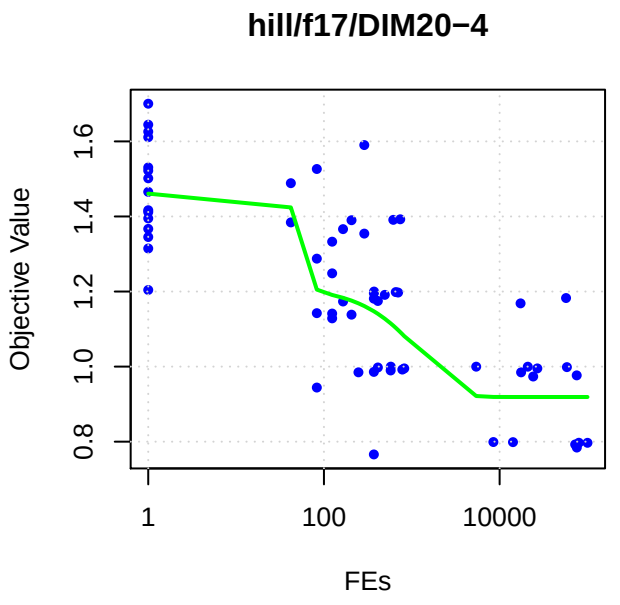
1.4
1.2
1.0
0.8
1
10
100
1000
10000
FEs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Objective Value
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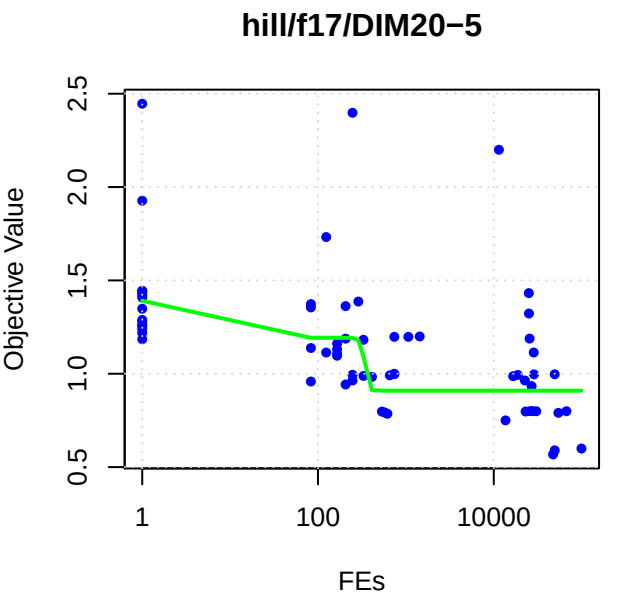
1.0
1.2
1.4
1.6
1
100
10000
FEs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Objective Value
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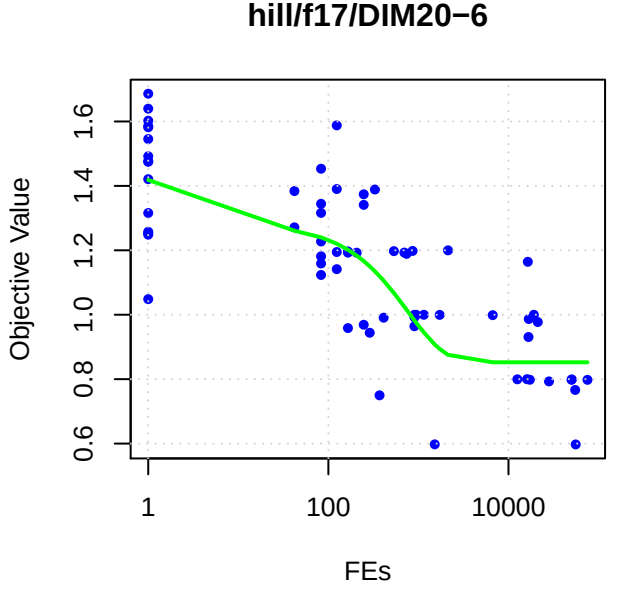
2.0
2.5
1
100
10000
FEs


hill/f17/DIM20−6
Objective Value
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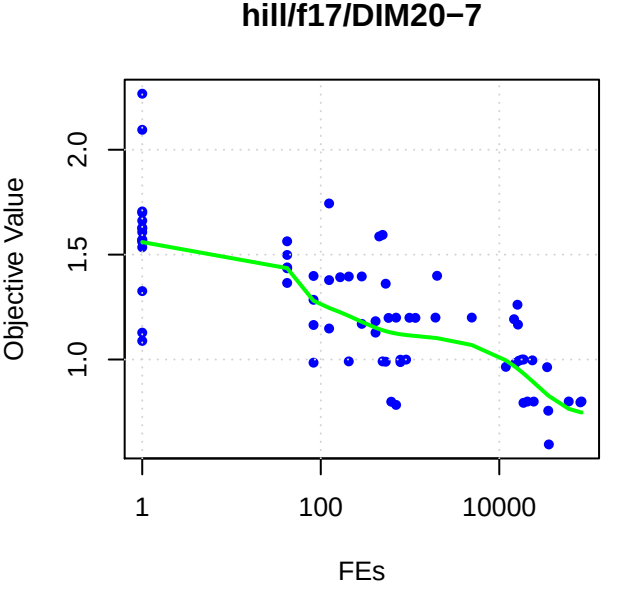
0.8
1.0
1.2
1.4
1.6
1
100
10000
FEs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Objective Value
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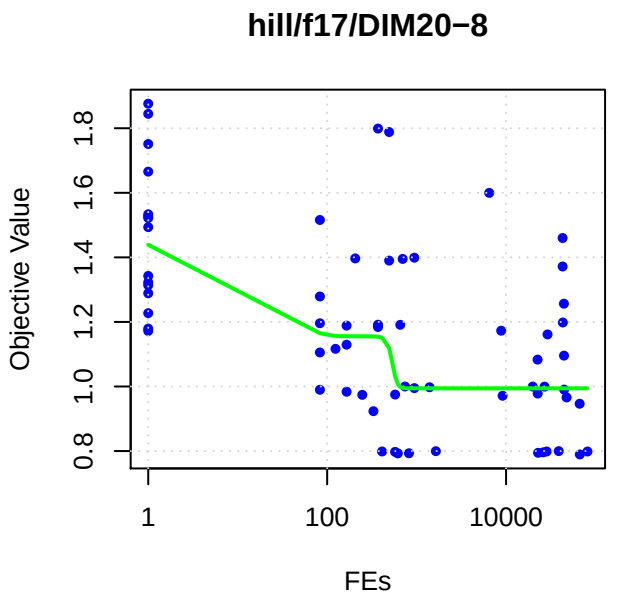
1.5
2.0
1
100
10000
FEs


hill/f17/DIM20−8
Objective Value
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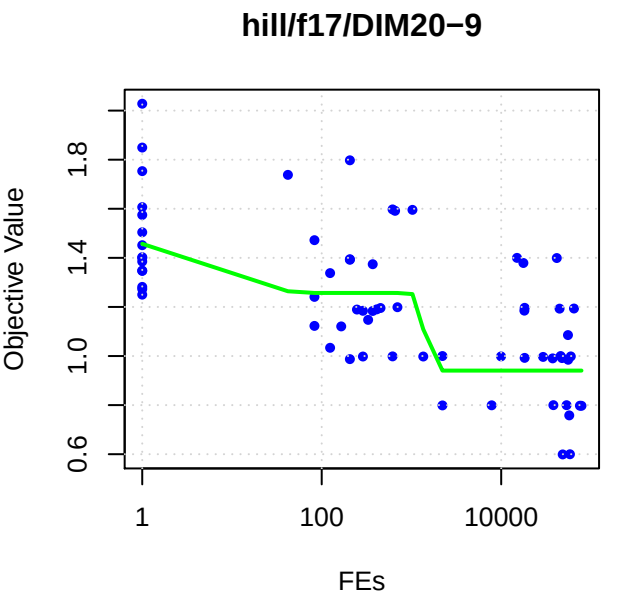
1.0
1.2
1.4
1.6
1.8
1
100
10000
FEs


hill/f17/DIM20−9
Objective Value
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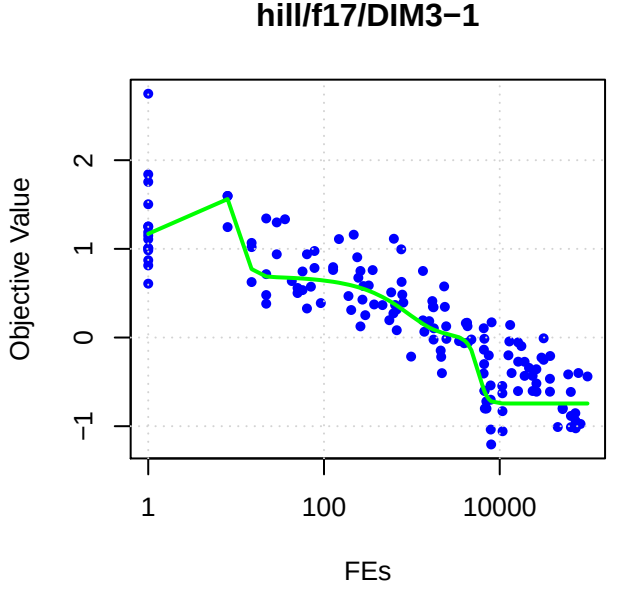
1.0
1.4
1.8
1
100
10000
FEs


hill/f17/DIM3−1
Objective Value
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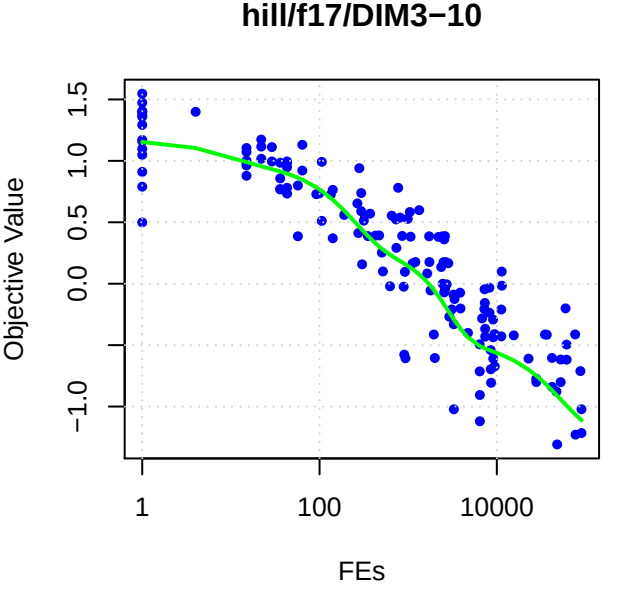
2
1
100
10000
FEs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Objective Value
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0.0
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1.0
1.5
1
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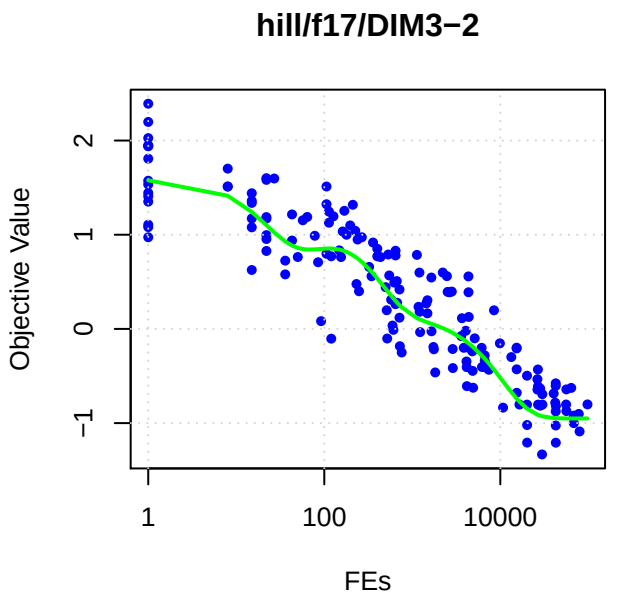
10000
FEs


hill/f17/DIM3−2
Objective Value
FEs
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10000
−1
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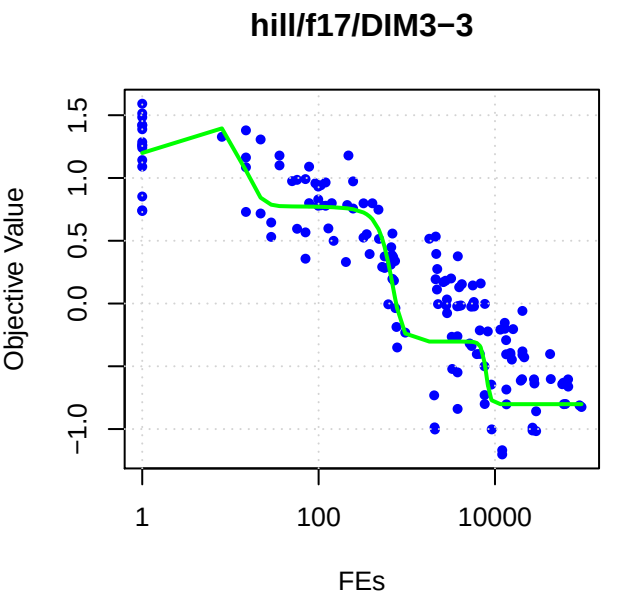
1
2


hill/f17/DIM3−3
Objective Value
FEs
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10000
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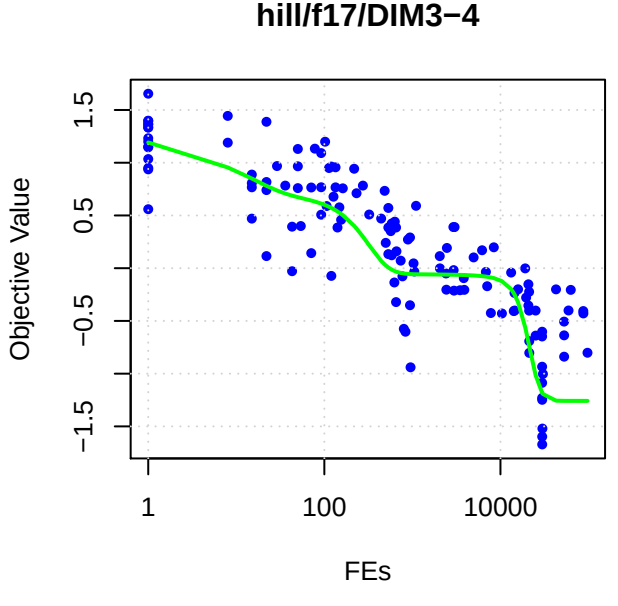
1.5


hill/f17/DIM3−4
Objective Value
FEs
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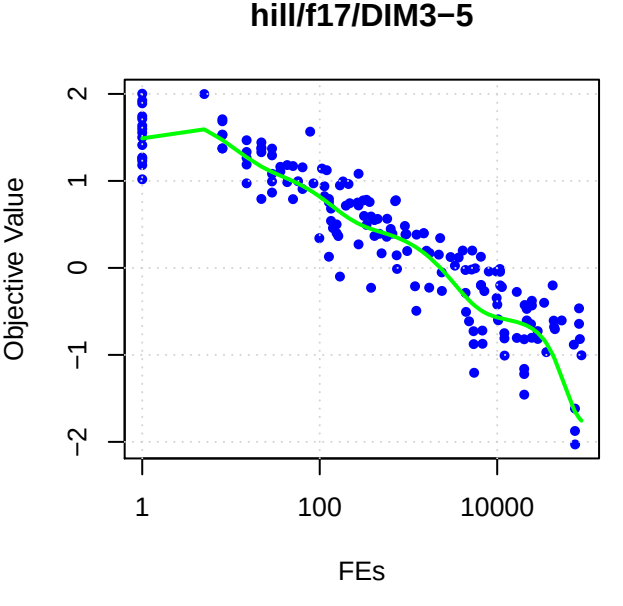
10000
−1.5
−0.5
0.5
1.5


hill/f17/DIM3−5
Objective Value
FEs
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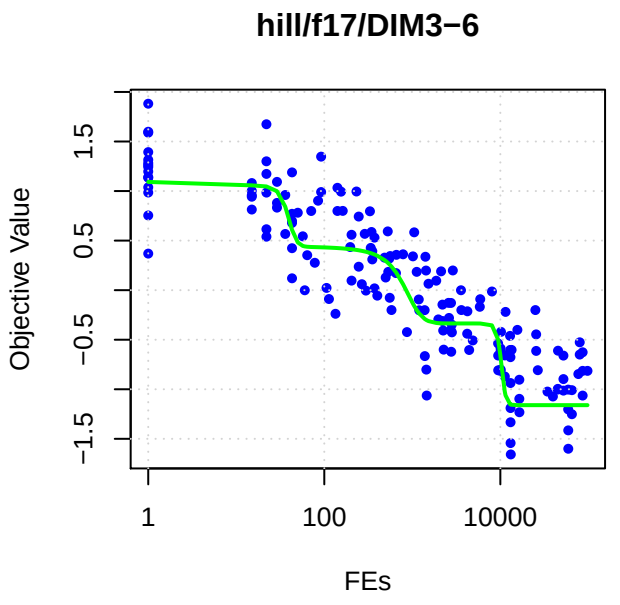
100
10000
−2
−1
0
1
2


hill/f17/DIM3−6
Objective Value
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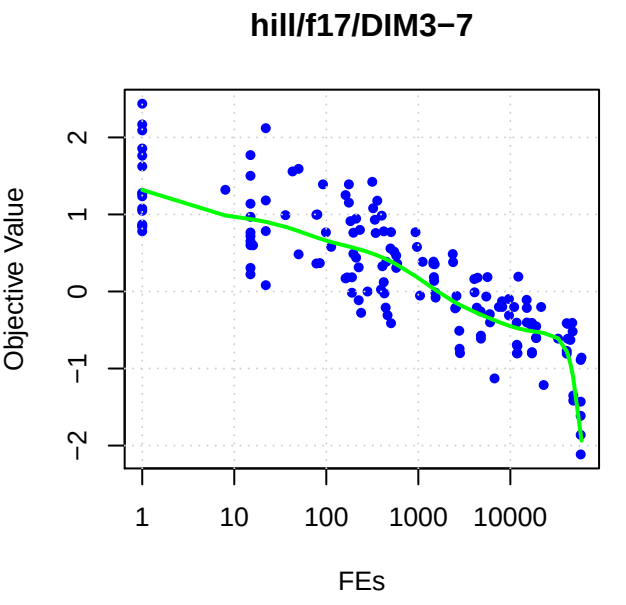
0.5
−0.5
−1.5
1
100
10000
FEs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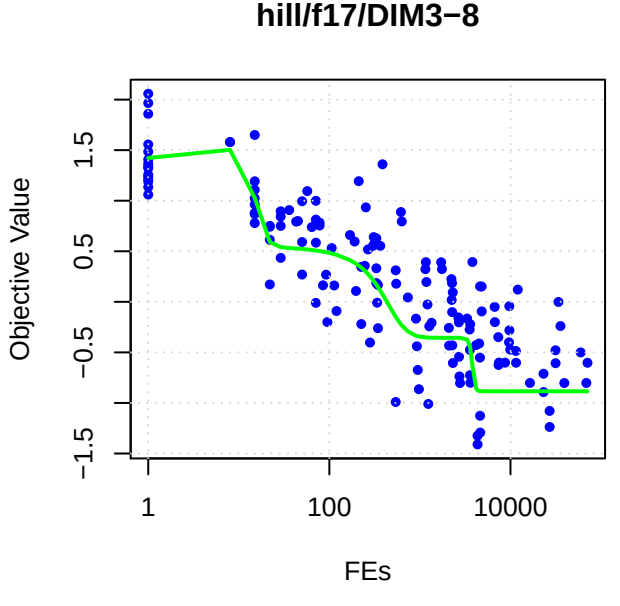
Objective Value
2
1
0
−1
−2
1
10
100
1000
10000
FEs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Objective Value
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0.5
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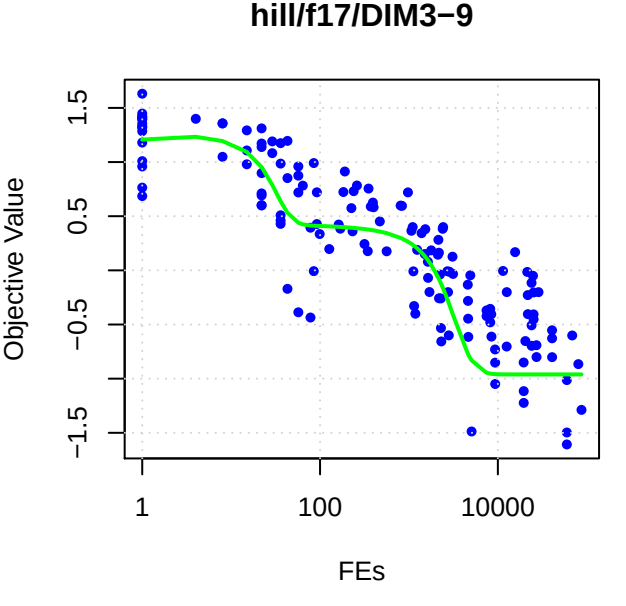
−1.5
1
100
10000
FEs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Objective Value
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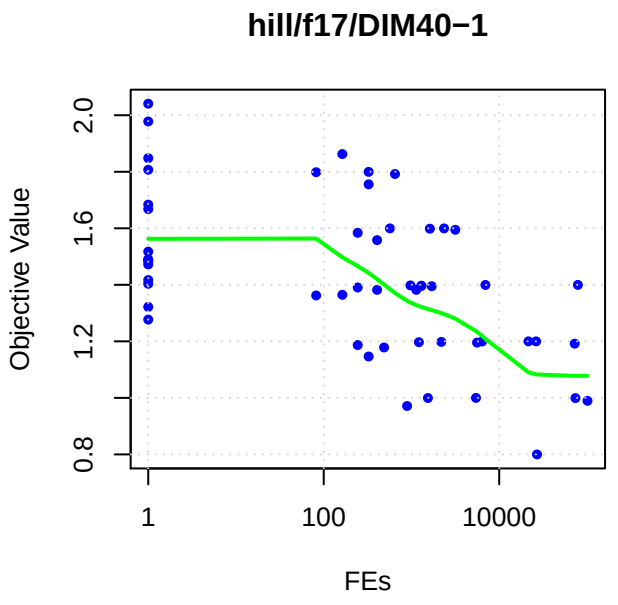
0.5
−0.5
−1.5
1
100
10000
FEs


hill/f17/DIM40−1
Objective Value
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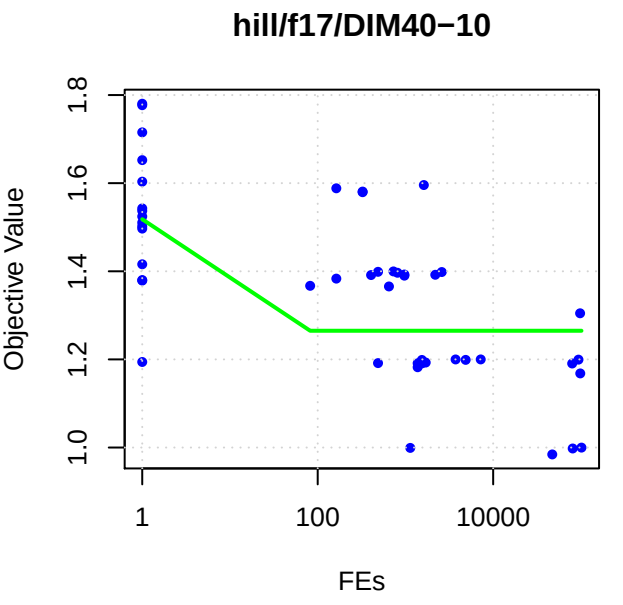
1.6
2.0
1
100
10000
FEs


hill/f17/DIM40−10
Objective Value
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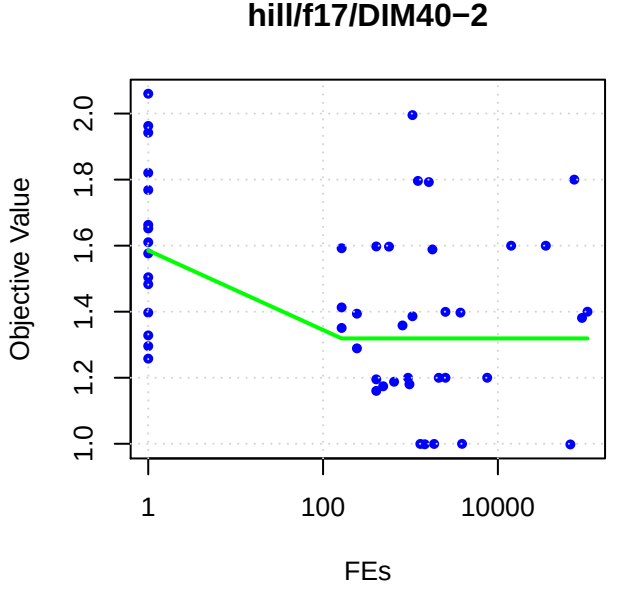
1.2
1.4
1.6
1.8
1
100
10000
FEs


hill/f17/DIM40−2
Objective Value
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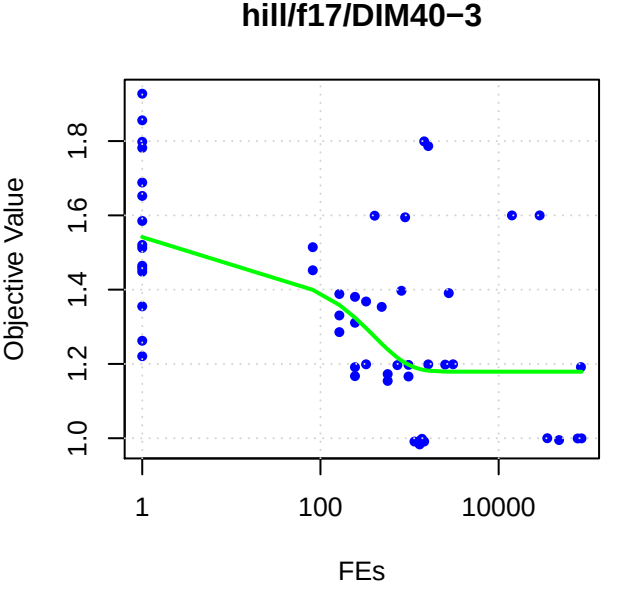
1.2
1.4
1.6
1.8
2.0
1
100
10000
FEs


hill/f17/DIM40−3
Objective Value
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1.2
1.4
1.6
1.8
1
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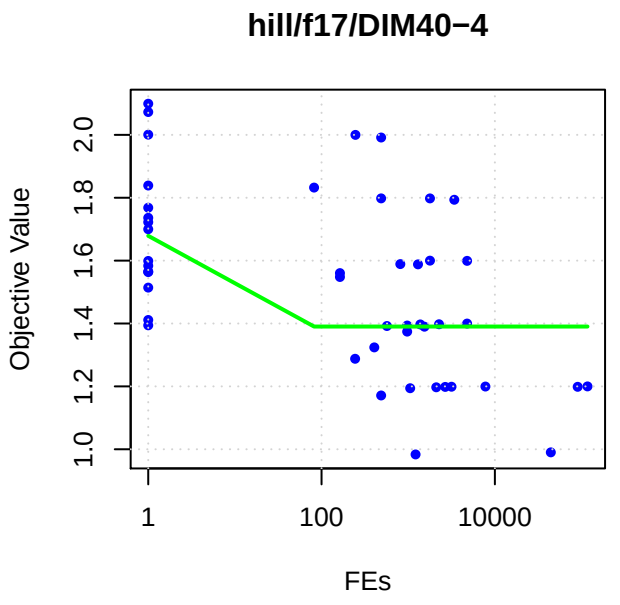
10000
FEs


hill/f17/DIM40−4
Objective Value
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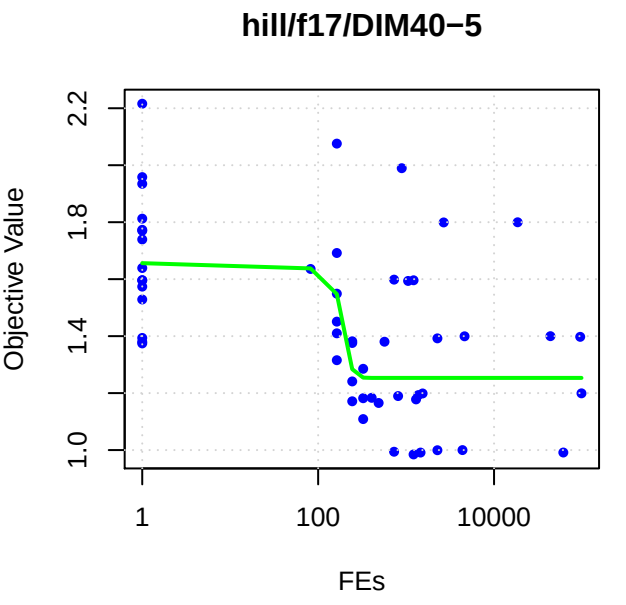
1.2
1.4
1.6
1.8
2.0
1
100
10000
FEs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Objective Value
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1.4
1.8
2.2
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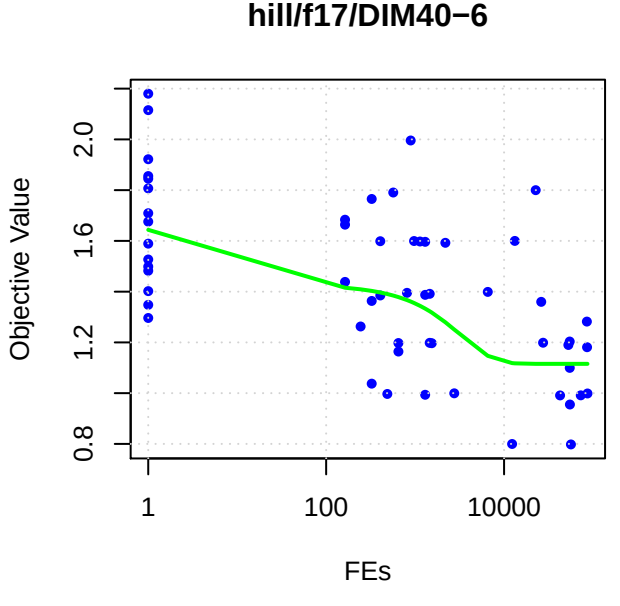
FEs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Objective Value
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1.6
2.0
1
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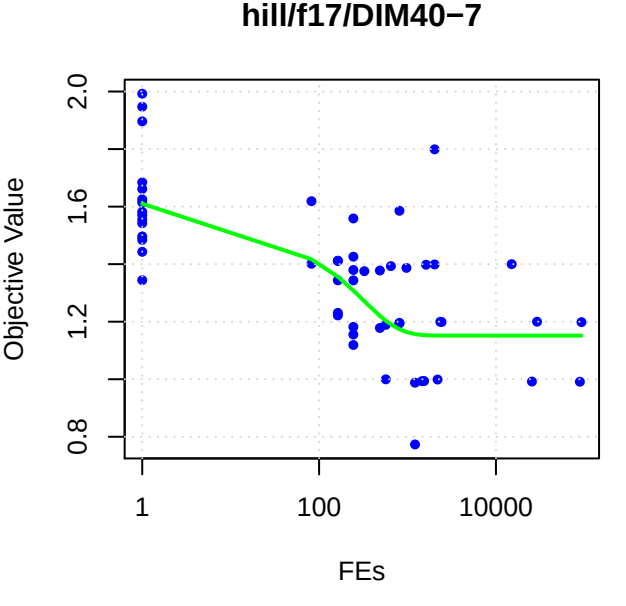
10000
FEs


hill/f17/DIM40−7
Objective Value
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1.6
2.0
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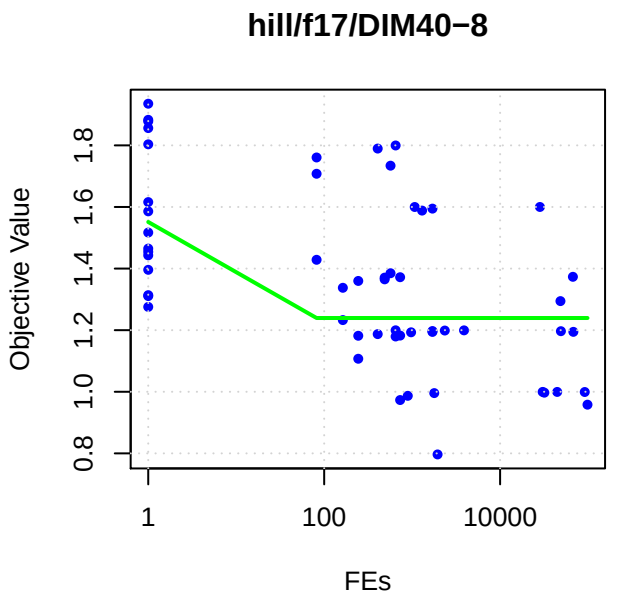
10000
FEs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Objective Value
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1.4
1.6
1.8
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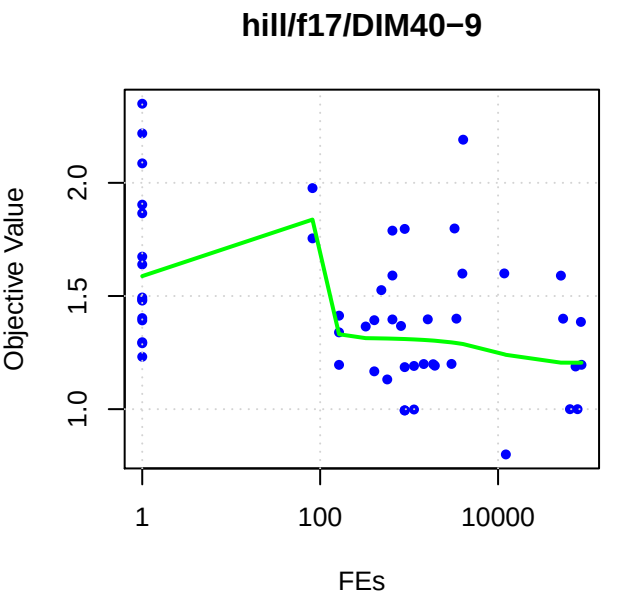
FEs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Objective Value
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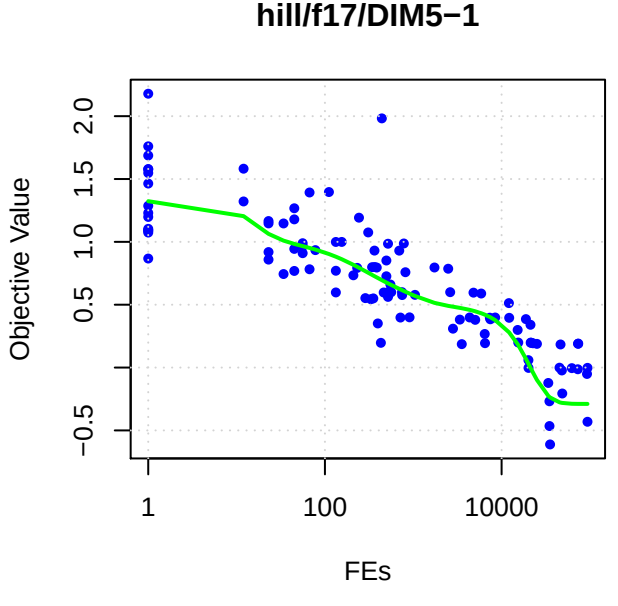
FEs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Objective Value
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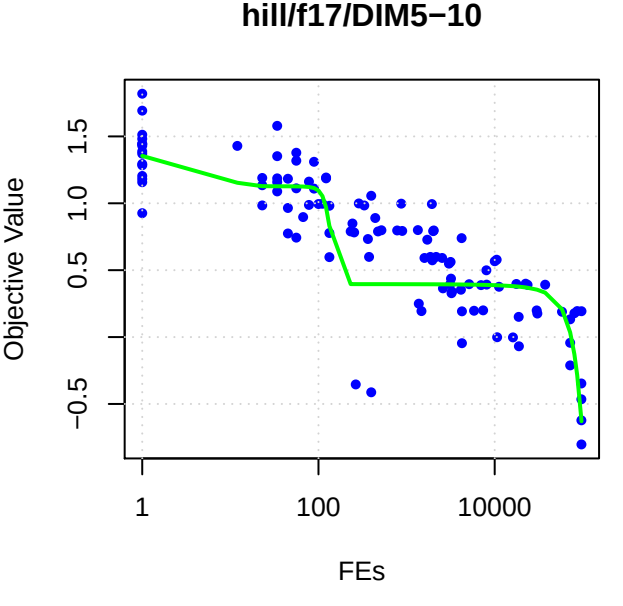
FEs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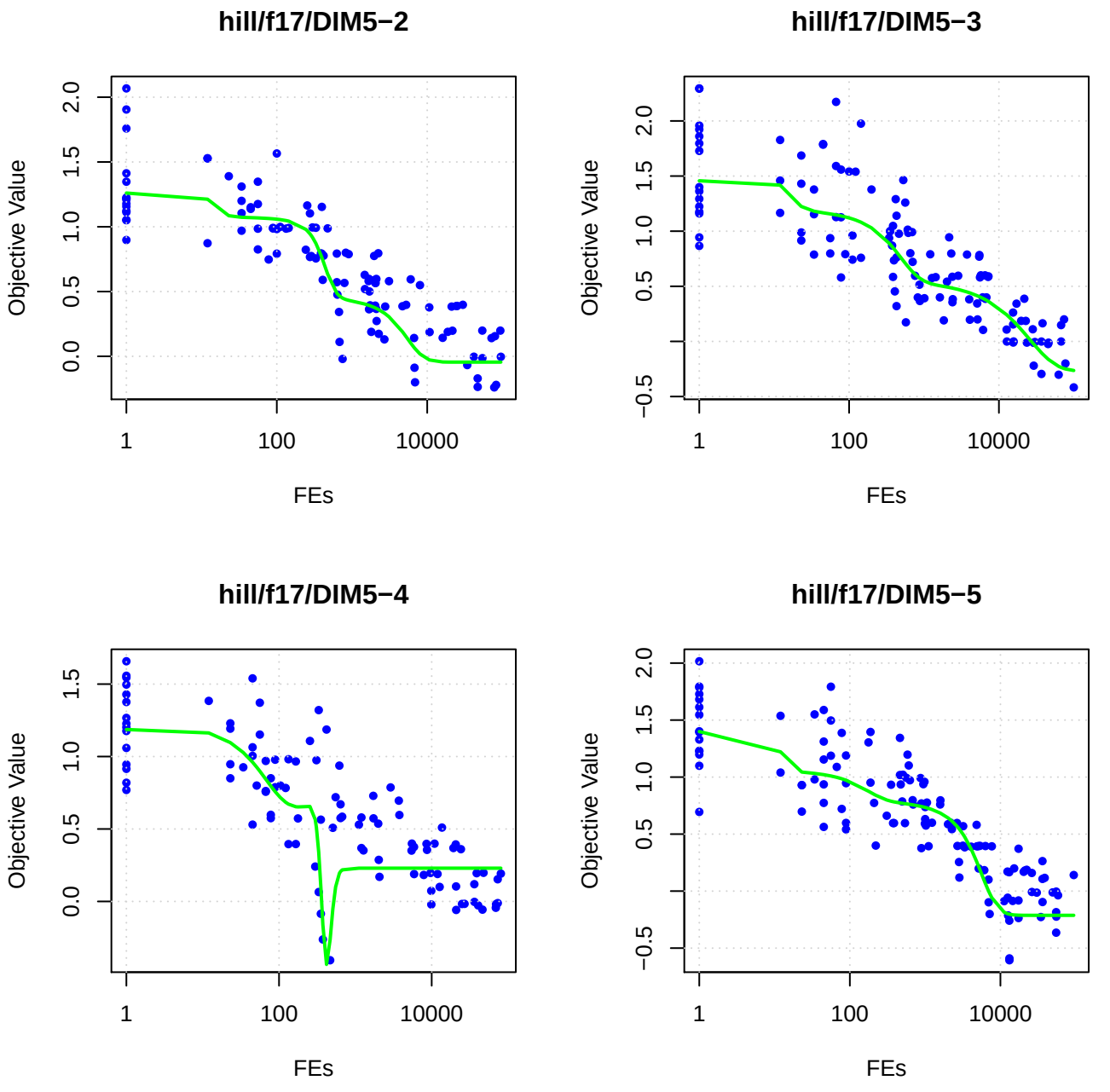
hill/f17/DIM5−2
hill/f17/DIM5−3
hill/f17/DIM5−4
hill/f17/DIM5−5
Objective Value
FEs
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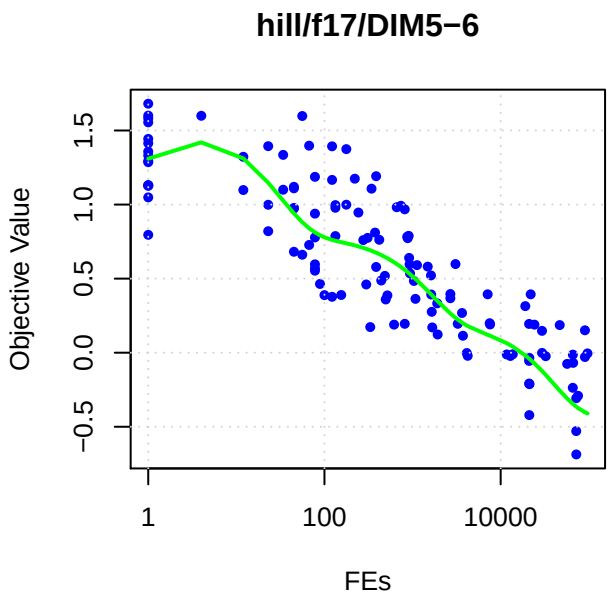
1.5
2.0
−0.5


hill/f17/DIM5−6
Objective Value
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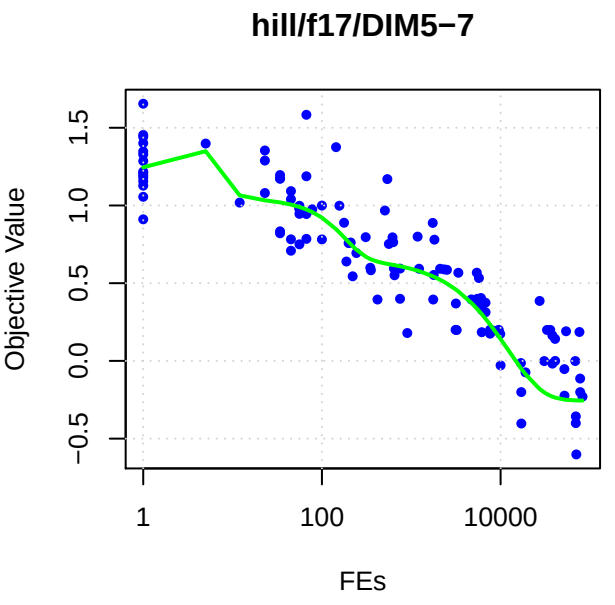
FEs


hill/f17/DIM5−7
Objective Value
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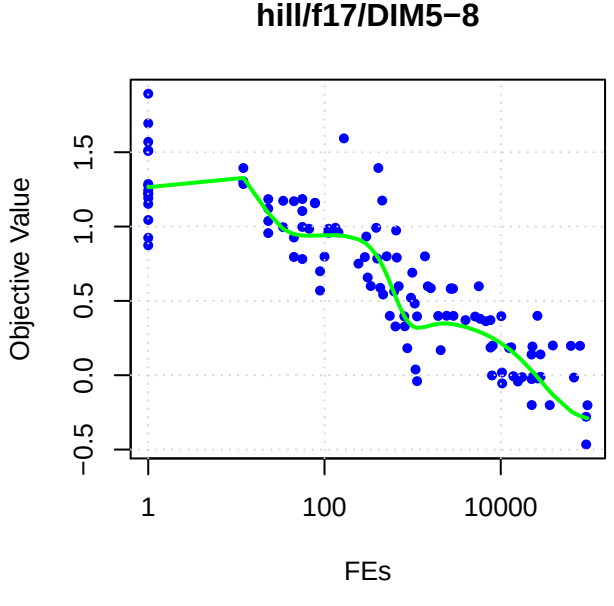
FEs


hill/f17/DIM5−8
Objective Value
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1.5
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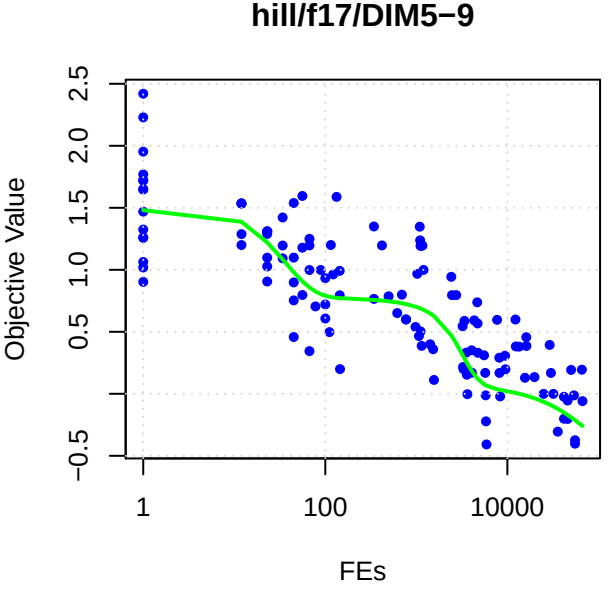
FEs


hill/f17/DIM5−9
Objective Value
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1.5
2.0
2.5
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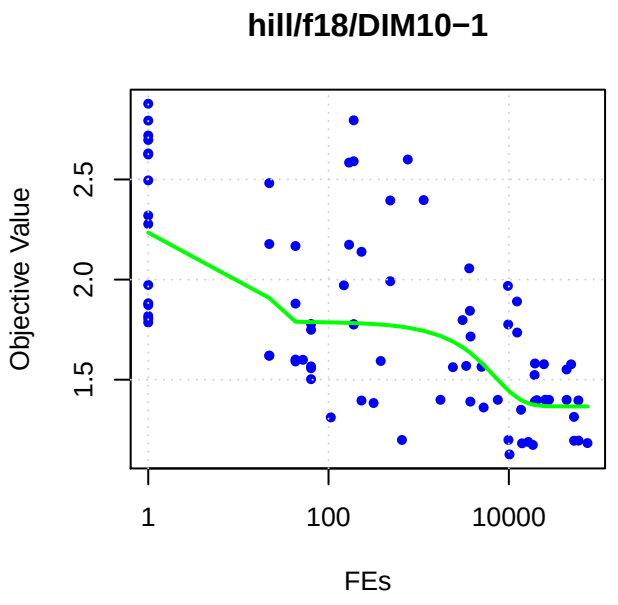
10000
FEs


hill/f18/DIM10−1
Objective Value
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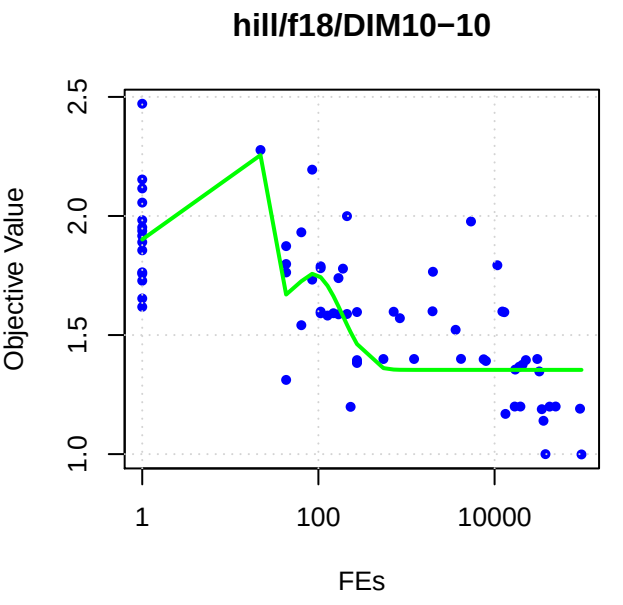
FEs


hill/f18/DIM10−10
Objective Value
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1.0
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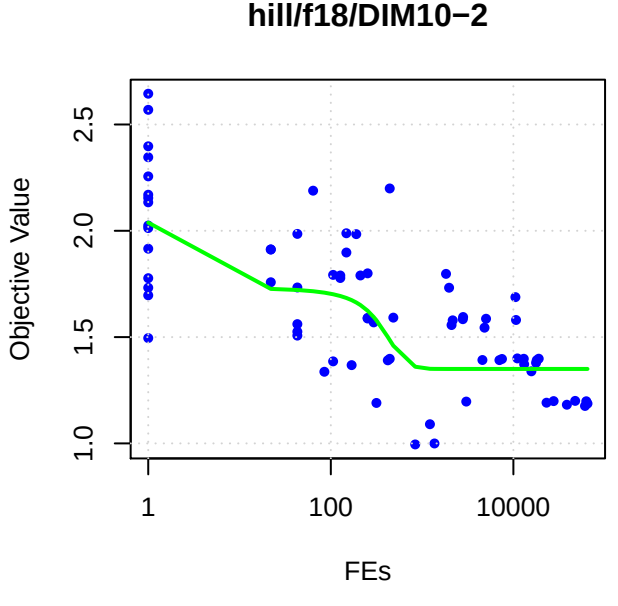
FEs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Objective Value
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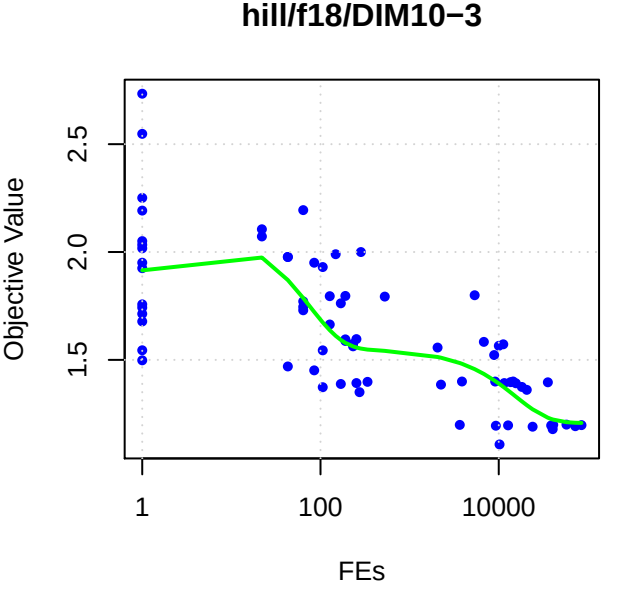
FEs


hill/f18/DIM10−3
Objective Value
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1.5
1
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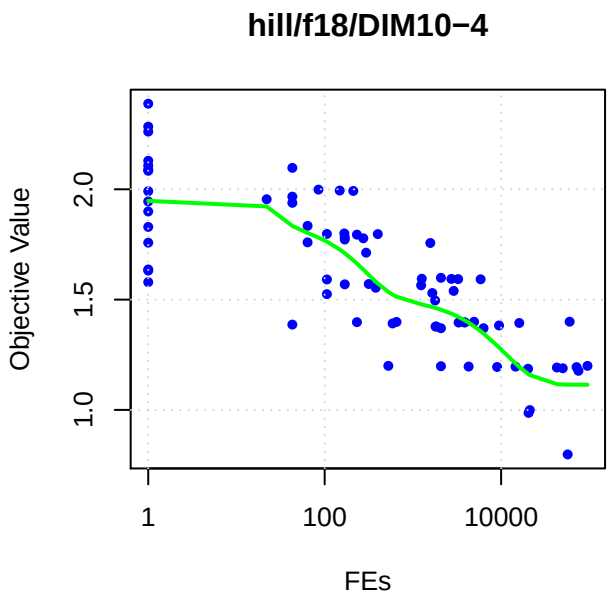
FEs


hill/f18/DIM10−4
Objective Value
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1
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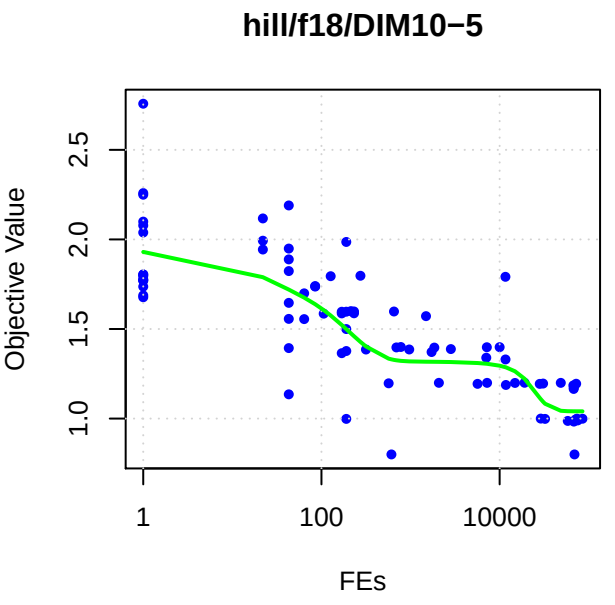
10000
FEs


hill/f18/DIM10−5
Objective Value
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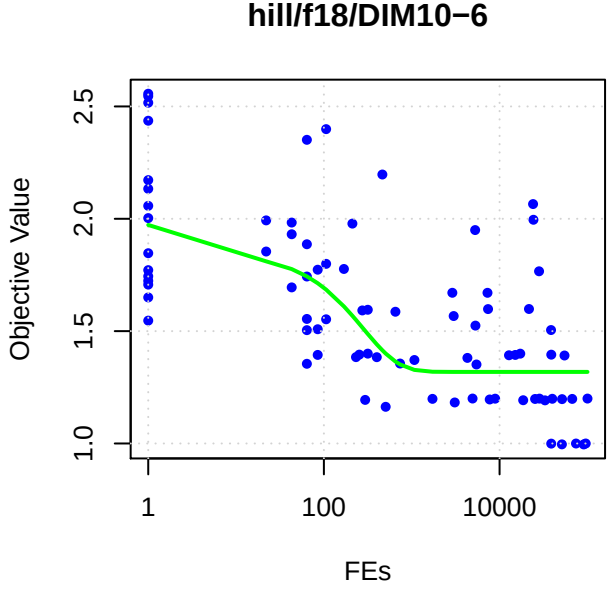
10000
FEs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Objective Value
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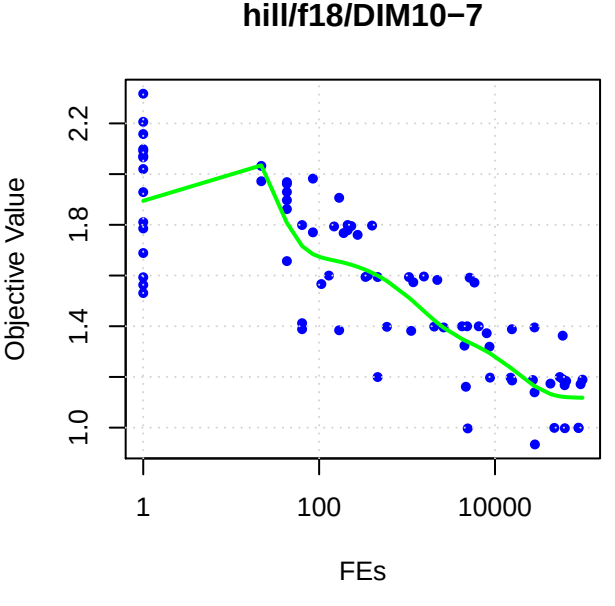
FEs


hill/f18/DIM10−7
Objective Value
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1.8
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1
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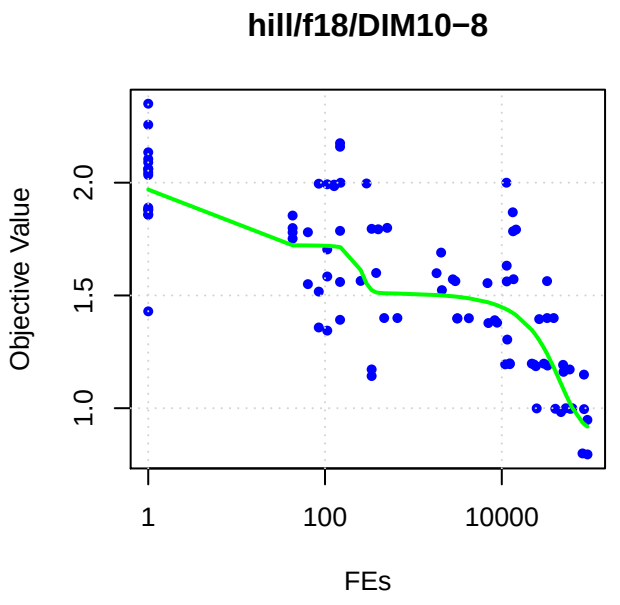
10000
FEs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Objective Value
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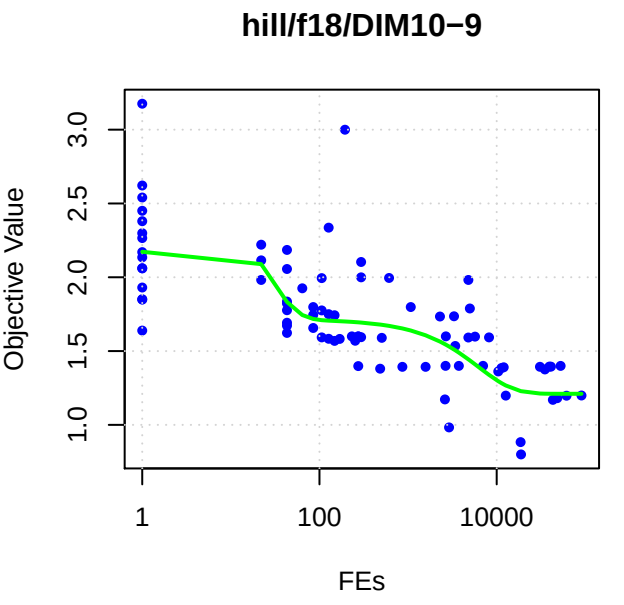
FEs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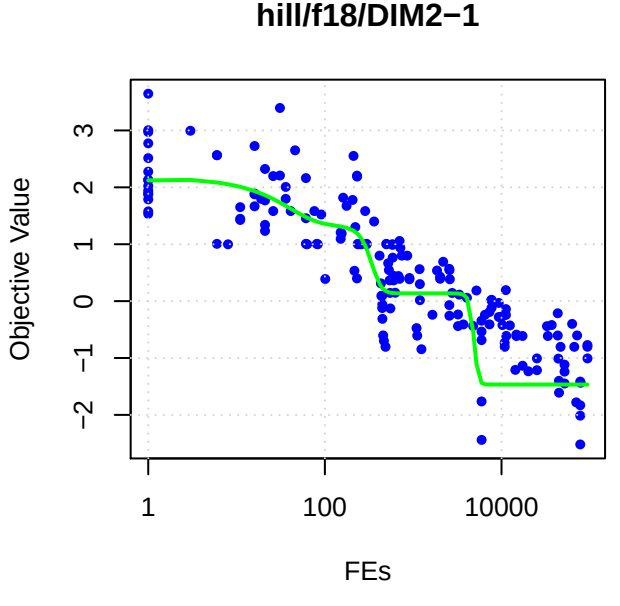
FEs


hill/f18/DIM2−1
Objective Value
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−2
1
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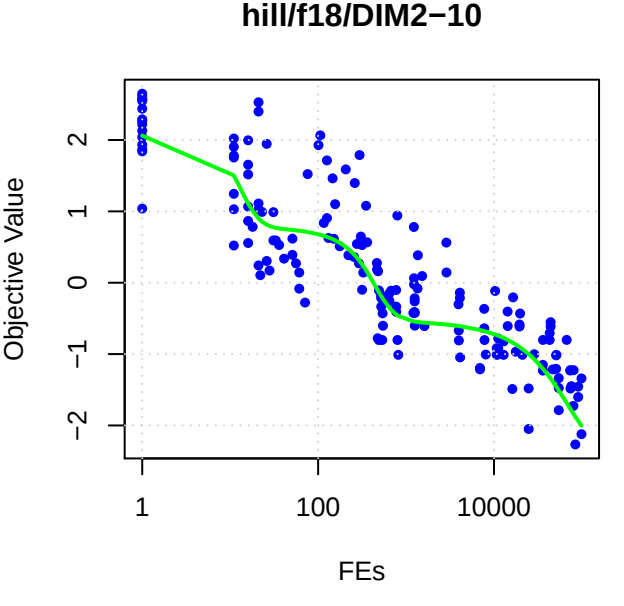
10000
FEs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−2
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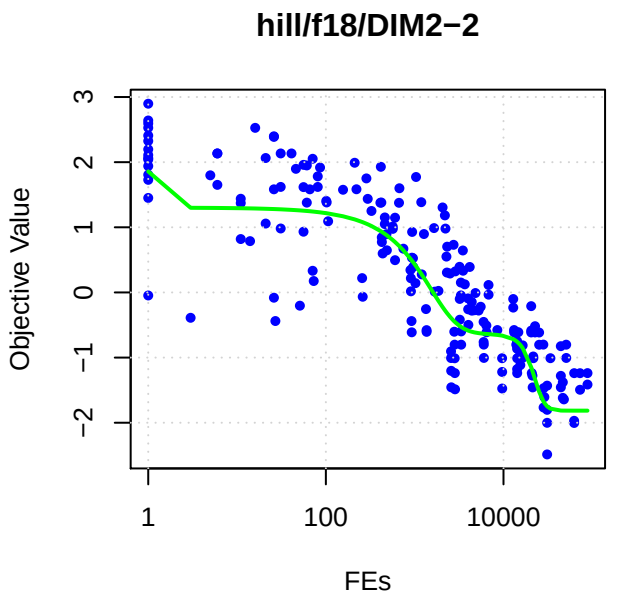
FEs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Objective Value
FEs
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10000
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2
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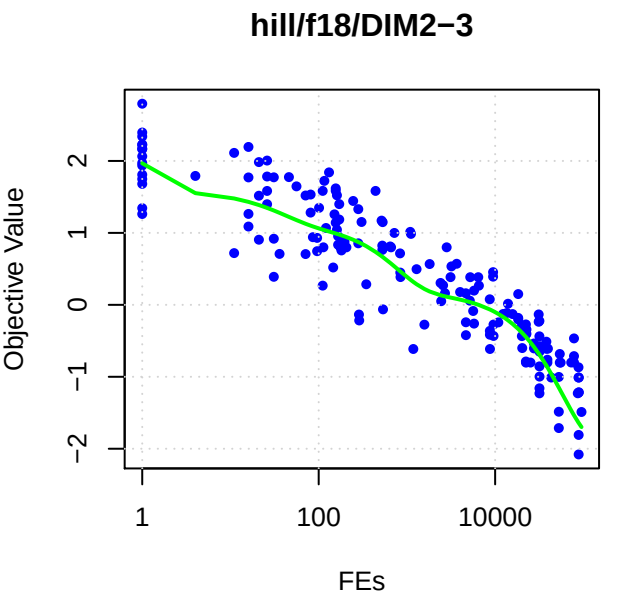
−1
−2


hill/f18/DIM2−3
Objective Value
FEs
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10000
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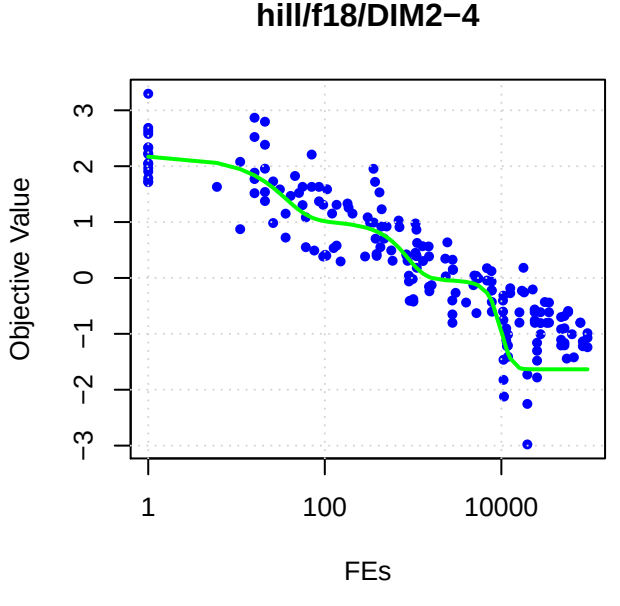
1
0
−1
−2


hill/f18/DIM2−4
Objective Value
FEs
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100
10000
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1
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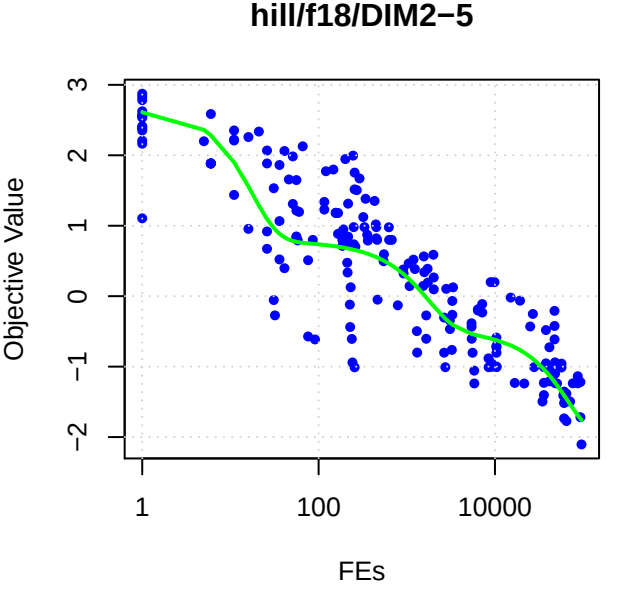
−1
−2
−3


hill/f18/DIM2−5
Objective Value
FEs
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100
10000
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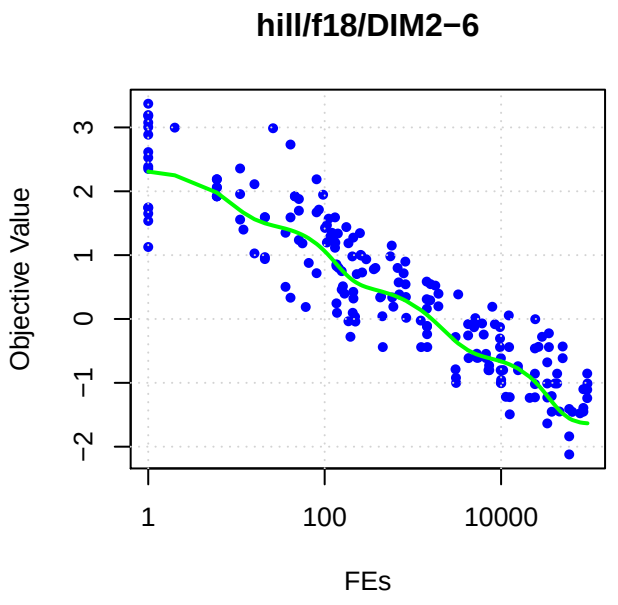
2
1
0
−1
−2


hill/f18/DIM2−6
Objective Value
FEs
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10000
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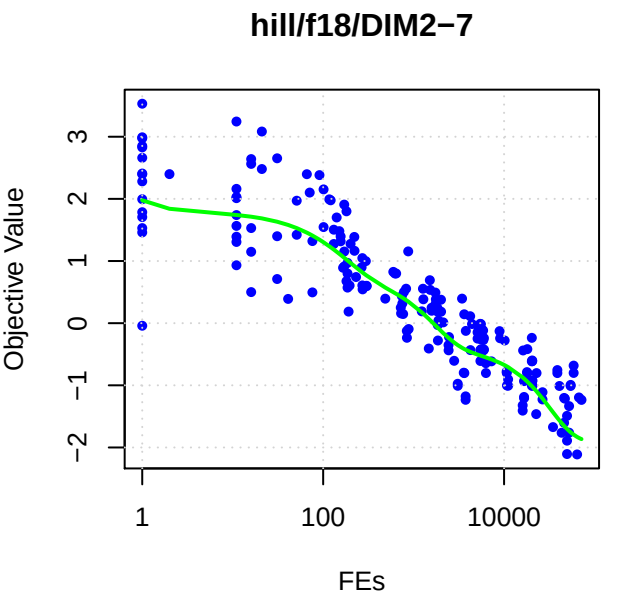
1
2
3


hill/f18/DIM2−7
Objective Value
FEs
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10000
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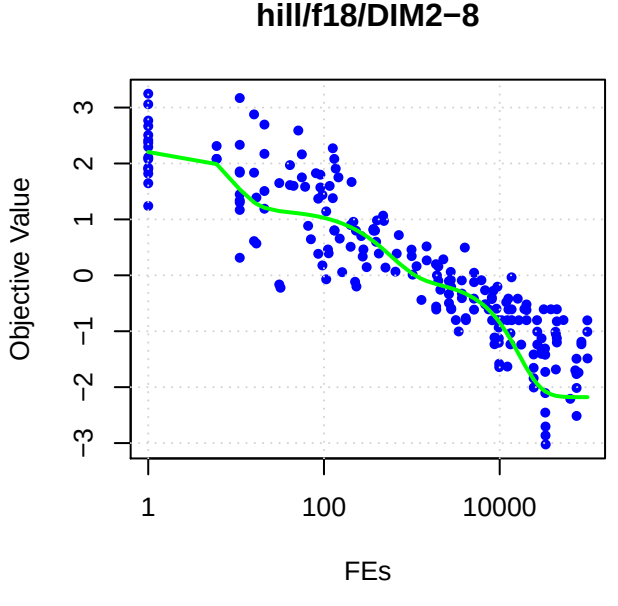
1
2
3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Objective Value
FEs
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10000
−3
−2
−1
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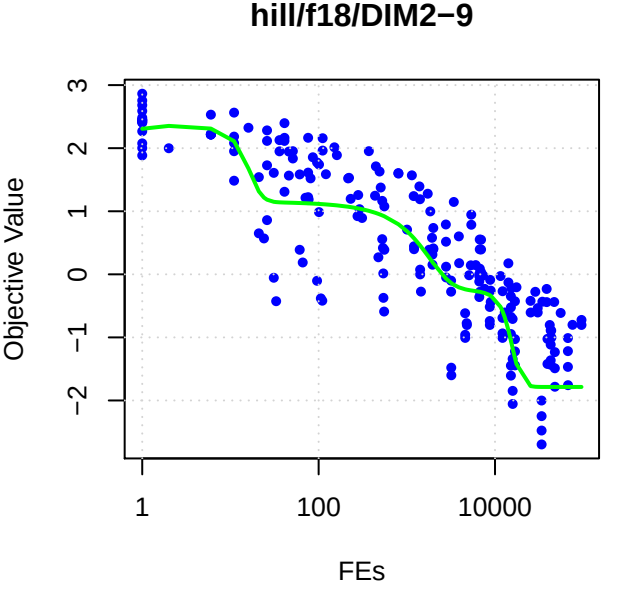
1
2
3


hill/f18/DIM2−9
Objective Value
FEs
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10000
−2
−1
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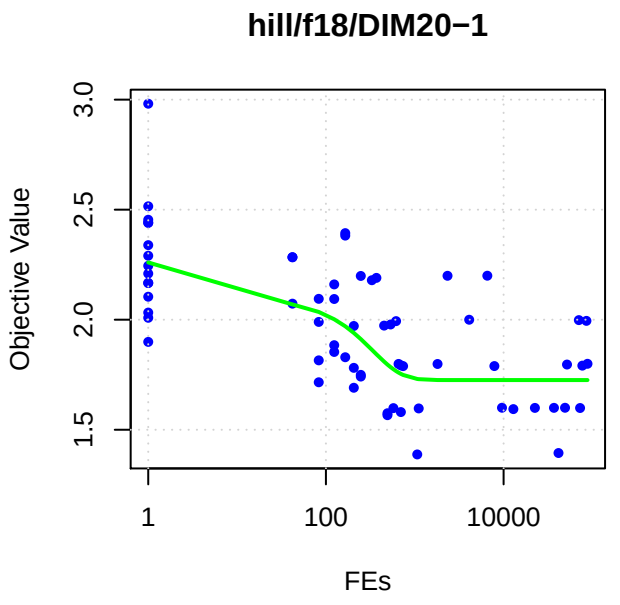
1
2
3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Objective Value
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1.5
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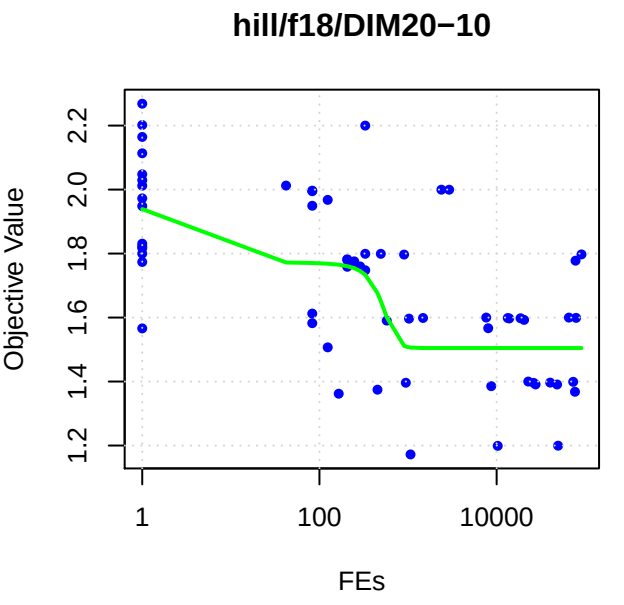
10000
FEs


hill/f18/DIM20−10
Objective Value
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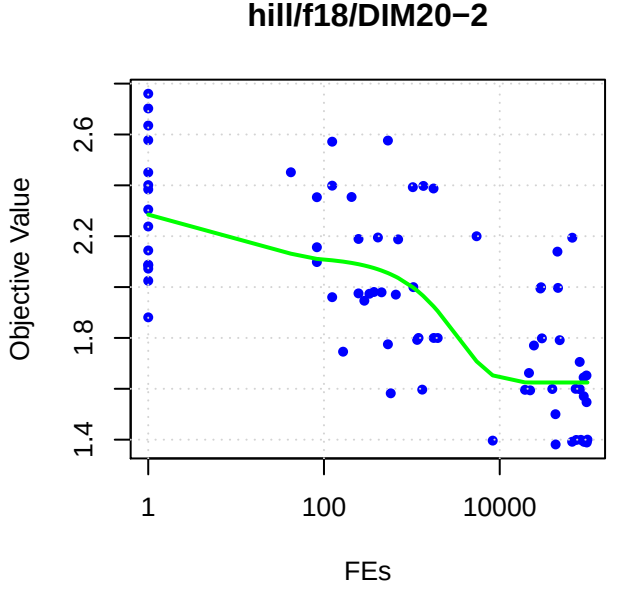
1.8
1.6
1.4
1.2
1
100
10000
FEs


hill/f18/DIM20−2
Objective Value
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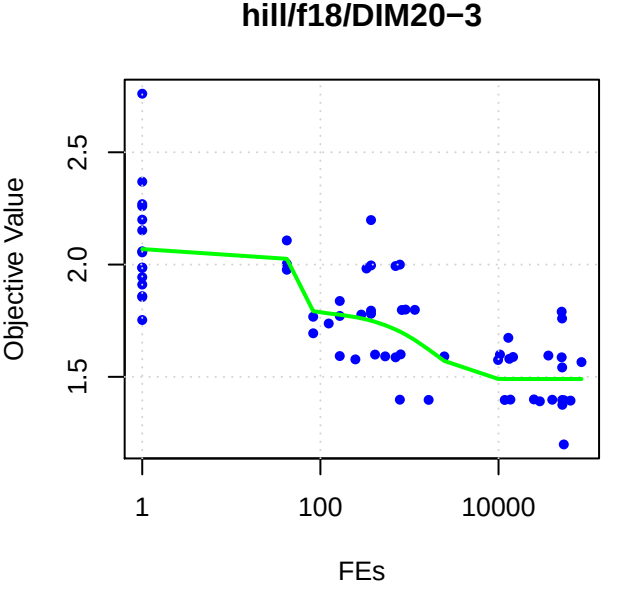
2.2
1.8
1.4
1
100
10000
FEs


hill/f18/DIM20−3
Objective Value
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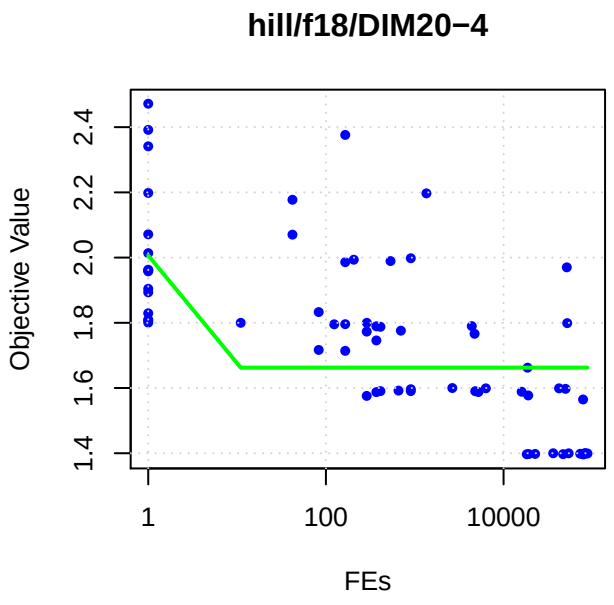
1.5
1
100
10000
FEs


hill/f18/DIM20−4
Objective Value
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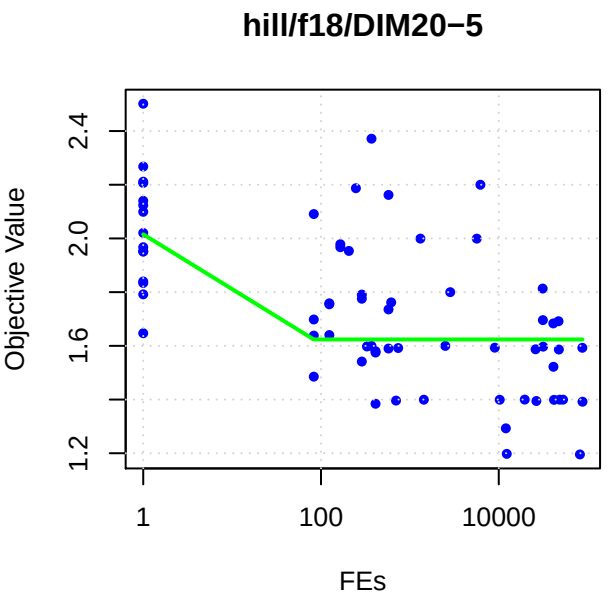
1.6
1.8
2.0
2.2
2.4
1
100
10000
FEs


hill/f18/DIM20−5
Objective Value
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2.4
1
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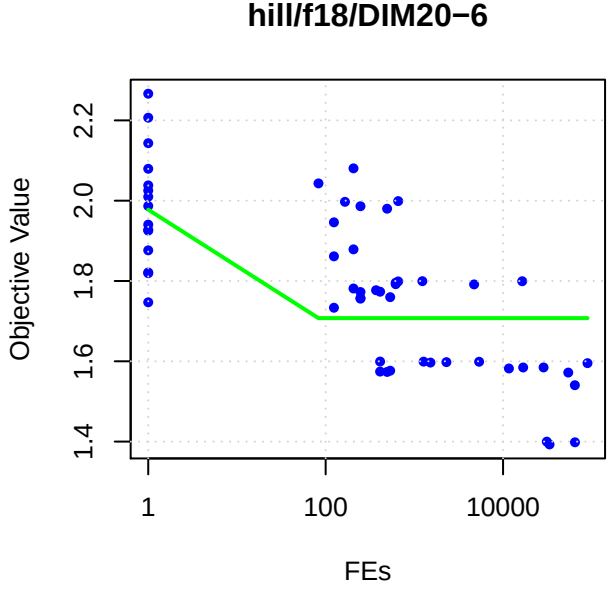
10000
FEs


hill/f18/DIM20−6
Objective Value
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1.6
1.8
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2.2
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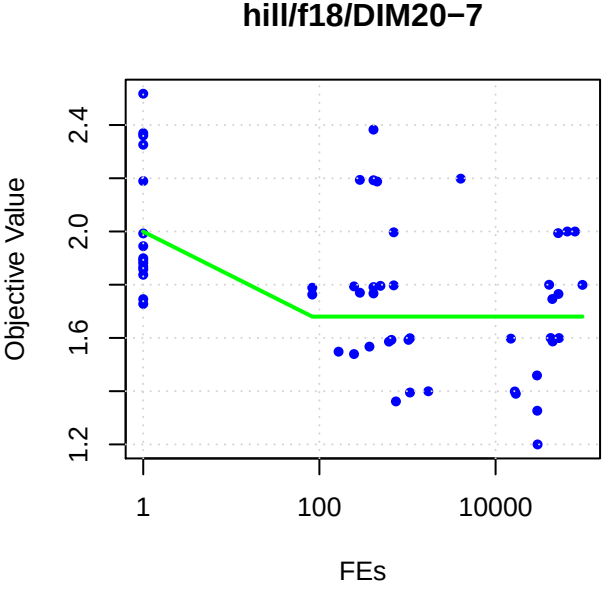
100
10000
FEs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Objective Value
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2.0
2.4
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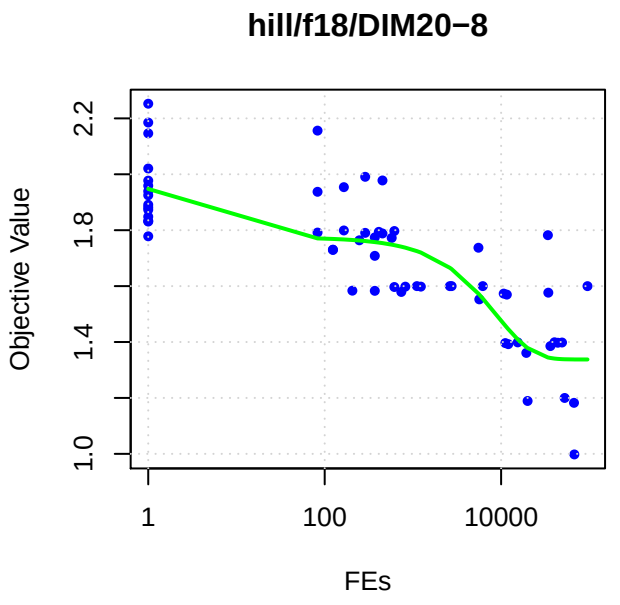
FEs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Objective Value
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1.8
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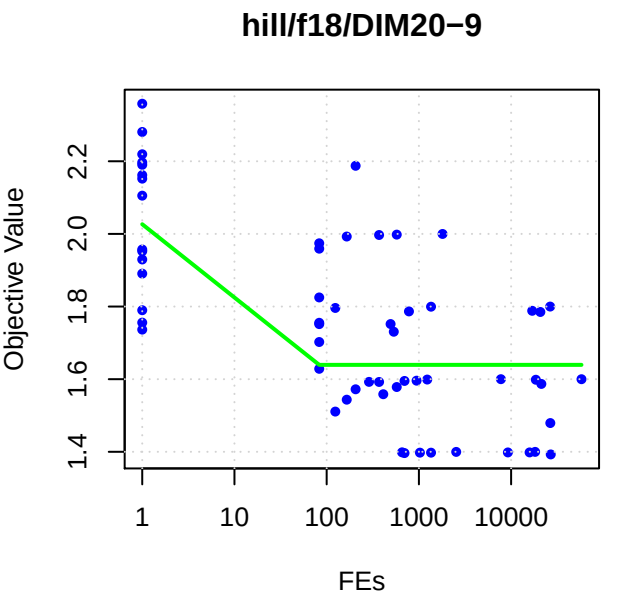
FEs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Objective Value
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1.8
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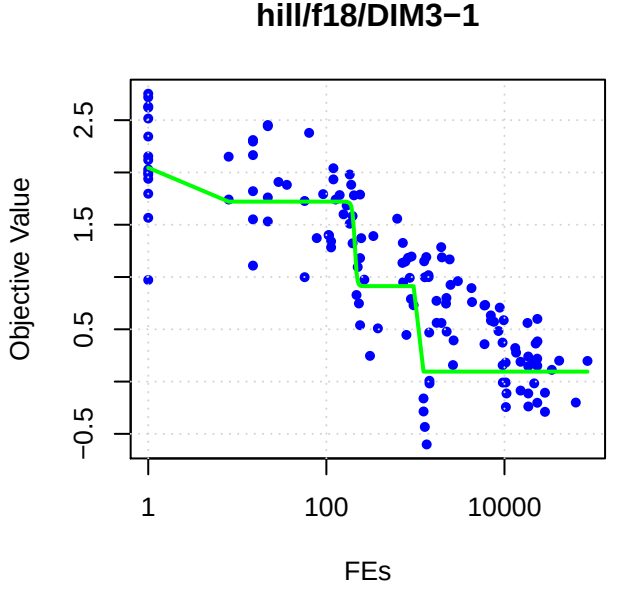
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Objective Value
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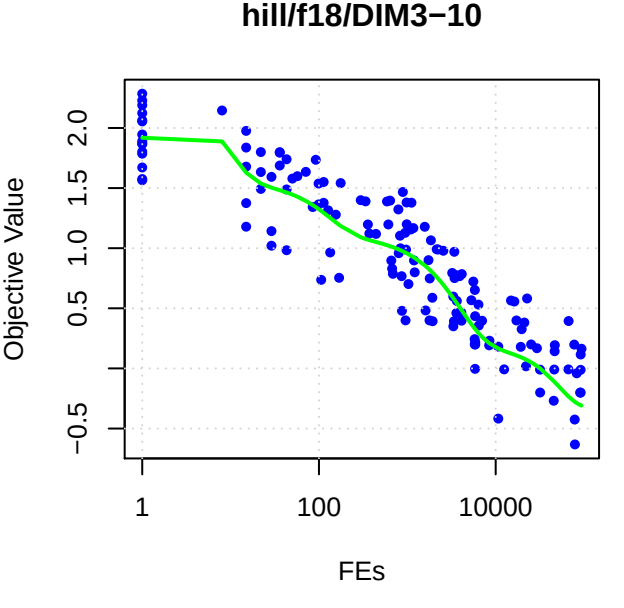
hill/f18/DIM3−10
Objective Value
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1.5
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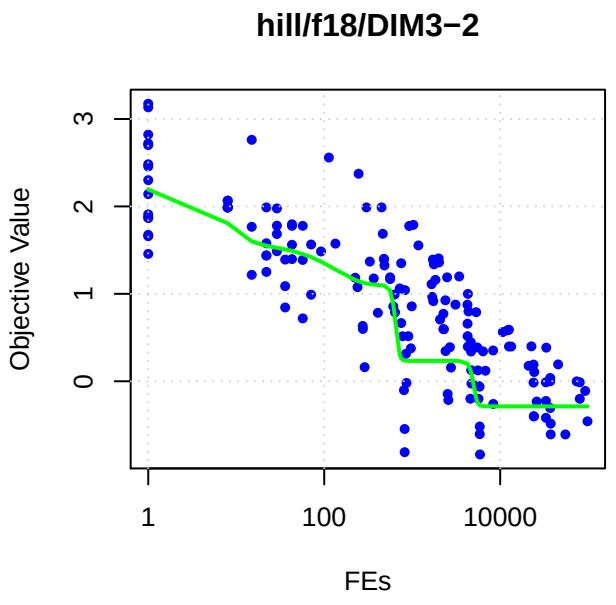
FEs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Objective Value
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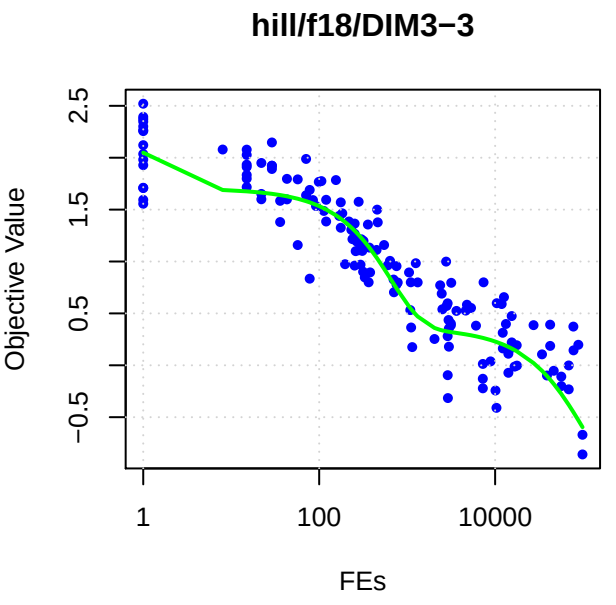
2
3
1
100
10000
FEs


hill/f18/DIM3−3
Objective Value
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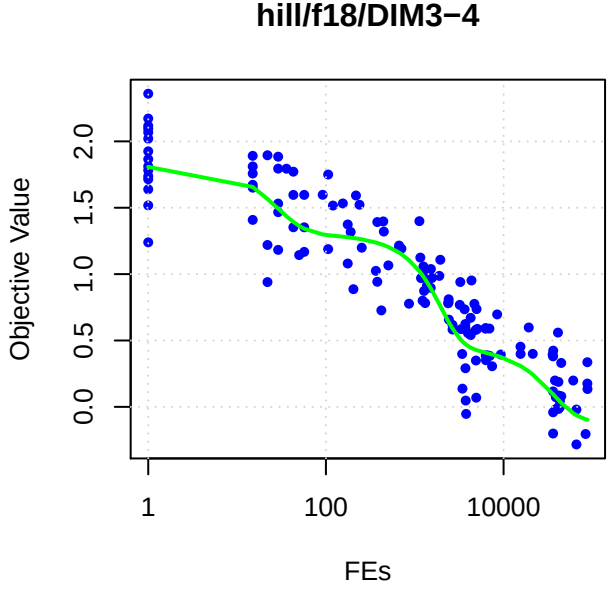
FEs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Objective Value
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1.5
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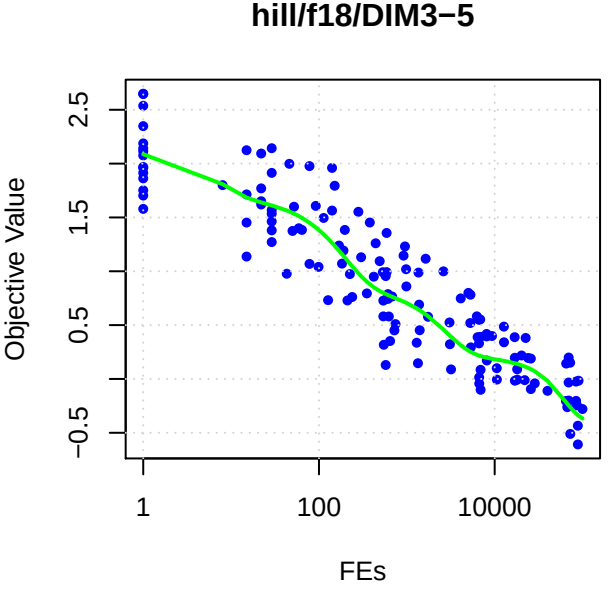
FEs


hill/f18/DIM3−5
Objective Value
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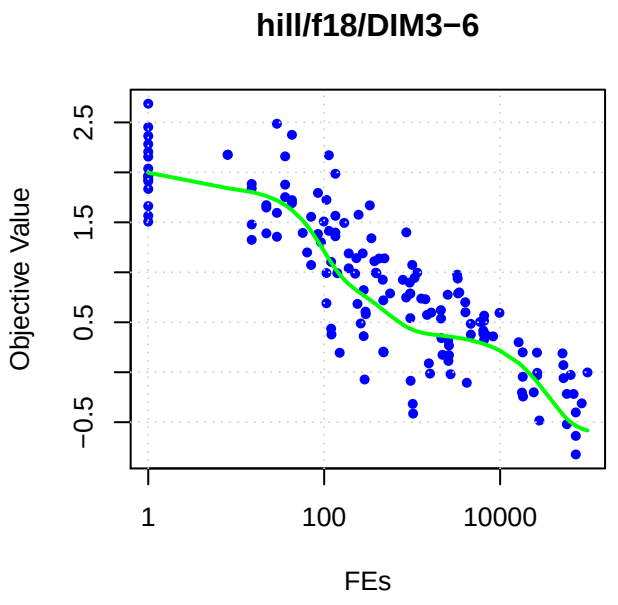
FEs


hill/f18/DIM3−6
Objective Value
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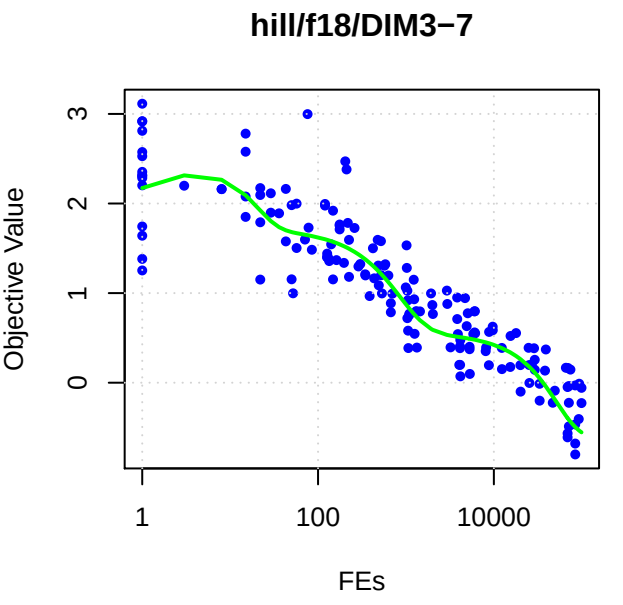
10000
FEs


hill/f18/DIM3−7
Objective Value
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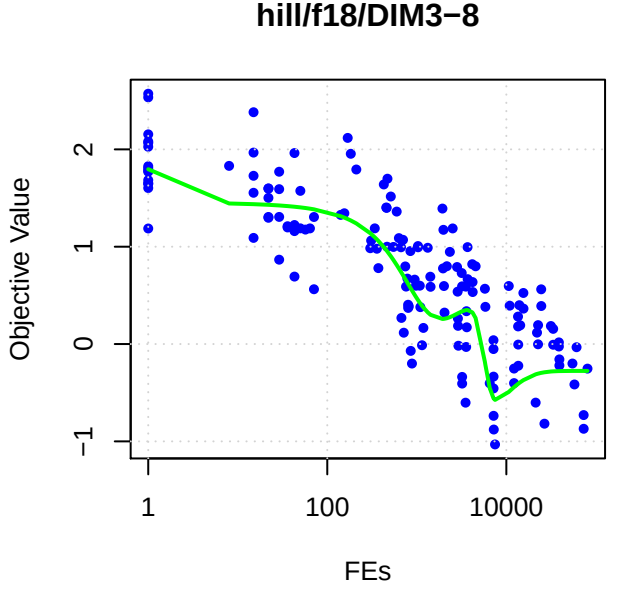
FEs


hill/f18/DIM3−8
Objective Value
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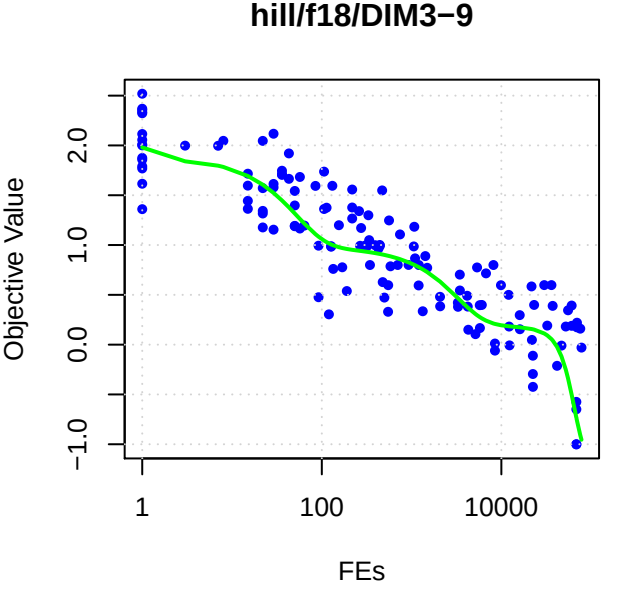
FEs


hill/f18/DIM3−9
Objective Value
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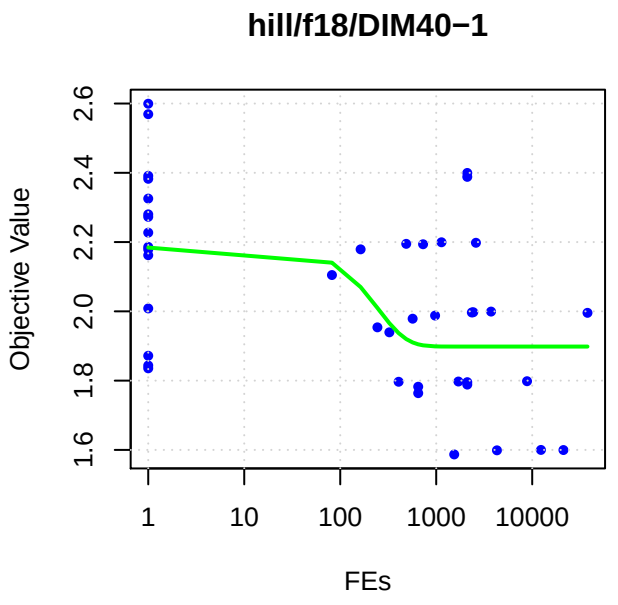
10000
FEs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Objective Value
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2.0
2.2
2.4
2.6
1
10
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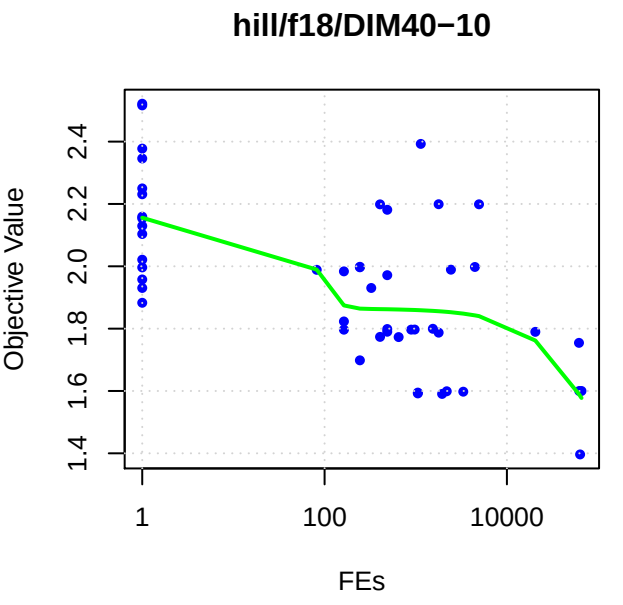
1000
10000
FEs


hill/f18/DIM40−10
Objective Value
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1.8
2.0
2.2
2.4
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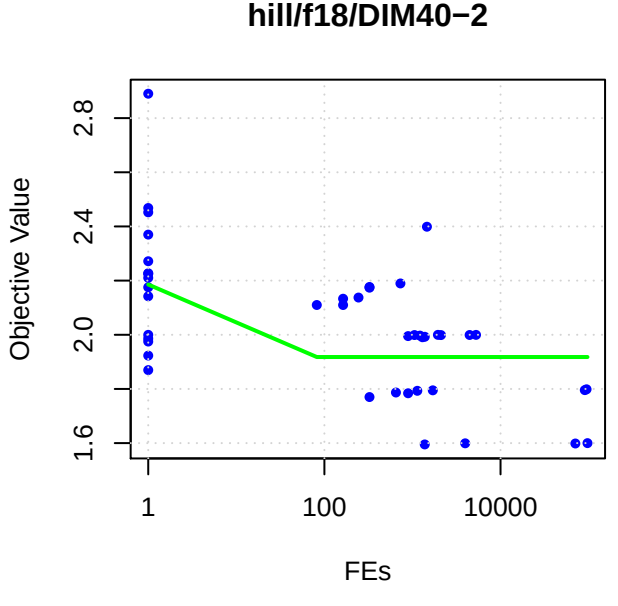
FEs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Objective Value
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2.4
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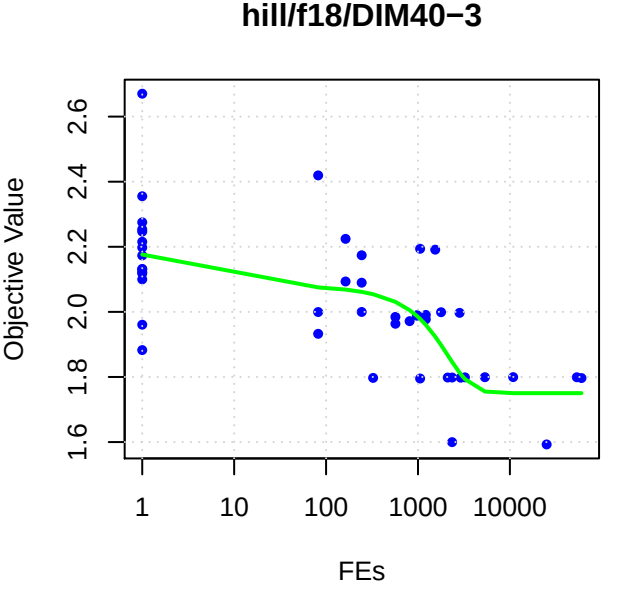
FEs


hill/f18/DIM40−3
Objective Value
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2.2
2.4
2.6
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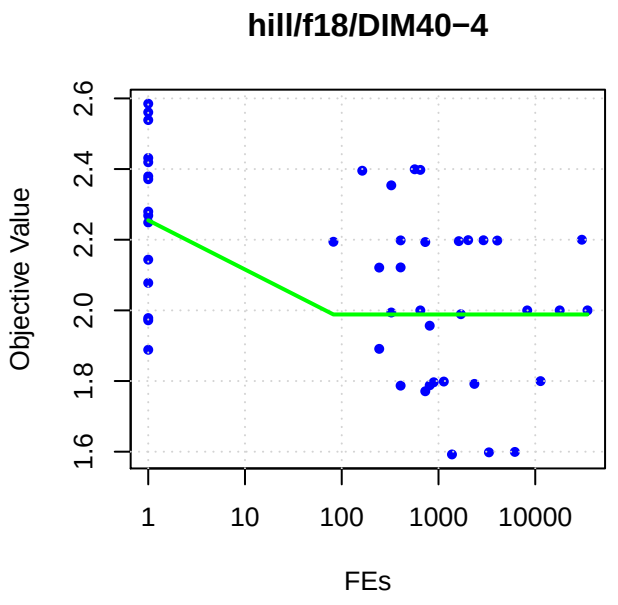
10000
FEs


hill/f18/DIM40−4
Objective Value
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2.2
2.4
2.6
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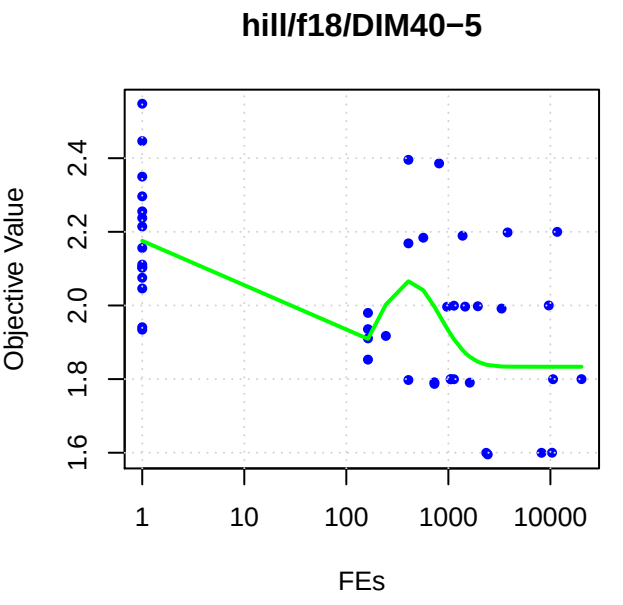
FEs


hill/f18/DIM40−5
Objective Value
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2.0
2.2
2.4
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10
100
1000
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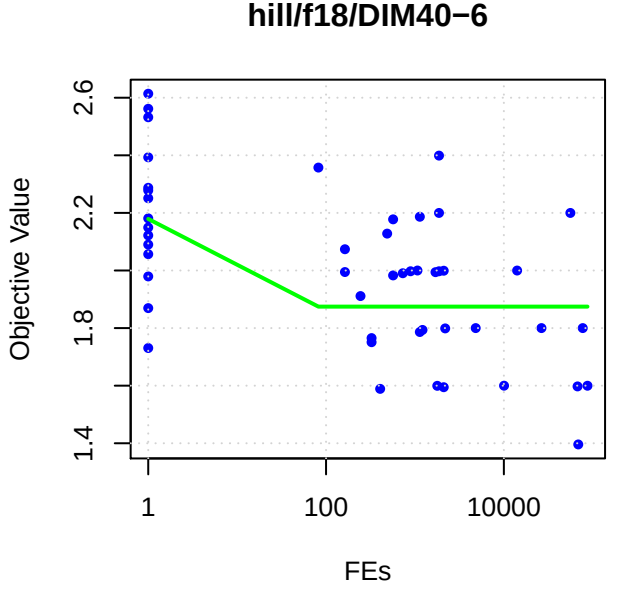
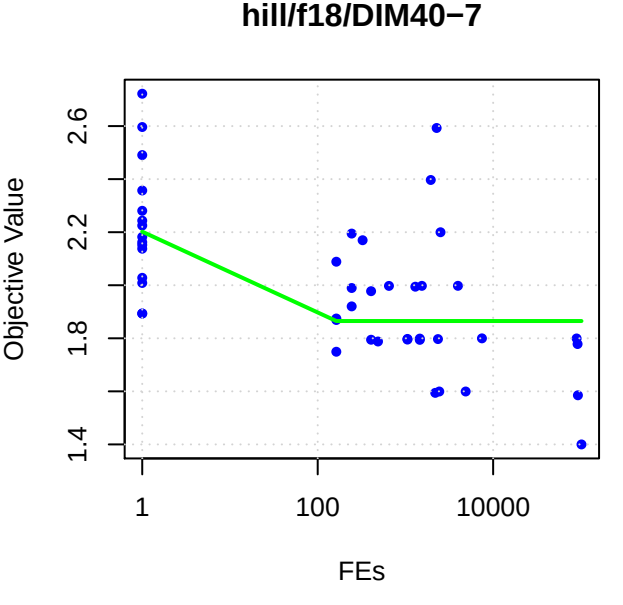
FEs


hill/f18/DIM40−6
Objective Value
1.4
1.8
2.2
2.6
1
100
10000
FEs


hill/f18/DIM40−7
Objective Value
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2.2
2.6
1
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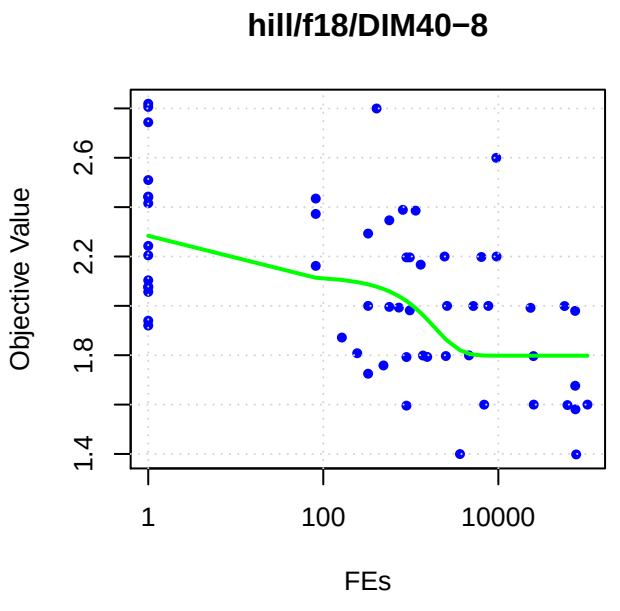
10000
FEs


hill/f18/DIM40−8
Objective Value
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2.2
2.6
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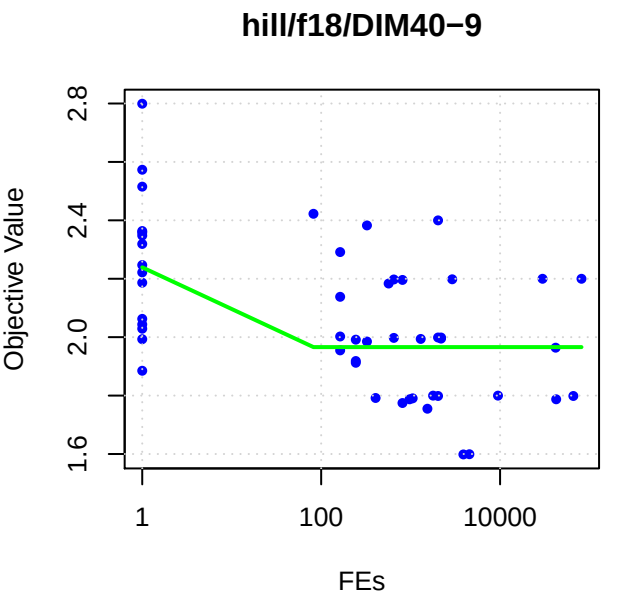
10000
FEs


hill/f18/DIM40−9
Objective Value
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2.4
2.8
1
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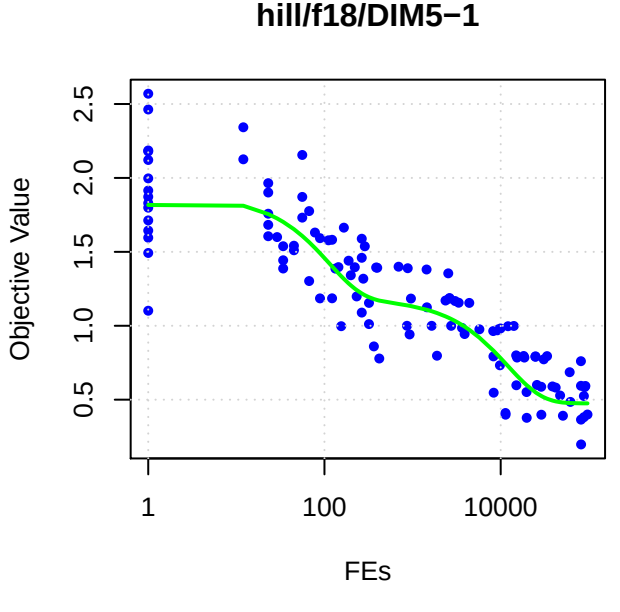
10000
FEs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Objective Value
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2.0
2.5
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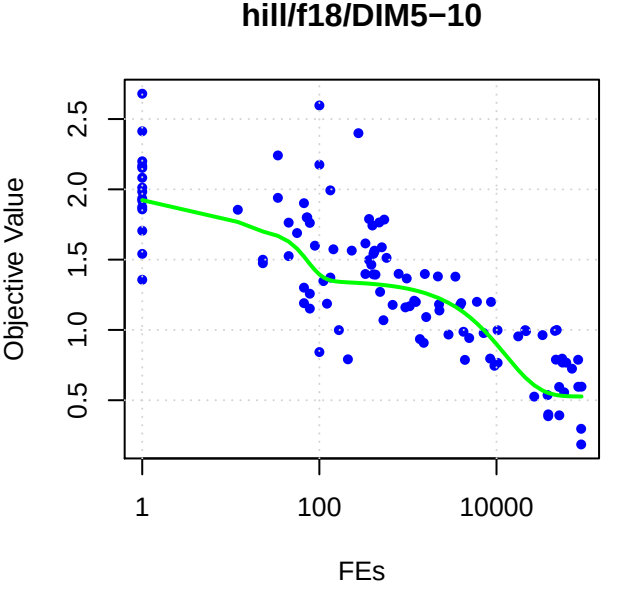
100
10000
FEs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Objective Value
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2.0
2.5
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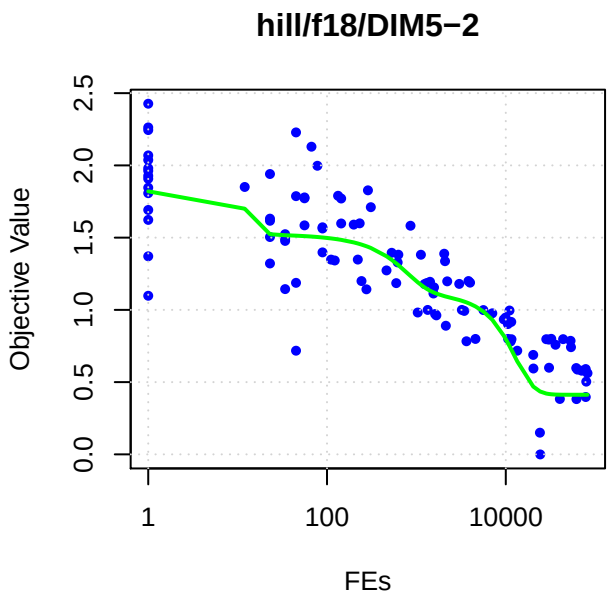
100
10000
FEs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Objective Value
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2.0
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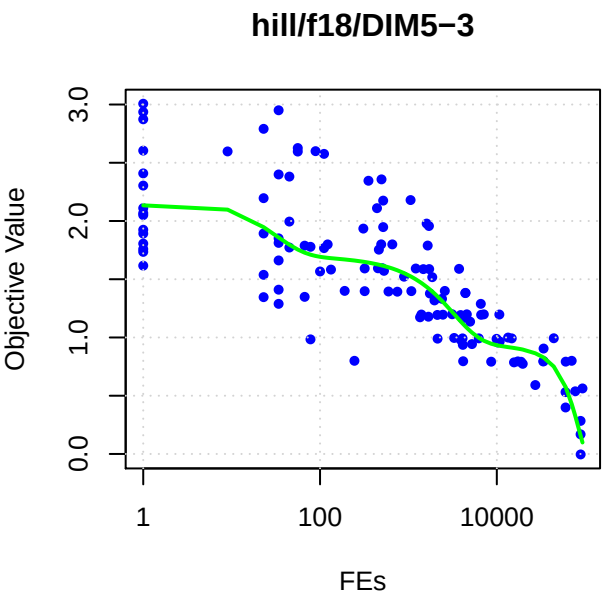
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Objective Value
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3.0
1
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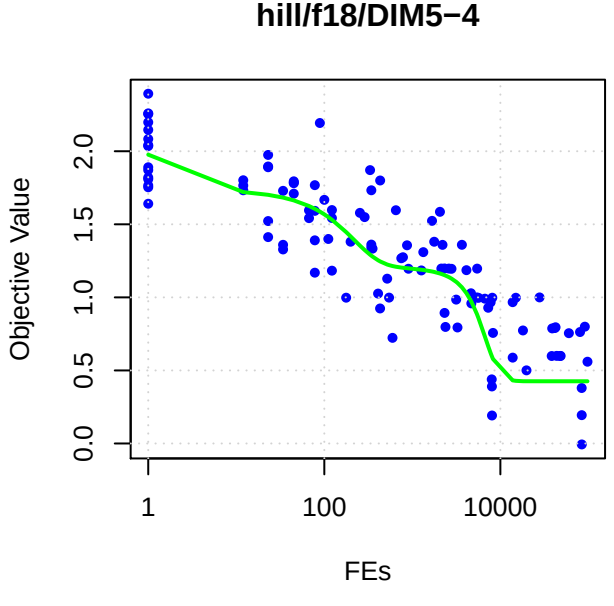
10000
FEs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Objective Value
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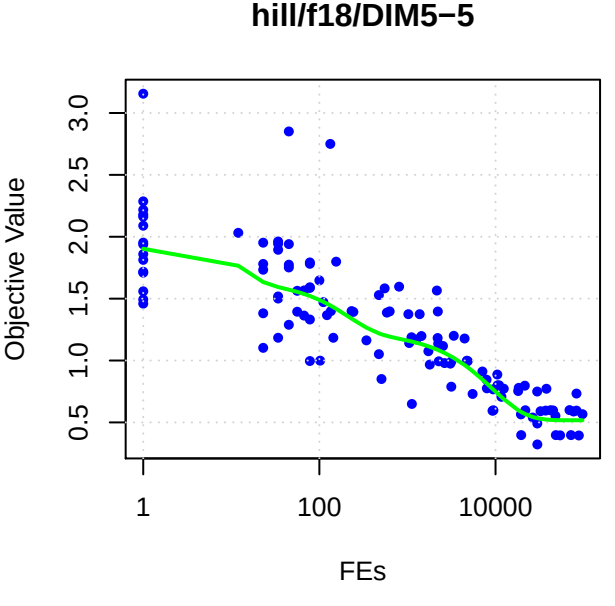
1.5
2.0
1
100
10000
FEs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Objective Value
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1.5
2.0
2.5
3.0
1
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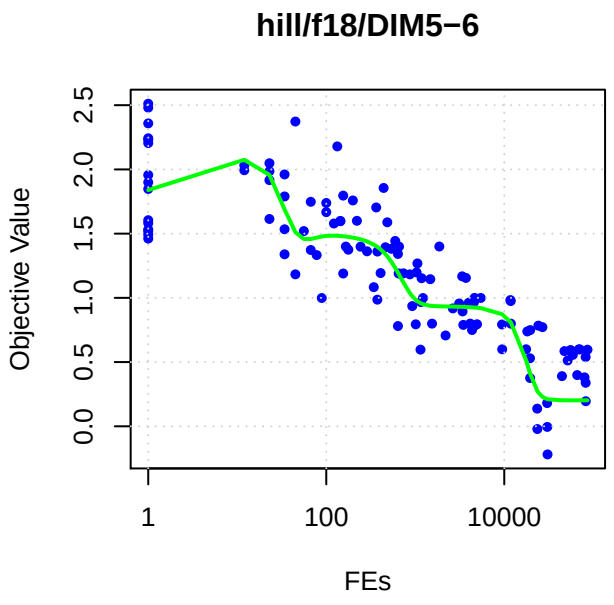
10000
FEs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Objective Value
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2.0
2.5
1
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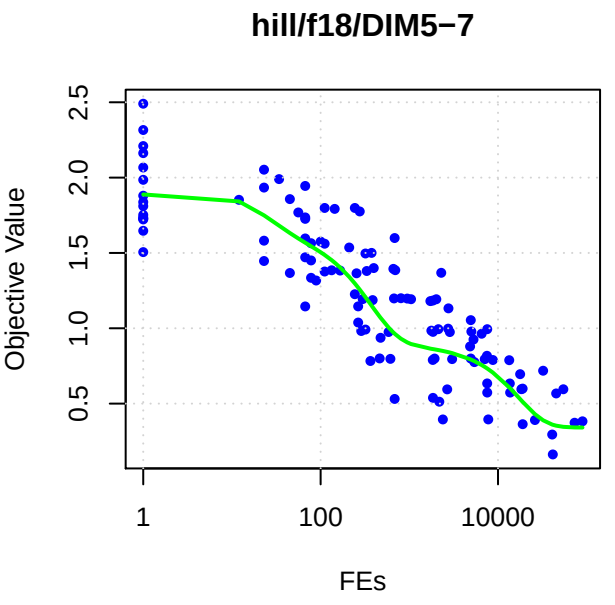
10000
FEs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Objective Value
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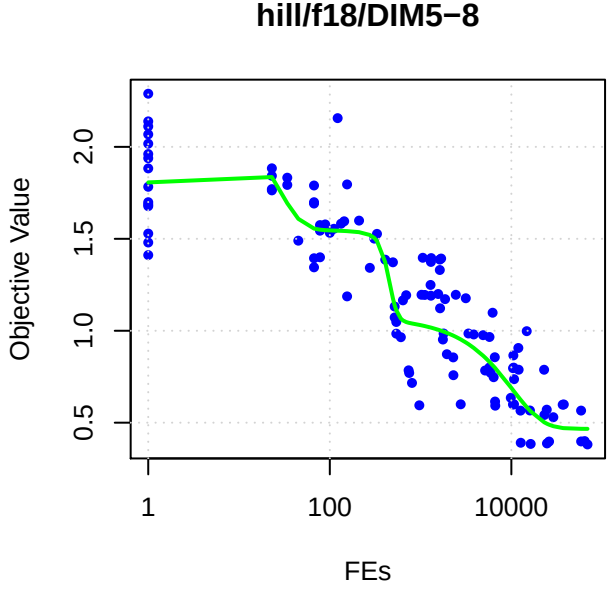
1.0
1.5
2.0
2.5
1
100
10000
FEs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Objective Value
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1.5
2.0
1
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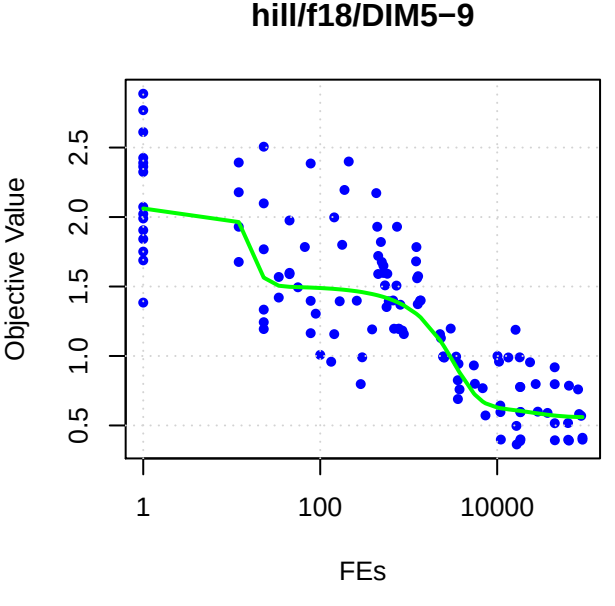
10000
FEs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Objective Value
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2.0
2.5
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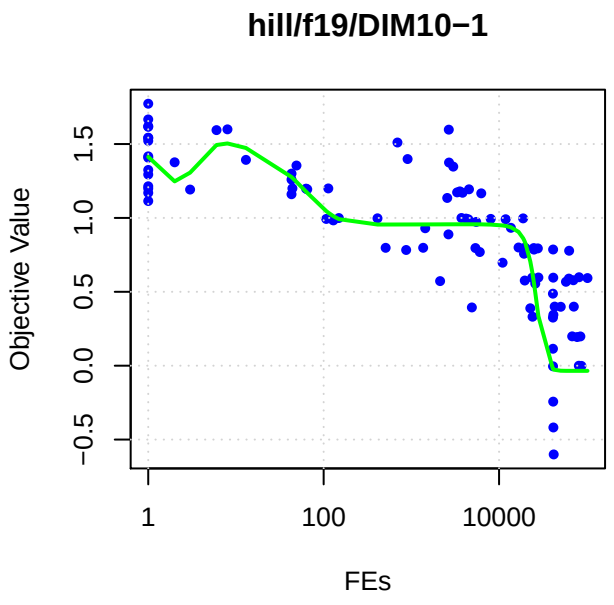
100
10000
FEs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Objective Value
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1.0
1.5
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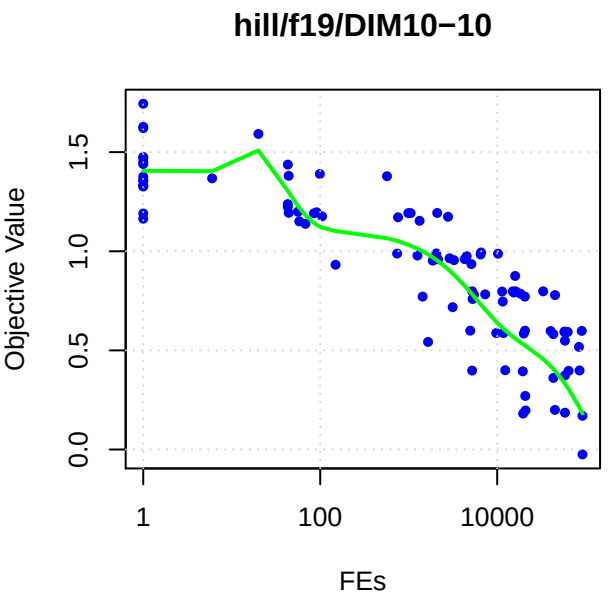
100
10000
FEs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Objective Value
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1.5
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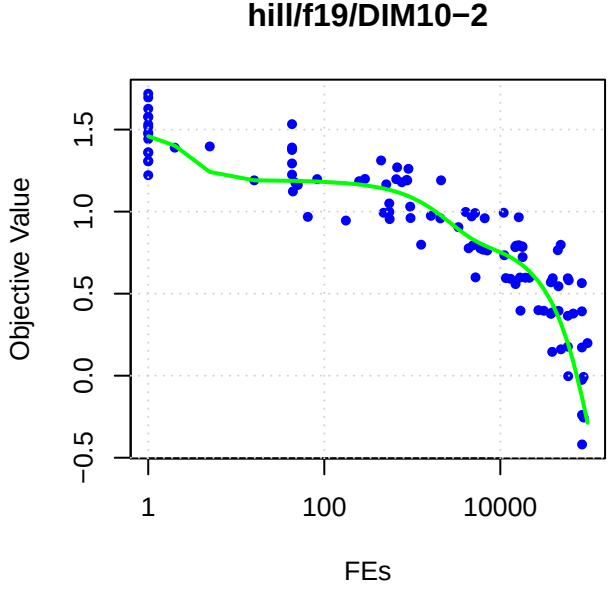
10000
FEs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Objective Value
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1.5
1
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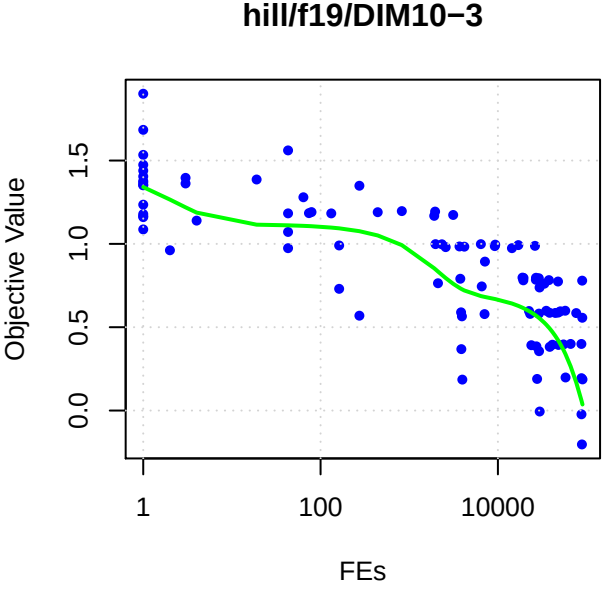
10000
FEs


hill/f19/DIM10−3
Objective Value
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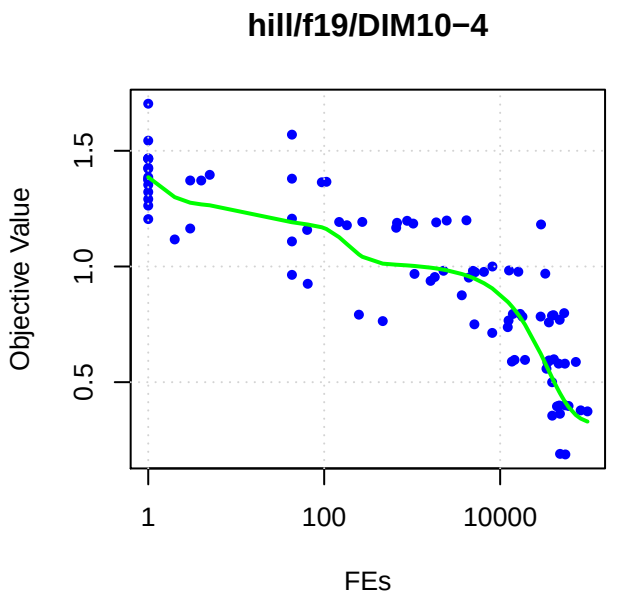
1.0
1.5
1
100
10000
FEs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Objective Value
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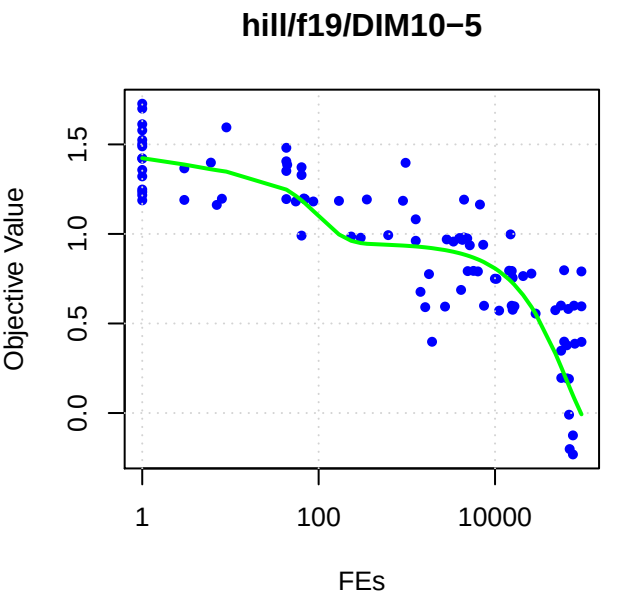
1.5
1
100
10000
FEs


hill/f19/DIM10−5
Objective Value
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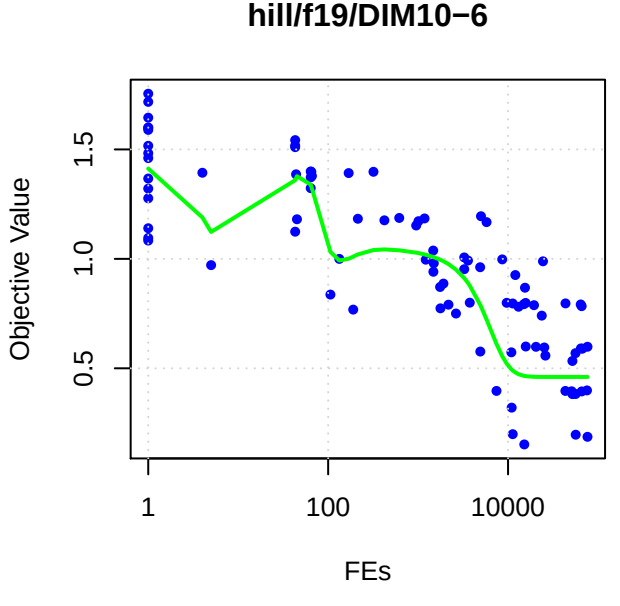
1.0
1.5
1
100
10000
FEs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Objective Value
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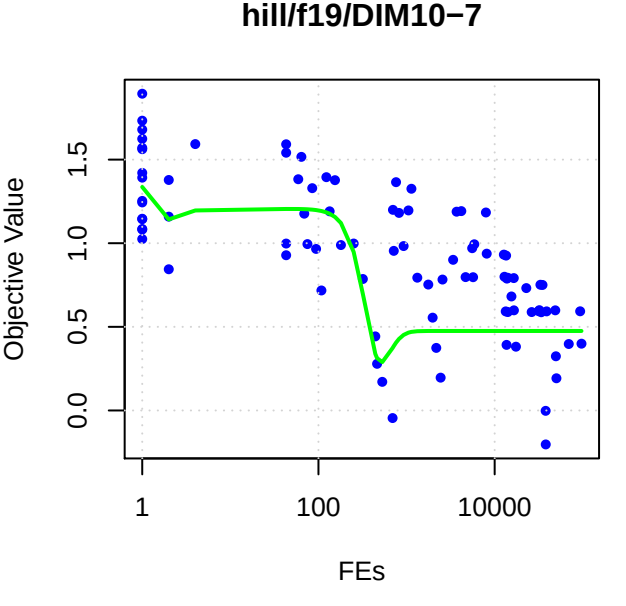
10000
FEs


hill/f19/DIM10−7
Objective Value
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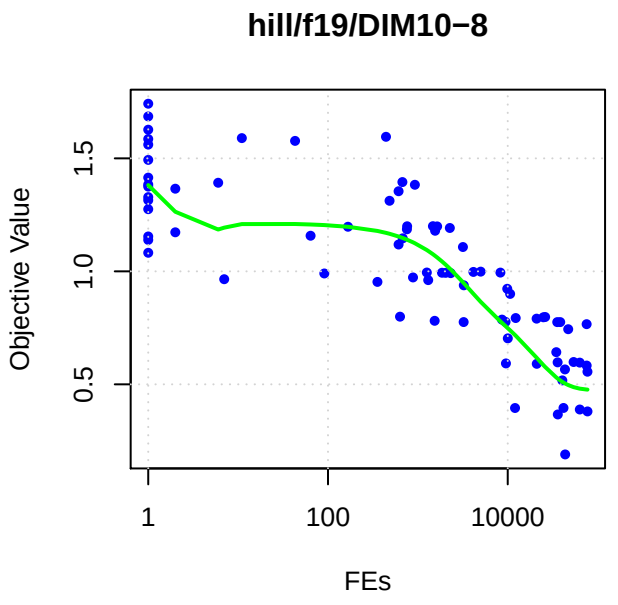
10000
FEs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Objective Value
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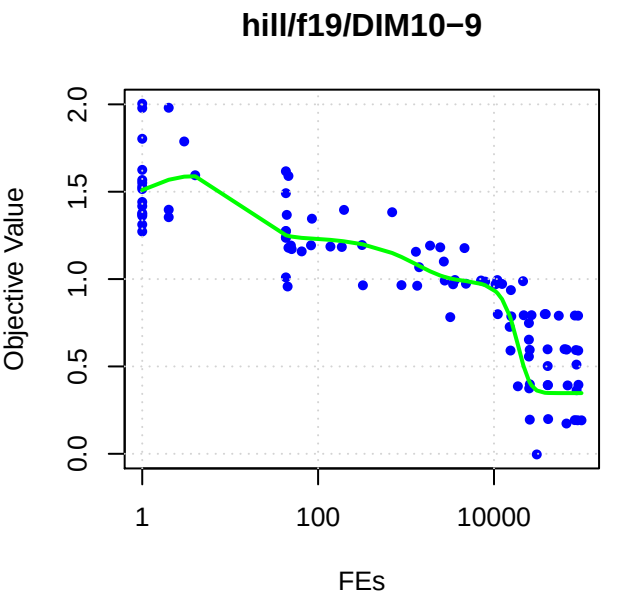
FEs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Objective Value
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1.5
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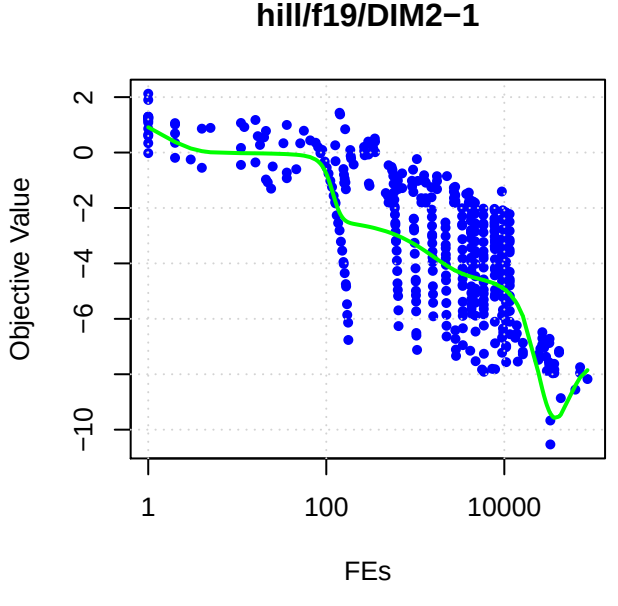
100
10000
FEs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Objective Value
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−10
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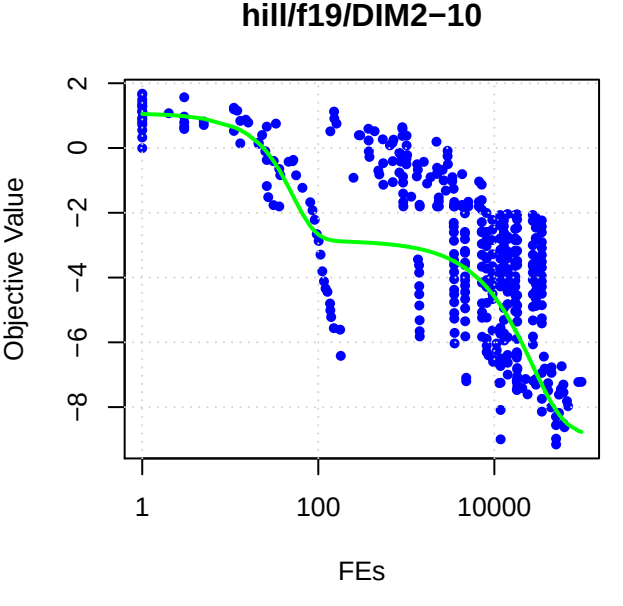
10000
FEs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Objective Value
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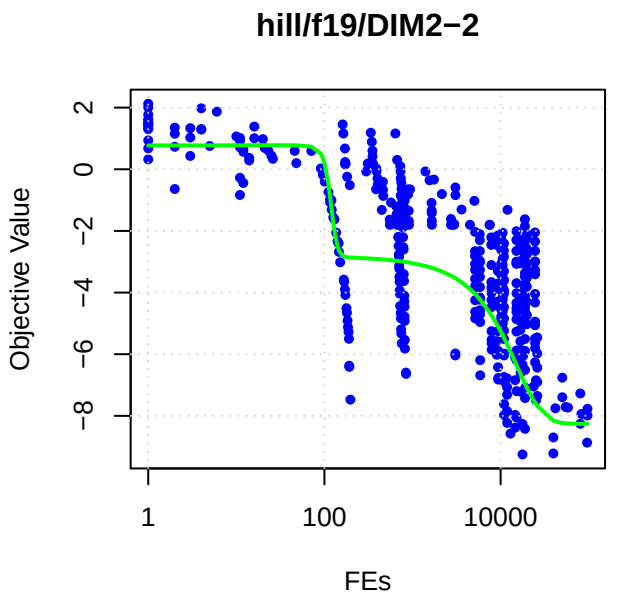
FEs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Objective Value
FEs
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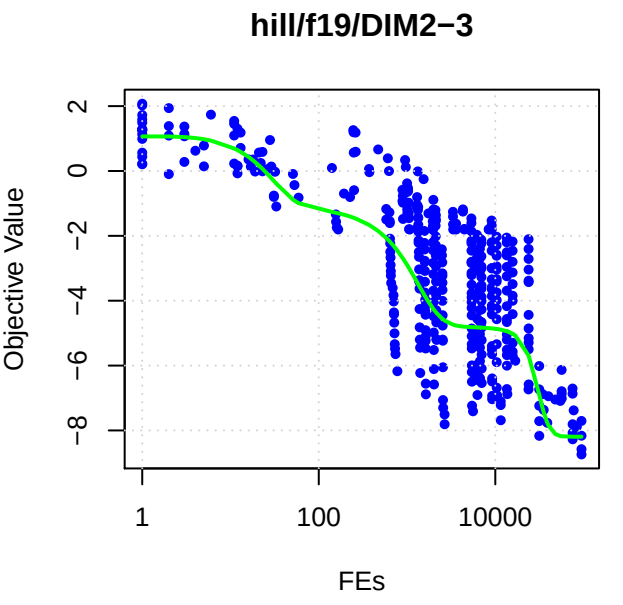
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Objective Value
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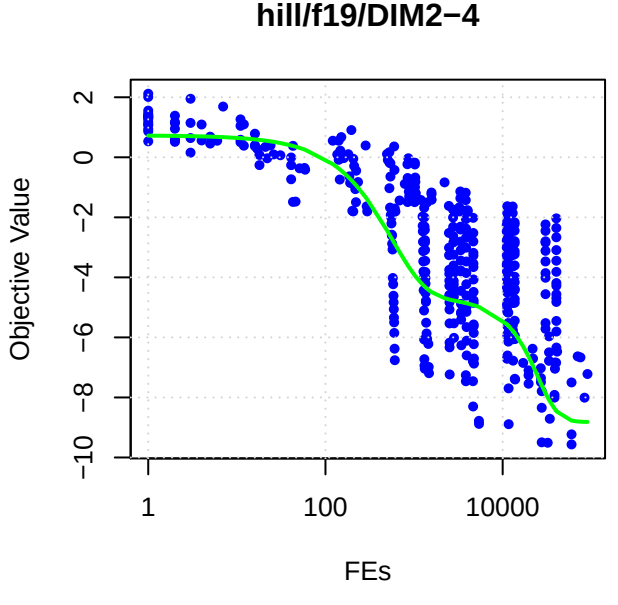
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Objective Value
FEs
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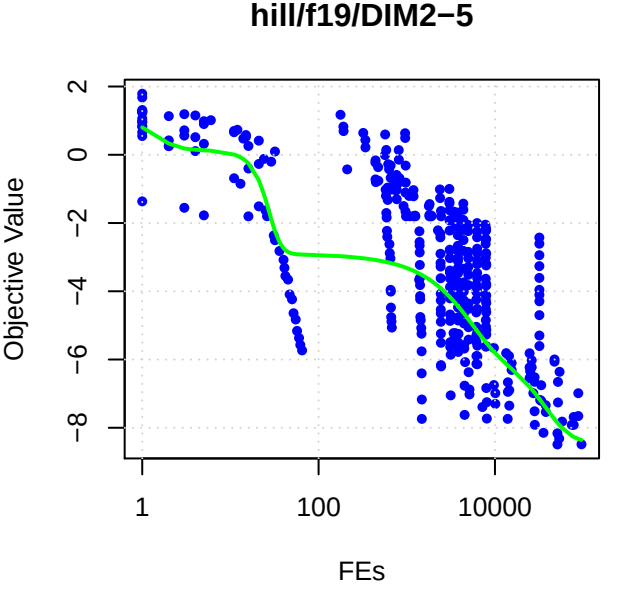
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Objective Value
FEs
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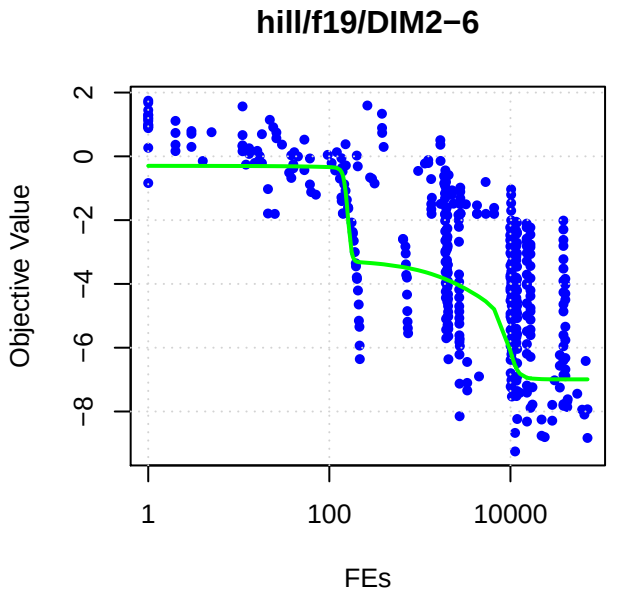
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Objective Value
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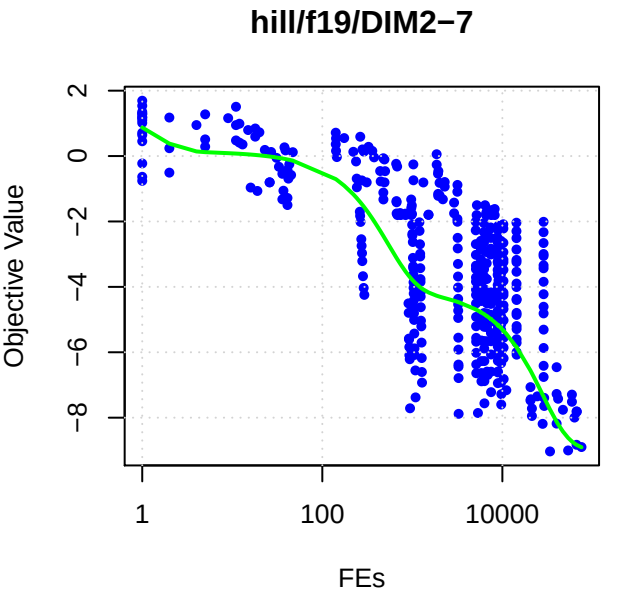
10000
FEs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Objective Value
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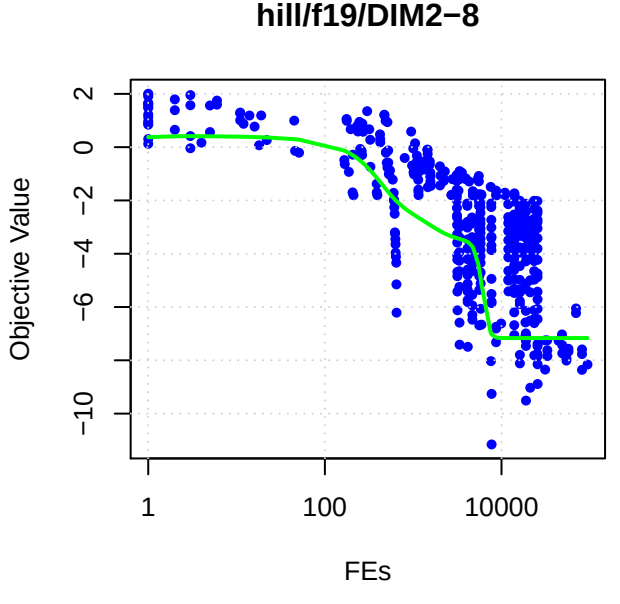
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Objective Value
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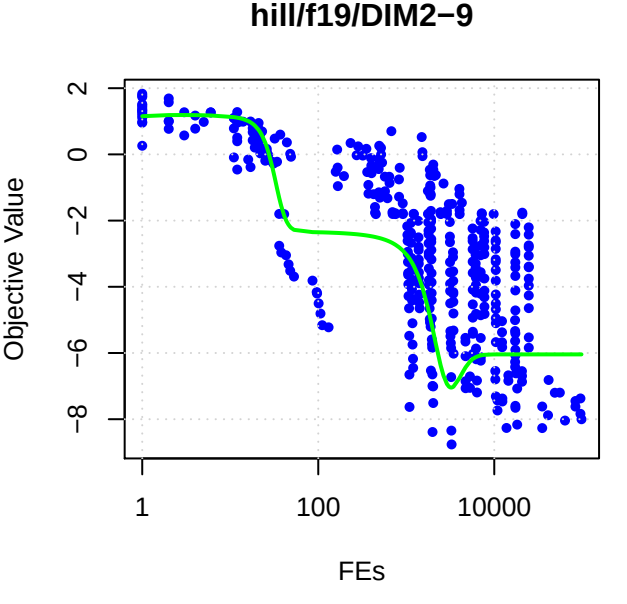
FEs


hill/f19/DIM2−9
Objective Value
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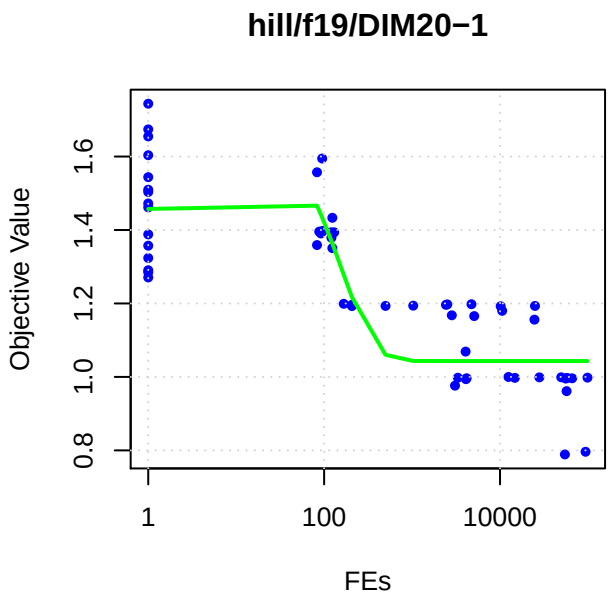
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Objective Value
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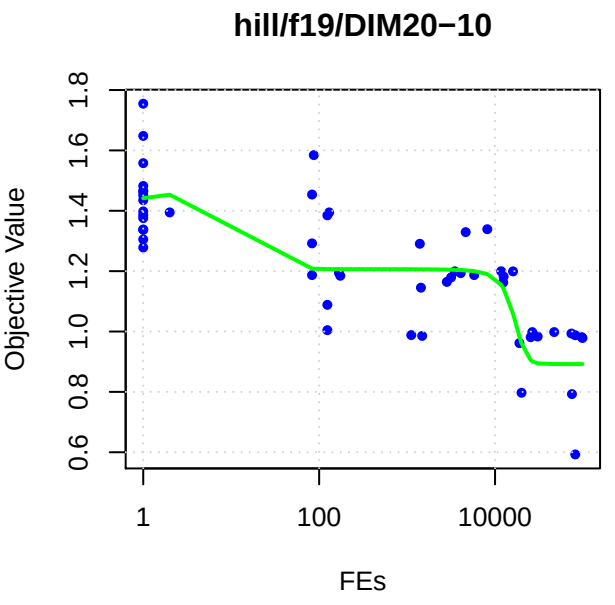
FEs


hill/f19/DIM20−10
Objective Value
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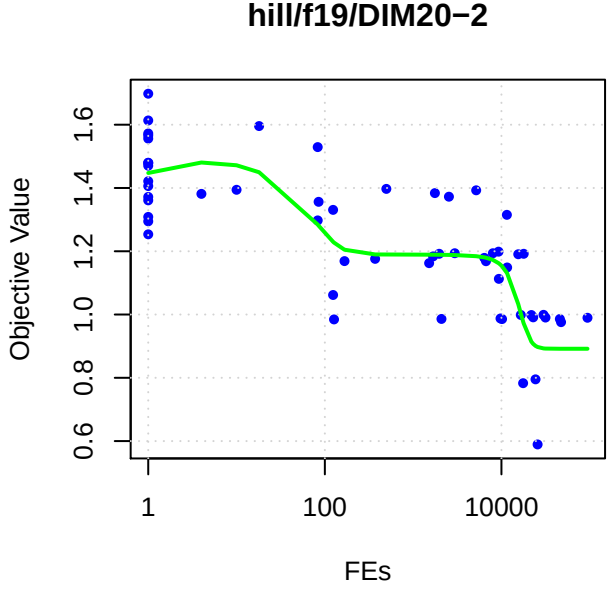
FEs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Objective Value
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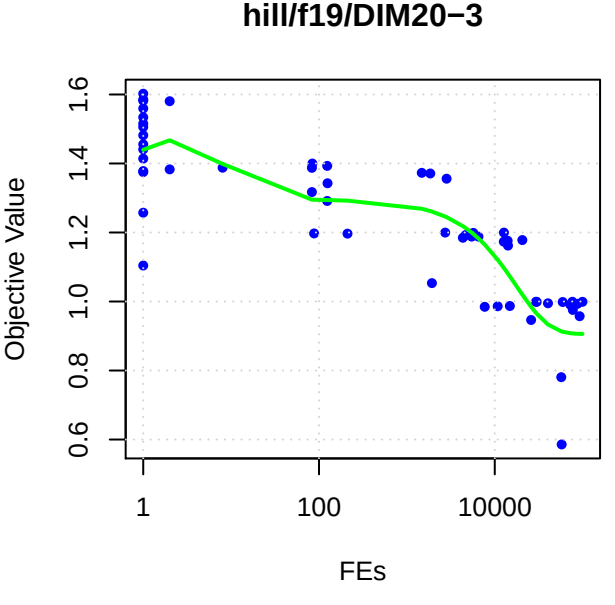
FEs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Objective Value
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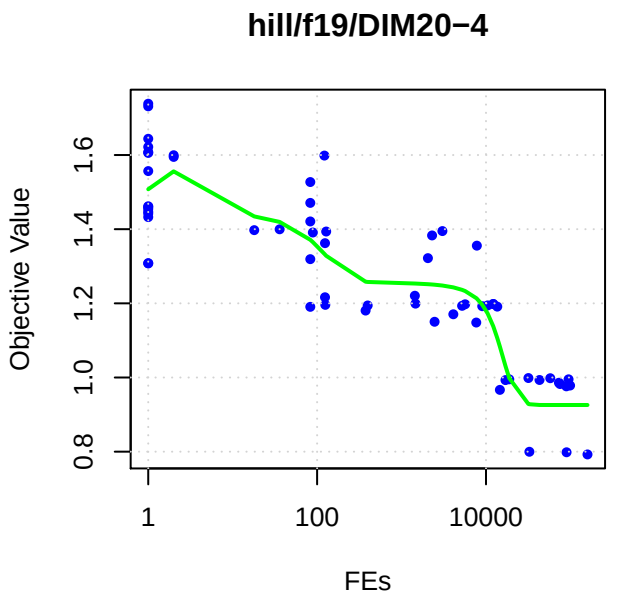
FEs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Objective Value
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1.2
1.4
1.6
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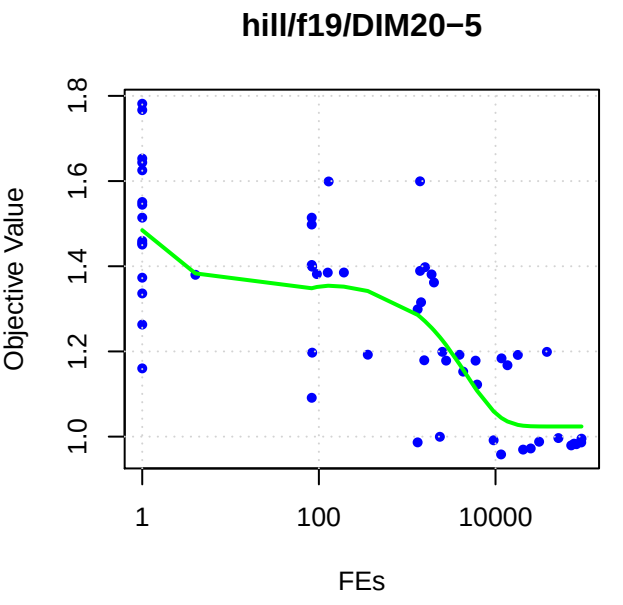
FEs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Objective Value
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1.6
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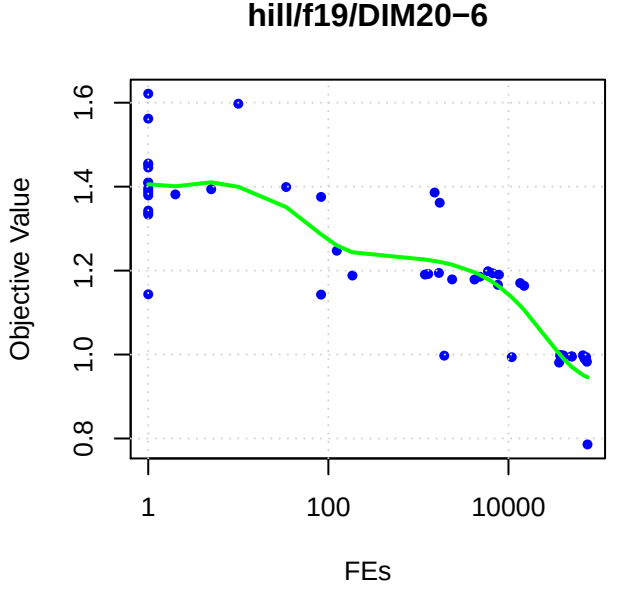
10000
FEs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Objective Value
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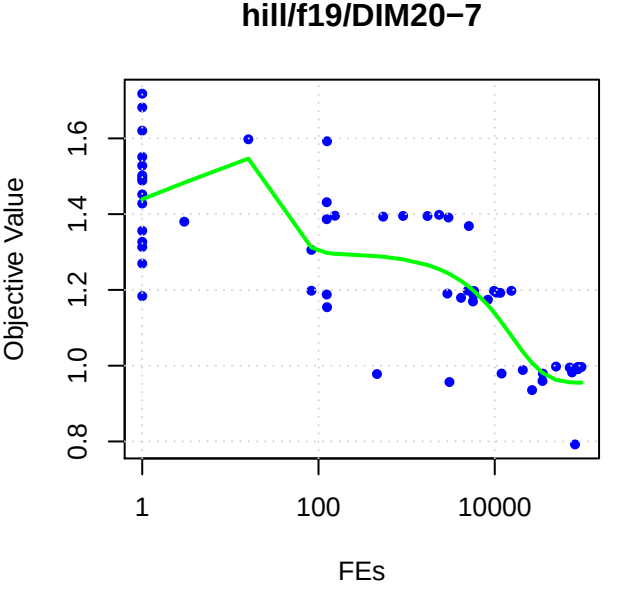
FEs


hill/f19/DIM20−7
Objective Value
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1.4
1.6
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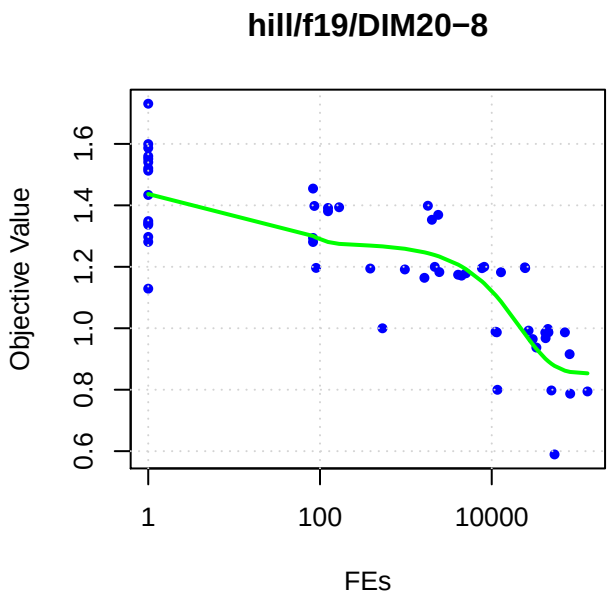
FEs


hill/f19/DIM20−8
Objective Value
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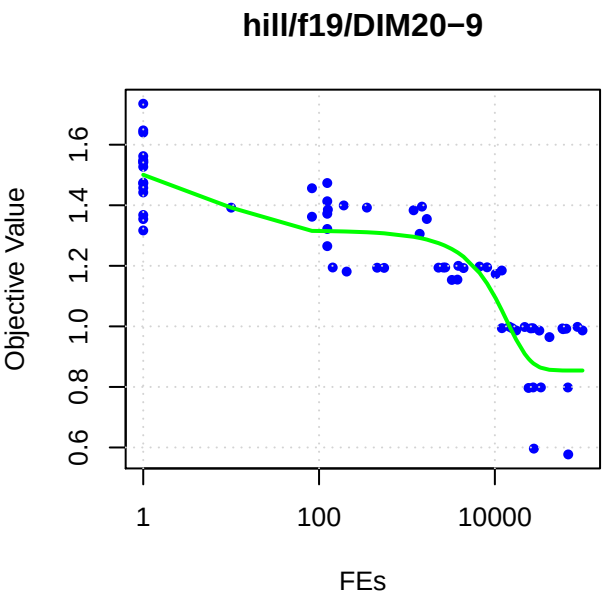
0.8
1.0
1.2
1.4
1.6
1
100
10000
FEs


hill/f19/DIM20−9
Objective Value
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0.8
1.0
1.2
1.4
1.6
1
100
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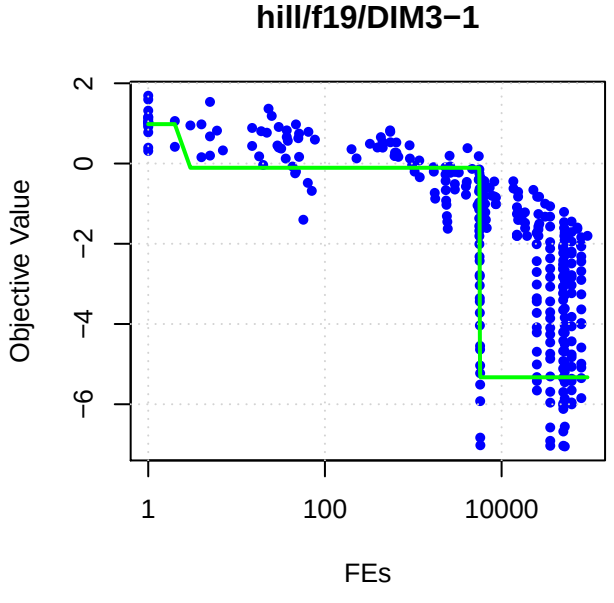
FEs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Objective Value
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−2
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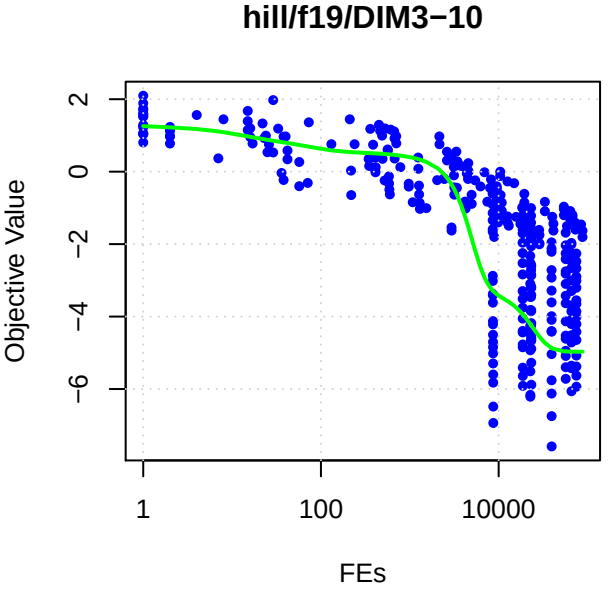
2
1
100
10000
FEs


hill/f19/DIM3−10
Objective Value
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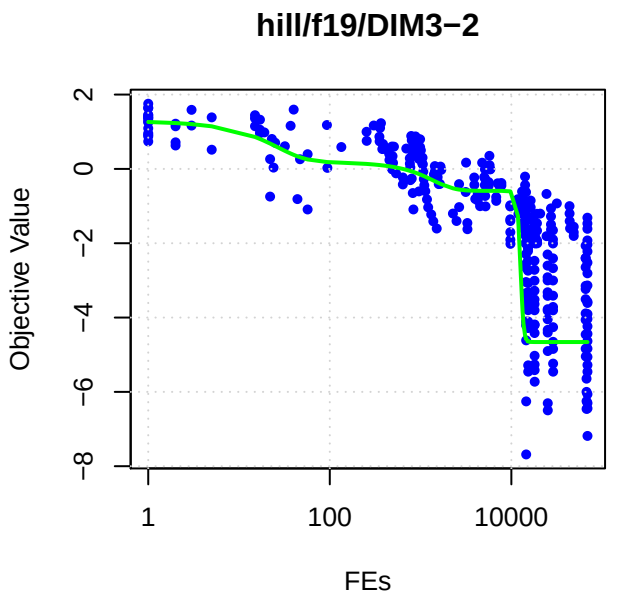
−4
−2
0
2
1
100
10000
FEs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Objective Value
FEs
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−4
−6
−8
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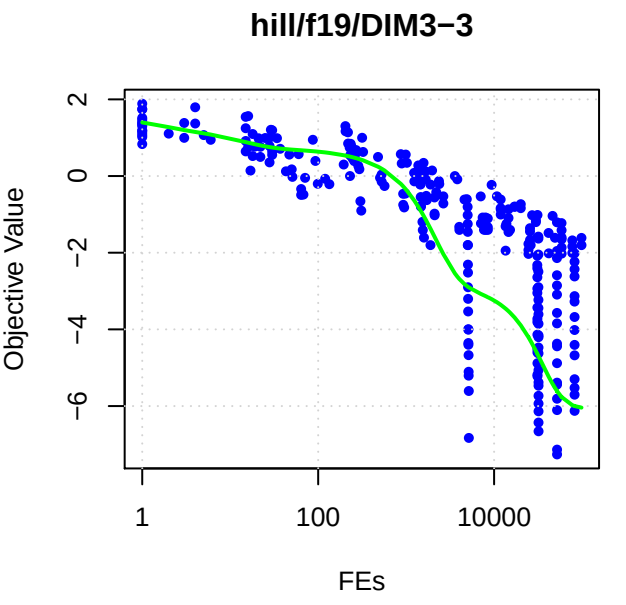
100
10000


hill/f19/DIM3−3
Objective Value
FEs
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−4
−6
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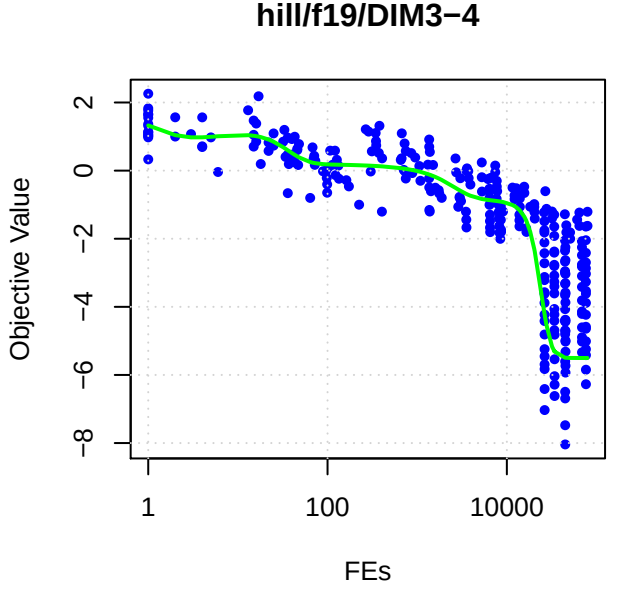
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Objective Value
FEs
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−6
−8
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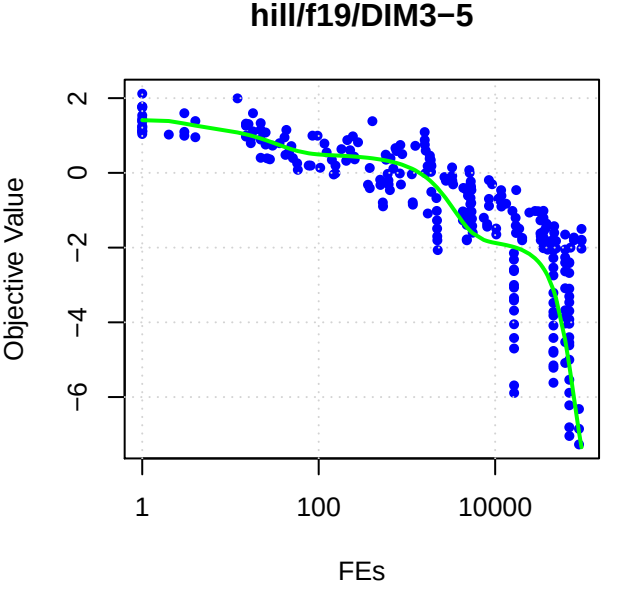
hill/f19/DIM3−5
Objective Value
FEs
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−2
−4
−6
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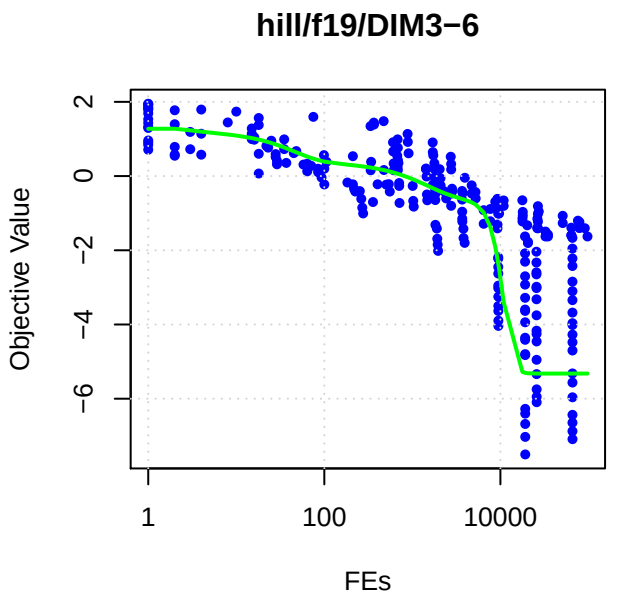
hill/f19/DIM3−6
Objective Value
FEs
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−2
−4
−6
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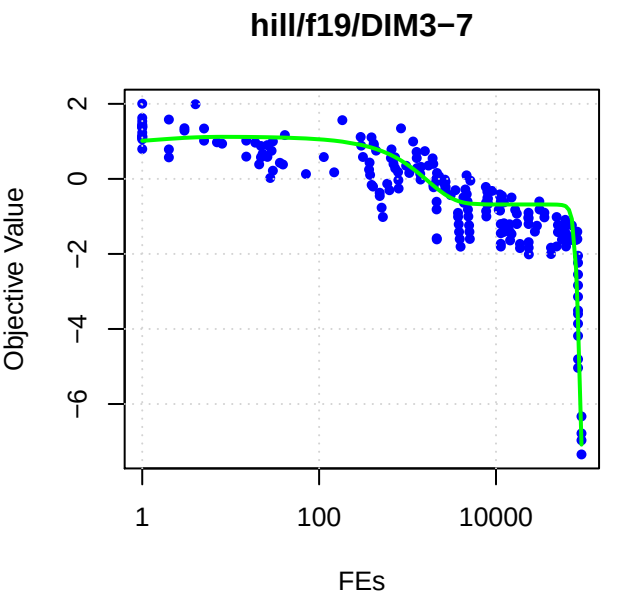
10000


hill/f19/DIM3−7
Objective Value
FEs
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−4
−6
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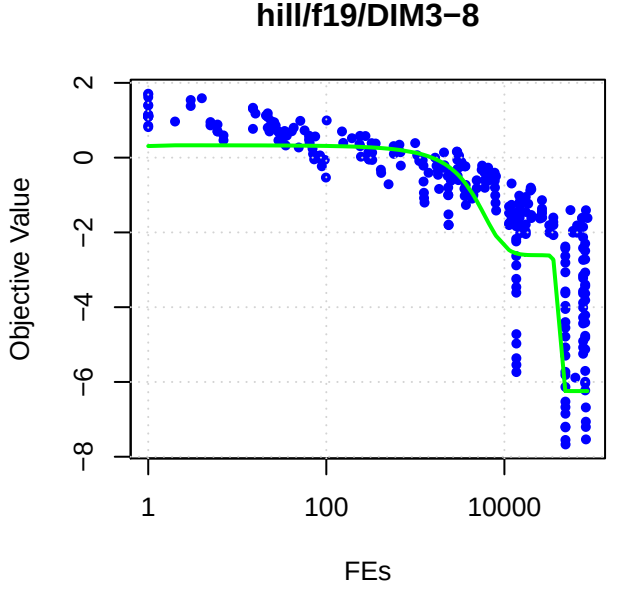
hill/f19/DIM3−8
Objective Value
FEs
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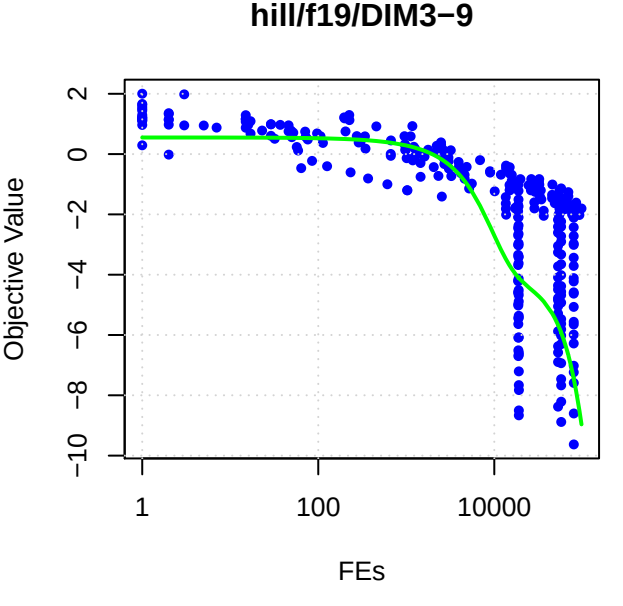
0
−2
−4
−6
−8
1
100
10000


hill/f19/DIM3−9
Objective Value
FEs
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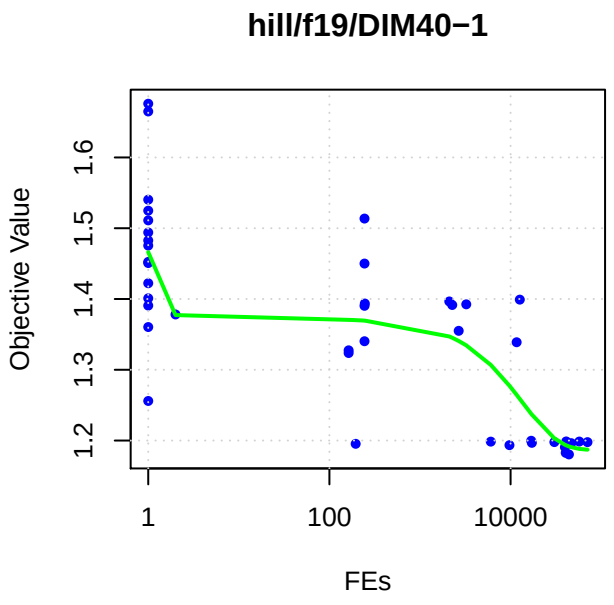
0
−2
−4
−6
−8
−10
1
100
10000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Objective Value
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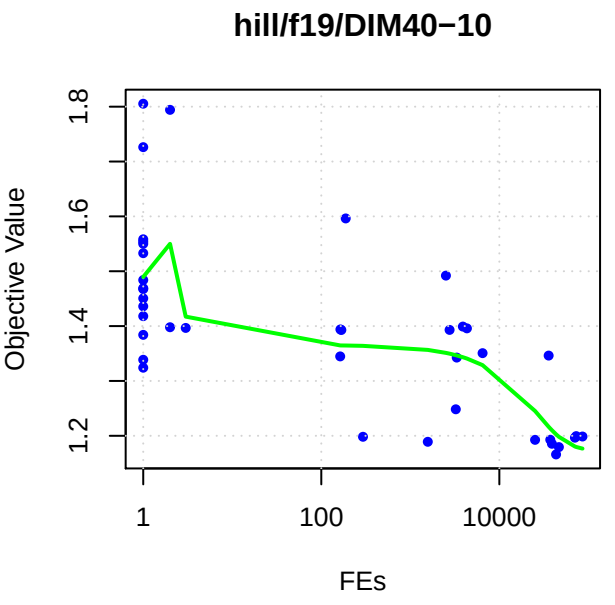
1.3
1.4
1.5
1.6
1
100
10000
FEs


hill/f19/DIM40−10
Objective Value
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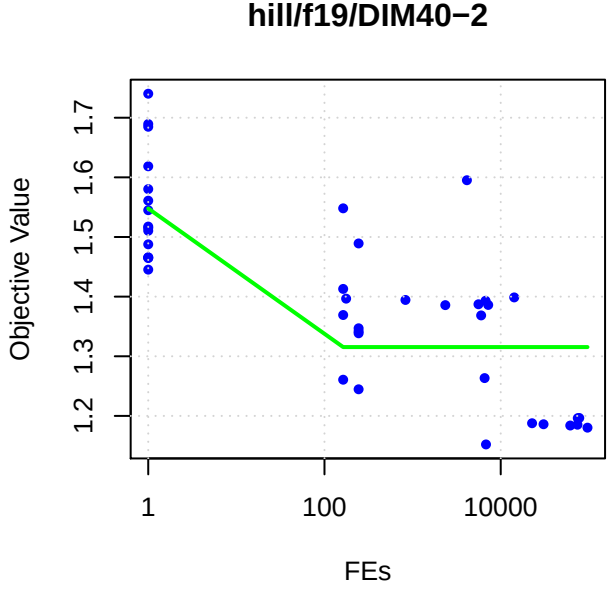
1.4
1.6
1.8
1
100
10000
FEs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Objective Value
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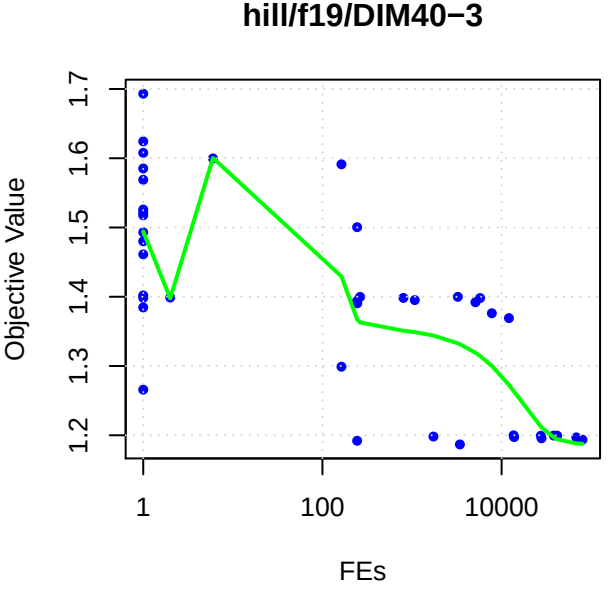
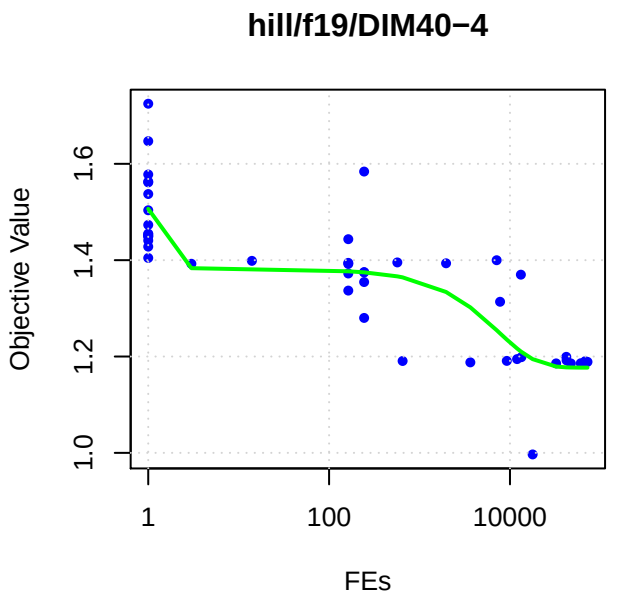
1.4
1.5
1.6
1.7
1
100
10000
FEs


hill/f19/DIM40−3
Objective Value
1.2
1.3
1.4
1.5
1.6
1.7
1
100
10000
FEs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Objective Value
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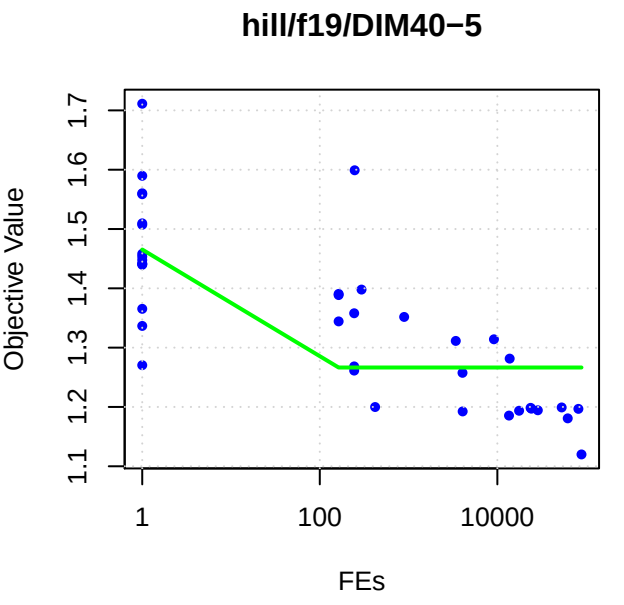
1.2
1.4
1.6
1
100
10000
FEs


hill/f19/DIM40−5
Objective Value
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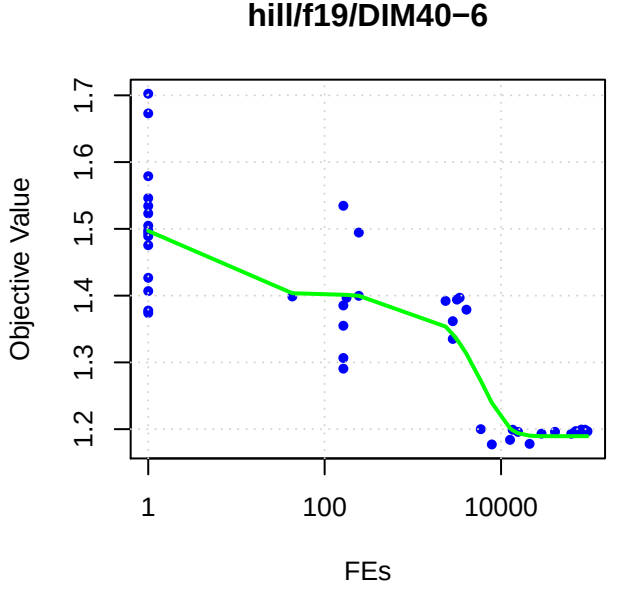
1.2
1.3
1.4
1.5
1.6
1.7
1
100
10000
FEs


hill/f19/DIM40−6
Objective Value
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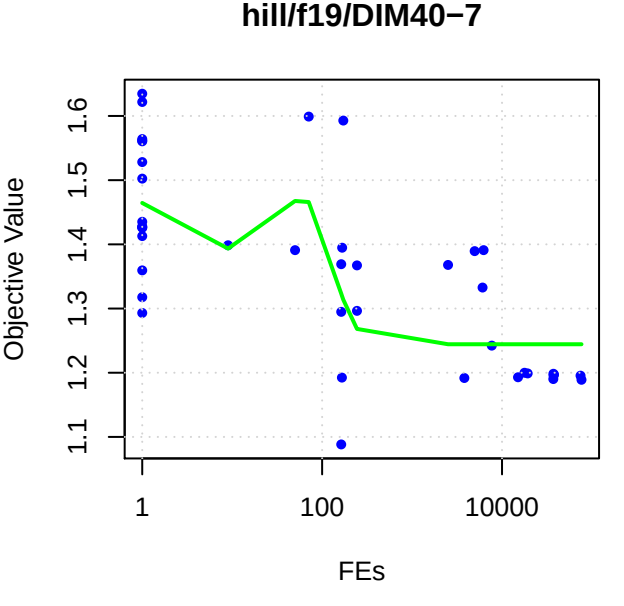
1.3
1.4
1.5
1.6
1.7
1
100
10000
FEs


hill/f19/DIM40−7
Objective Value
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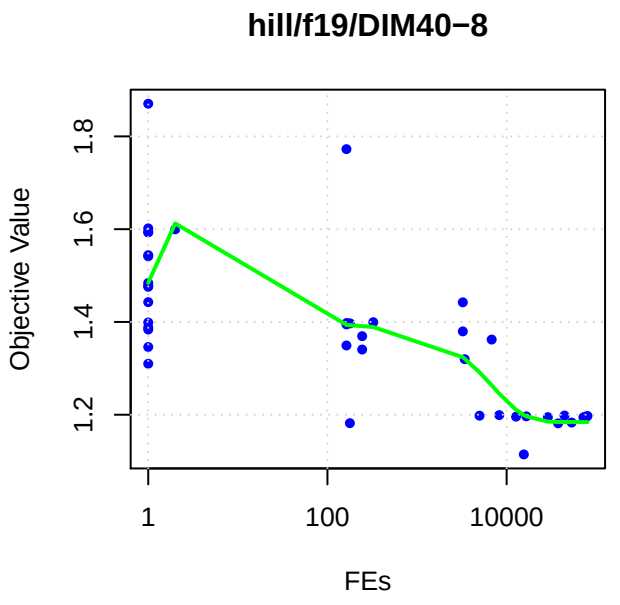
1.2
1.3
1.4
1.5
1.6
1
100
10000
FEs


hill/f19/DIM40−8
Objective Value
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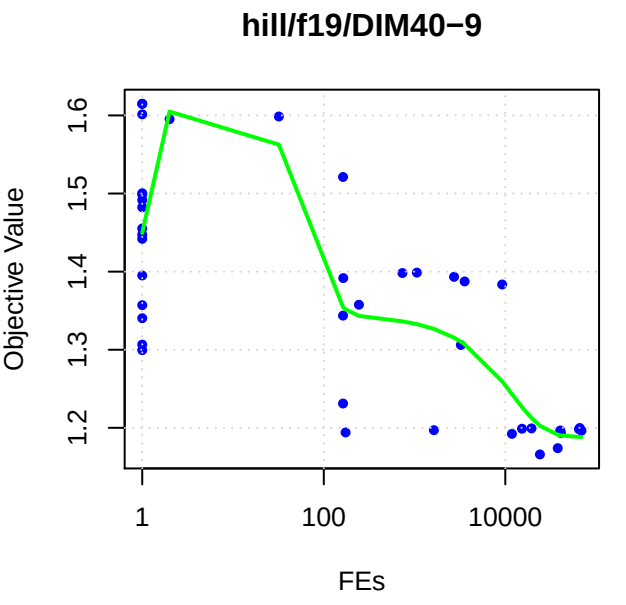
1.4
1.6
1.8
1
100
10000
FEs


hill/f19/DIM40−9
Objective Value
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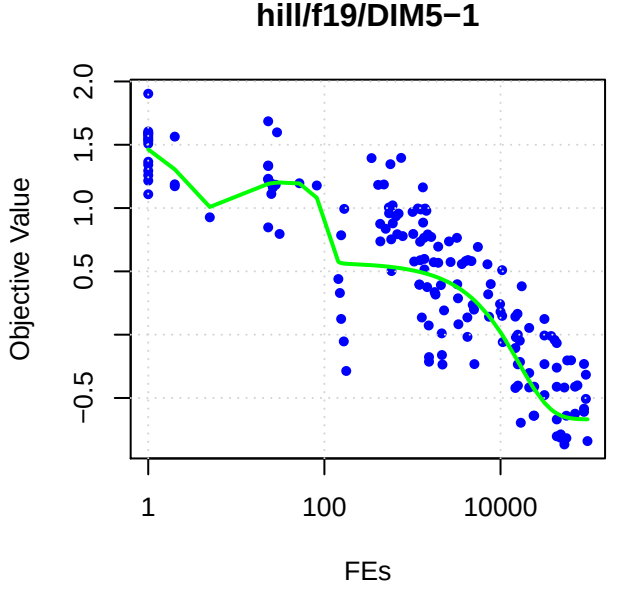
1.3
1.4
1.5
1.6
1
100
10000
FEs


hill/f19/DIM5−1
Objective Value
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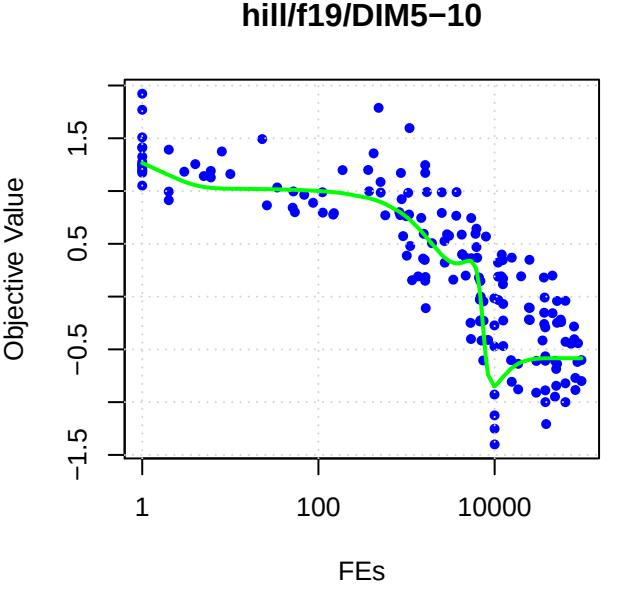
1.5
2.0
1
100
10000
FEs


hill/f19/DIM5−10
Objective Value
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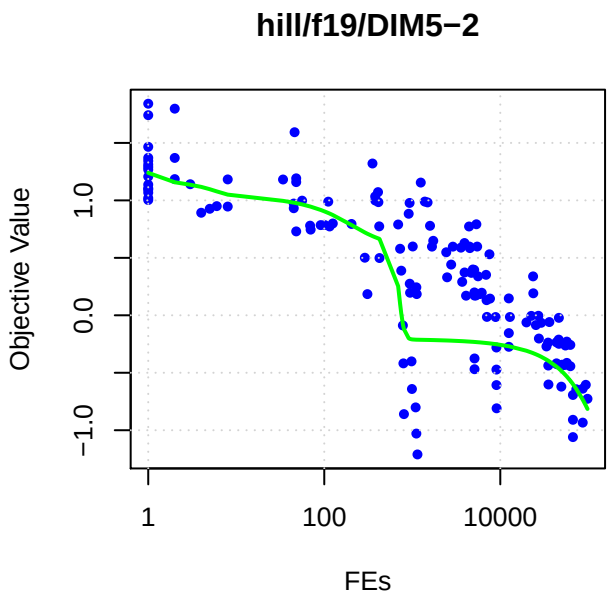
0.5
1.5
1
100
10000
FEs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Objective Value
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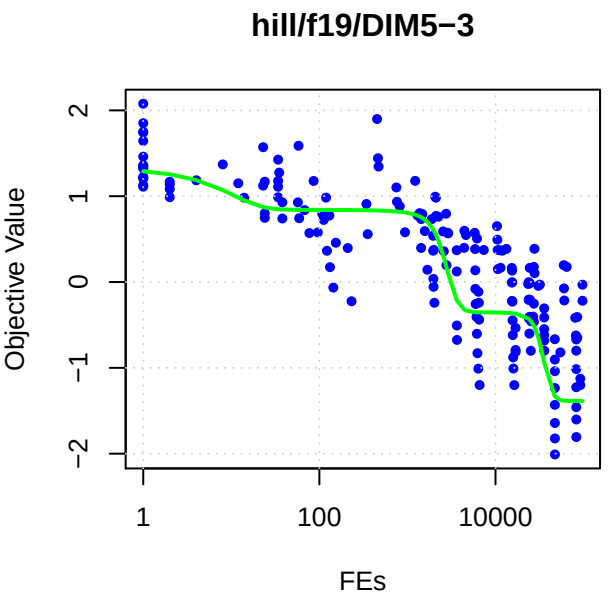
FEs


hill/f19/DIM5−3
Objective Value
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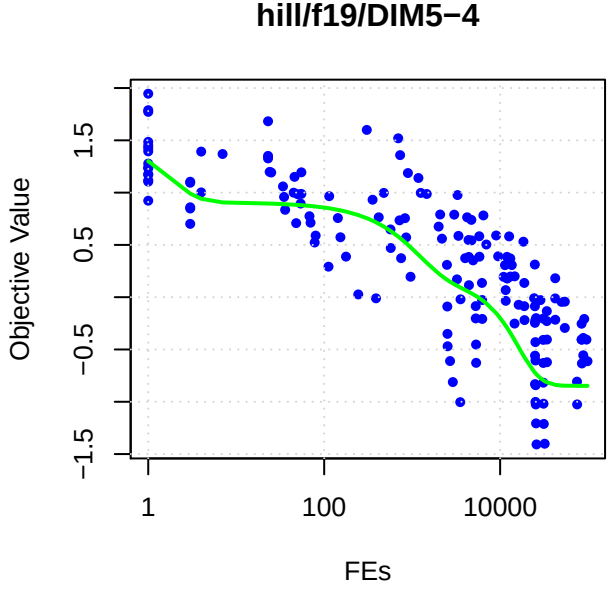
FEs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Objective Value
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−1.5
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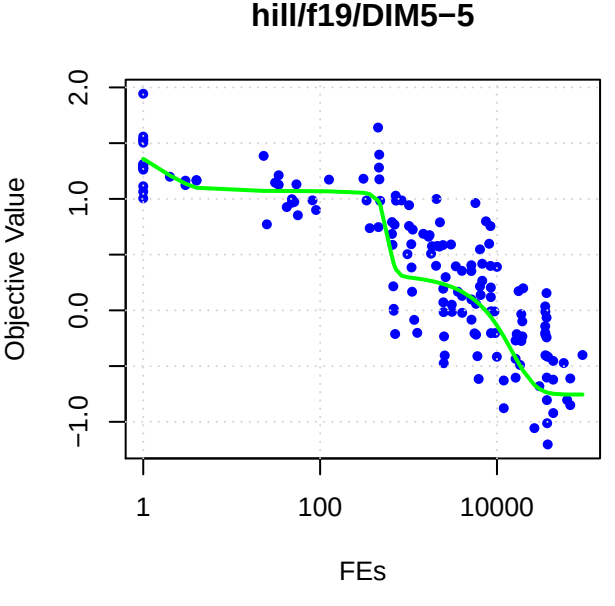
10000
FEs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Objective Value
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1.0
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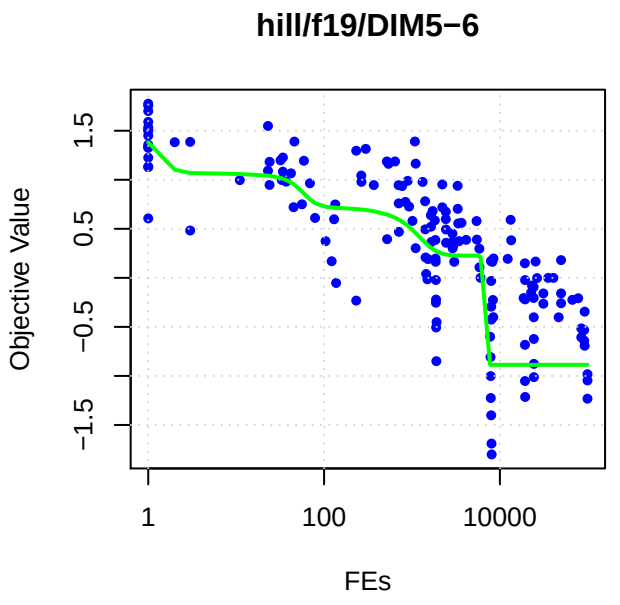
10000
FEs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Objective Value
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−1.5
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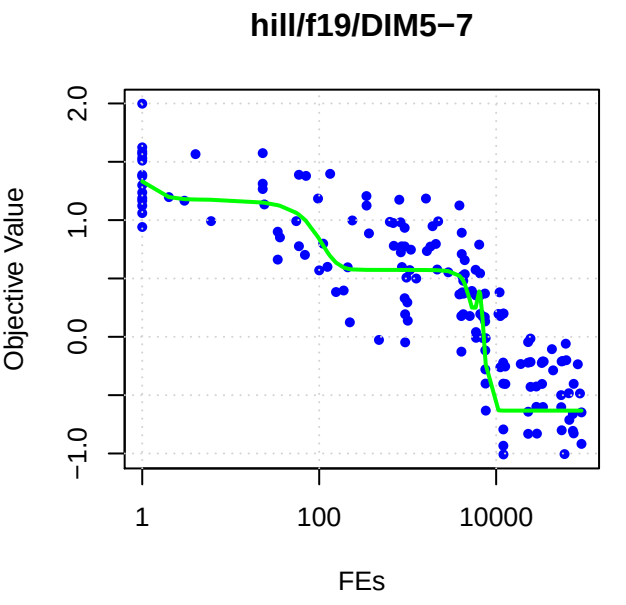
100
10000
FEs


hill/f19/DIM5−7
Objective Value
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−1.0
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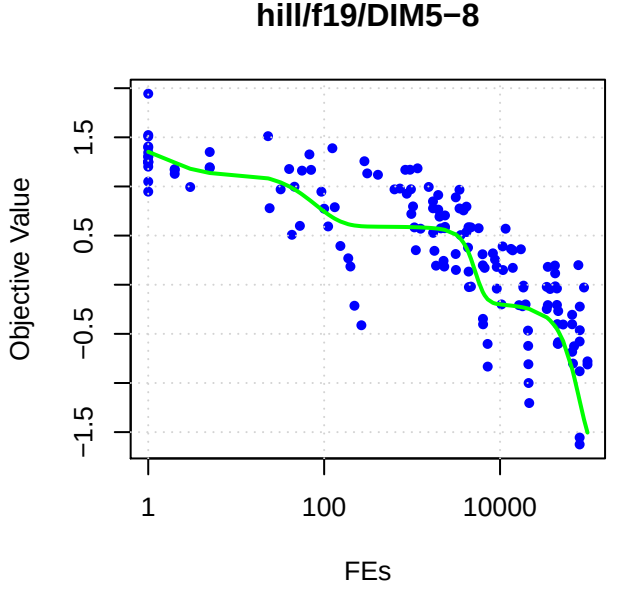
10000
FEs


hill/f19/DIM5−8
Objective Value
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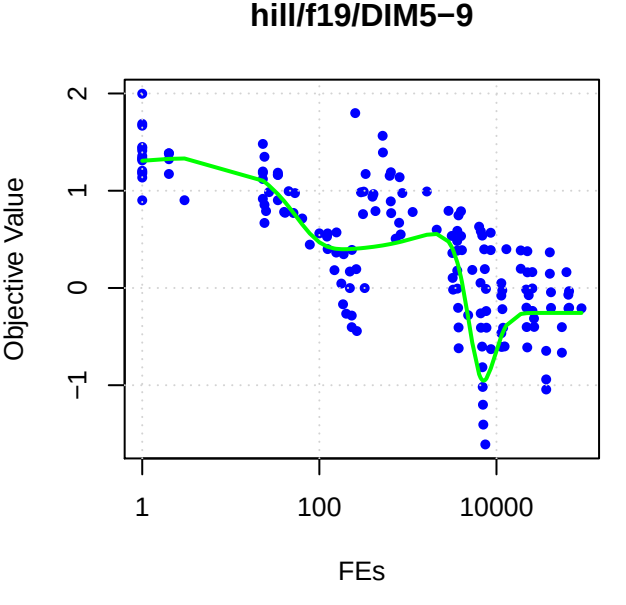
1
100
10000
FEs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Objective Value
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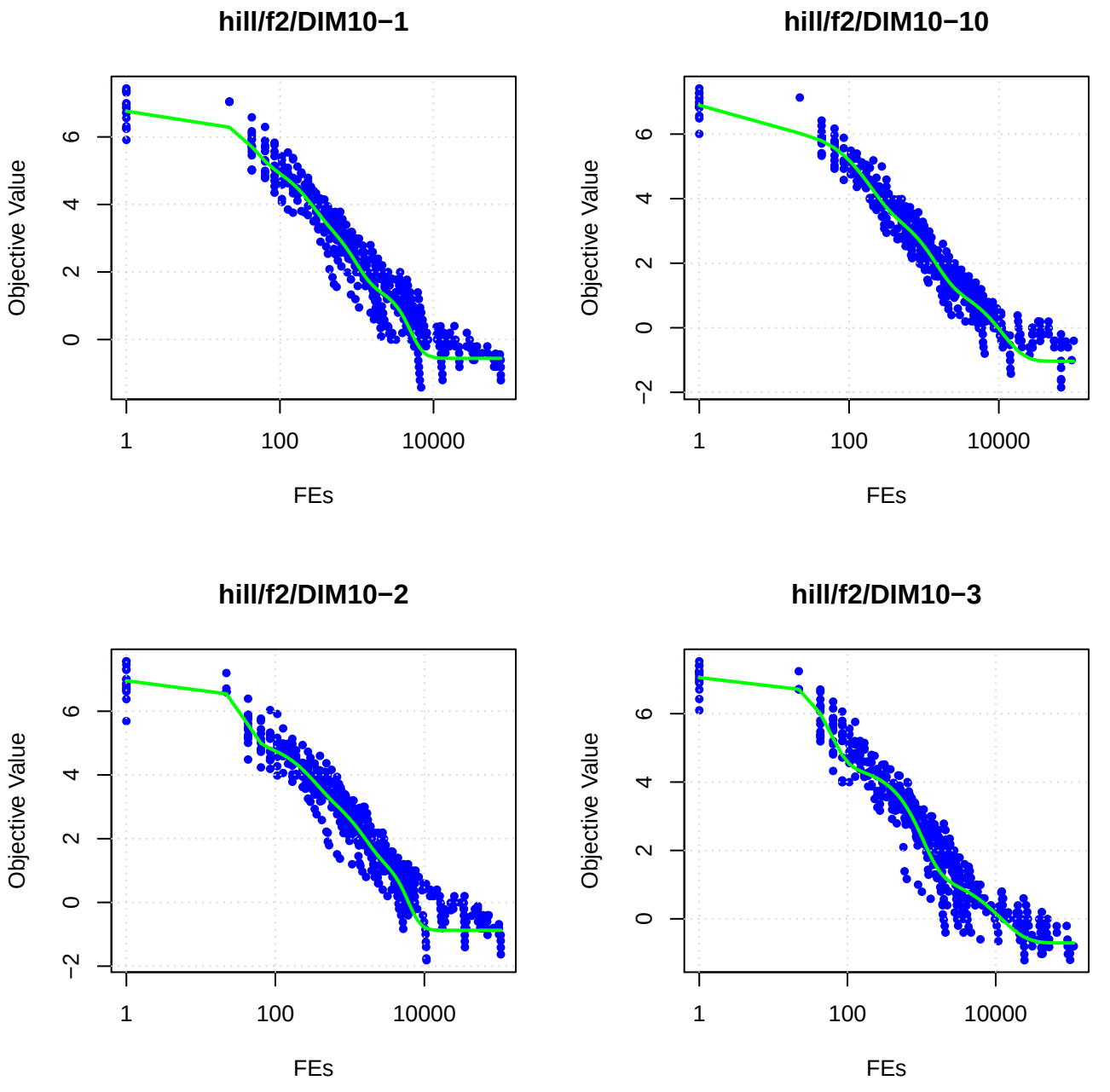
10000
FEs


hill/f2/DIM10−1
hill/f2/DIM10−10
hill/f2/DIM10−2
hill/f2/DIM10−3
Objective Value
FEs
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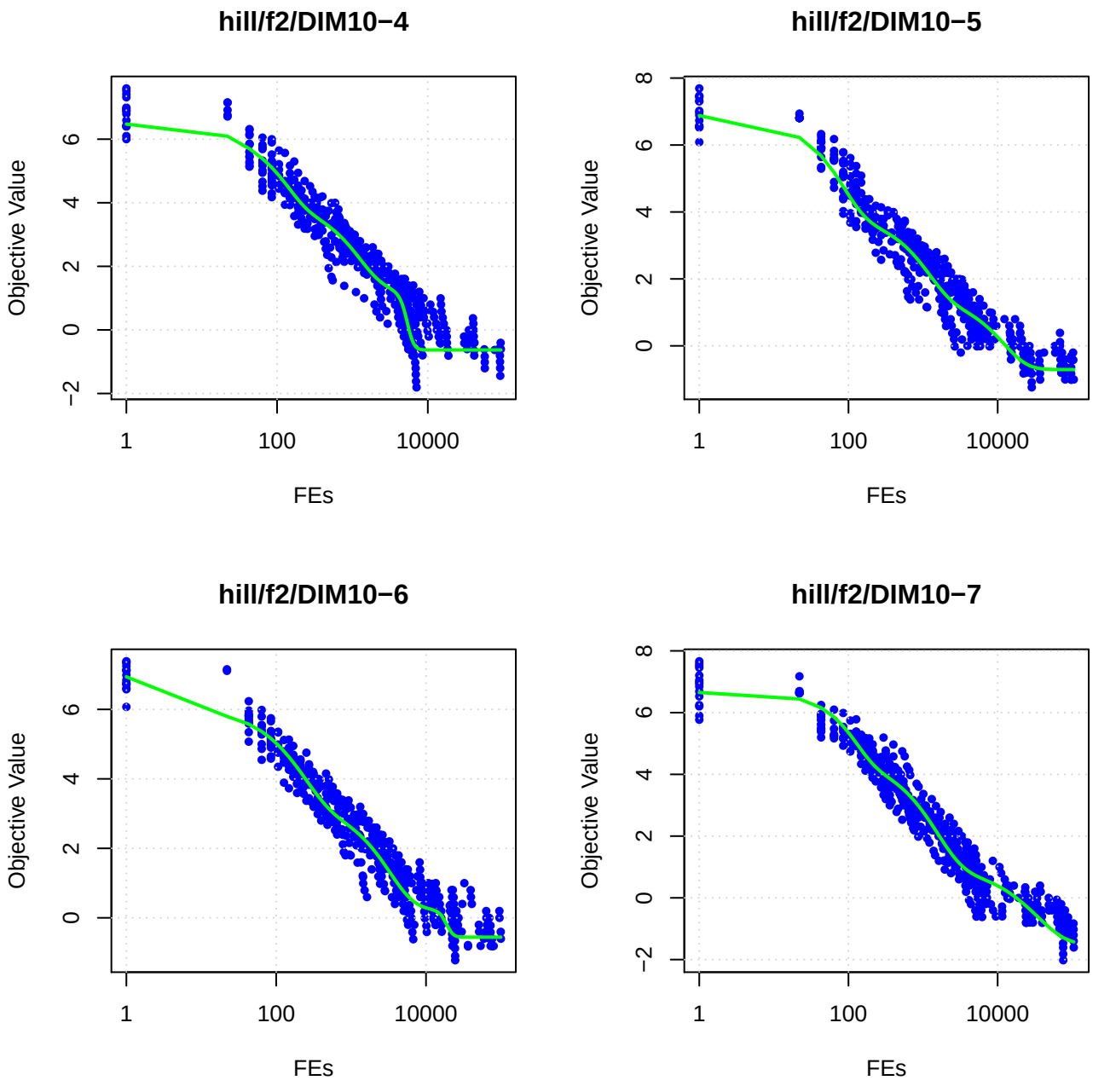
10000
0
2
4
6
−2


hill/f2/DIM10−4
hill/f2/DIM10−5
hill/f2/DIM10−6
hill/f2/DIM10−7
Objective Value
FEs
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10000
−2
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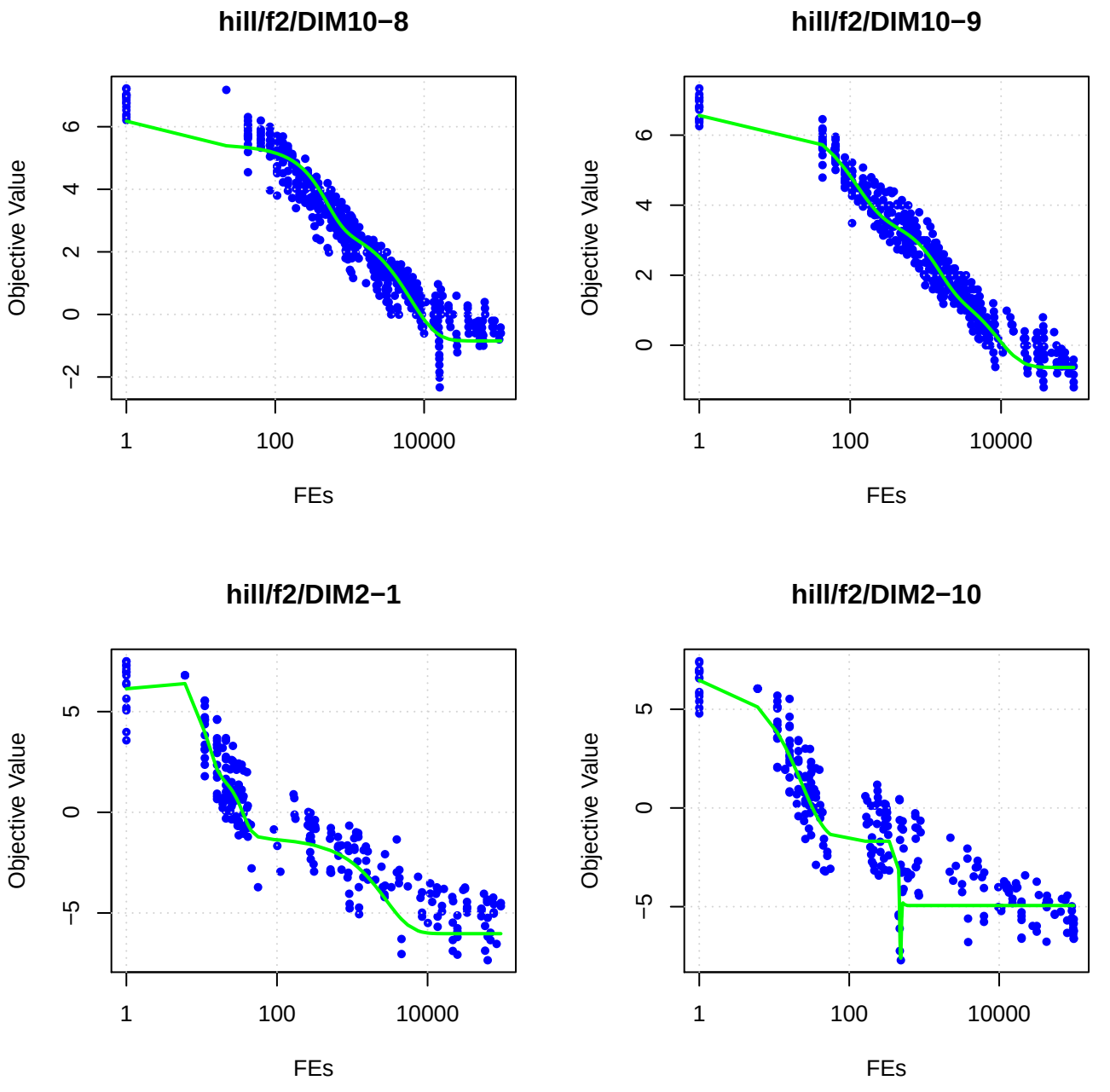
2
4
6
8


hill/f2/DIM10−8
hill/f2/DIM10−9
hill/f2/DIM2−1
hill/f2/DIM2−10
Objective Value
FEs
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−2
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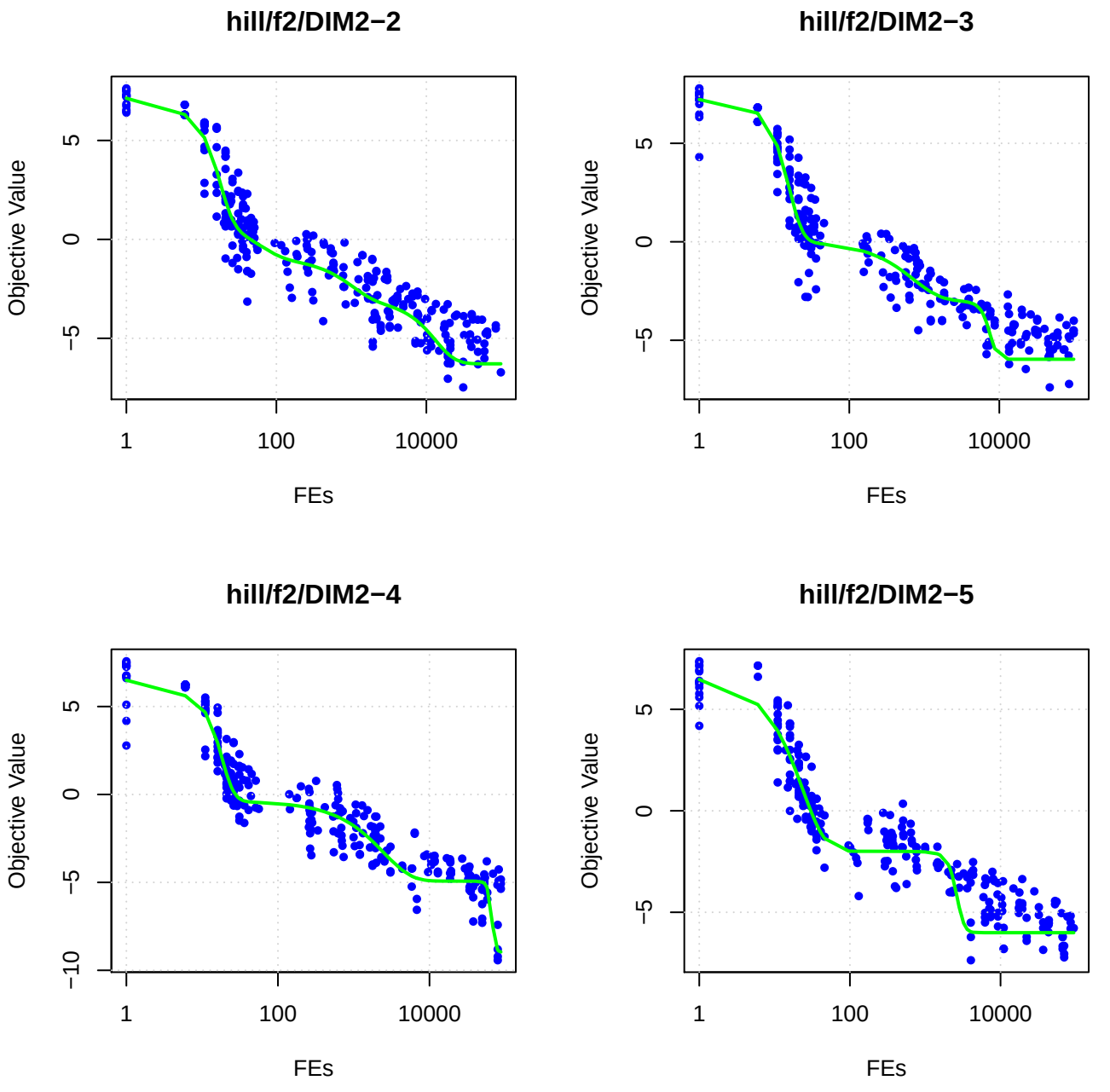
2
4
6
−5
5


hill/f2/DIM2−2
hill/f2/DIM2−3
hill/f2/DIM2−4
hill/f2/DIM2−5
Objective Value
FEs
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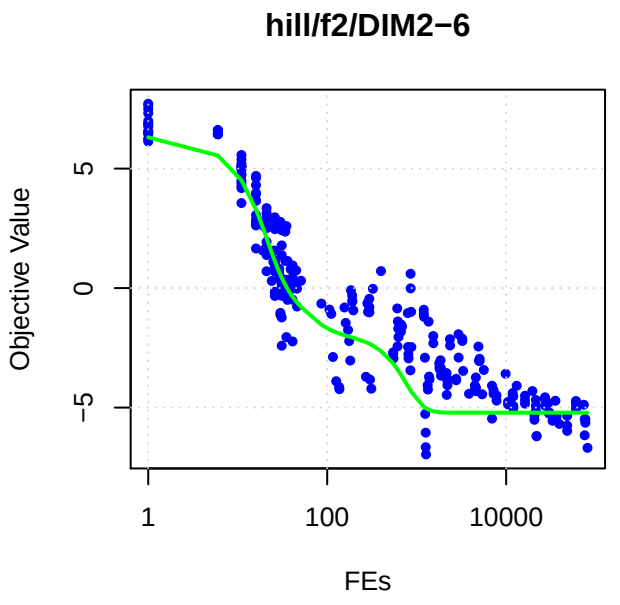
10000
5
0
−5
−10


hill/f2/DIM2−6
Objective Value
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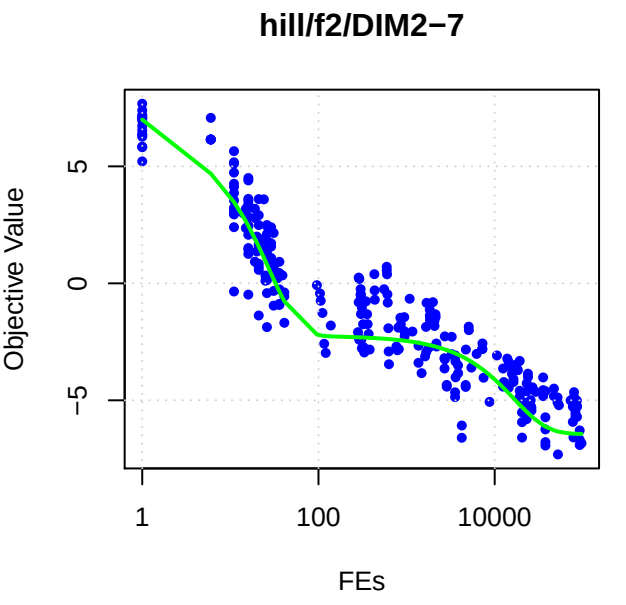
100
10000
FEs


hill/f2/DIM2−7
Objective Value
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−5
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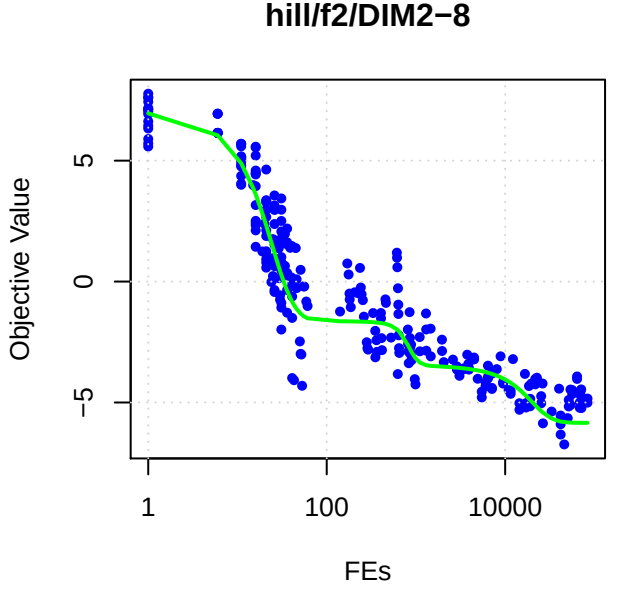
100
10000
FEs


hill/f2/DIM2−8
Objective Value
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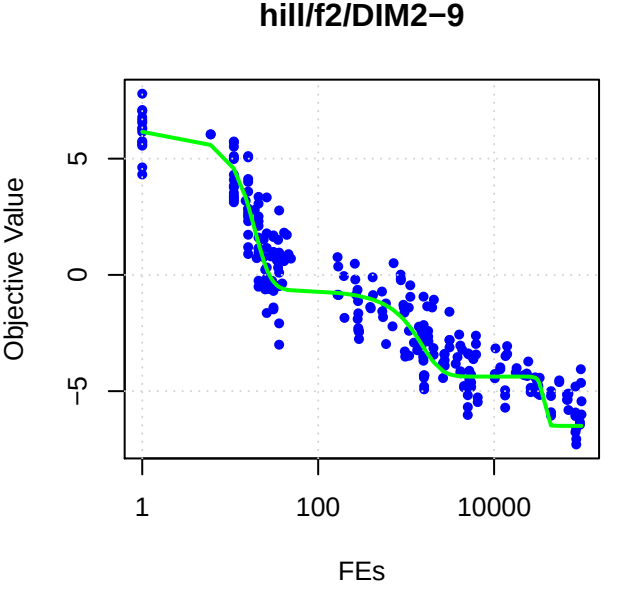
10000
FEs


hill/f2/DIM2−9
Objective Value
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−5
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100
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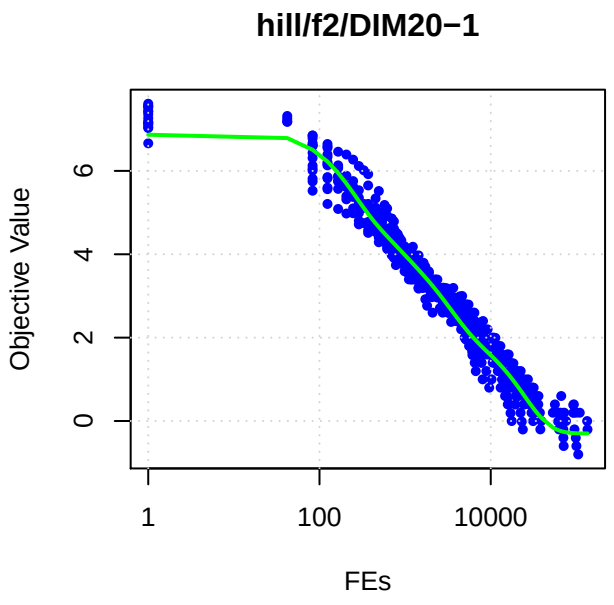
FEs


hill/f2/DIM20−1
Objective Value
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6
1
100
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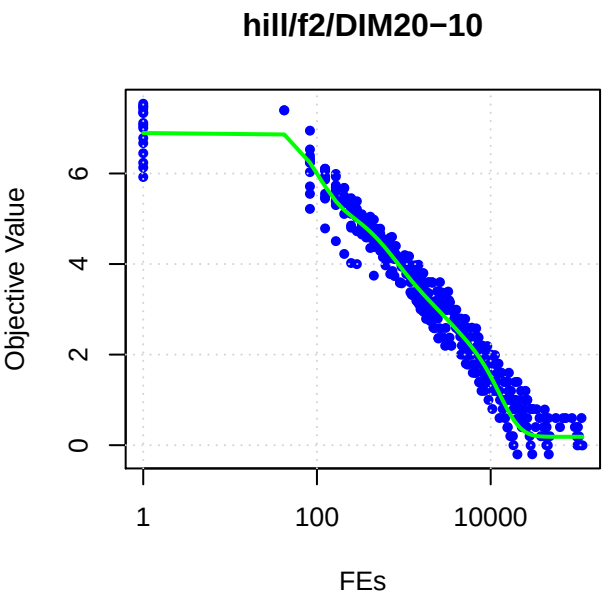
FEs


hill/f2/DIM20−10
Objective Value
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4
6
1
100
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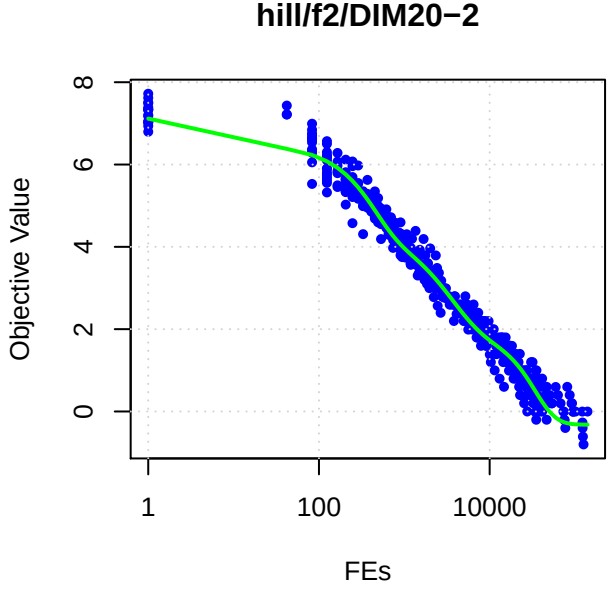
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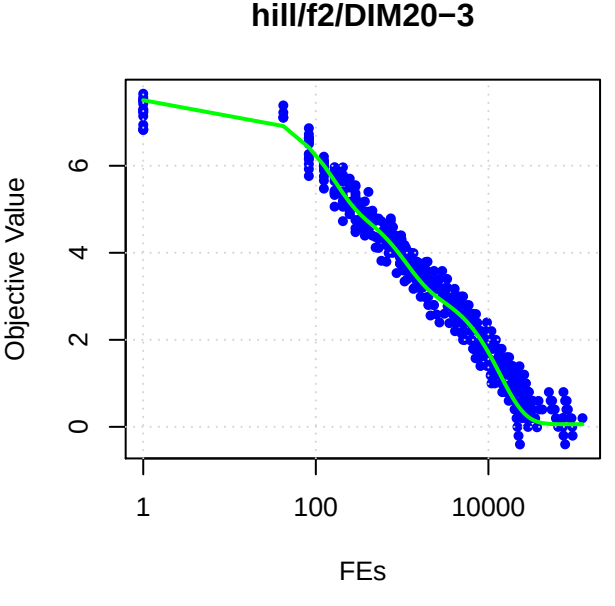
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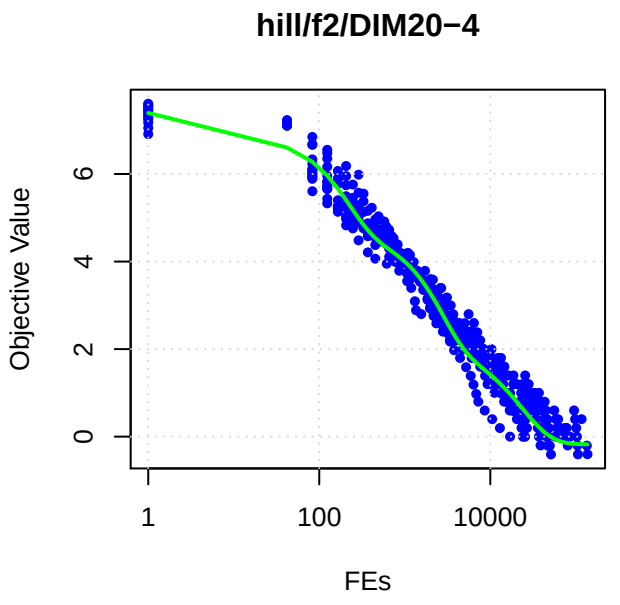
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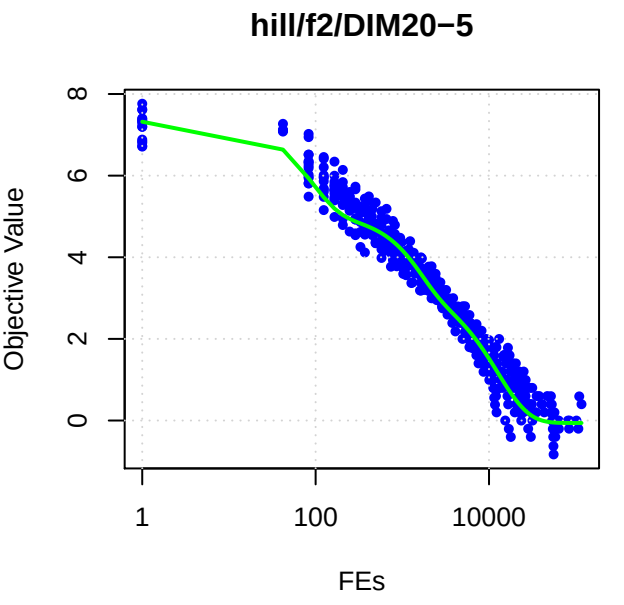
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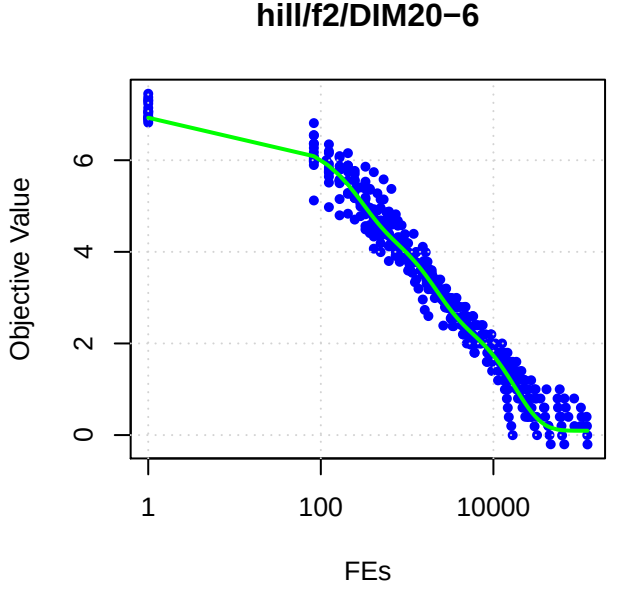
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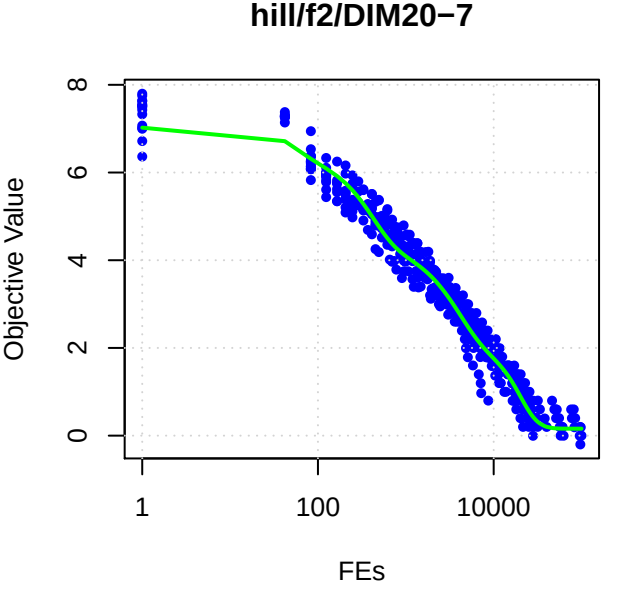
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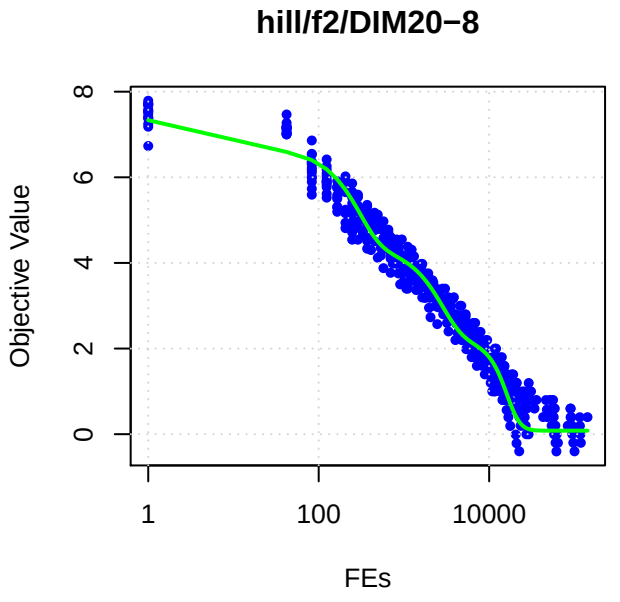
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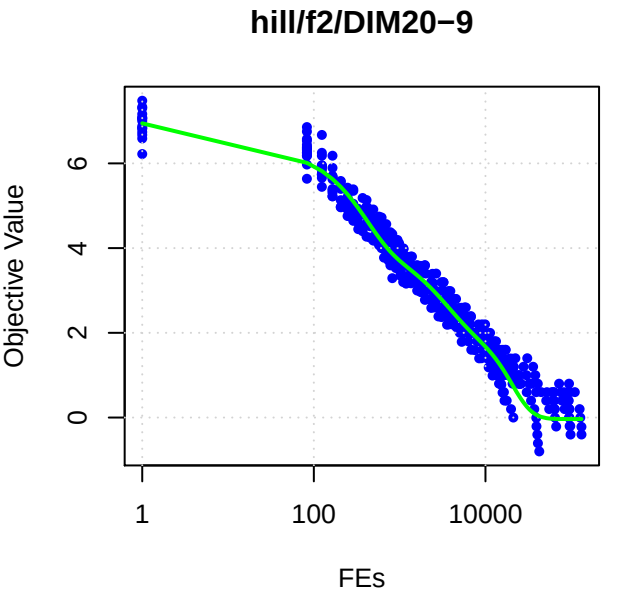
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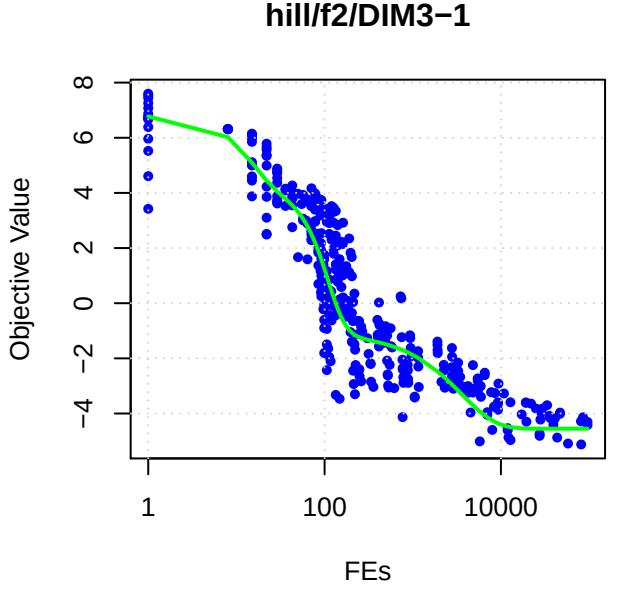
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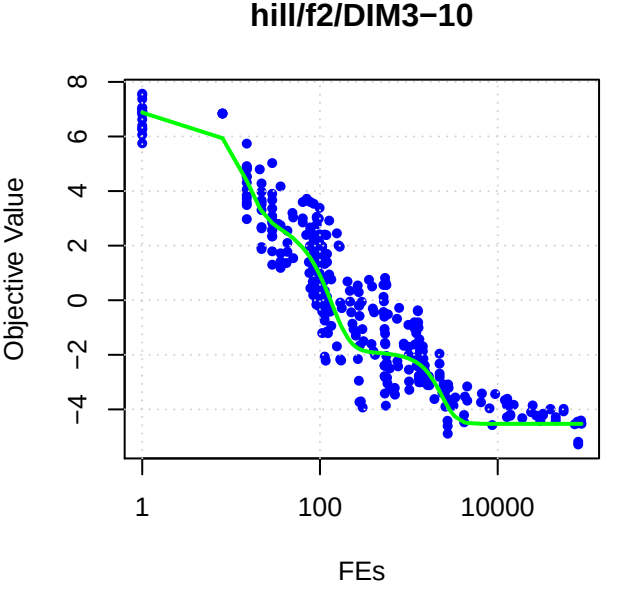
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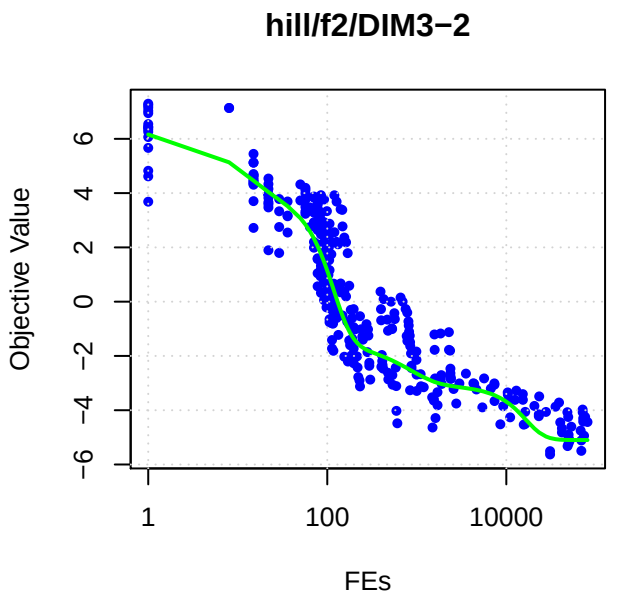
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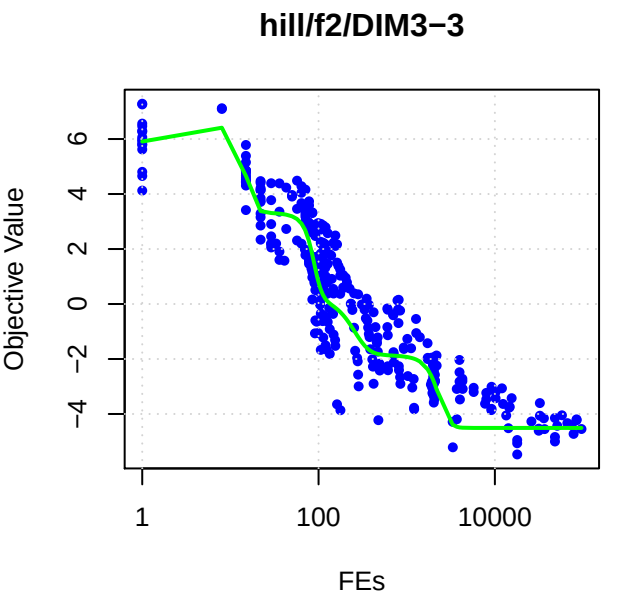
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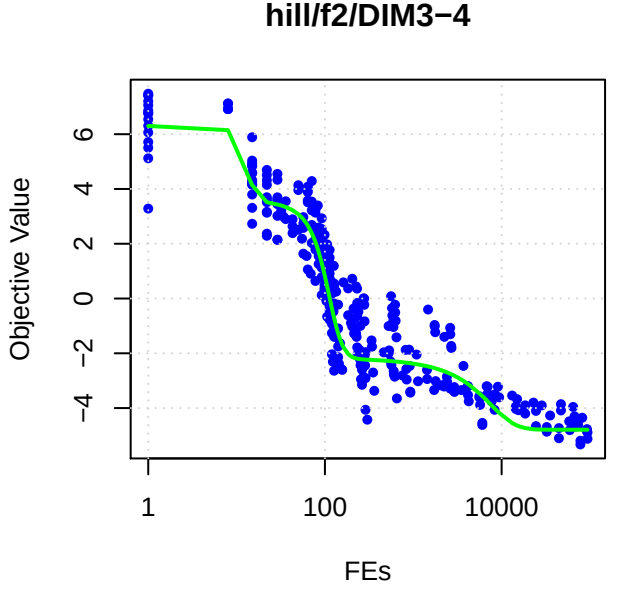
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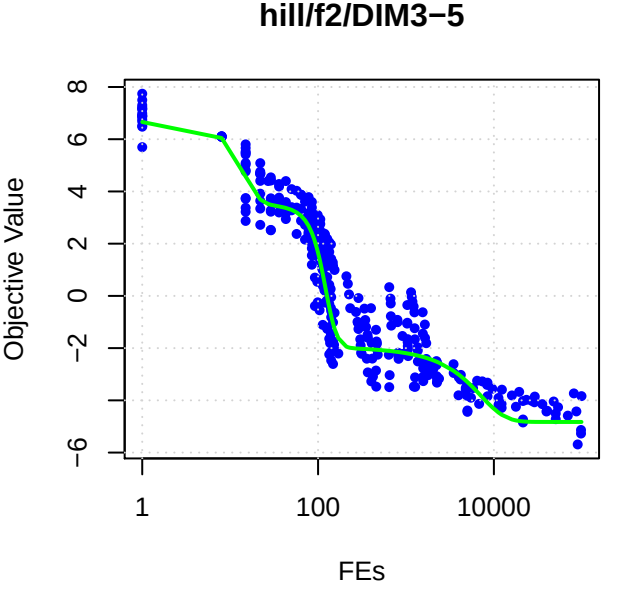
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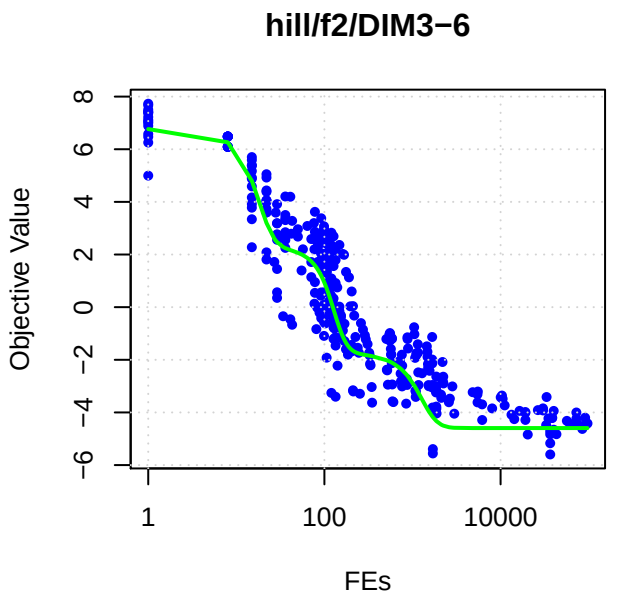
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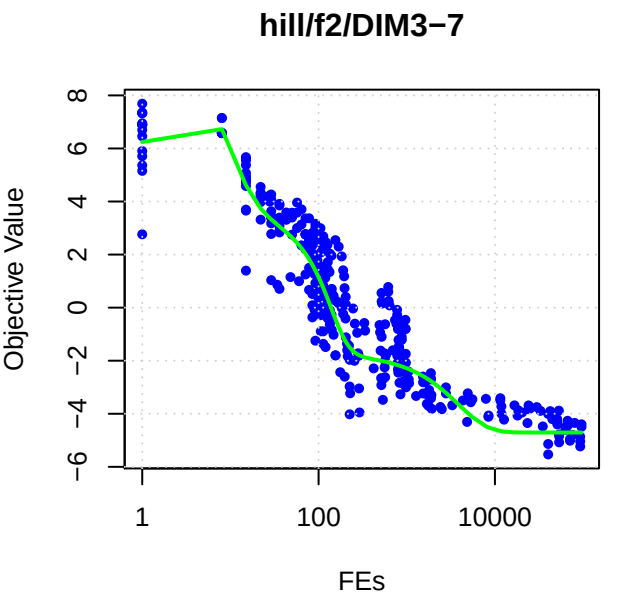
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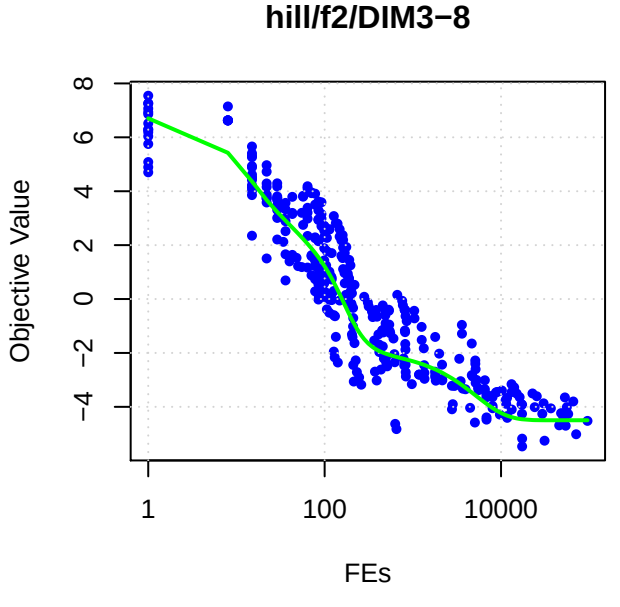
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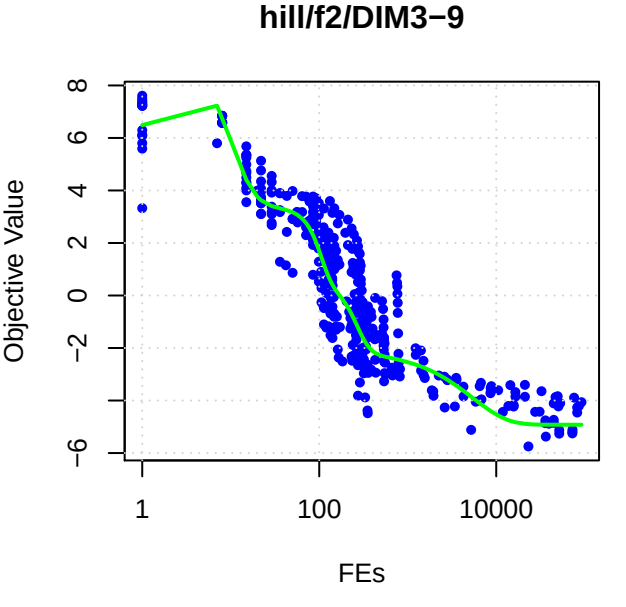
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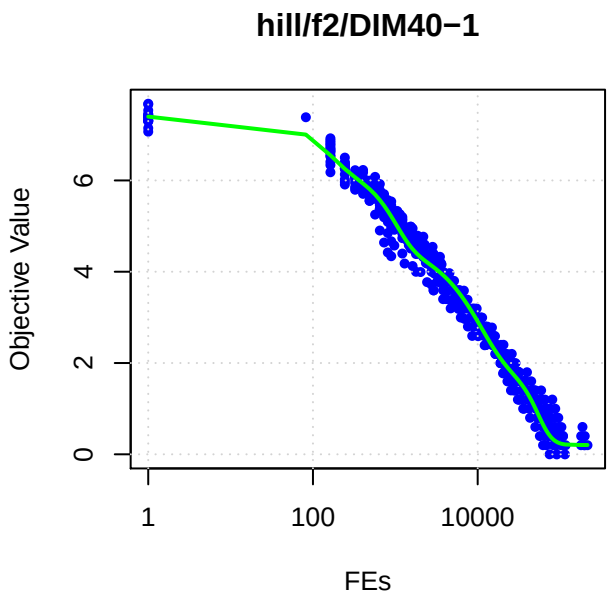
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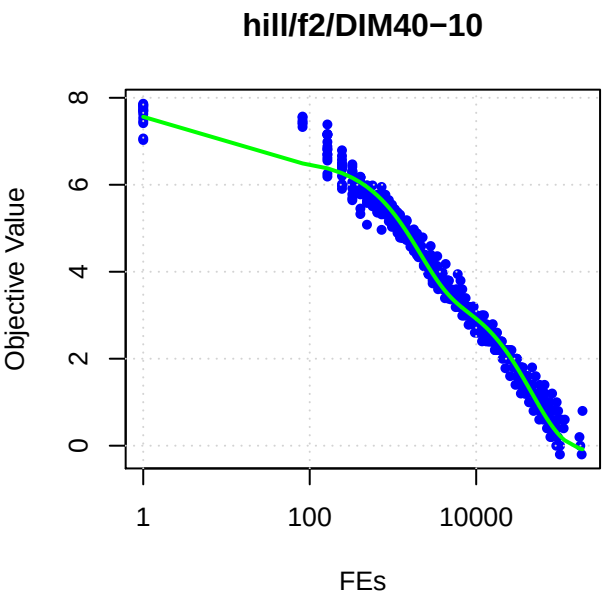
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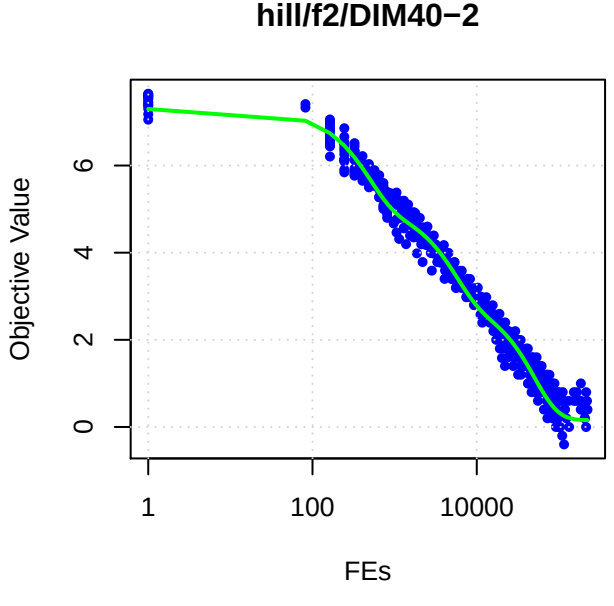
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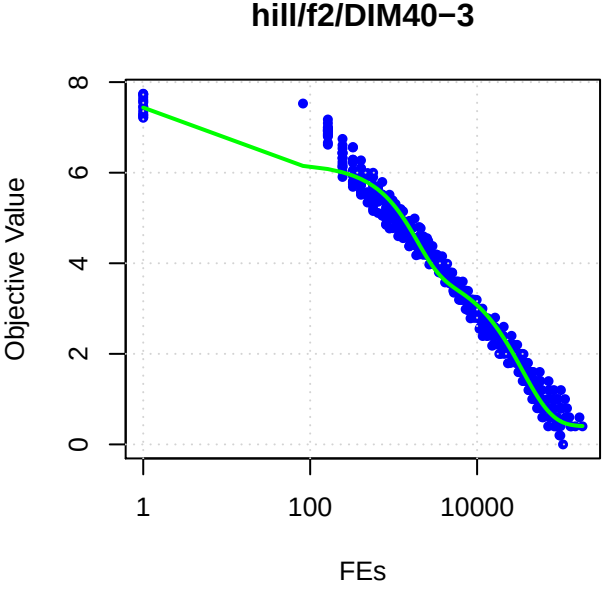
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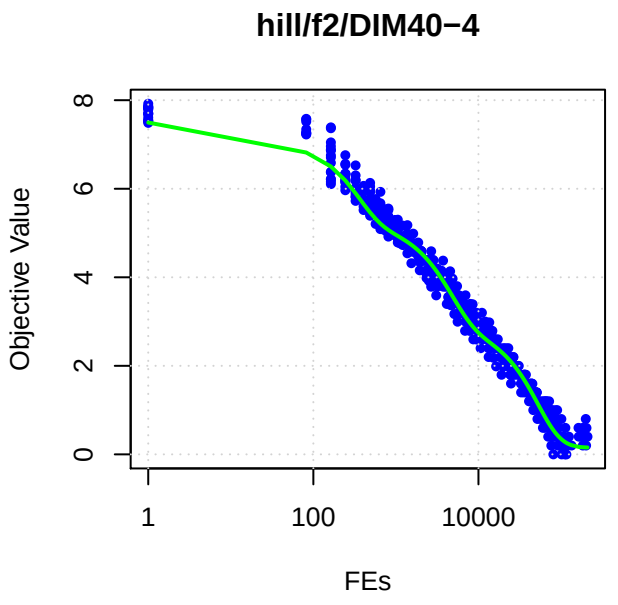
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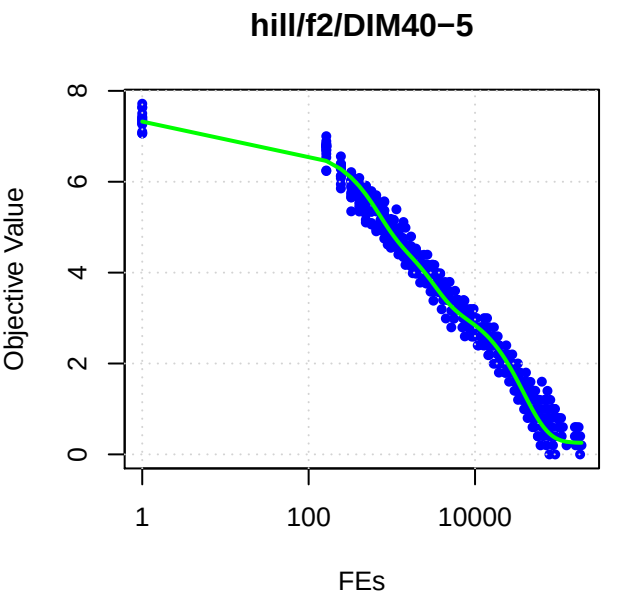
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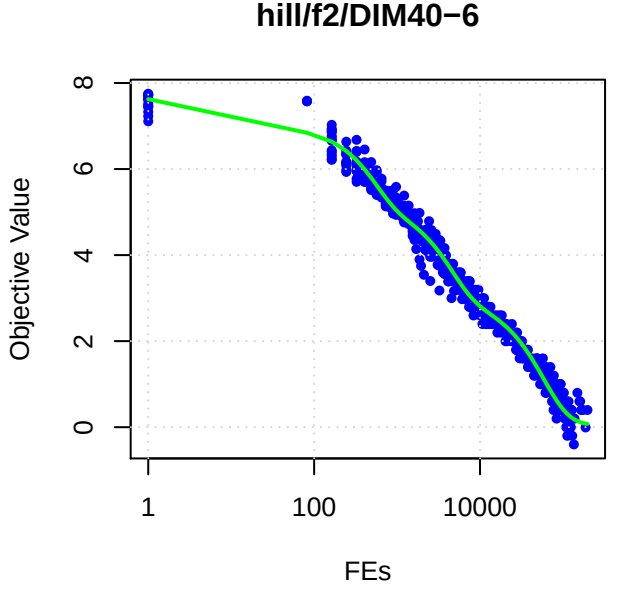
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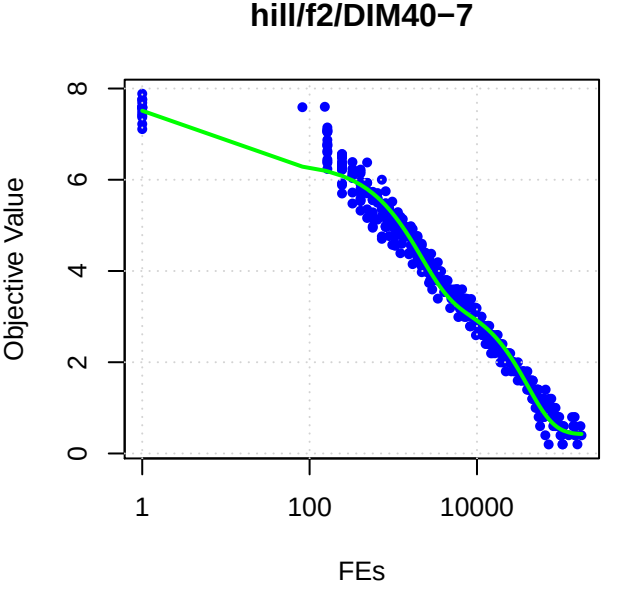
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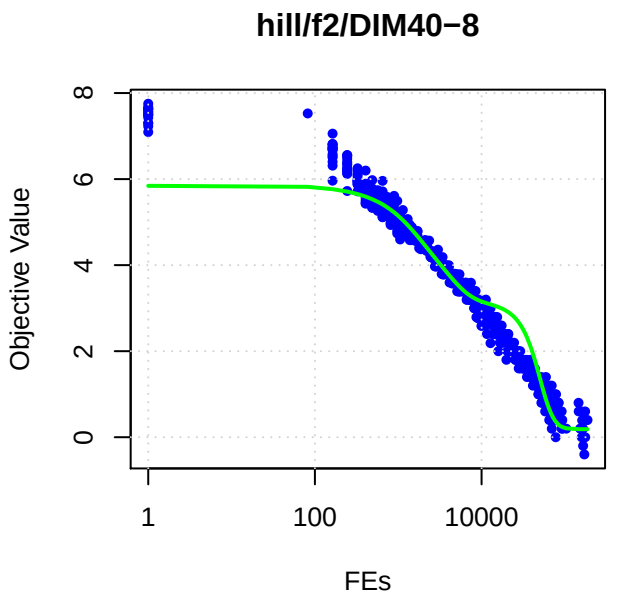
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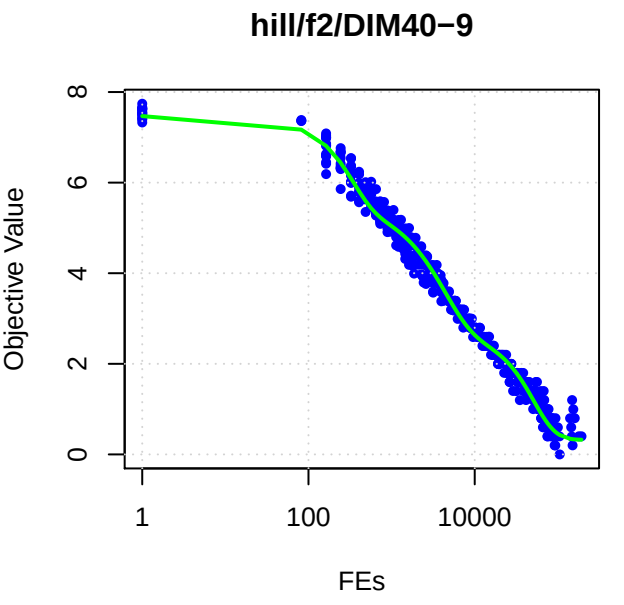
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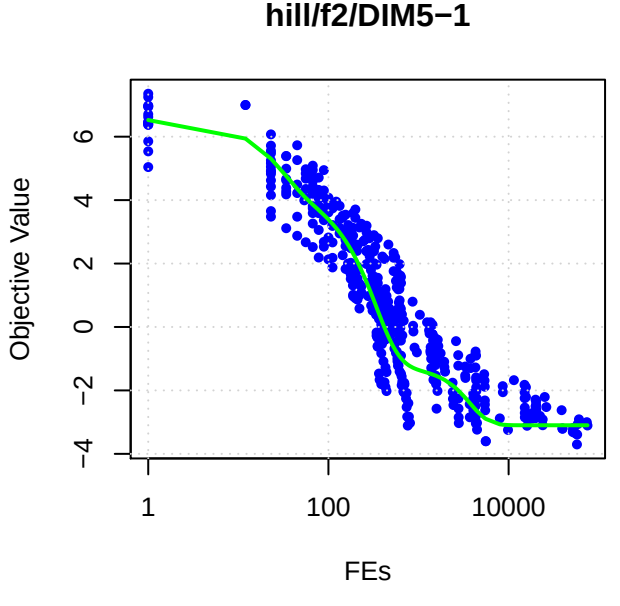
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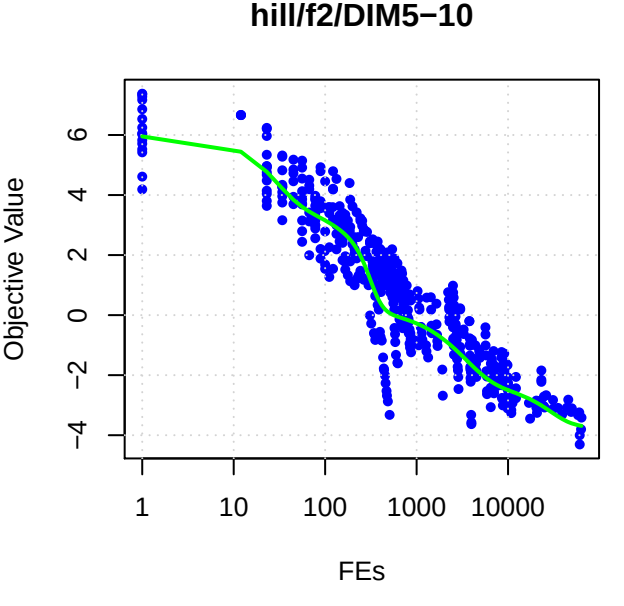
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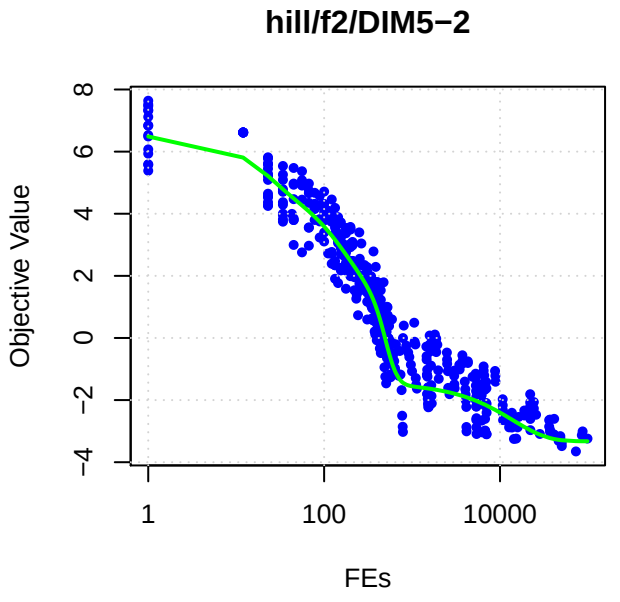
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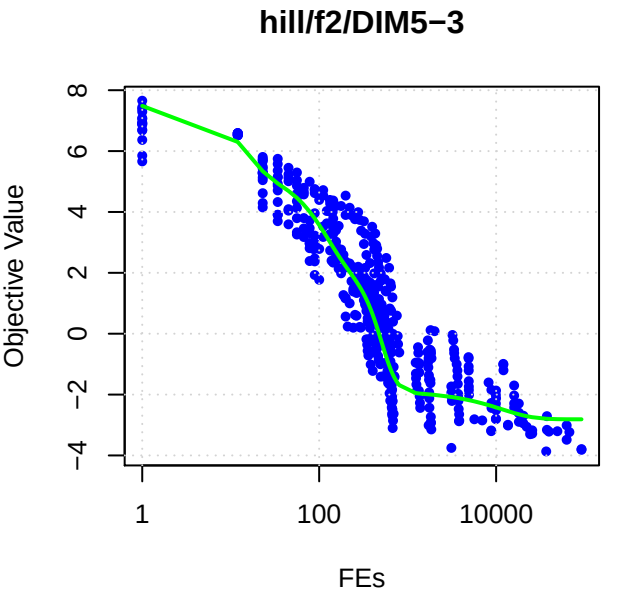
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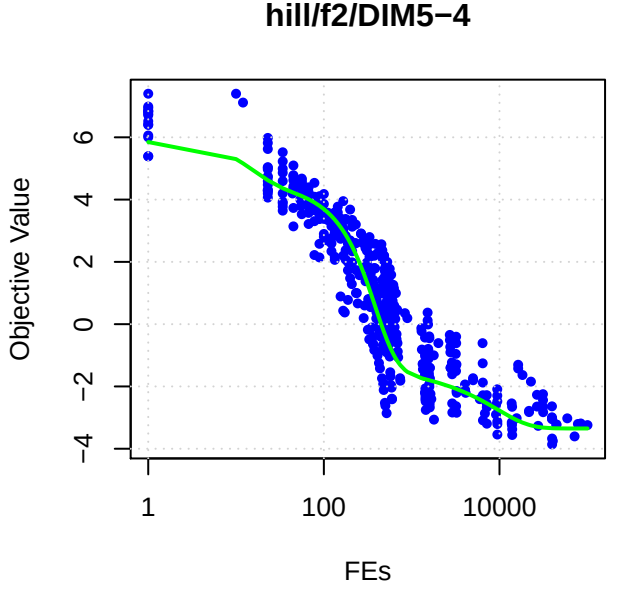
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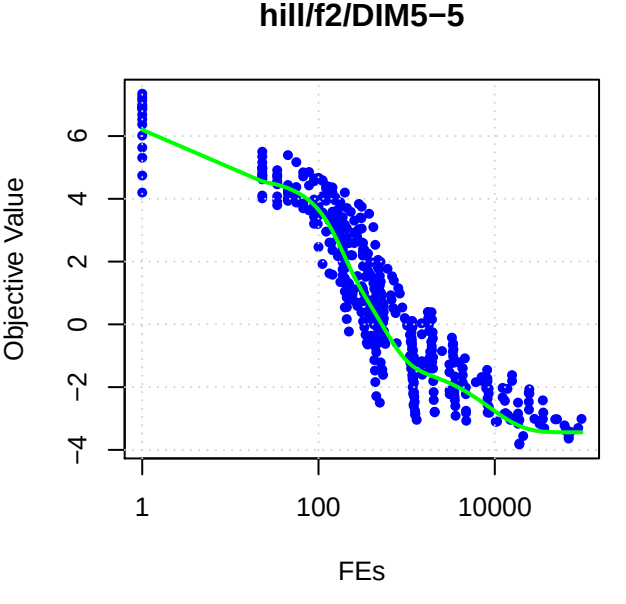
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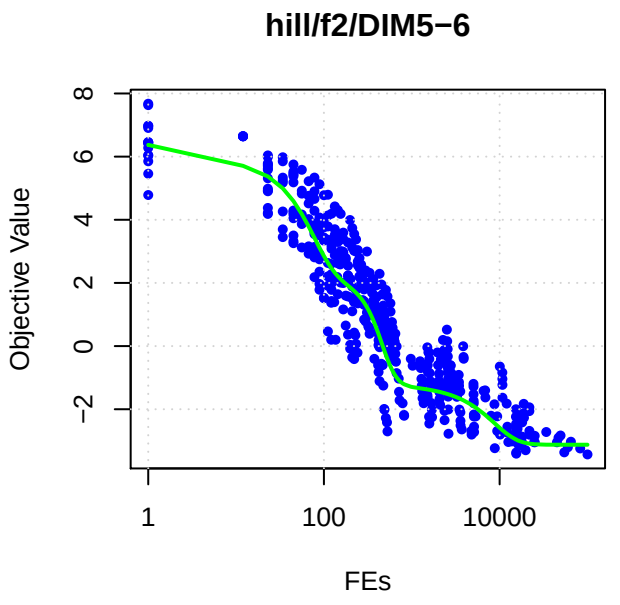
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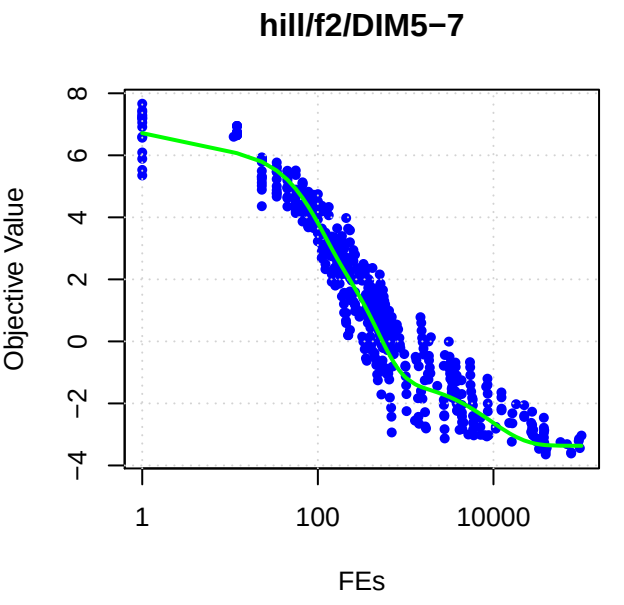
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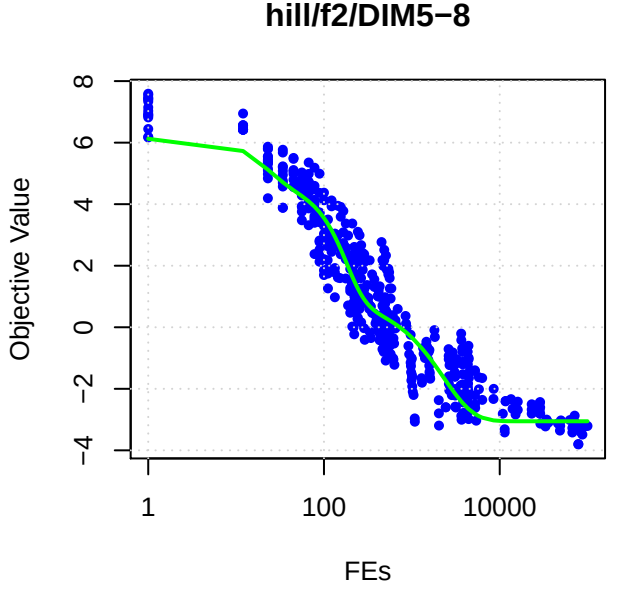
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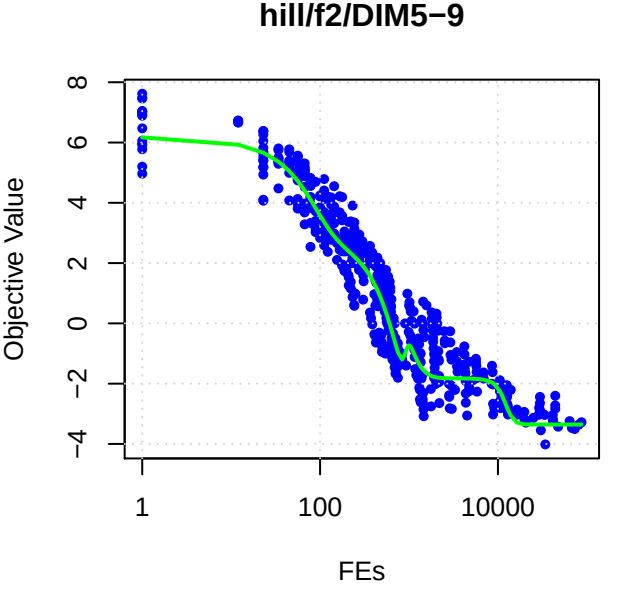
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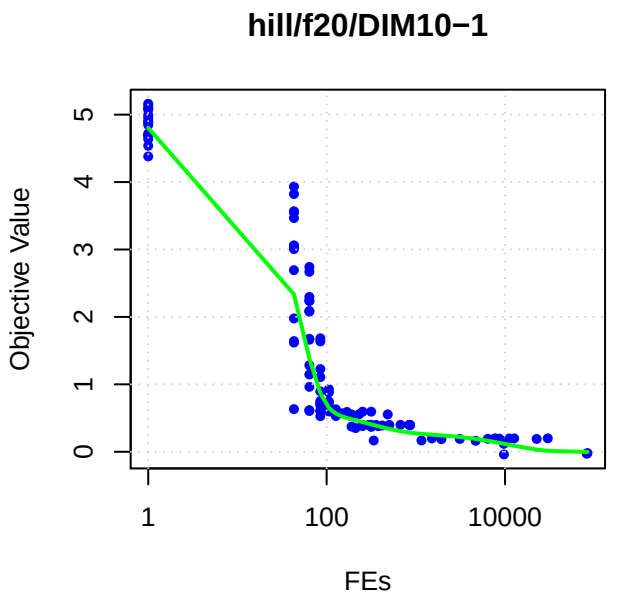
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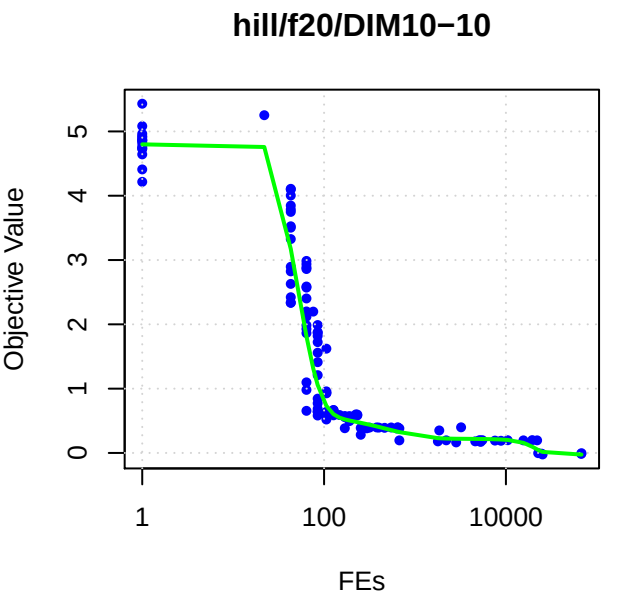
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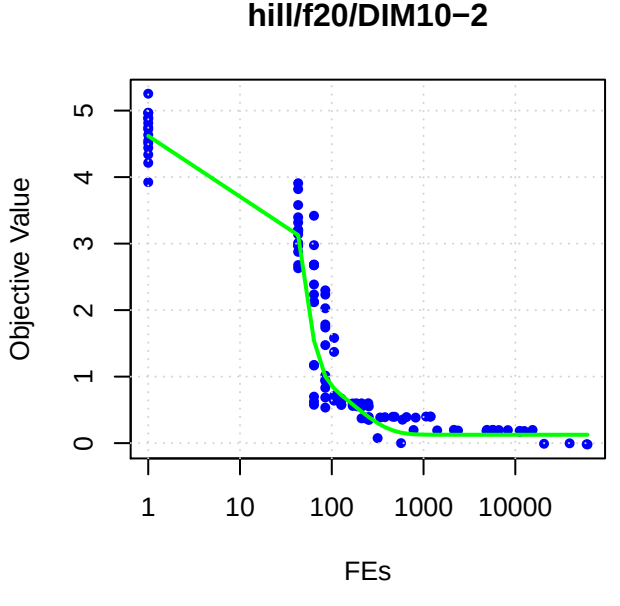
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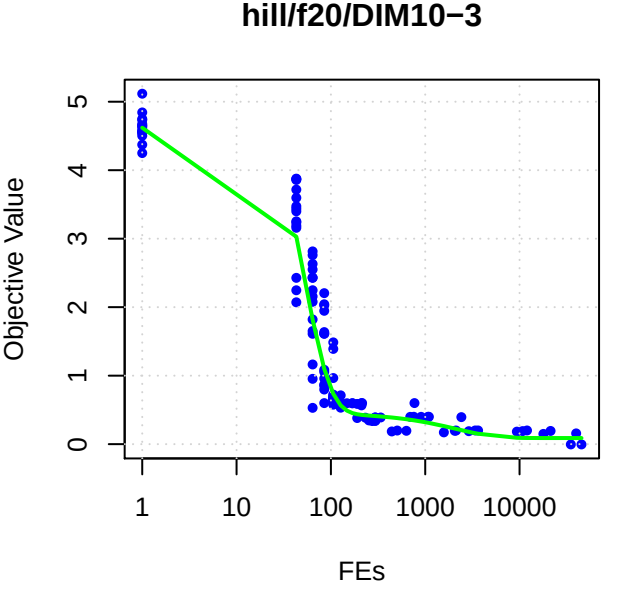
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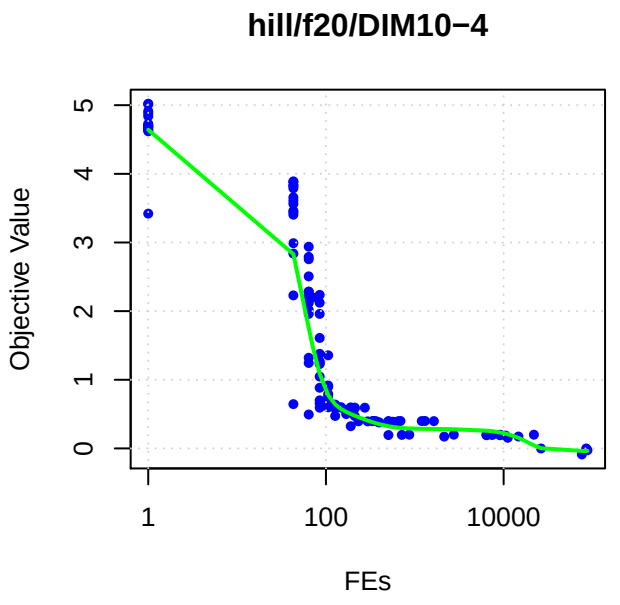
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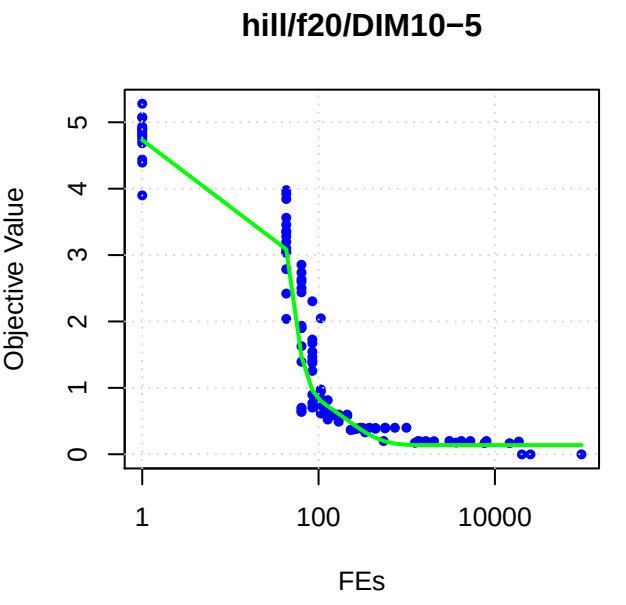
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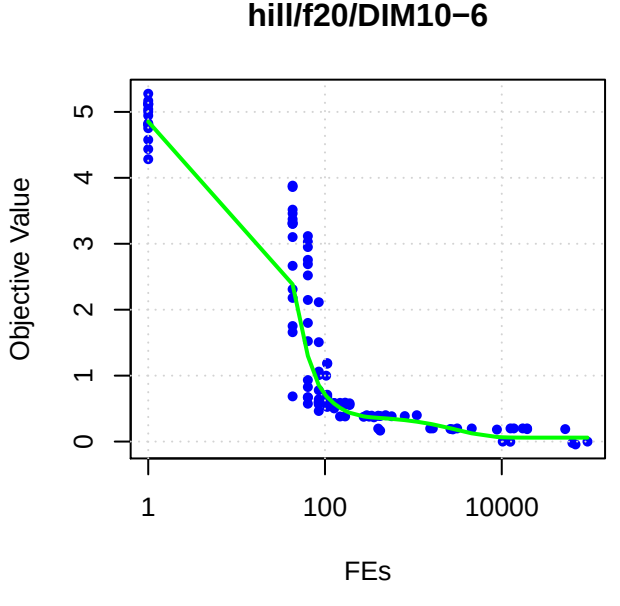
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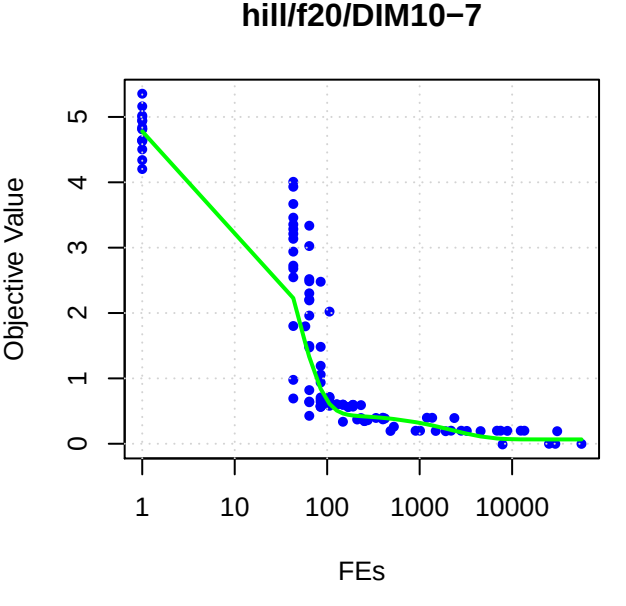
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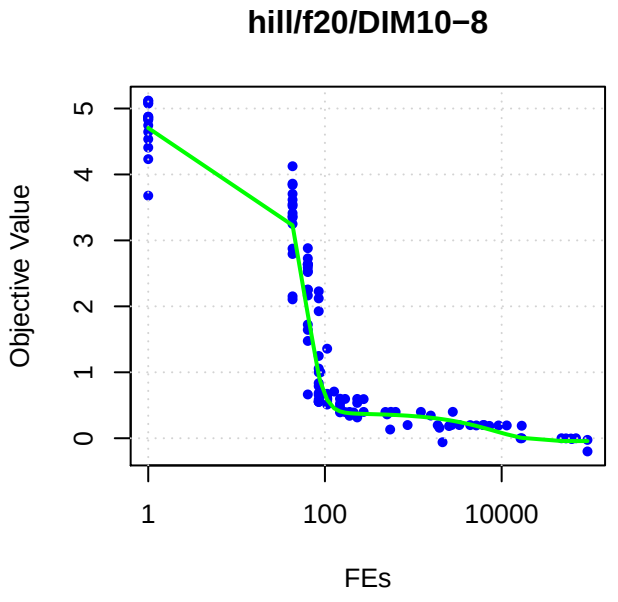
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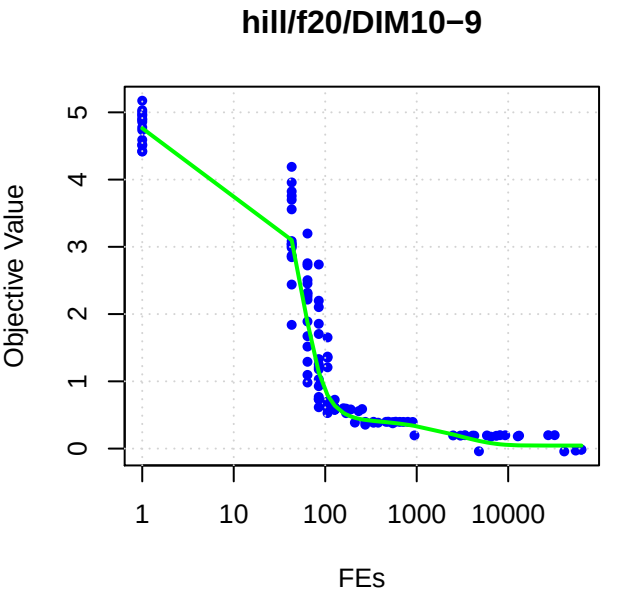
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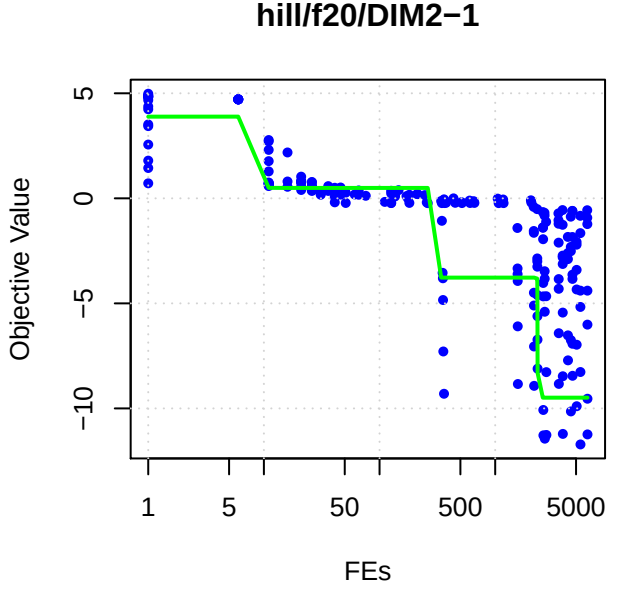
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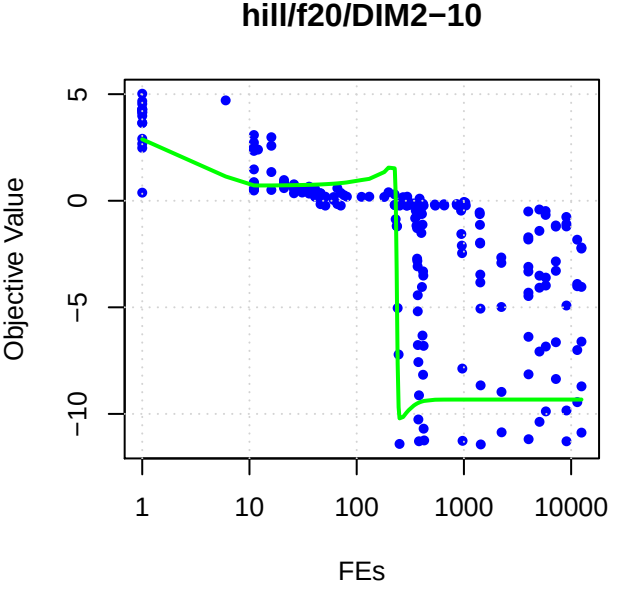
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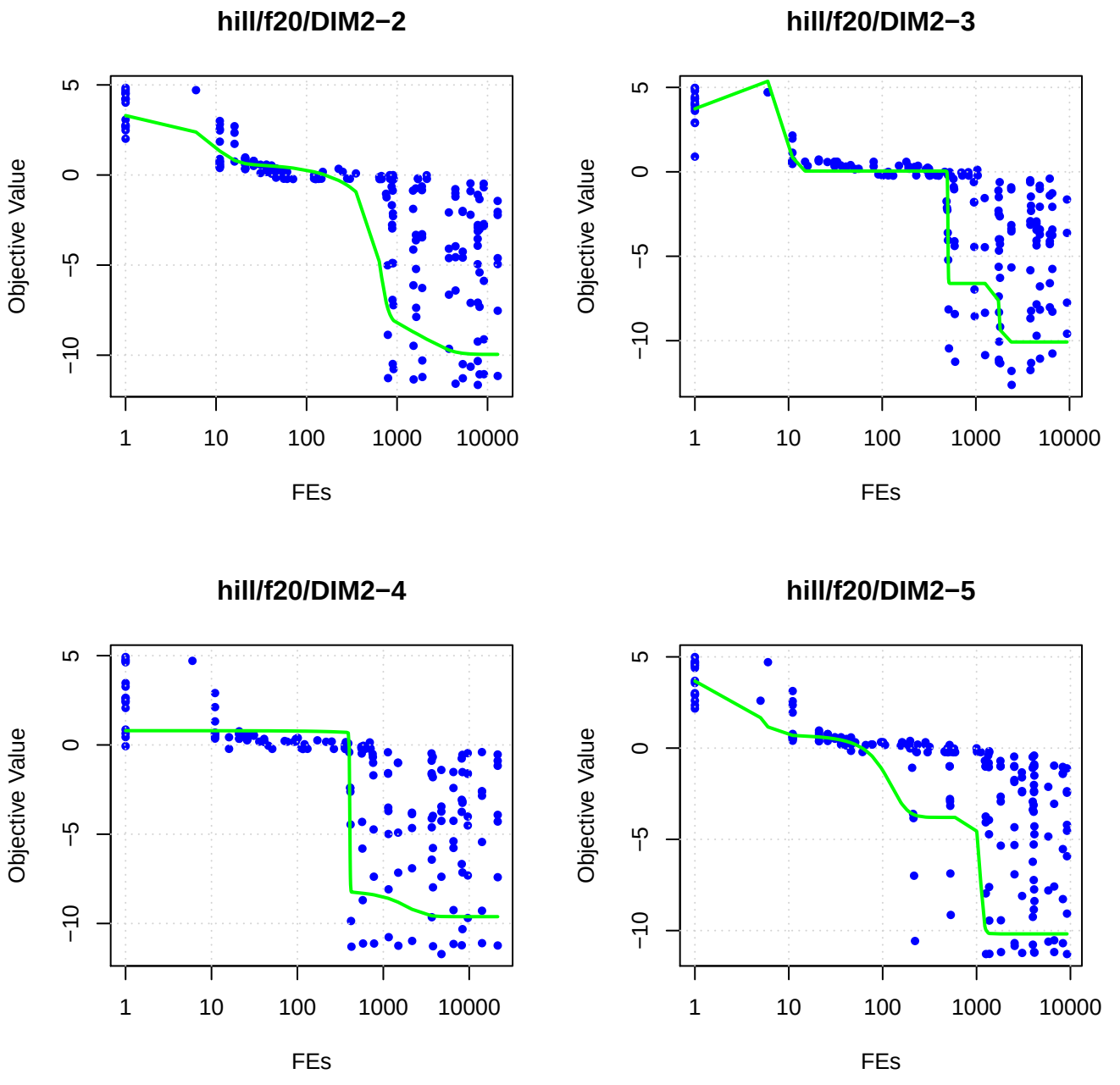
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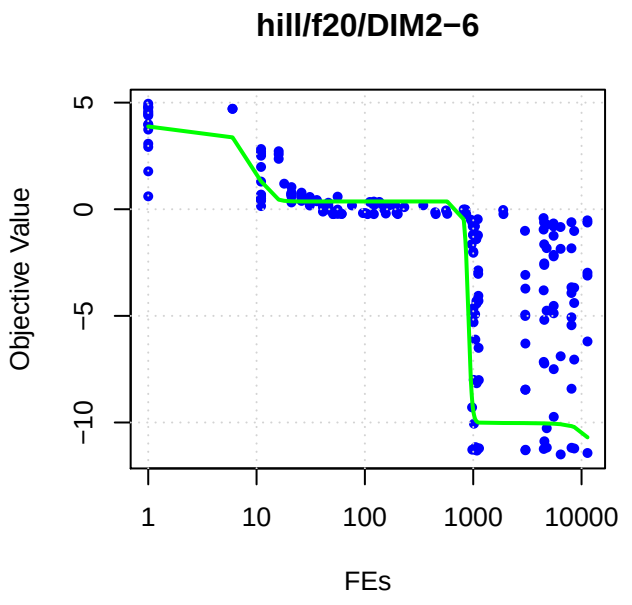
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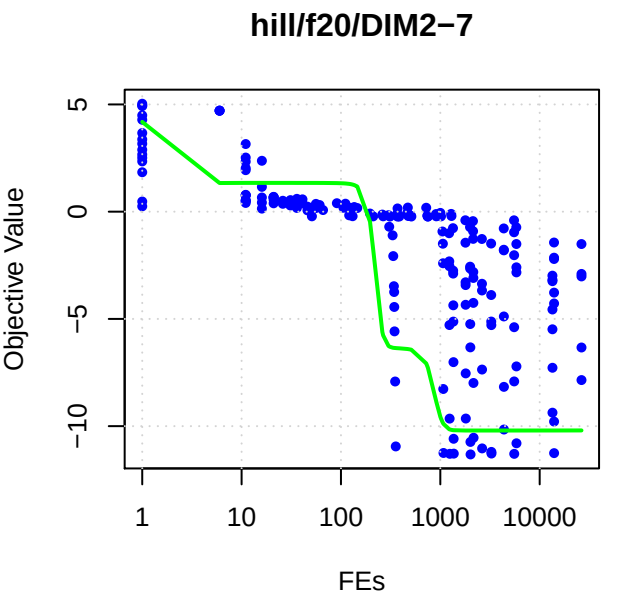
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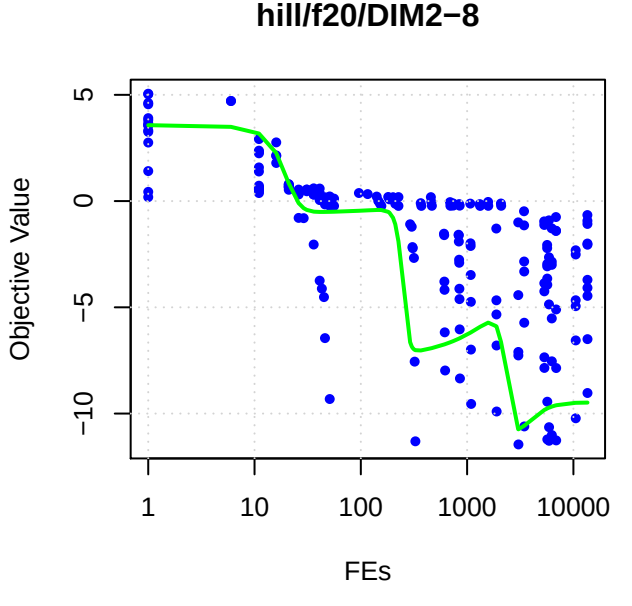
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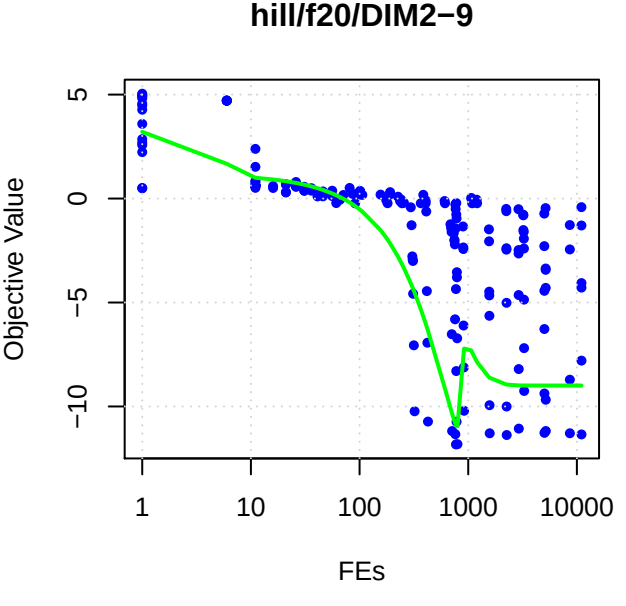
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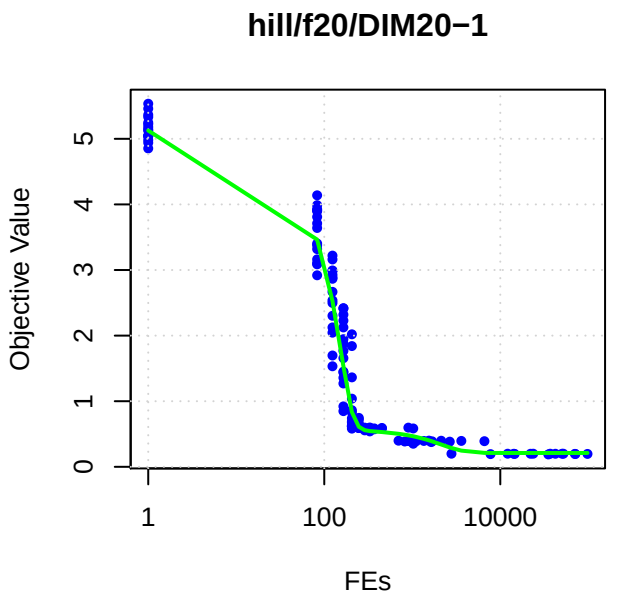
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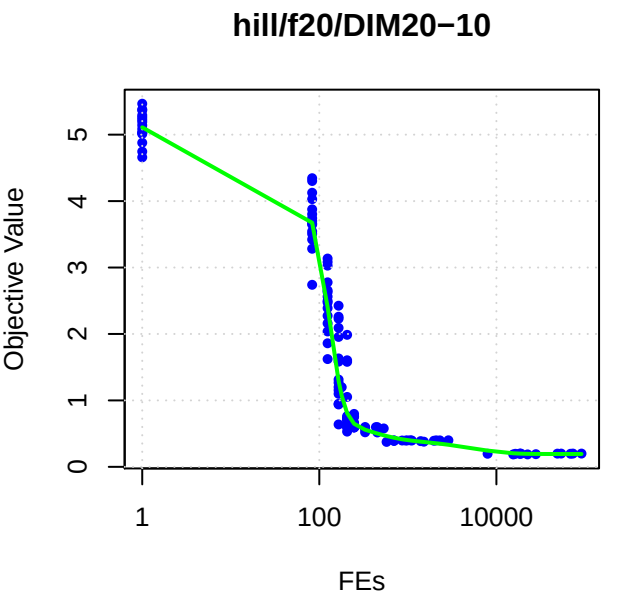
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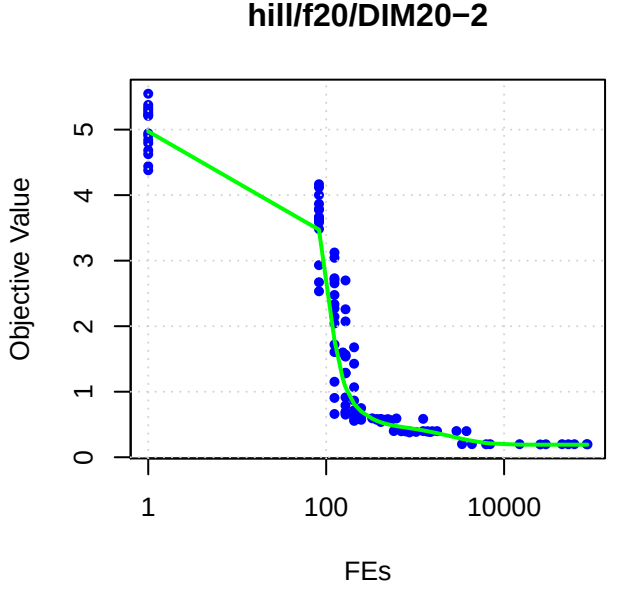
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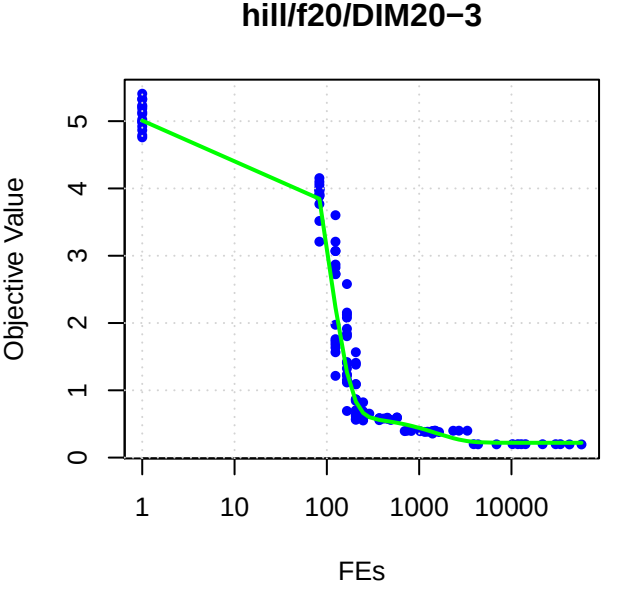
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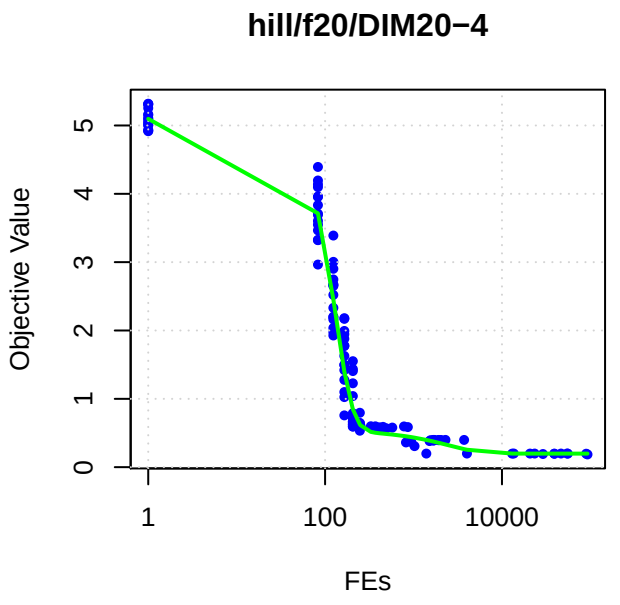
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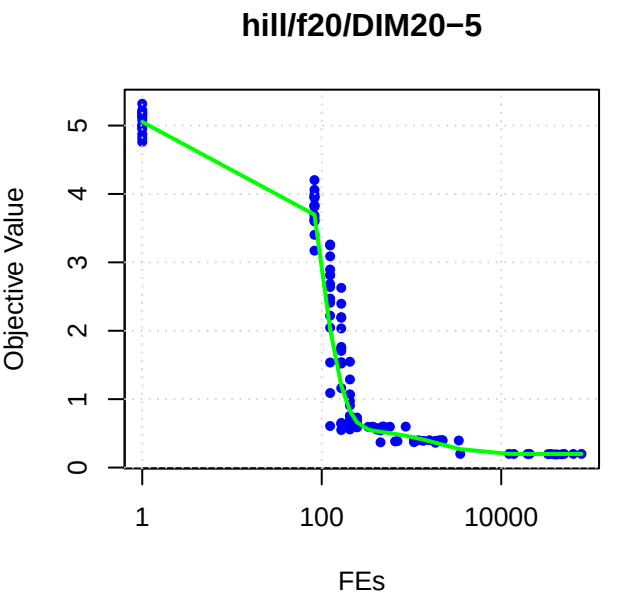
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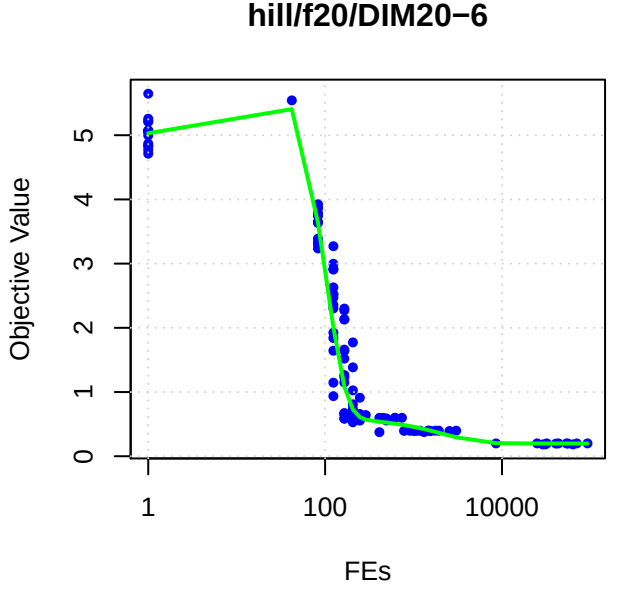
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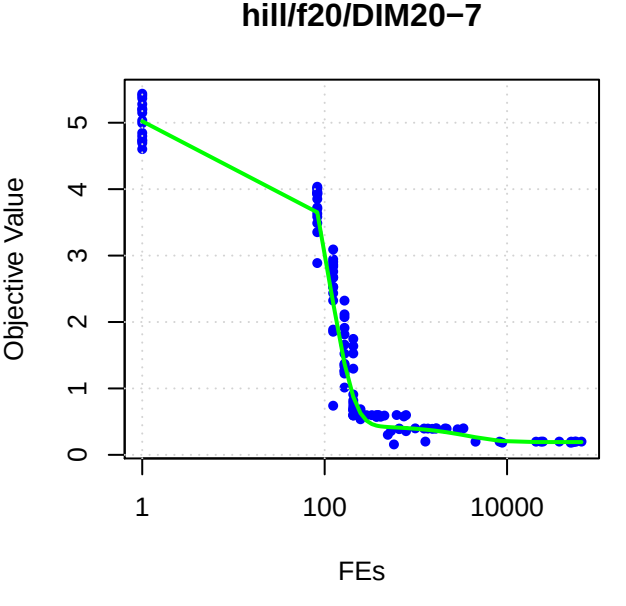
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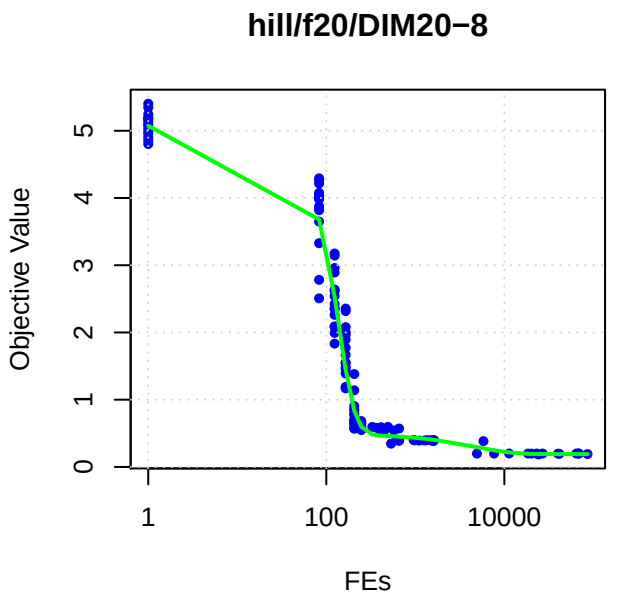
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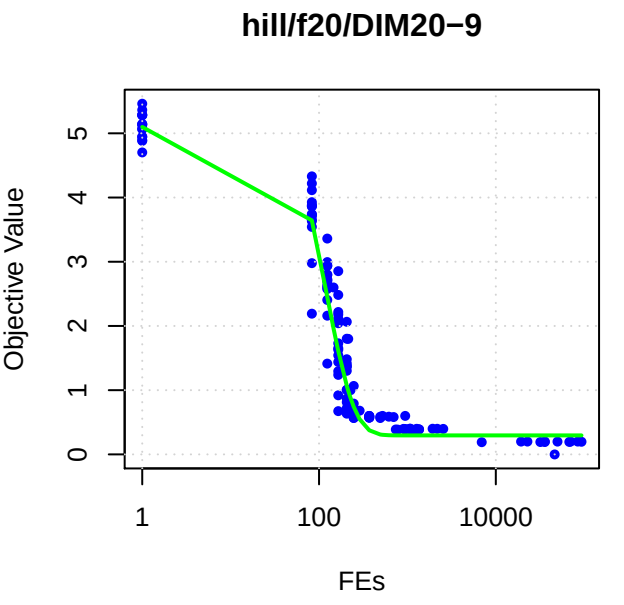
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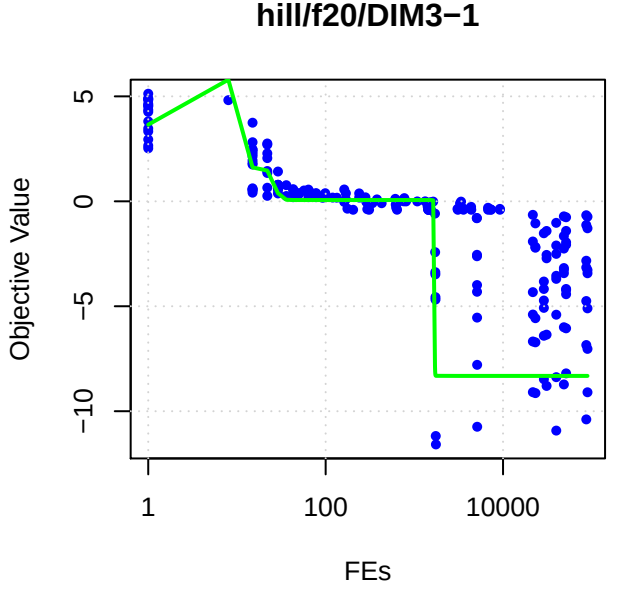
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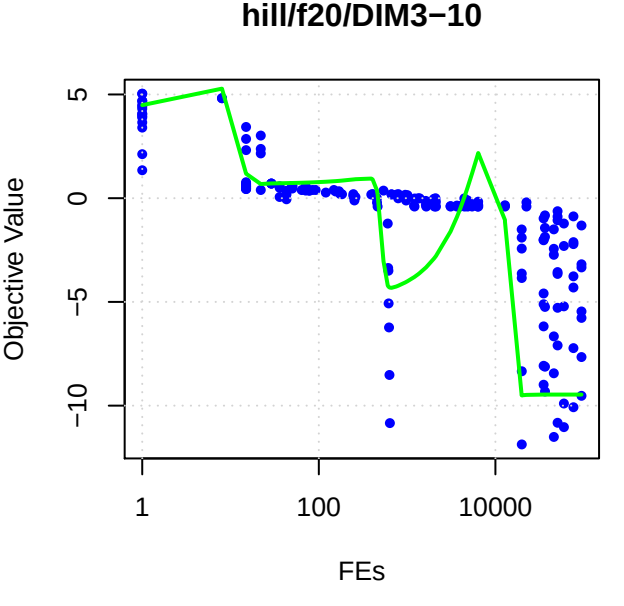
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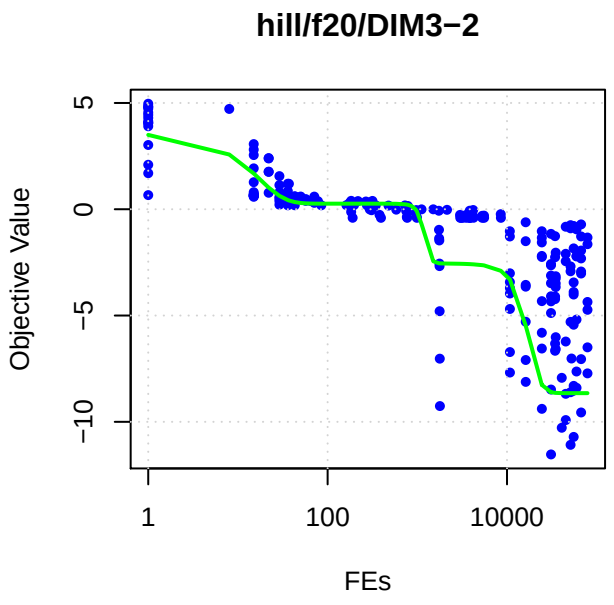
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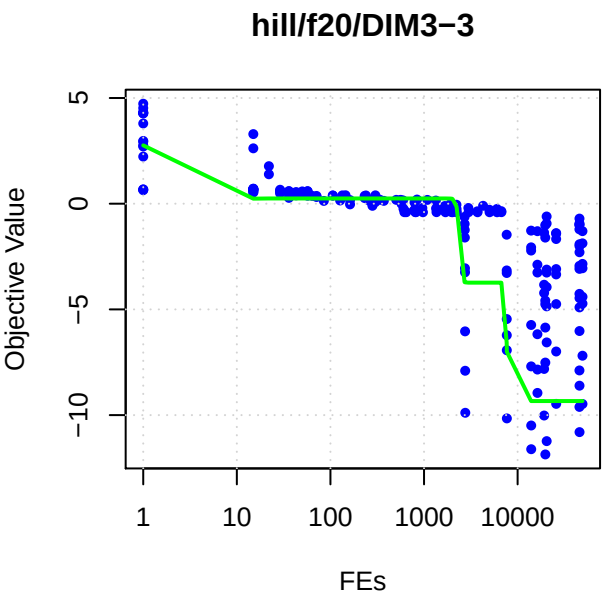
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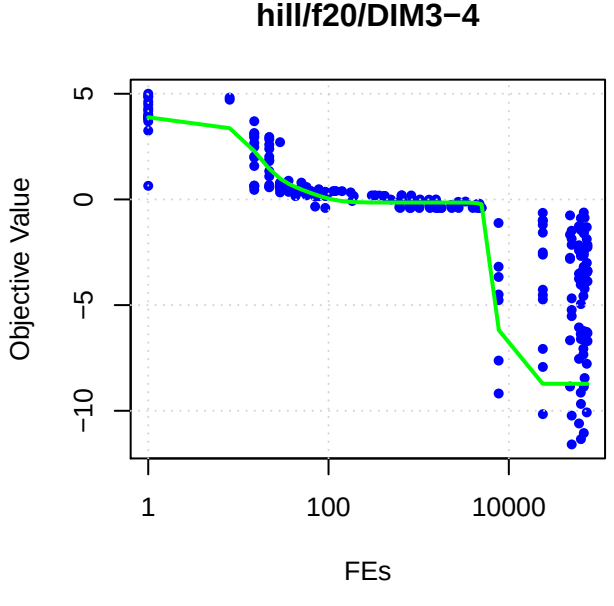
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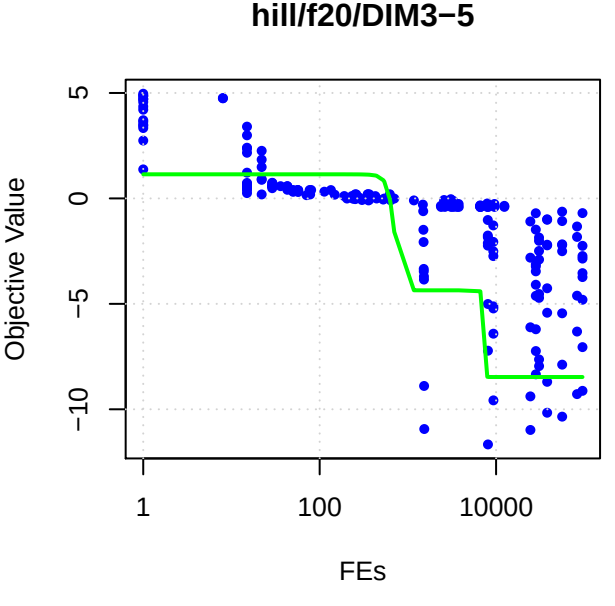
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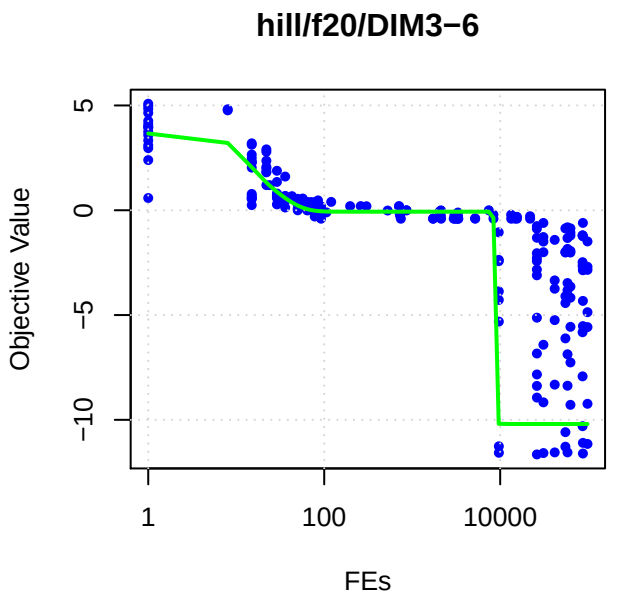
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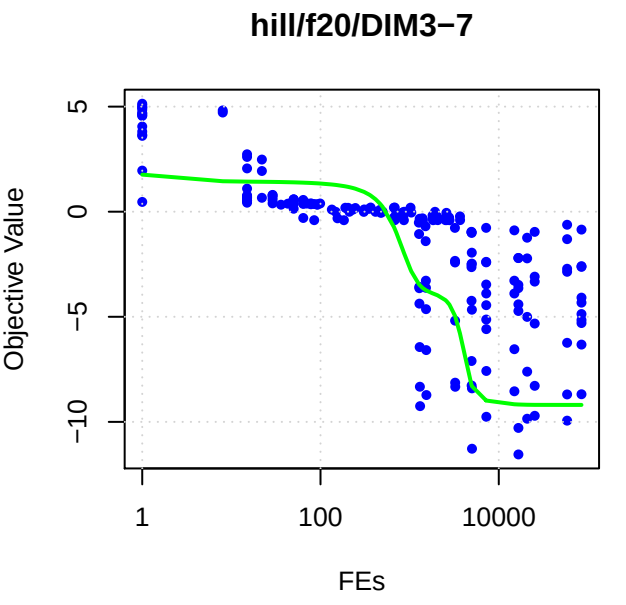
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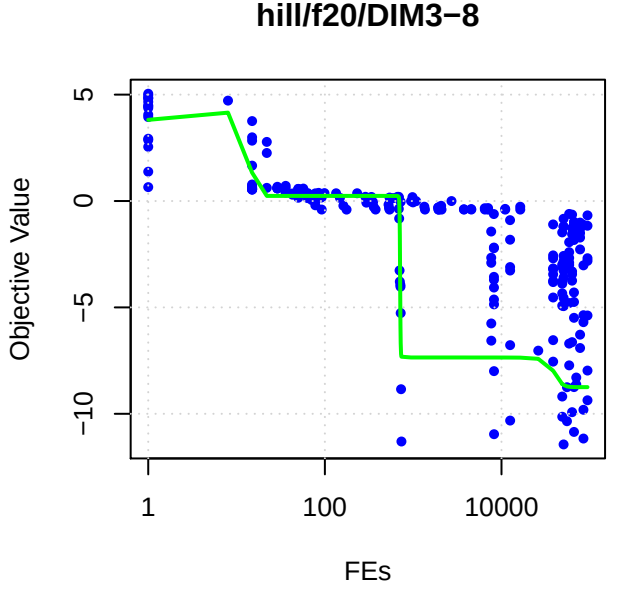
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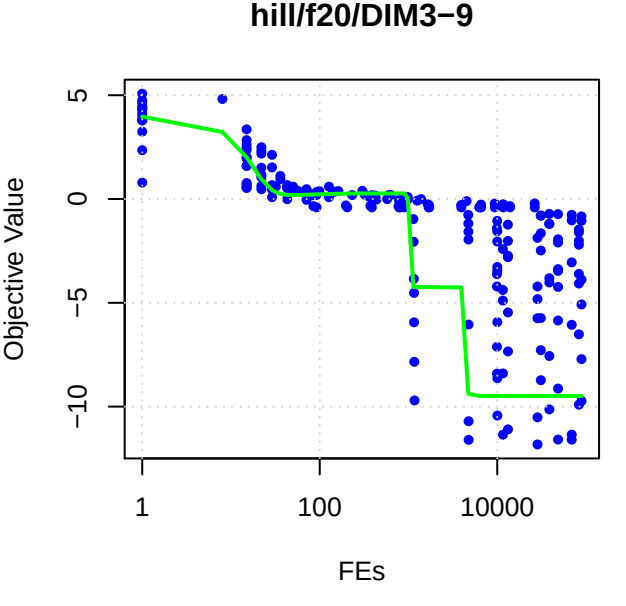
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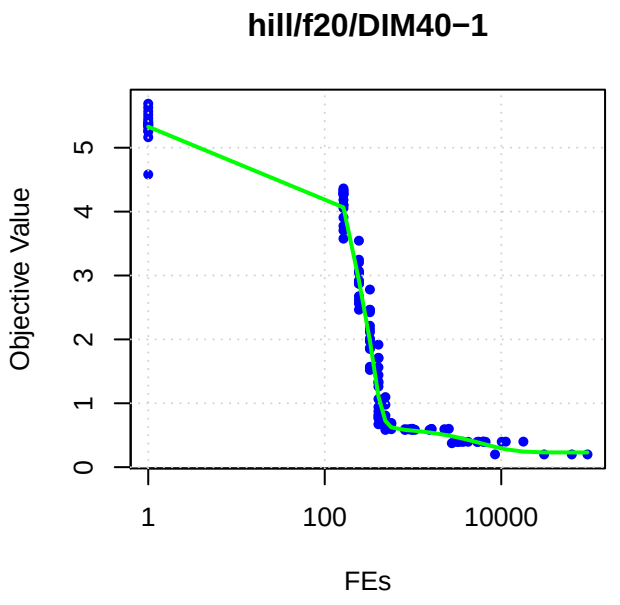
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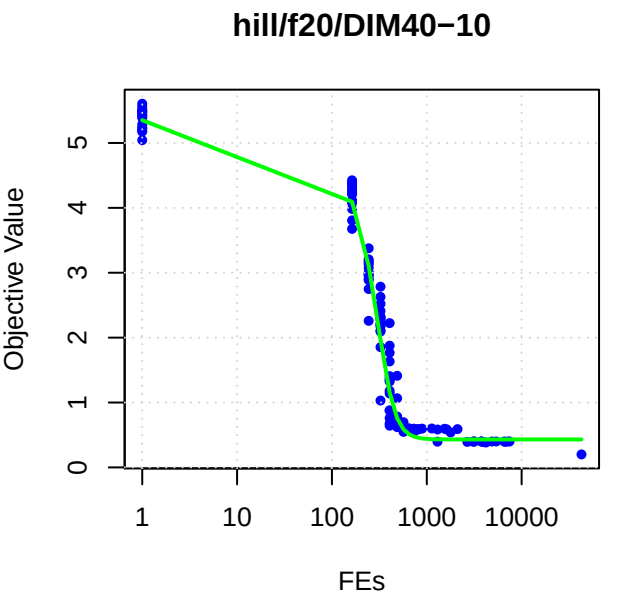
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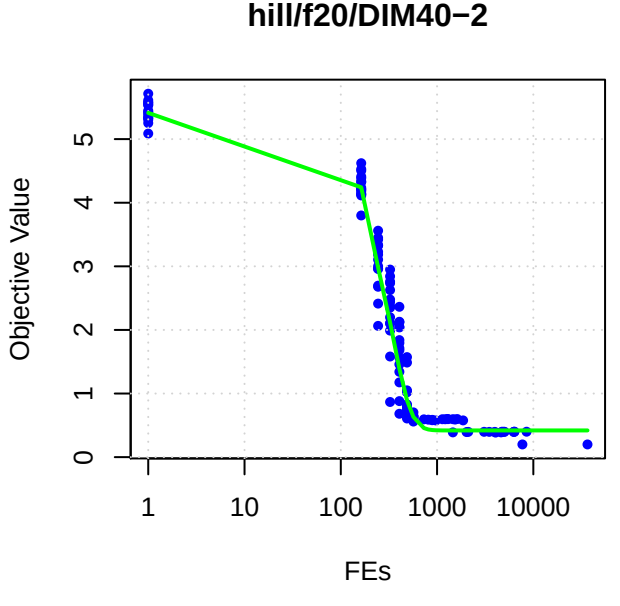
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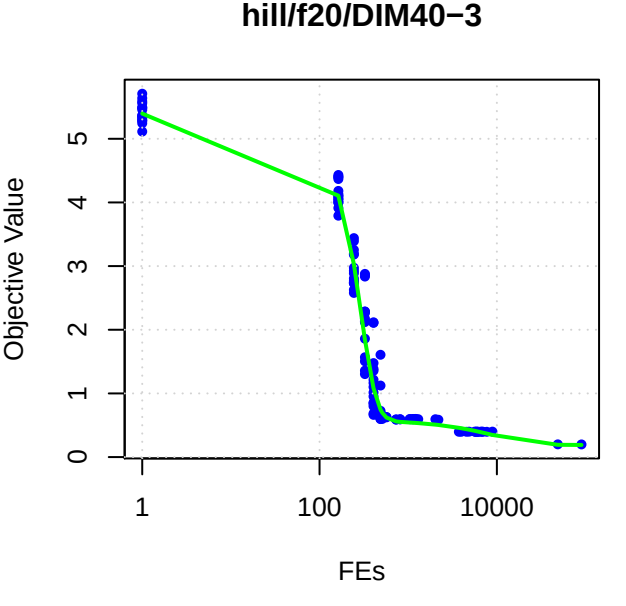
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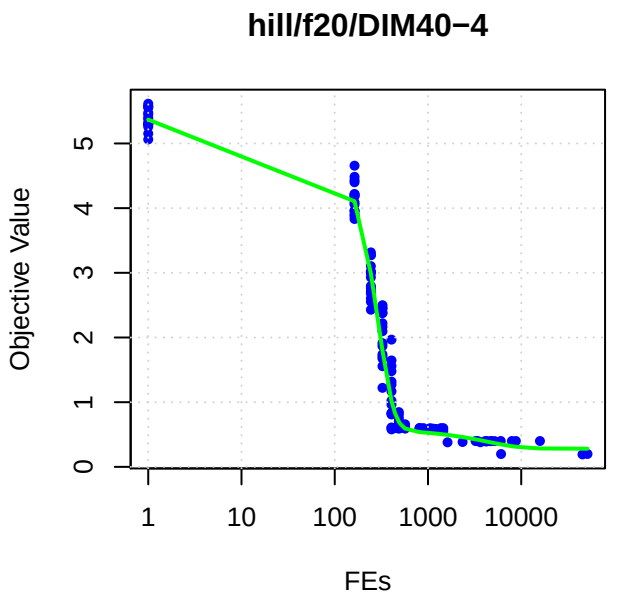
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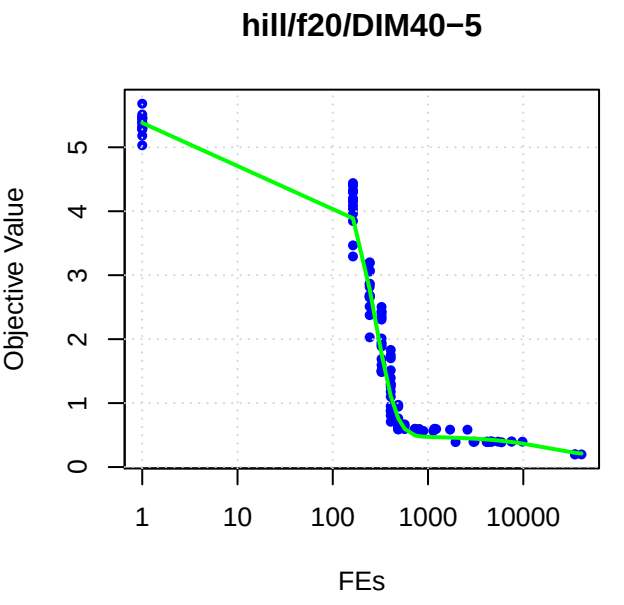
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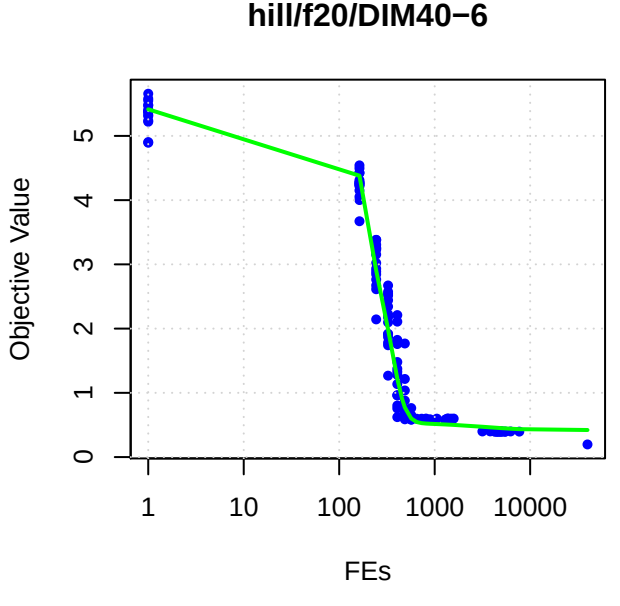
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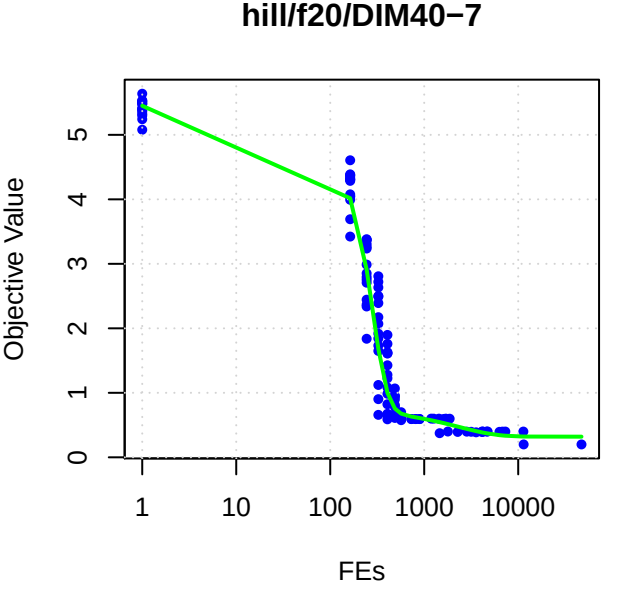
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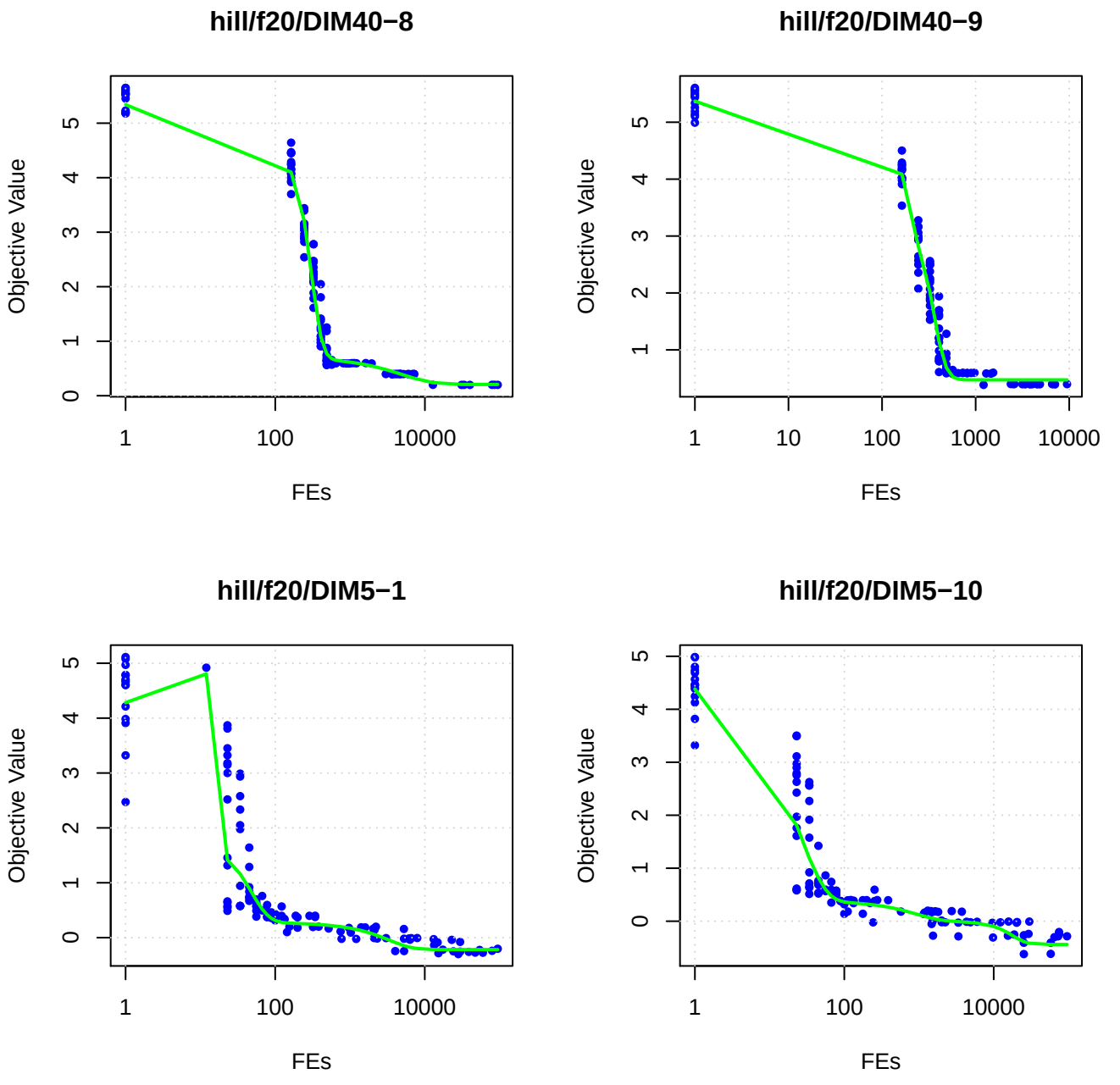
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Objective Value
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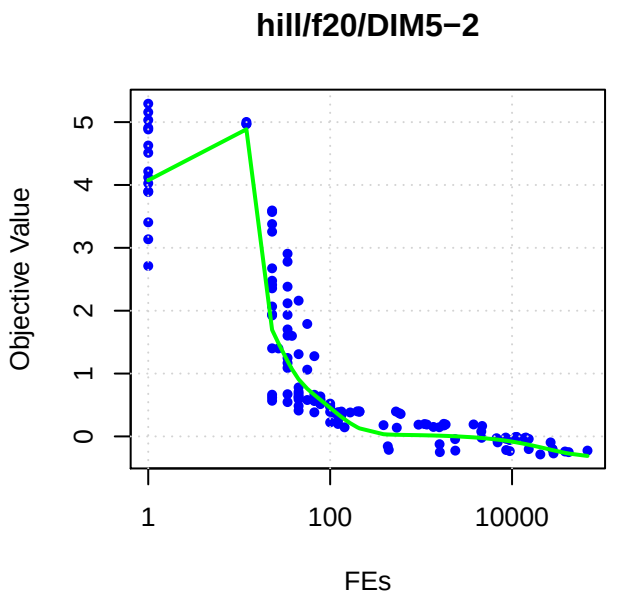
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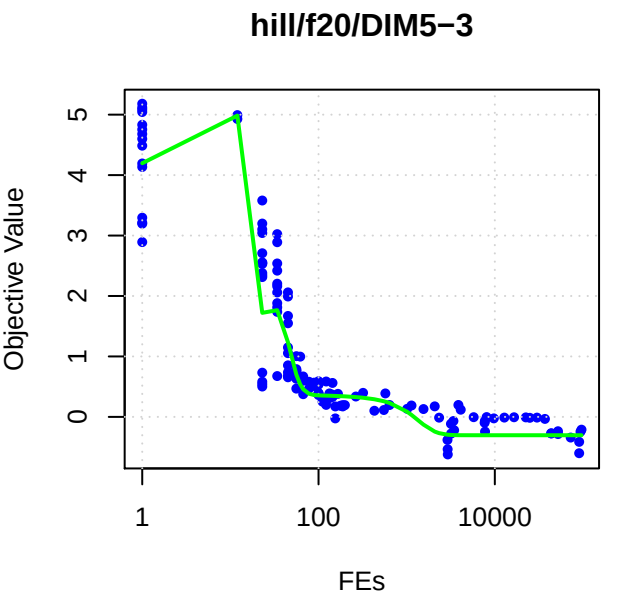
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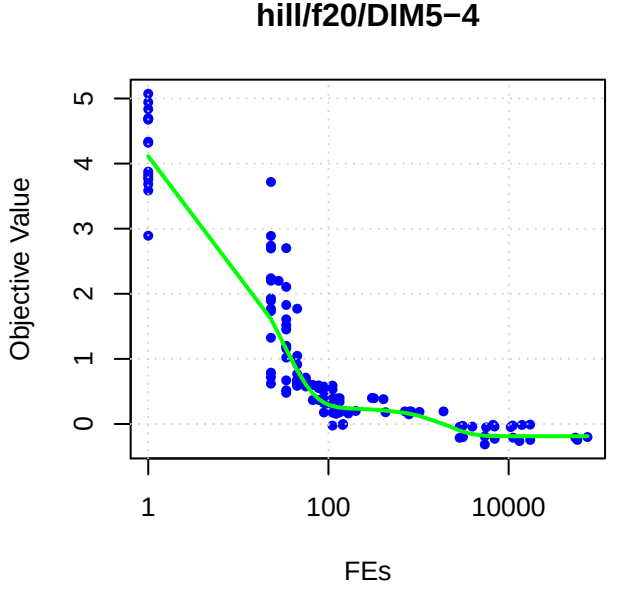
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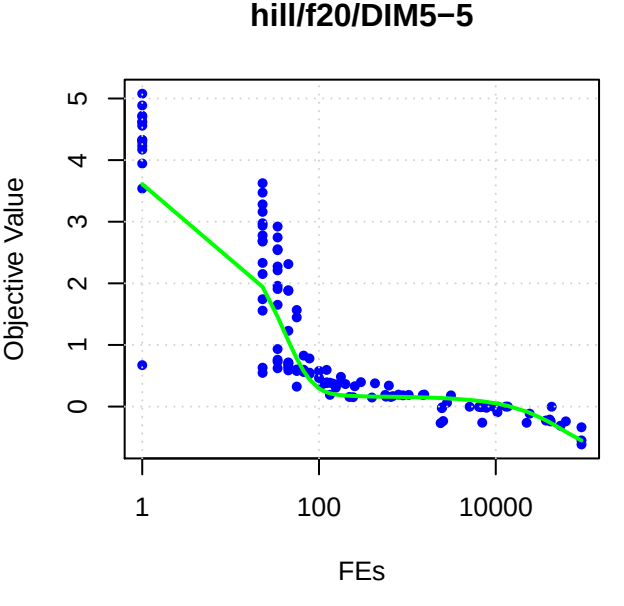
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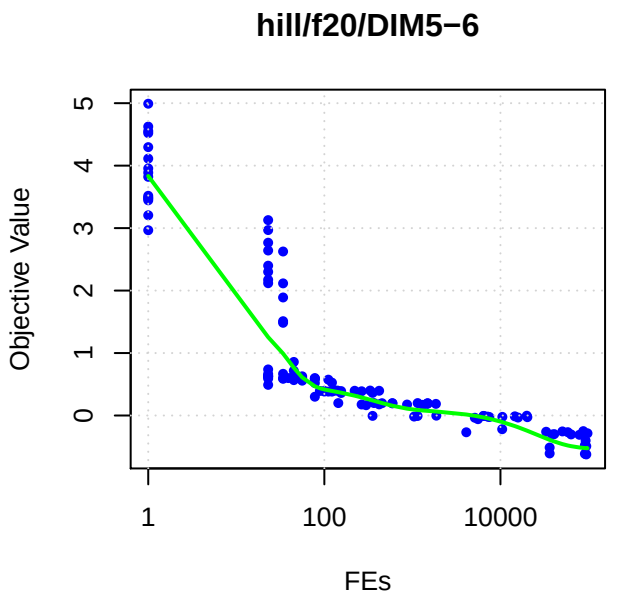
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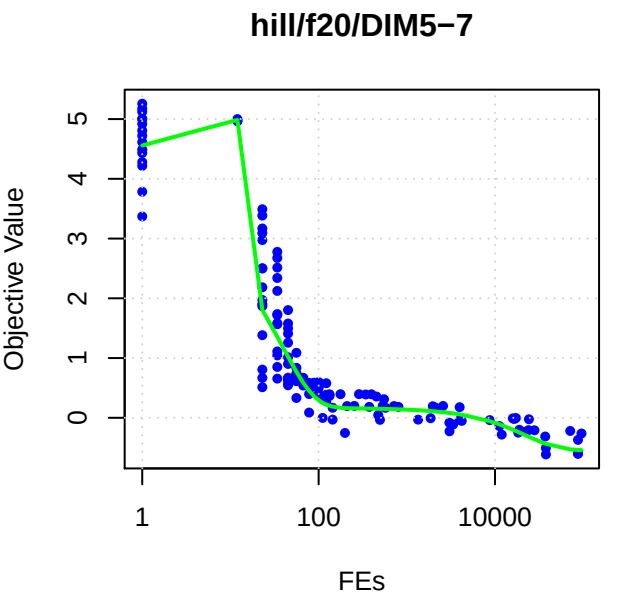
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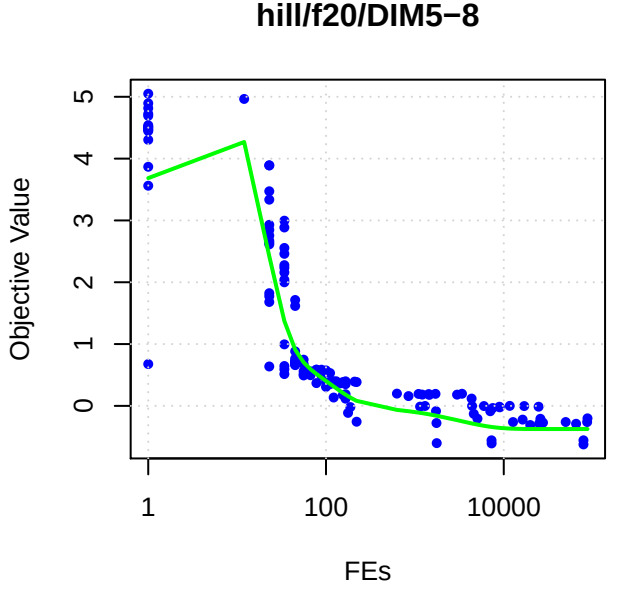
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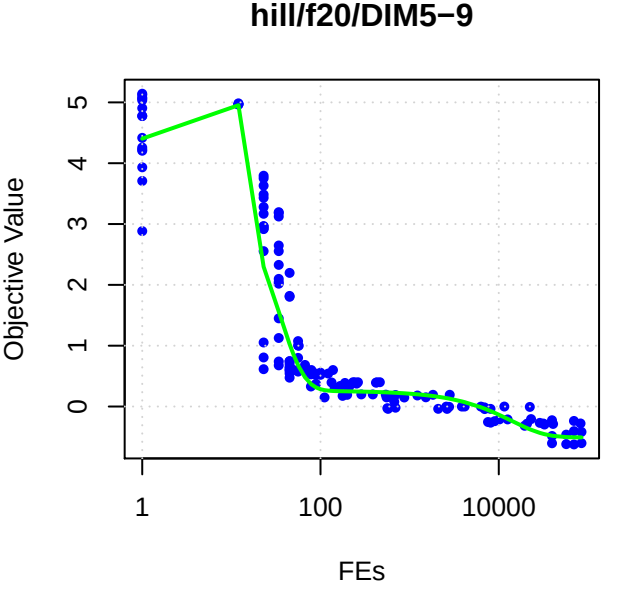
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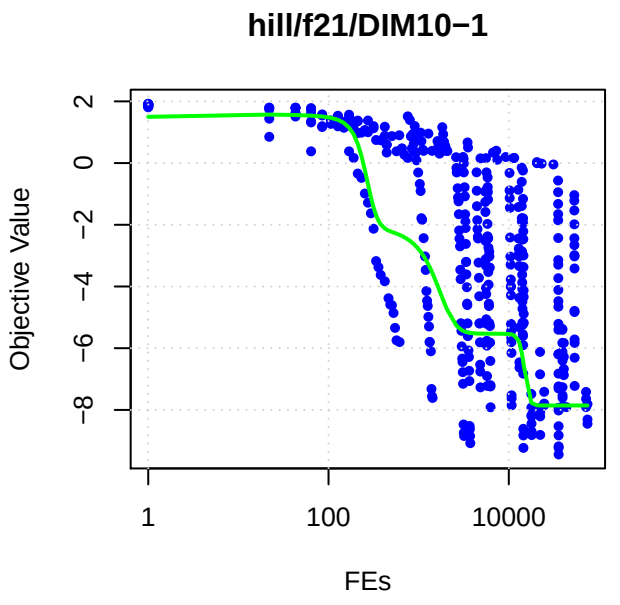
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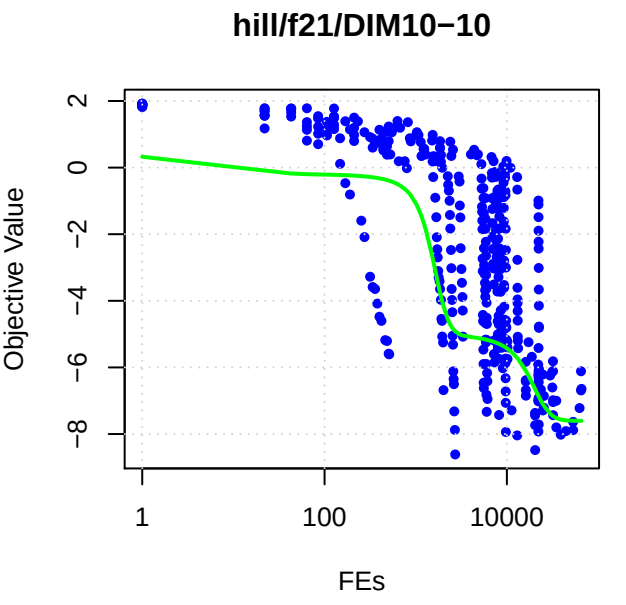
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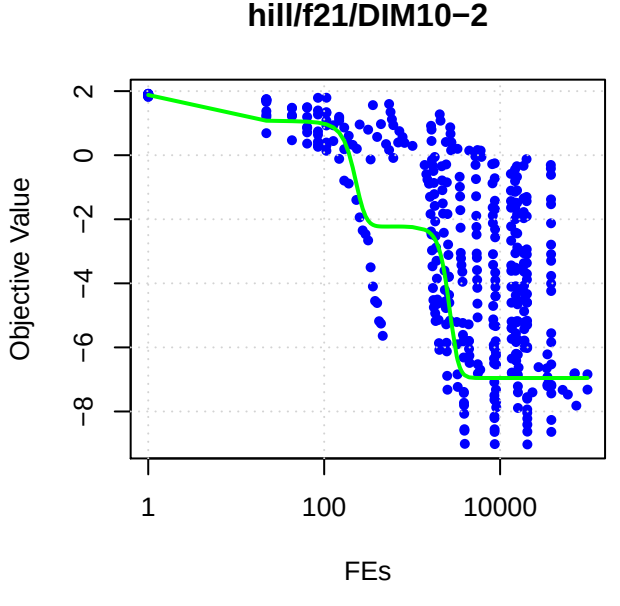
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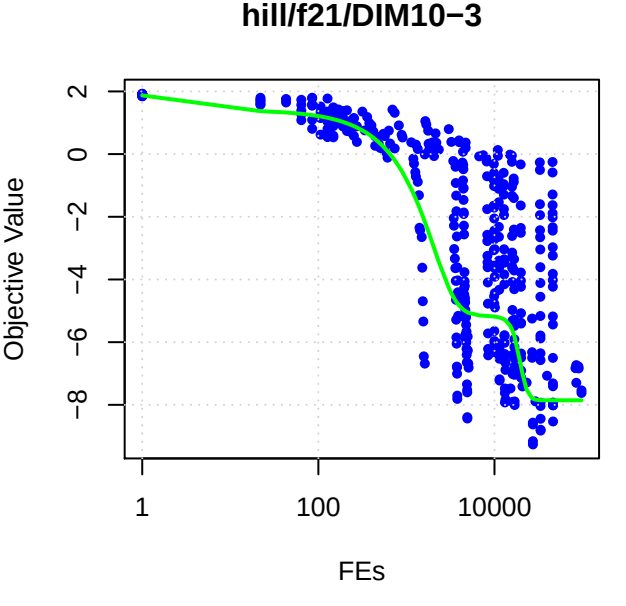
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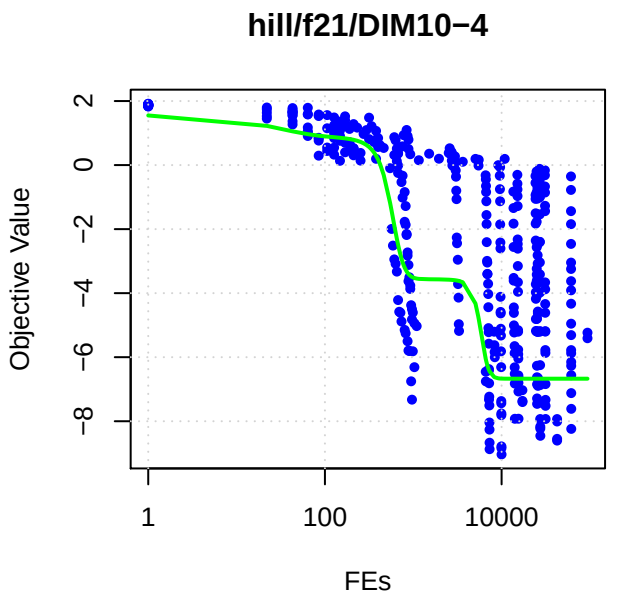
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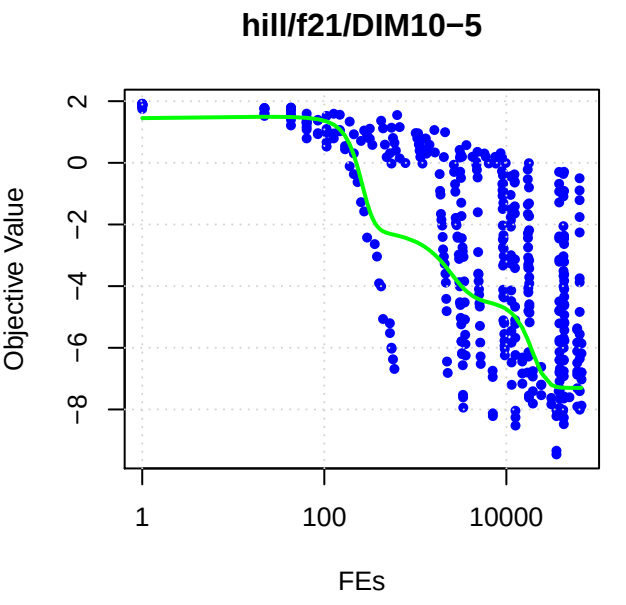
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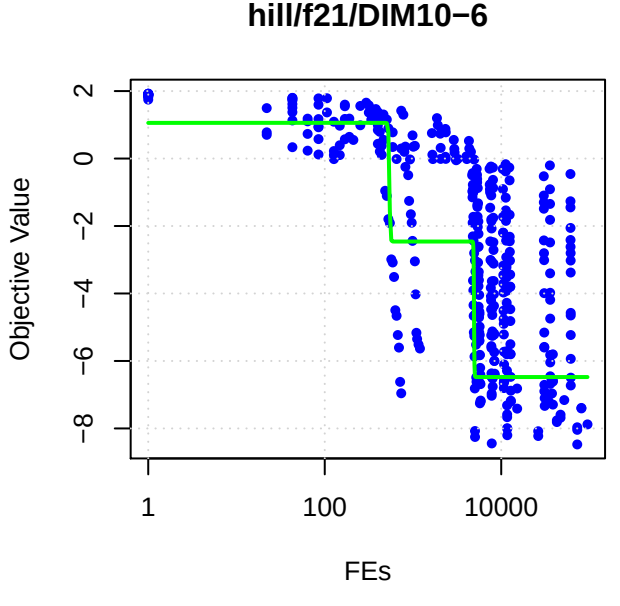
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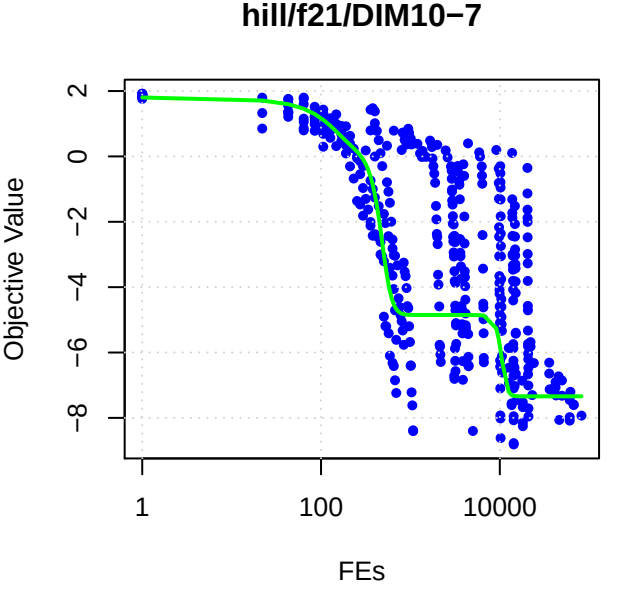
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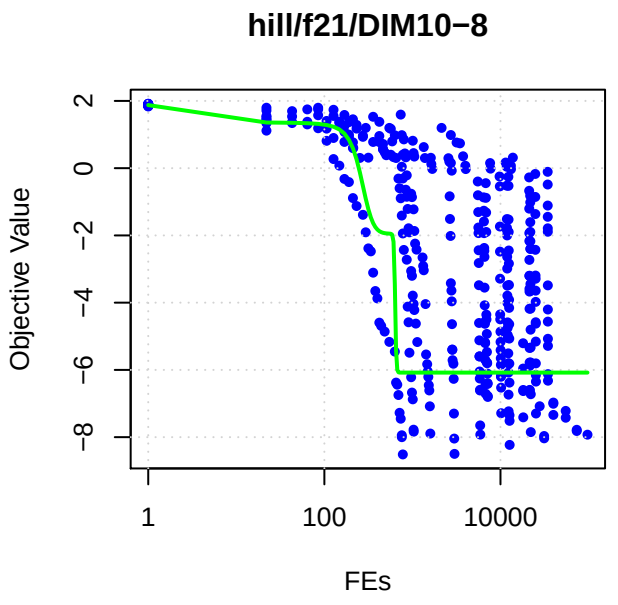
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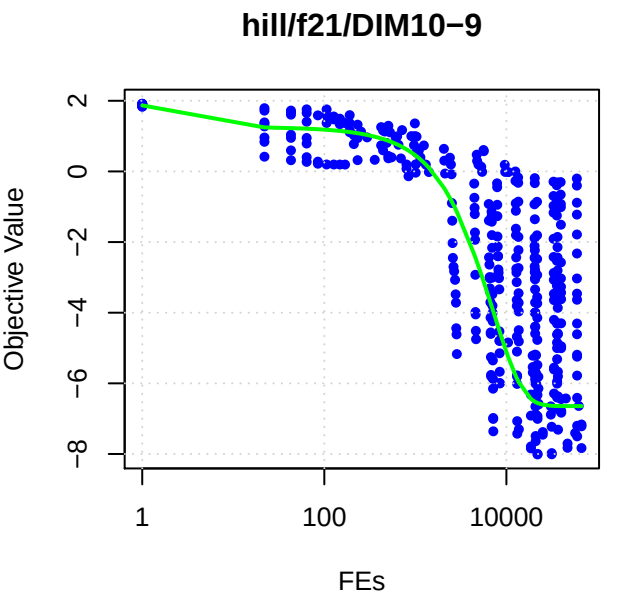
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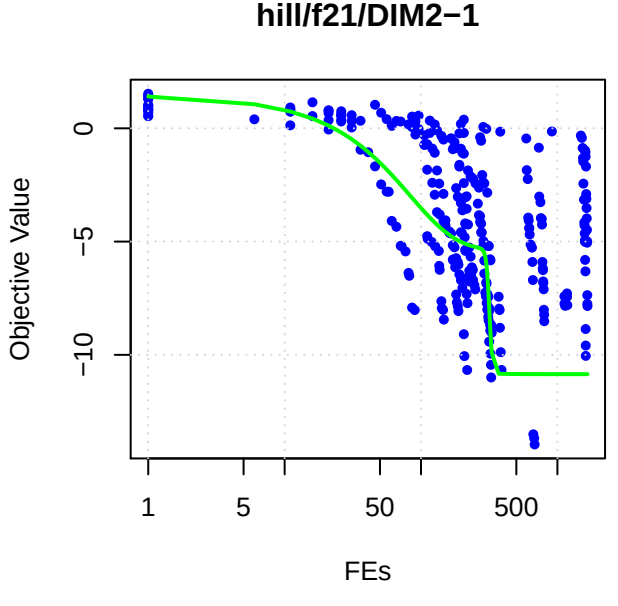
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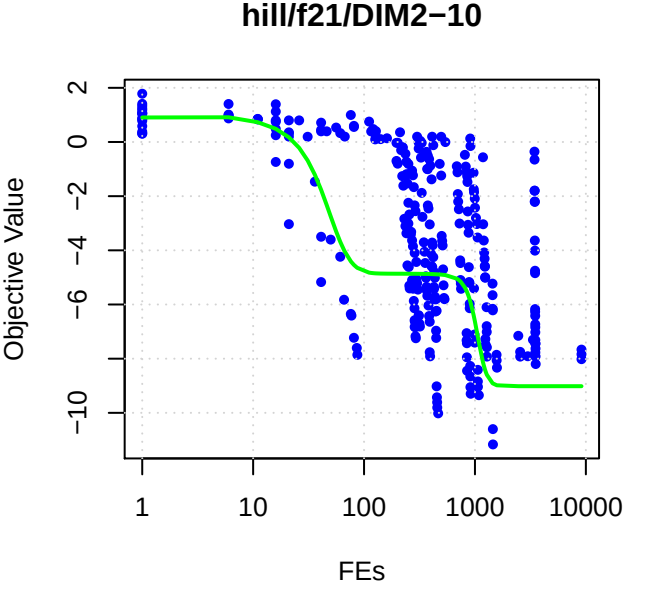
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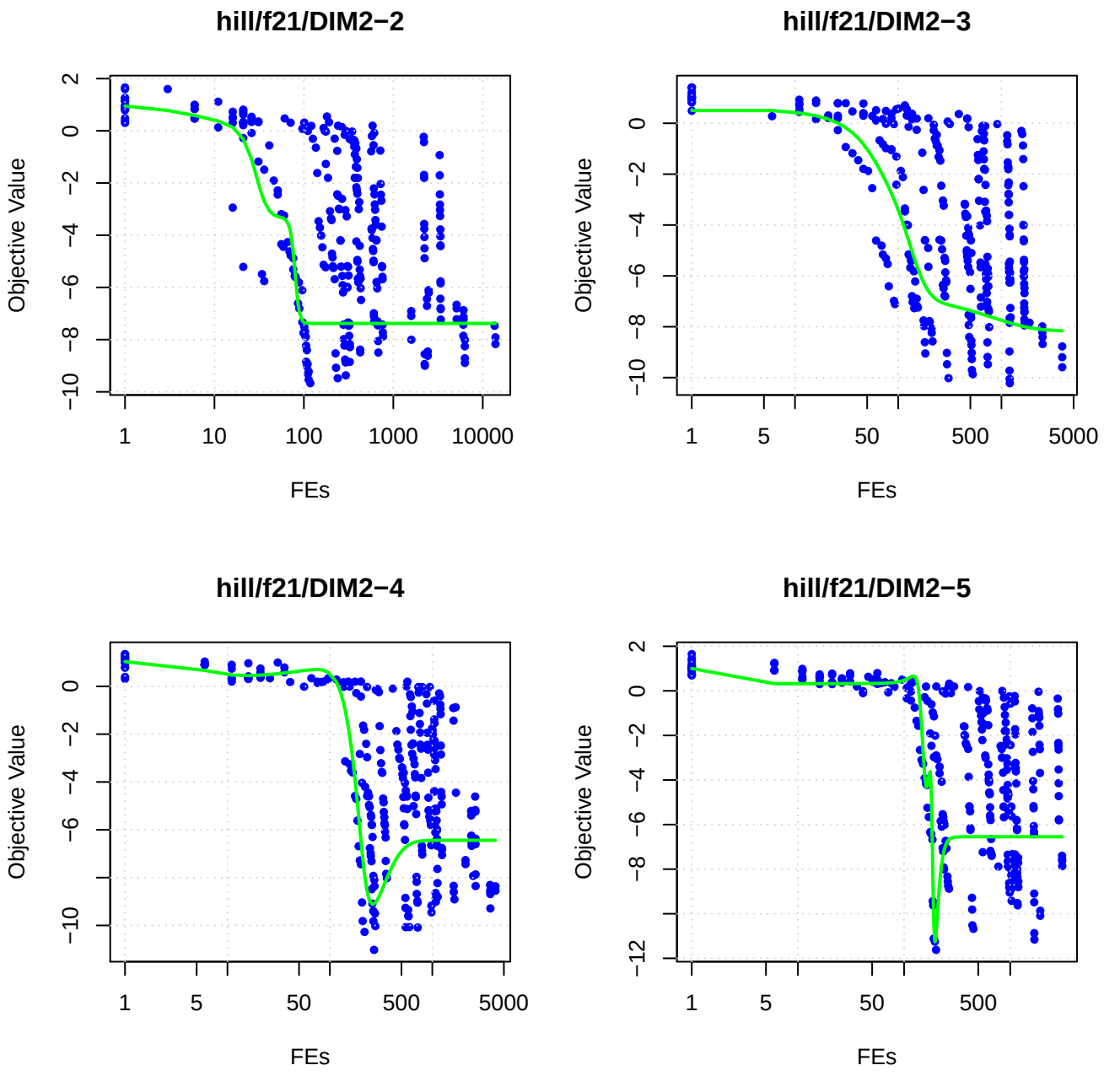
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Objective Value
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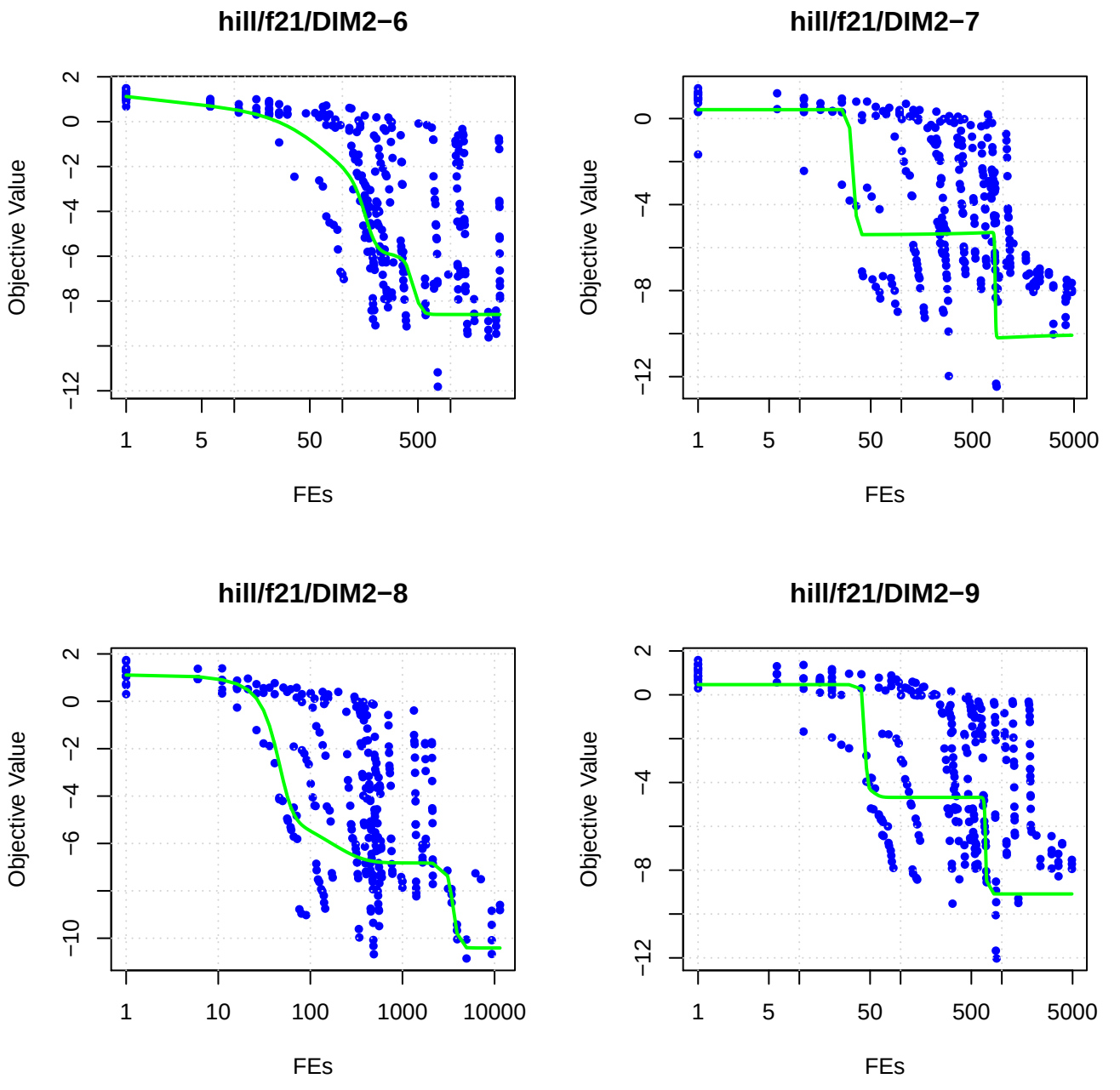
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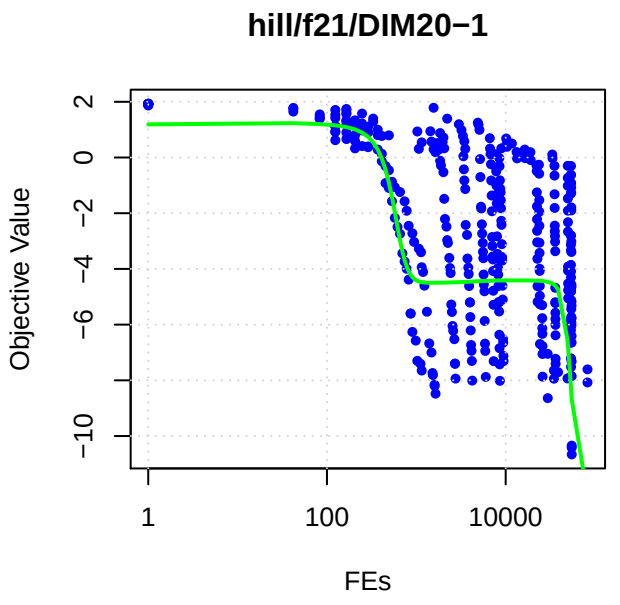
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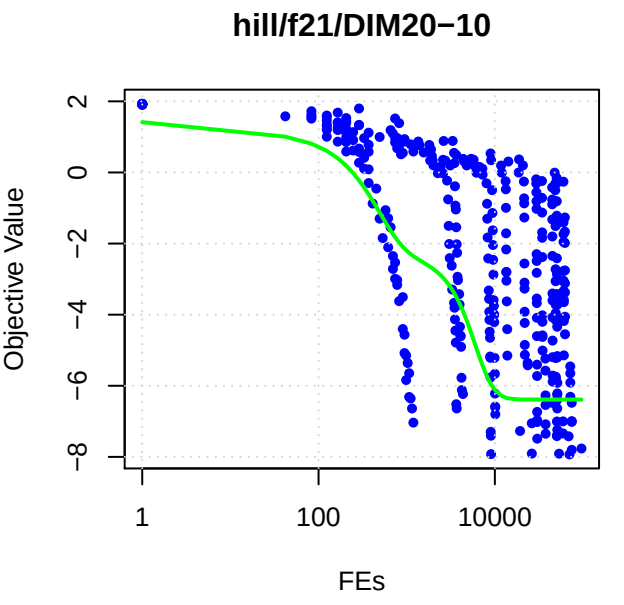
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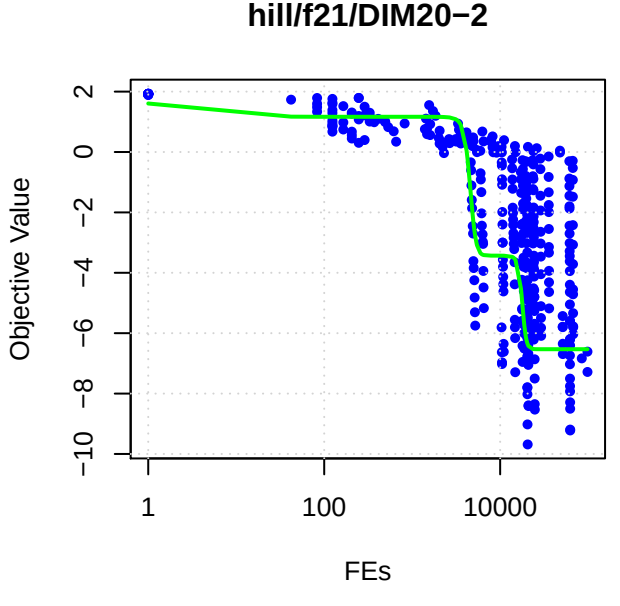
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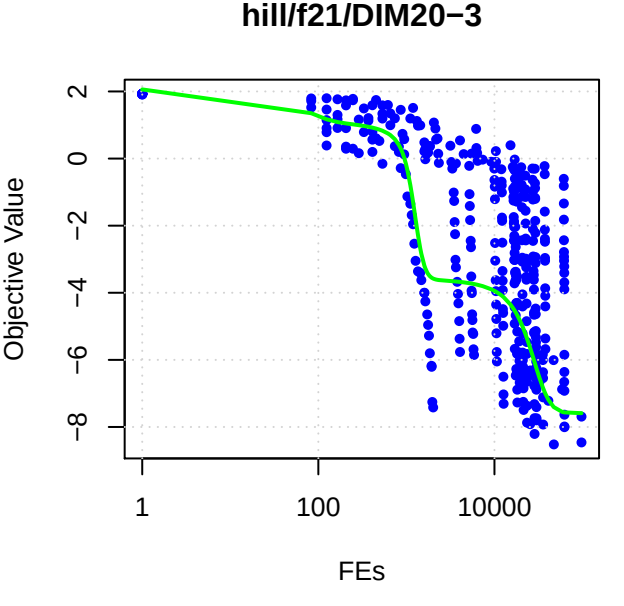
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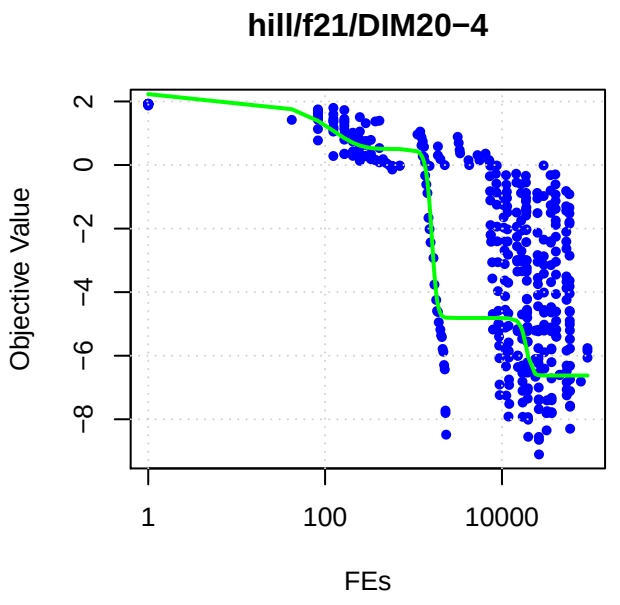
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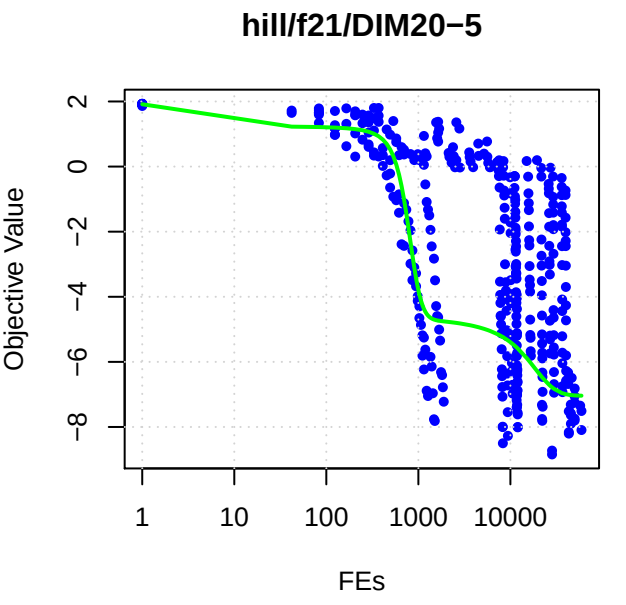
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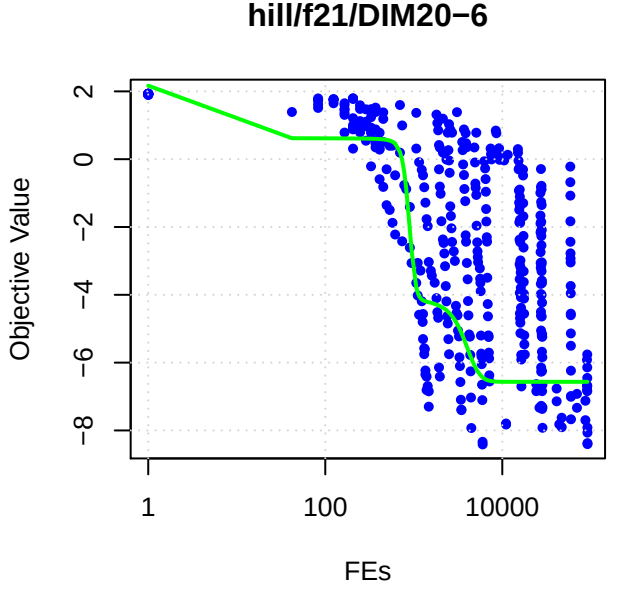
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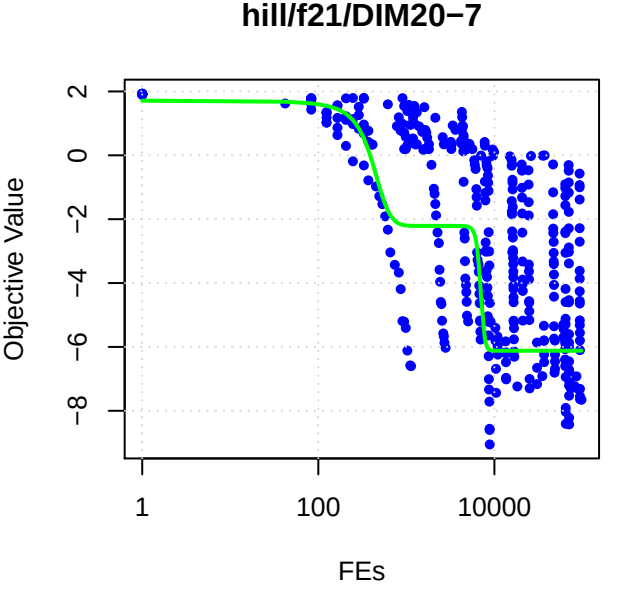
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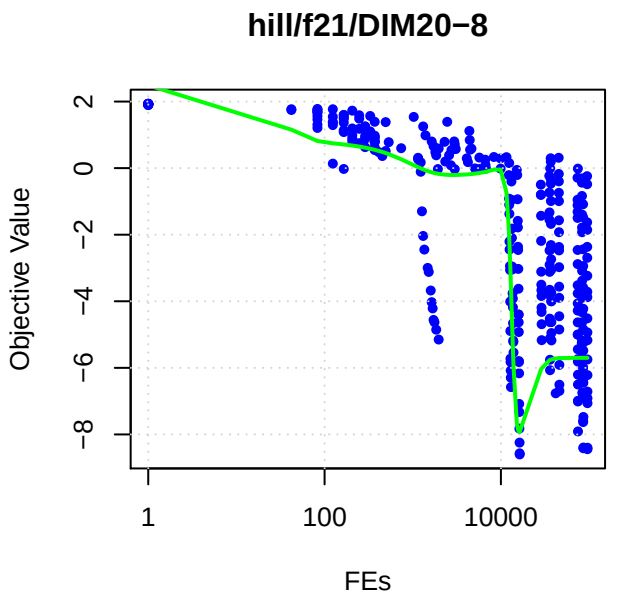
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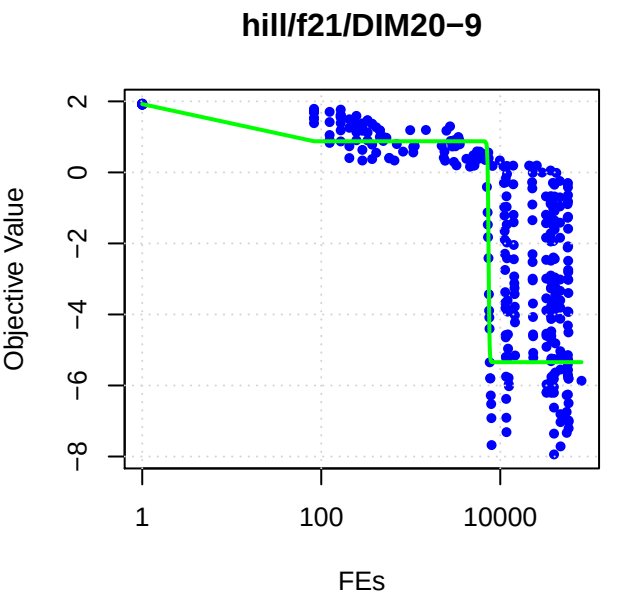
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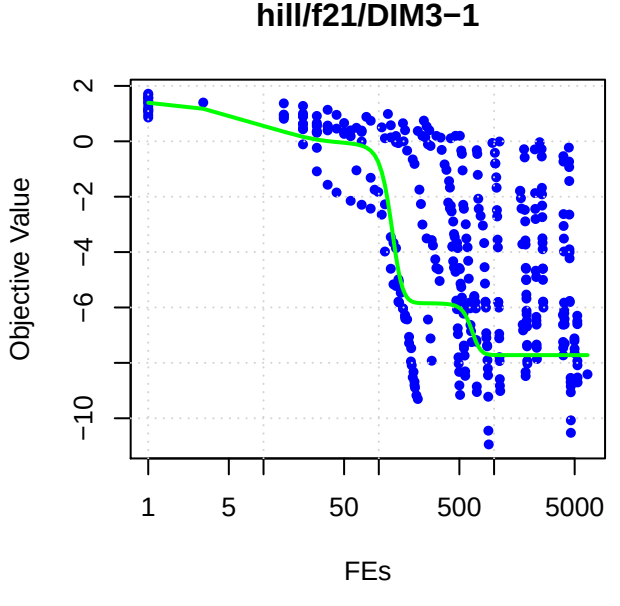
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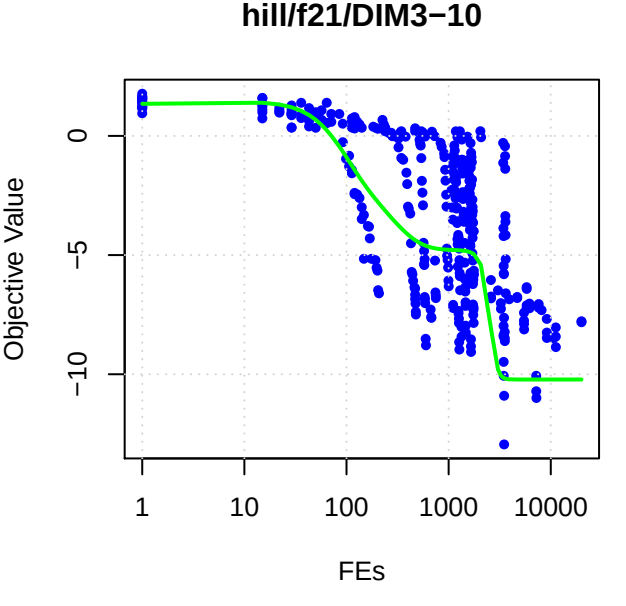
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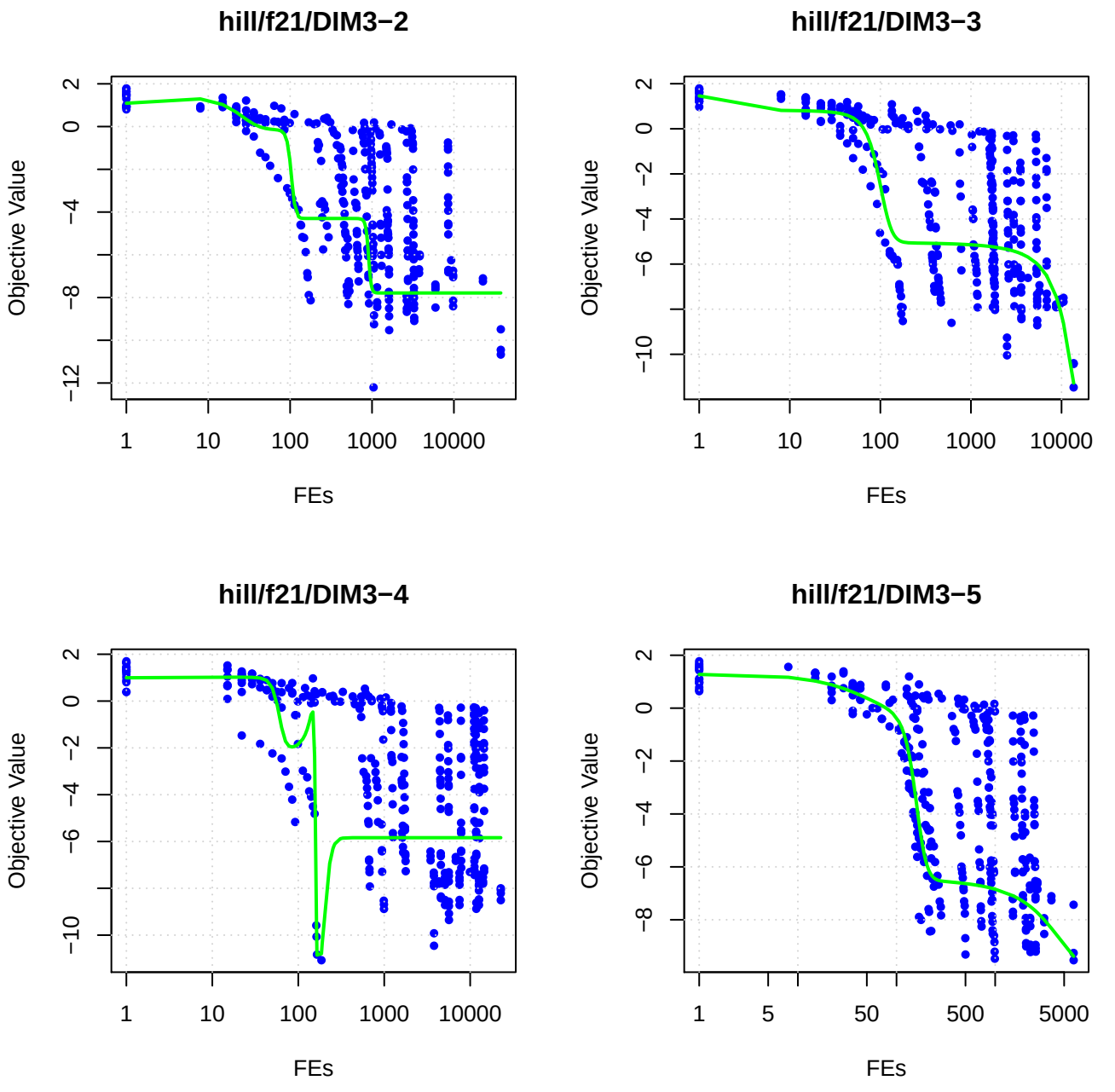
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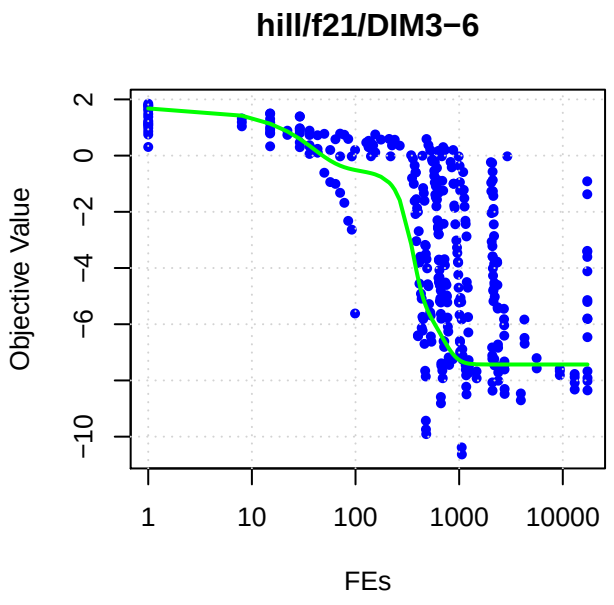
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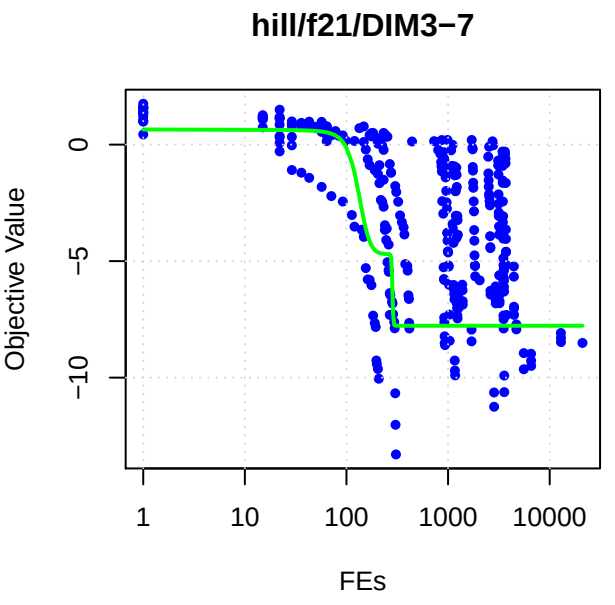
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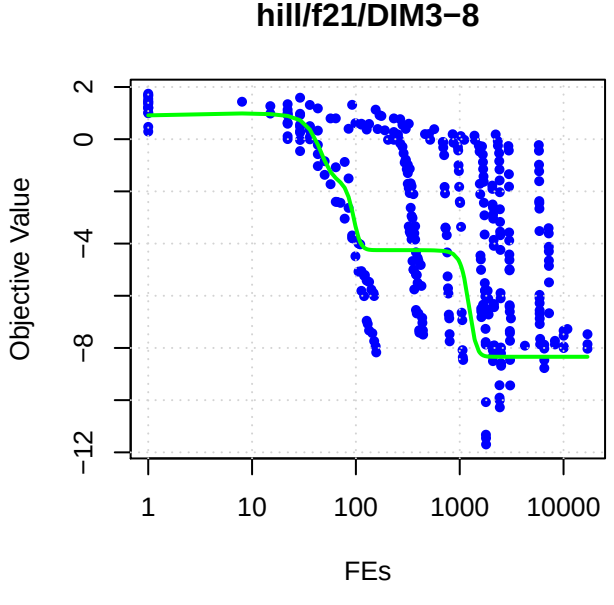
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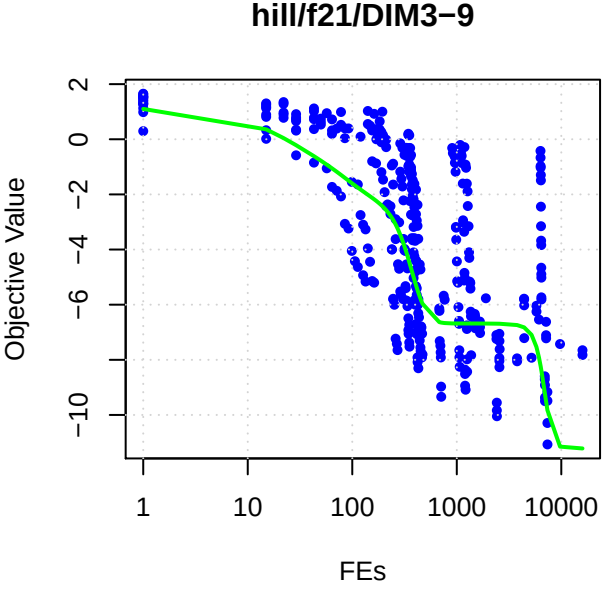
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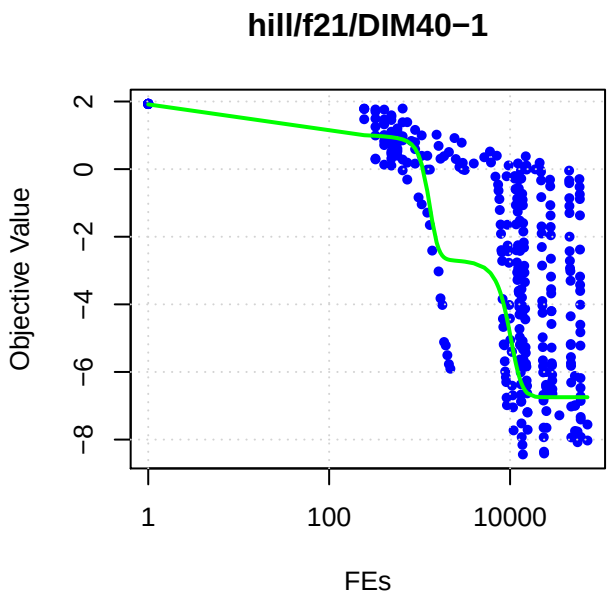
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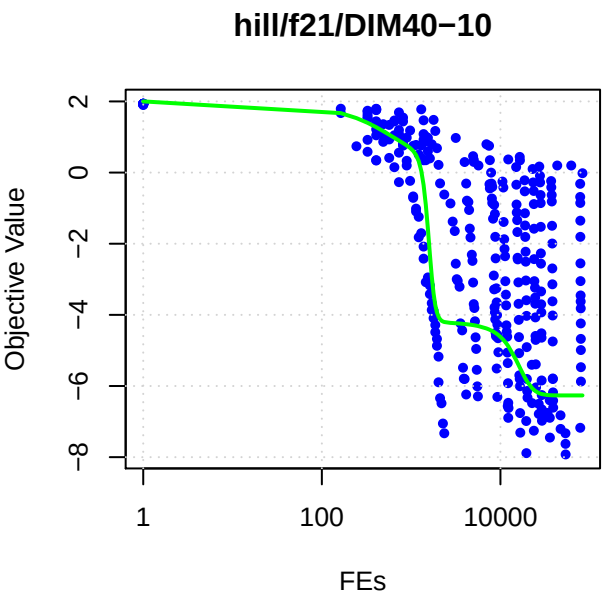
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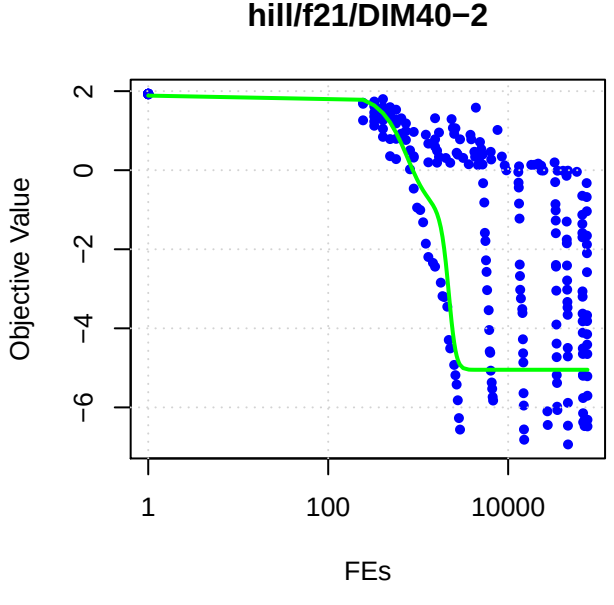
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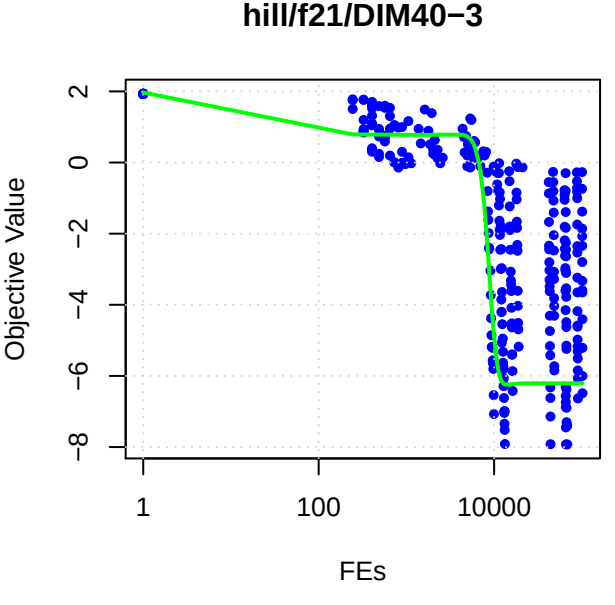
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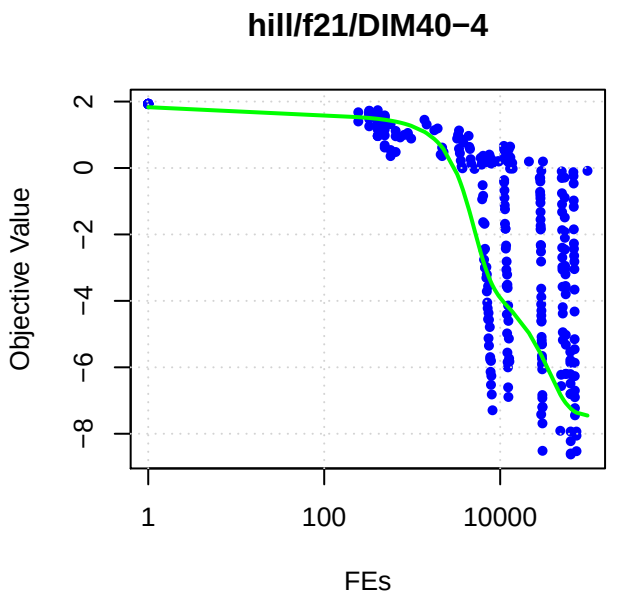
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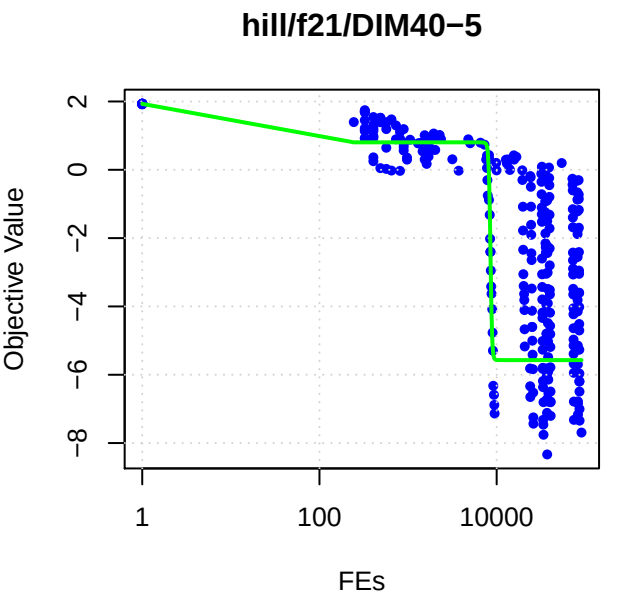
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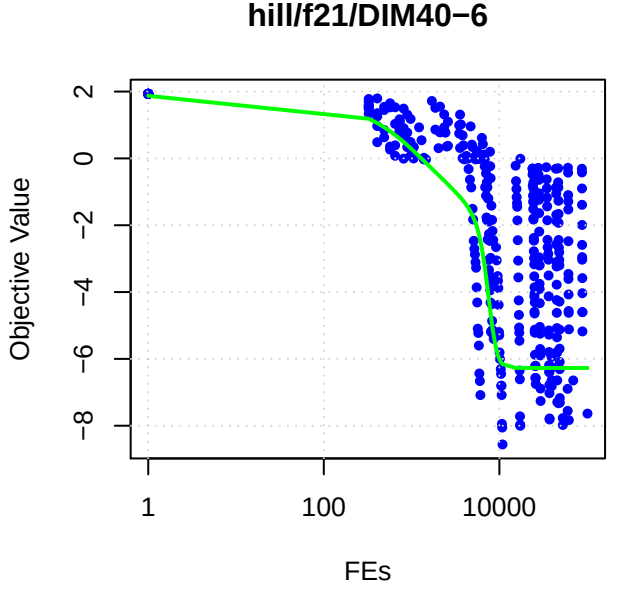
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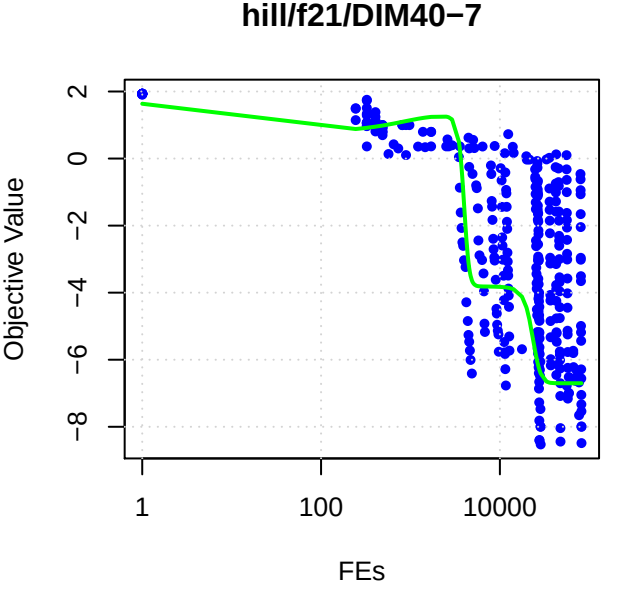
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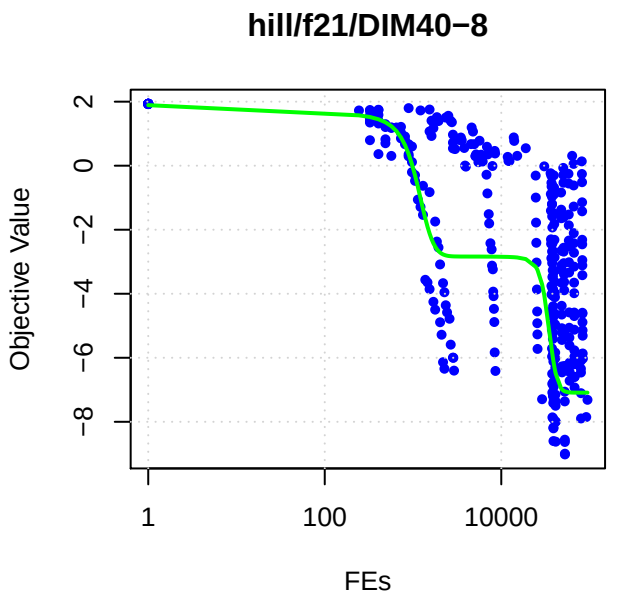
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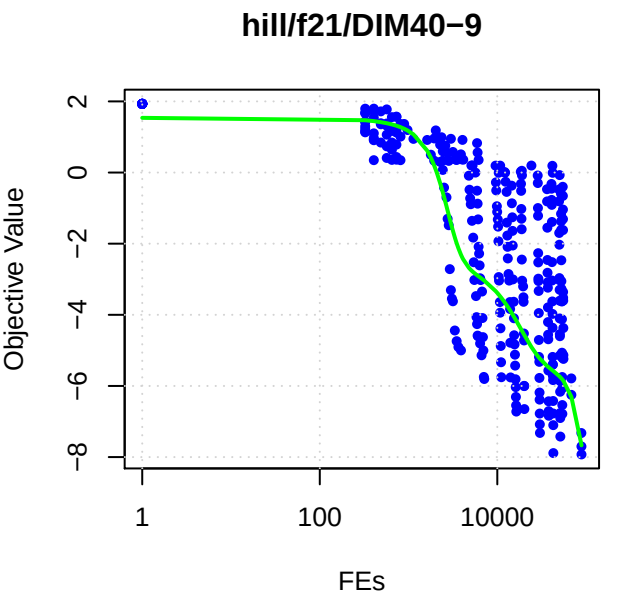
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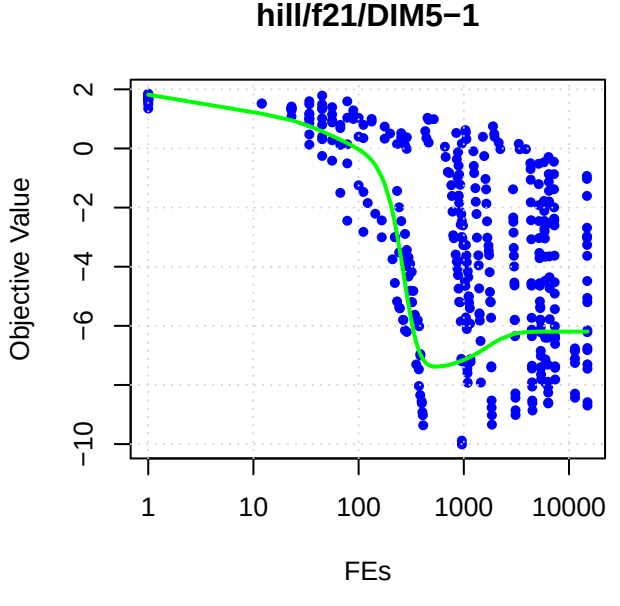
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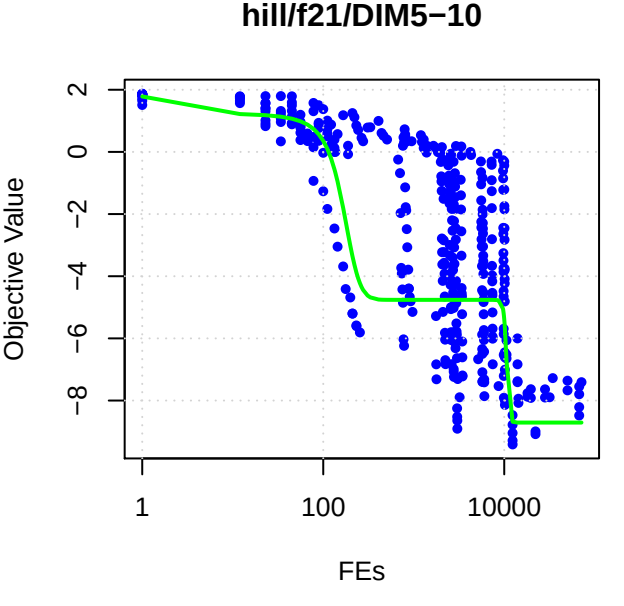
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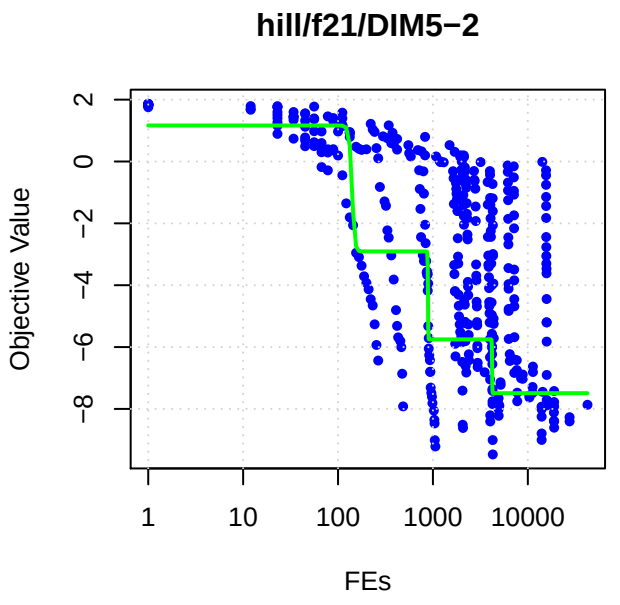
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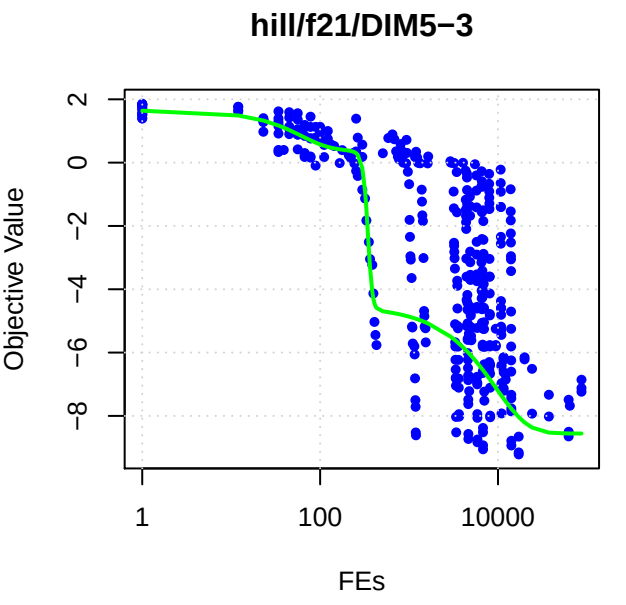
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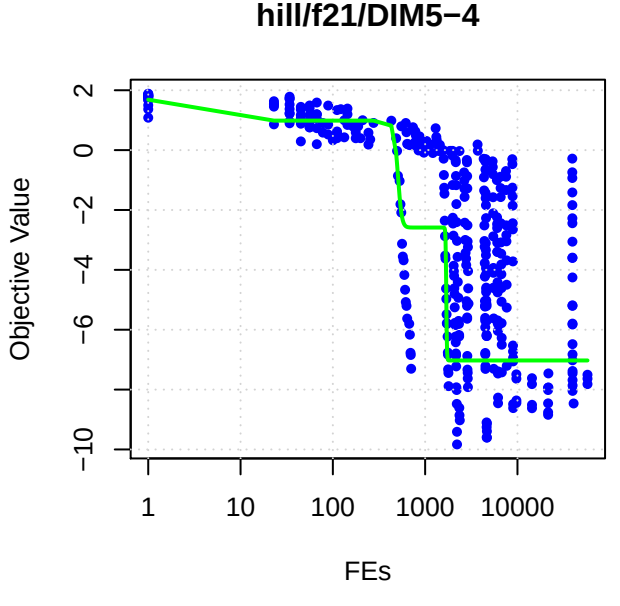
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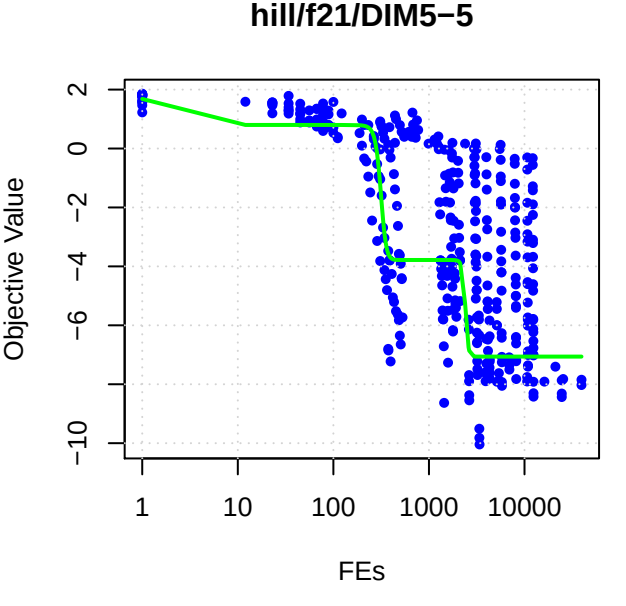
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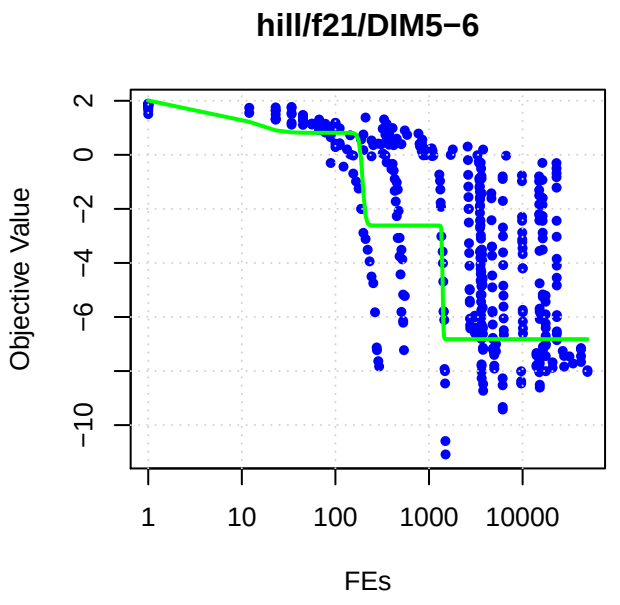
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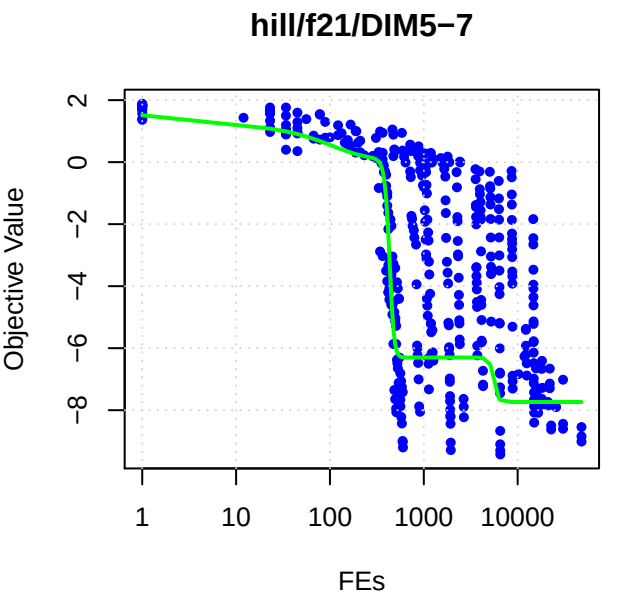
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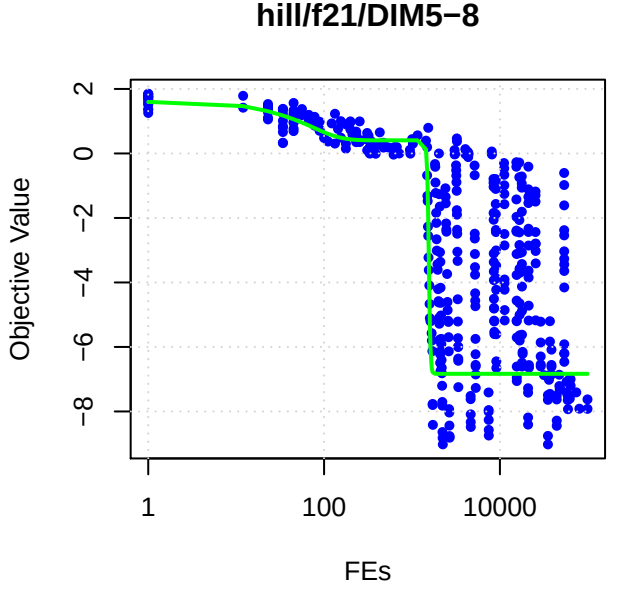
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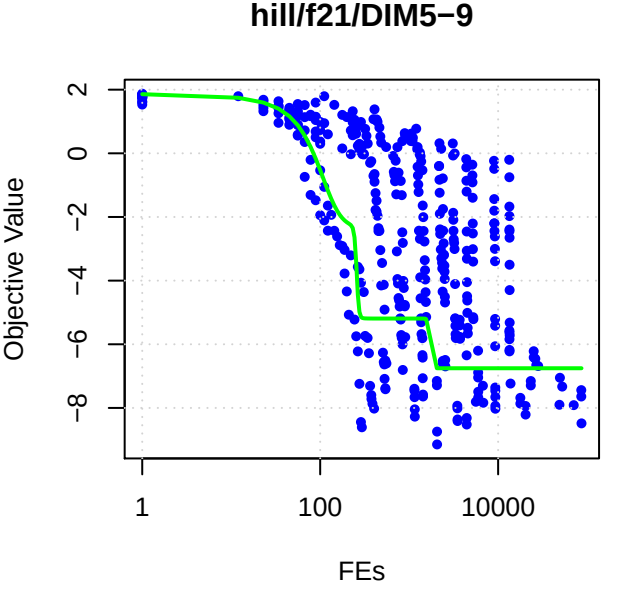
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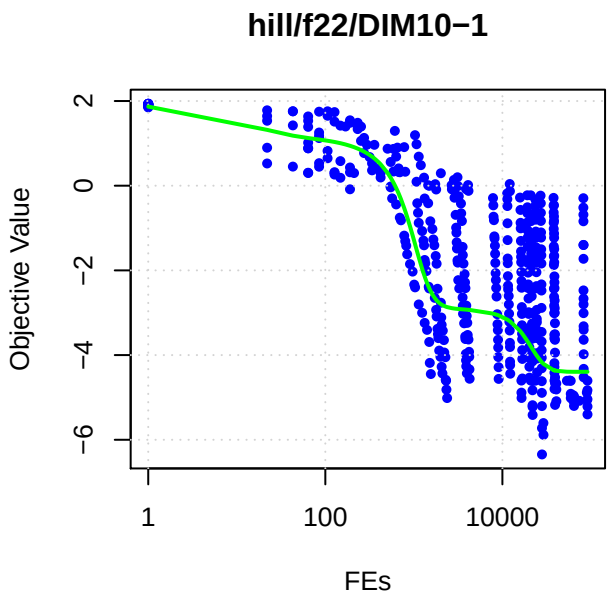
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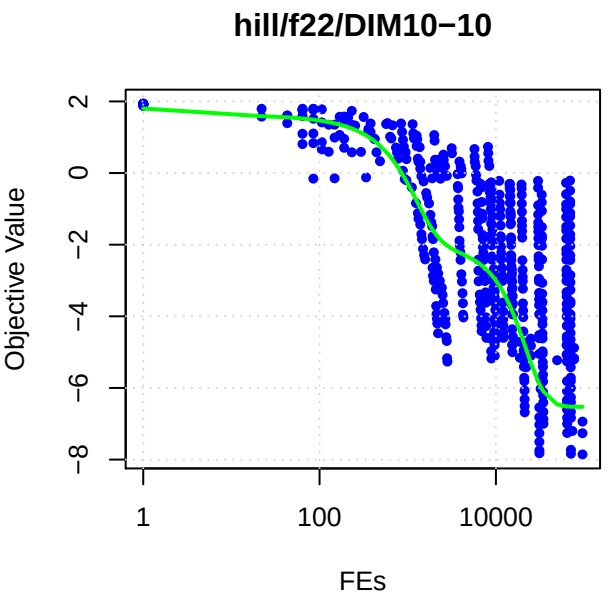
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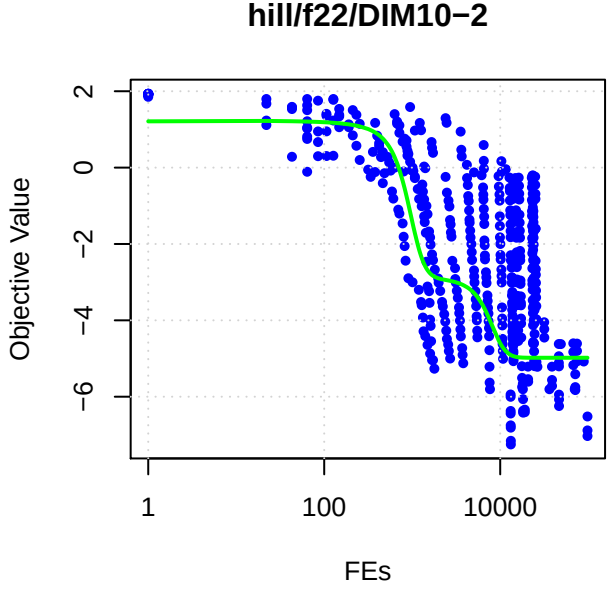
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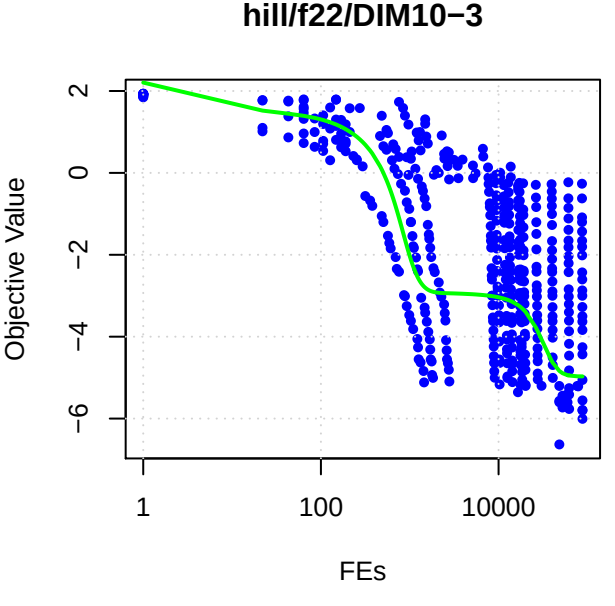
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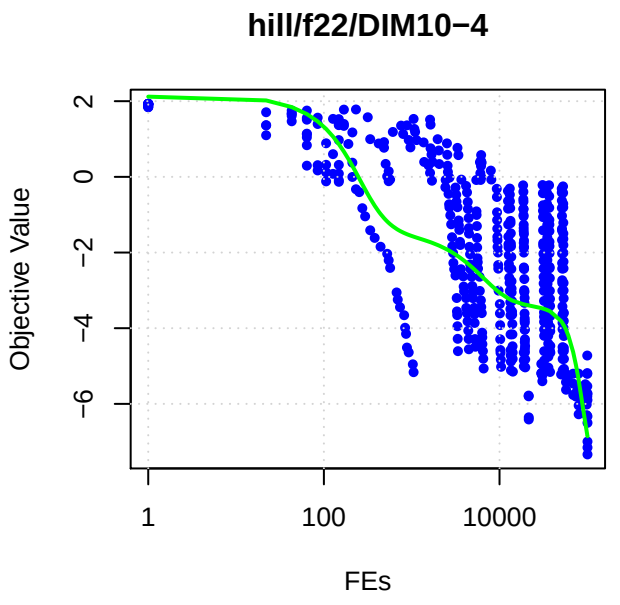
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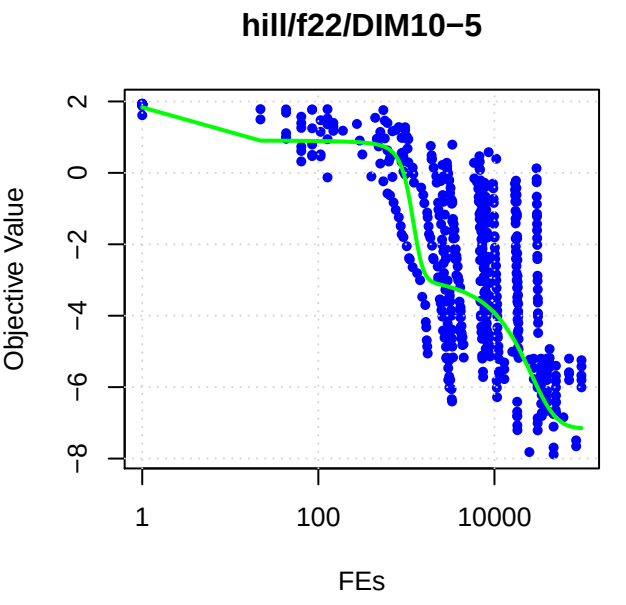
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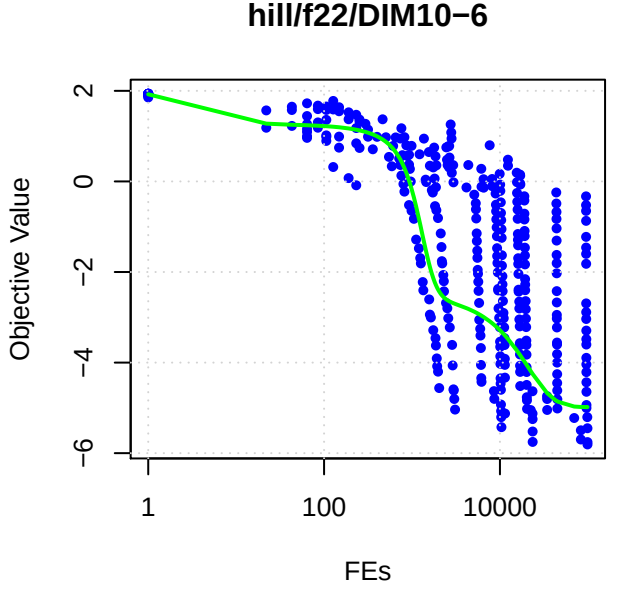
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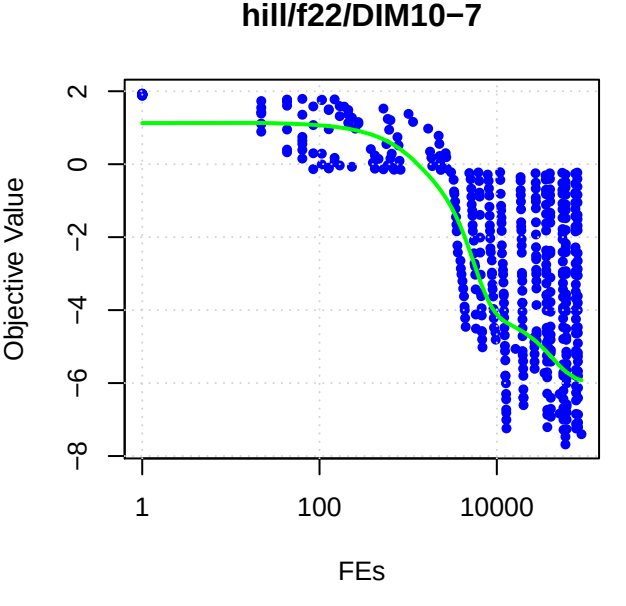
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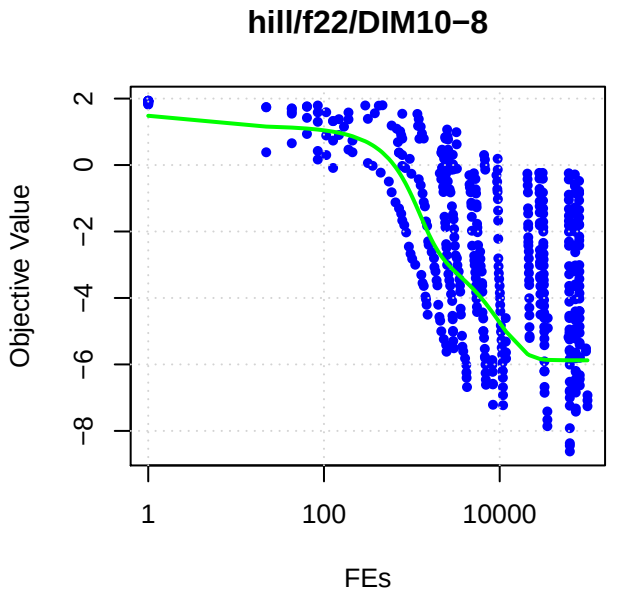
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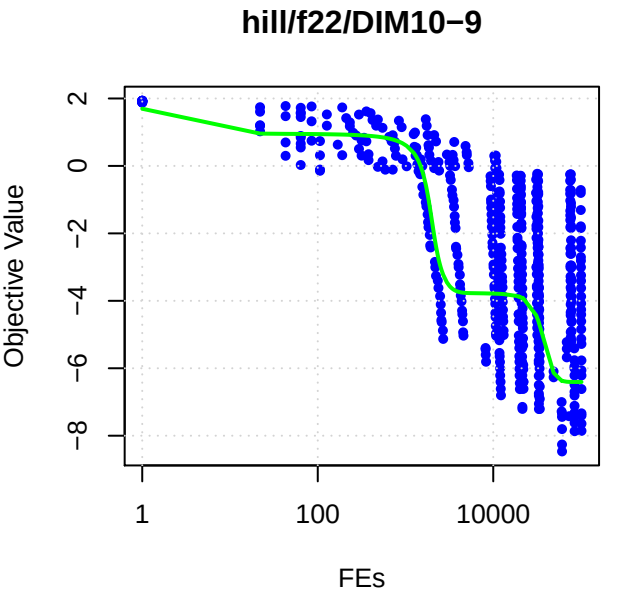
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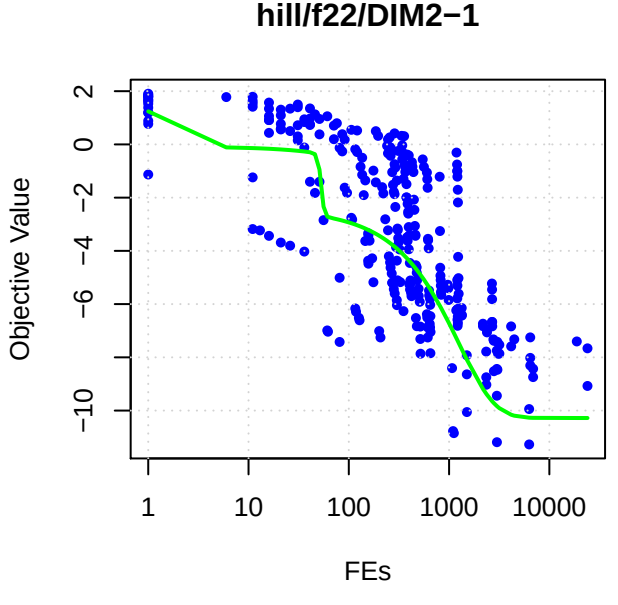
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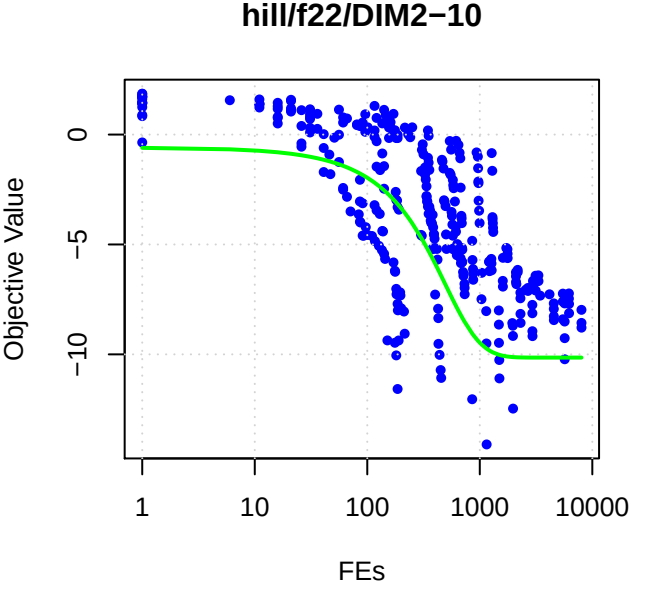
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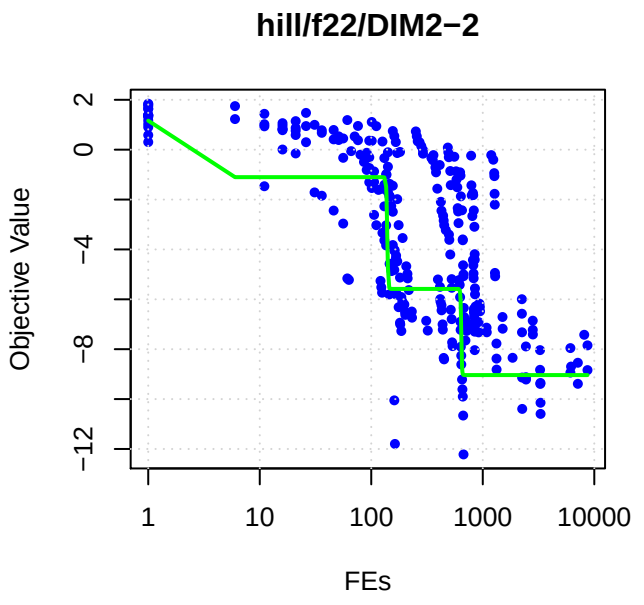
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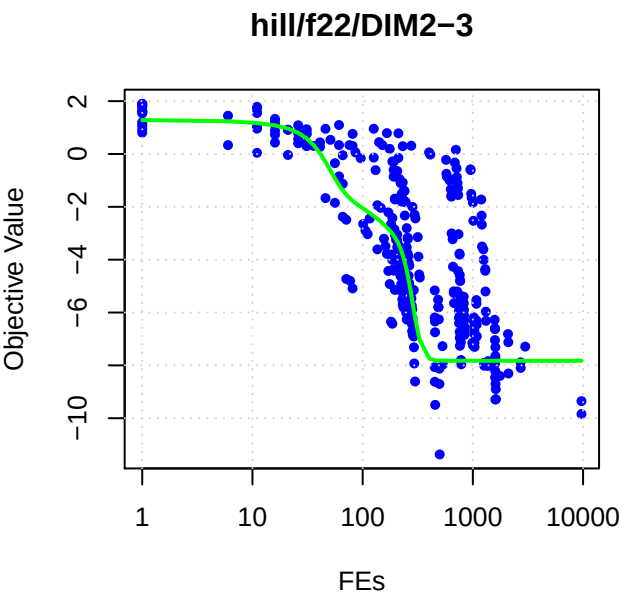
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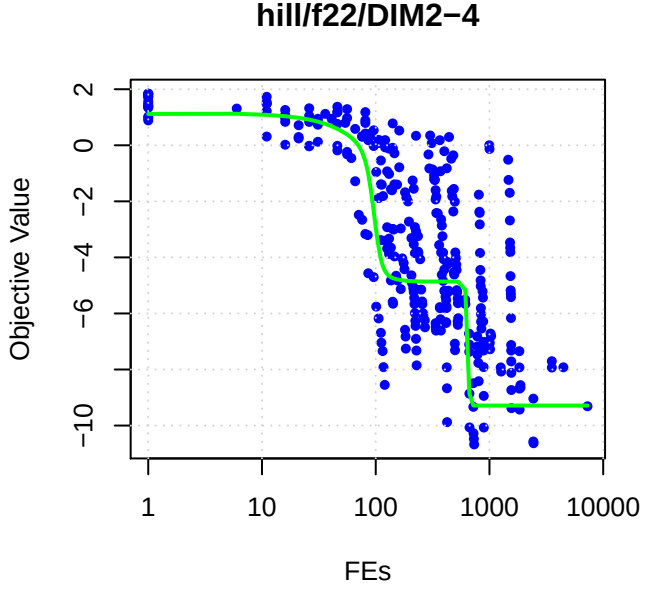
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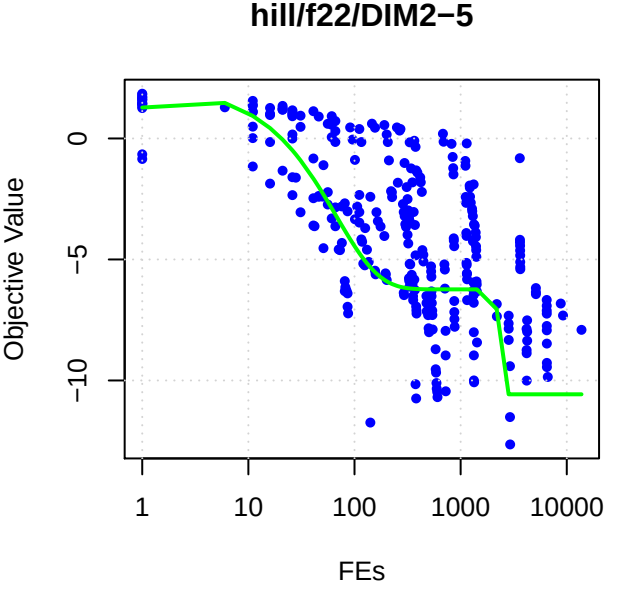
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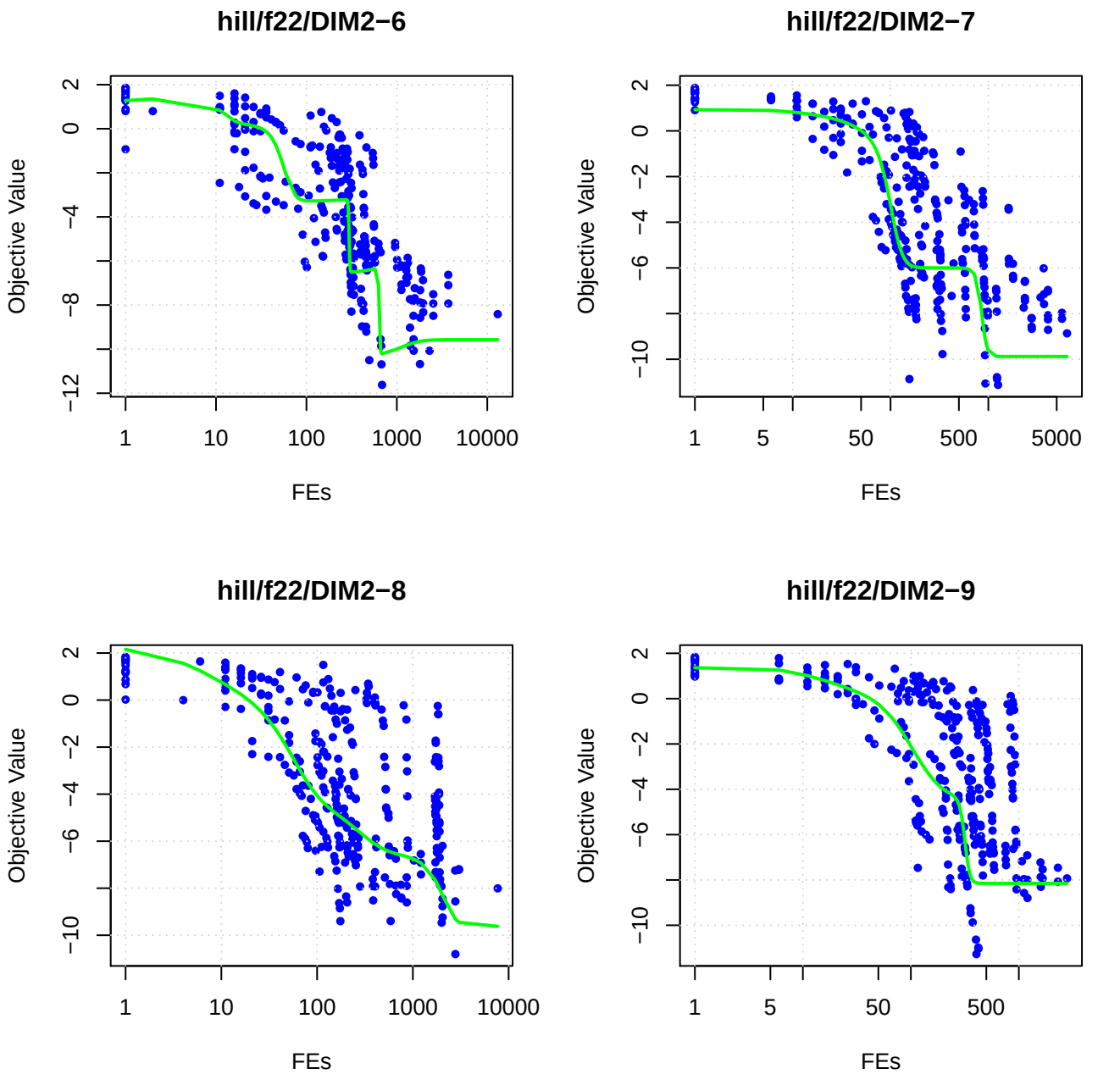
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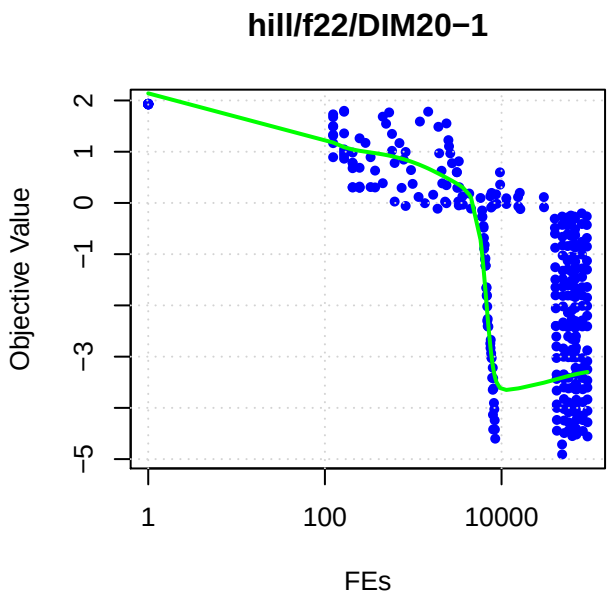
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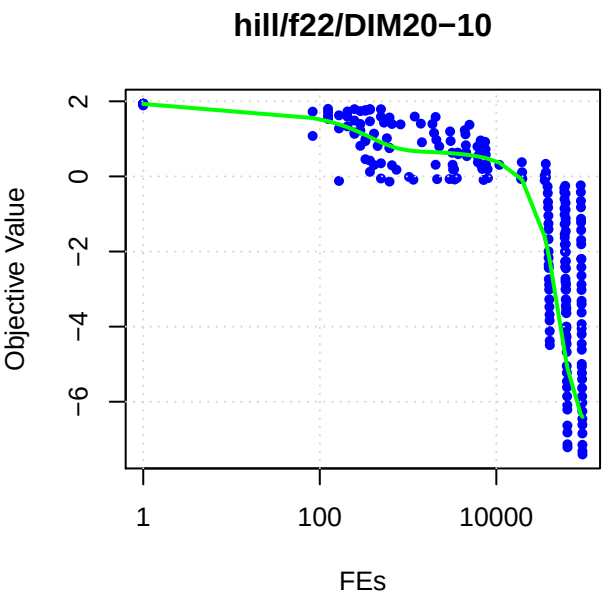
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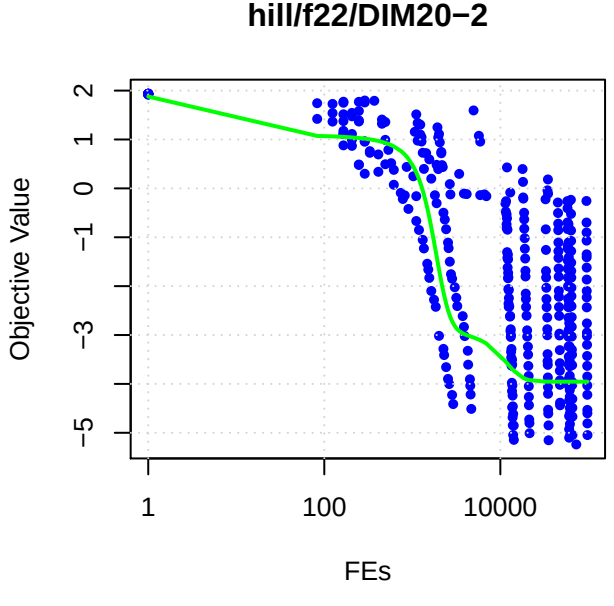
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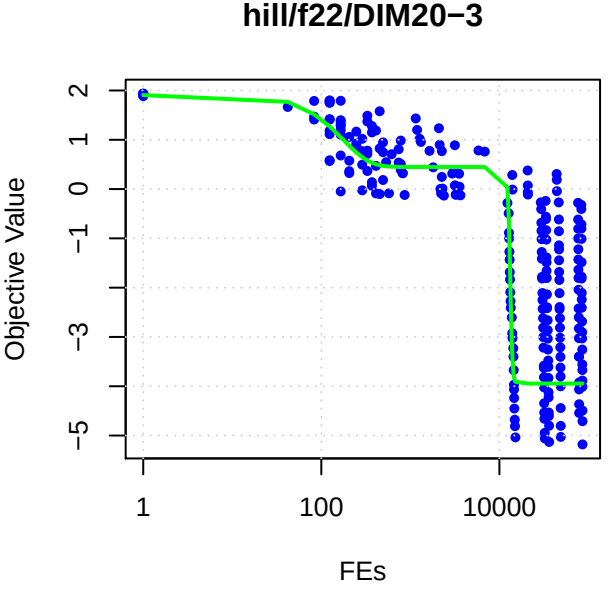
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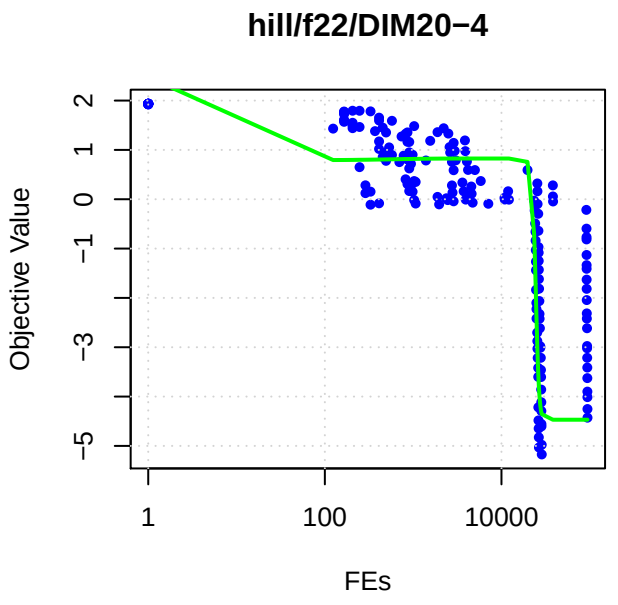
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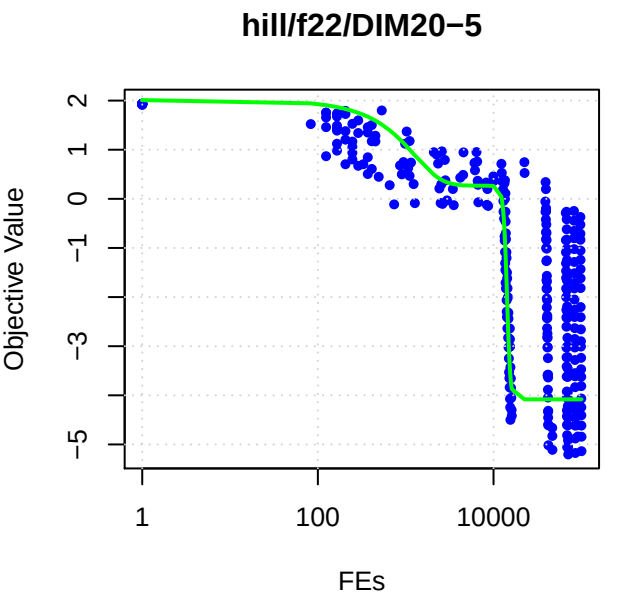
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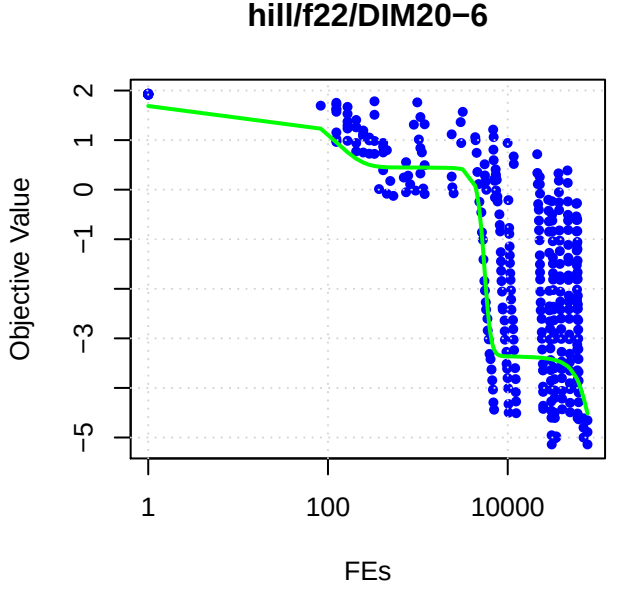
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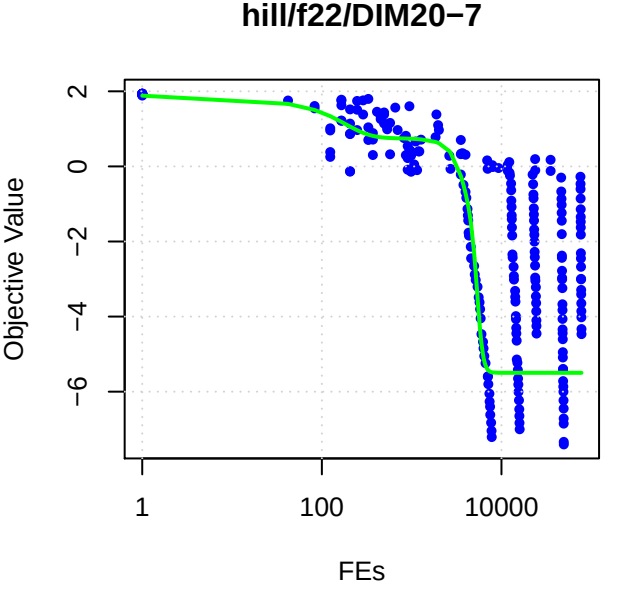
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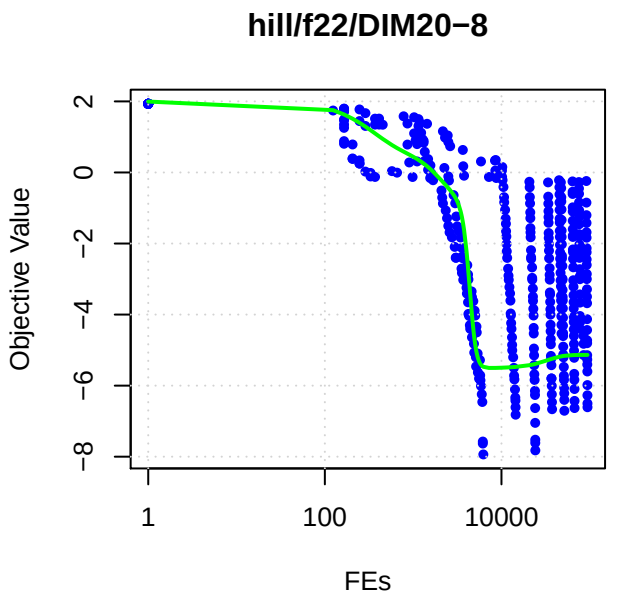
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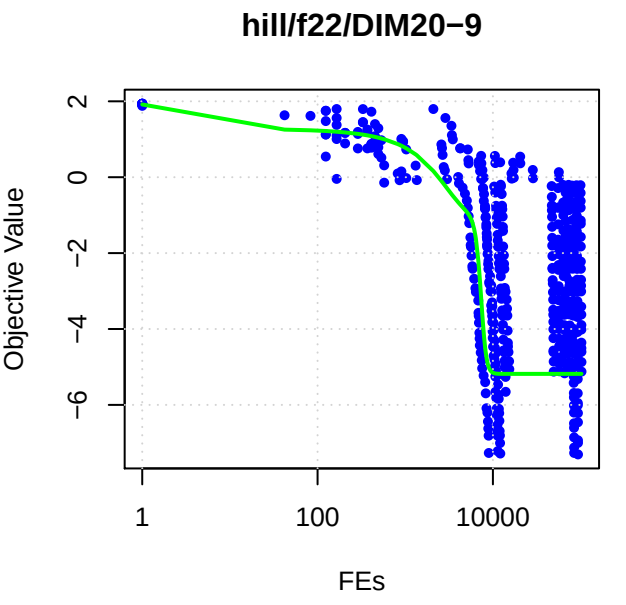
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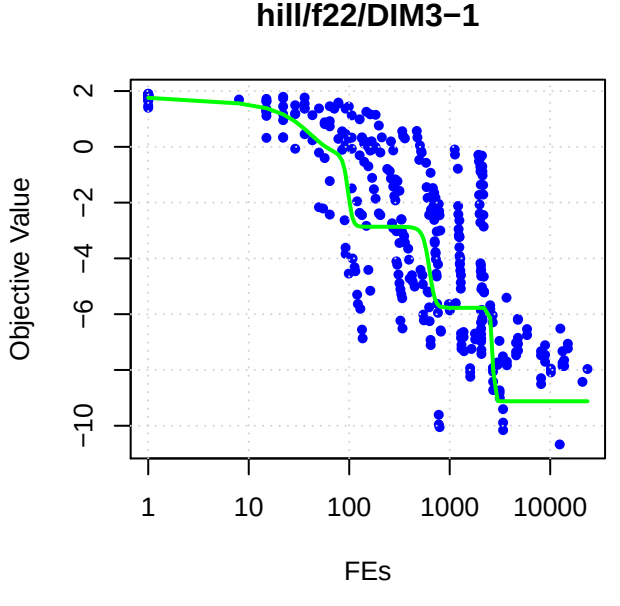
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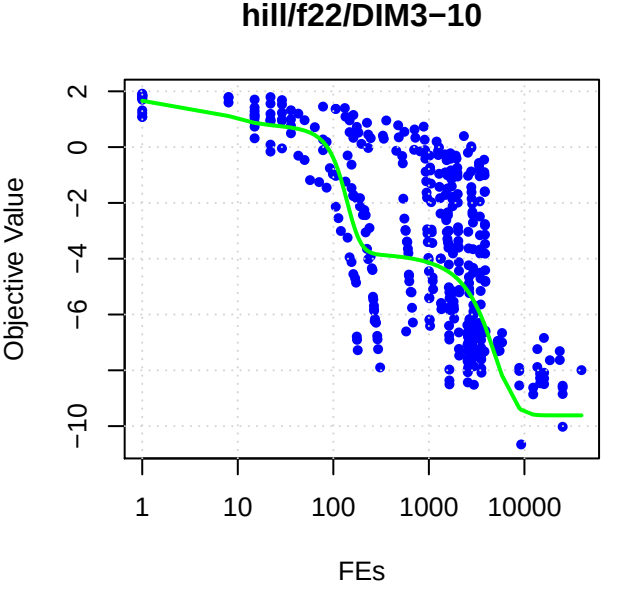
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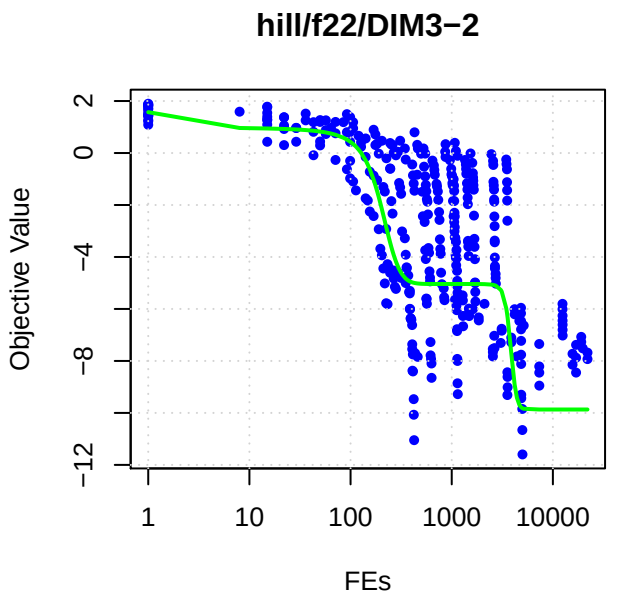
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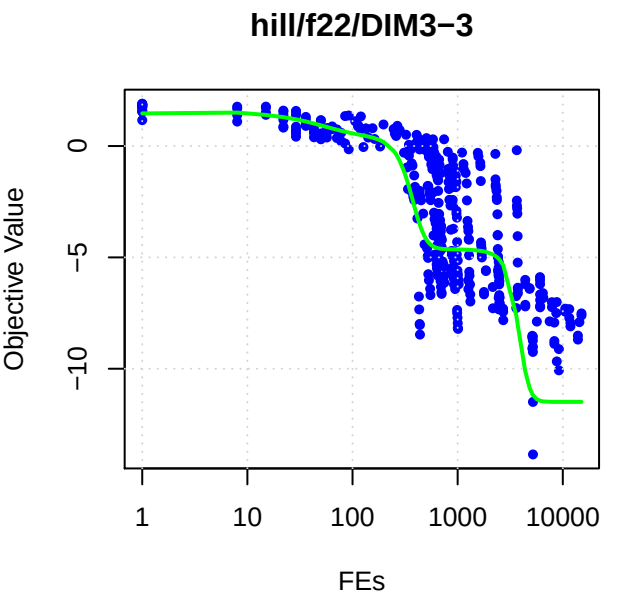
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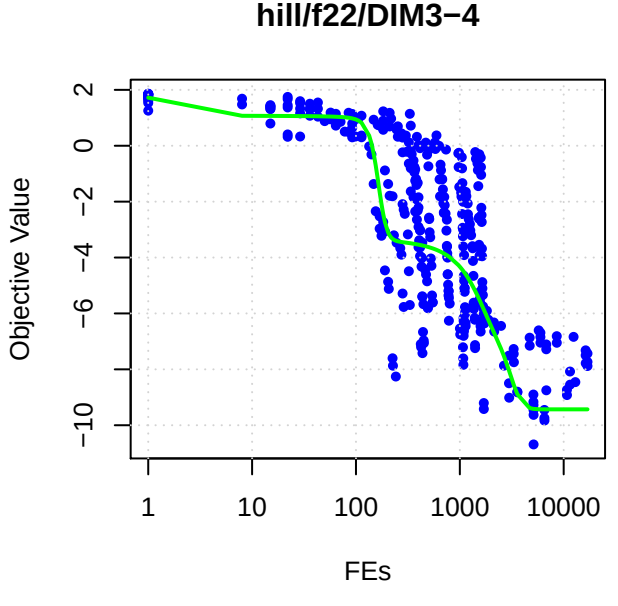
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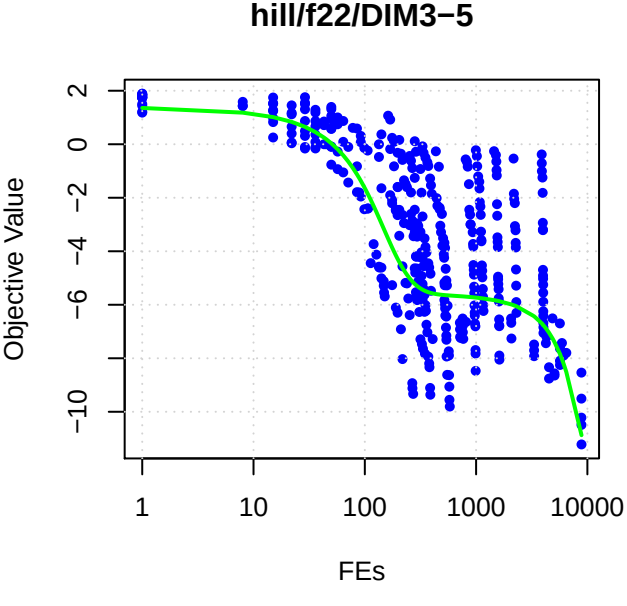
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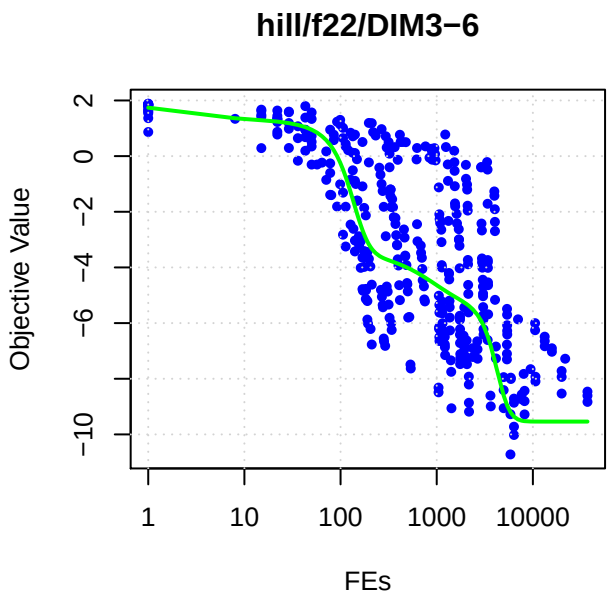
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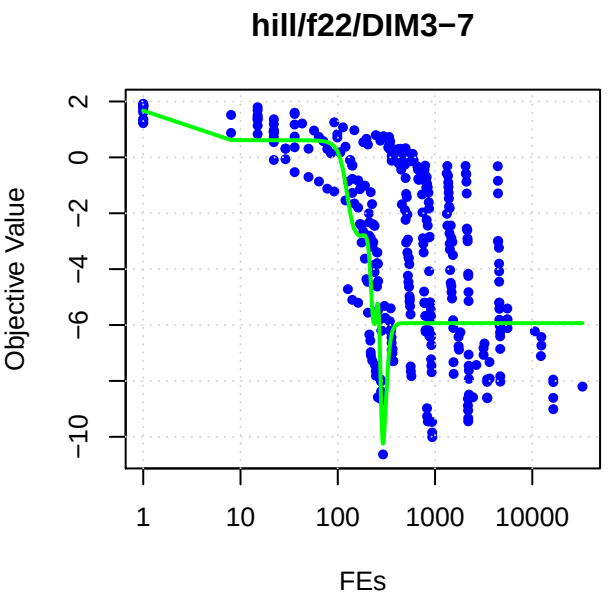
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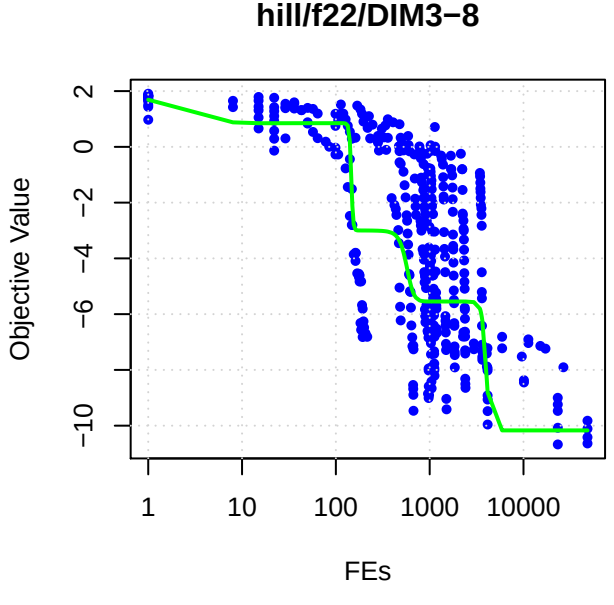
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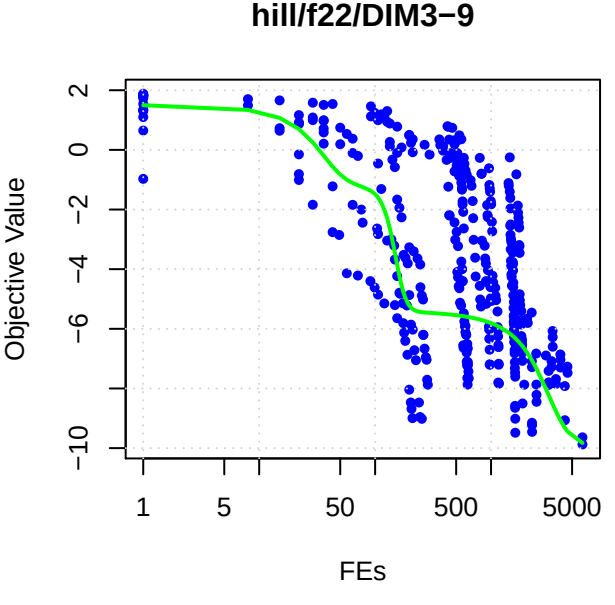
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Objective Value
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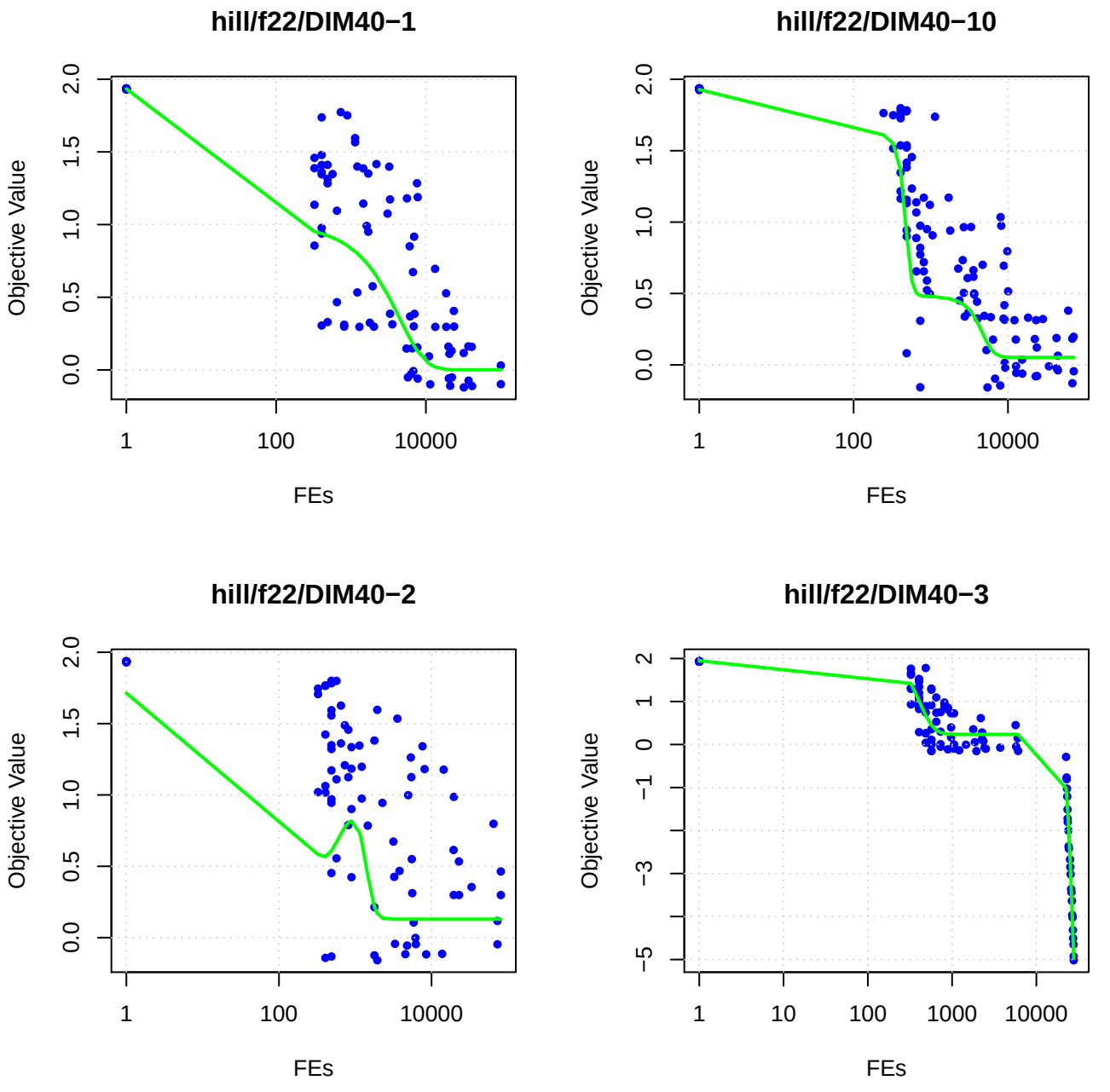
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hill/f22/DIM40−10
hill/f22/DIM40−2
hill/f22/DIM40−3
Objective Value
FEs
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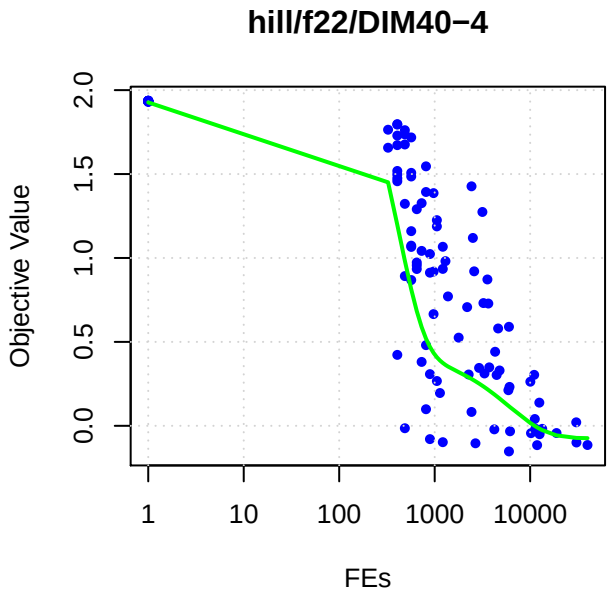
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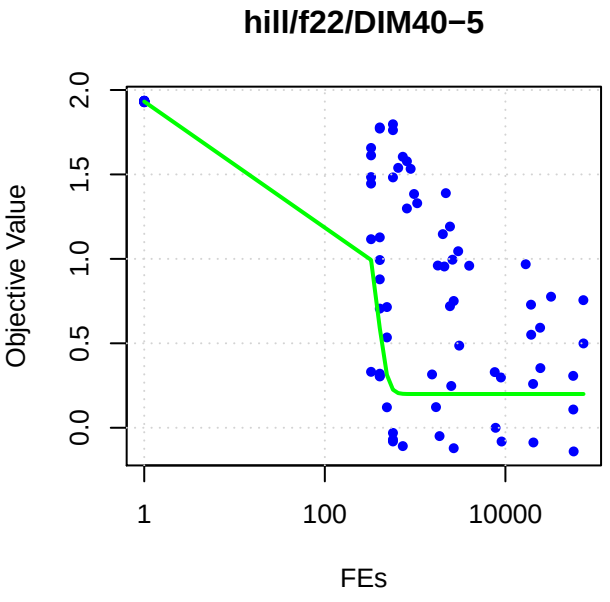
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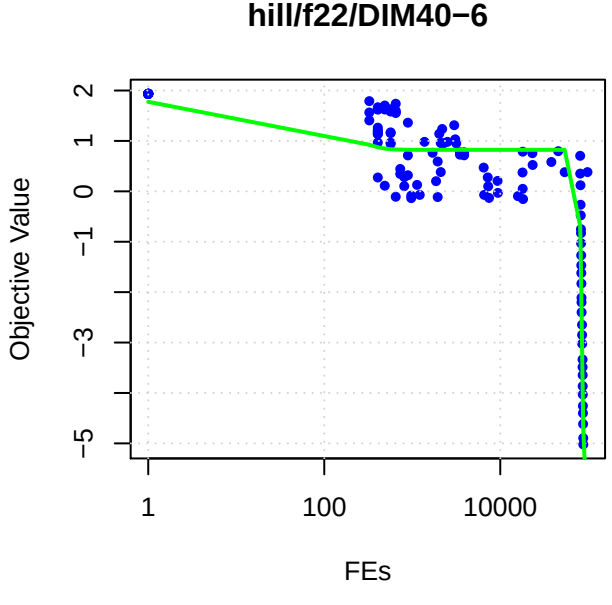
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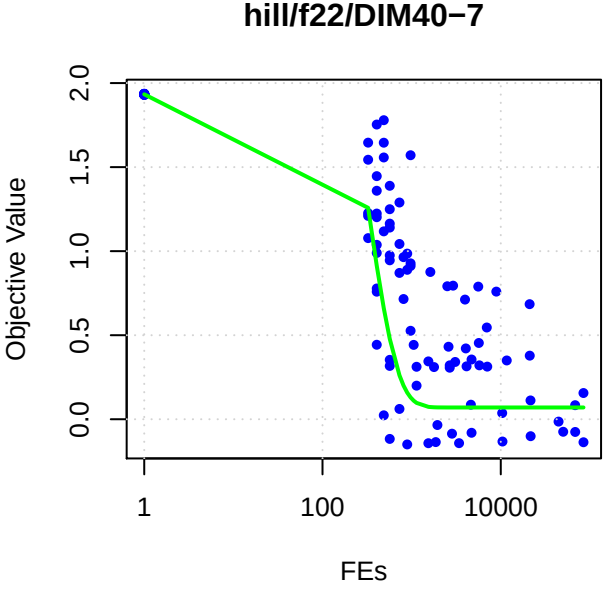
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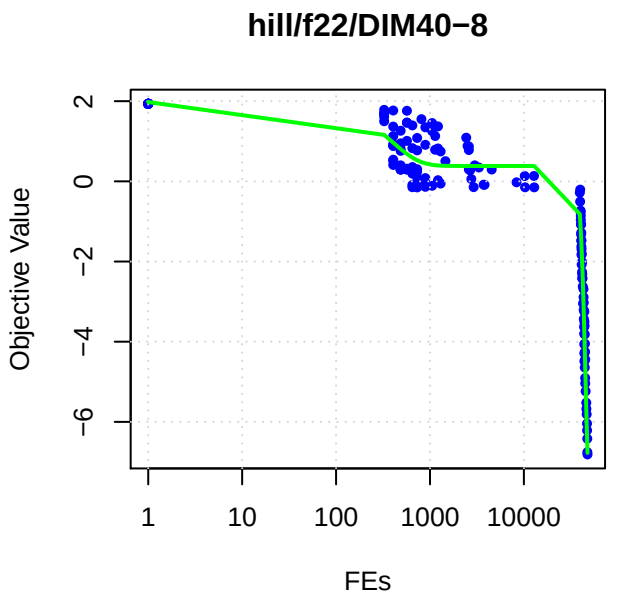
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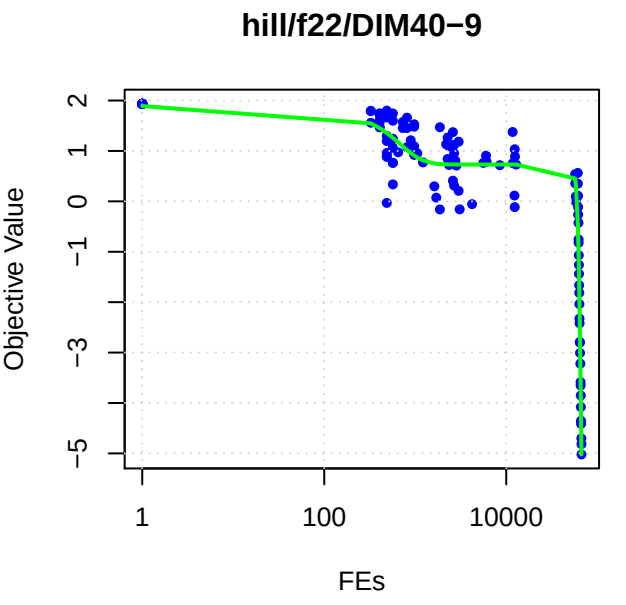
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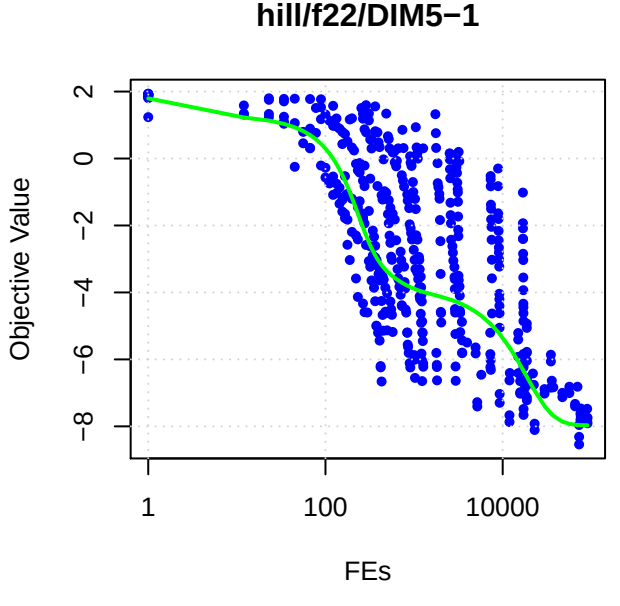
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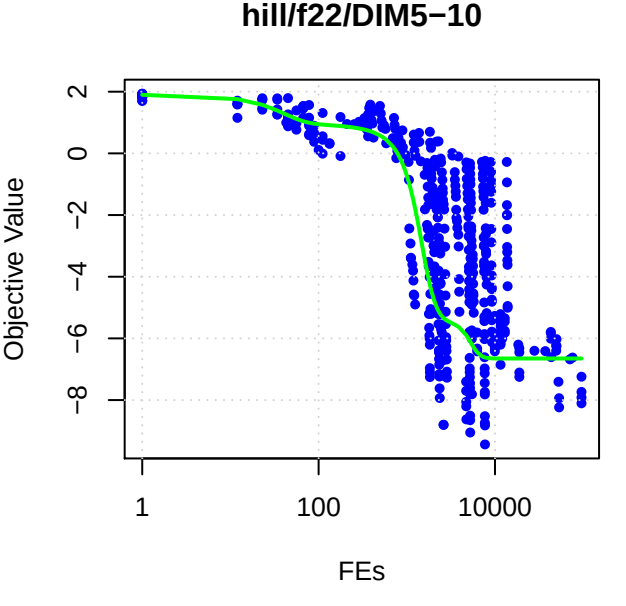
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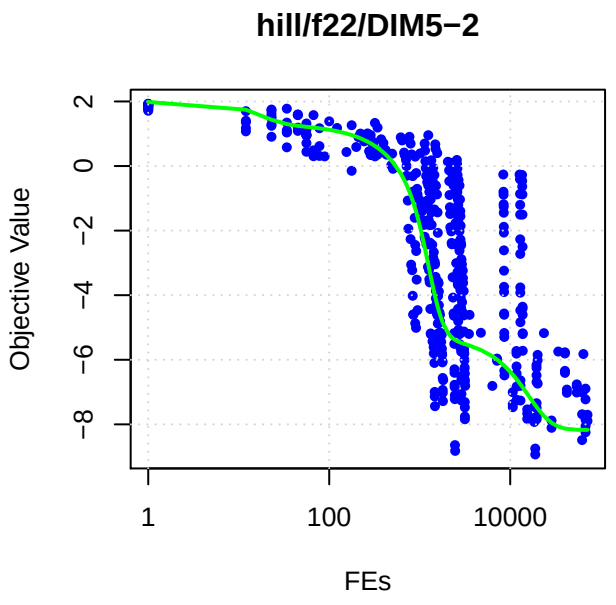
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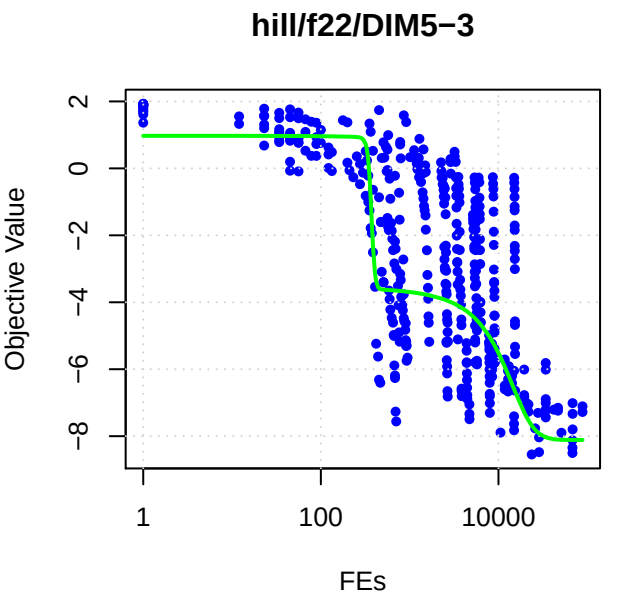
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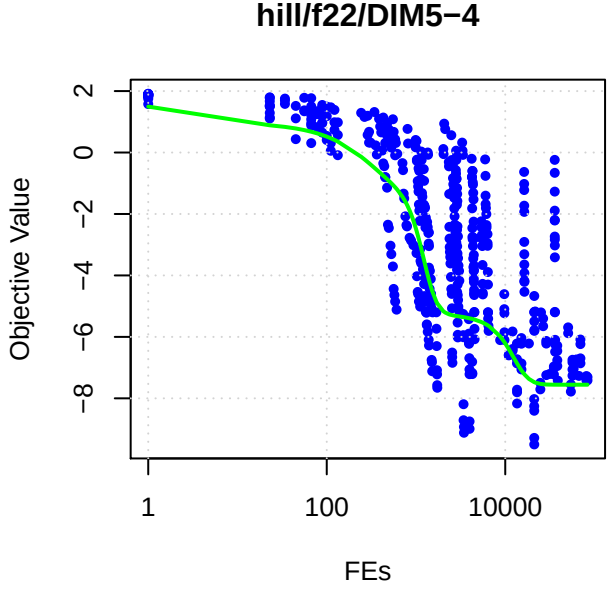
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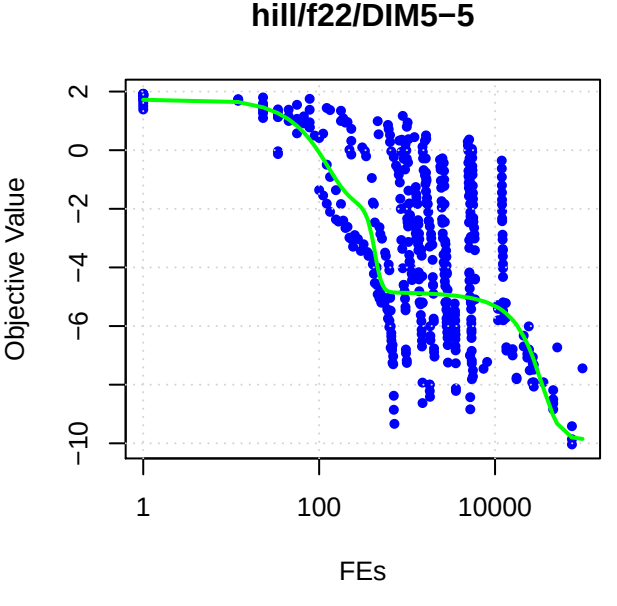
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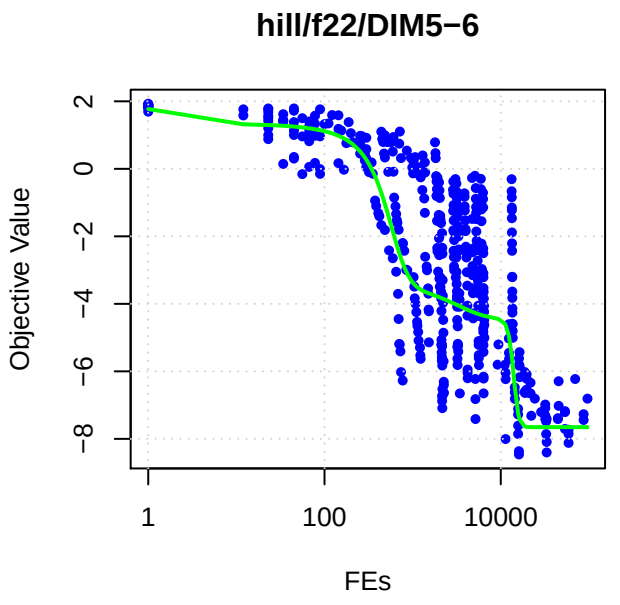
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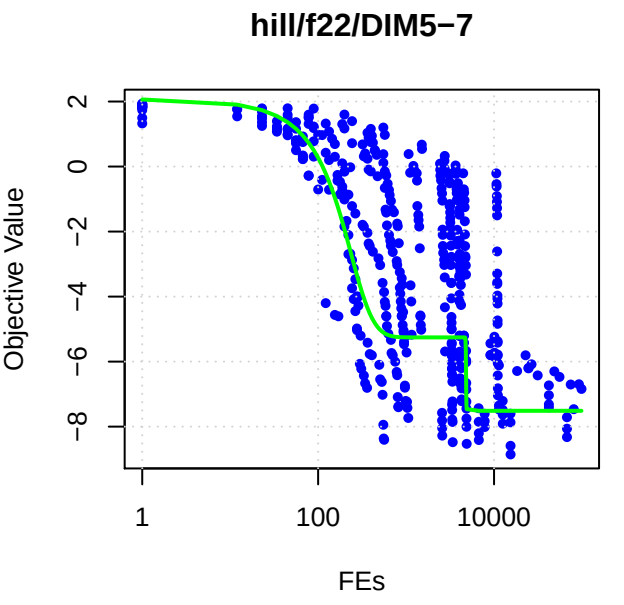
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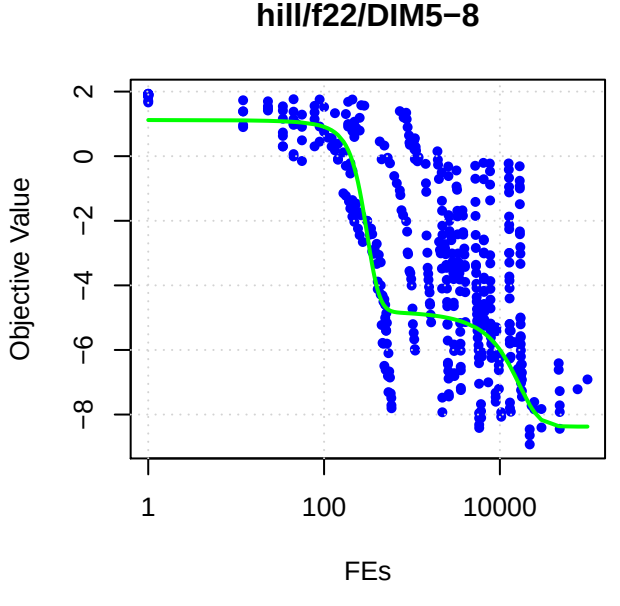
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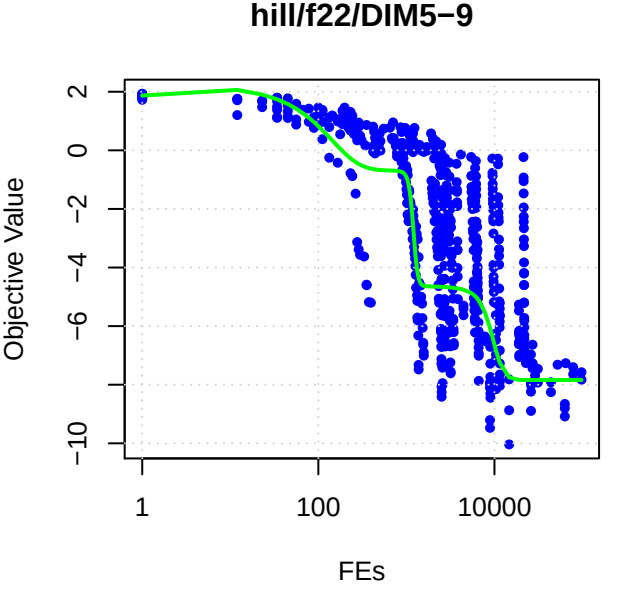
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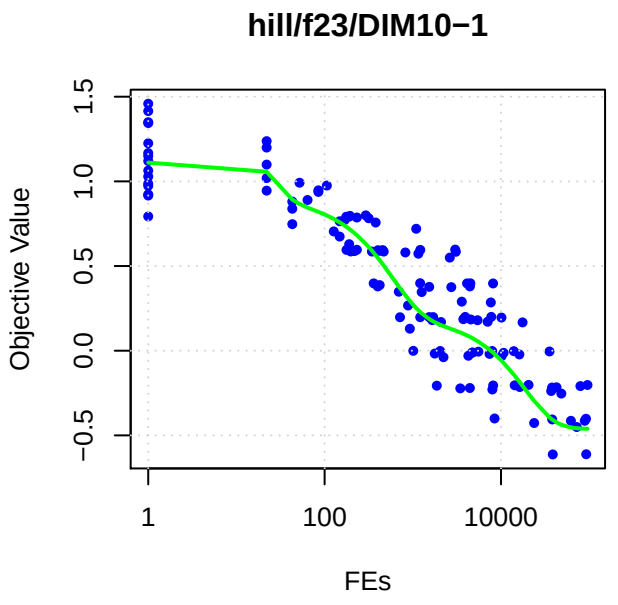
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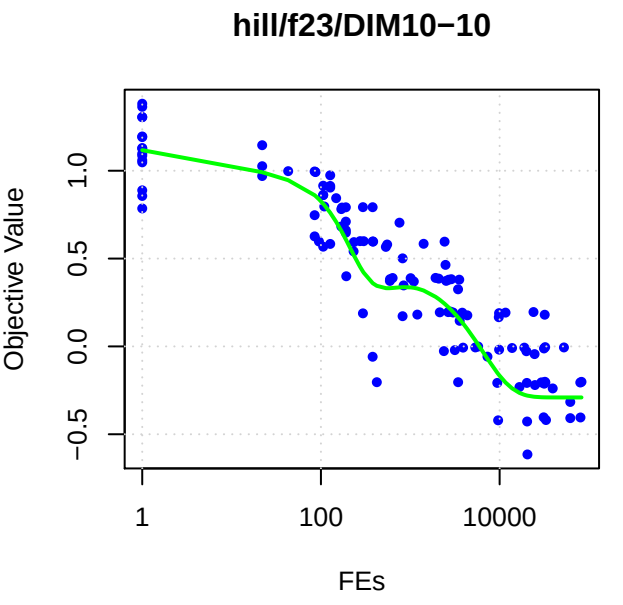
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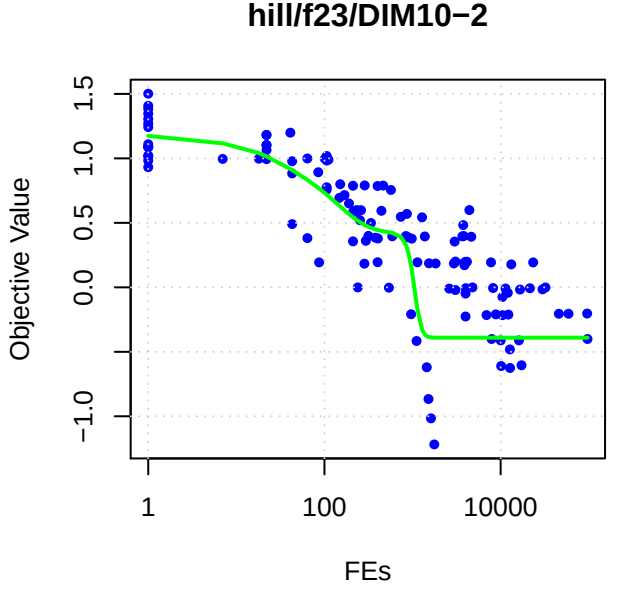
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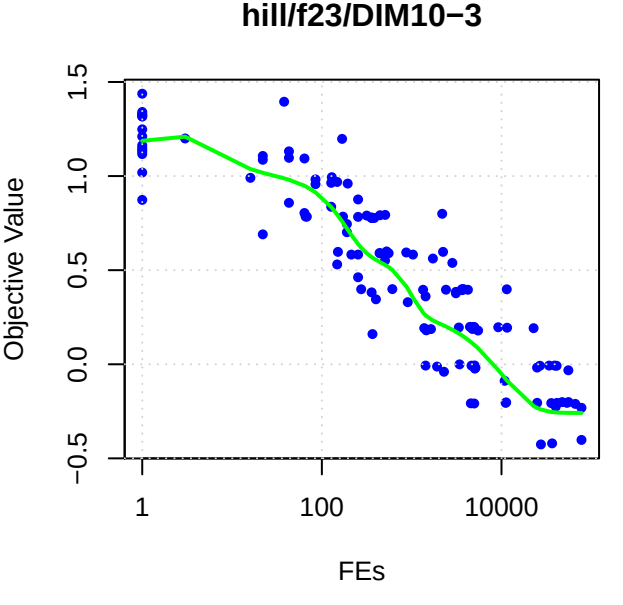
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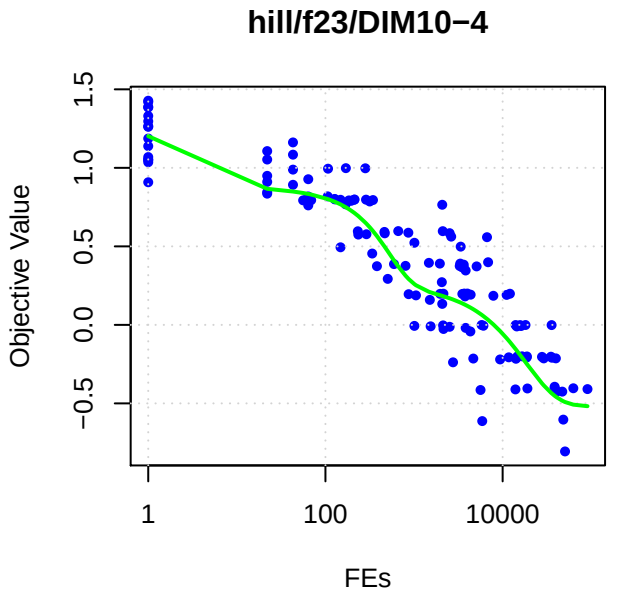
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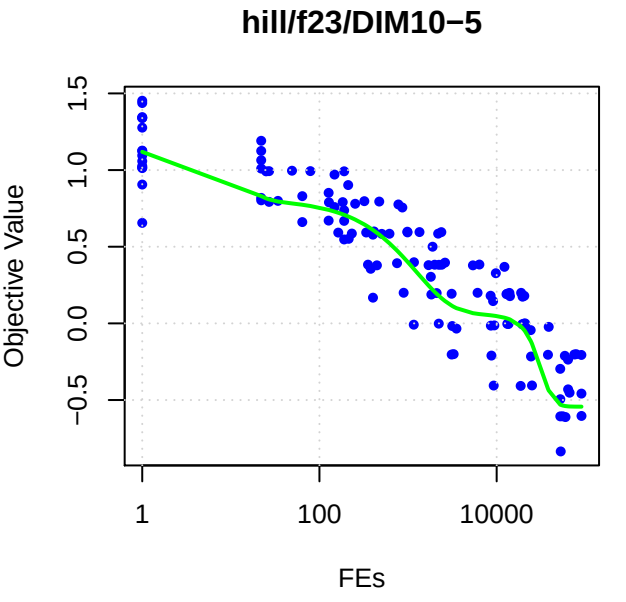
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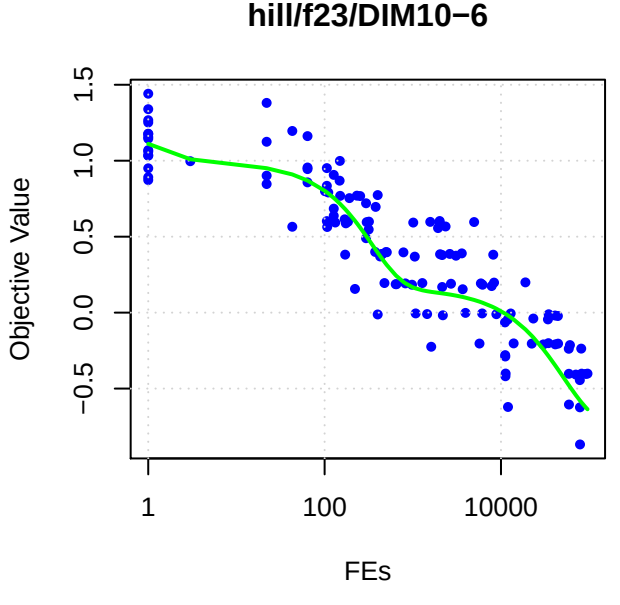
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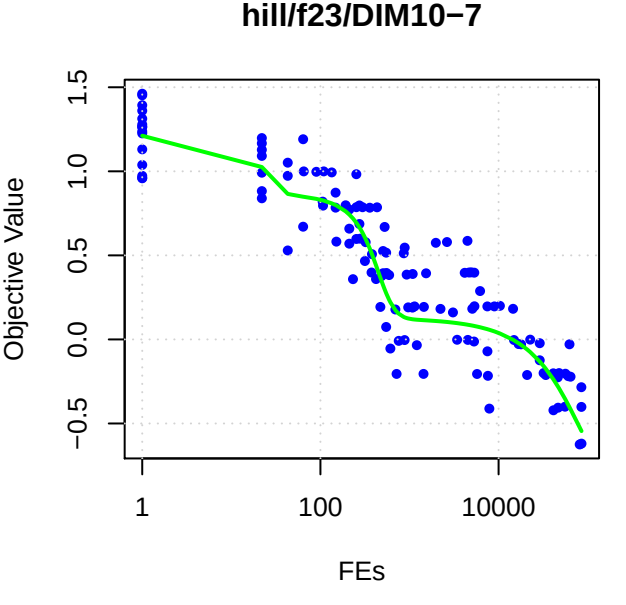
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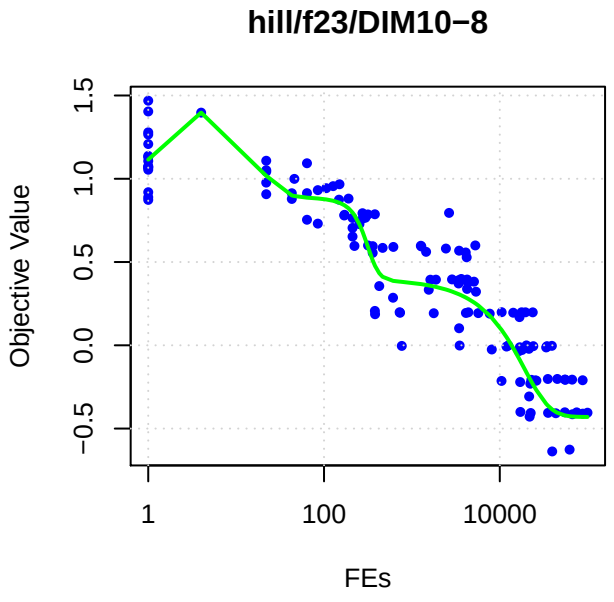
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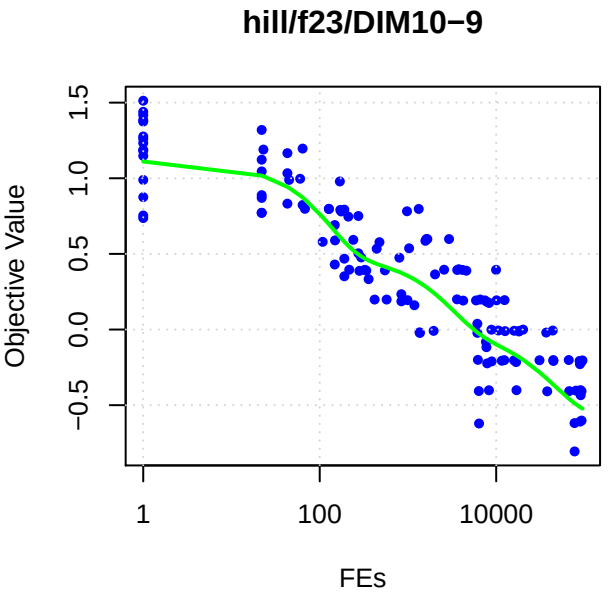
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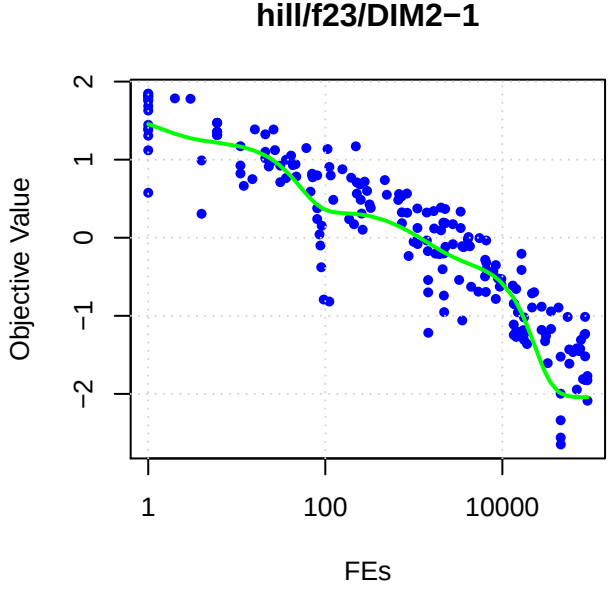
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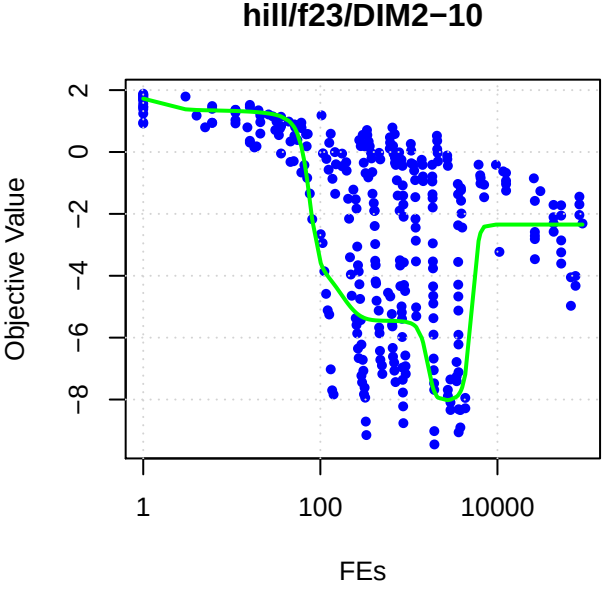
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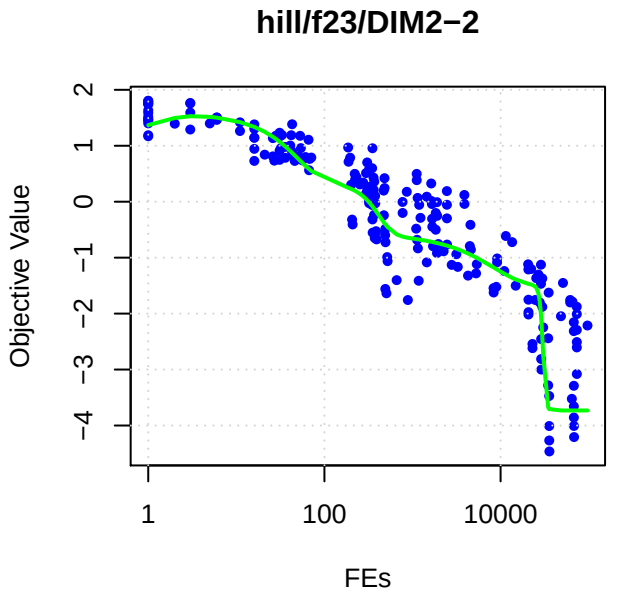
hill/f23/DIM2−2
Objective Value
FEs
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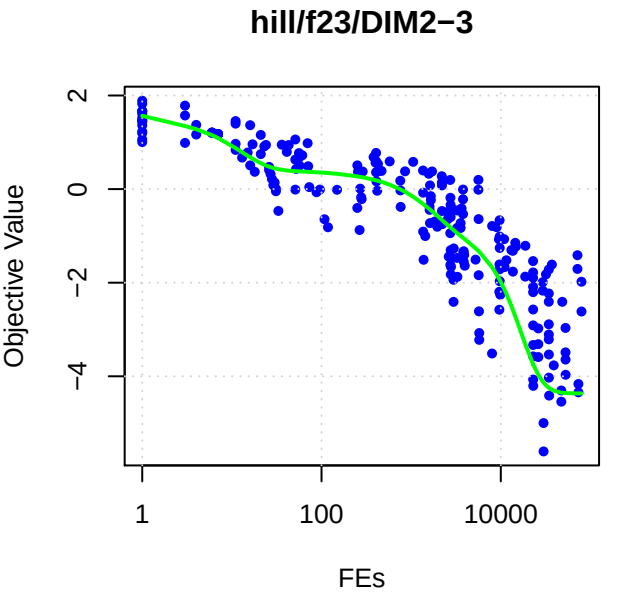
100
10000
2
1
0
−1
−2
−3
−4


hill/f23/DIM2−3
Objective Value
FEs
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10000
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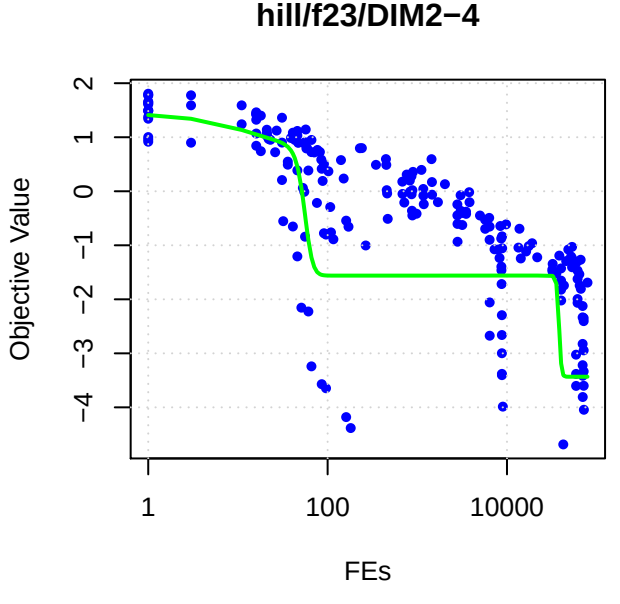
0
−2
−4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Objective Value
FEs
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100
10000
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1
0
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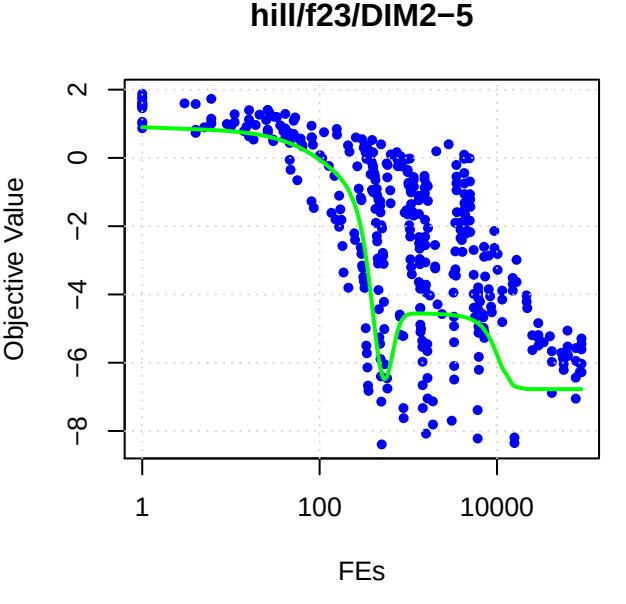
−2
−3
−4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Objective Value
FEs
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10000
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0
−2
−4
−6
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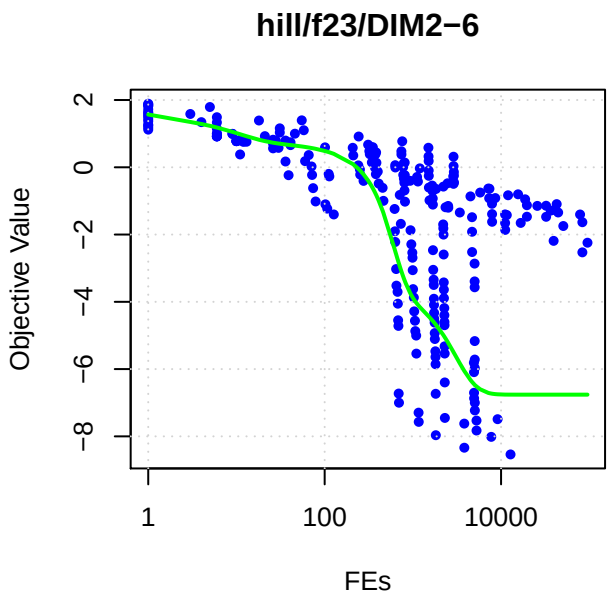
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Objective Value
FEs
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−2
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−6
−8
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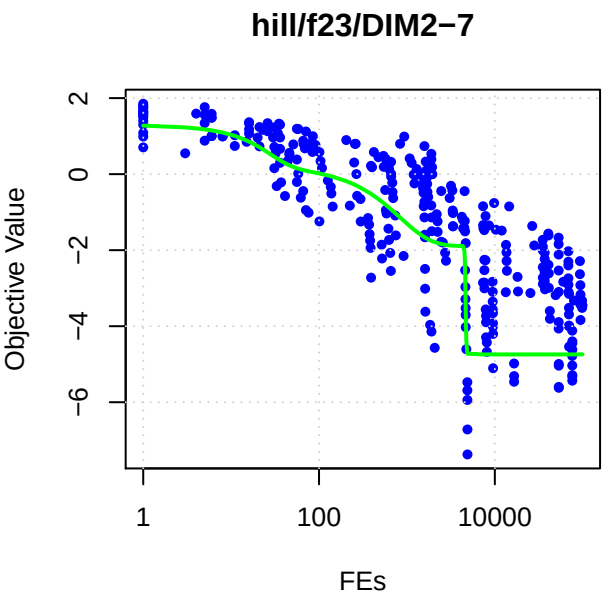
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Objective Value
FEs
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−6
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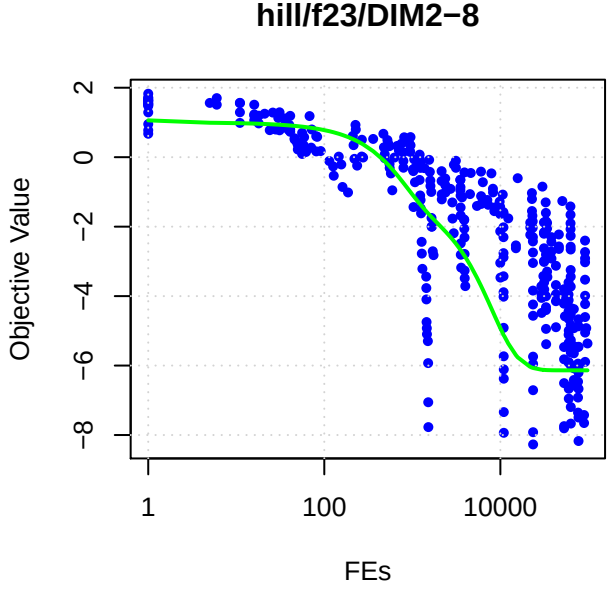
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Objective Value
FEs
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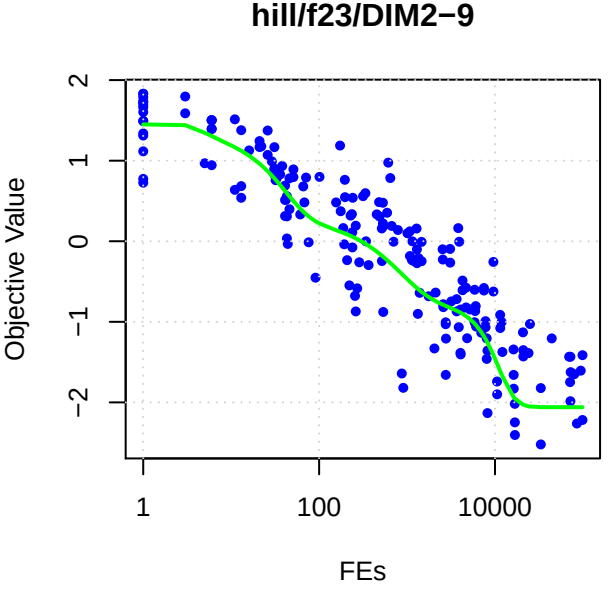
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Objective Value
FEs
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−2
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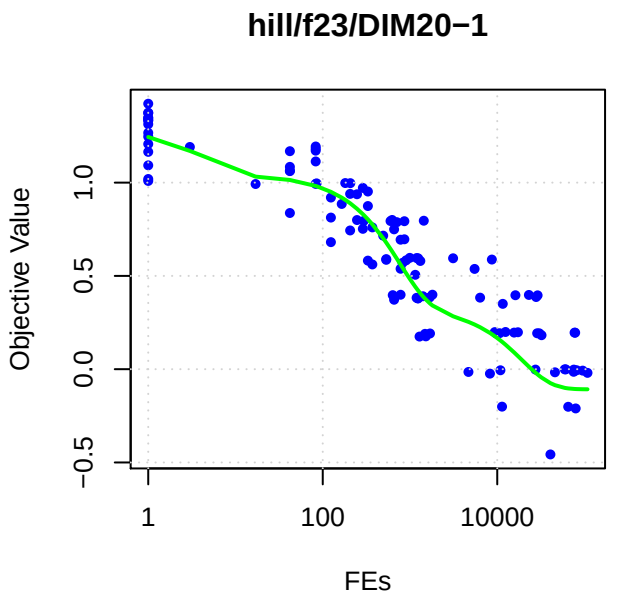
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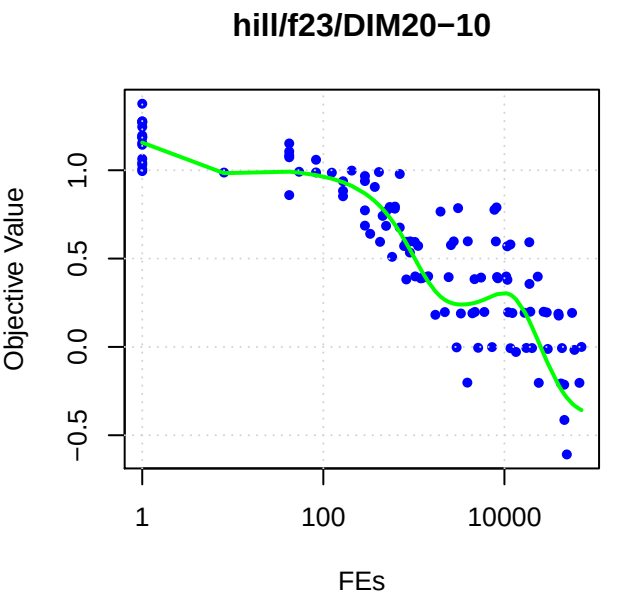
FEs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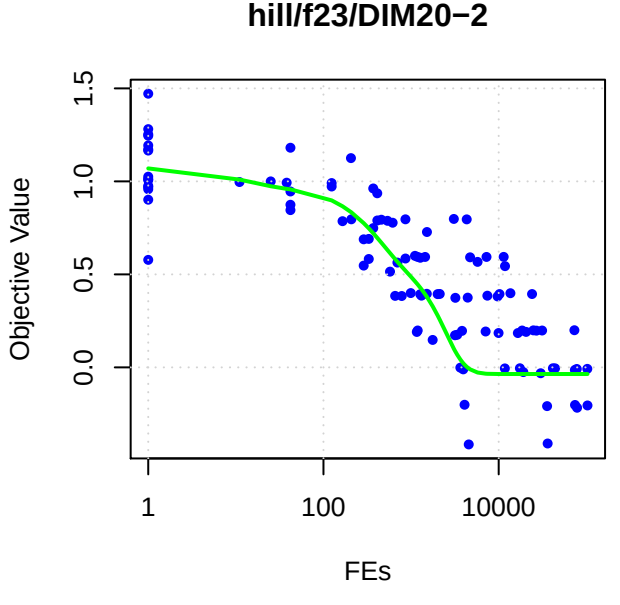
FEs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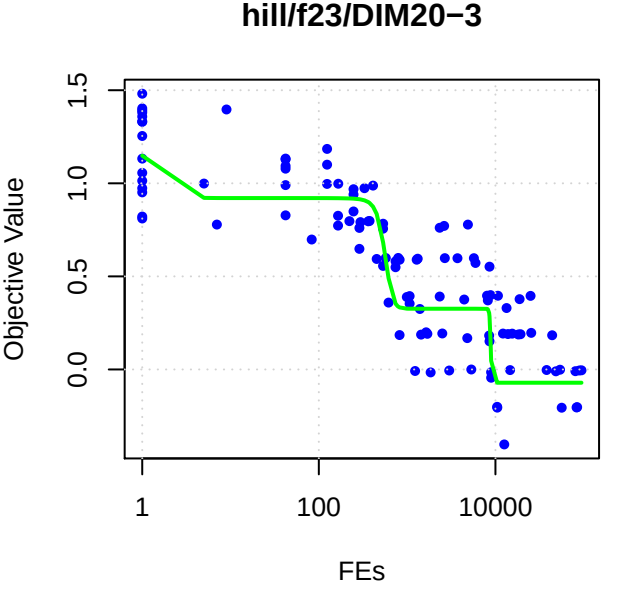
FEs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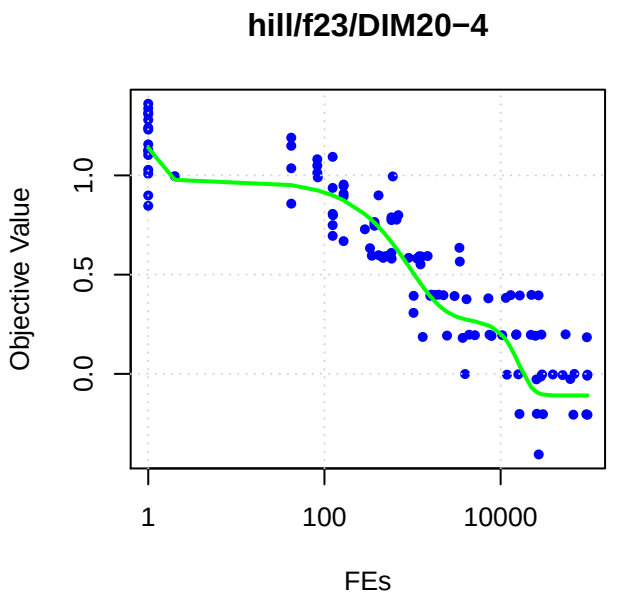
10000
FEs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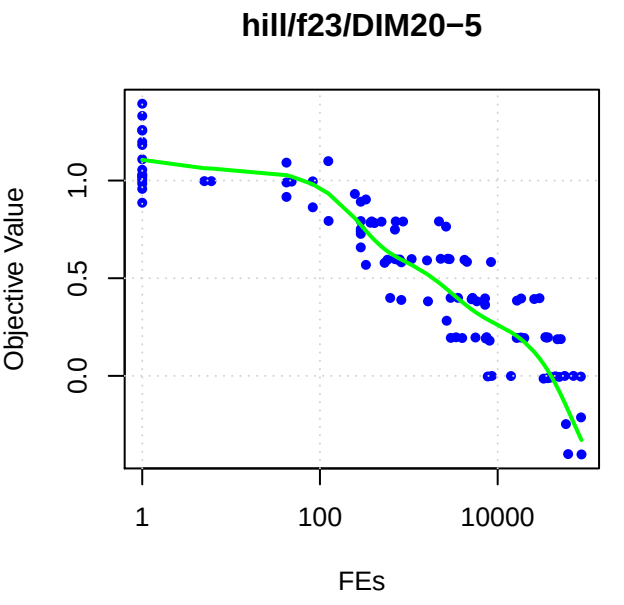
FEs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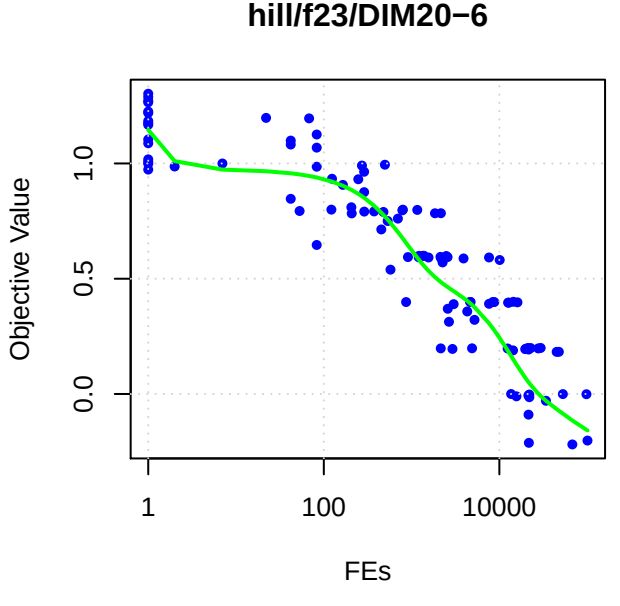
FEs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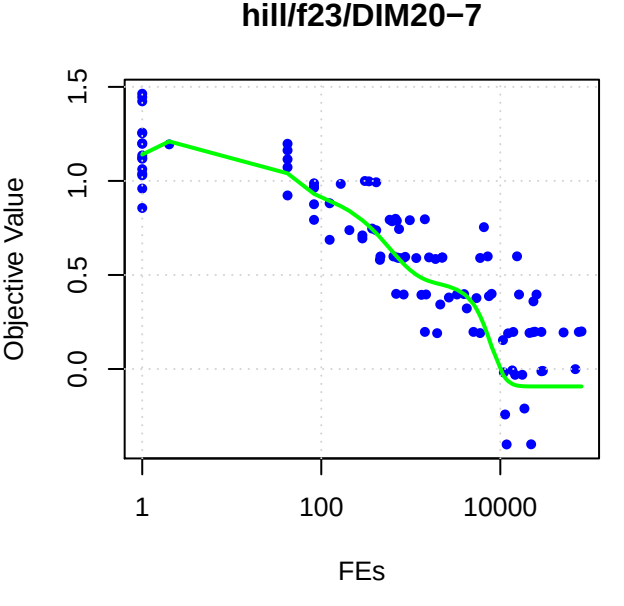
FEs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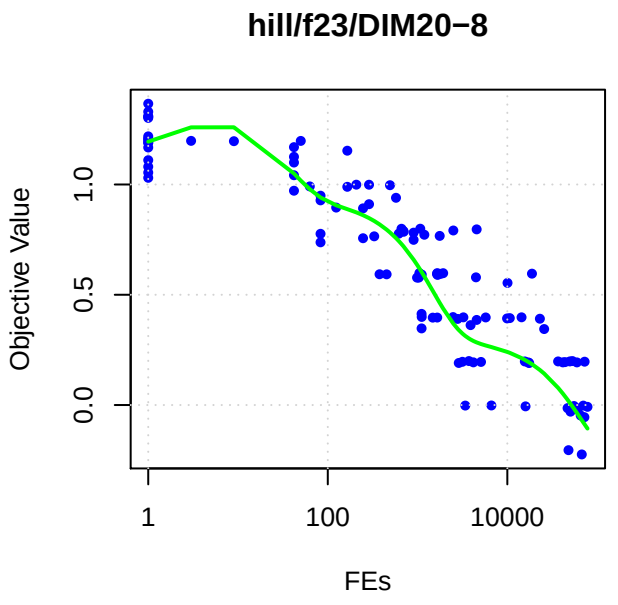
FEs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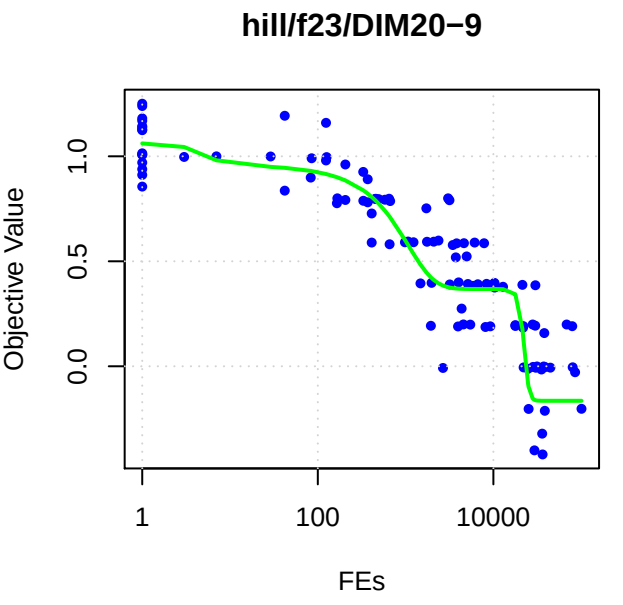
FEs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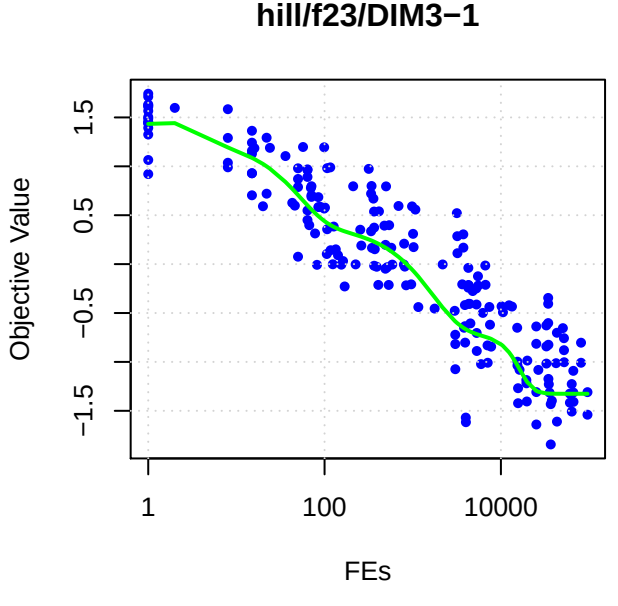
10000
FEs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1.5
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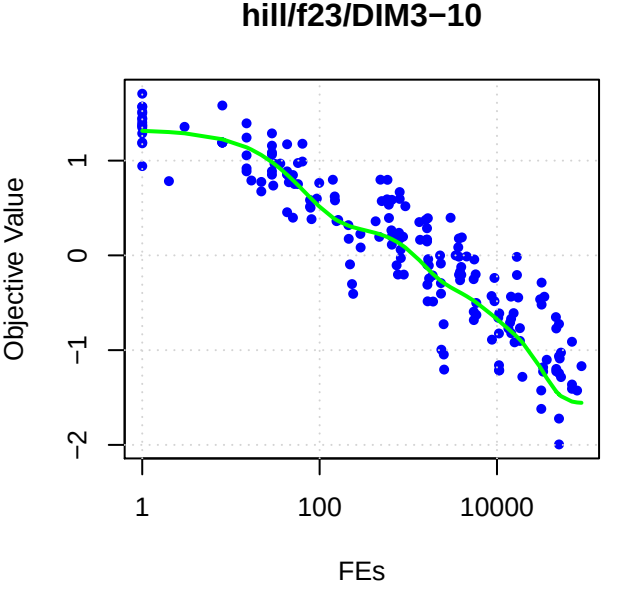
FEs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Objective Value
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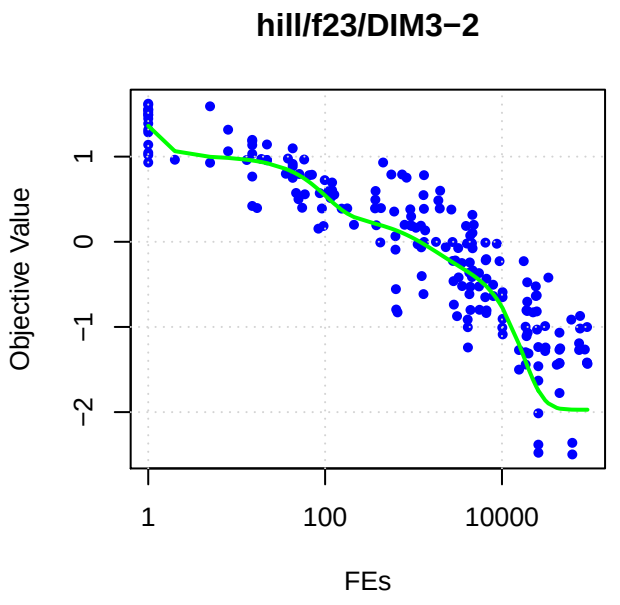
10000
FEs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Objective Value
FEs
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−2
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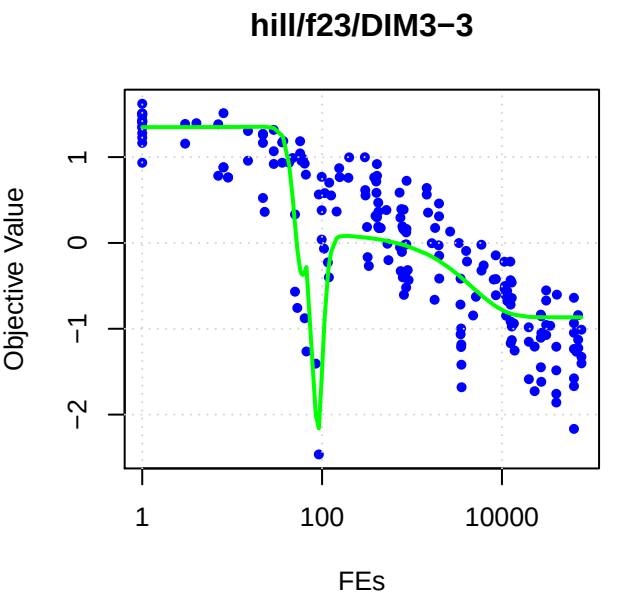
10000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Objective Value
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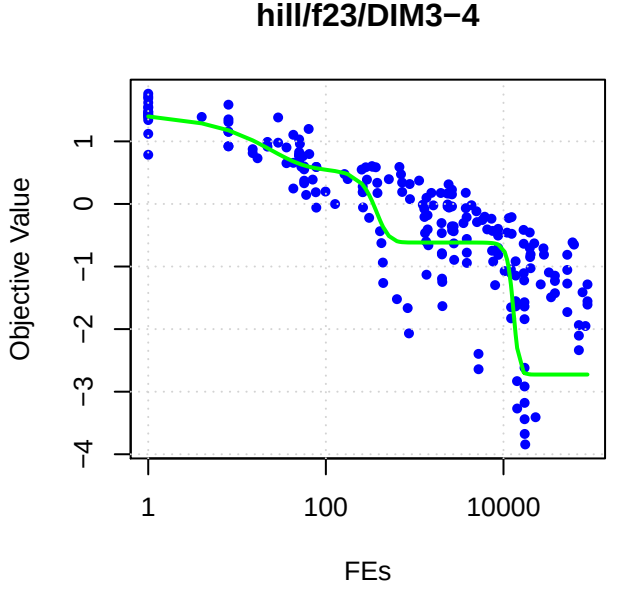
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Objective Value
FEs
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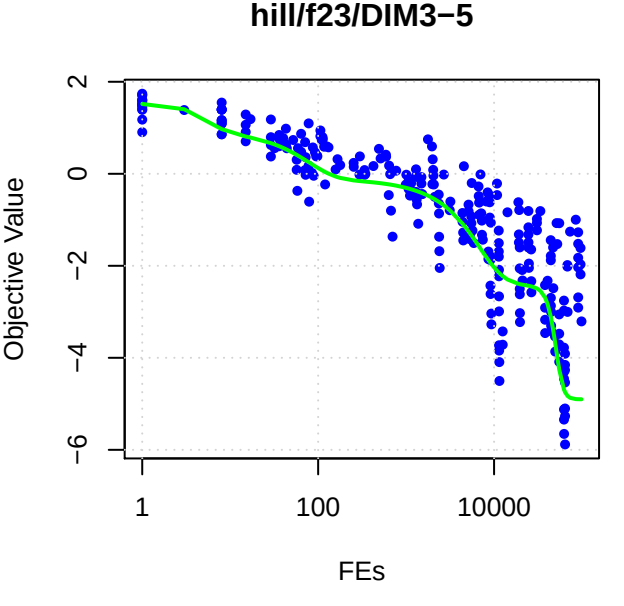
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Objective Value
FEs
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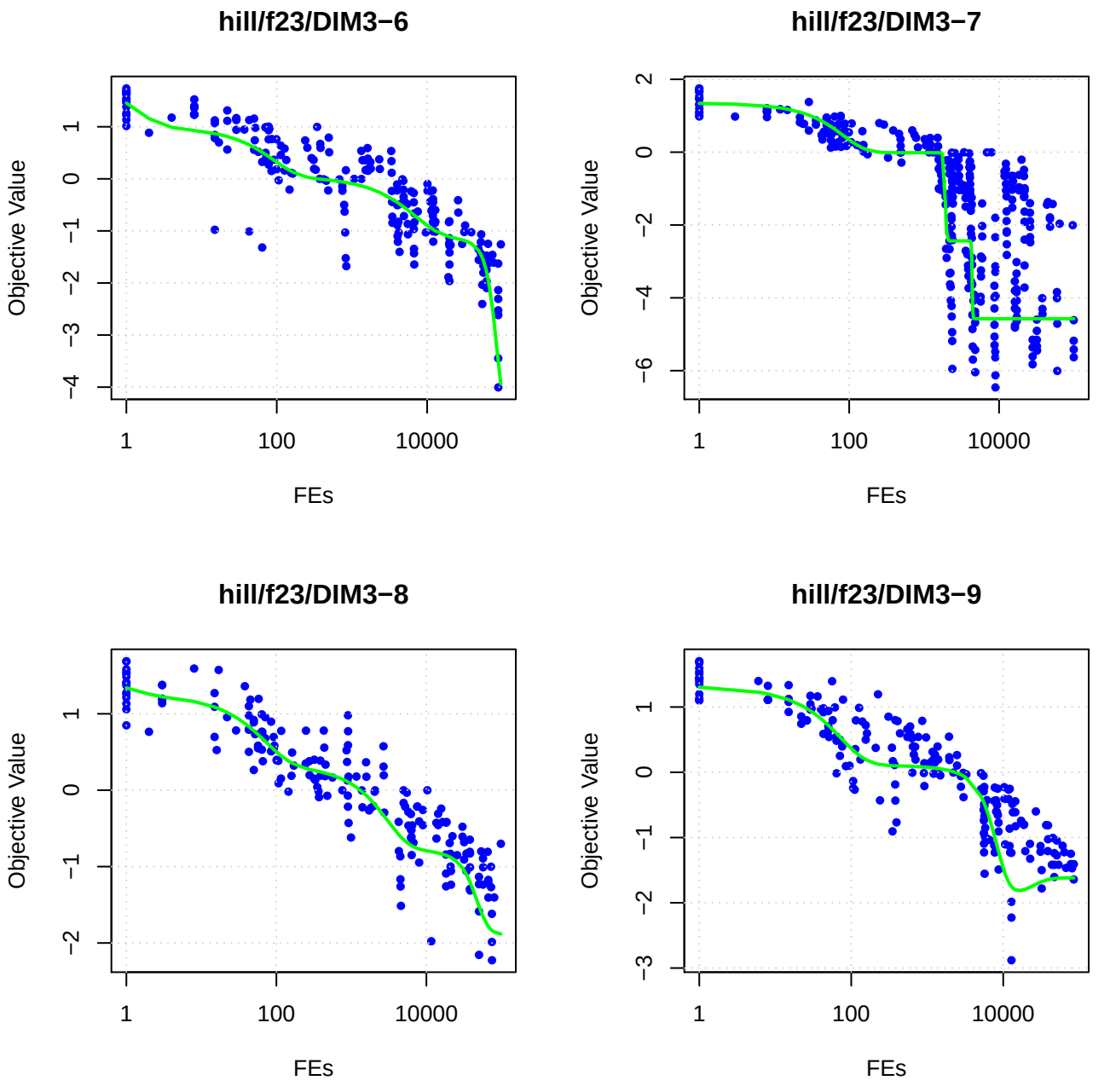
hill/f23/DIM3−6
Objective Value
FEs
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hill/f23/DIM3−7
Objective Value
FEs
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10000
2
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−2
−4
−6
hill/f23/DIM3−8
Objective Value
FEs
1
100
10000
1
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−1
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hill/f23/DIM3−9
Objective Value
FEs
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10000
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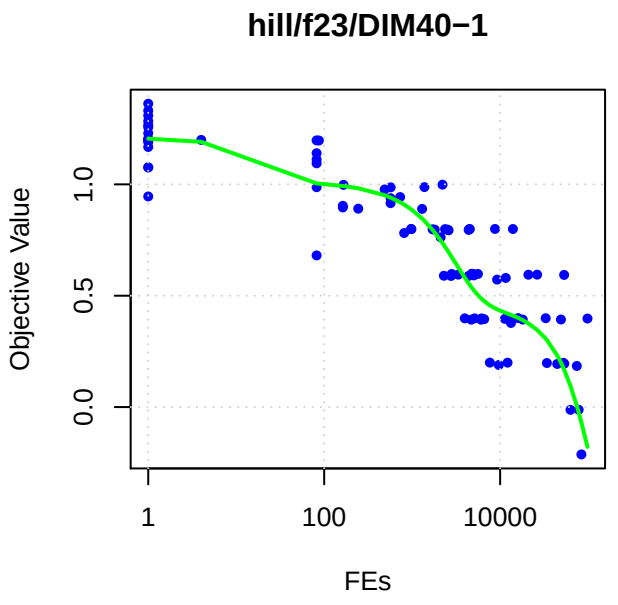
−1
−2
−3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Objective Value
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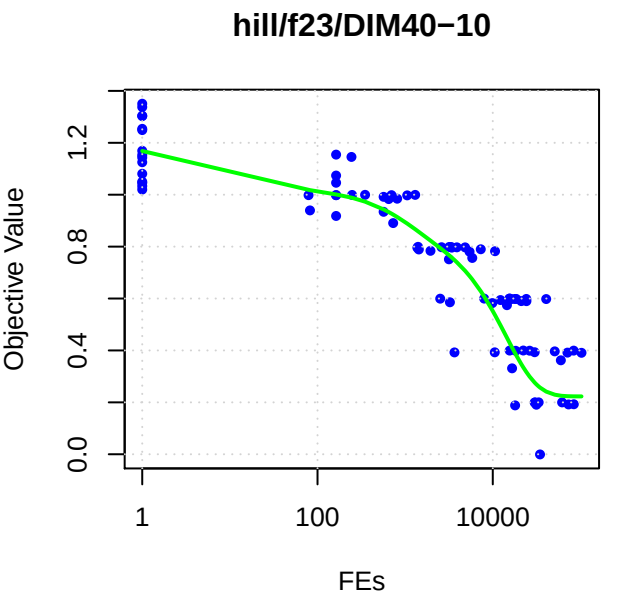
10000
FEs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Objective Value
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0.8
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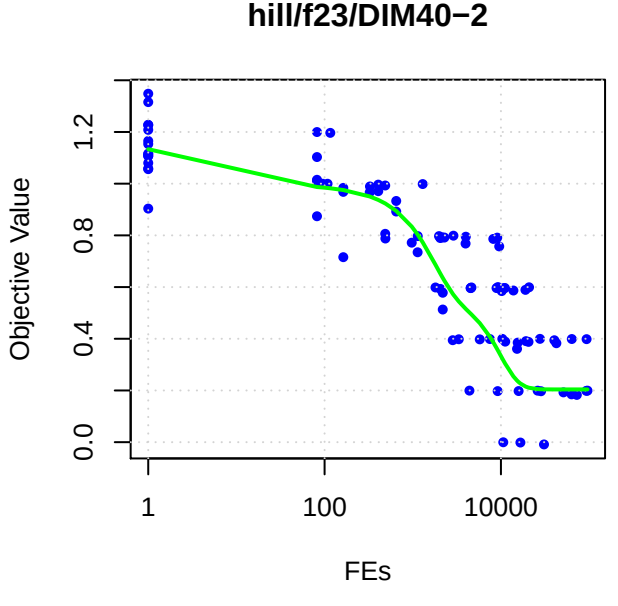
100
10000
FEs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0.8
1.2
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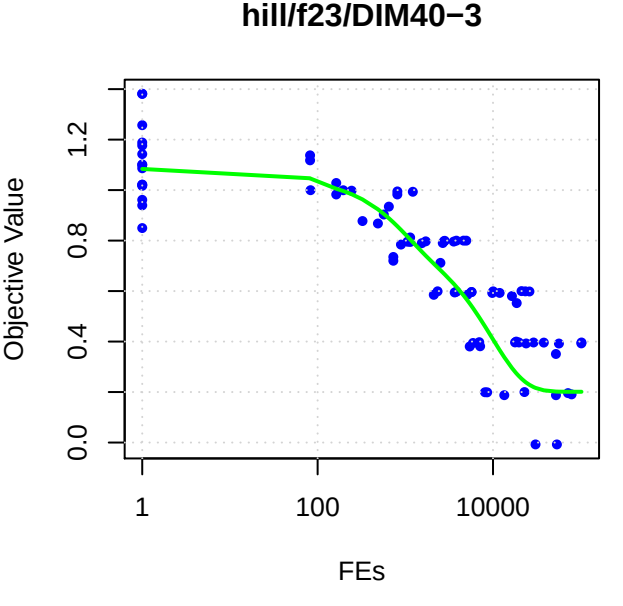
10000
FEs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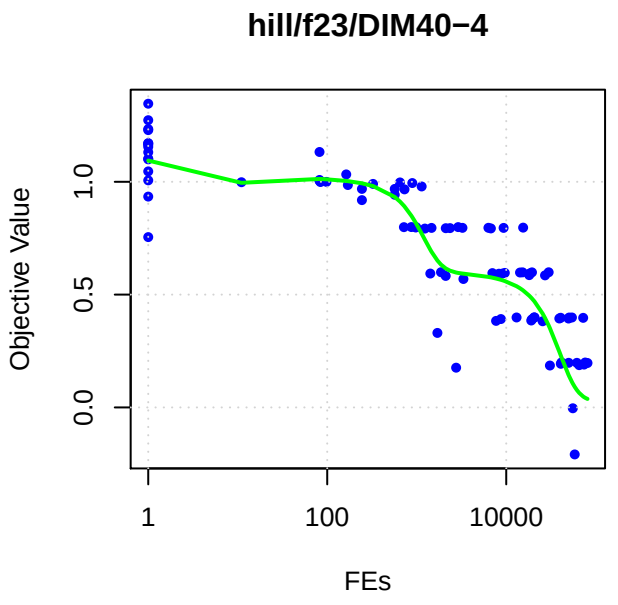
10000
FEs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Objective Value
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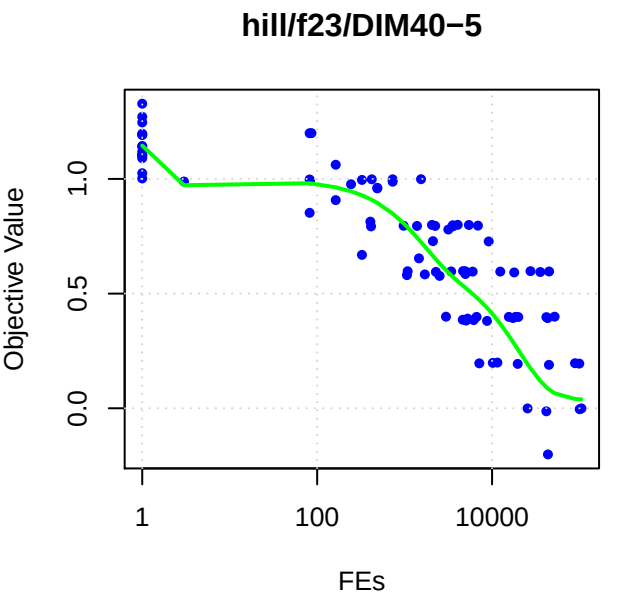
FEs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Objective Value
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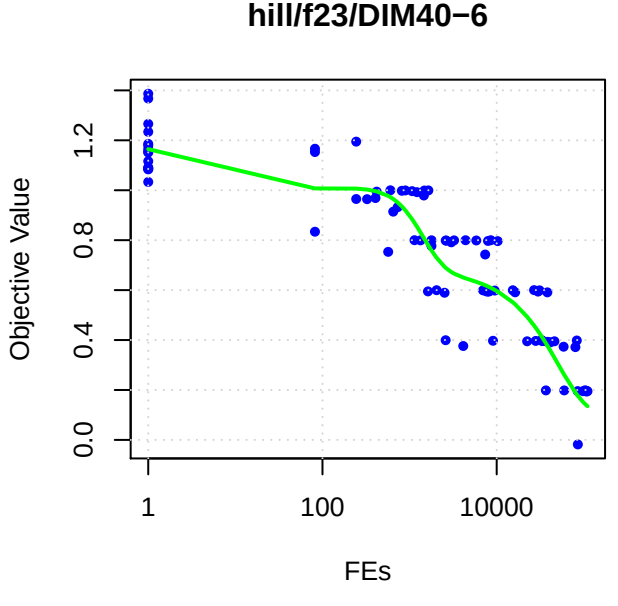
FEs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Objective Value
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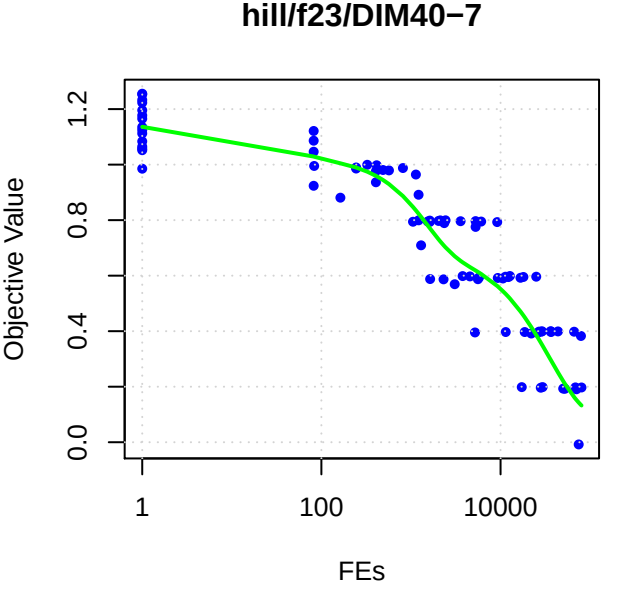
10000
FEs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Objective Value
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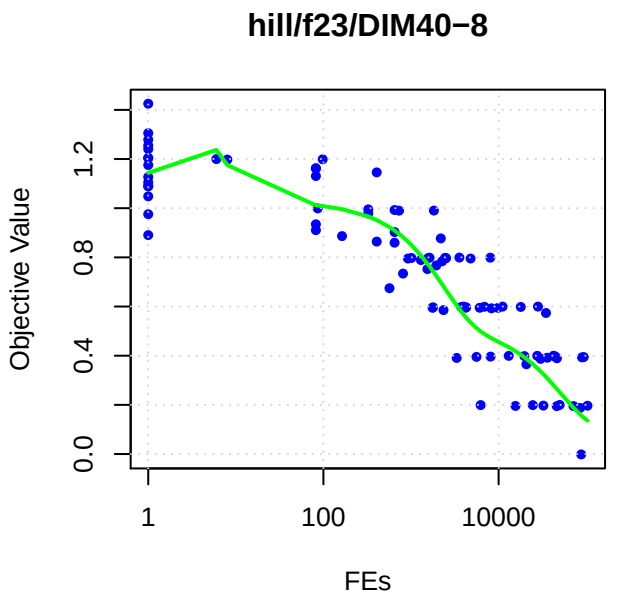
FEs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Objective Value
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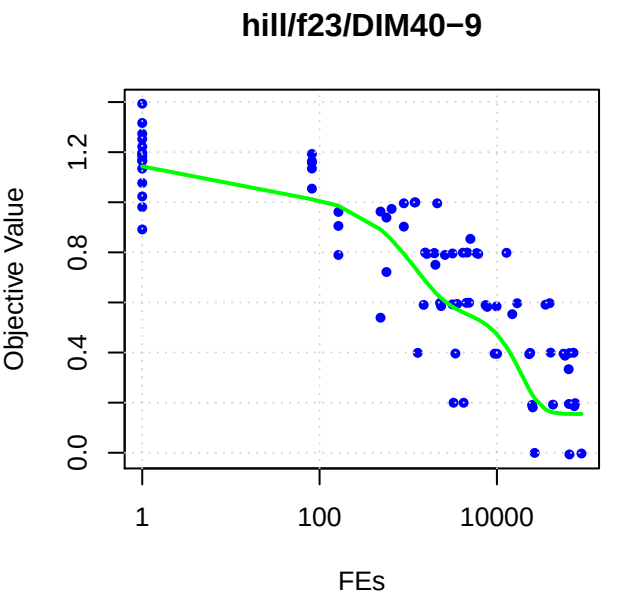
FEs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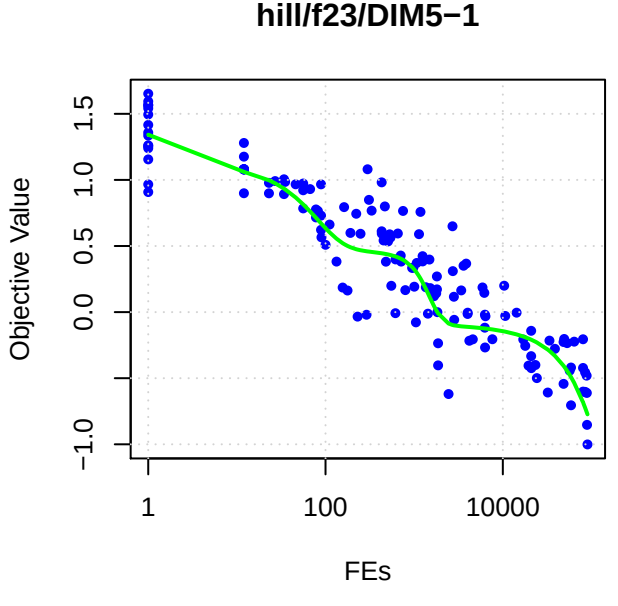
FEs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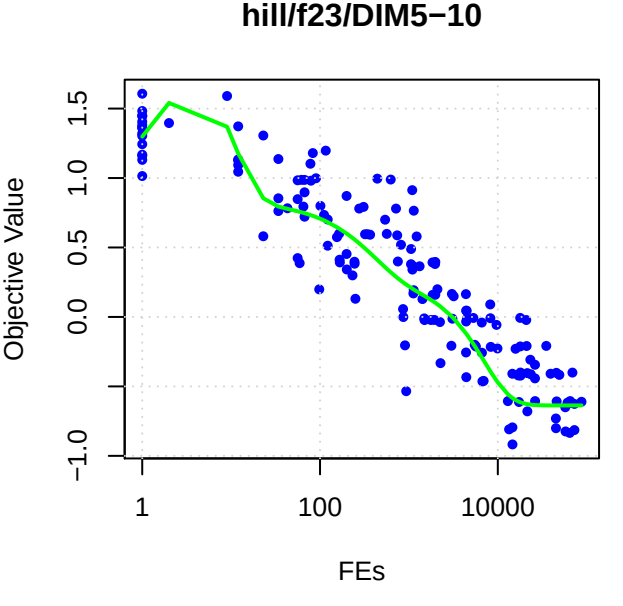
FEs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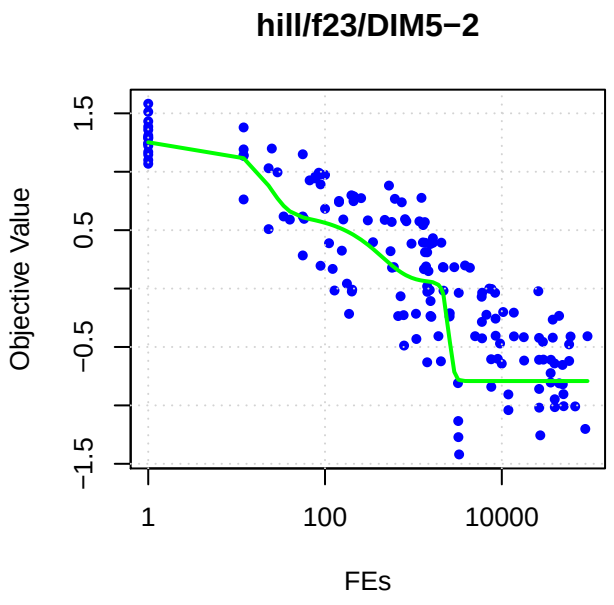
FEs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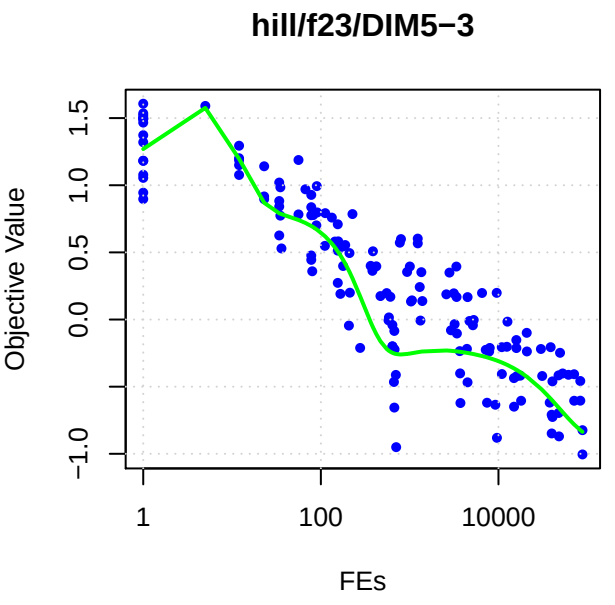
FEs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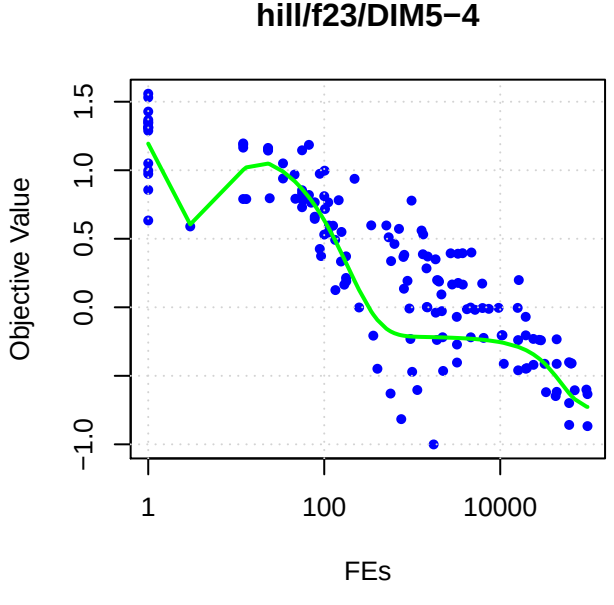
FEs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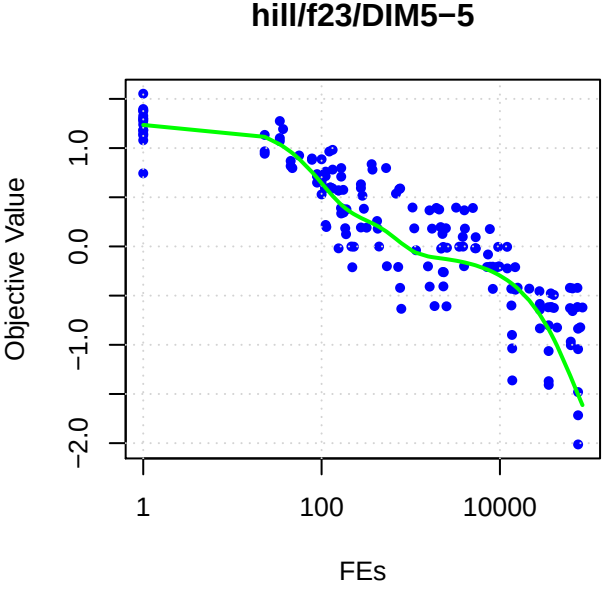
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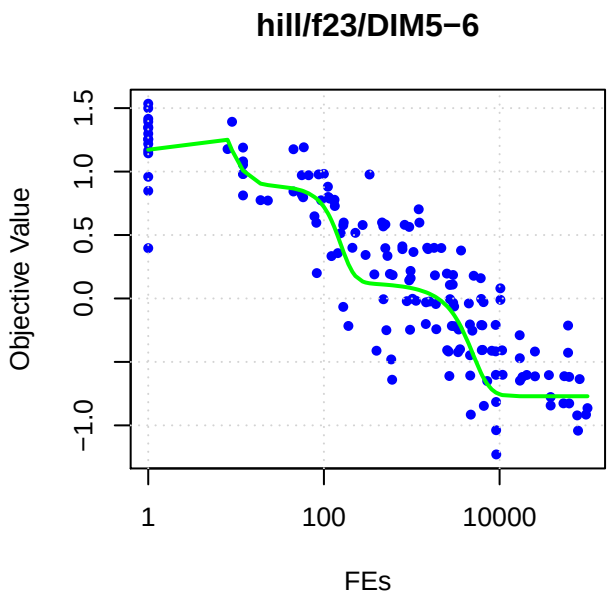
FEs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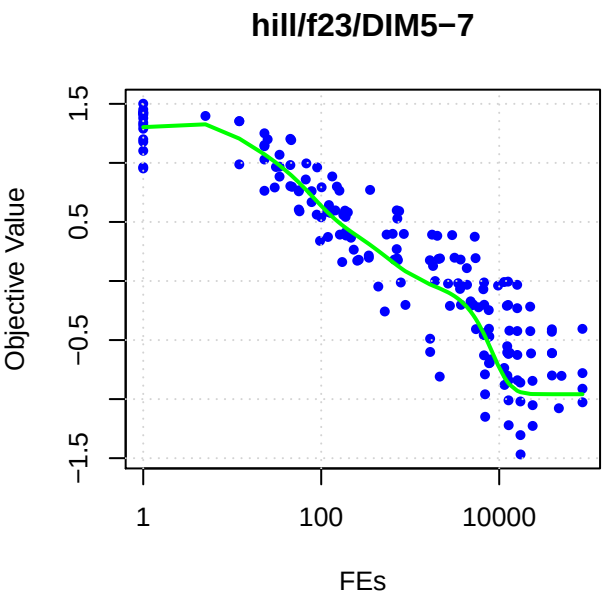
hill/f23/DIM5−7
Objective Value
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−0.5
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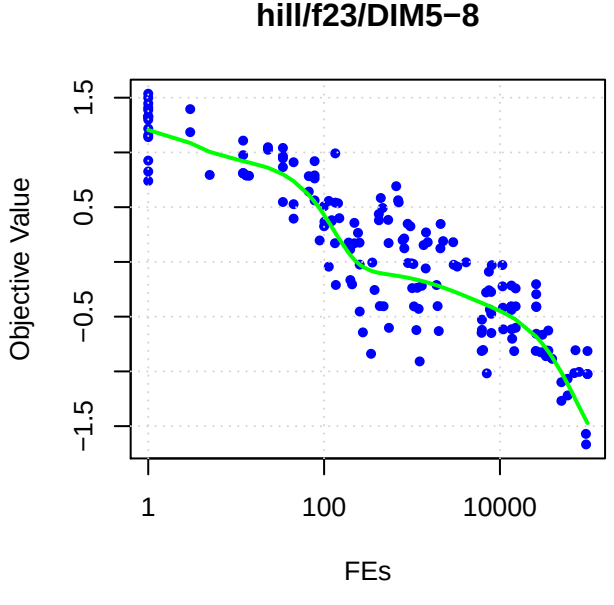
1
100
10000
FEs


hill/f23/DIM5−8
Objective Value
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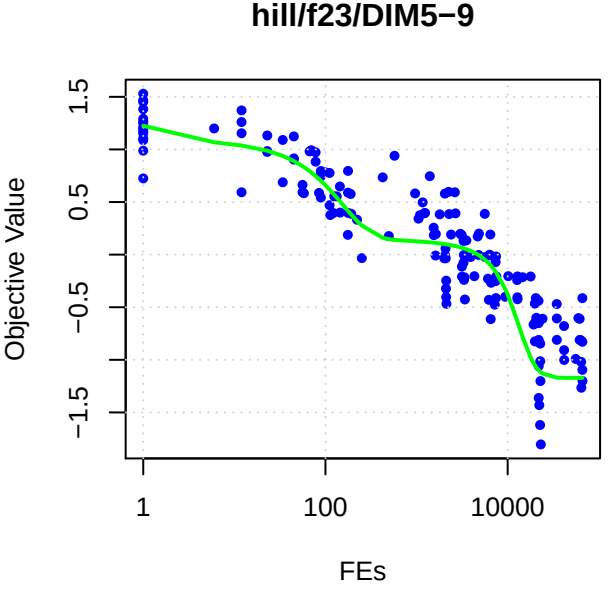
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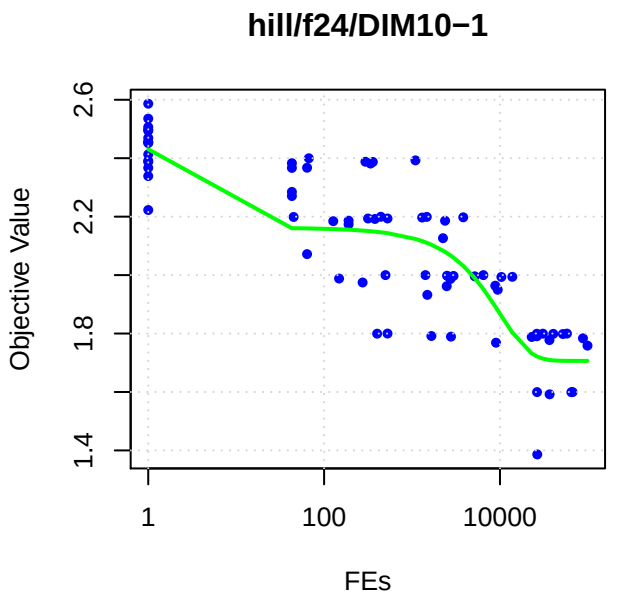
hill/f24/DIM10−1
Objective Value
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2.2
1.8
1.4
1
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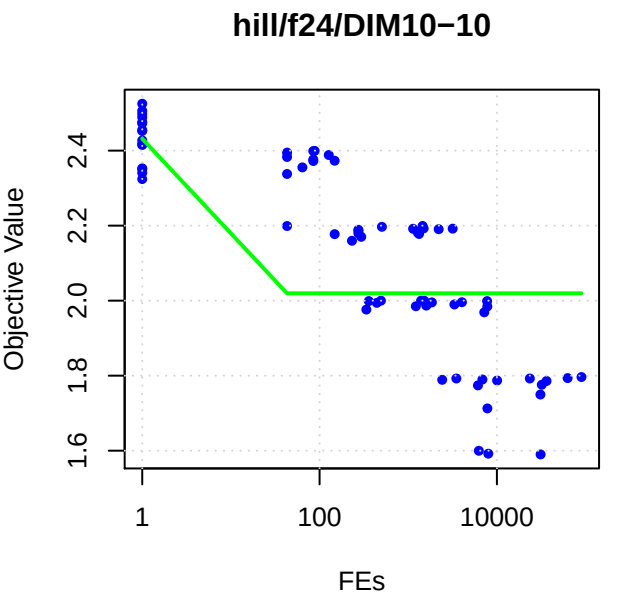
10000
FEs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2.0
1.8
1.6
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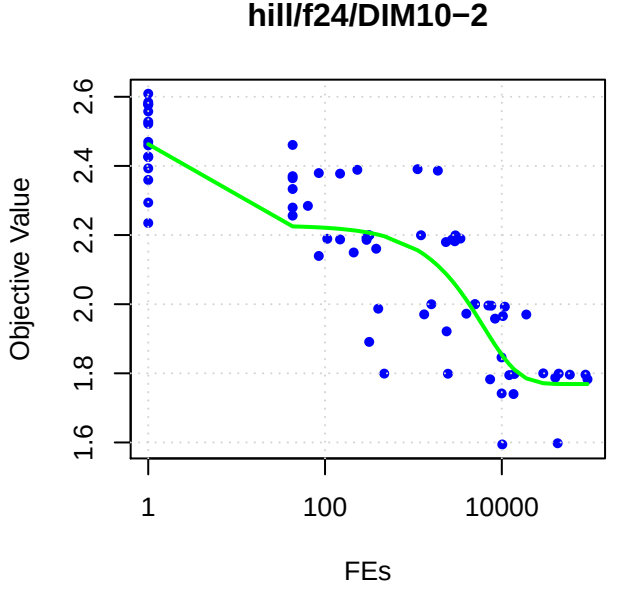
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Objective Value
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2.2
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1.8
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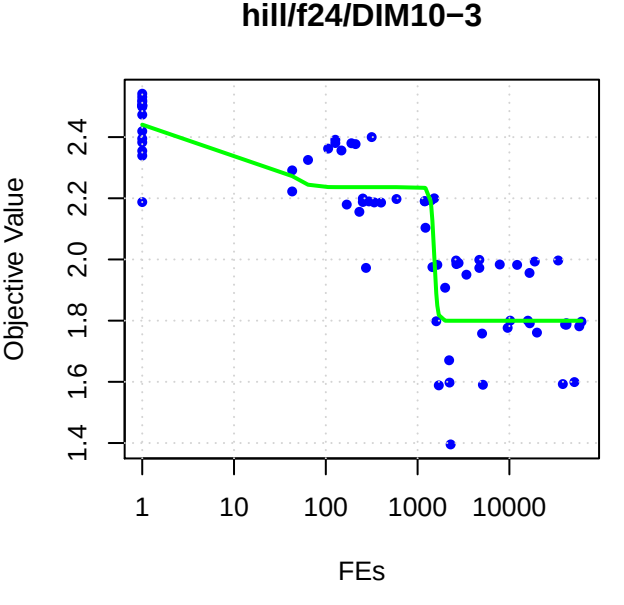
FEs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1.6
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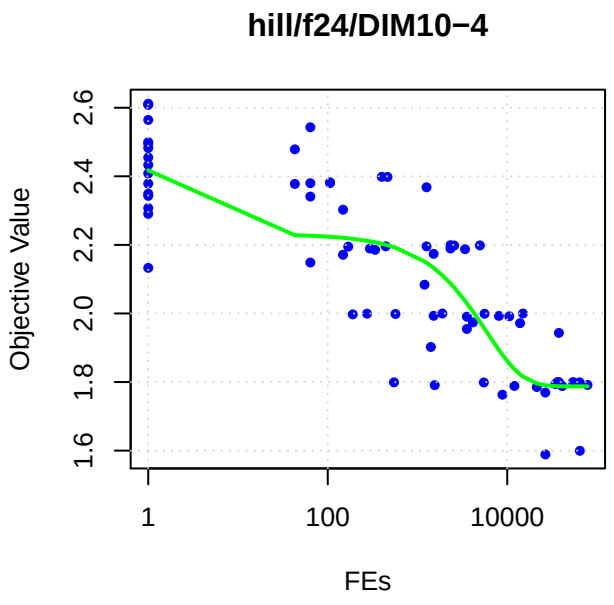
FEs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Objective Value
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2.4
2.6
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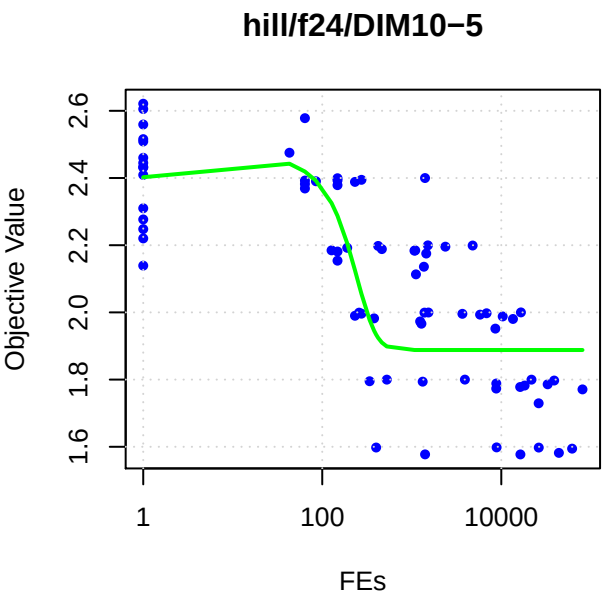
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Objective Value
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2.4
2.6
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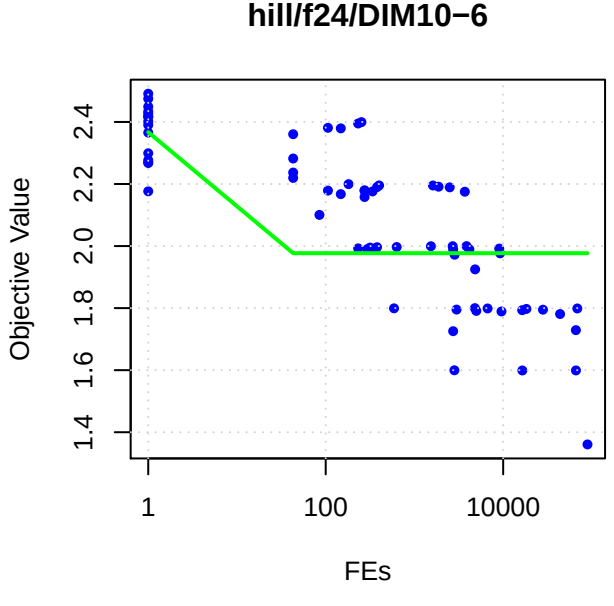
FEs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Objective Value
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1.8
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2.2
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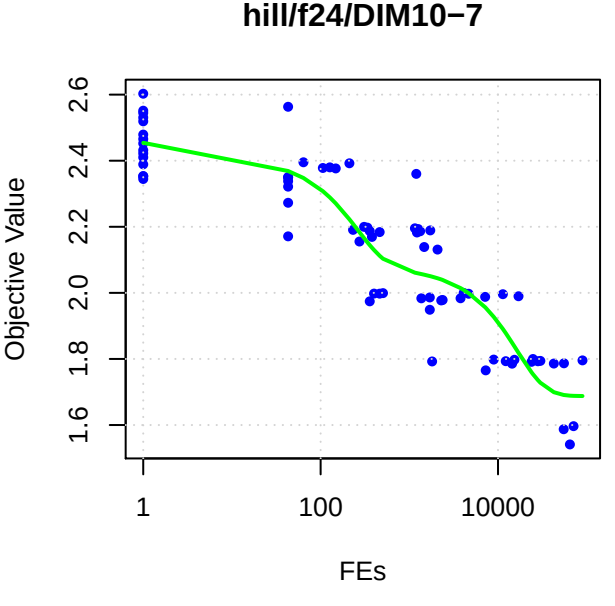
FEs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Objective Value
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2.4
2.6
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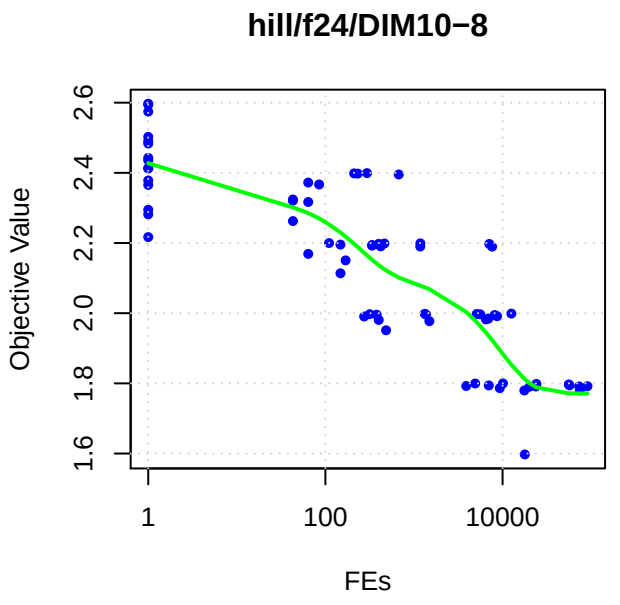
FEs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Objective Value
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2.4
2.6
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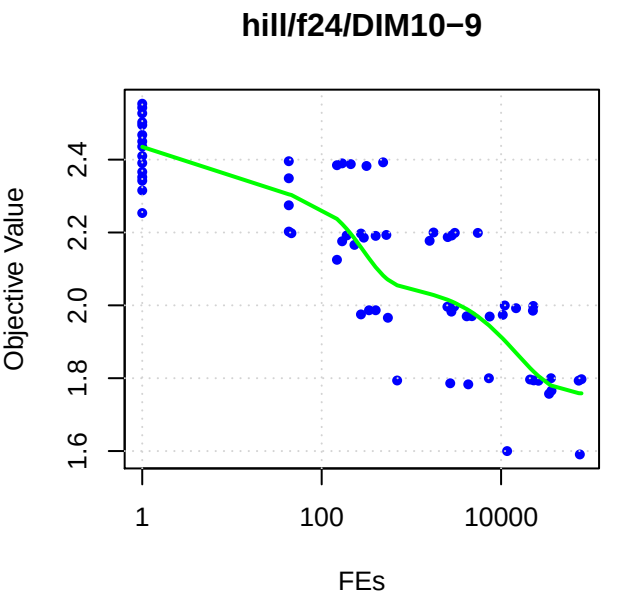
10000
FEs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Objective Value
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2.2
2.4
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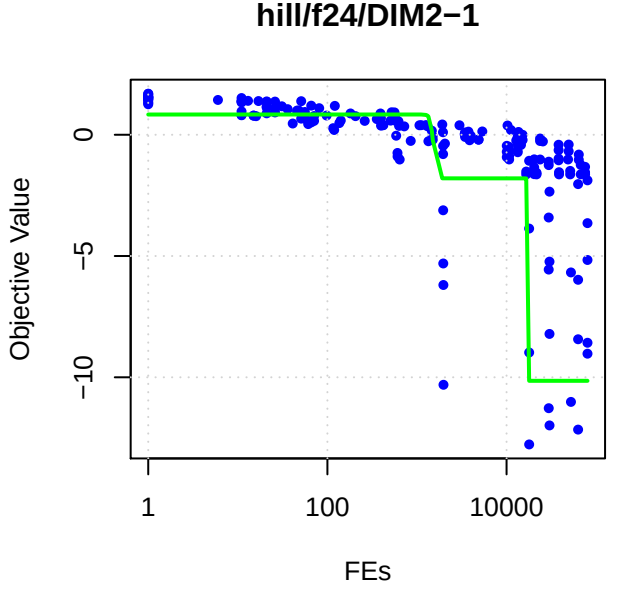
100
10000
FEs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Objective Value
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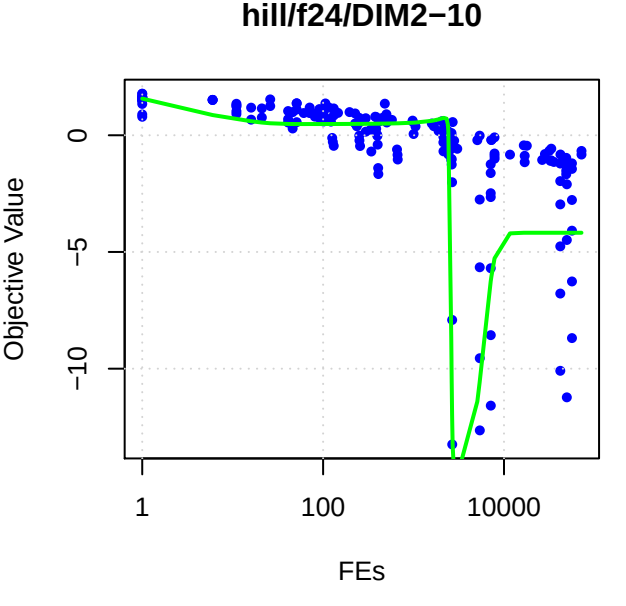
FEs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Objective Value
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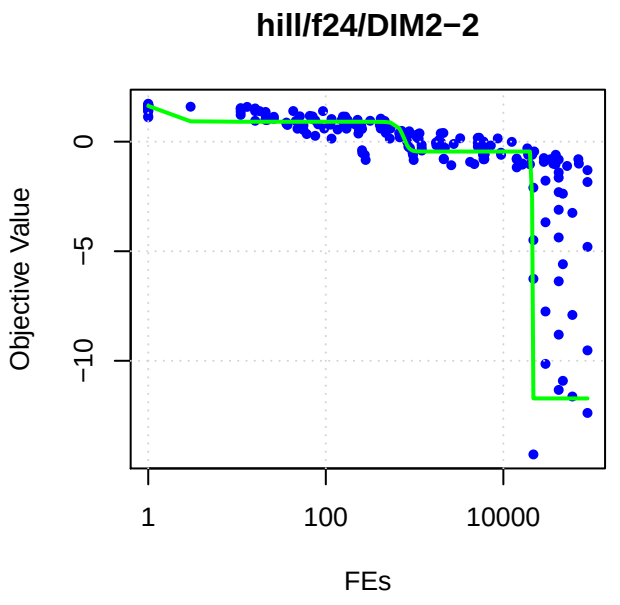
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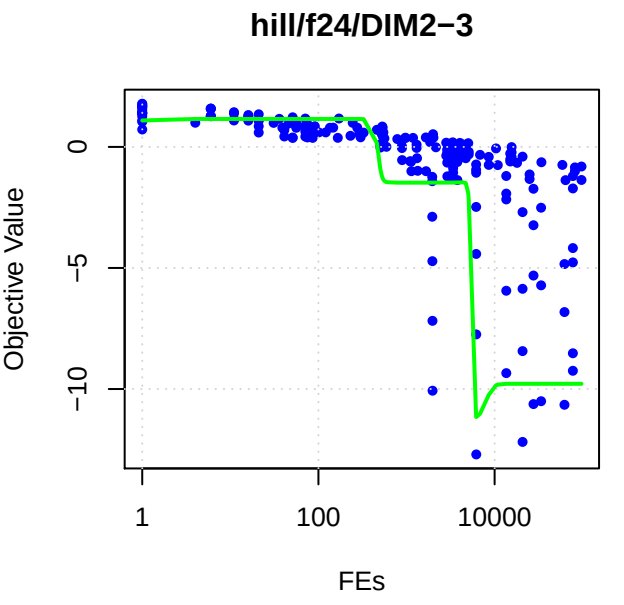
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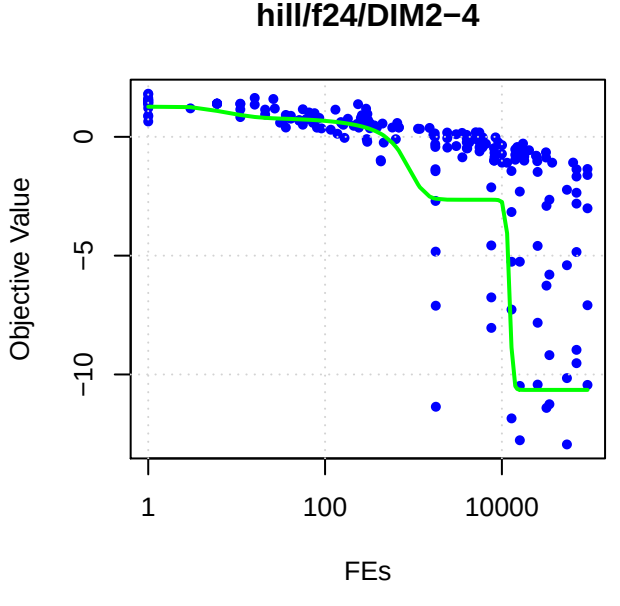
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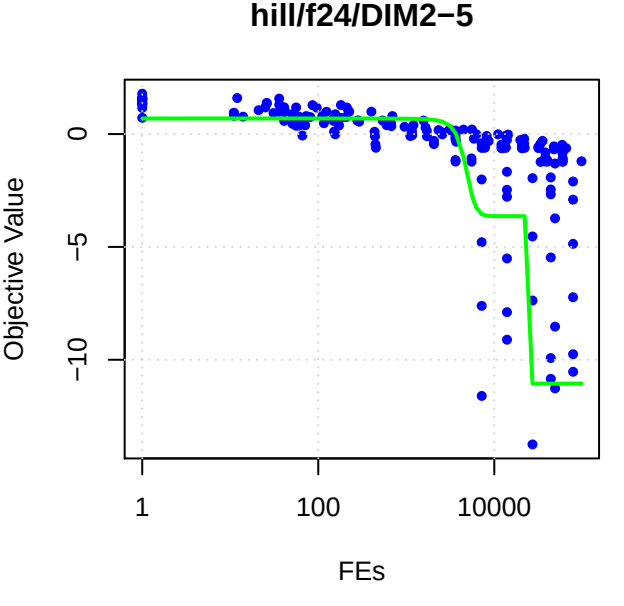
FEs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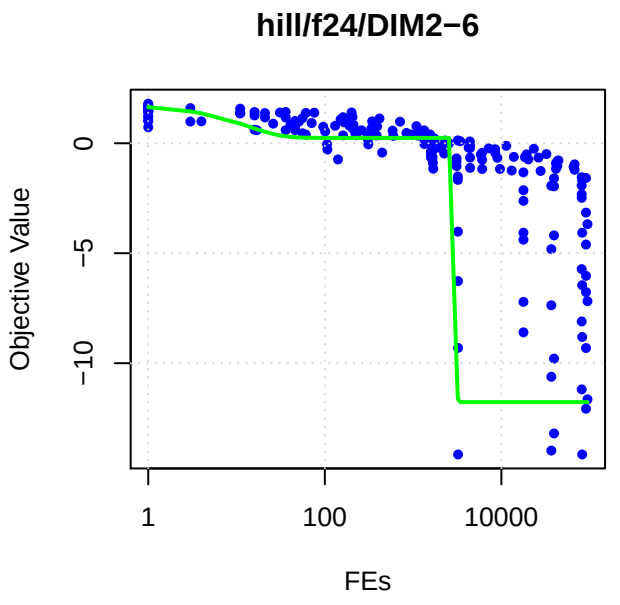
FEs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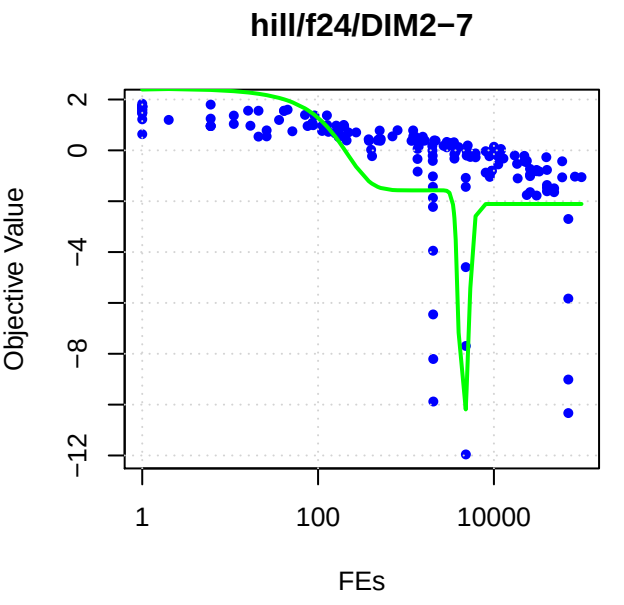
FEs


hill/f24/DIM2−7
Objective Value
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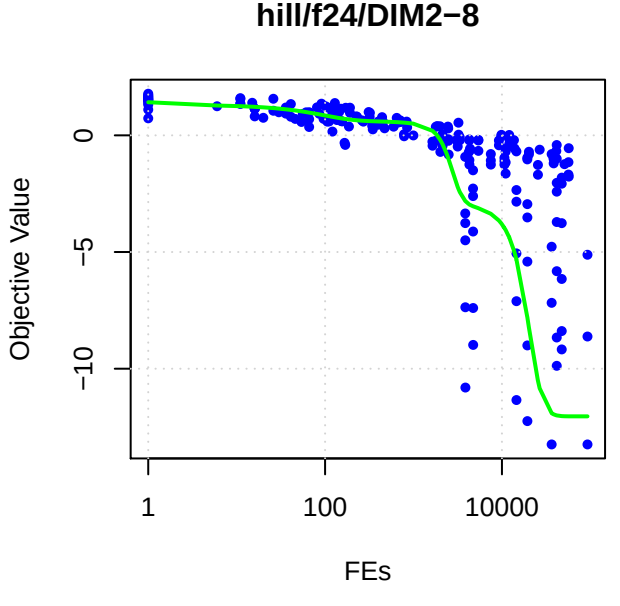
FEs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Objective Value
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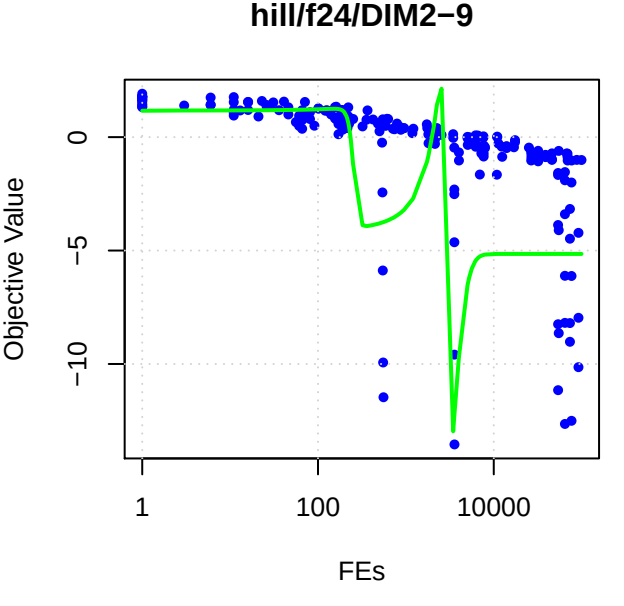
FEs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Objective Value
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−10
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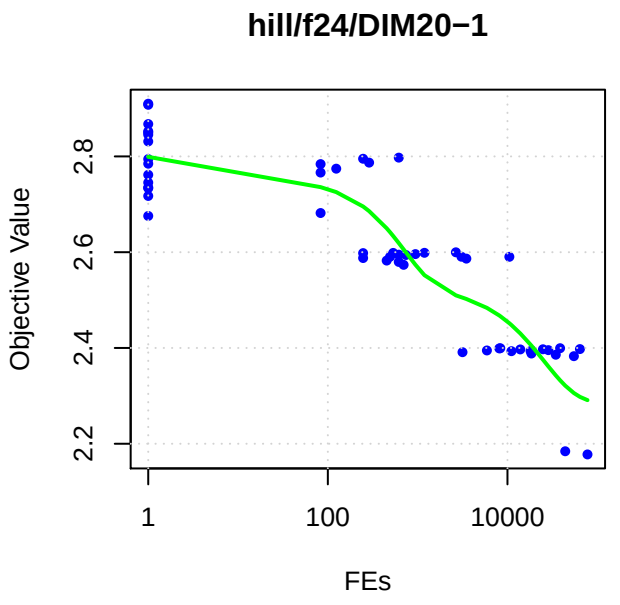
FEs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Objective Value
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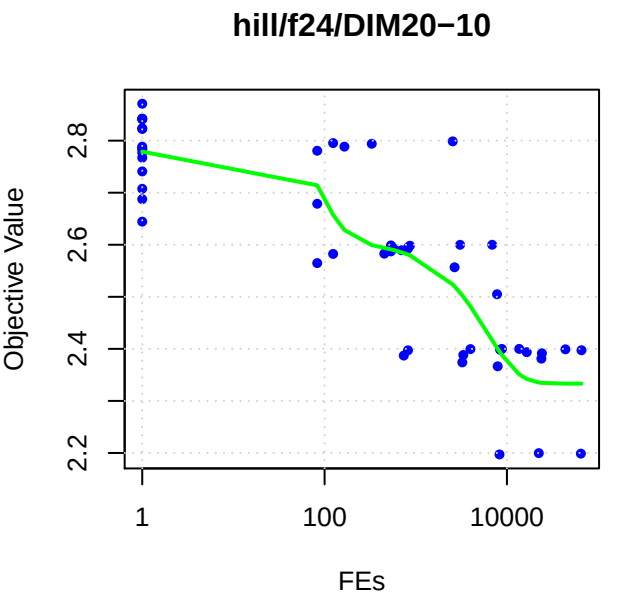
FEs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Objective Value
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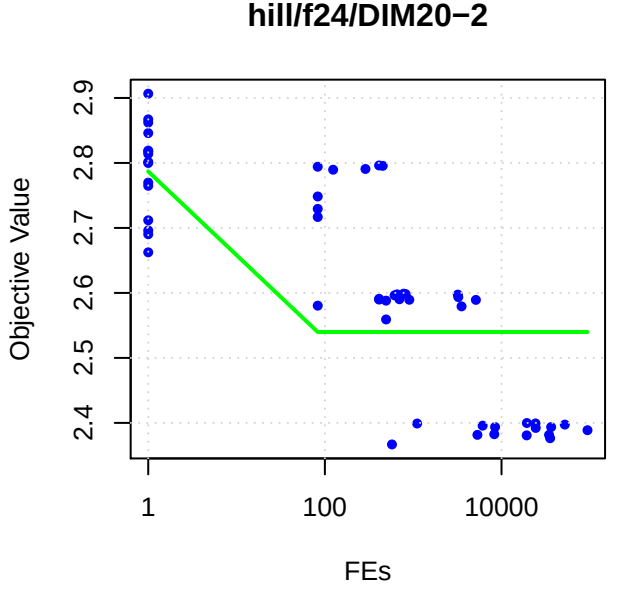
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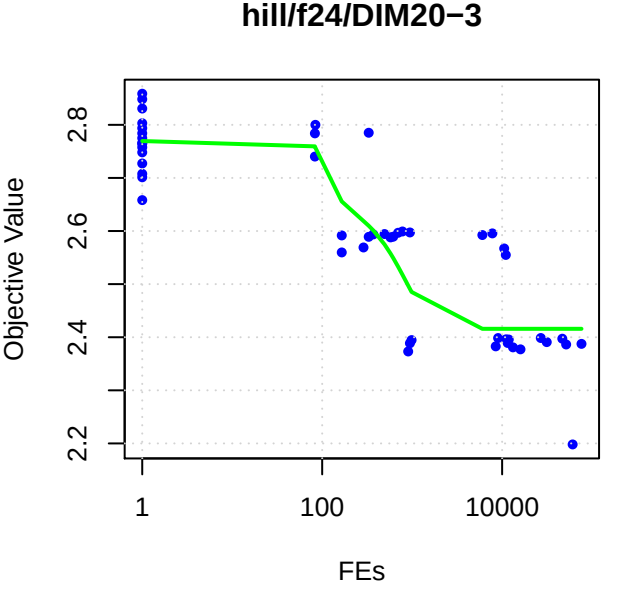
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Objective Value
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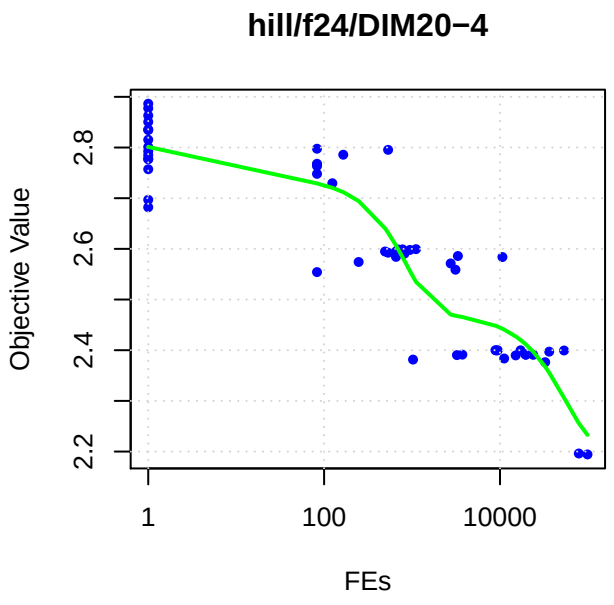
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Objective Value
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2.6
2.8
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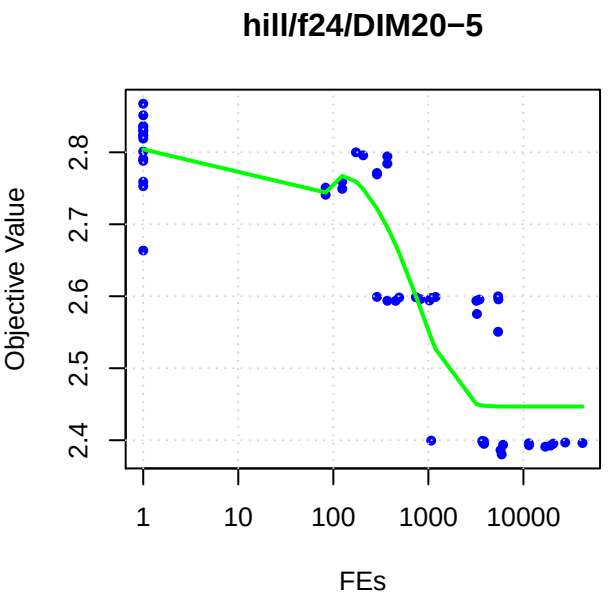
FEs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Objective Value
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2.6
2.7
2.8
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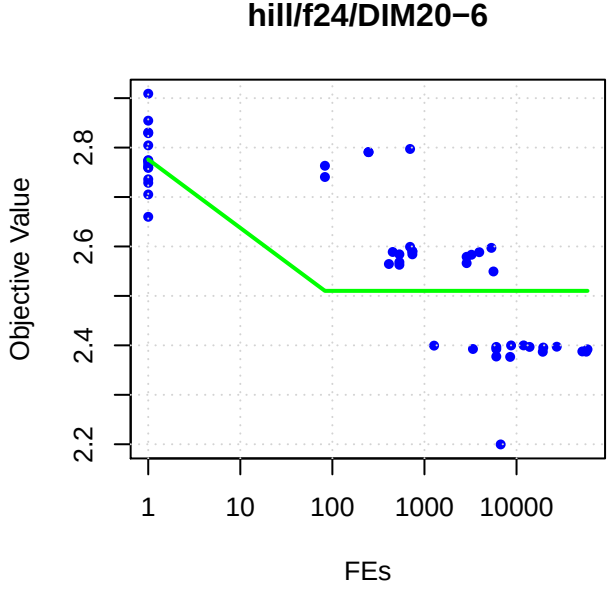
FEs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Objective Value
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2.6
2.8
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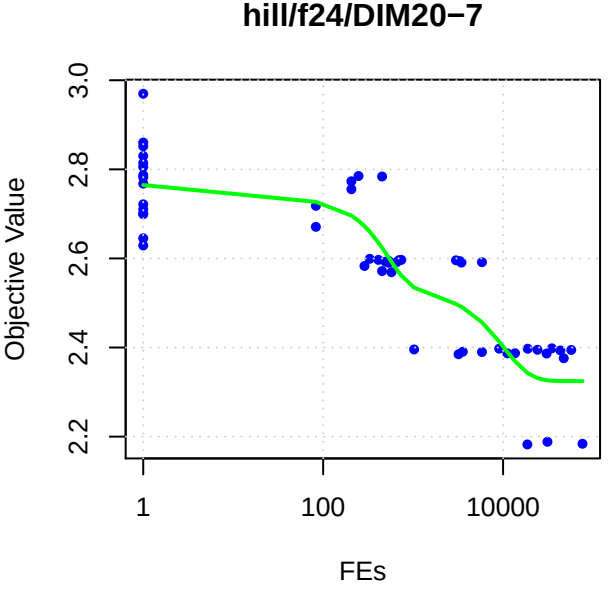
FEs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Objective Value
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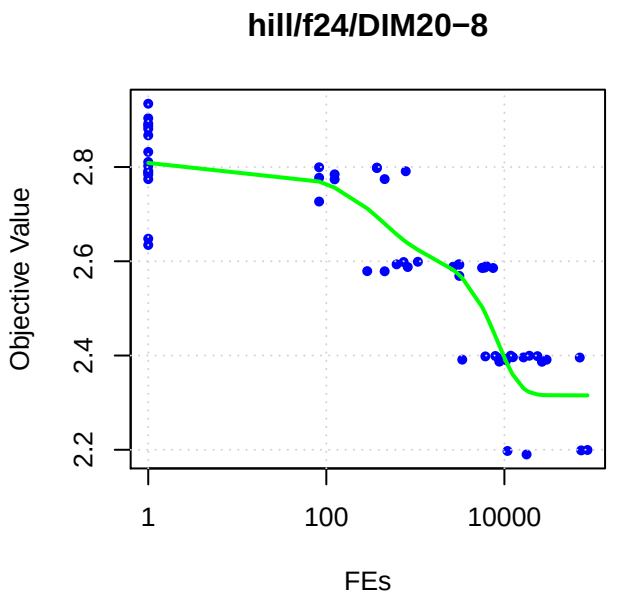
FEs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Objective Value
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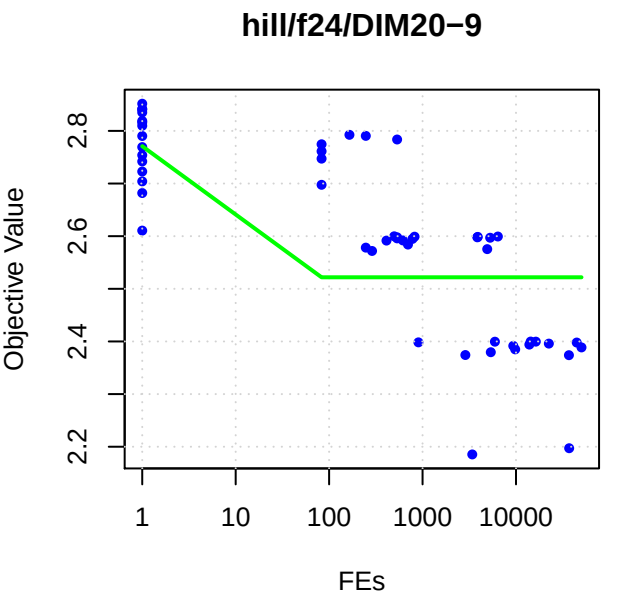
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Objective Value
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2.8
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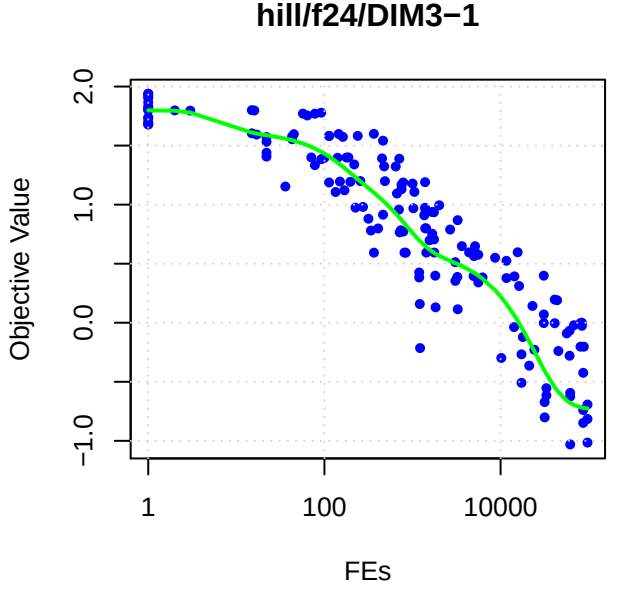
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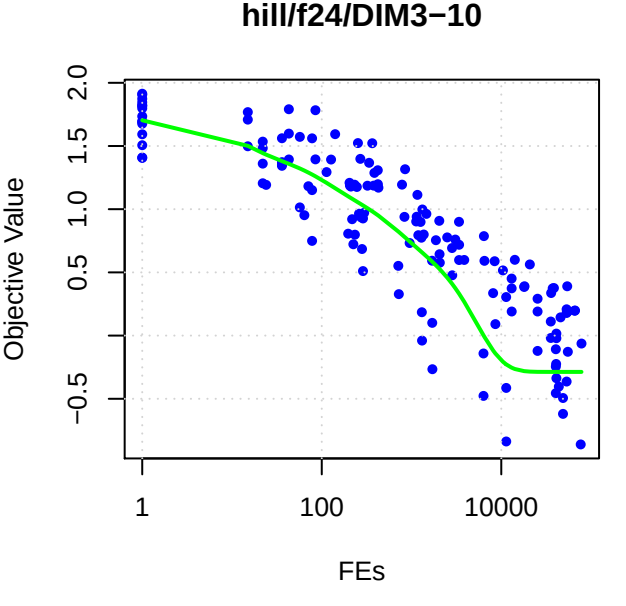
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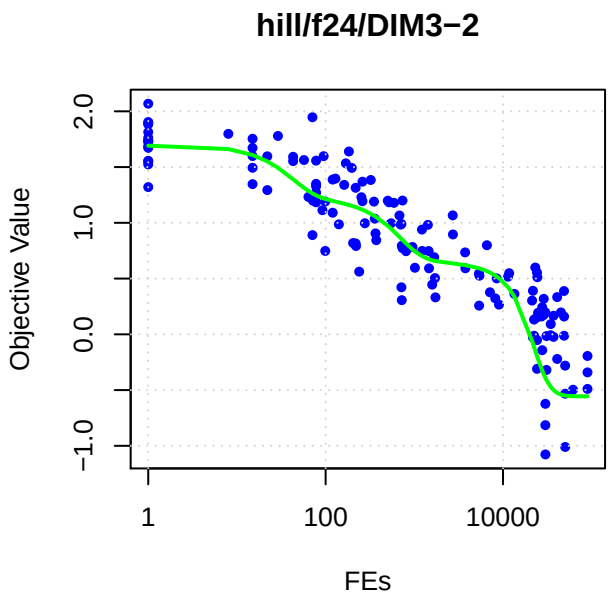
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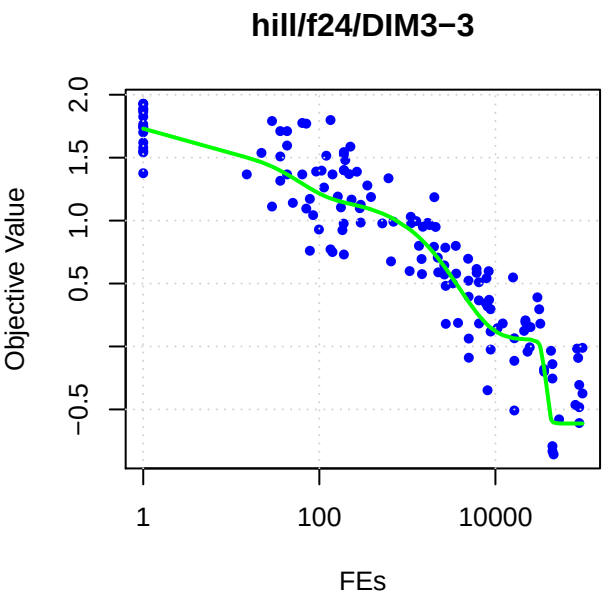
FEs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Objective Value
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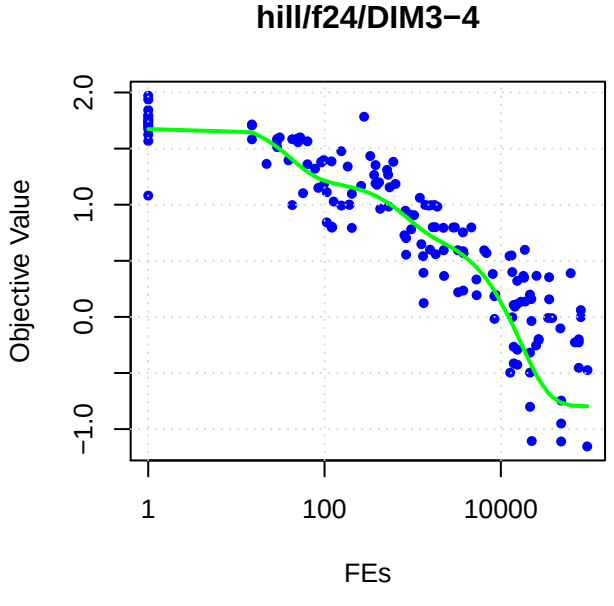
FEs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Objective Value
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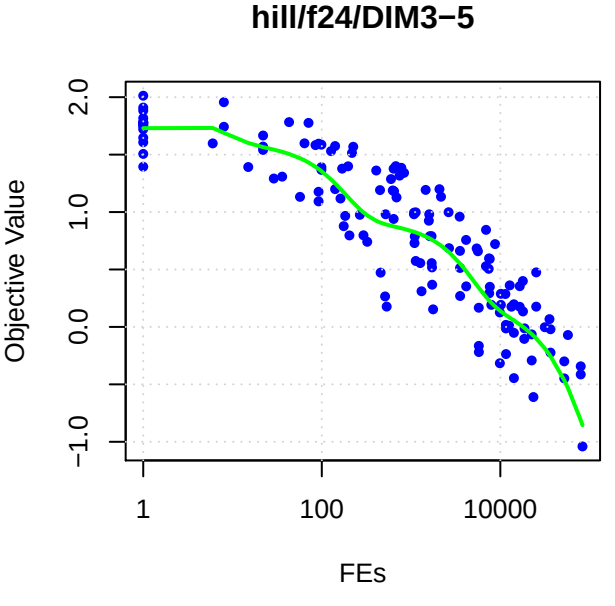
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Objective Value
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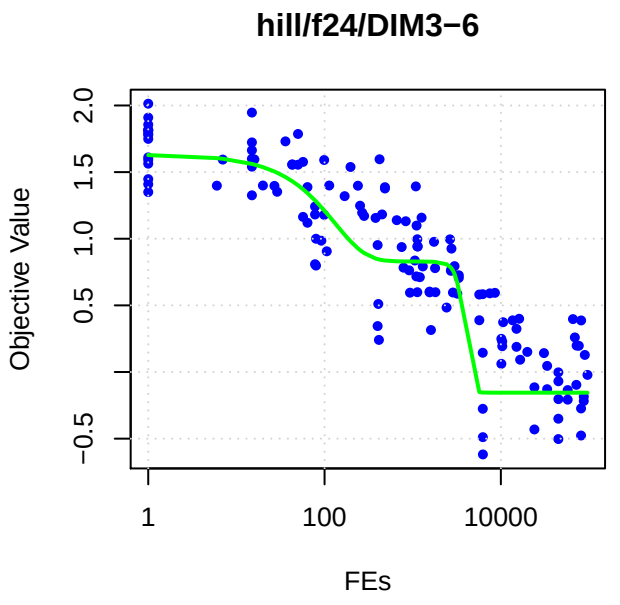
FEs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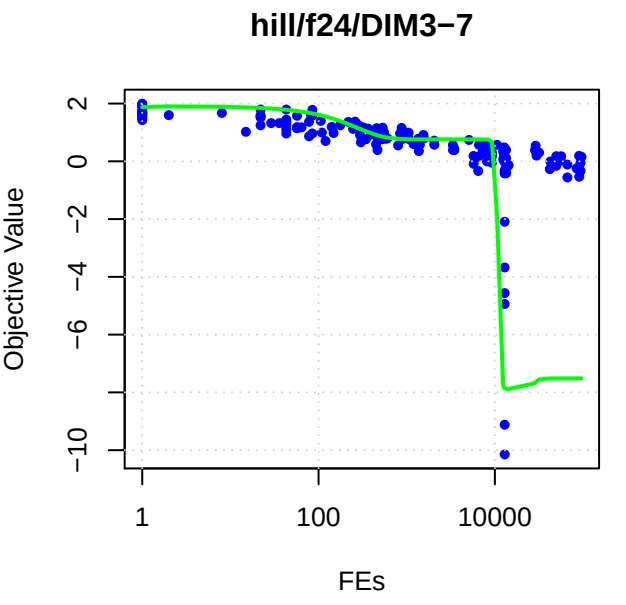
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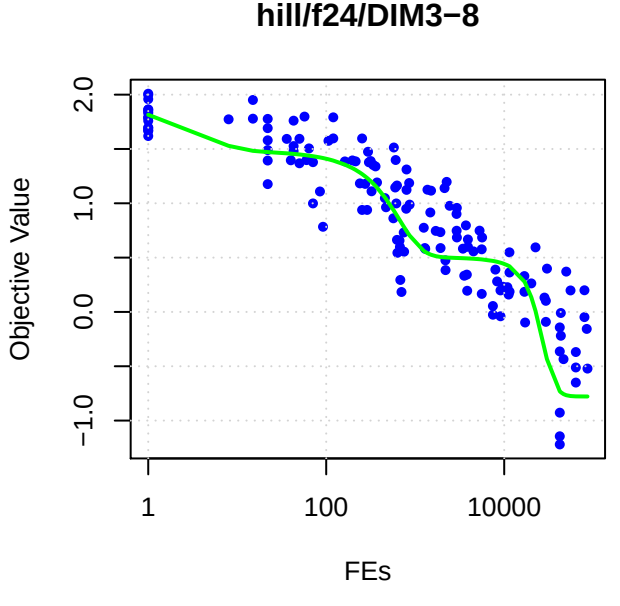
FEs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Objective Value
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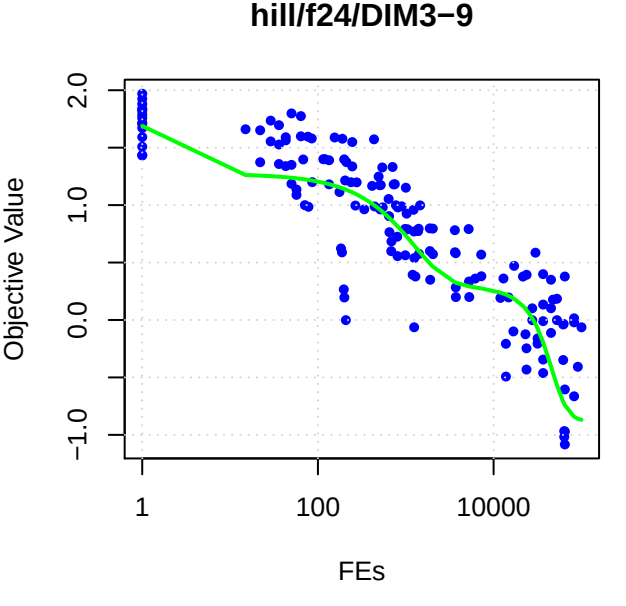
hill/f24/DIM3−9
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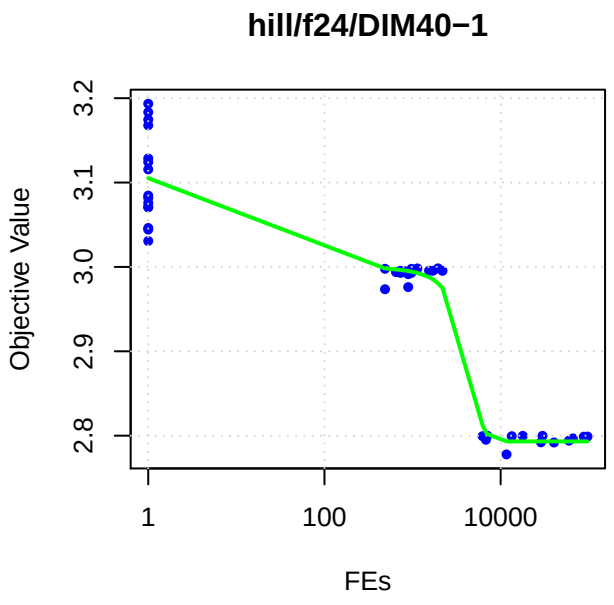
10000
FEs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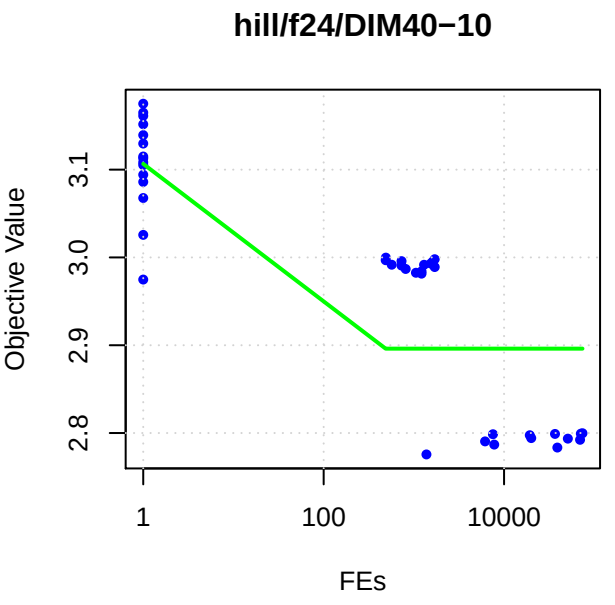
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Objective Value
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2.8
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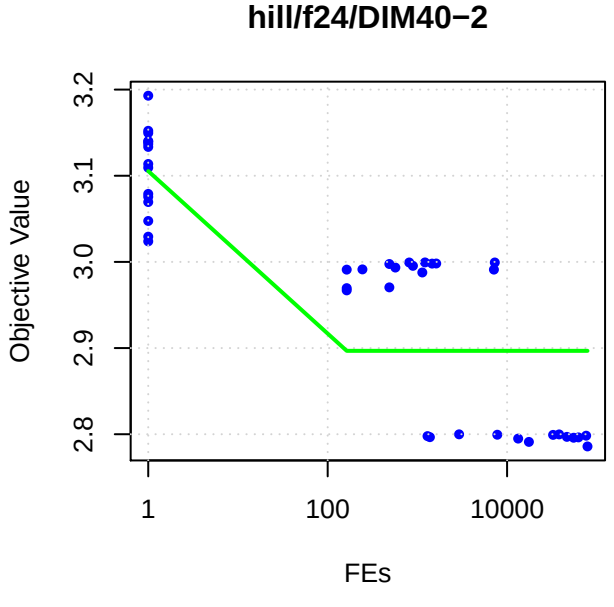
FEs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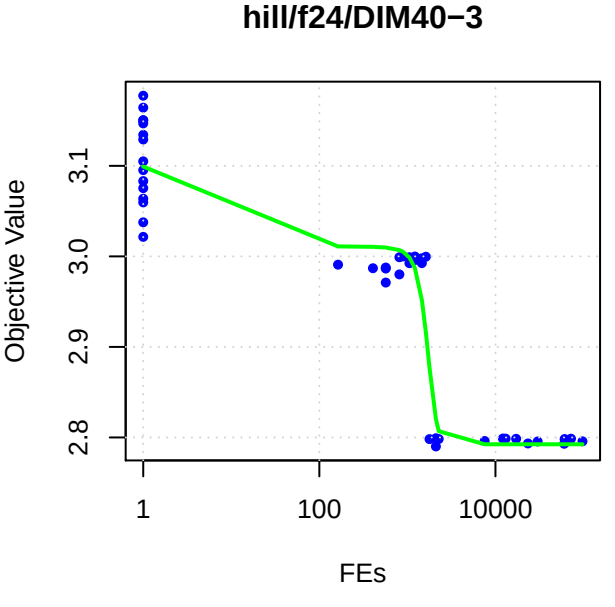
FEs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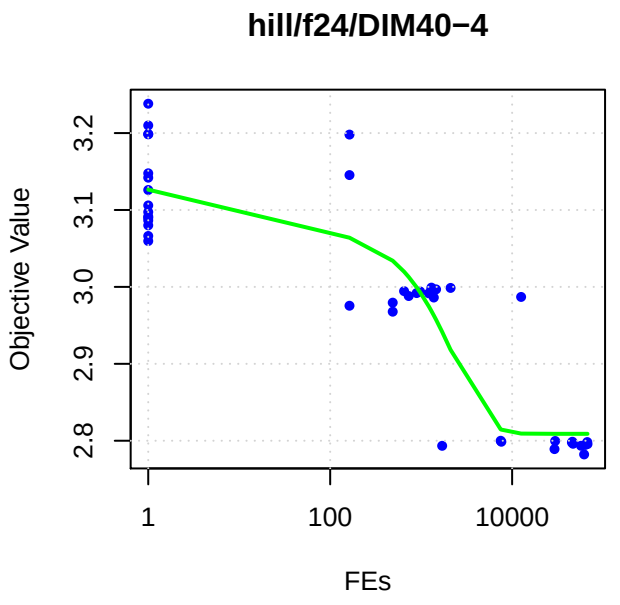
10000
FEs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Objective Value
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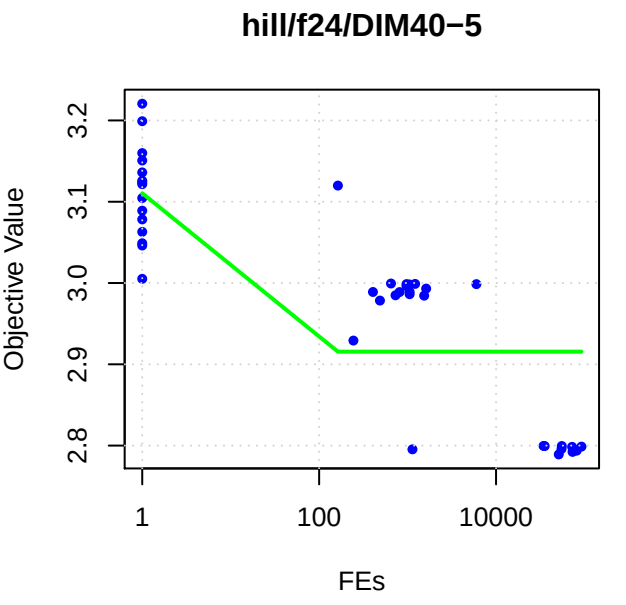
FEs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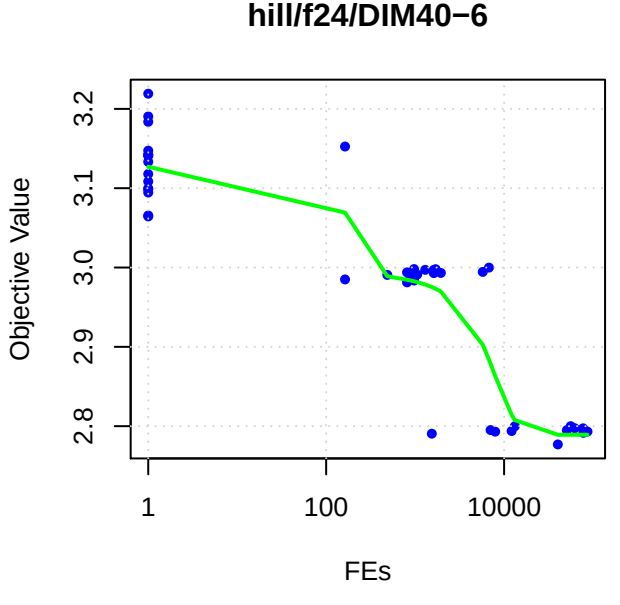
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2.9
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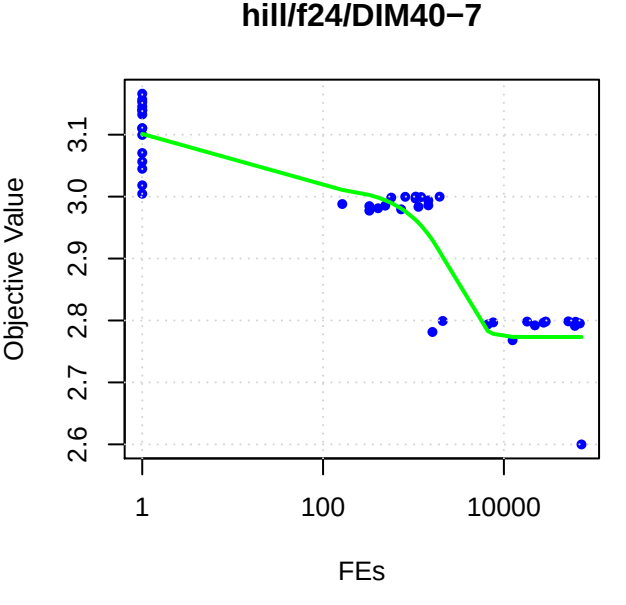
10000
FEs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Objective Value
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2.7
2.6
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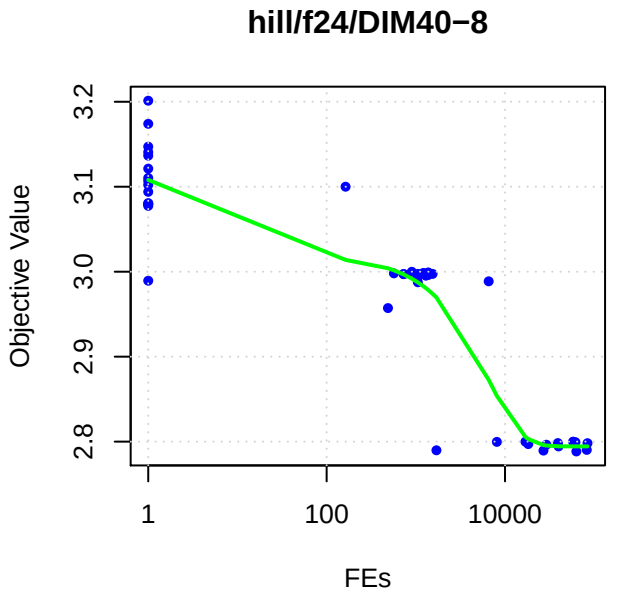
FEs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Objective Value
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2.9
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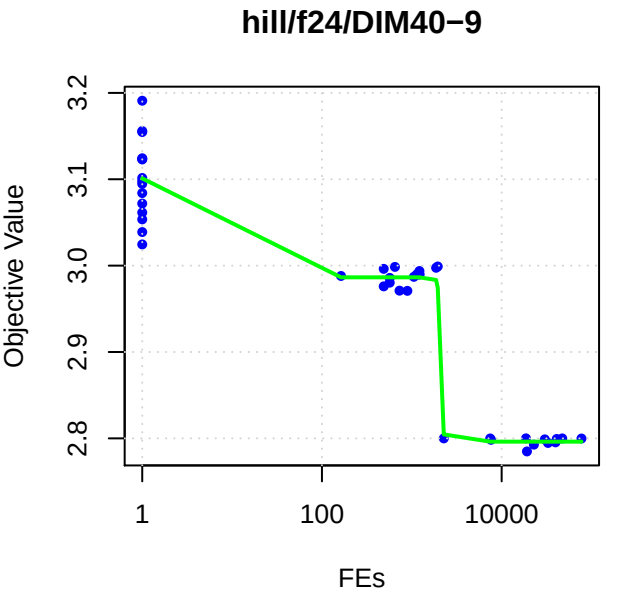
10000
FEs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Objective Value
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2.9
2.8
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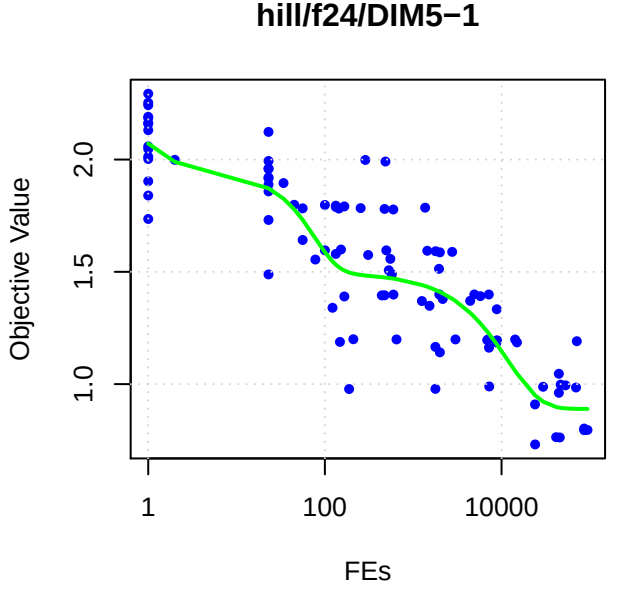
10000
FEs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Objective Value
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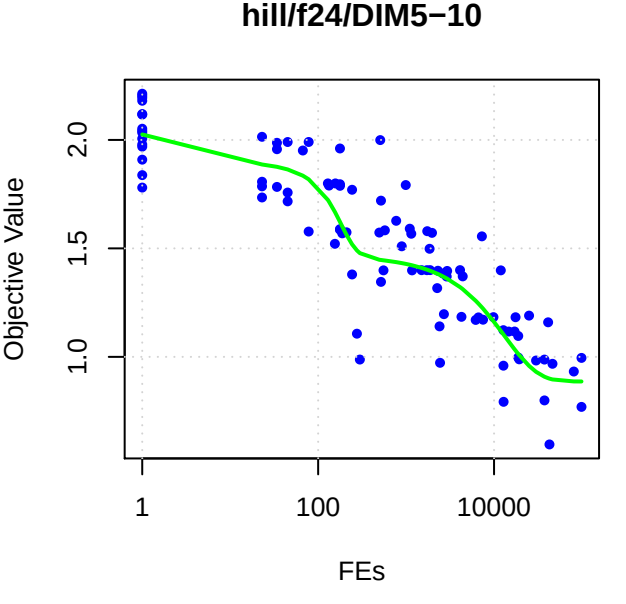
FEs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Objective Value
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1.0
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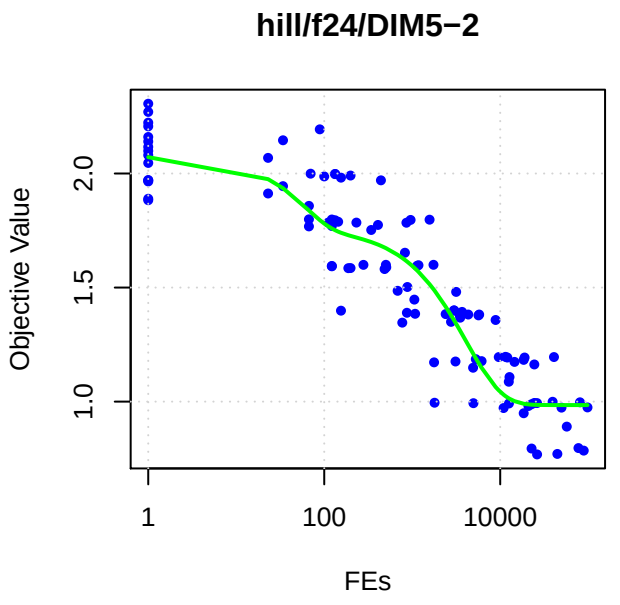
FEs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Objective Value
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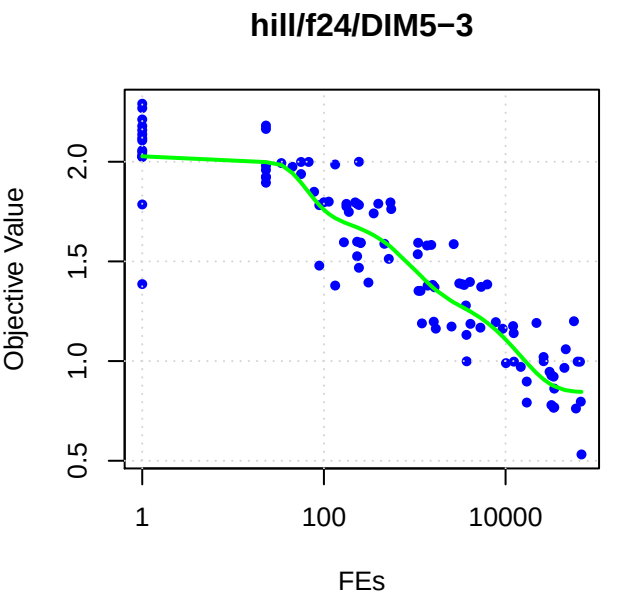
FEs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Objective Value
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1.0
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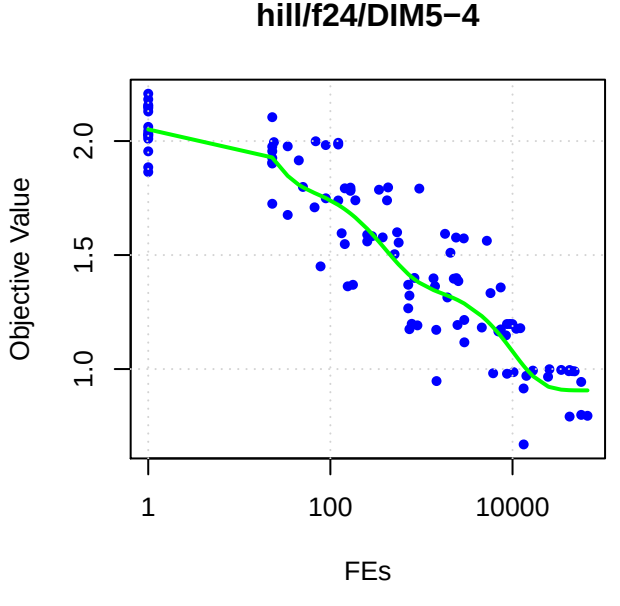
10000
FEs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Objective Value
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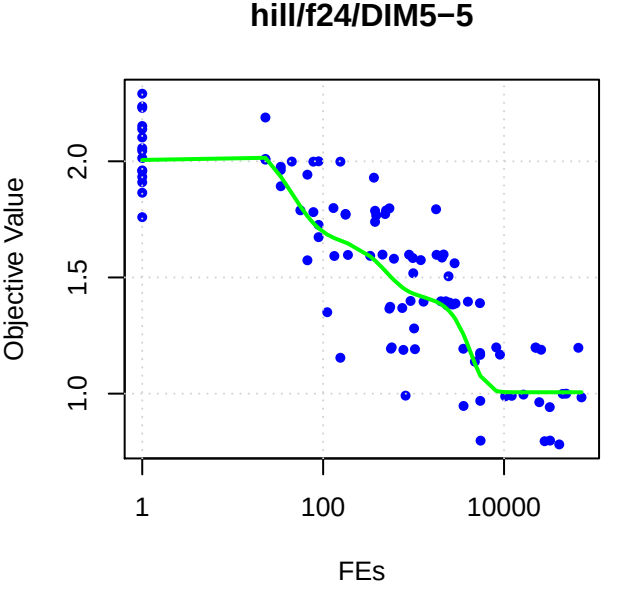
FEs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Objective Value
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1.0
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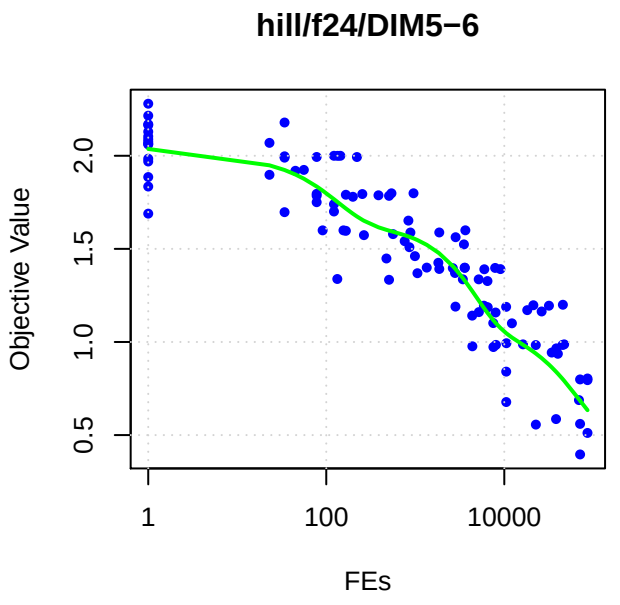
10000
FEs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Objective Value
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2.0
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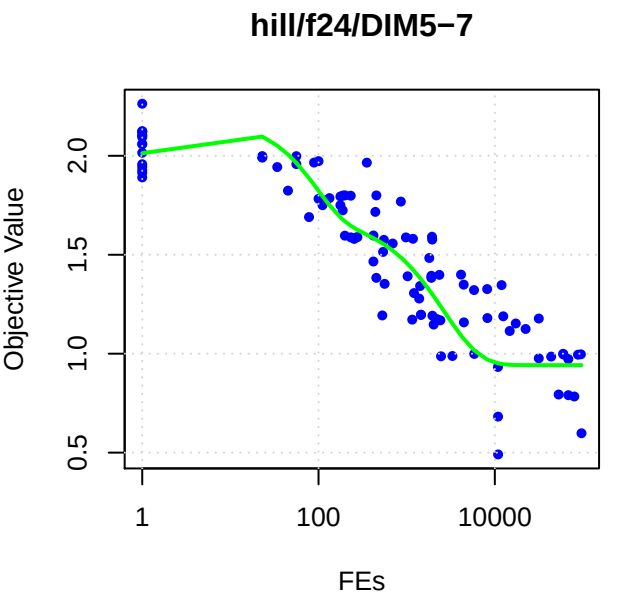
10000
FEs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Objective Value
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1.5
2.0
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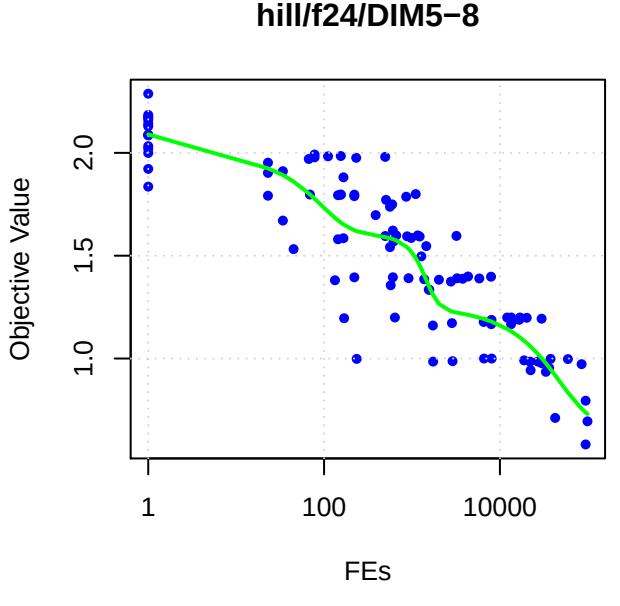
10000
FEs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Objective Value
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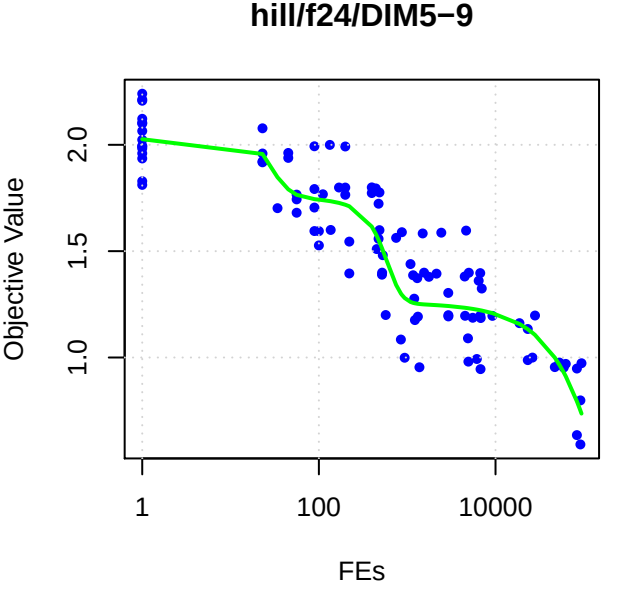
FEs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Objective Value
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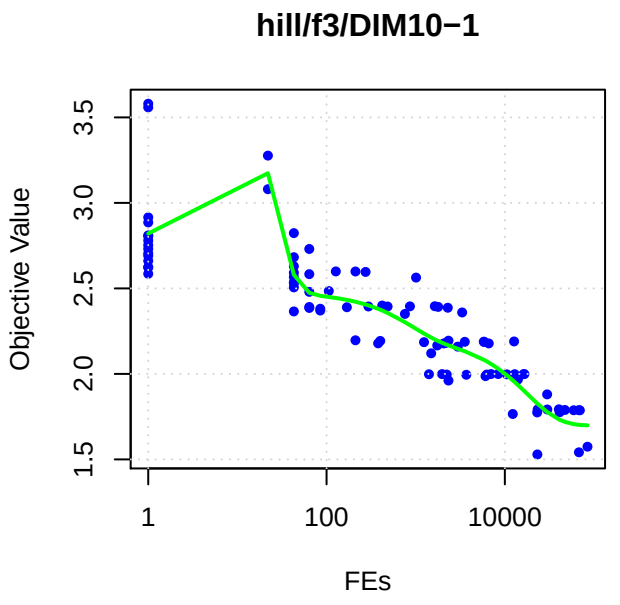
FEs


hill/f3/DIM10−1
Objective Value
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2.0
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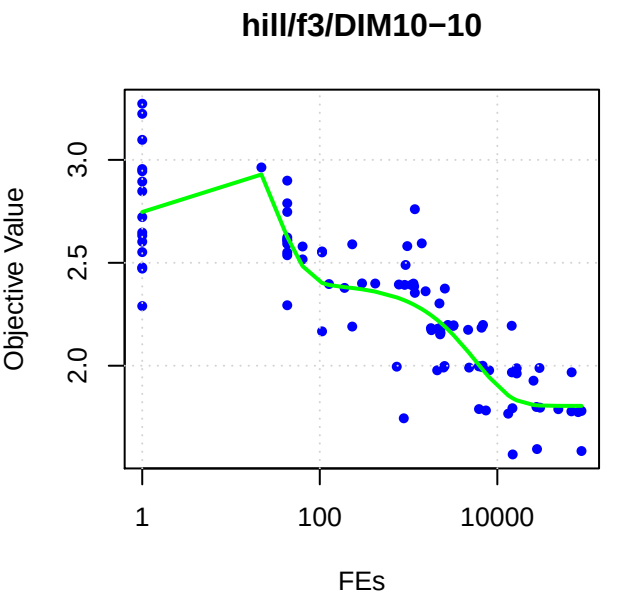
FEs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Objective Value
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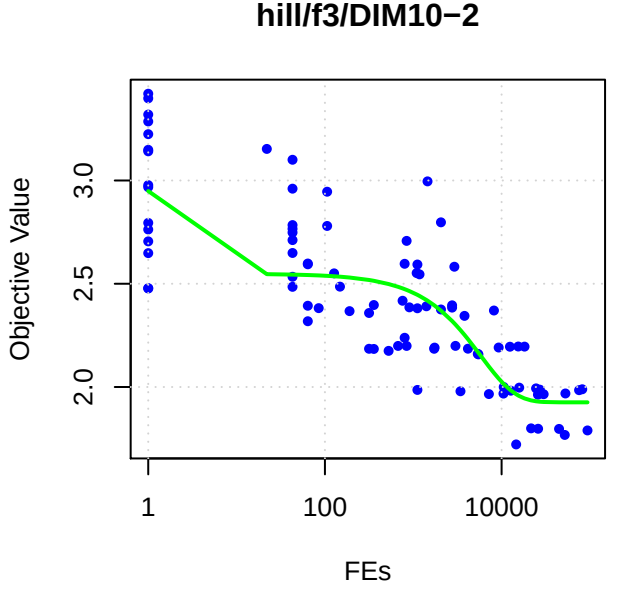
FEs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Objective Value
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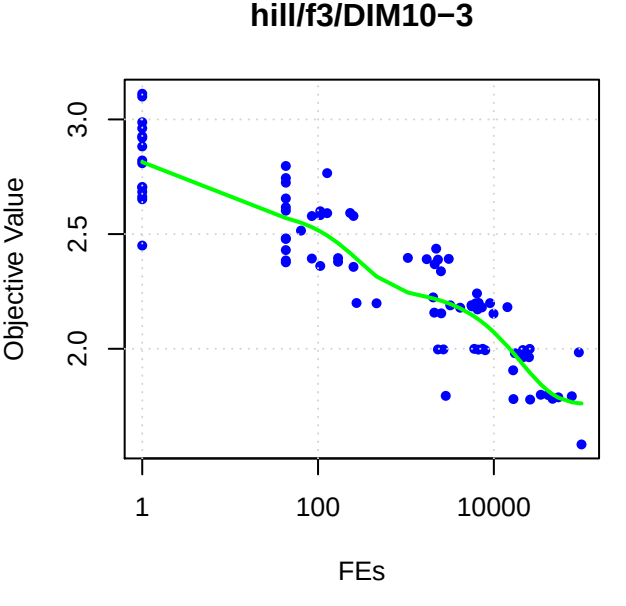
FEs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Objective Value
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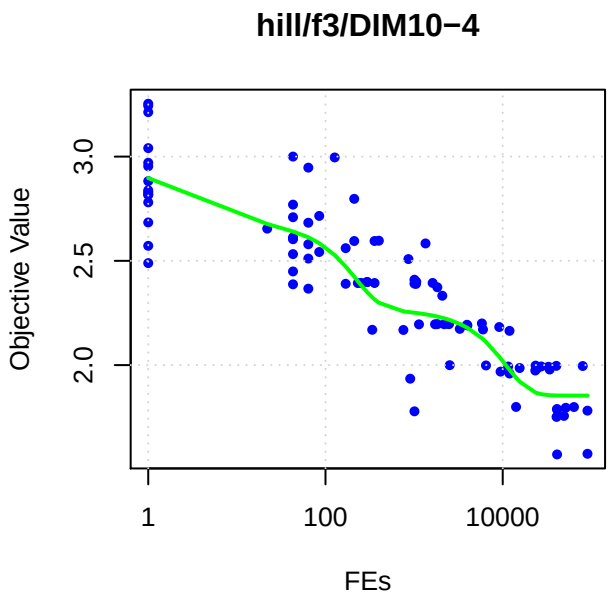
FEs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Objective Value
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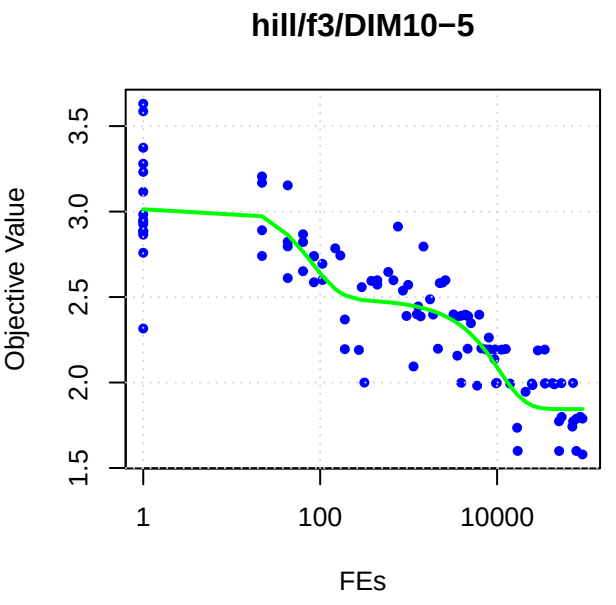
FEs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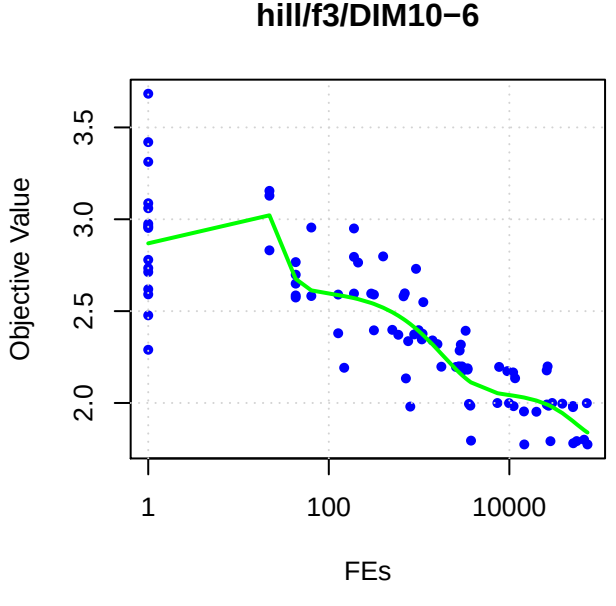
FEs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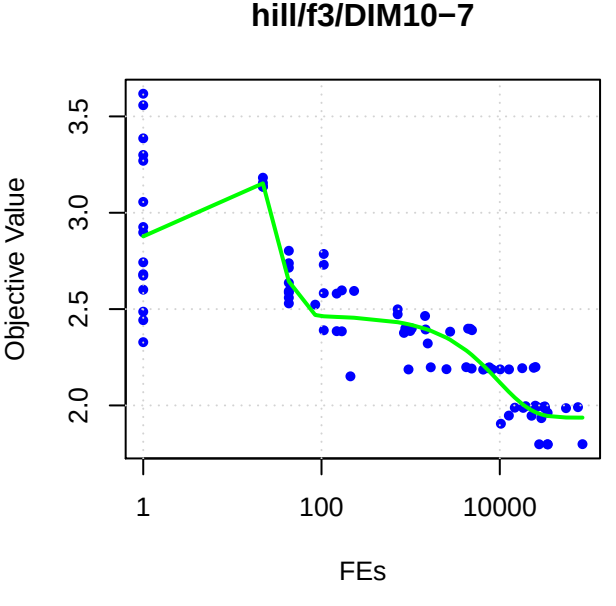
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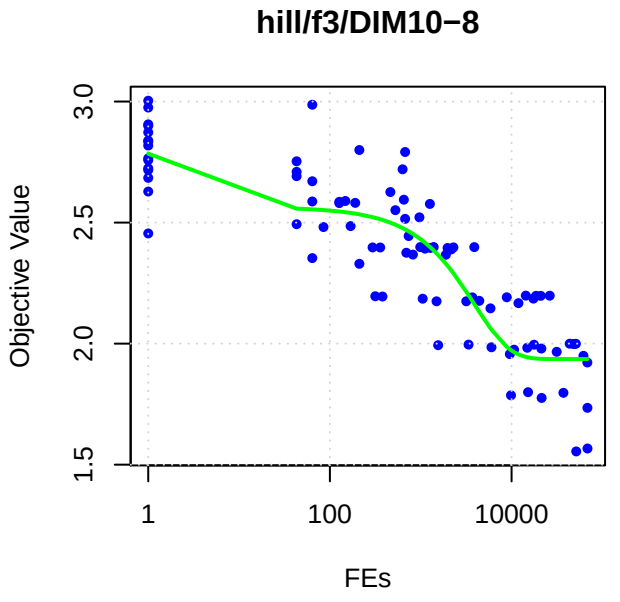
FEs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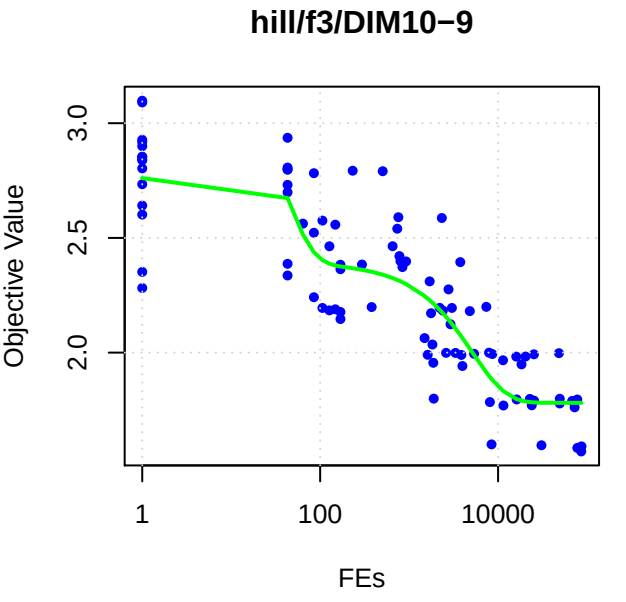
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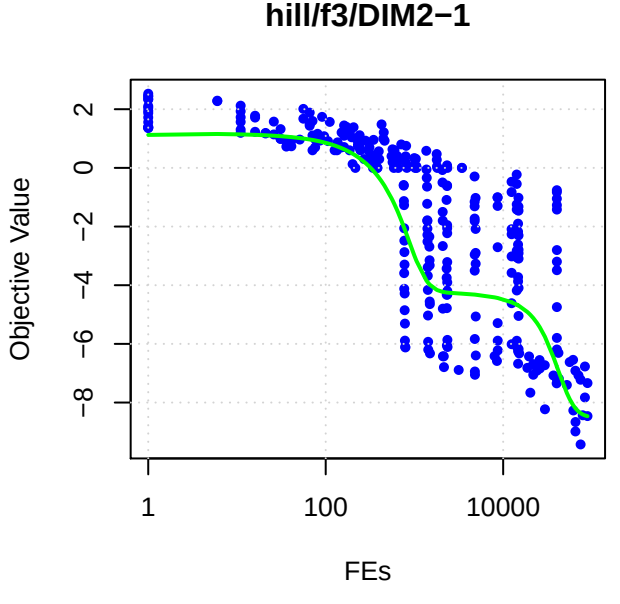
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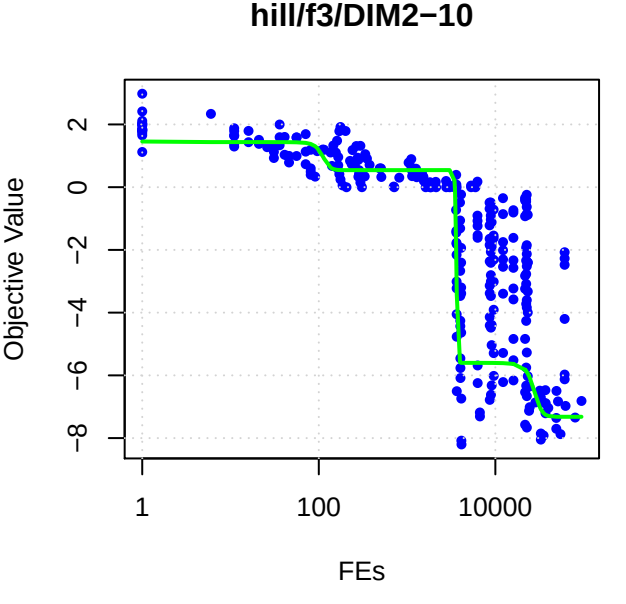
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Objective Value
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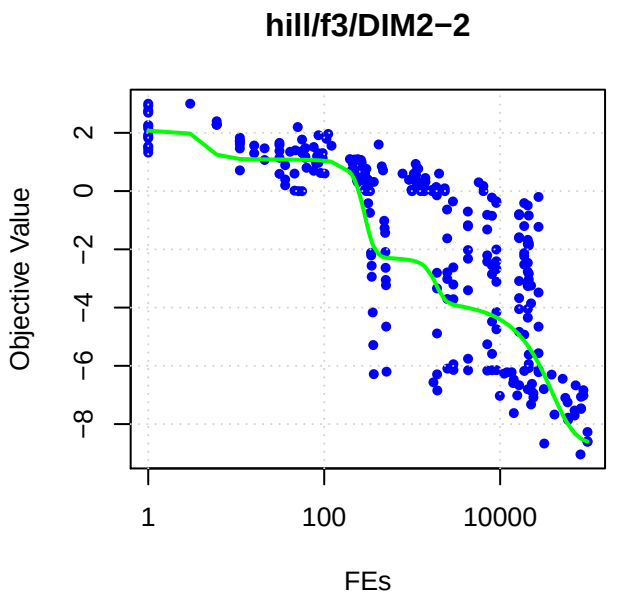
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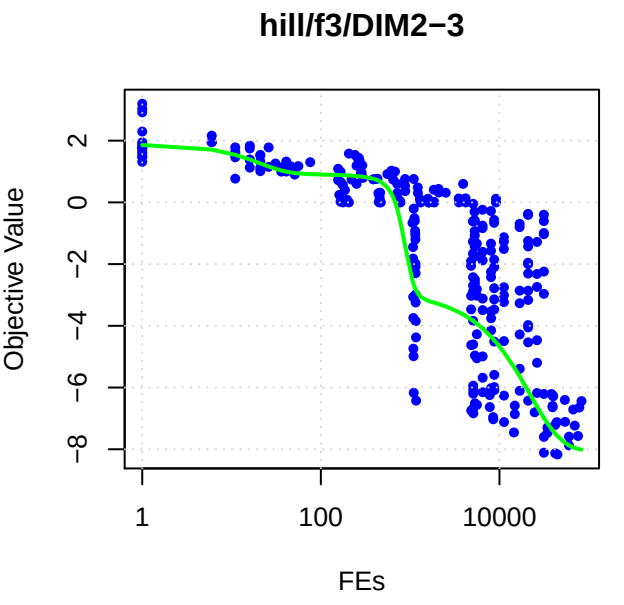
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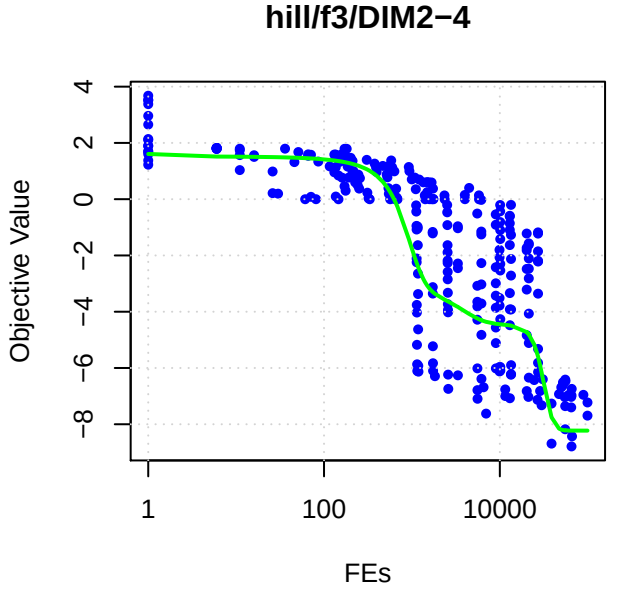
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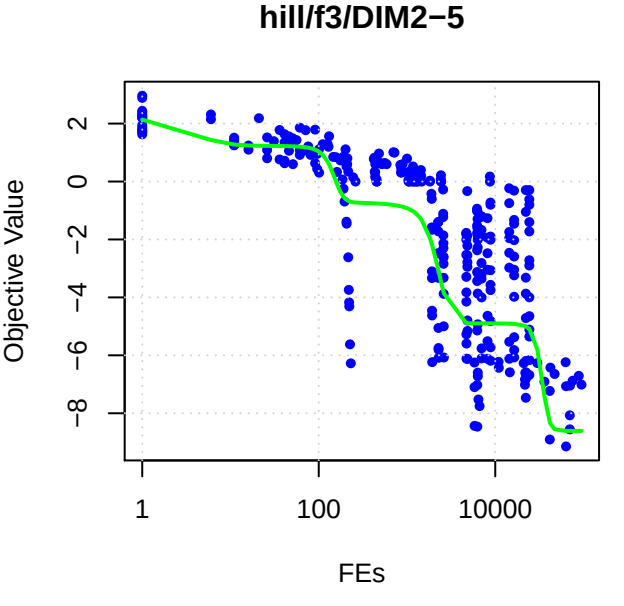
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Objective Value
FEs
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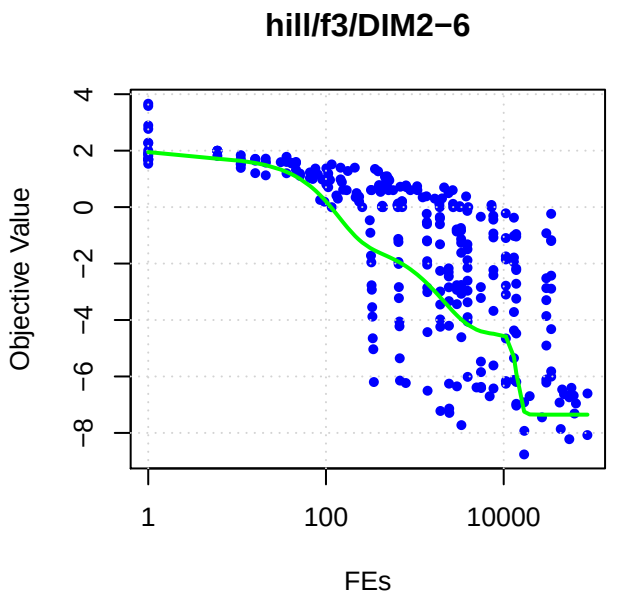
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Objective Value
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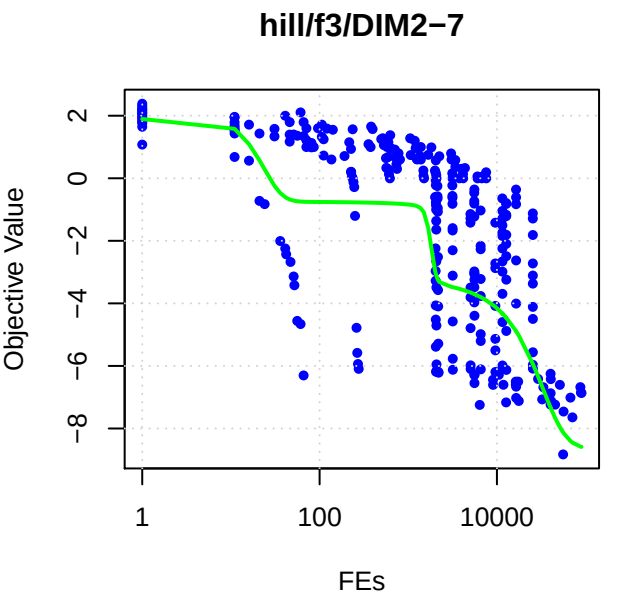
hill/f3/DIM2−7
Objective Value
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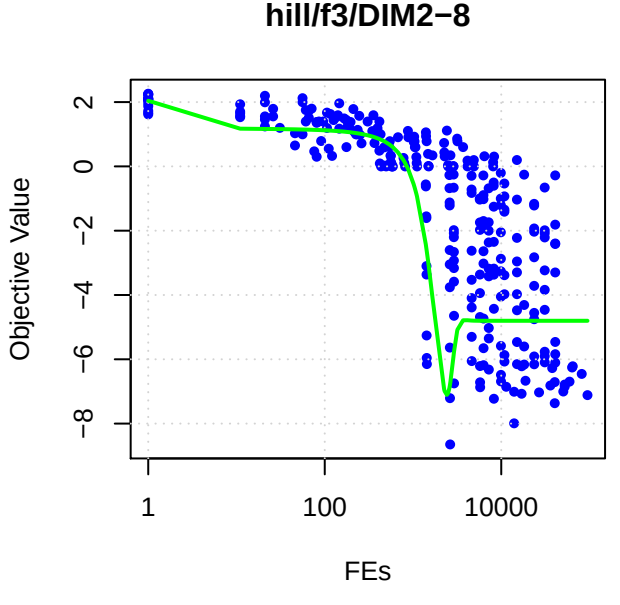
FEs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Objective Value
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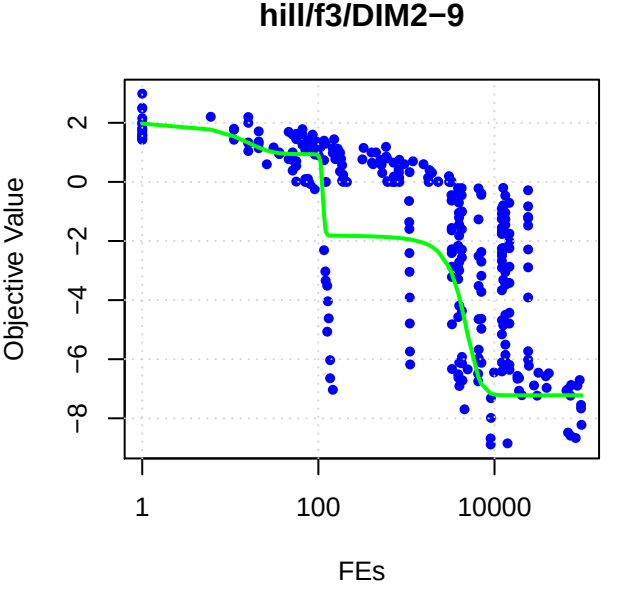
FEs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Objective Value
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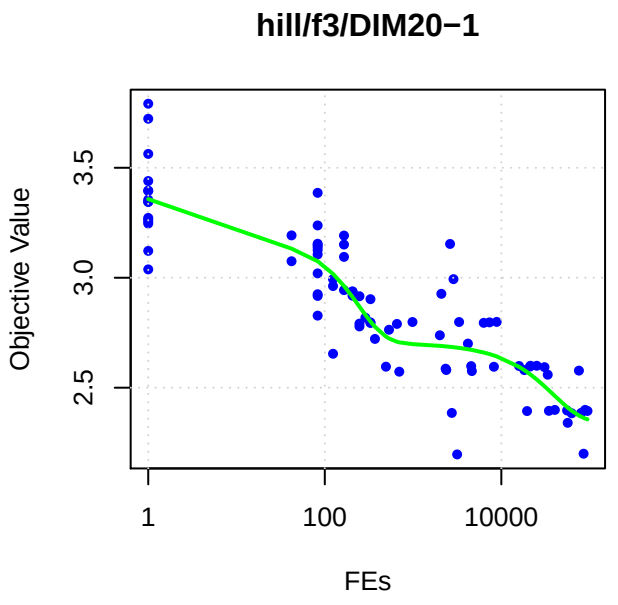
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Objective Value
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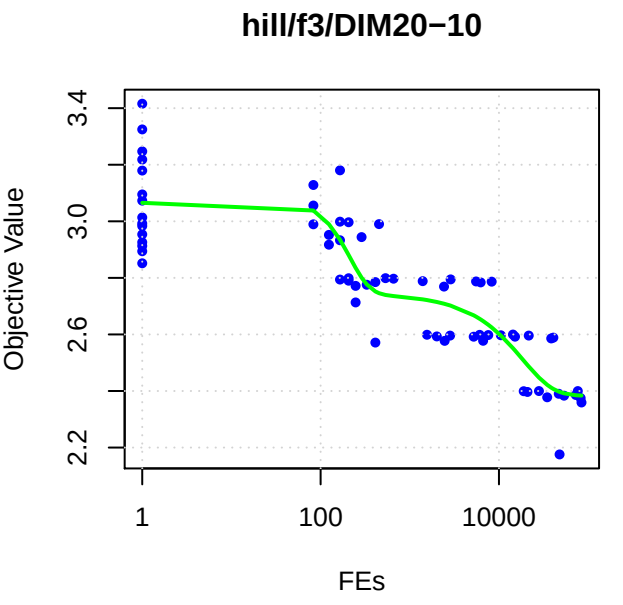
hill/f3/DIM20−10
Objective Value
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2.6
2.2
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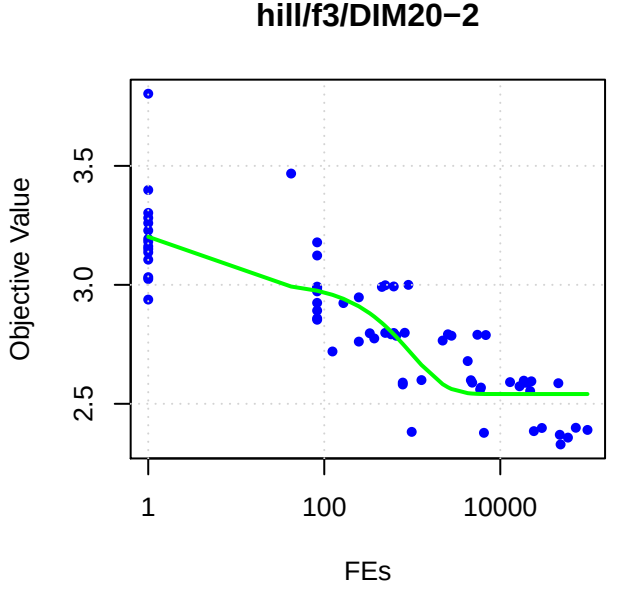
10000
FEs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Objective Value
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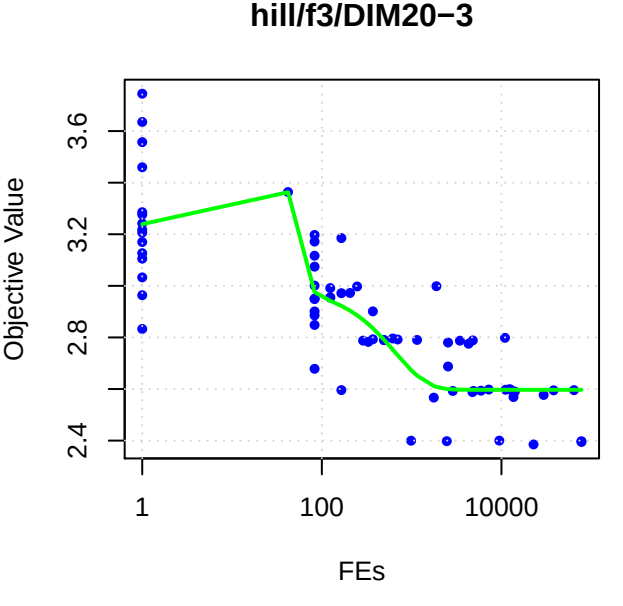
10000
FEs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Objective Value
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2.4
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10000
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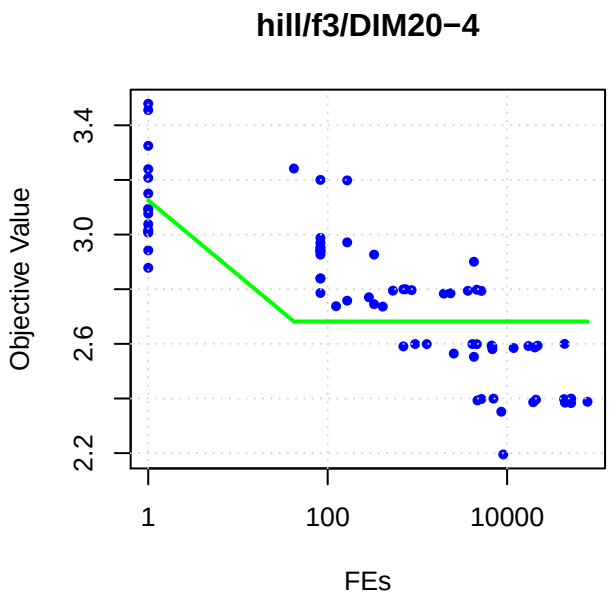
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Objective Value
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2.6
2.2
1
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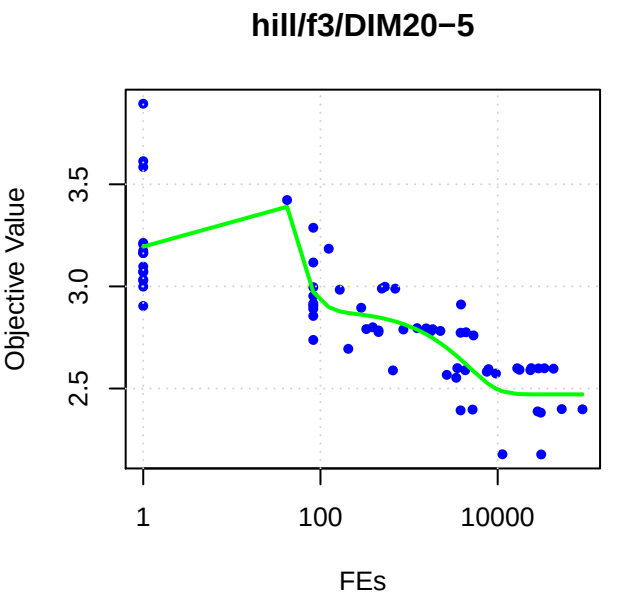
10000
FEs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Objective Value
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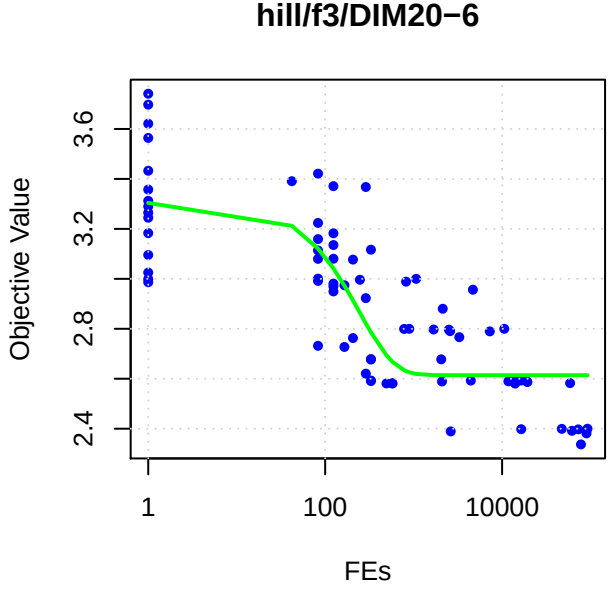
FEs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Objective Value
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3.2
2.8
2.4
1
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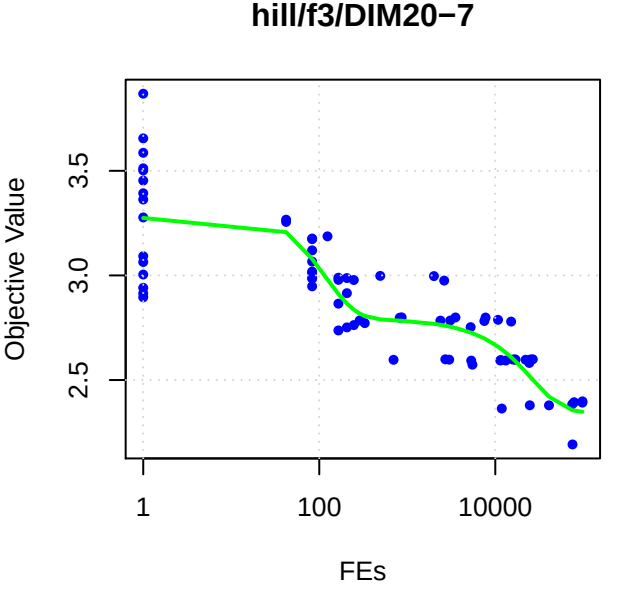
10000
FEs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Objective Value
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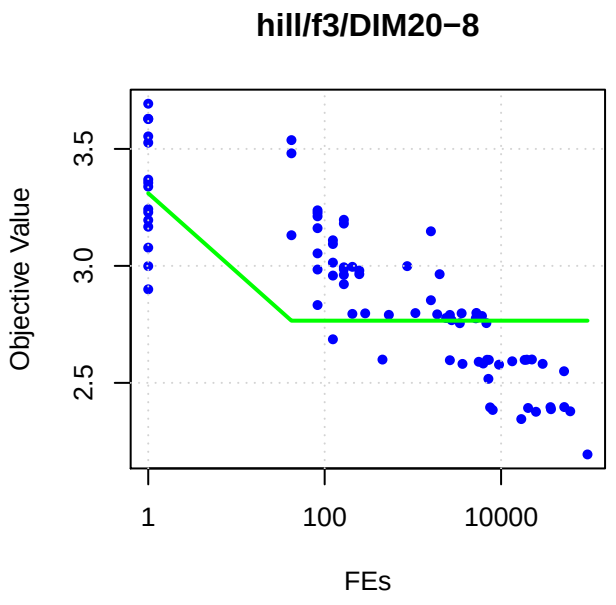
10000
FEs


hill/f3/DIM20−8
Objective Value
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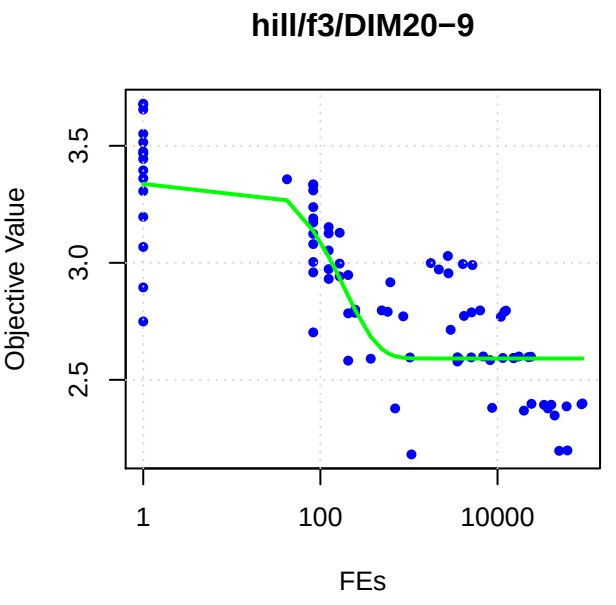
3.0
2.5
1
100
10000
FEs


hill/f3/DIM20−9
Objective Value
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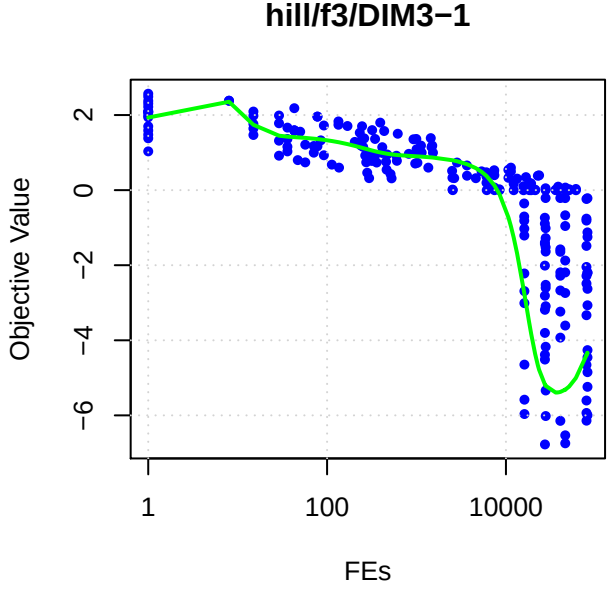
FEs


hill/f3/DIM3−1
Objective Value
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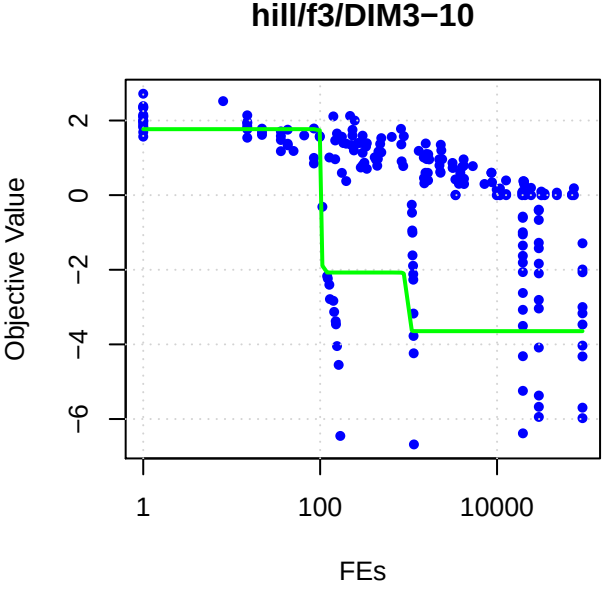
−2
−4
−6
1
100
10000
FEs


hill/f3/DIM3−10
Objective Value
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−2
−4
−6
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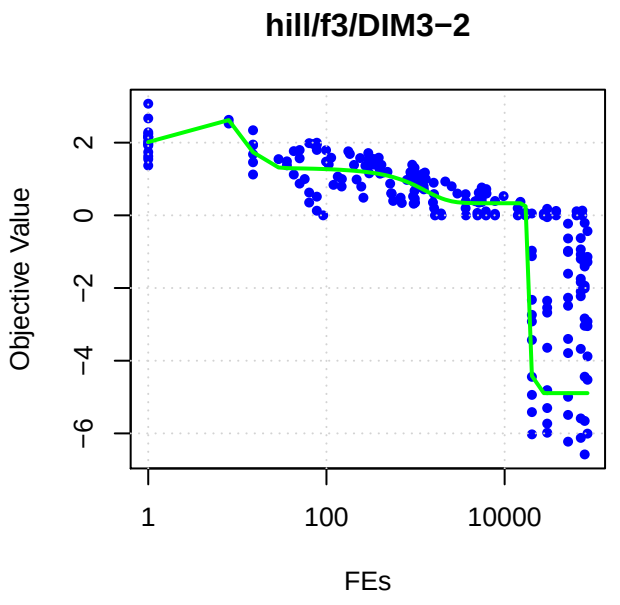
100
10000
FEs


hill/f3/DIM3−2
Objective Value
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−2
−4
−6
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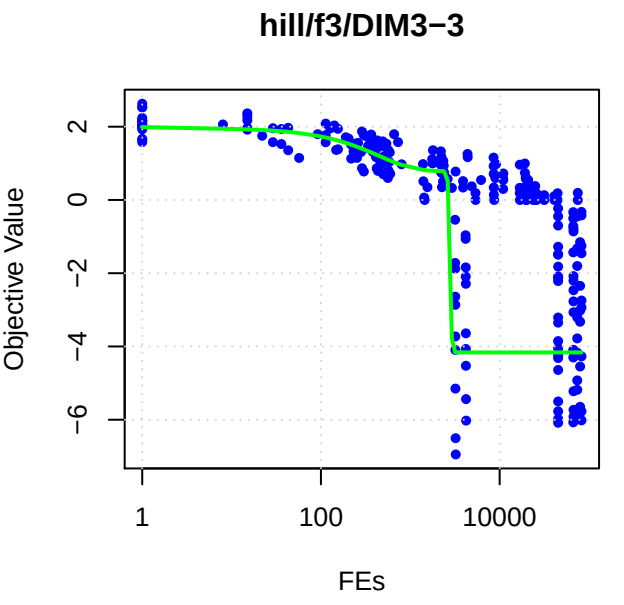
10000
FEs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Objective Value
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−6
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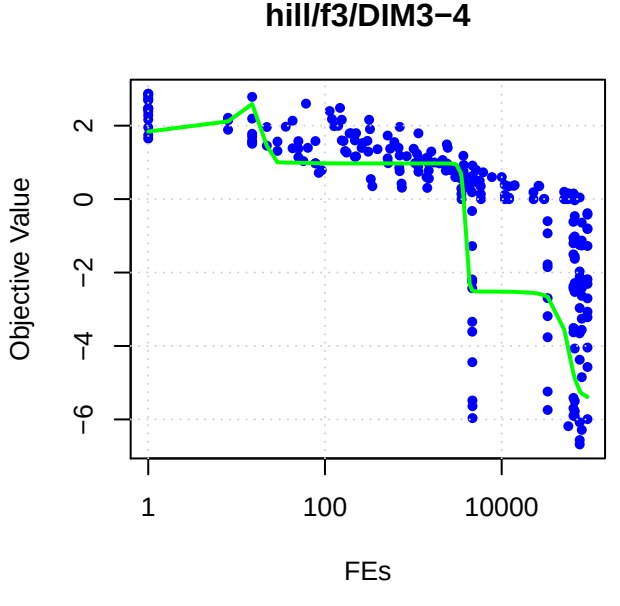
FEs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Objective Value
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−2
−4
−6
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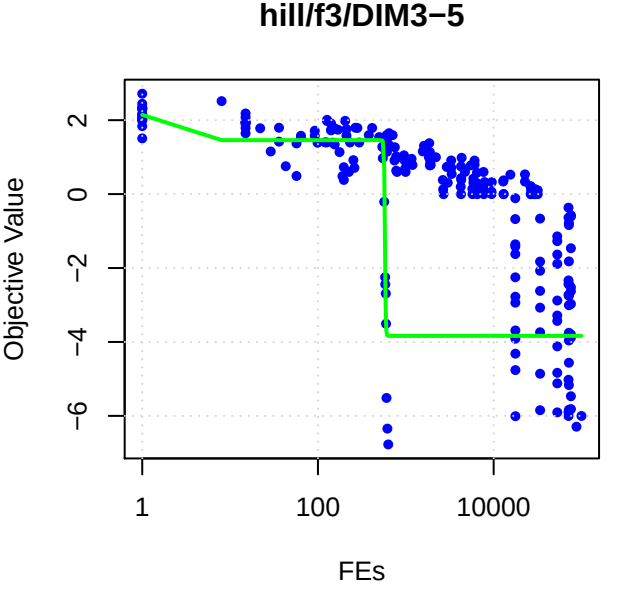
100
10000
FEs


hill/f3/DIM3−5
Objective Value
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−2
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−6
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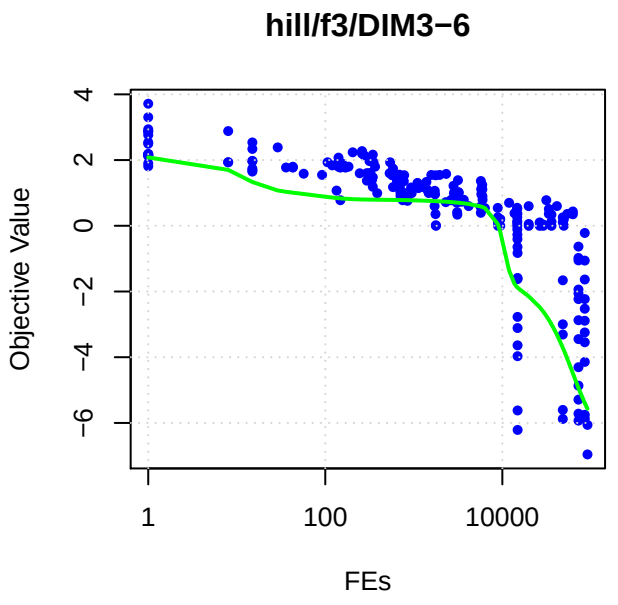
10000
FEs


hill/f3/DIM3−6
Objective Value
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−2
−4
−6
1
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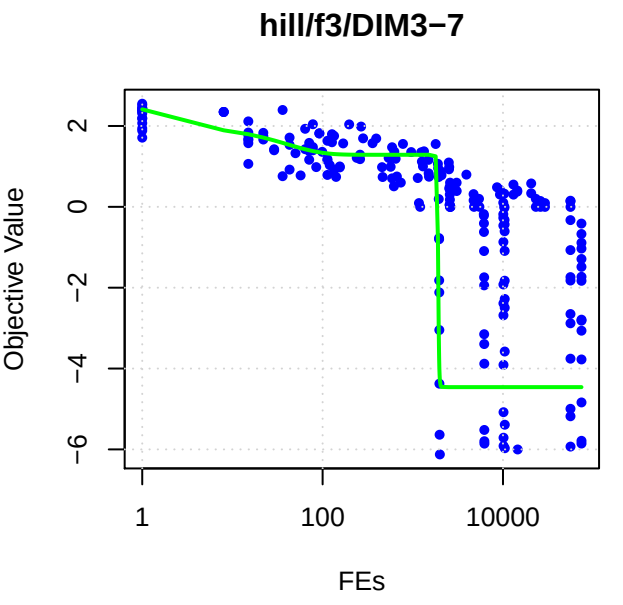
10000
FEs


hill/f3/DIM3−7
Objective Value
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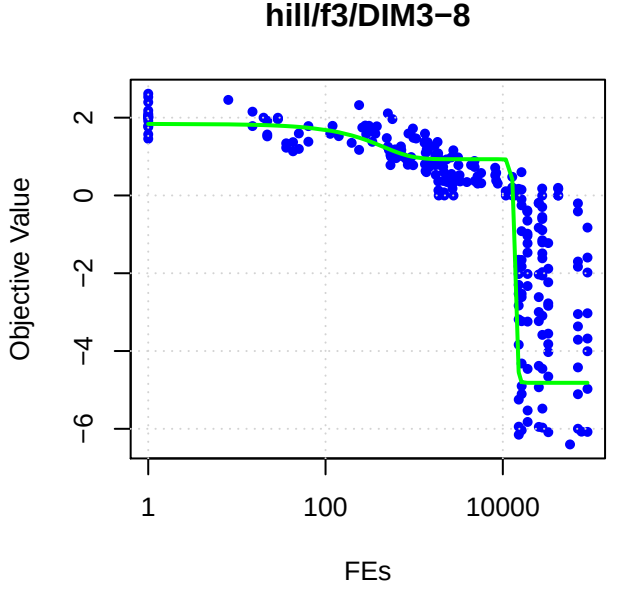
−2
−4
−6
1
100
10000
FEs


hill/f3/DIM3−8
Objective Value
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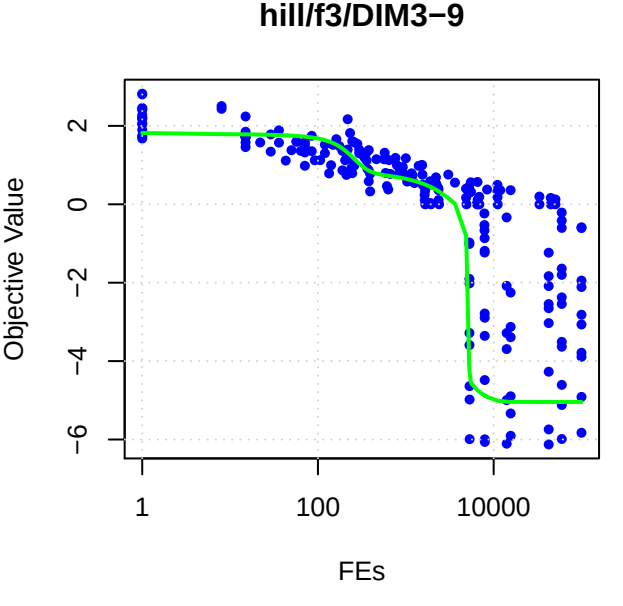
−2
−4
−6
1
100
10000
FEs


hill/f3/DIM3−9
Objective Value
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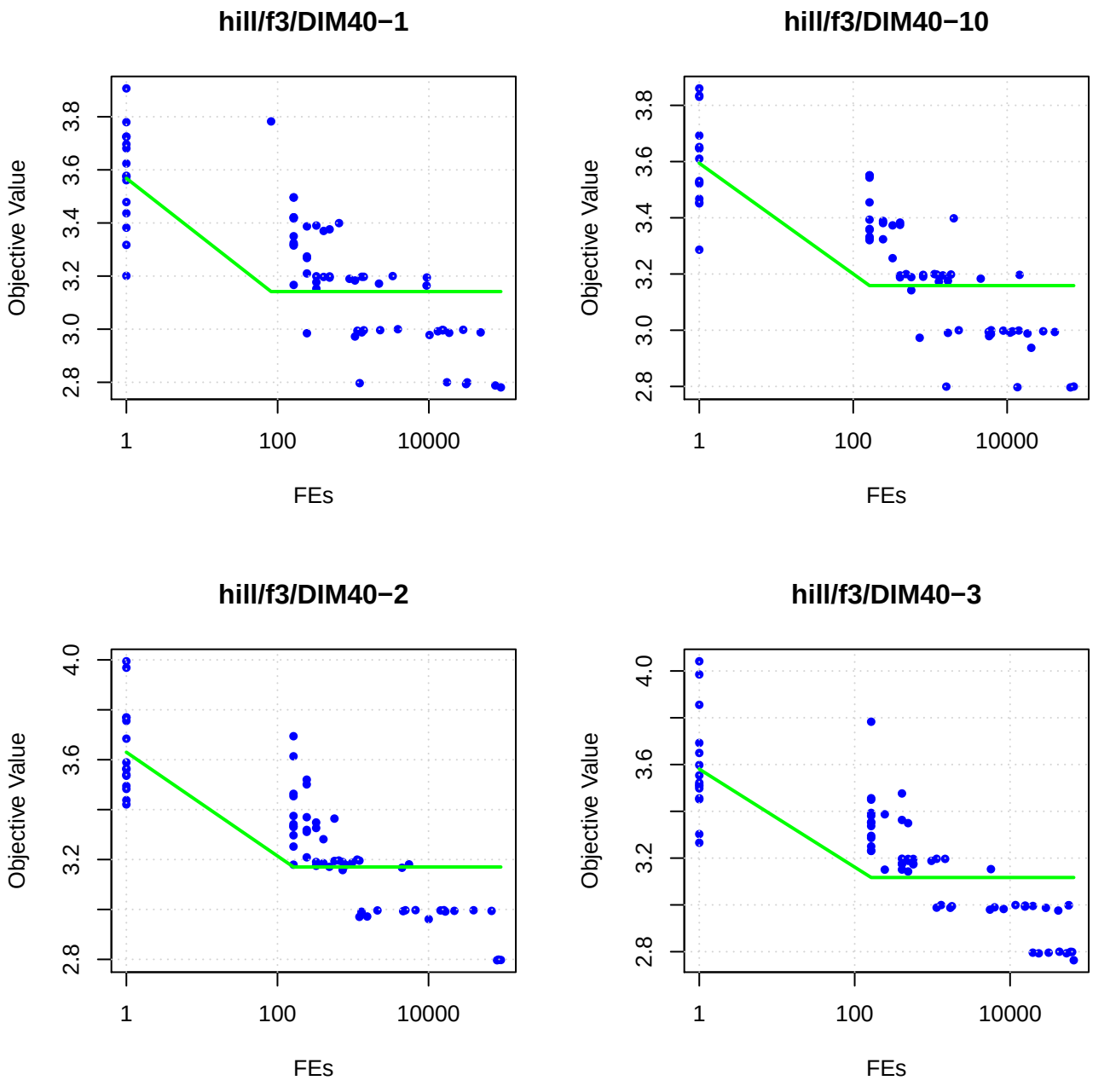
−2
−4
−6
1
100
10000
FEs


hill/f3/DIM40−1
hill/f3/DIM40−10
hill/f3/DIM40−2
hill/f3/DIM40−3
Objective Value
FEs
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10000
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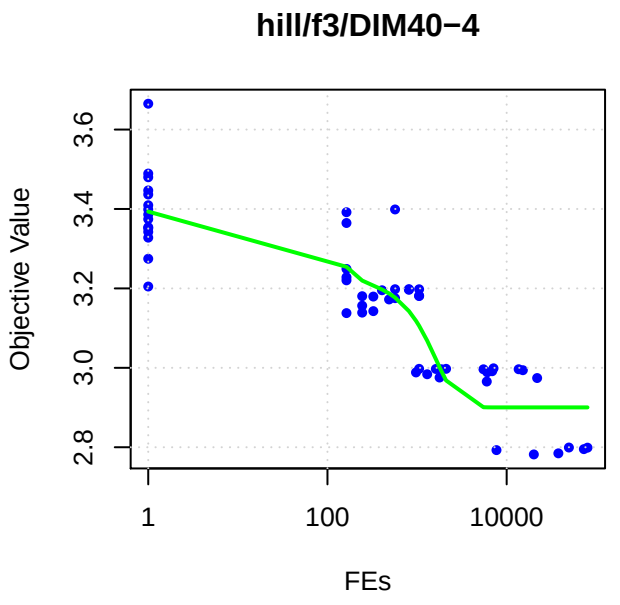
3.0
3.2
3.4
3.6
3.8
4.0


hill/f3/DIM40−4
Objective Value
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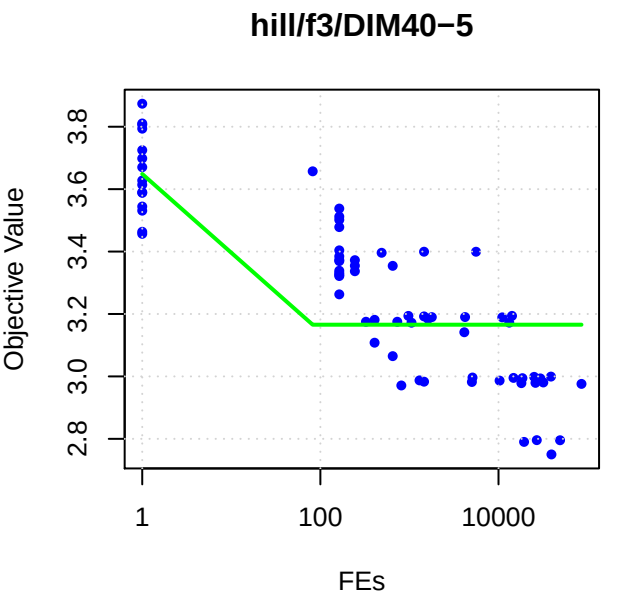
3.0
3.2
3.4
3.6
1
100
10000
FEs


hill/f3/DIM40−5
Objective Value
2.8
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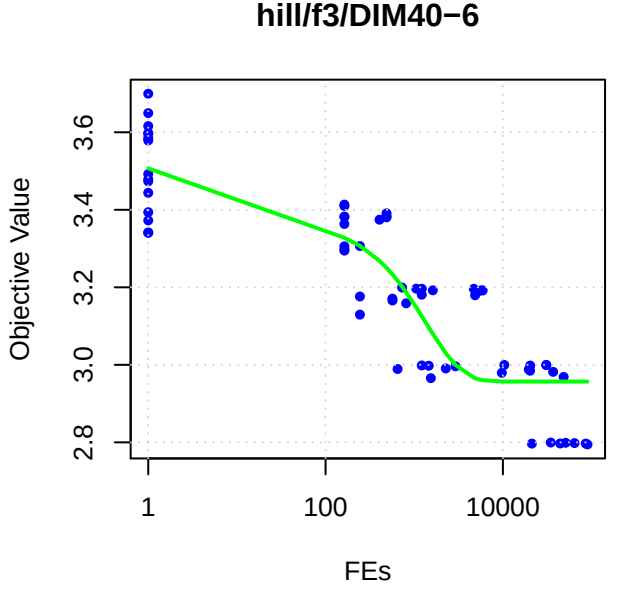
3.2
3.4
3.6
3.8
1
100
10000
FEs


hill/f3/DIM40−6
Objective Value
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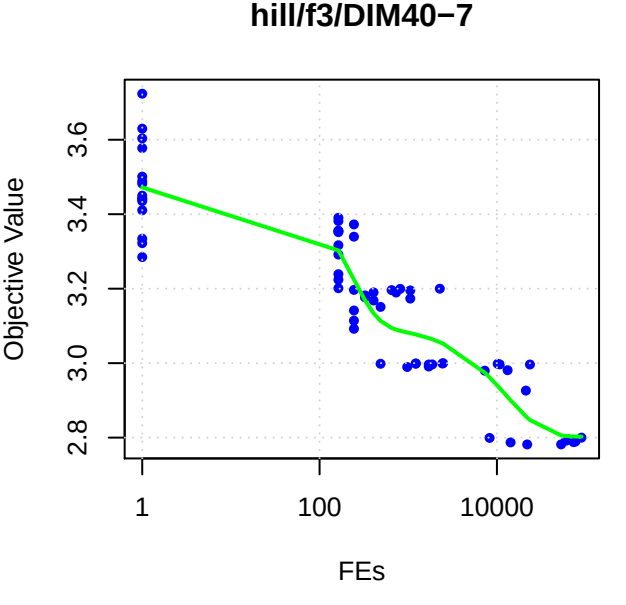
3.0
3.2
3.4
3.6
1
100
10000
FEs


hill/f3/DIM40−7
Objective Value
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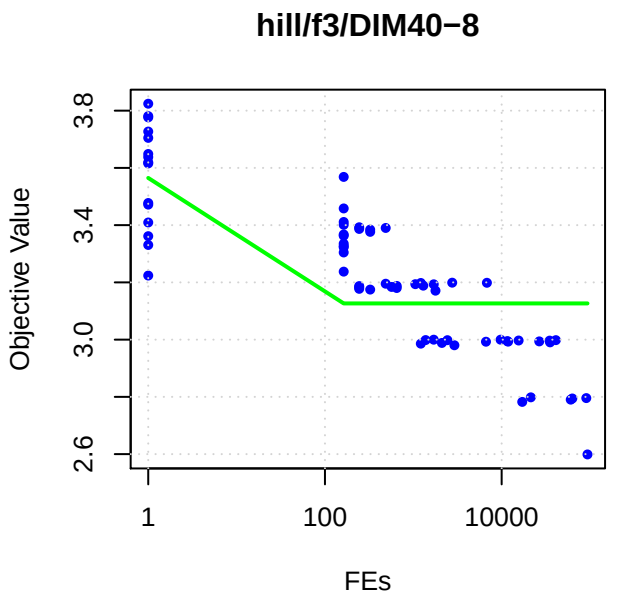
3.0
3.2
3.4
3.6
1
100
10000
FEs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Objective Value
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3.0
2.6
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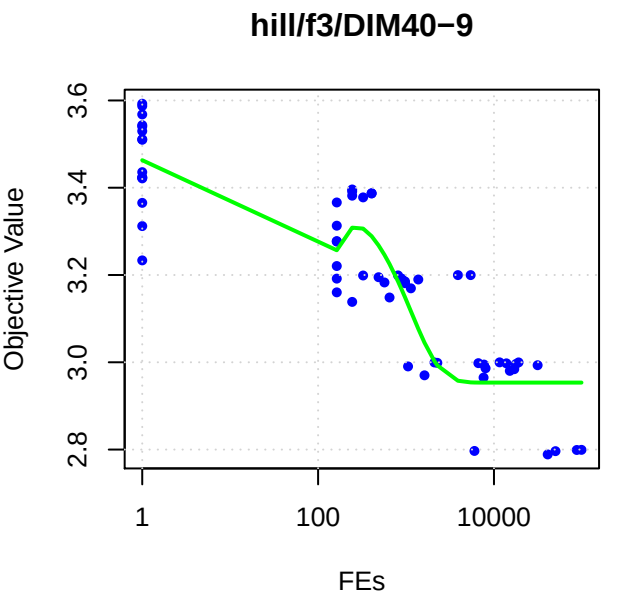
10000
FEs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Objective Value
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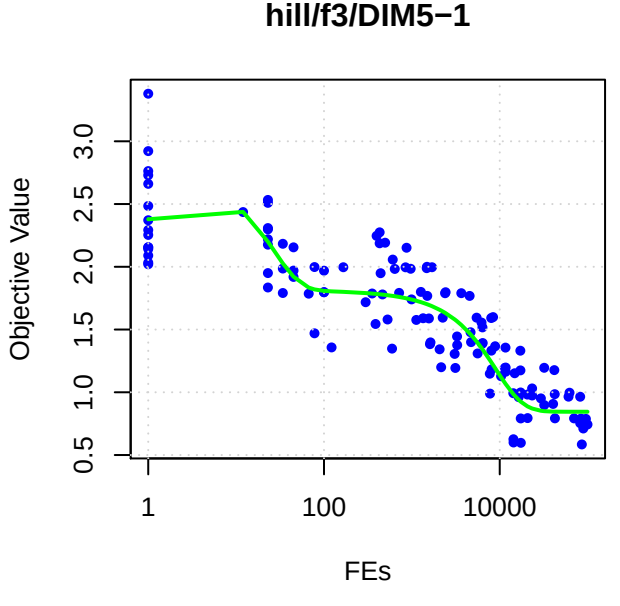
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Objective Value
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1.0
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1
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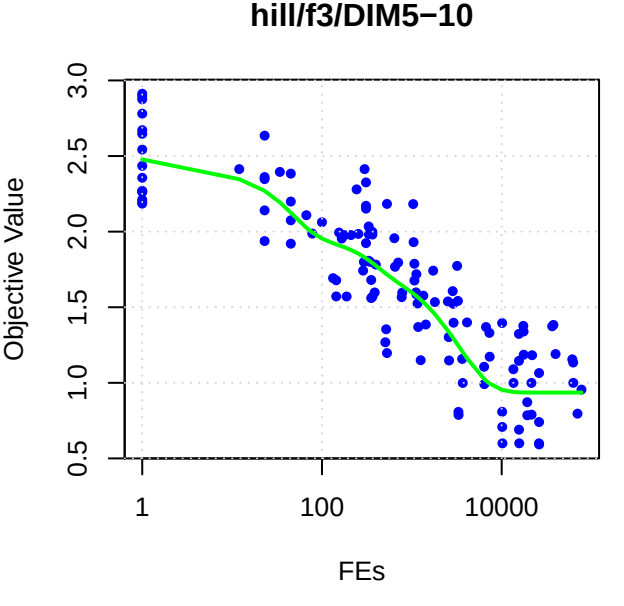
10000
FEs


hill/f3/DIM5−10
Objective Value
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1.0
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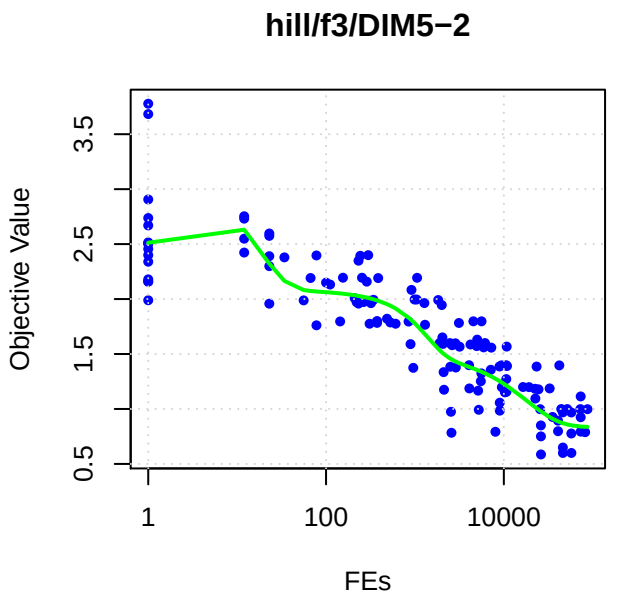
FEs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Objective Value
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2.5
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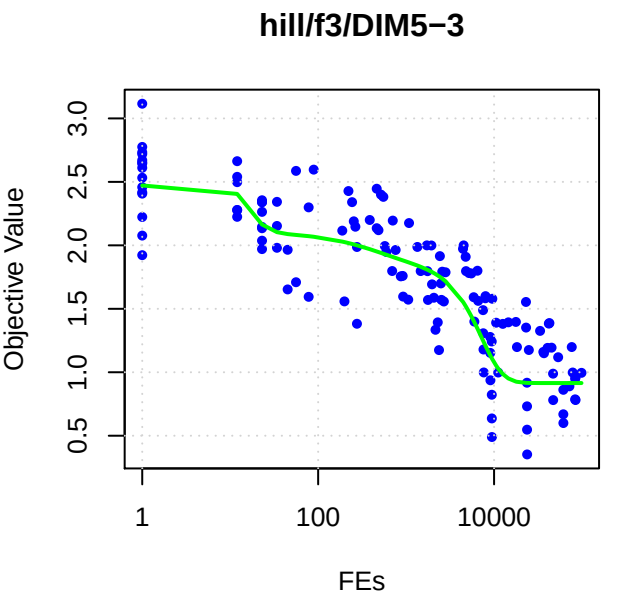
10000
FEs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Objective Value
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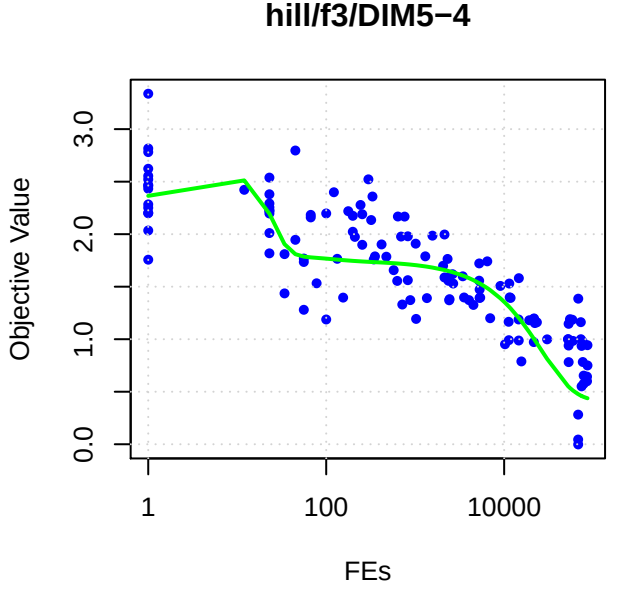
2.0
2.5
3.0
1
100
10000
FEs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Objective Value
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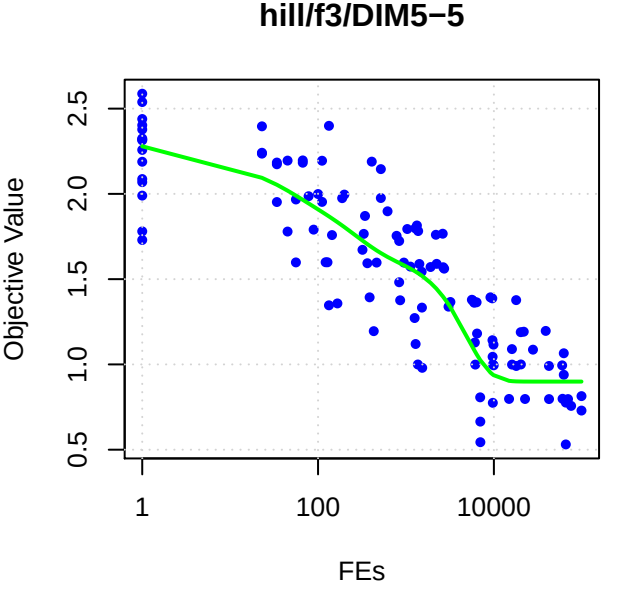
10000
FEs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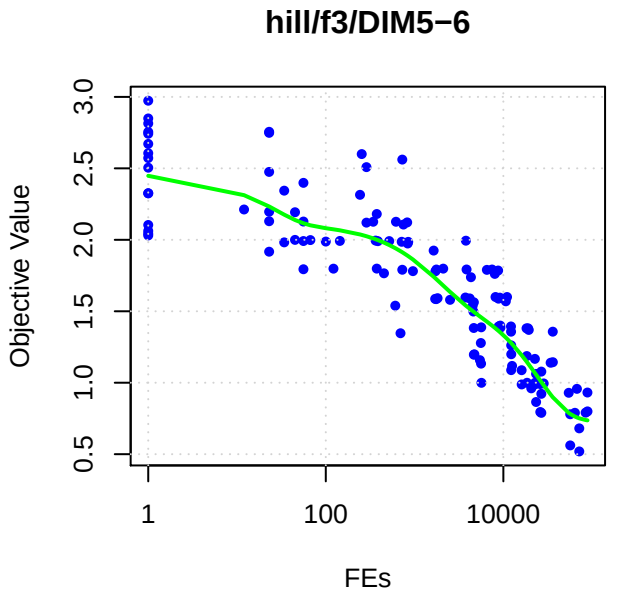
10000
FEs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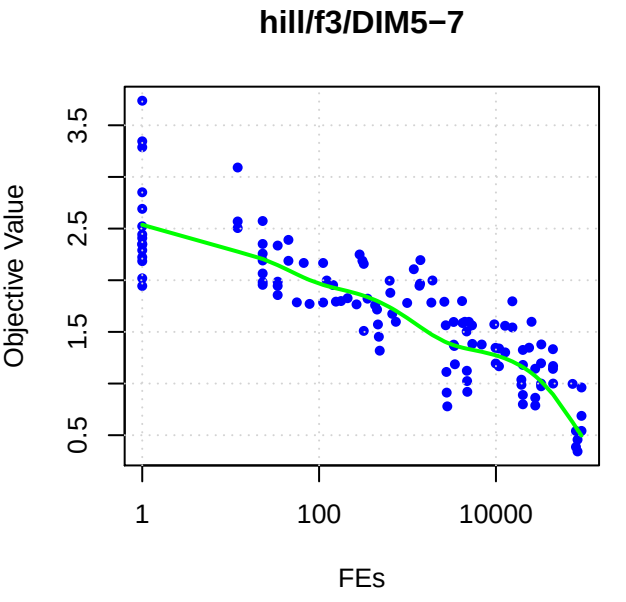
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Objective Value
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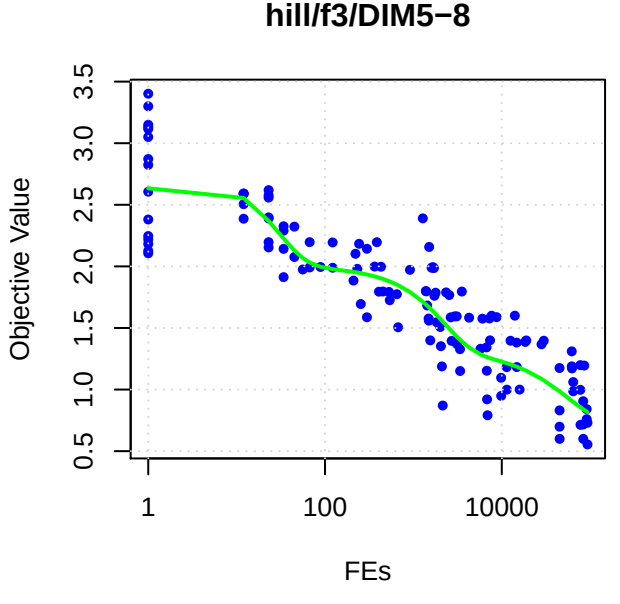
FEs


hill/f3/DIM5−8
Objective Value
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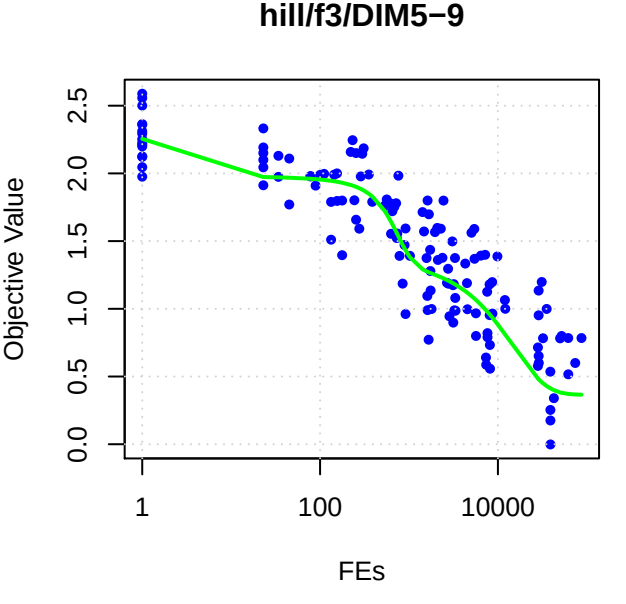
FEs


hill/f3/DIM5−9
Objective Value
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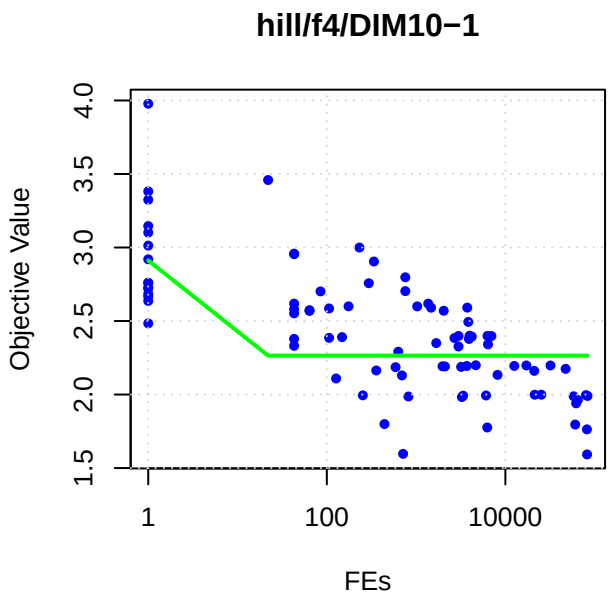
1.5
2.0
2.5
1
100
10000
FEs


hill/f4/DIM10−1
Objective Value
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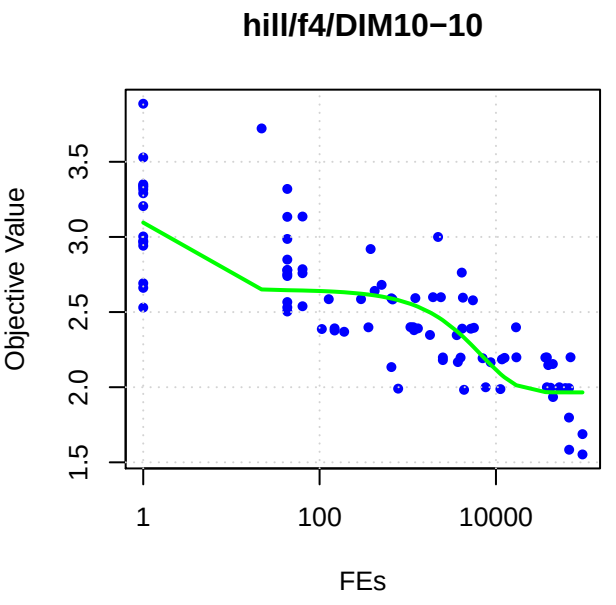
3.0
2.5
2.0
1.5
1
100
10000
FEs


hill/f4/DIM10−10
Objective Value
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2.0
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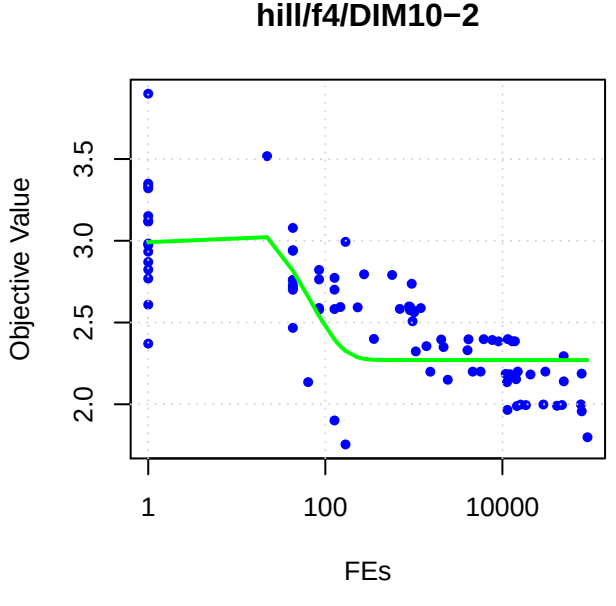
FEs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Objective Value
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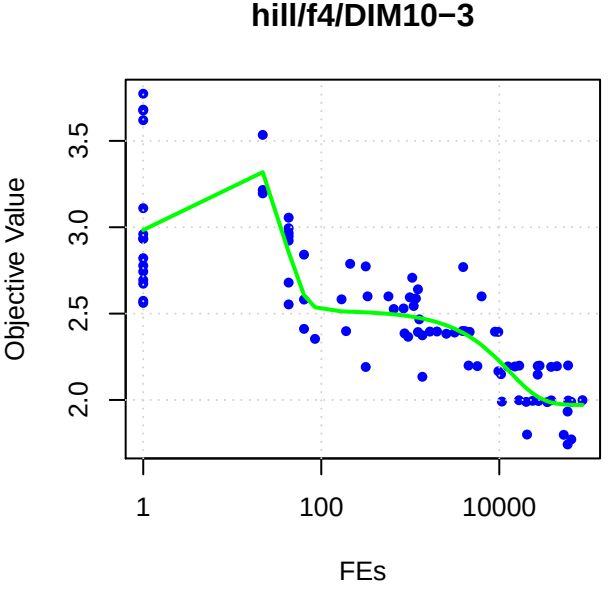
FEs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Objective Value
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2.5
2.0
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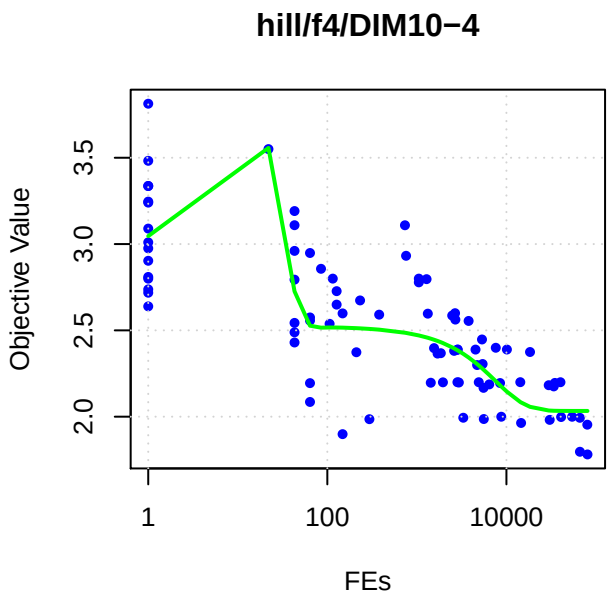
10000
FEs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Objective Value
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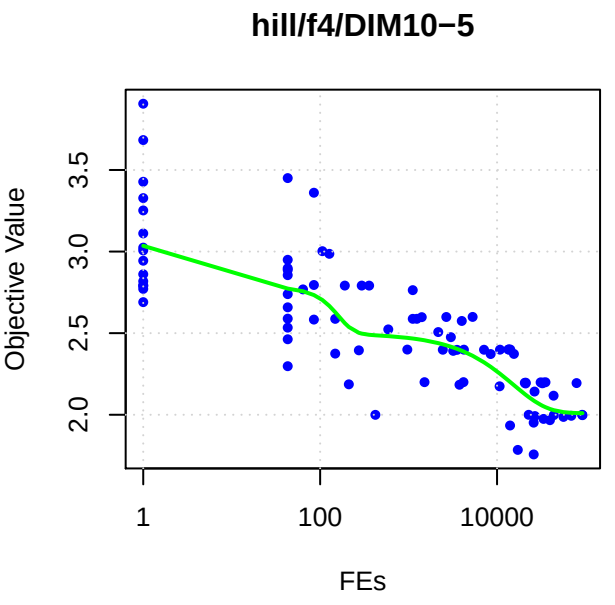
FEs


hill/f4/DIM10−5
Objective Value
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3.5
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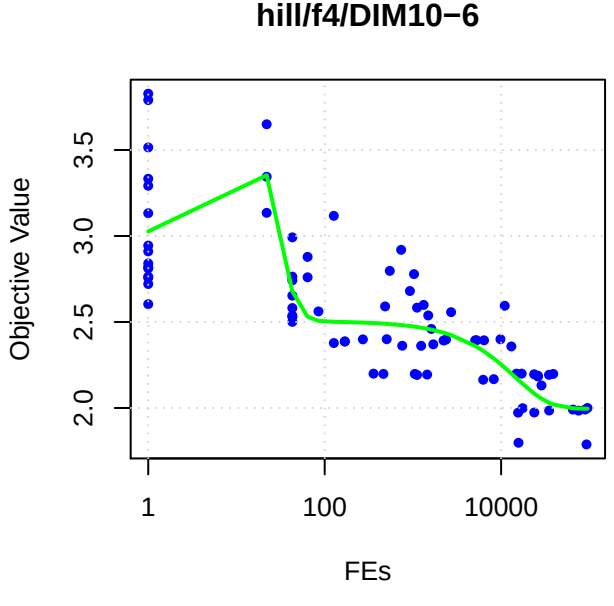
FEs


hill/f4/DIM10−6
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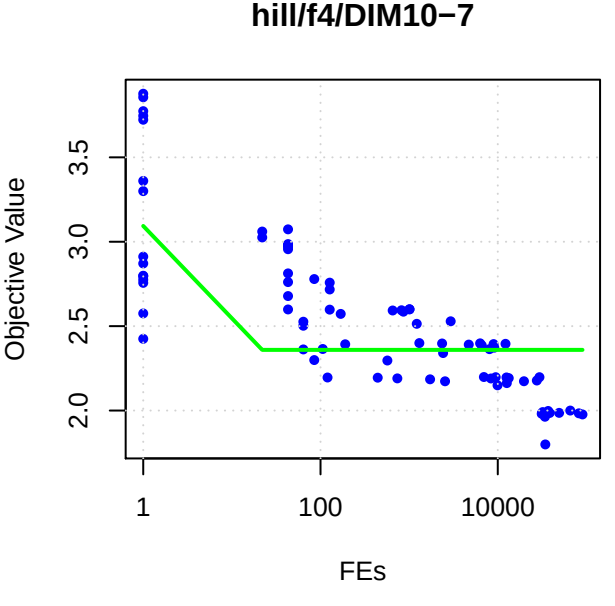
FEs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Objective Value
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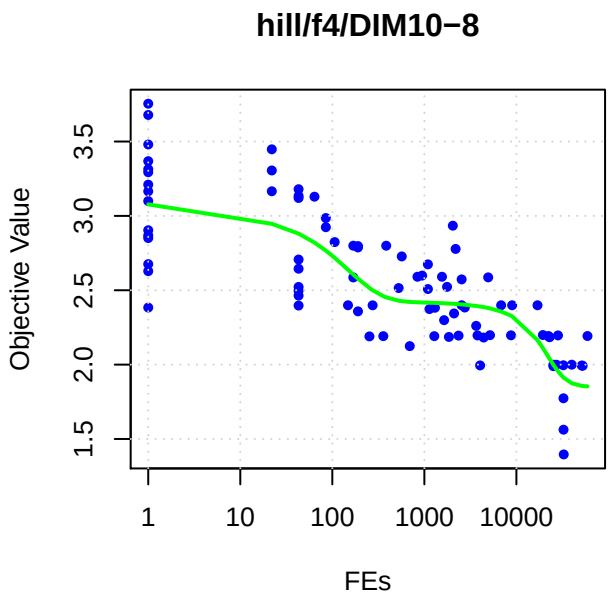
hill/f4/DIM10−8
Objective Value
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1.5
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1000
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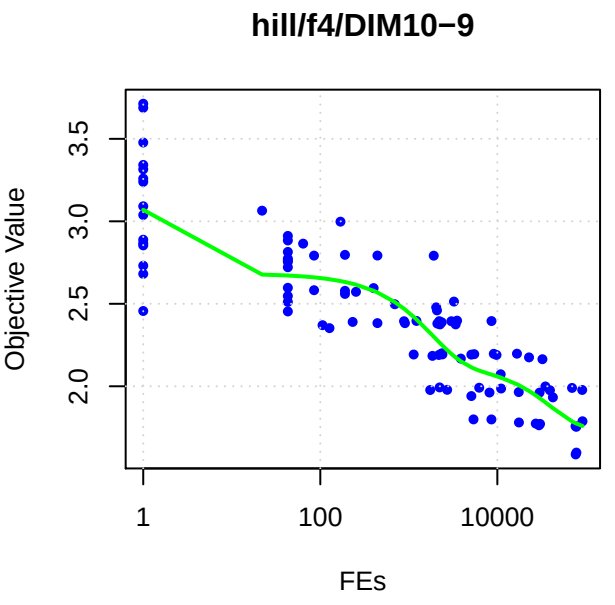
FEs


hill/f4/DIM10−9
Objective Value
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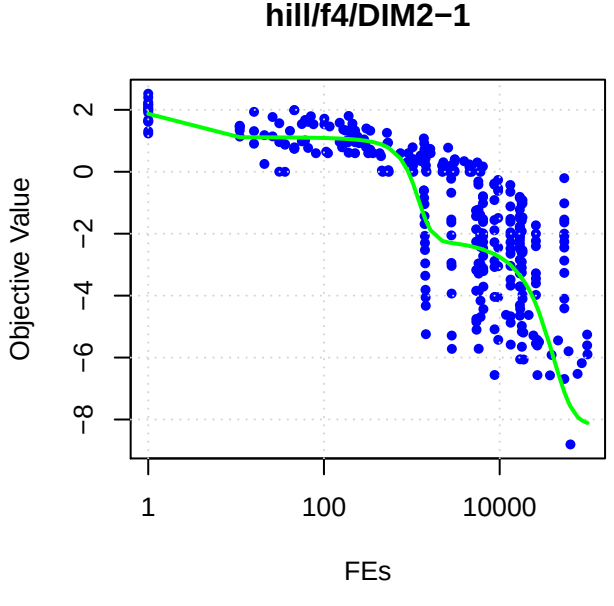
10000
FEs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Objective Value
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−8
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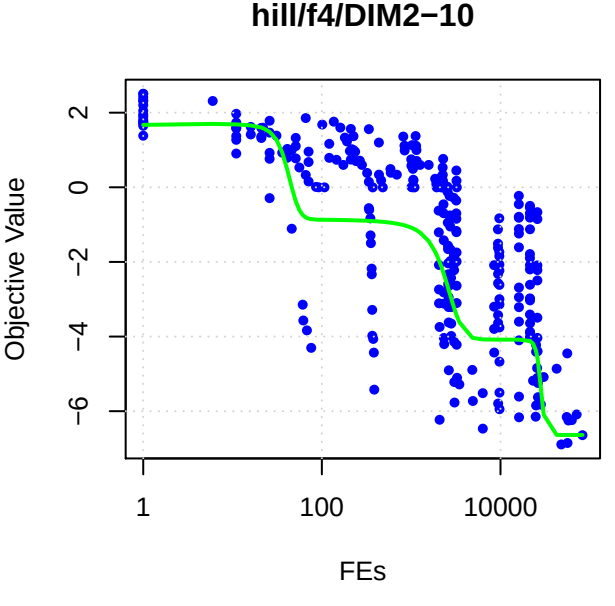
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Objective Value
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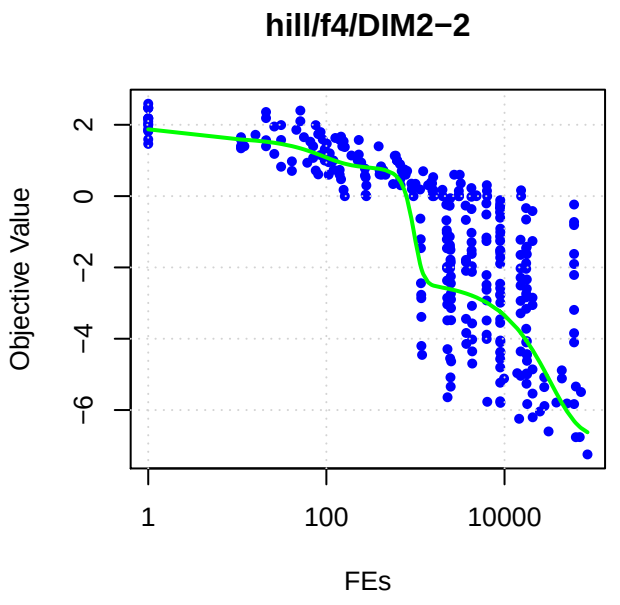
FEs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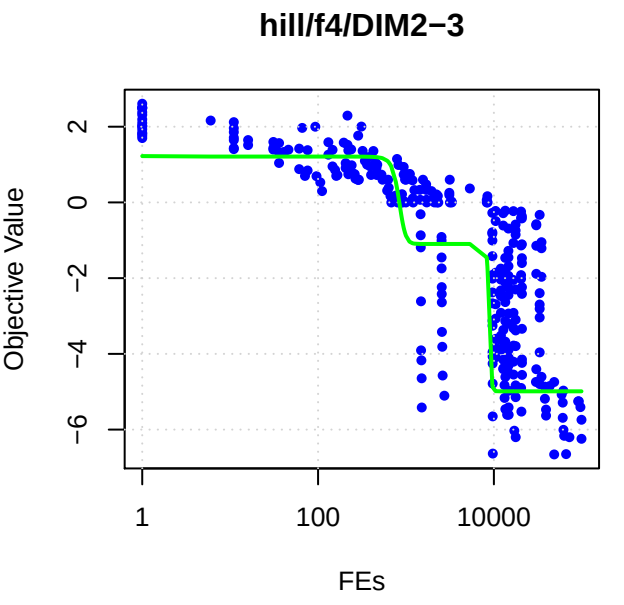
FEs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Objective Value
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−6
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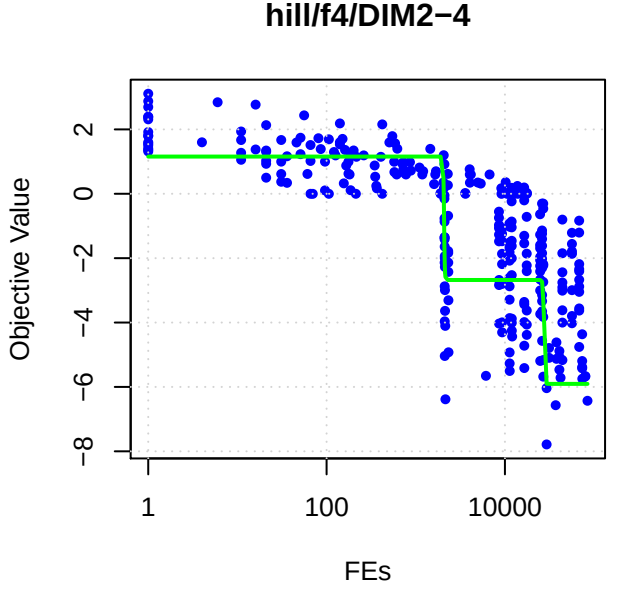
FEs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Objective Value
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−6
−8
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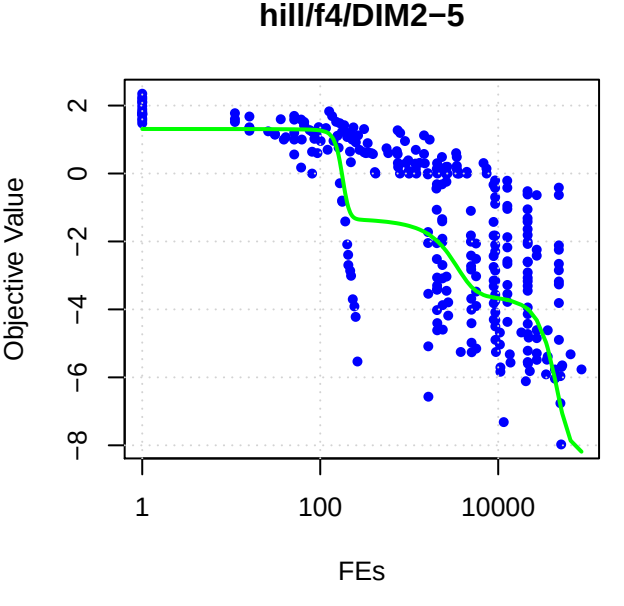
FEs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Objective Value
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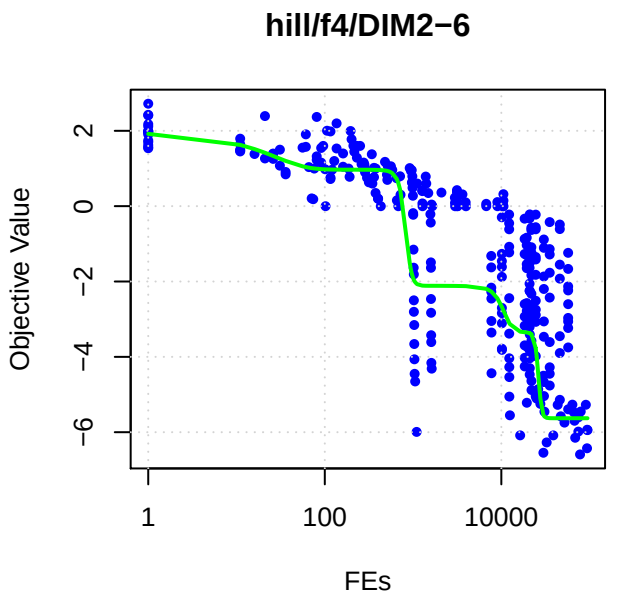
FEs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−6
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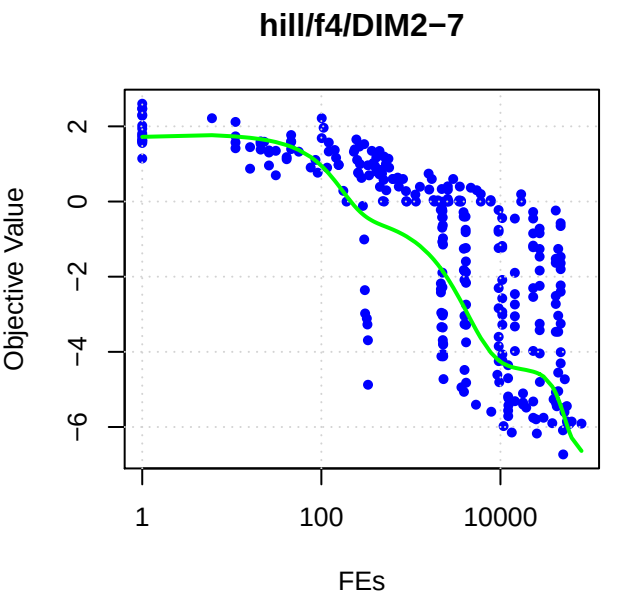
FEs


hill/f4/DIM2−7
Objective Value
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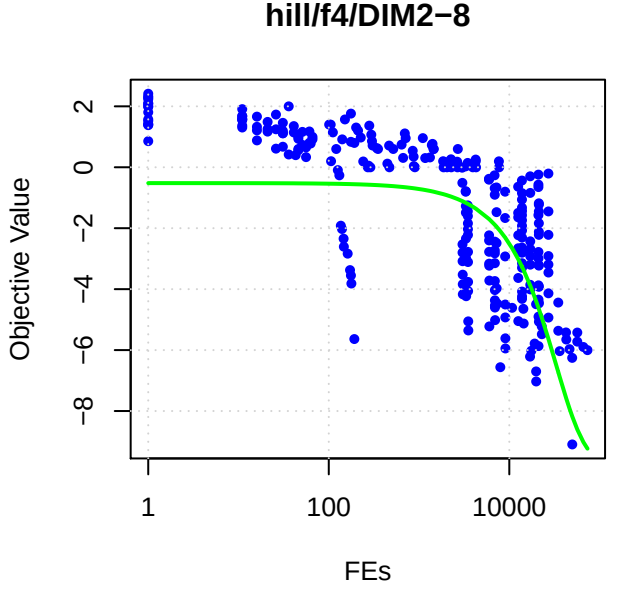
−2
−4
−6
1
100
10000
FEs


hill/f4/DIM2−8
Objective Value
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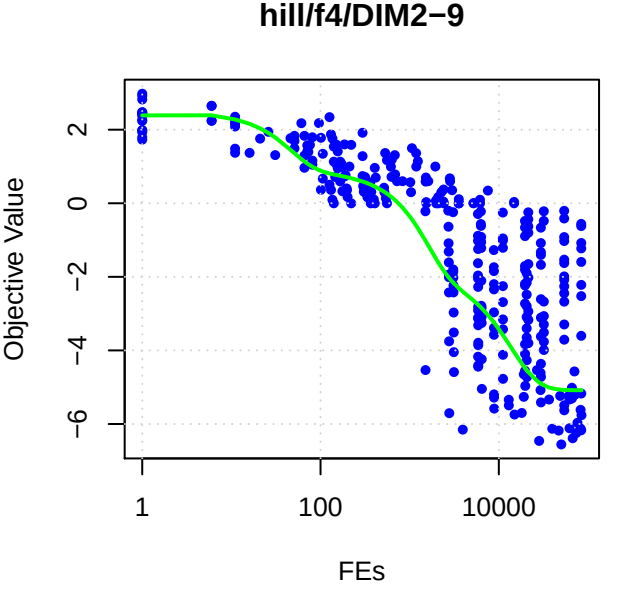
FEs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Objective Value
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−6
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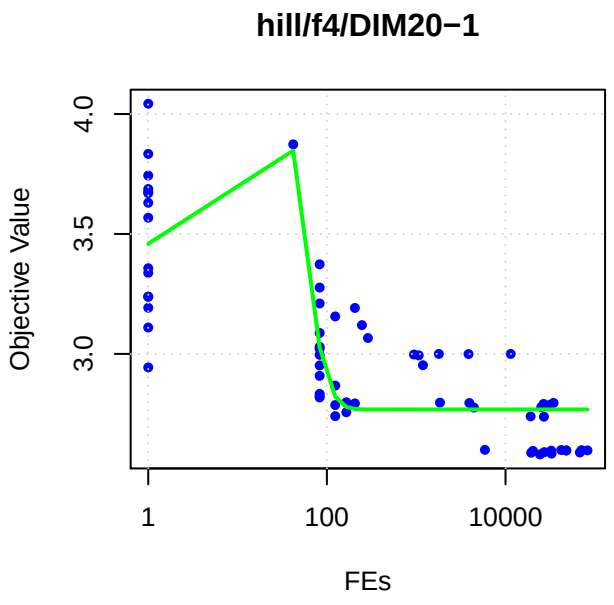
10000
FEs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Objective Value
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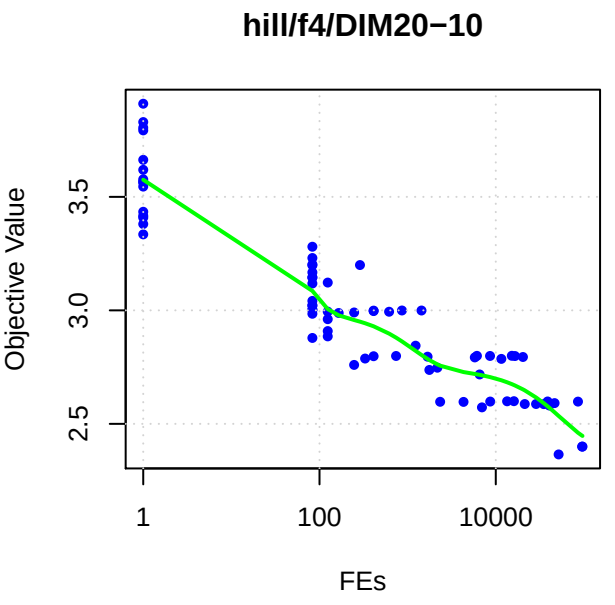
100
10000
FEs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Objective Value
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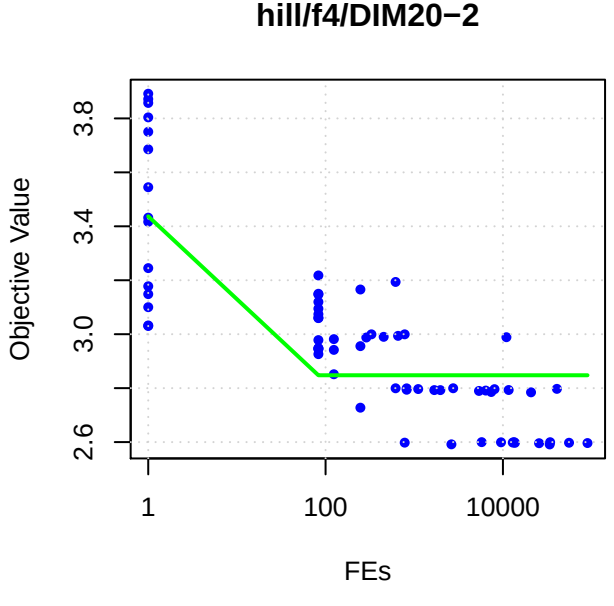
2.5
1
100
10000
FEs


hill/f4/DIM20−2
Objective Value
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1
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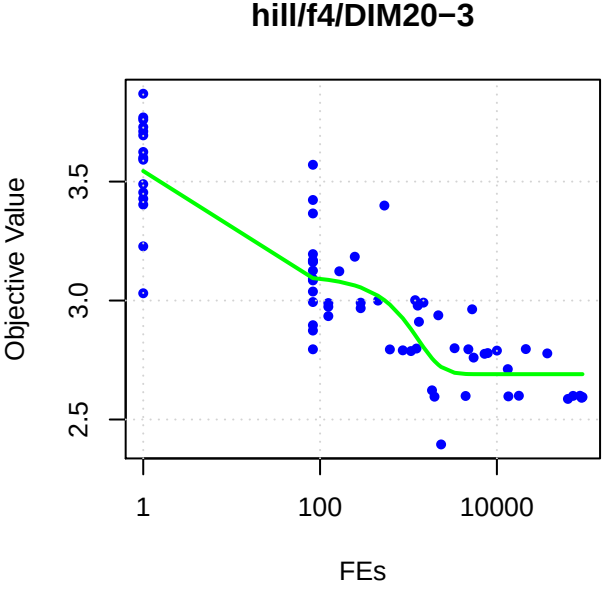
10000
FEs


hill/f4/DIM20−3
Objective Value
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2.5
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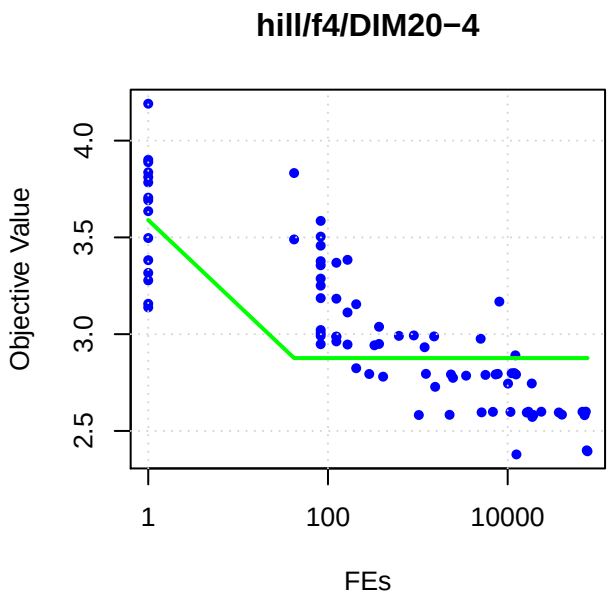
10000
FEs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Objective Value
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3.0
2.5
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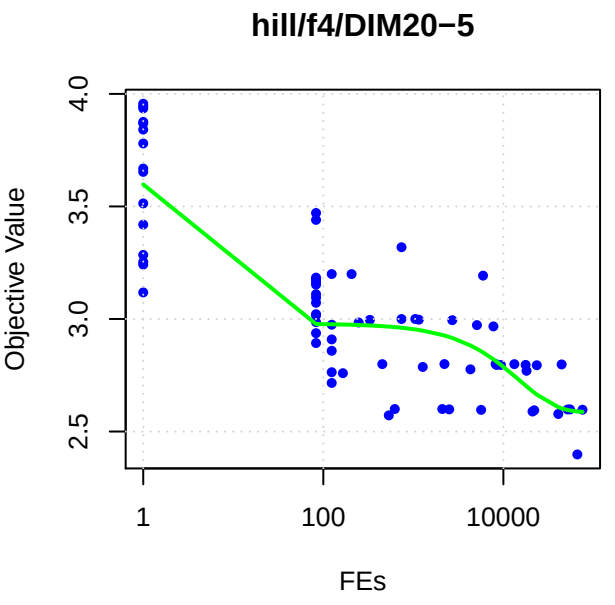
10000
FEs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Objective Value
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3.0
2.5
1
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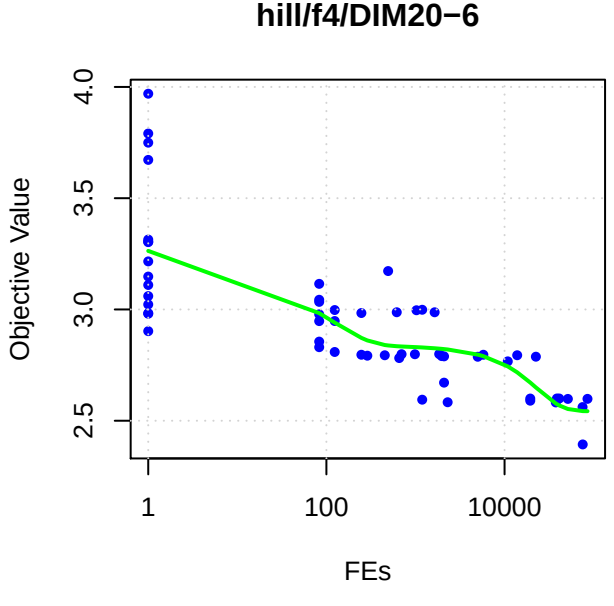
10000
FEs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Objective Value
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2.5
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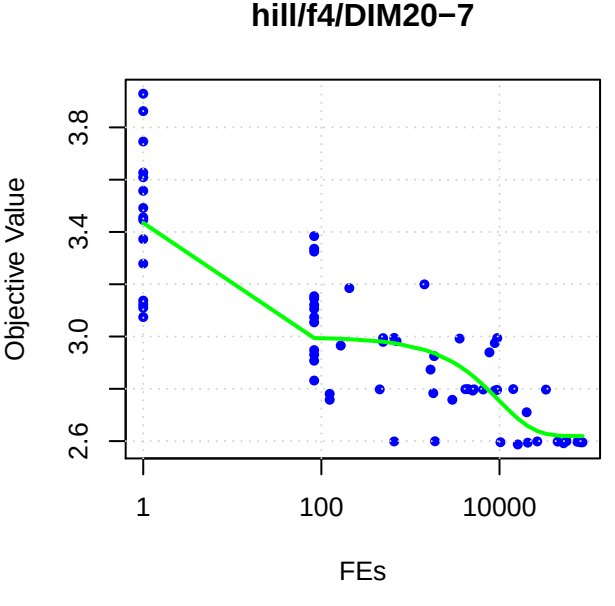
10000
FEs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Objective Value
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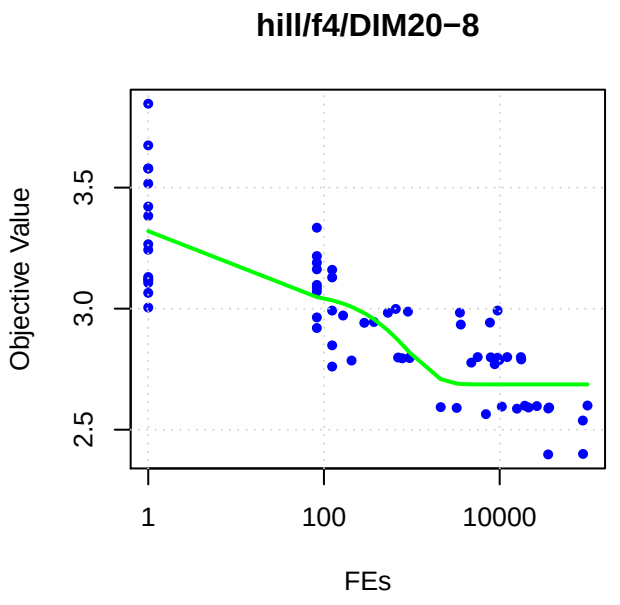
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Objective Value
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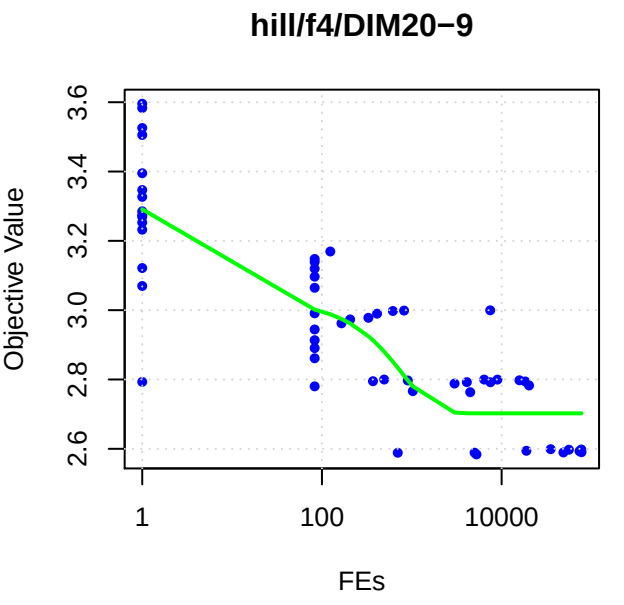
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Objective Value
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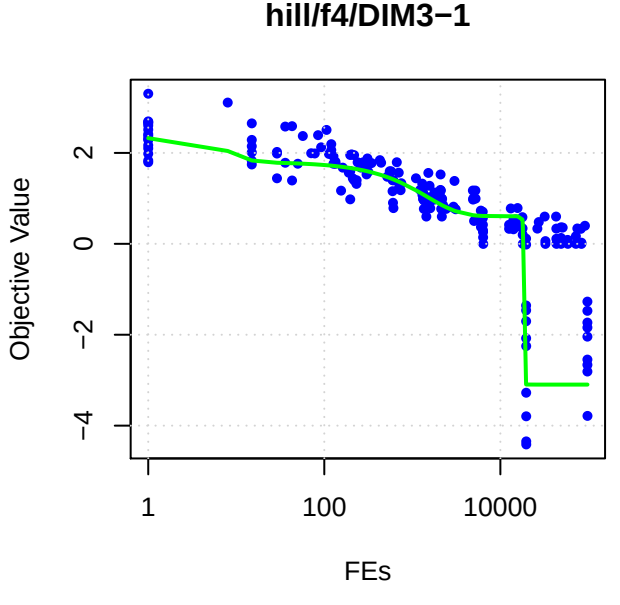
FEs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Objective Value
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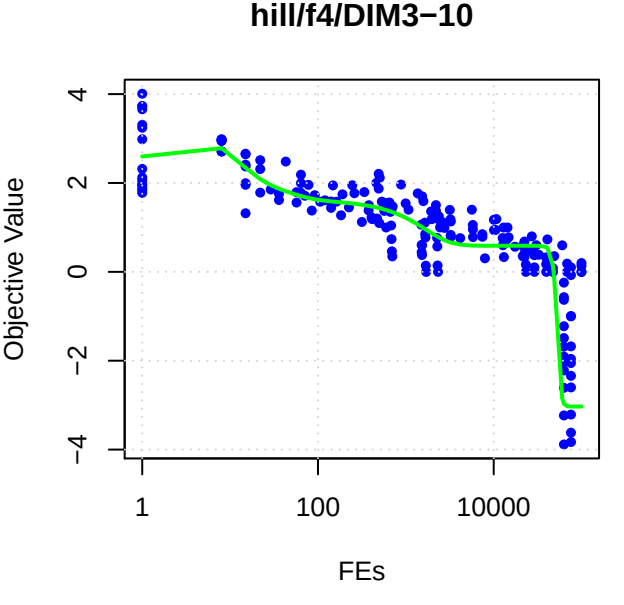
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Objective Value
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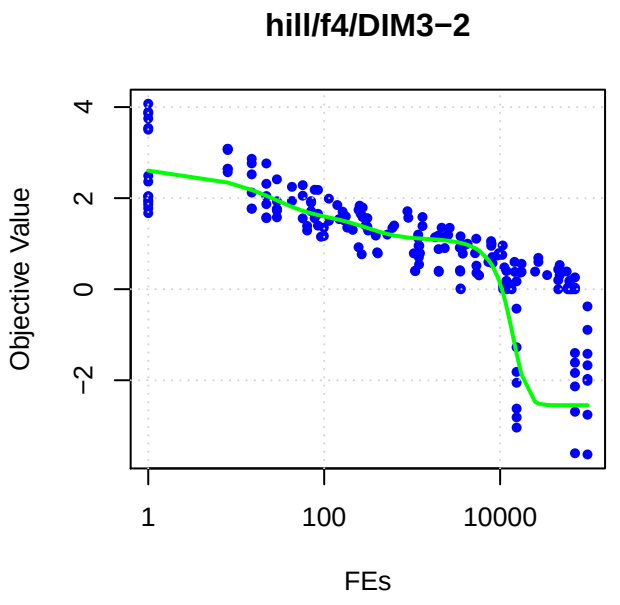
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Objective Value
FEs
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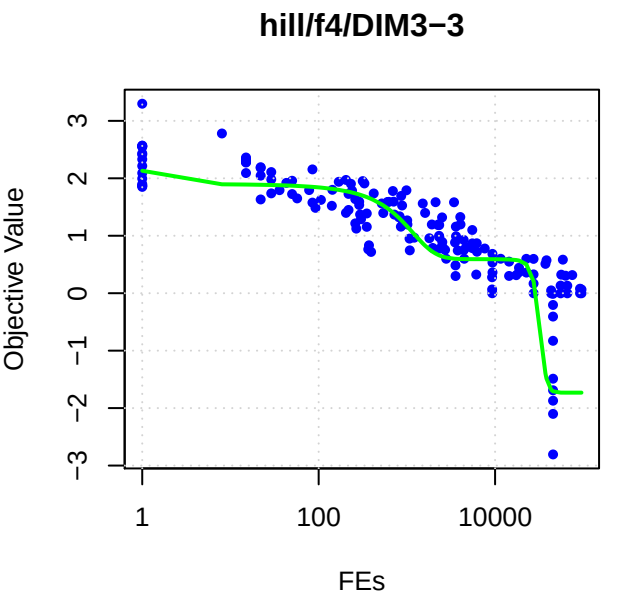
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Objective Value
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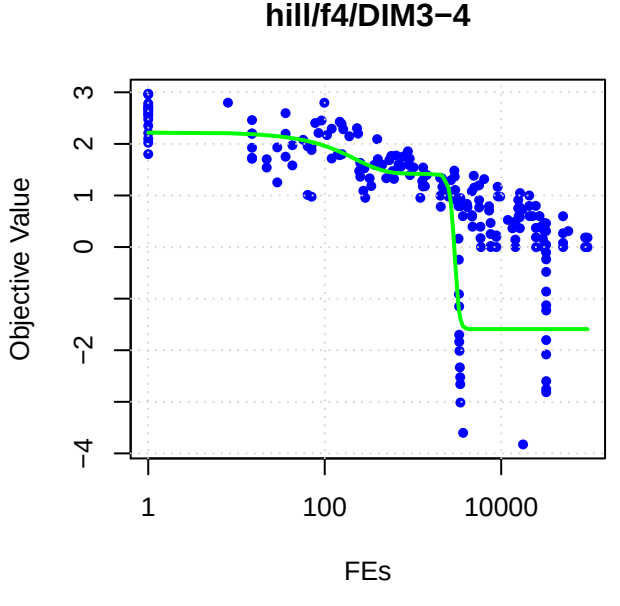
−3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Objective Value
FEs
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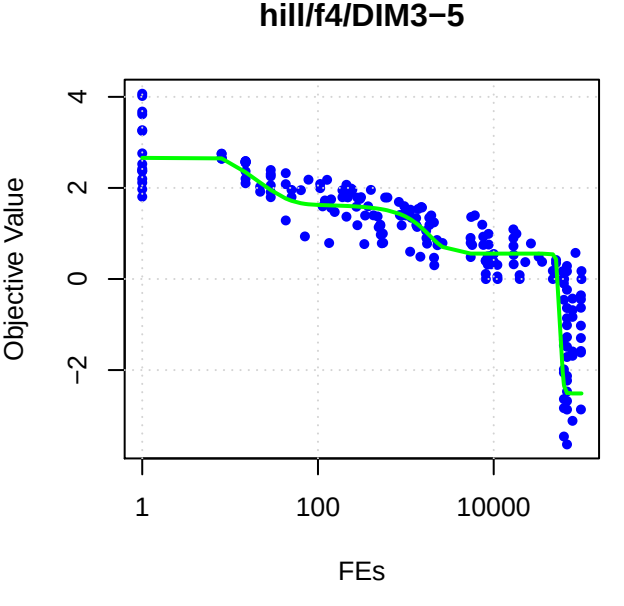
−4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Objective Value
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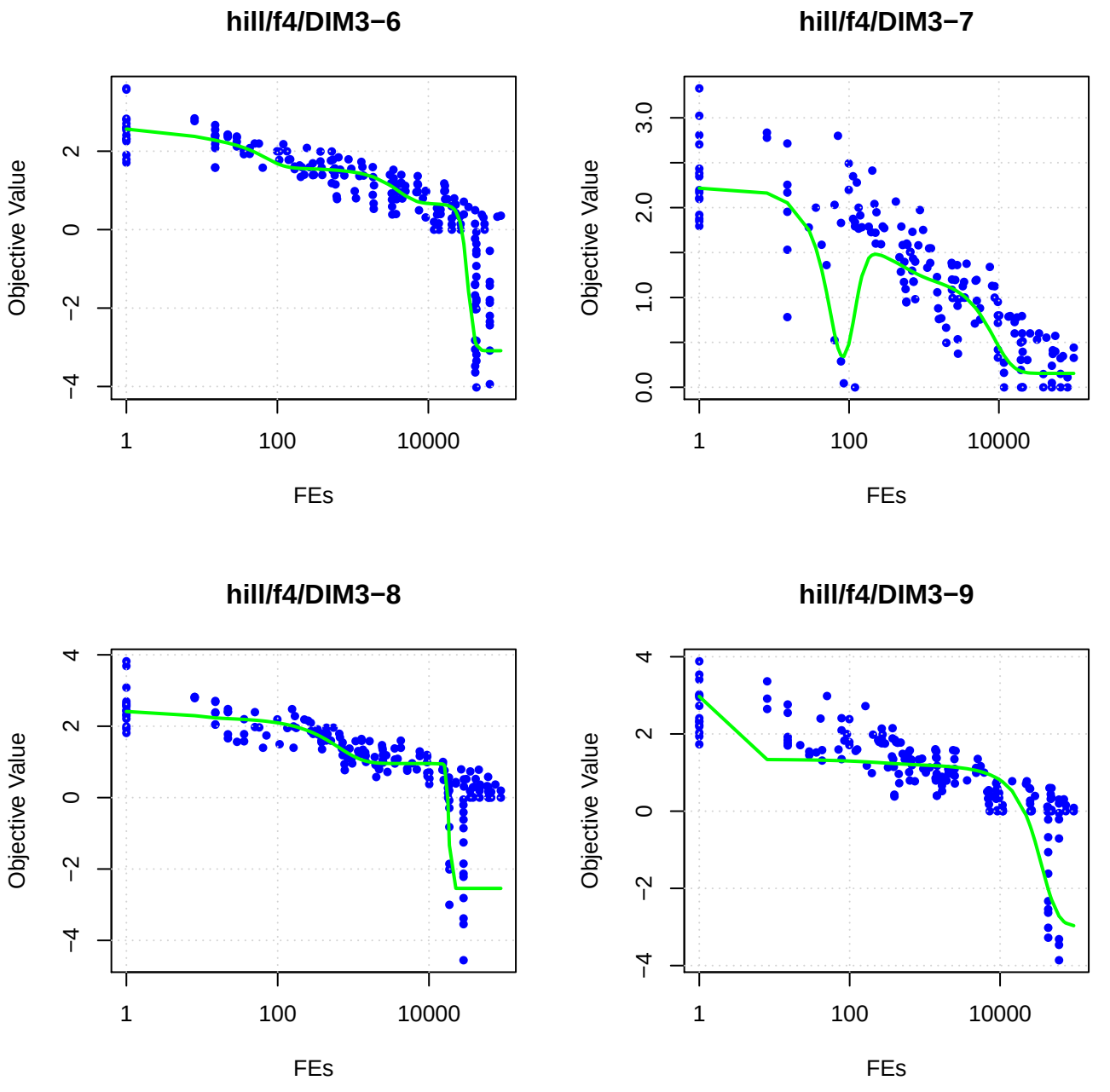
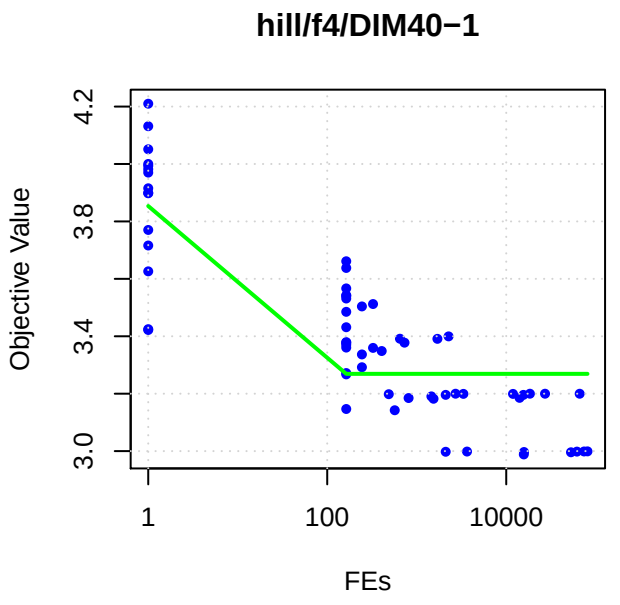
0
−2


hill/f4/DIM3−6
Objective Value
FEs
hill/f4/DIM3−7
Objective Value
FEs
hill/f4/DIM3−8
Objective Value
FEs
hill/f4/DIM3−9
Objective Value
FEs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Objective Value
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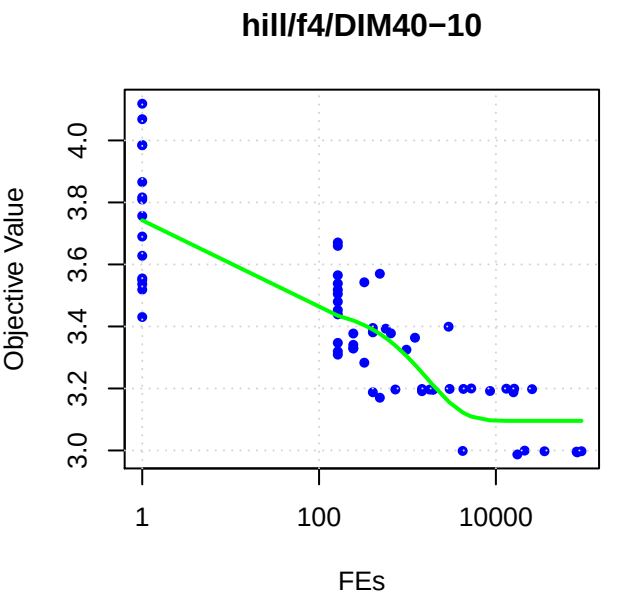
10000
FEs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Objective Value
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3.6
3.8
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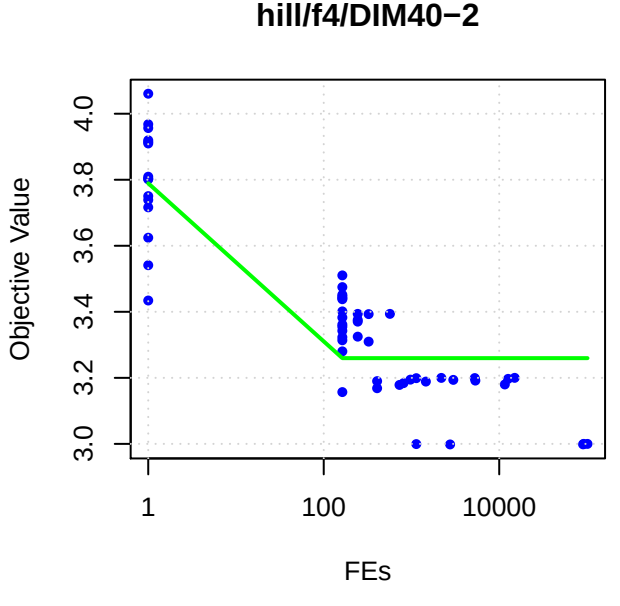
10000
FEs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Objective Value
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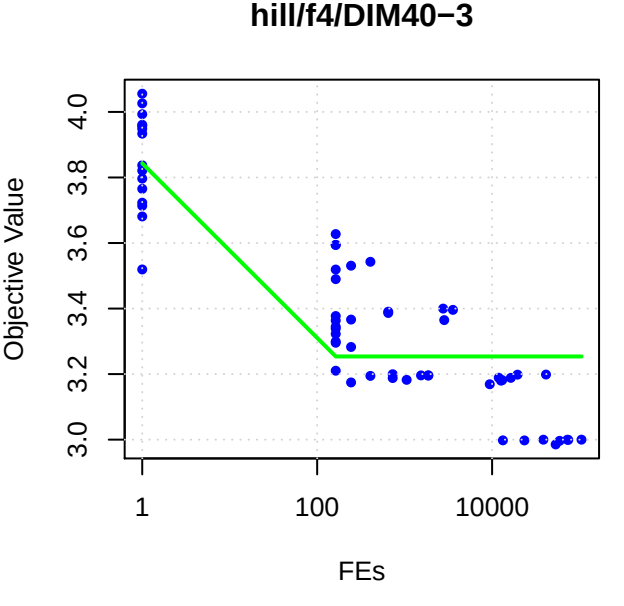
FEs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Objective Value
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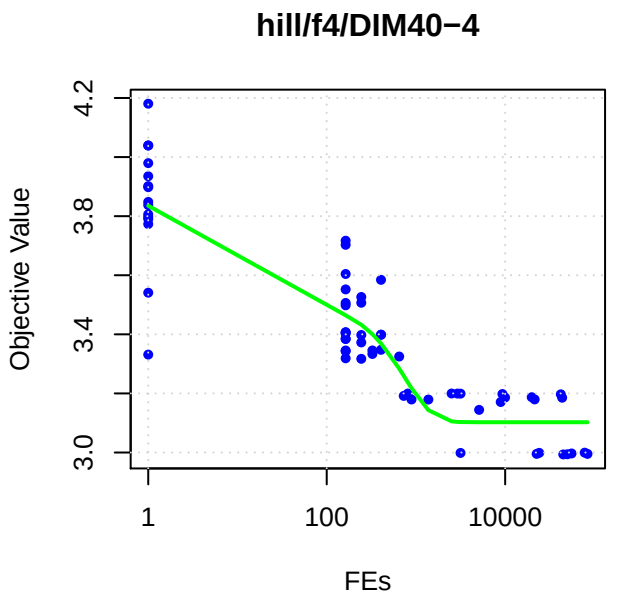
FEs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Objective Value
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3.8
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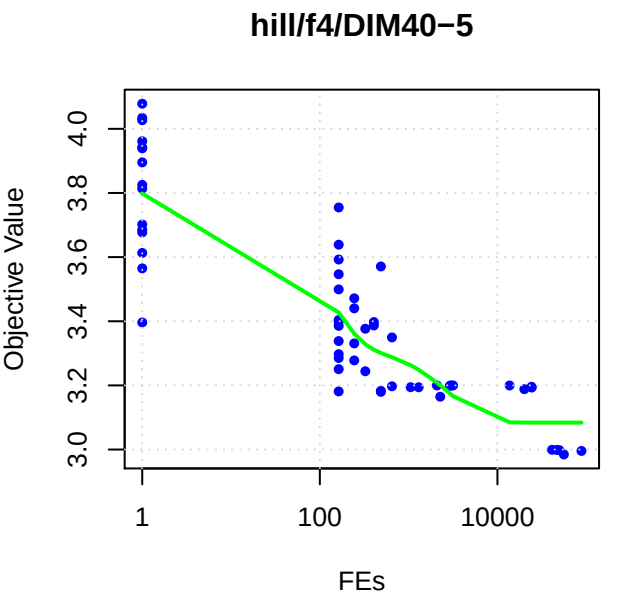
10000
FEs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Objective Value
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3.8
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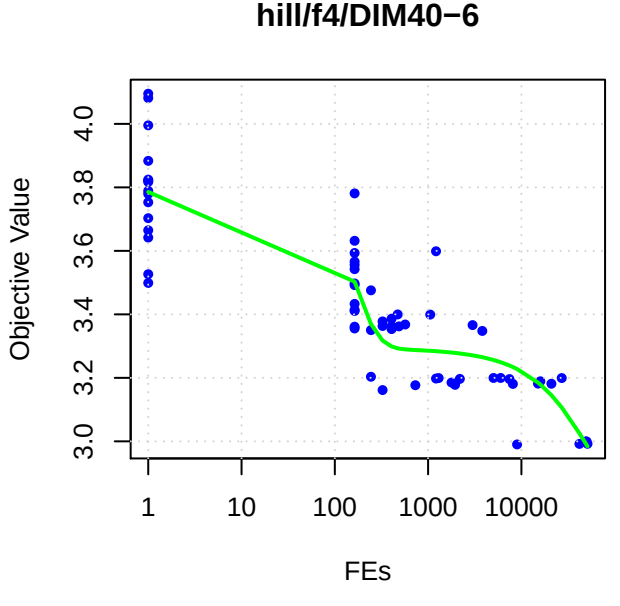
10000
FEs


hill/f4/DIM40−6
Objective Value
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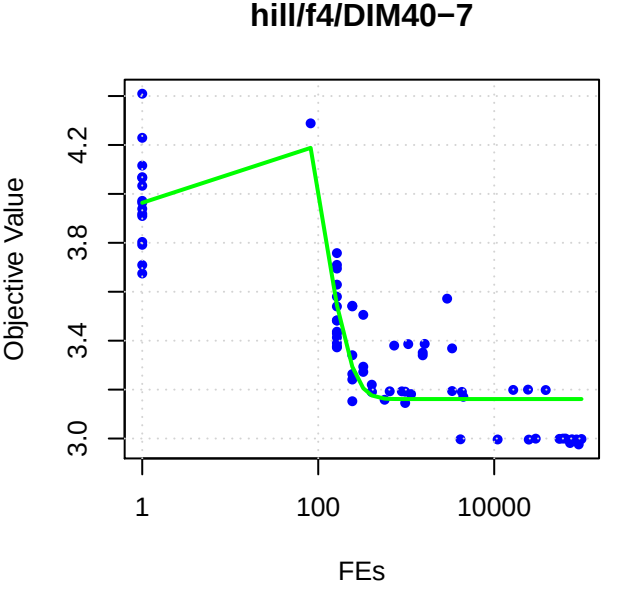
FEs


hill/f4/DIM40−7
Objective Value
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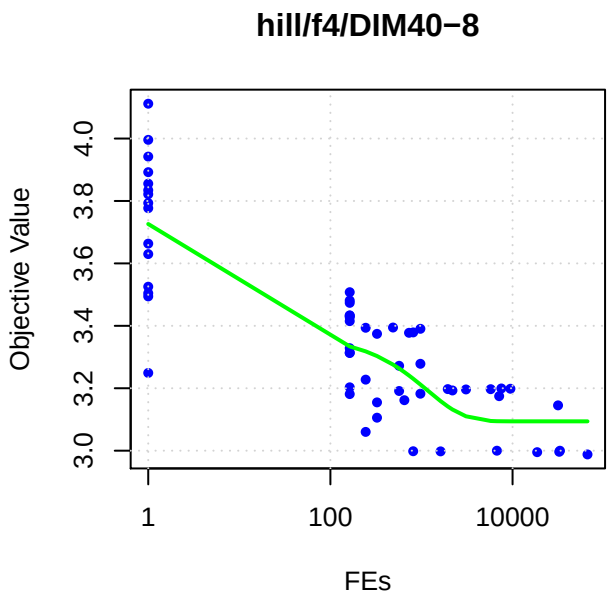
FEs


hill/f4/DIM40−8
Objective Value
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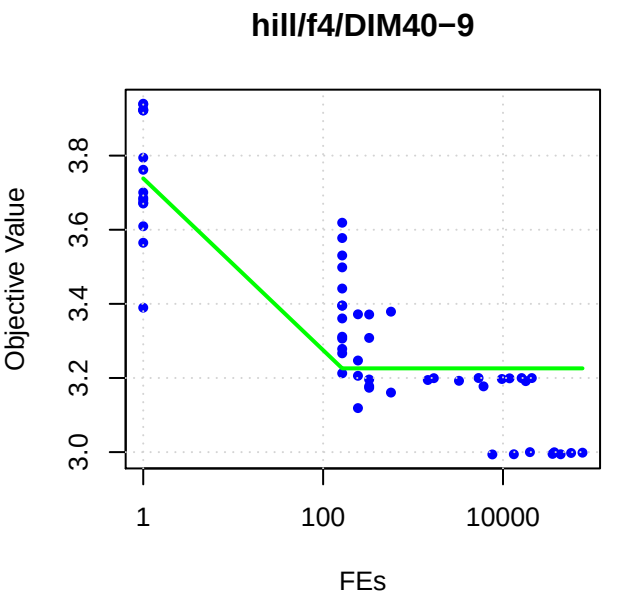
hill/f4/DIM40−9
Objective Value
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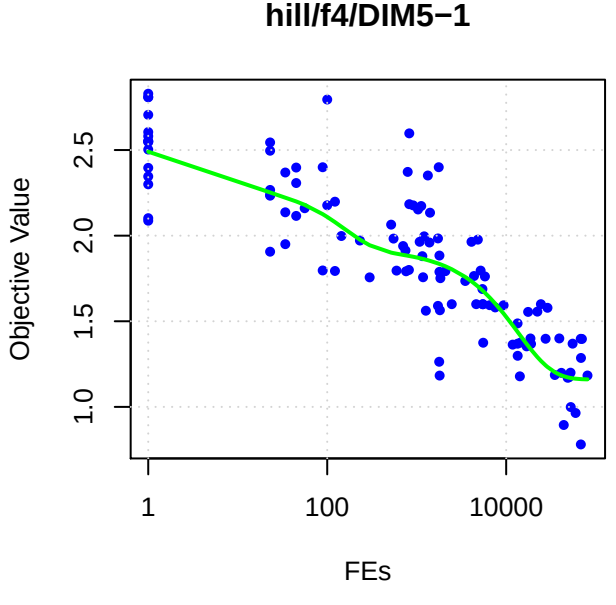
hill/f4/DIM5−1
Objective Value
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1.5
2.0
2.5
1
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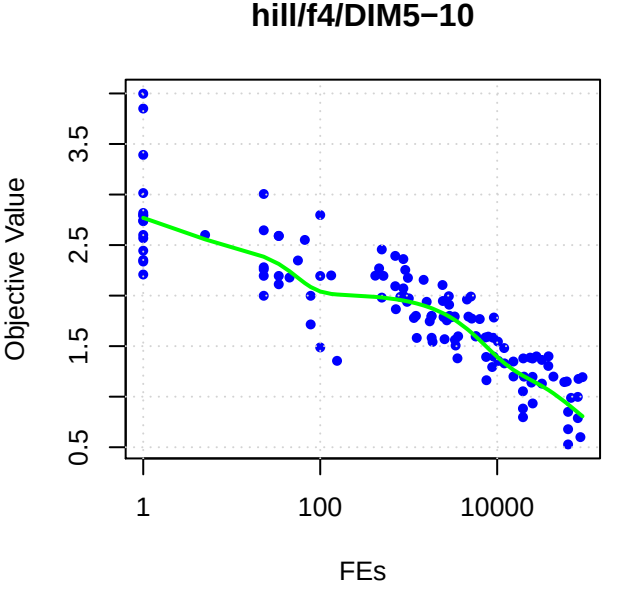
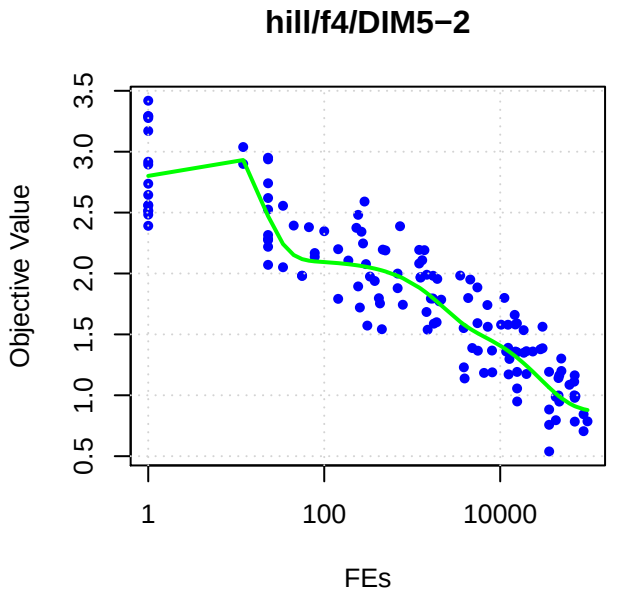
10000
FEs


hill/f4/DIM5−10
Objective Value
0.5
1.5
2.5
3.5
1
100
10000
FEs


hill/f4/DIM5−2
Objective Value
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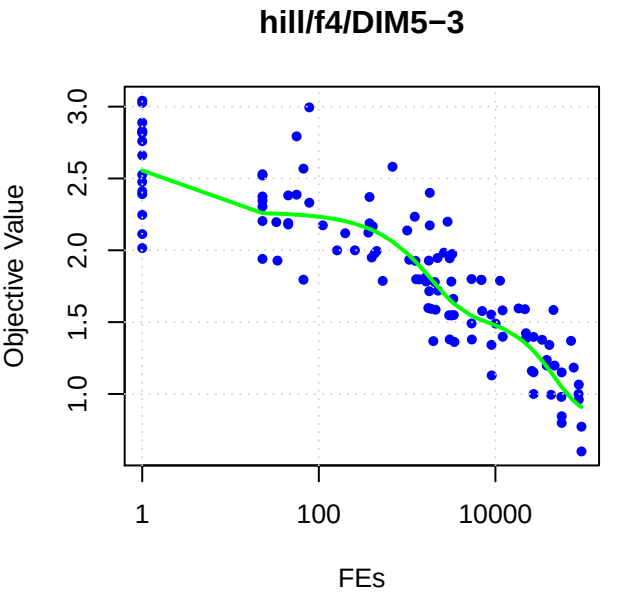
1.5
2.0
2.5
3.0
3.5
1
100
10000
FEs


hill/f4/DIM5−3
Objective Value
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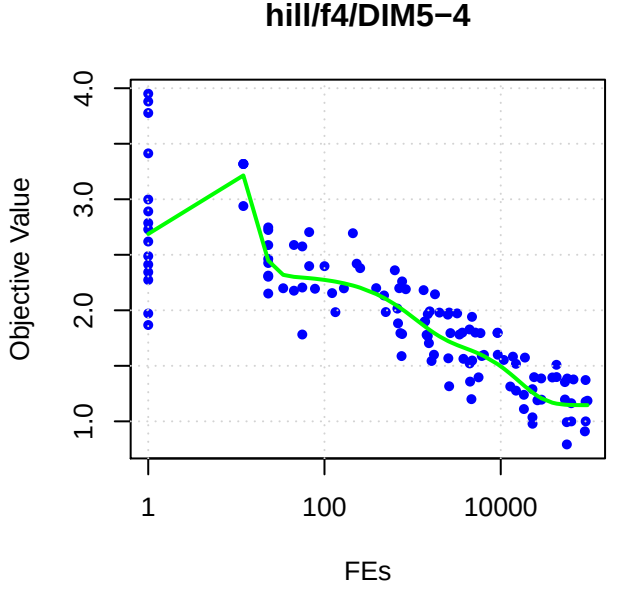
1.5
2.0
2.5
3.0
1
100
10000
FEs


hill/f4/DIM5−4
Objective Value
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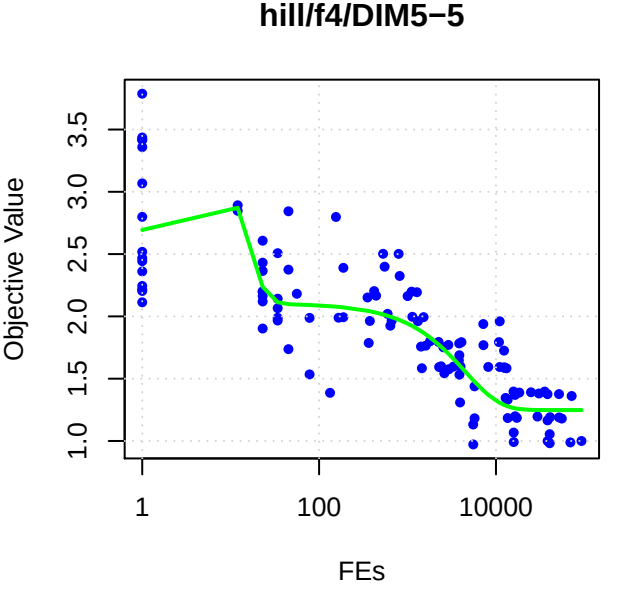
3.0
4.0
1
100
10000
FEs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Objective Value
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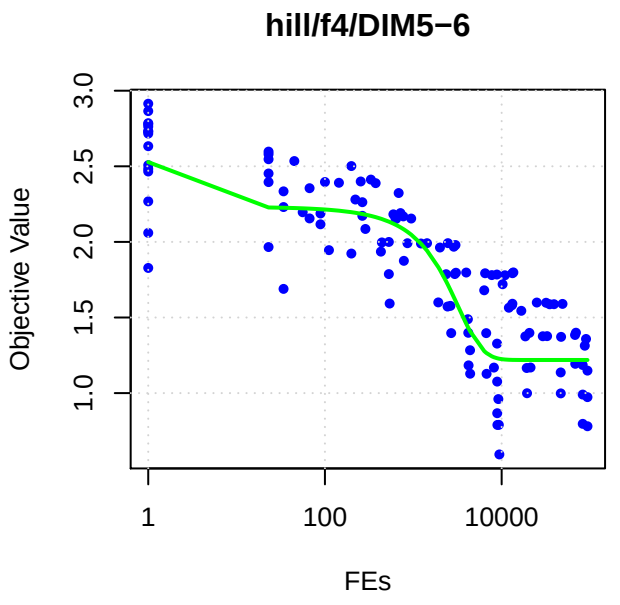
2.0
2.5
3.0
3.5
1
100
10000
FEs


hill/f4/DIM5−6
Objective Value
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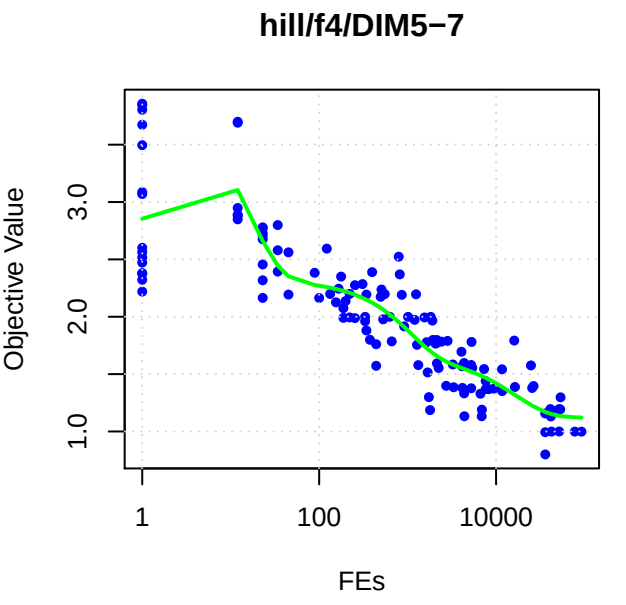
2.0
1.5
1.0
1
100
10000
FEs


hill/f4/DIM5−7
Objective Value
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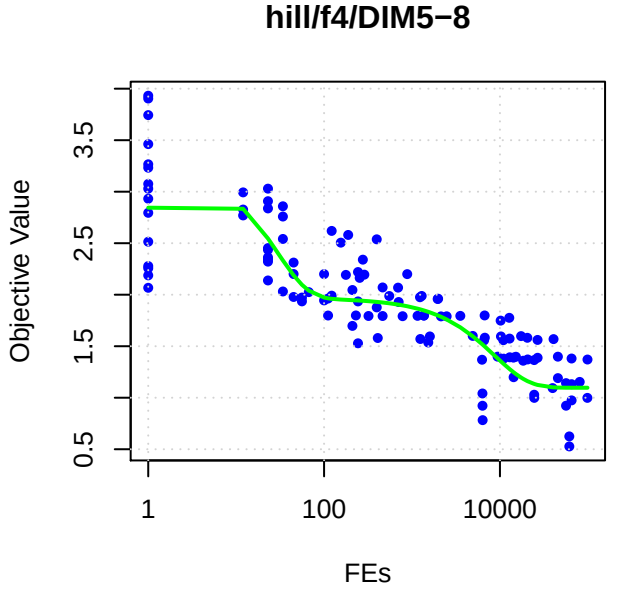
2.0
1.0
1
100
10000
FEs


hill/f4/DIM5−8
Objective Value
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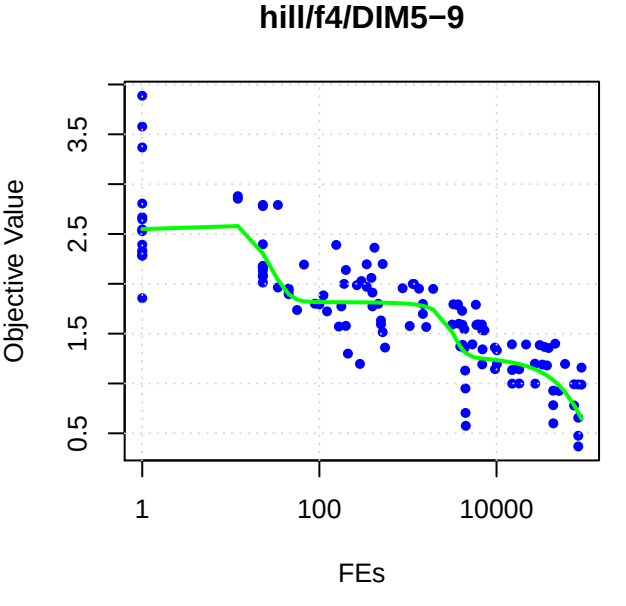
2.5
1.5
0.5
1
100
10000
FEs


hill/f4/DIM5−9
Objective Value
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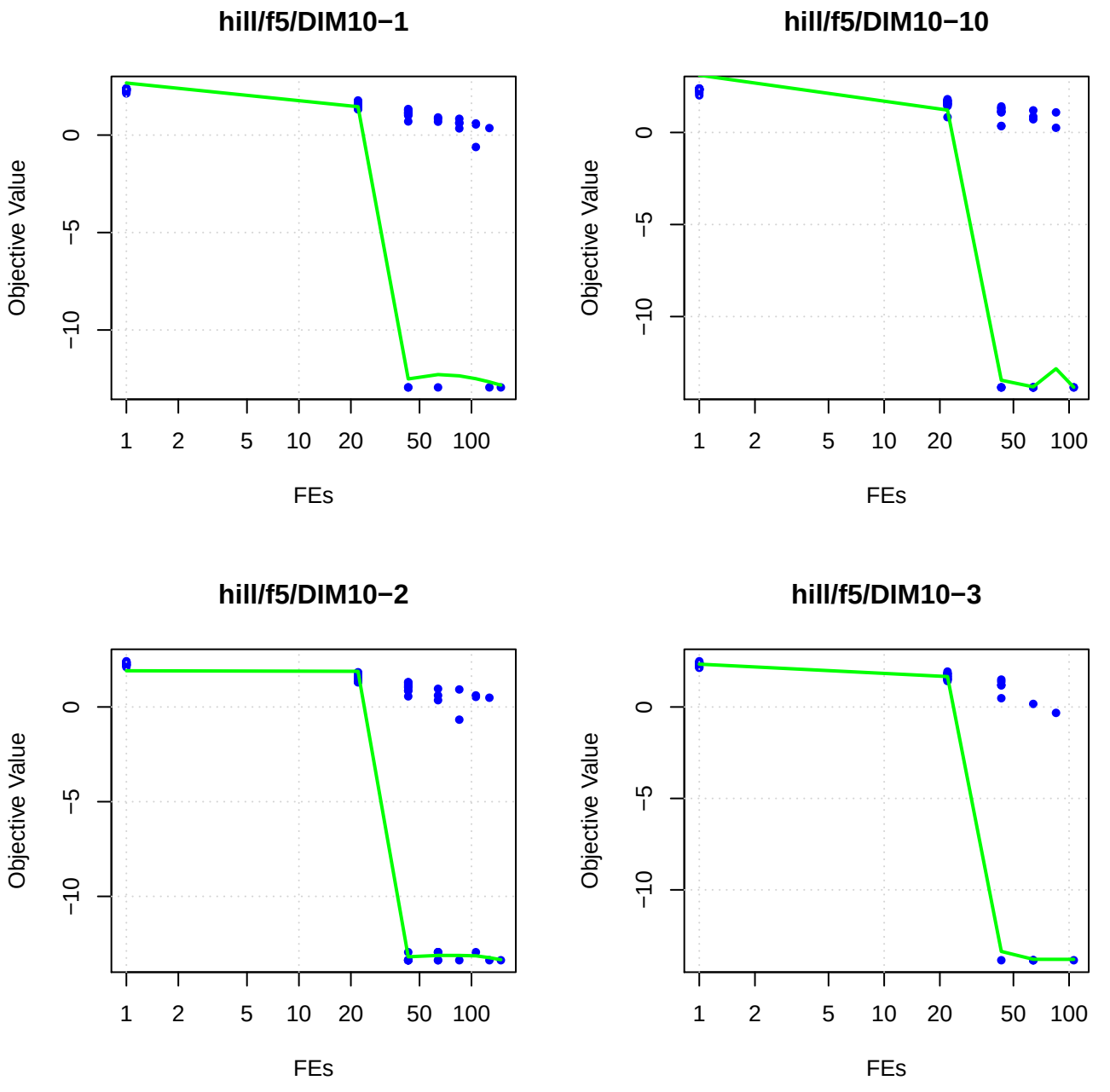
1.5
0.5
1
100
10000
FEs


hill/f5/DIM10−1
hill/f5/DIM10−10
hill/f5/DIM10−2
hill/f5/DIM10−3
Objective Value
0
−5
−10
1
2
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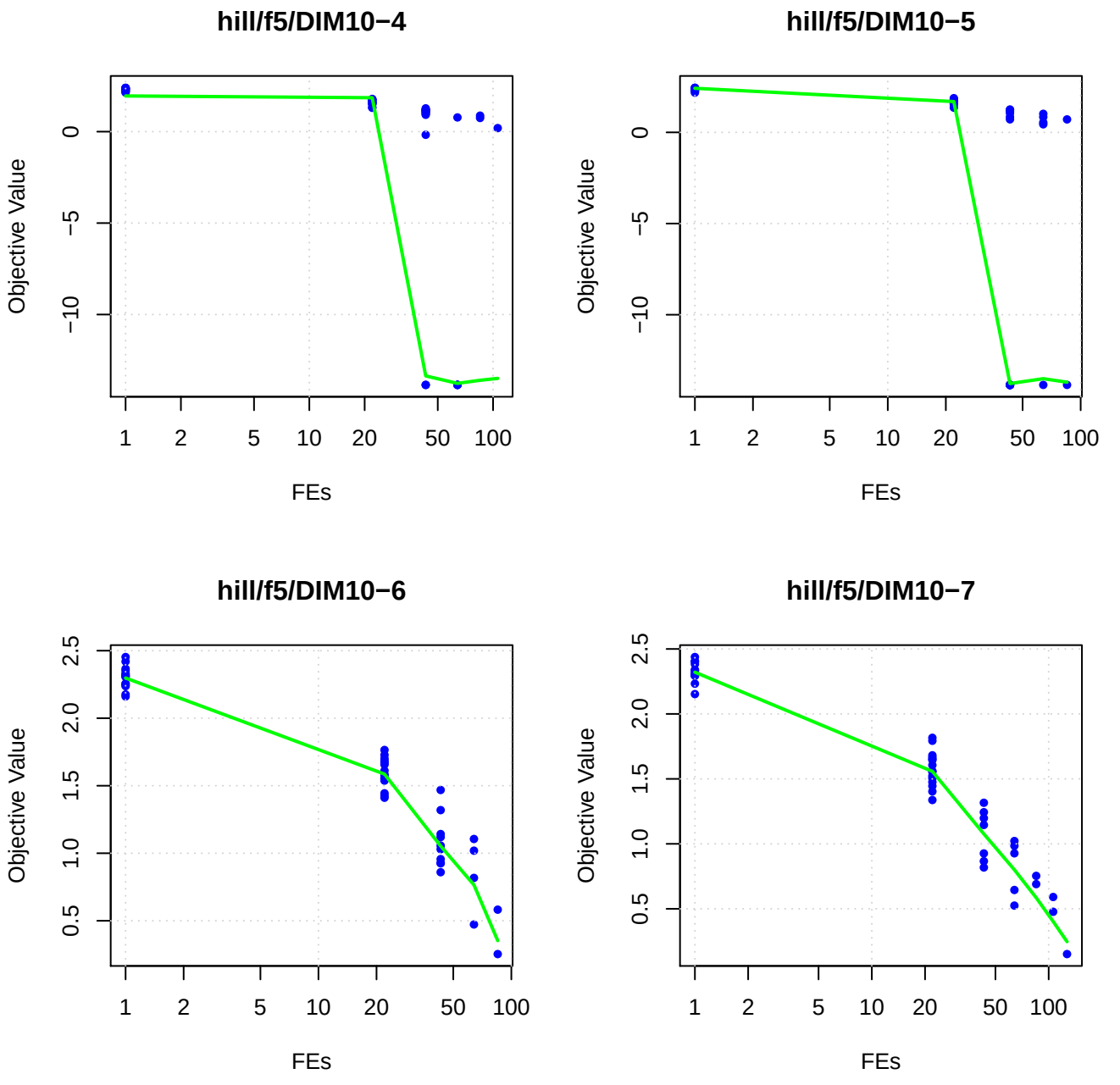
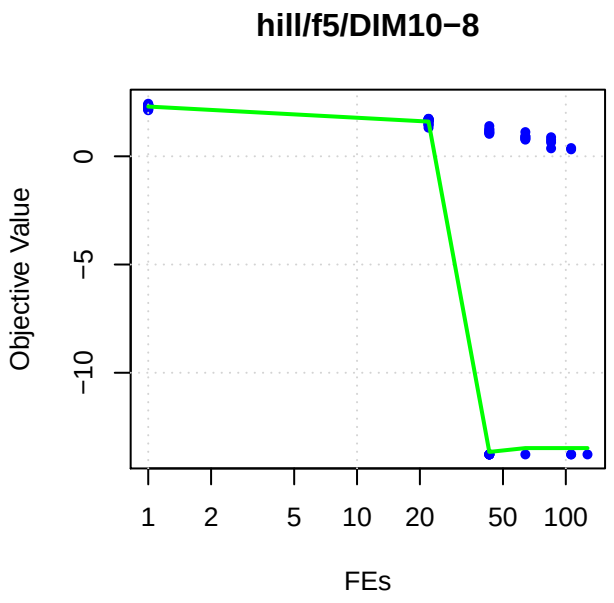
10
20
50
100
FEs


hill/f5/DIM10−4
hill/f5/DIM10−5
hill/f5/DIM10−6
hill/f5/DIM10−7
Objective Value
FEs
0
−5
−10
0.5
1.0
1.5
2.0
2.5
1
2
5
10
20
50
100


hill/f5/DIM10−8
Objective Value
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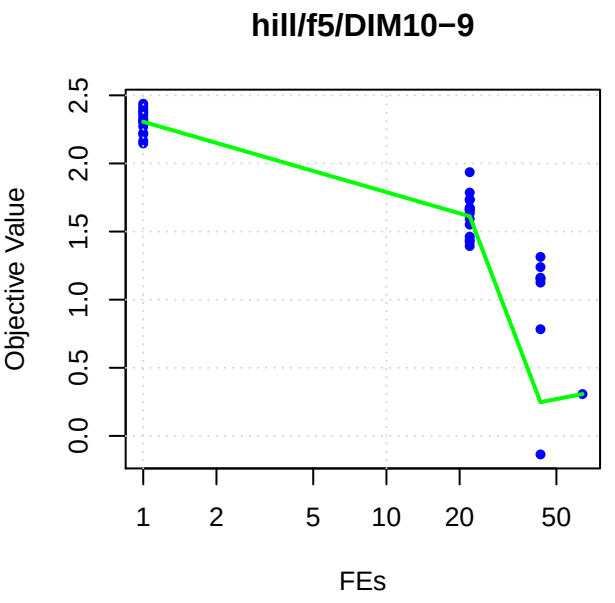
−5
−10
1
2
5
10
20
50
100
FEs


hill/f5/DIM10−9
Objective Value
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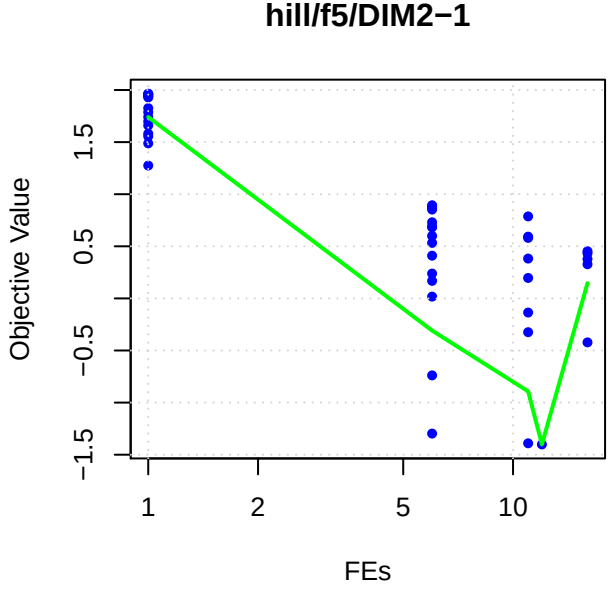
1.5
1.0
0.5
0.0
1
2
5
10
20
50
FEs


hill/f5/DIM2−1
Objective Value
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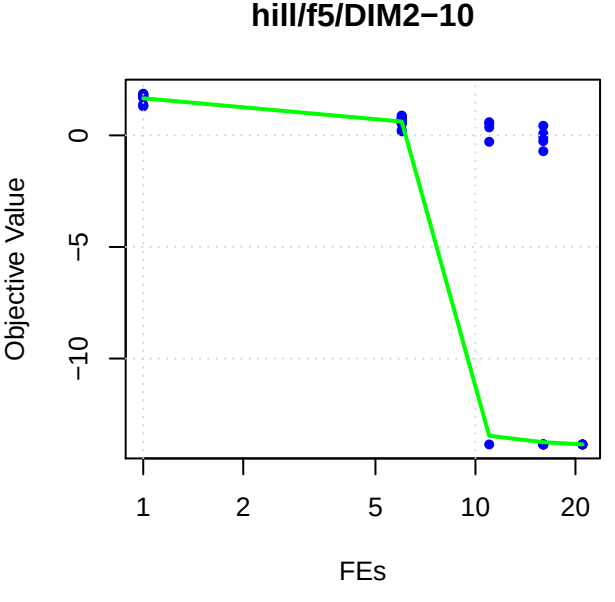
0.5
−0.5
−1.5
1
2
5
10
FEs


hill/f5/DIM2−10
Objective Value
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−10
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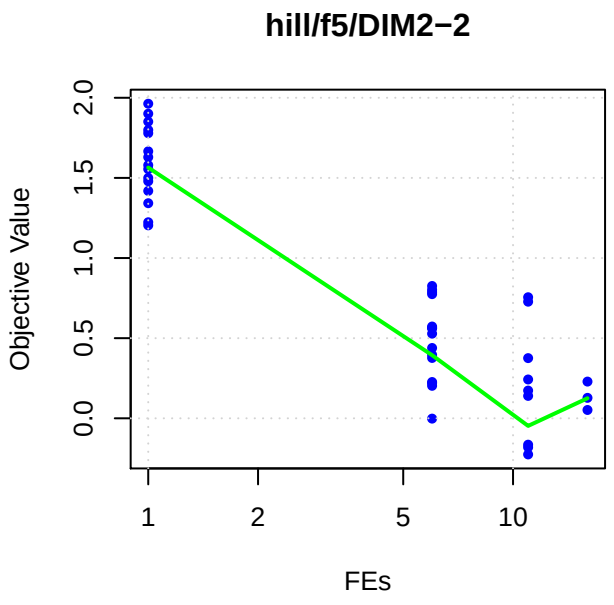
2
5
10
20
FEs


hill/f5/DIM2−2
Objective Value
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1.0
1.5
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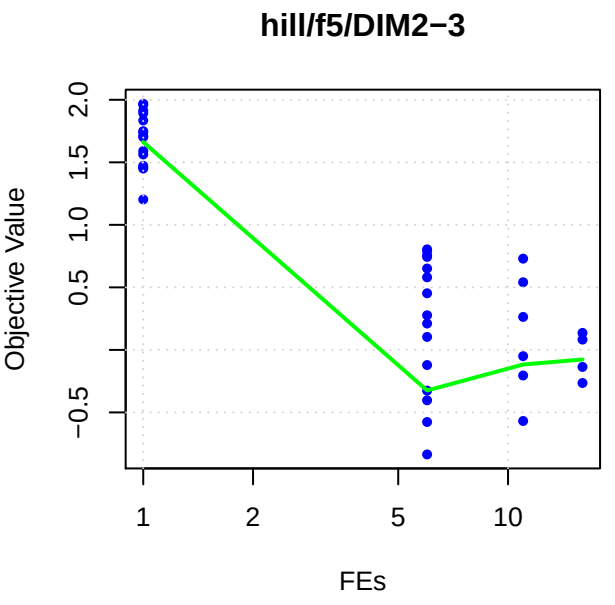
1
2
5
10
FEs


hill/f5/DIM2−3
Objective Value
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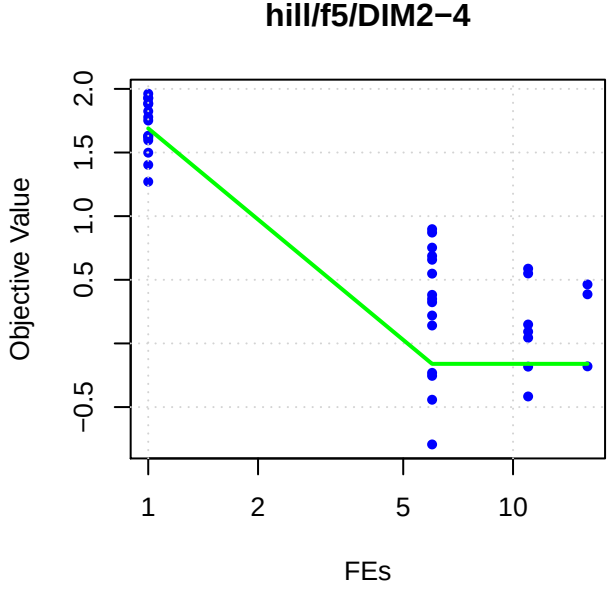
0.5
1.0
1.5
2.0
1
2
5
10
FEs


hill/f5/DIM2−4
Objective Value
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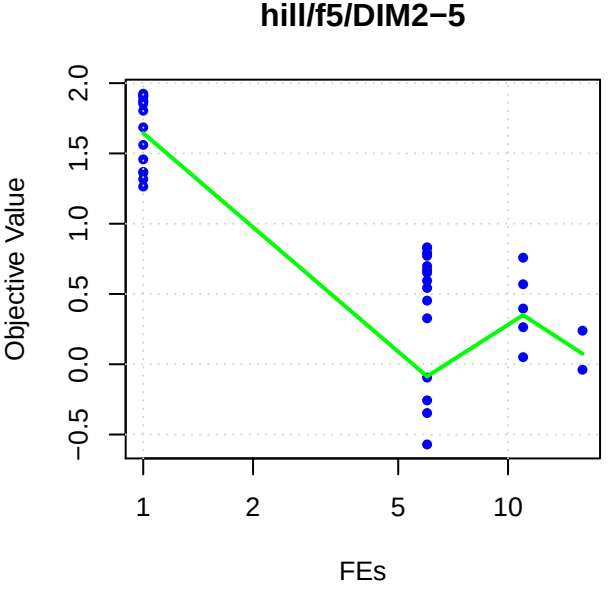
0.5
1.0
1.5
2.0
1
2
5
10
FEs


hill/f5/DIM2−5
Objective Value
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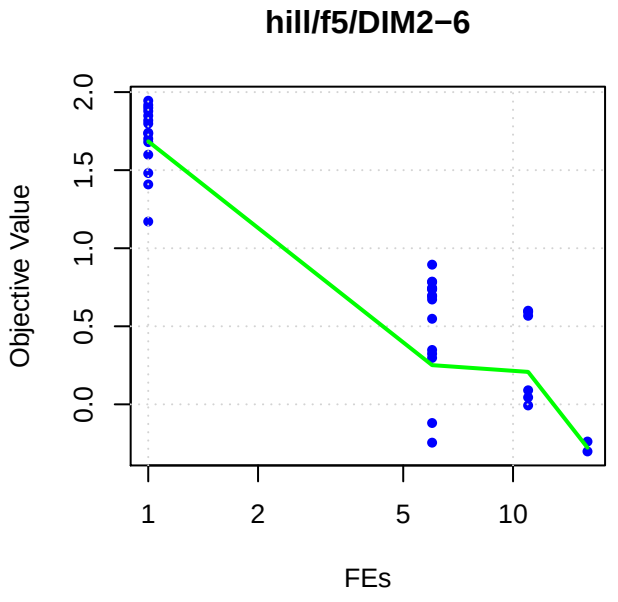
0.0
0.5
1.0
1.5
2.0
1
2
5
10
FEs


hill/f5/DIM2−6
Objective Value
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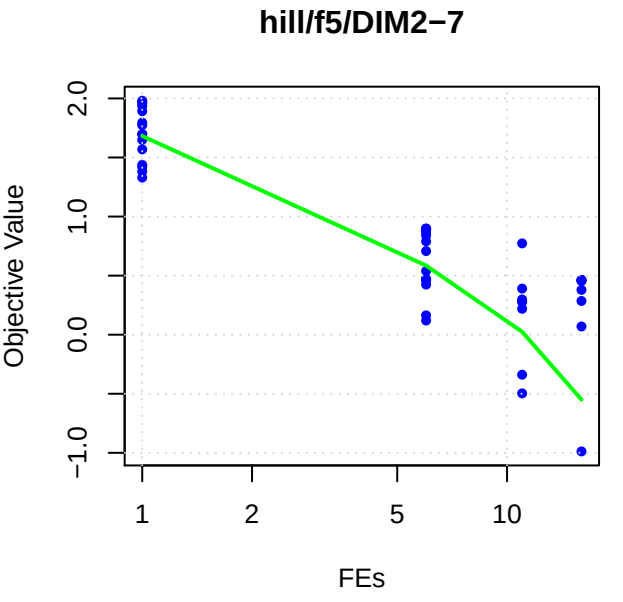
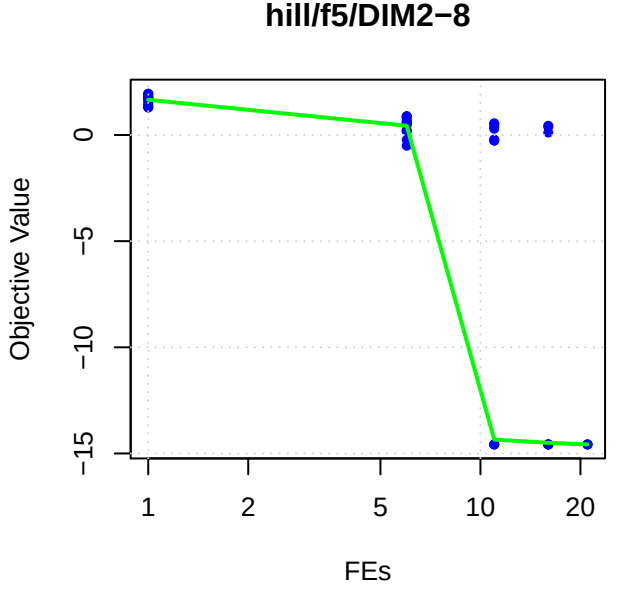
1.5
1.0
0.5
0.0
1
2
5
10
FEs


hill/f5/DIM2−7
Objective Value
2.0
1.0
0.0
−1.0
1
2
5
10
FEs


hill/f5/DIM2−8
Objective Value
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−5
−10
−15
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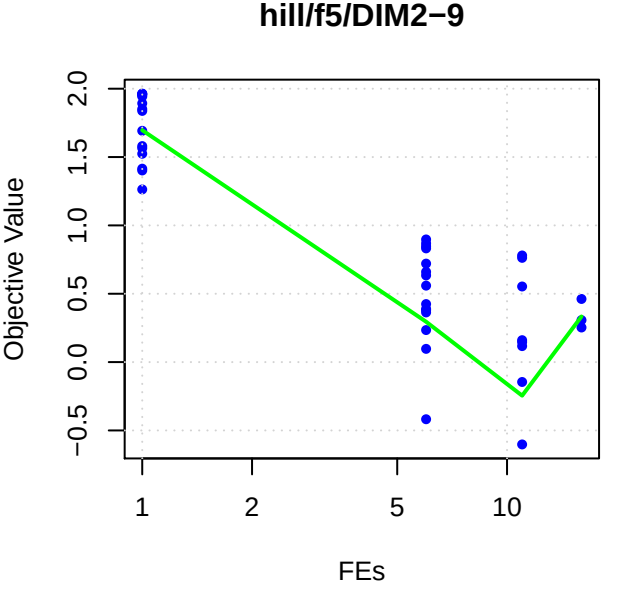
2
5
10
20
FEs


hill/f5/DIM2−9
Objective Value
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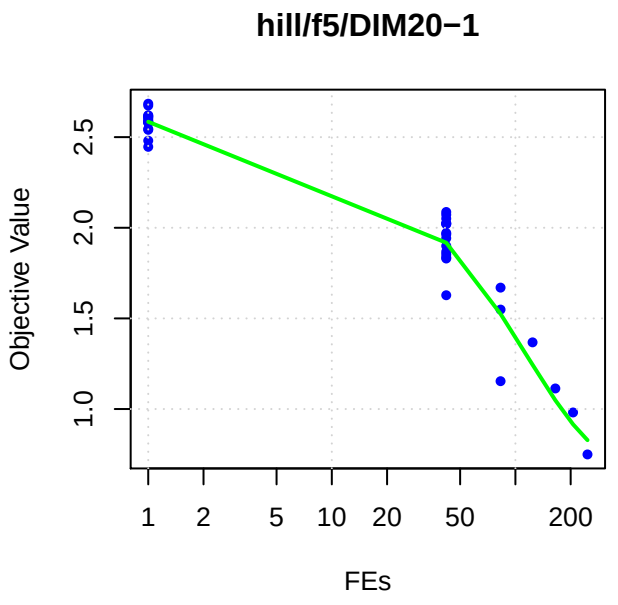
1.0
0.5
0.0
−0.5
1
2
5
10
FEs


hill/f5/DIM20−1
Objective Value
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1.5
2.0
2.5
1
2
5
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20
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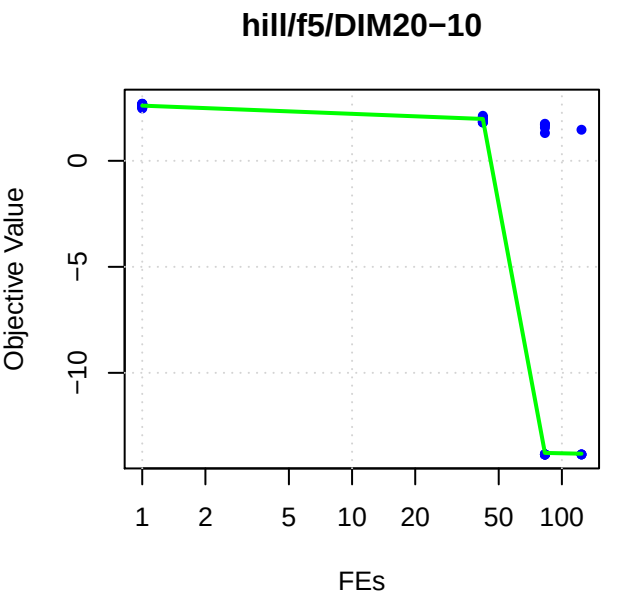
200
FEs


hill/f5/DIM20−10
Objective Value
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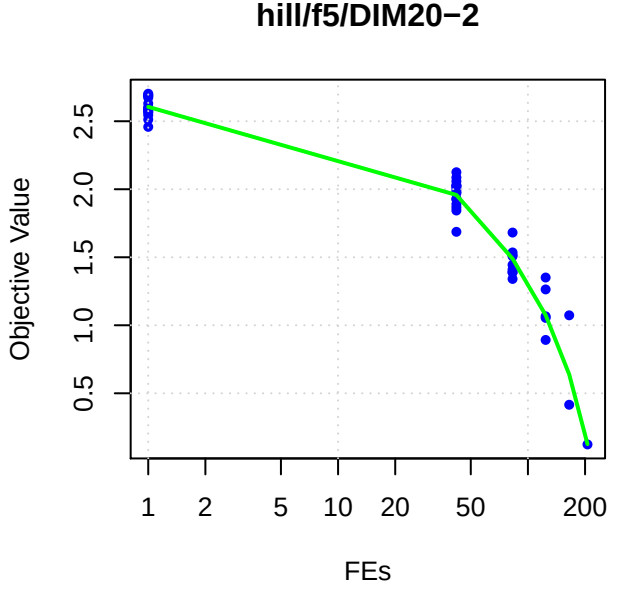
100
FEs


hill/f5/DIM20−2
Objective Value
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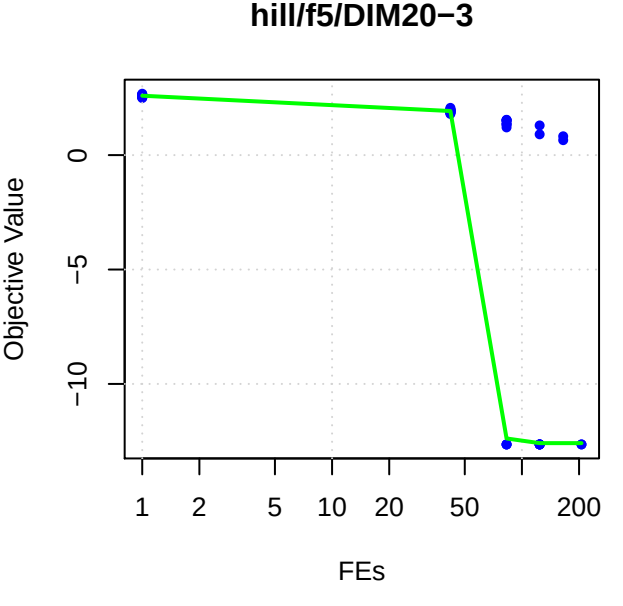
FEs


hill/f5/DIM20−3
Objective Value
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2
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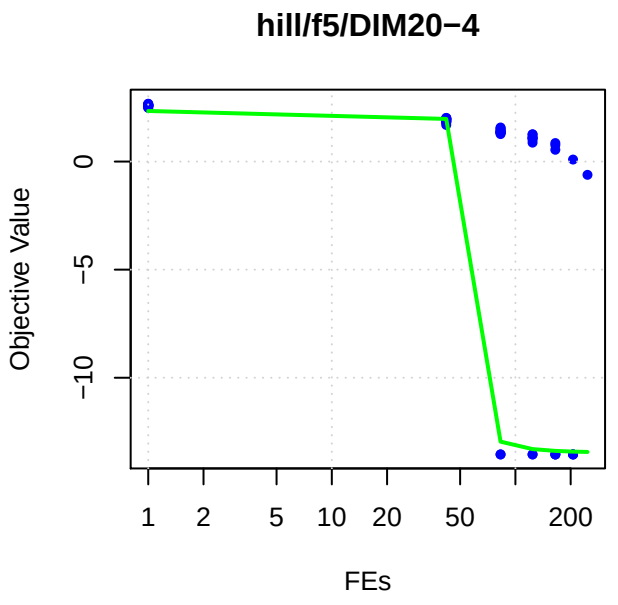
200
FEs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Objective Value
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1
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10
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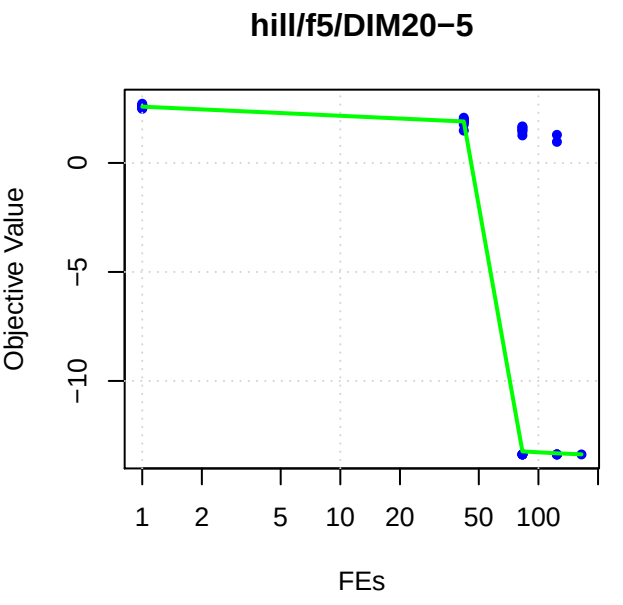
FEs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Objective Value
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2
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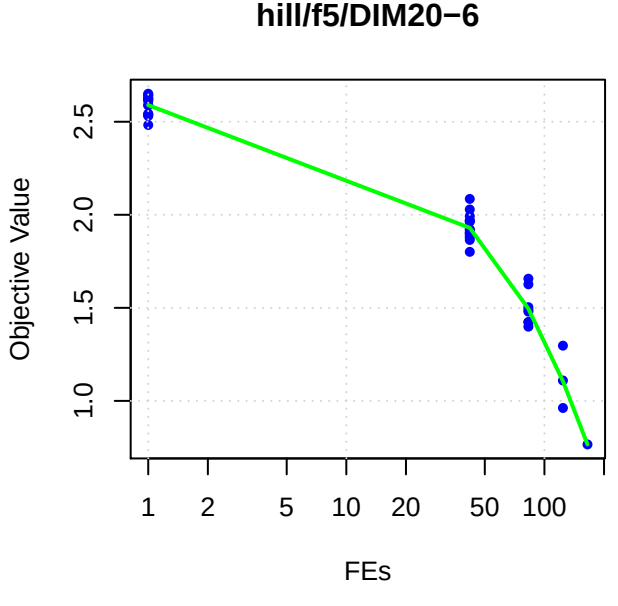
100
FEs


hill/f5/DIM20−6
Objective Value
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1.5
1.0
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2
5
10
20
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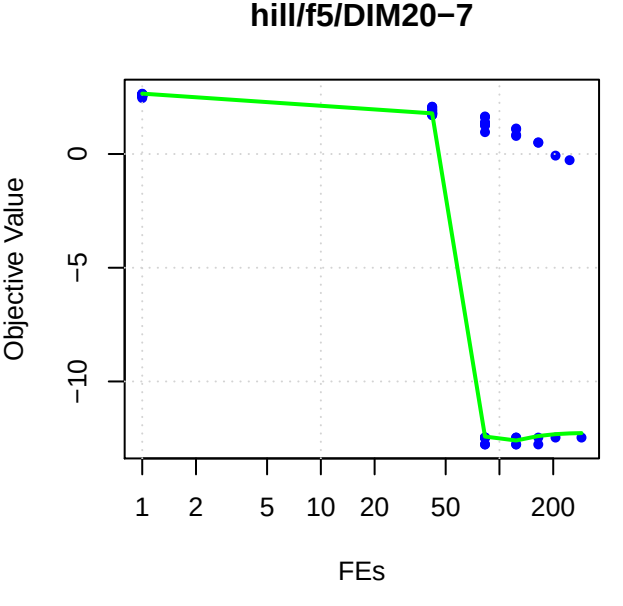
100
FEs


hill/f5/DIM20−7
Objective Value
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−10
1
2
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20
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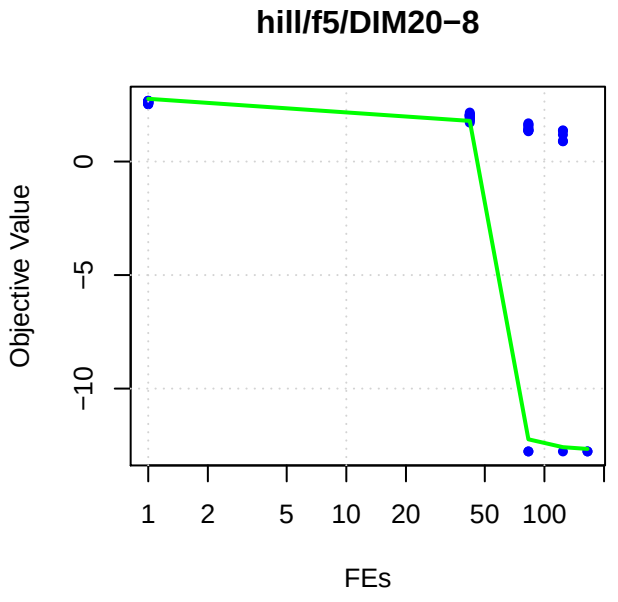
200
FEs


hill/f5/DIM20−8
Objective Value
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2
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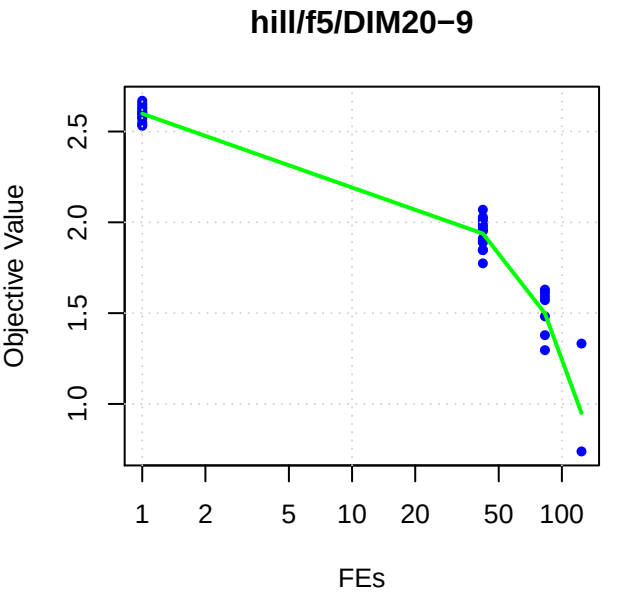
100
FEs


hill/f5/DIM20−9
Objective Value
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1.0
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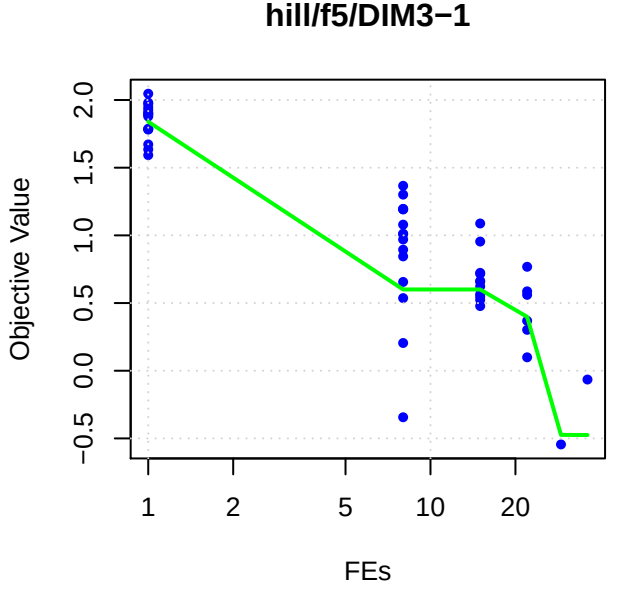
FEs


hill/f5/DIM3−1
Objective Value
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1.5
1.0
0.5
0.0
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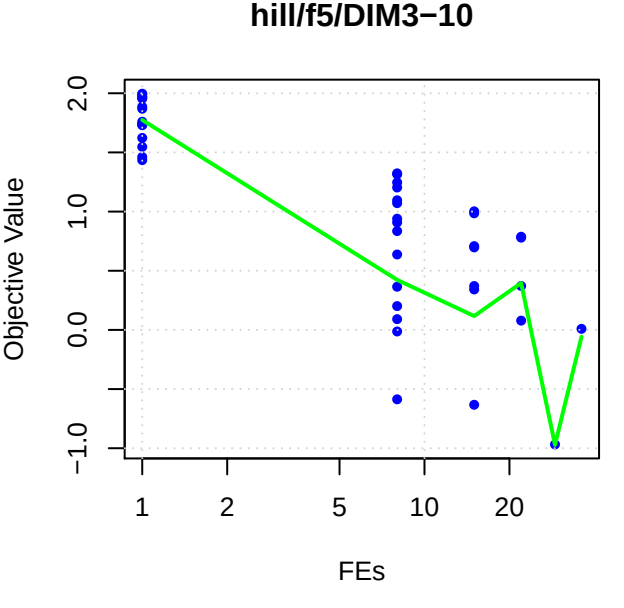
1
2
5
10
20
FEs


hill/f5/DIM3−10
Objective Value
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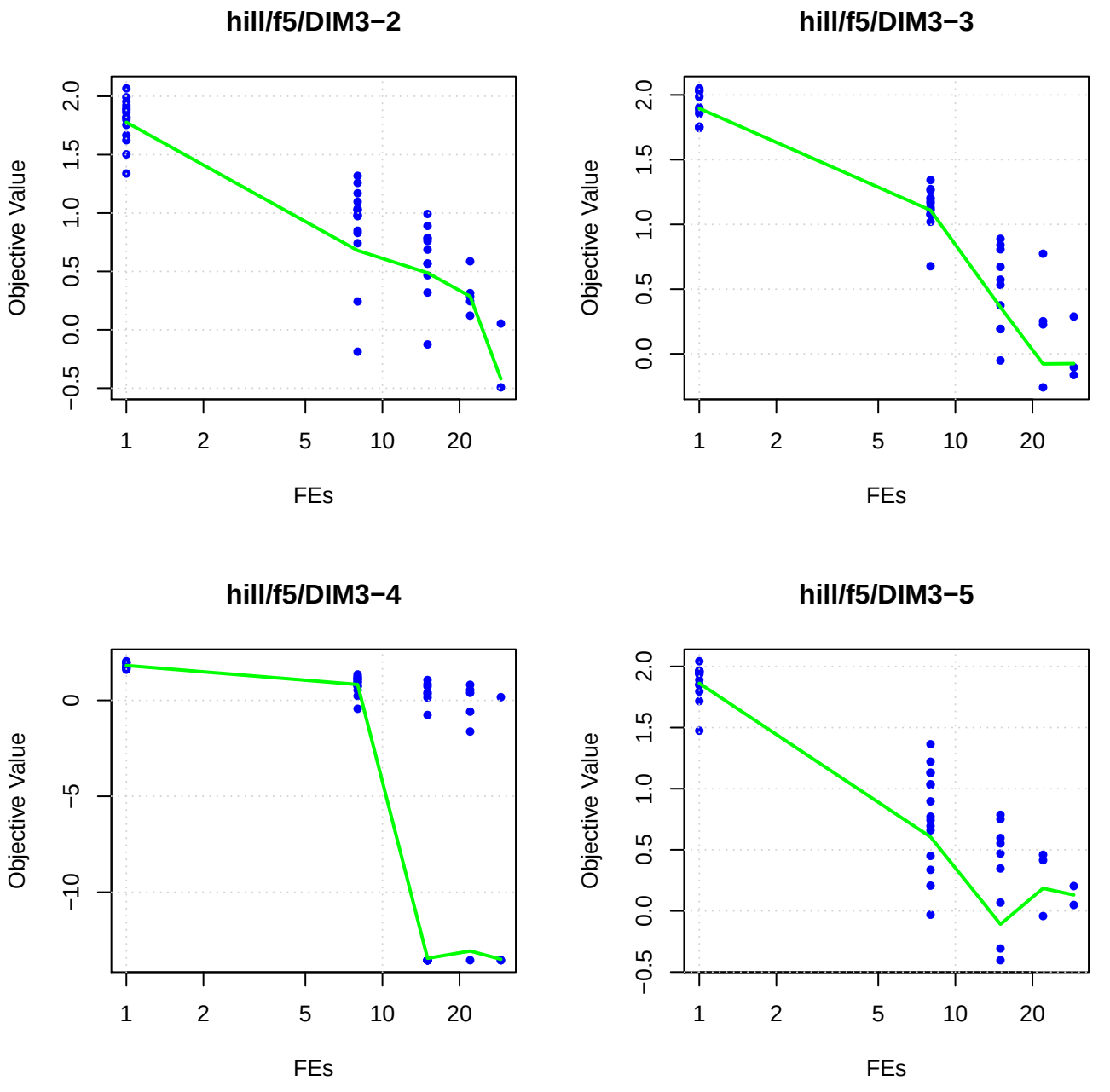
1.0
0.0
−1.0
1
2
5
10
20
FEs


hill/f5/DIM3−2
hill/f5/DIM3−3
hill/f5/DIM3−4
hill/f5/DIM3−5
Objective Value
FEs
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2
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10
20
−0.5
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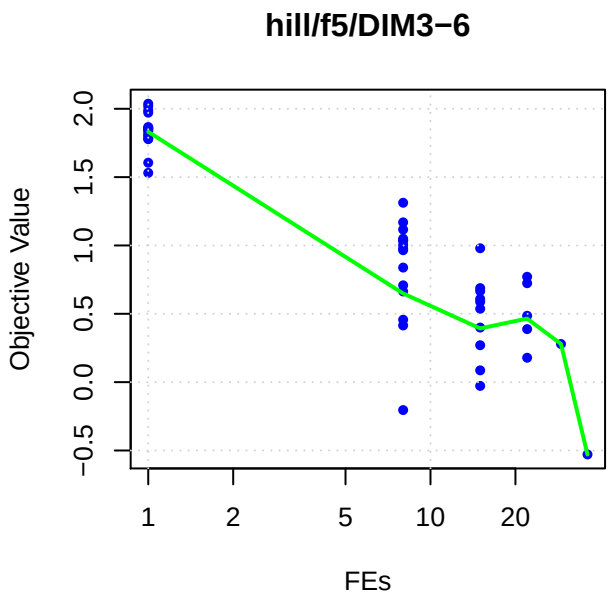
0.5
1.0
1.5
2.0
0
−5
−10


hill/f5/DIM3−6
Objective Value
FEs
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1.5
1.0
0.5
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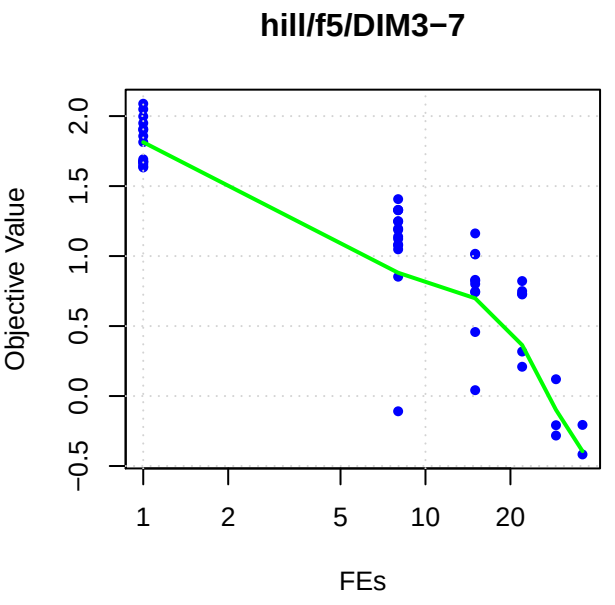
−0.5
1
2
5
10
20


hill/f5/DIM3−7
Objective Value
FEs
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1.0
0.5
0.0
−0.5
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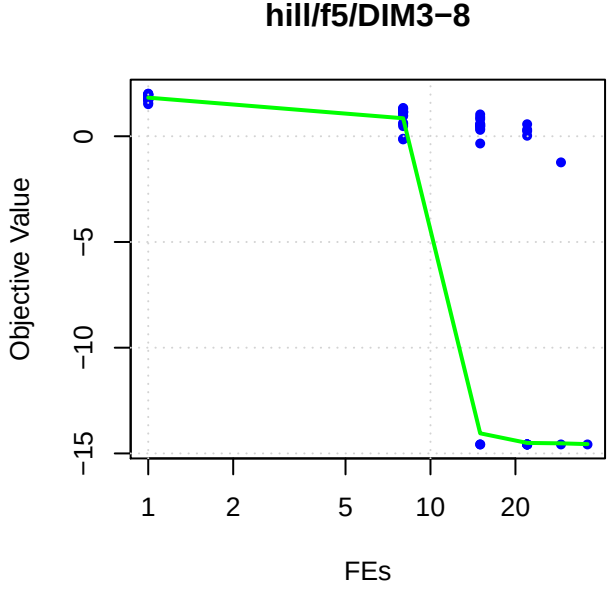
2
5
10
20


hill/f5/DIM3−8
Objective Value
FEs
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−10
−15
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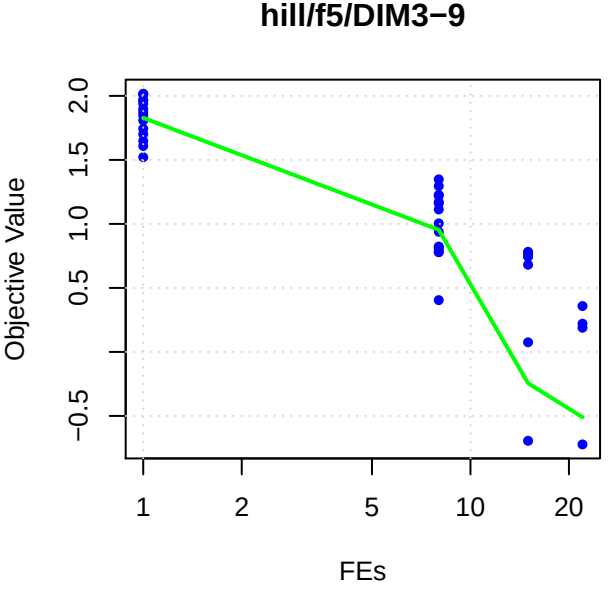
2
5
10
20


hill/f5/DIM3−9
Objective Value
FEs
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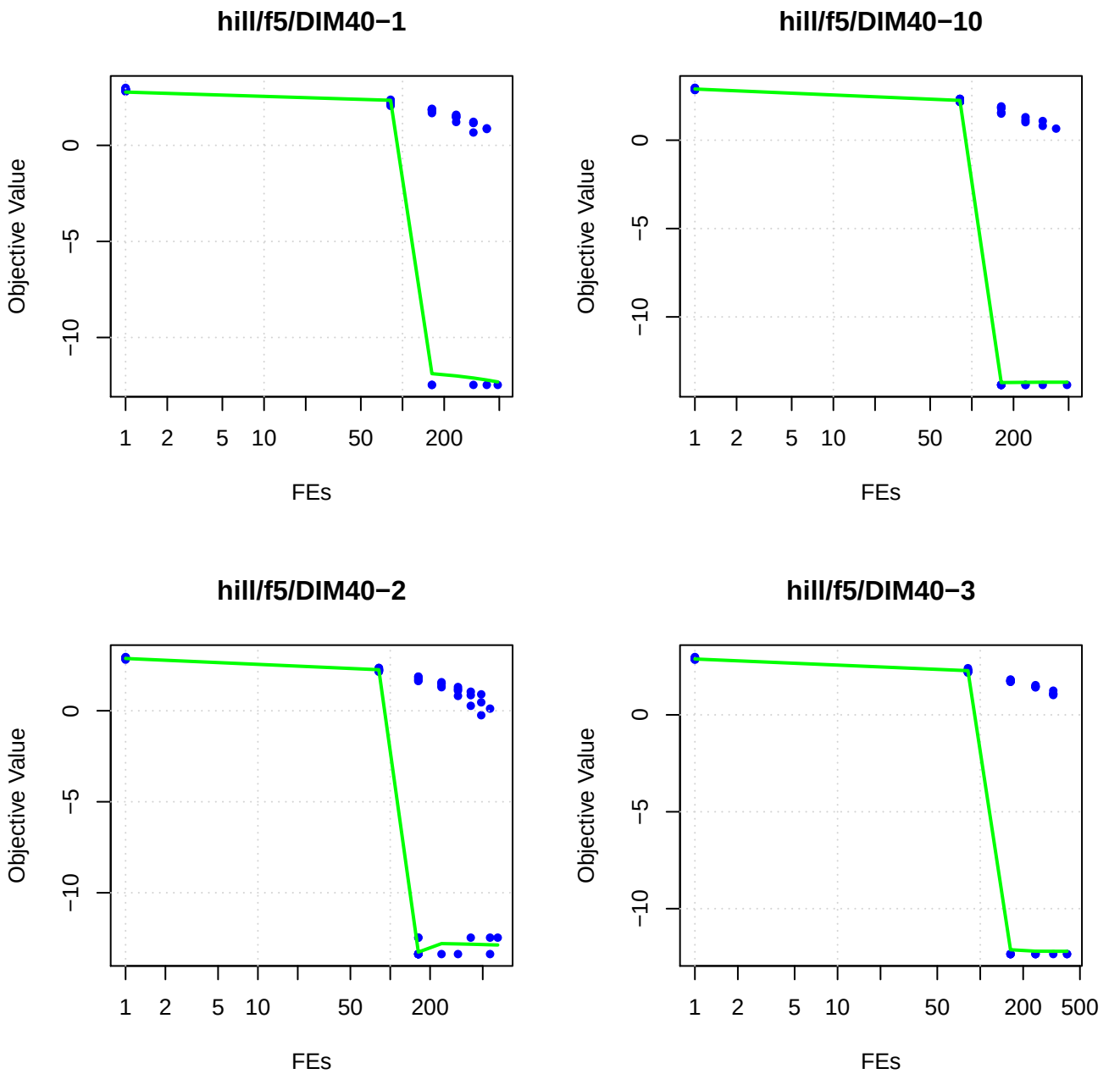
1.5
1.0
0.5
−0.5
1
2
5
10
20


hill/f5/DIM40−1
hill/f5/DIM40−10
hill/f5/DIM40−2
hill/f5/DIM40−3
Objective Value
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−5
−10
1
2
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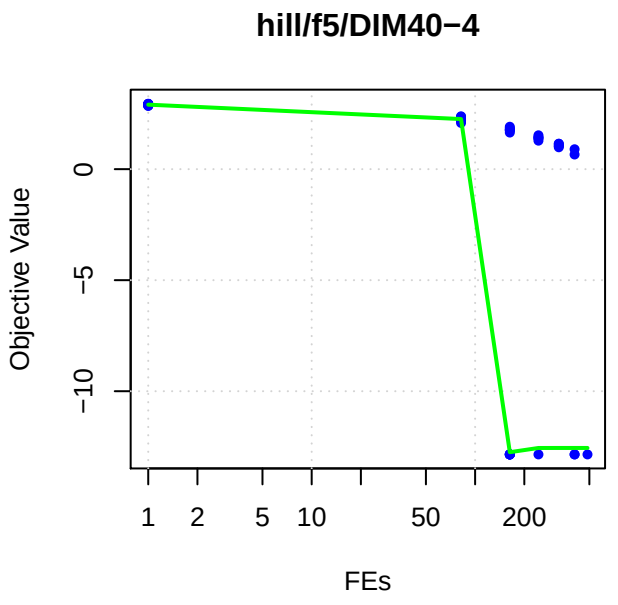
10
50
200
500
FEs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Objective Value
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−10
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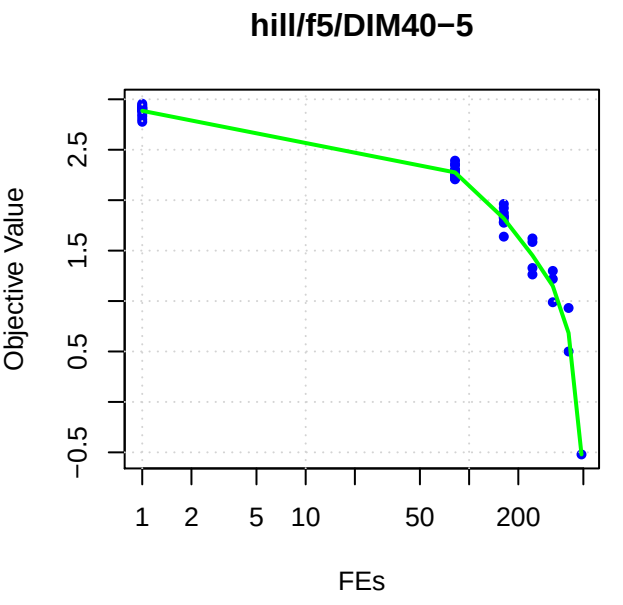
200
FEs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Objective Value
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1.5
0.5
−0.5
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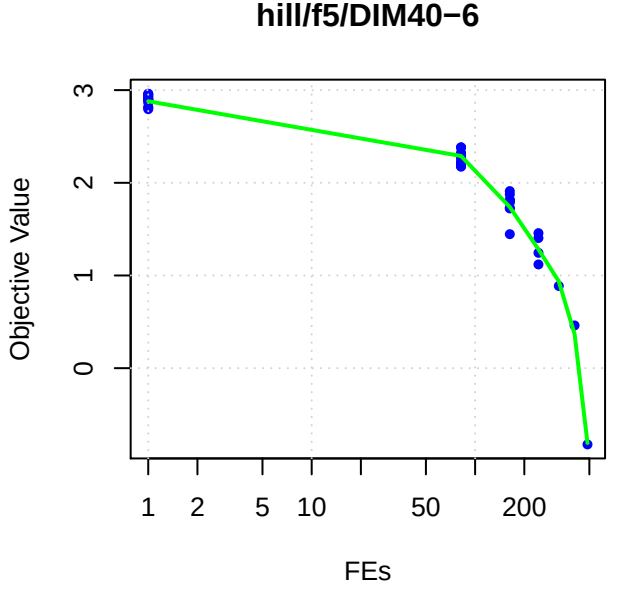
2
5
10
50
200
FEs


hill/f5/DIM40−6
Objective Value
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2
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0
1
2
5
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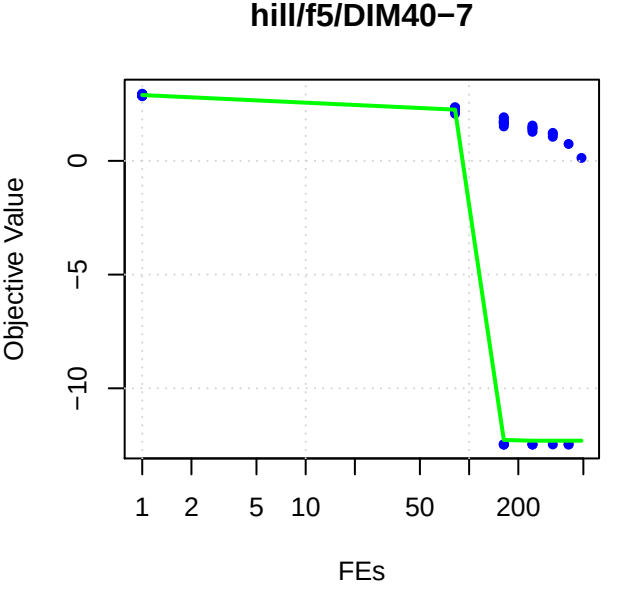
200
FEs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Objective Value
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−10
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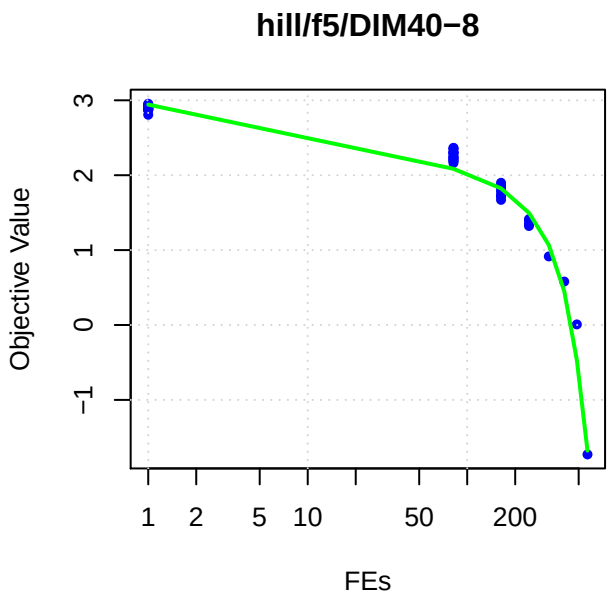
10
50
200
FEs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Objective Value
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1
0
−1
1
2
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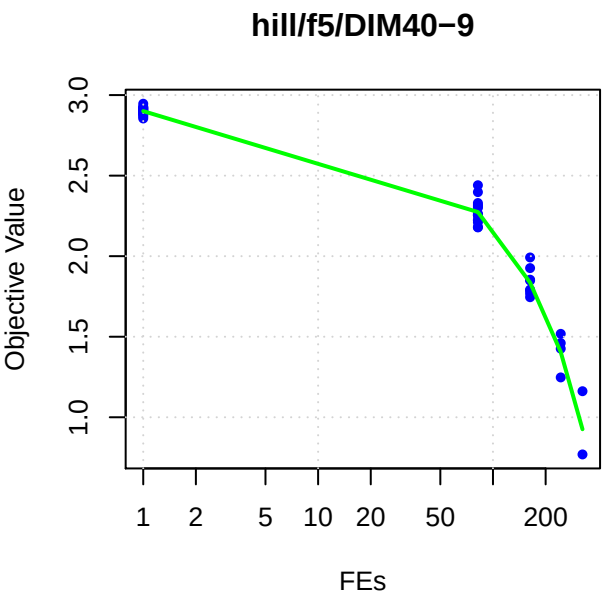
200
FEs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2.0
1.5
1.0
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20
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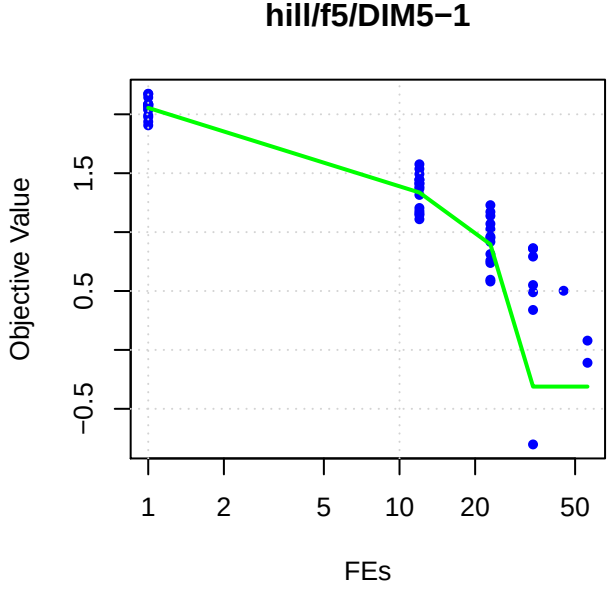
200
FEs


hill/f5/DIM5−1
Objective Value
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0.5
−0.5
1
2
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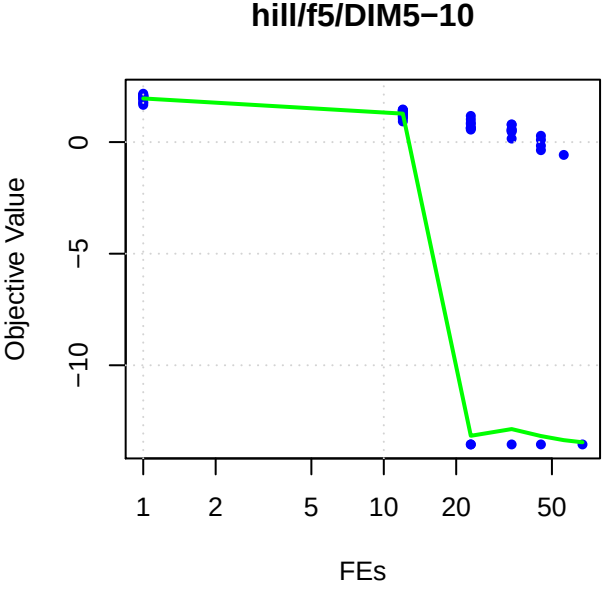
10
20
50
FEs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Objective Value
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−10
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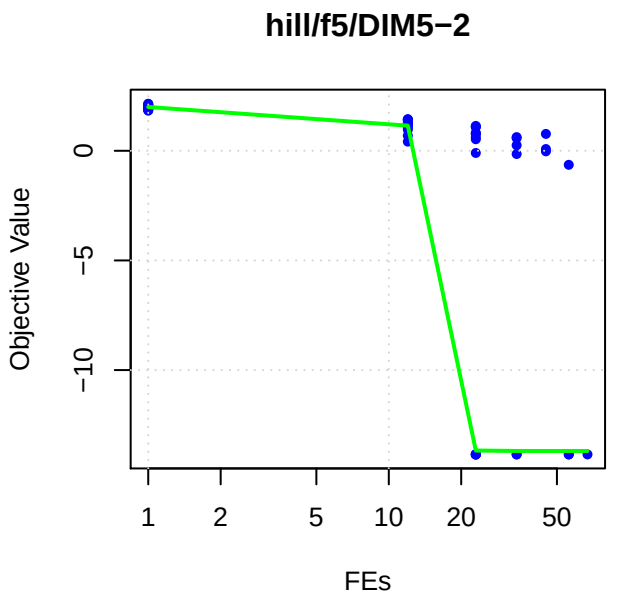
10
20
50
FEs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Objective Value
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−10
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2
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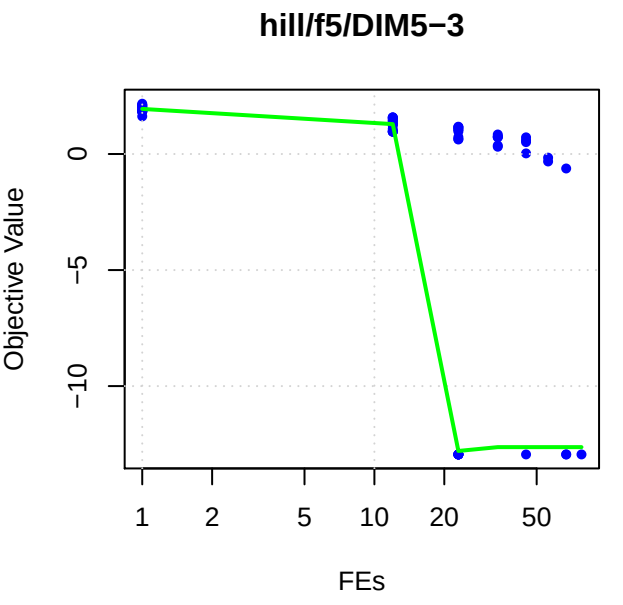
10
20
50
FEs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Objective Value
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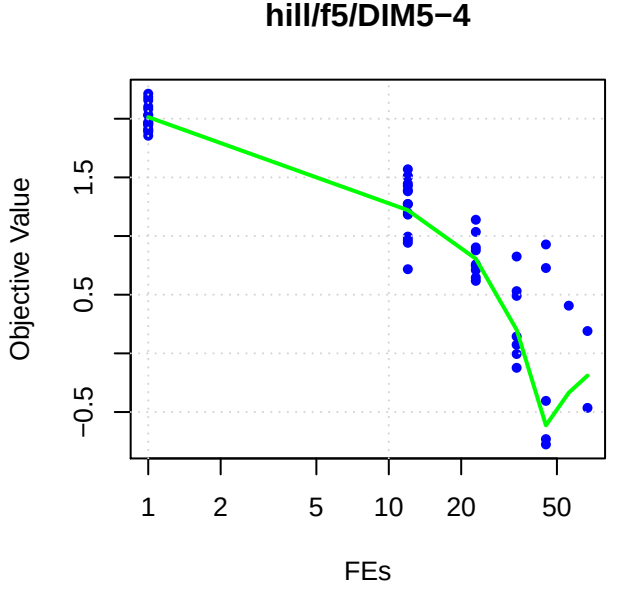
−5
−10
1
2
5
10
20
50
FEs


hill/f5/DIM5−4
Objective Value
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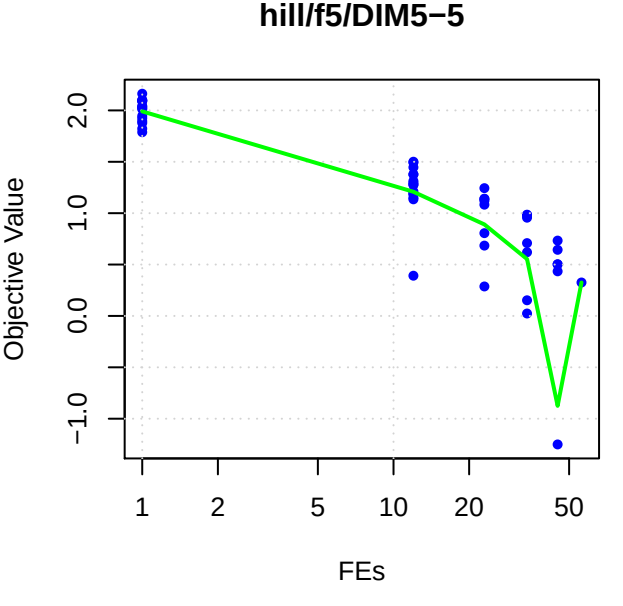
0.5
−0.5
1
2
5
10
20
50
FEs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Objective Value
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0.0
−1.0
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2
5
10
20
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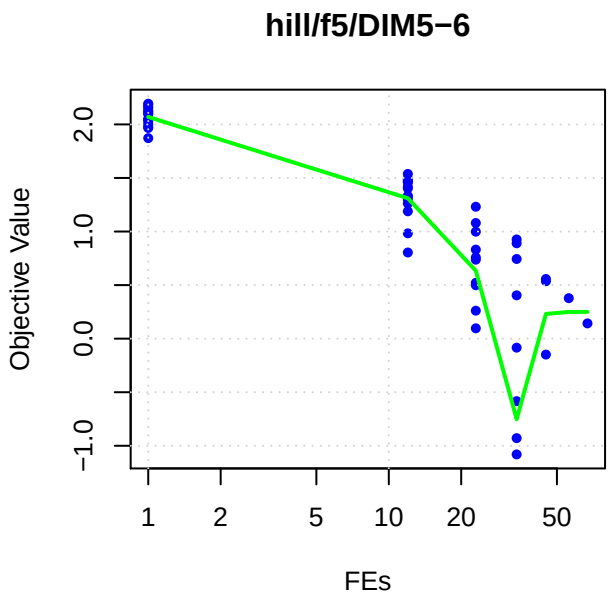
FEs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Objective Value
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−1.0
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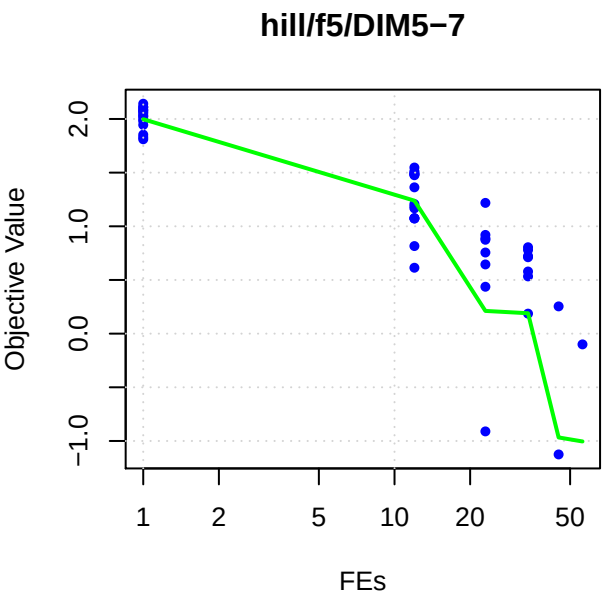
2
5
10
20
50
FEs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Objective Value
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−1.0
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2
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10
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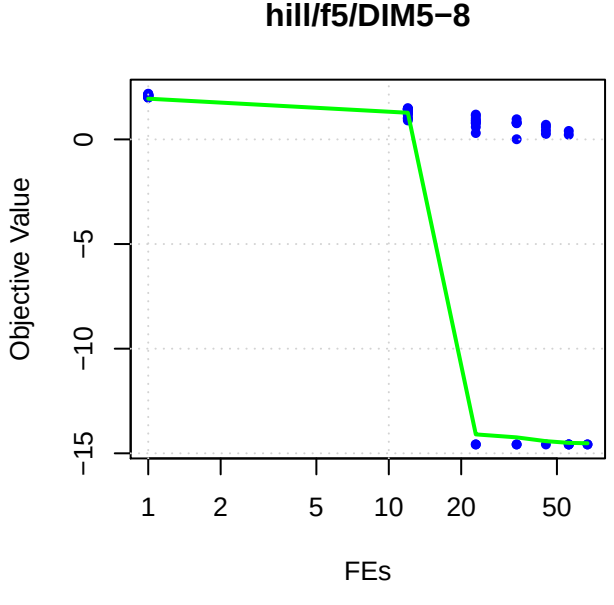
FEs


hill/f5/DIM5−8
Objective Value
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−5
−10
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2
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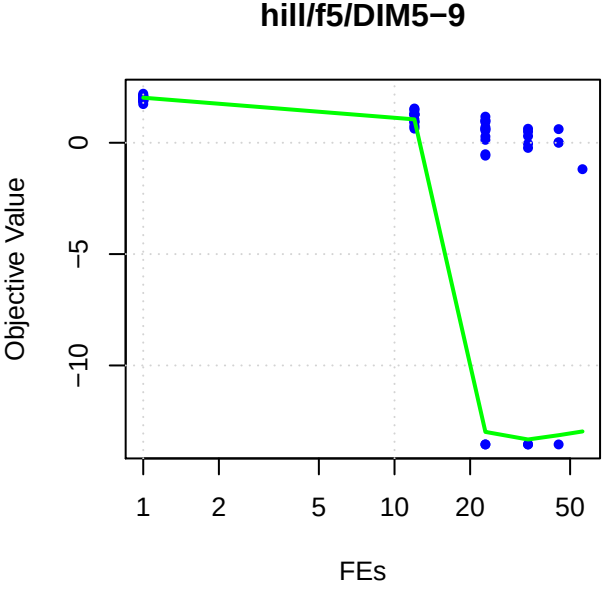
10
20
50
FEs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Objective Value
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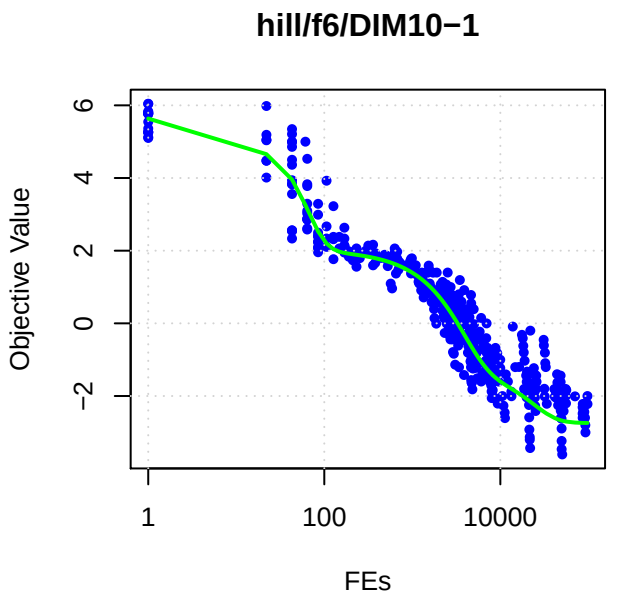
10
20
50
FEs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Objective Value
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−2
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100
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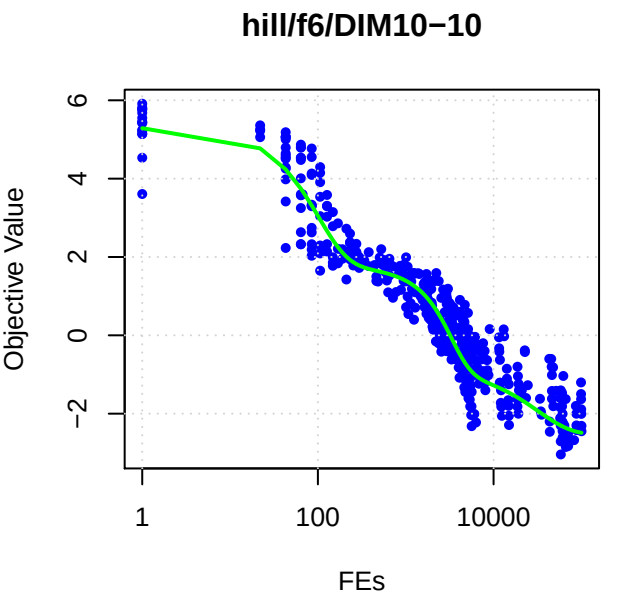
FEs


hill/f6/DIM10−10
Objective Value
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−2
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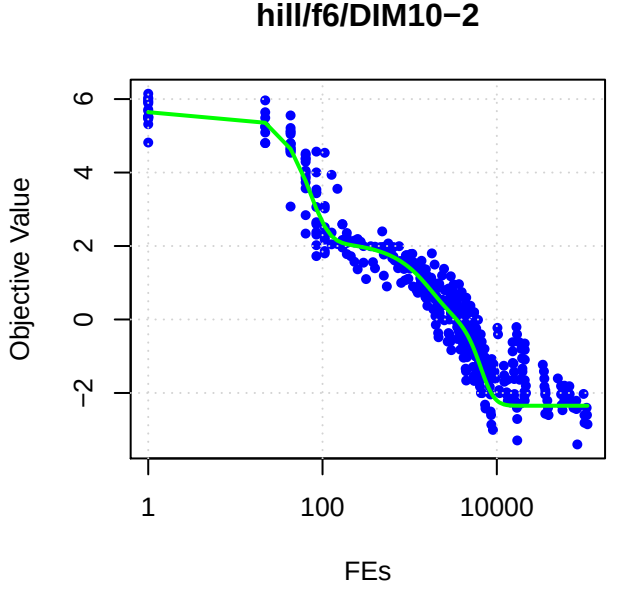
FEs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Objective Value
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2
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−2
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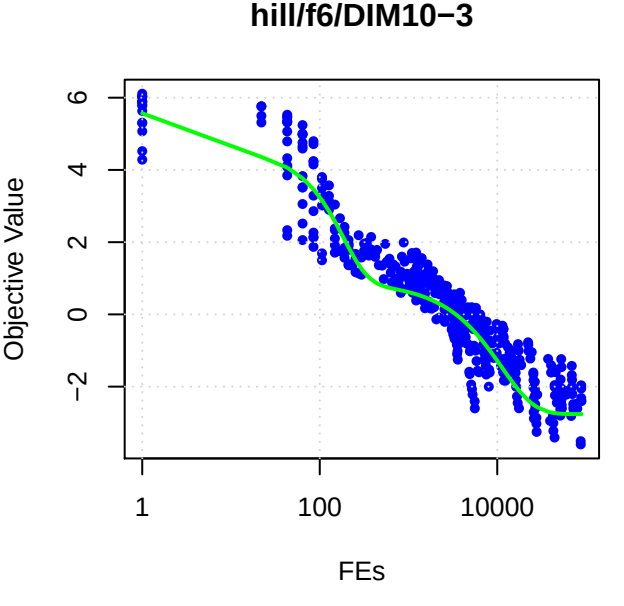
100
10000
FEs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Objective Value
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2
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−2
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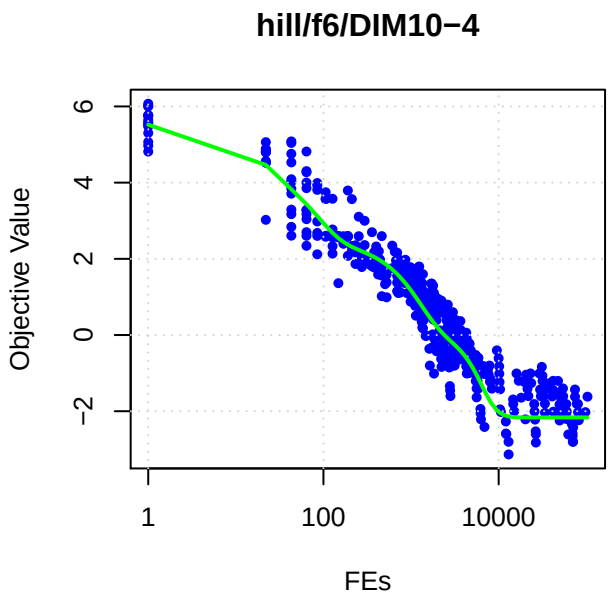
10000
FEs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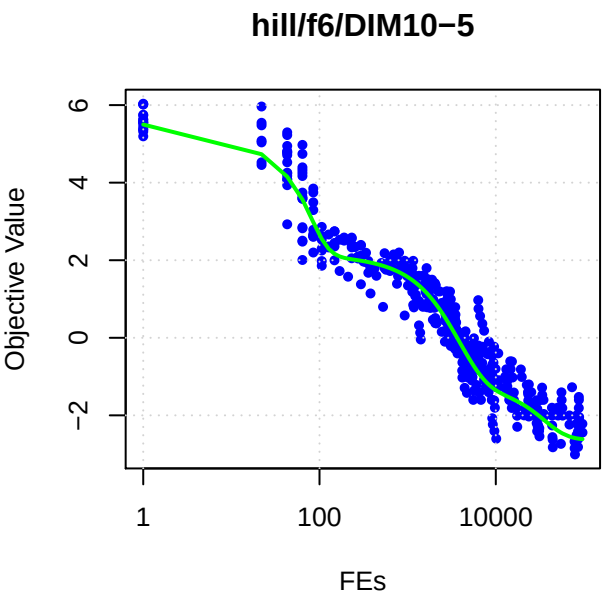
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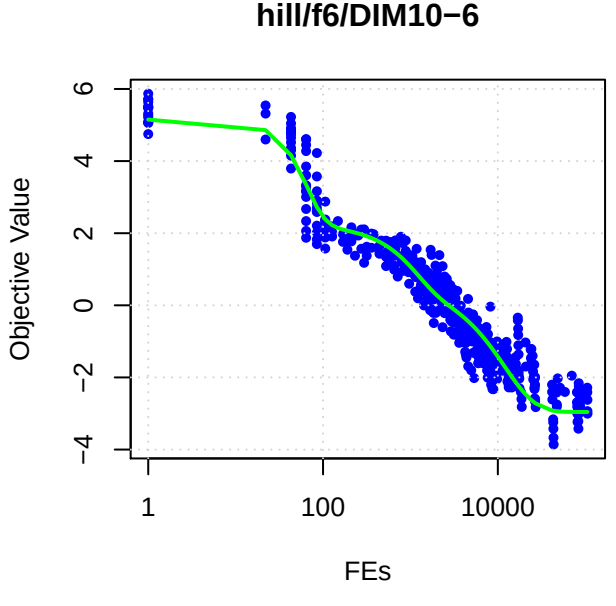
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Objective Value
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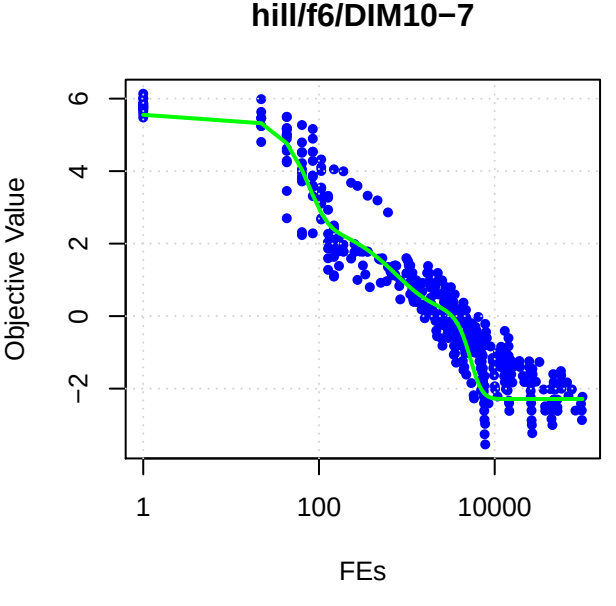
−4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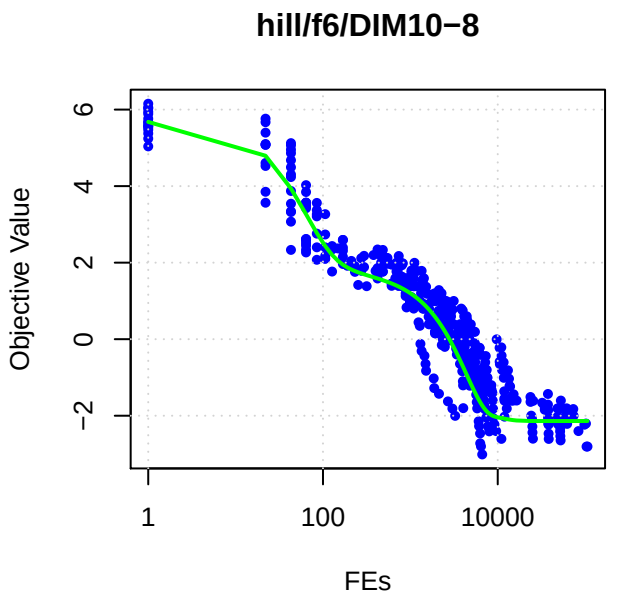
−2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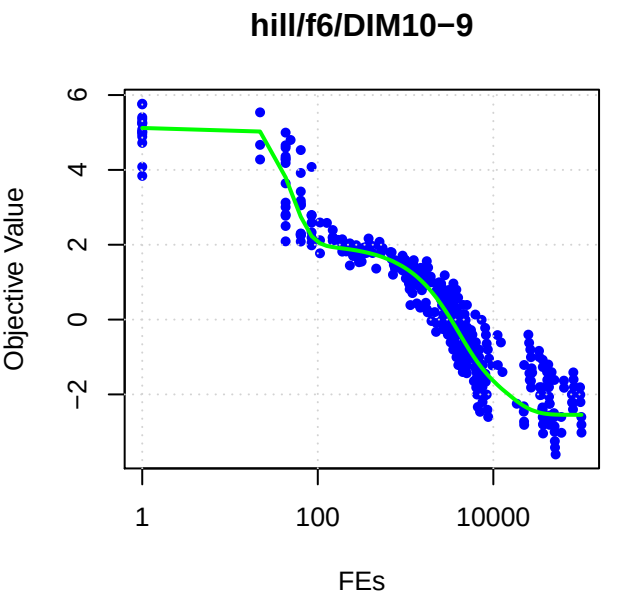
FEs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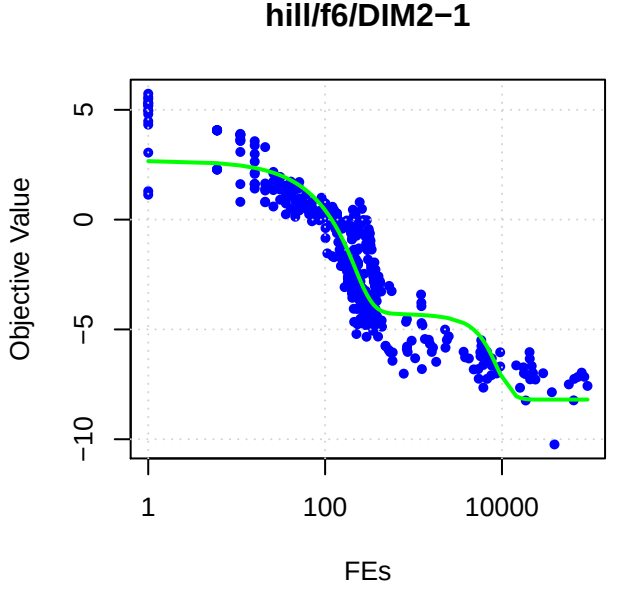
FEs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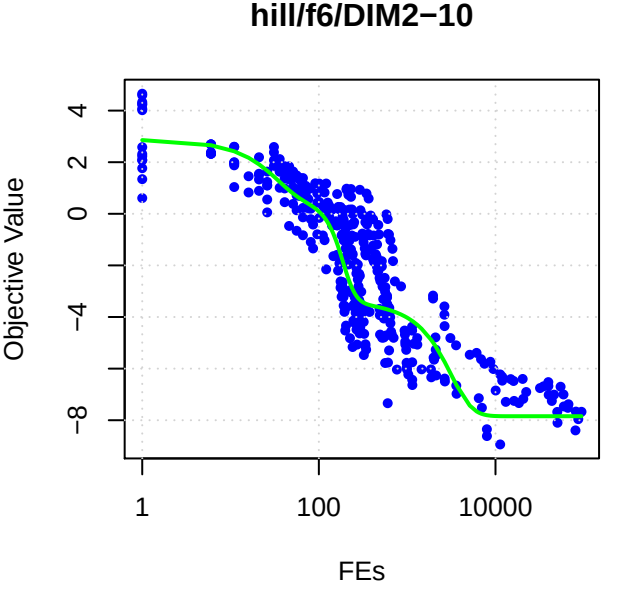
FEs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Objective Value
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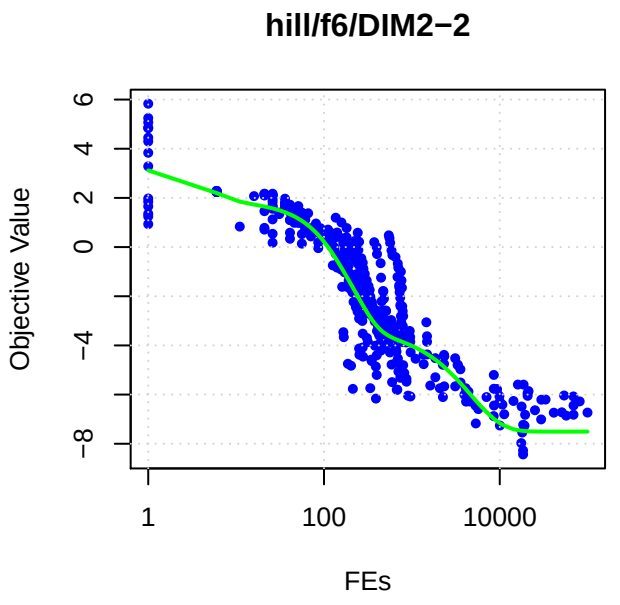
FEs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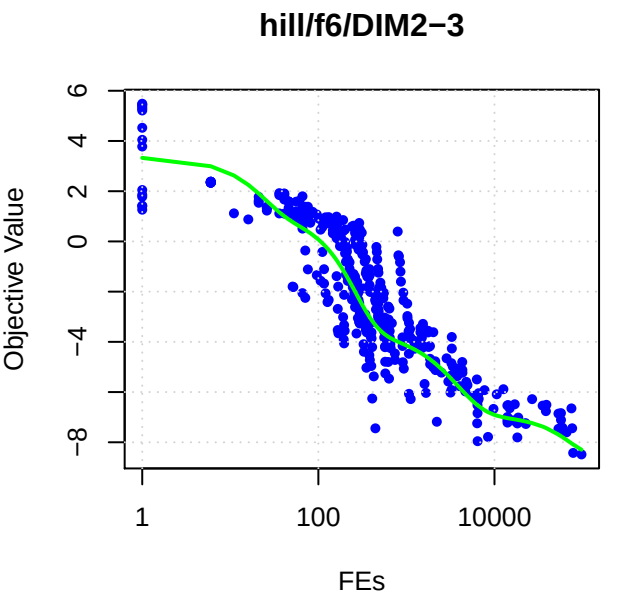
FEs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Objective Value
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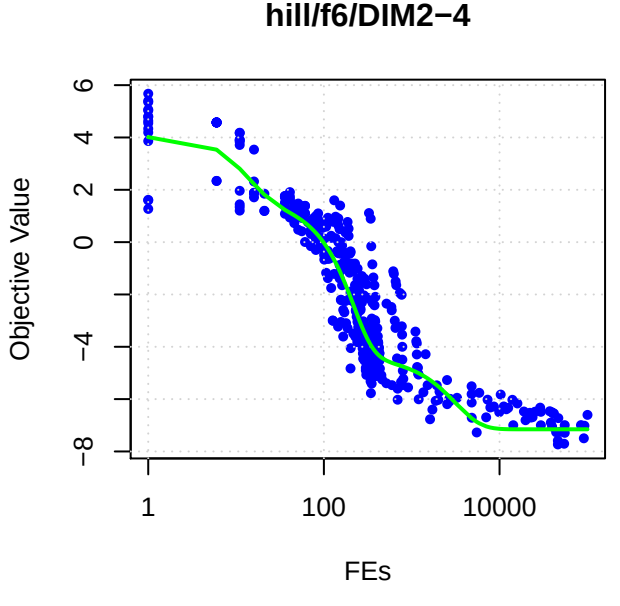
FEs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Objective Value
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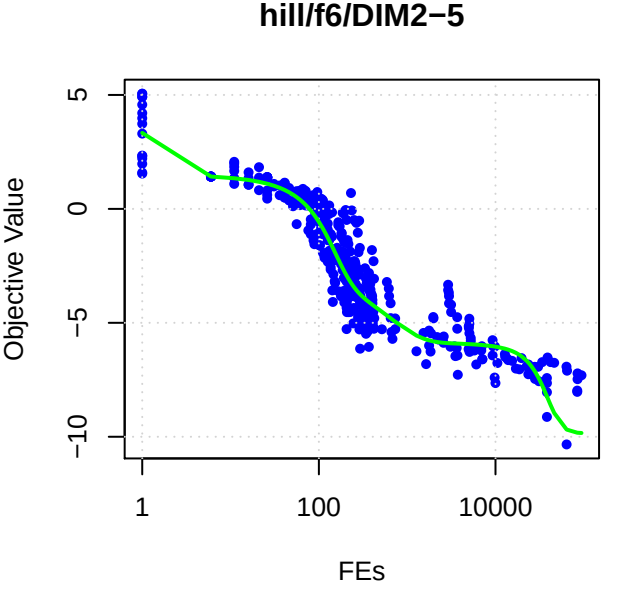
FEs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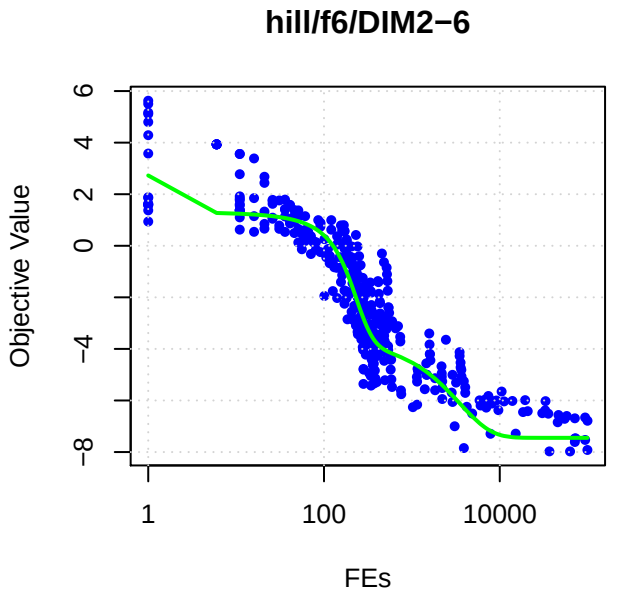
FEs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Objective Value
FEs
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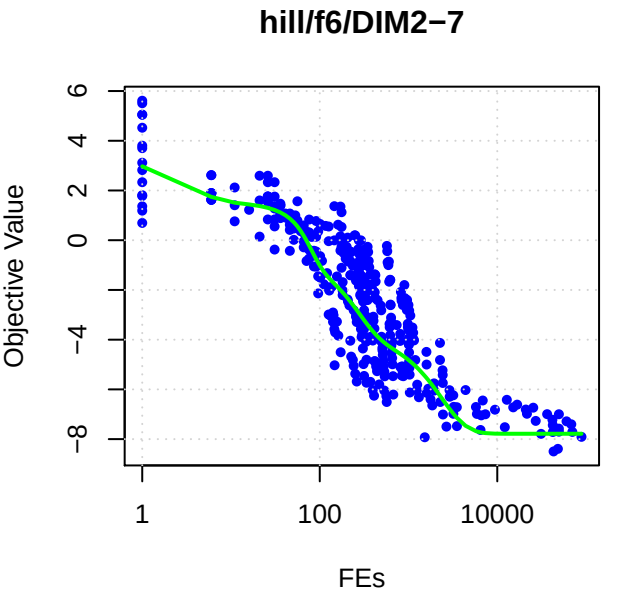
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Objective Value
FEs
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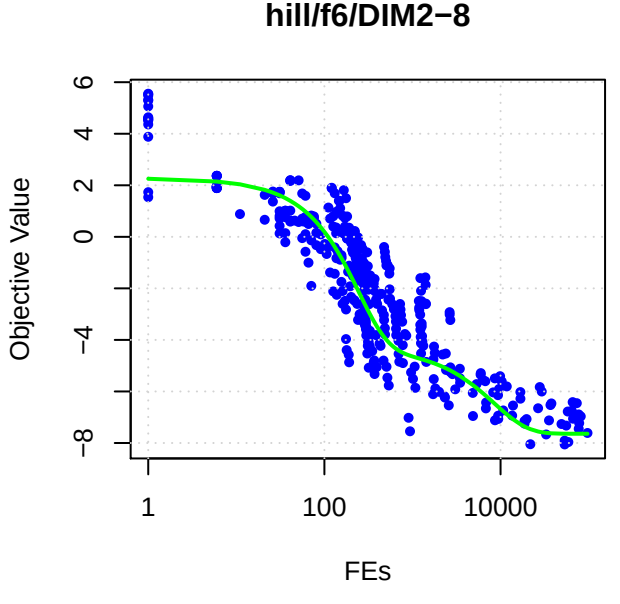
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Objective Value
FEs
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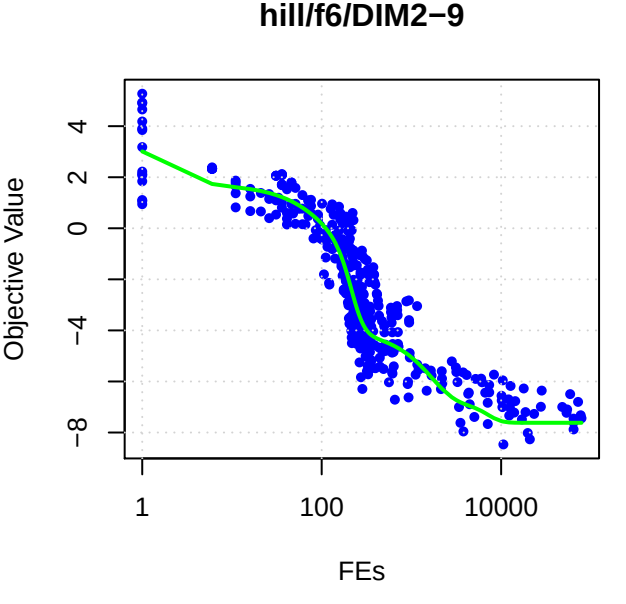
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Objective Value
FEs
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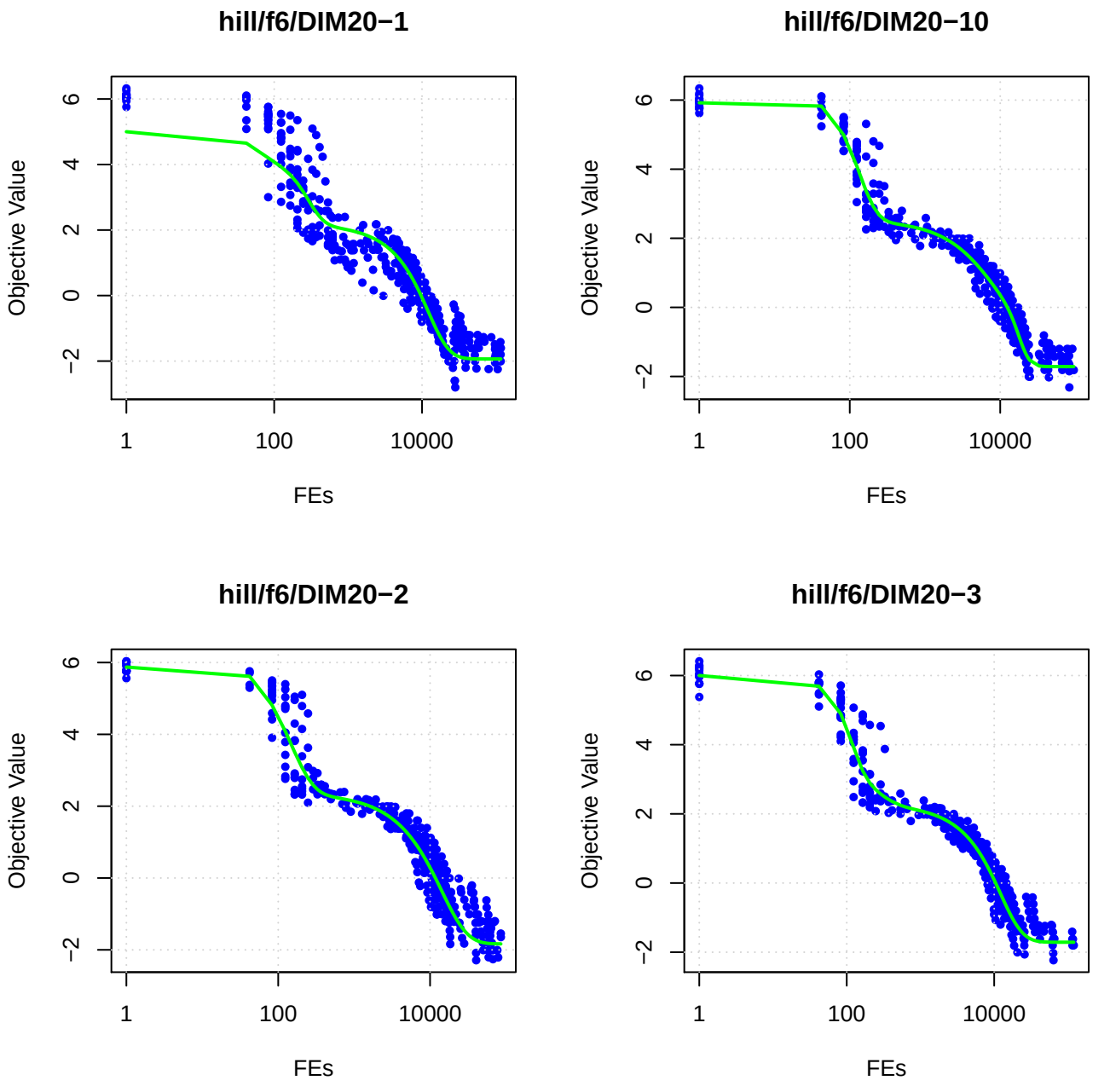
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hill/f6/DIM20−10
hill/f6/DIM20−2
hill/f6/DIM20−3
Objective Value
FEs
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−2
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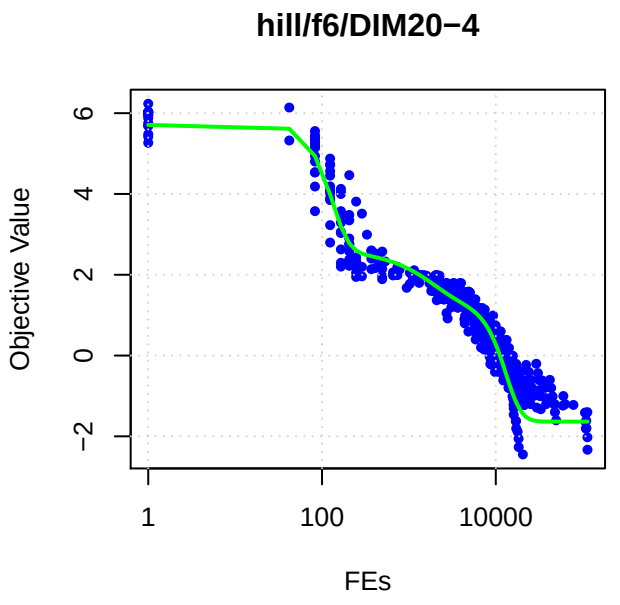
2
4
6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Objective Value
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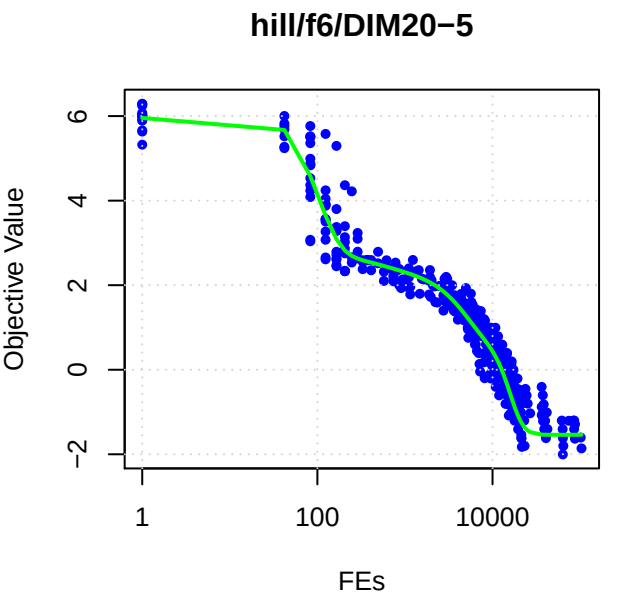
FEs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Objective Value
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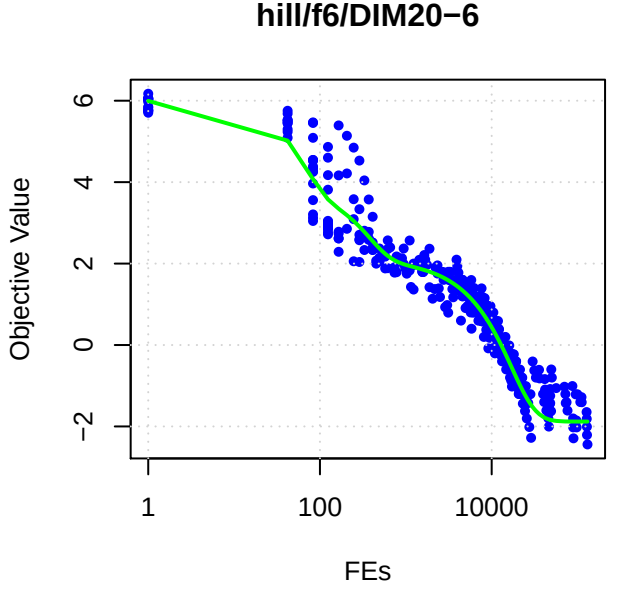
FEs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Objective Value
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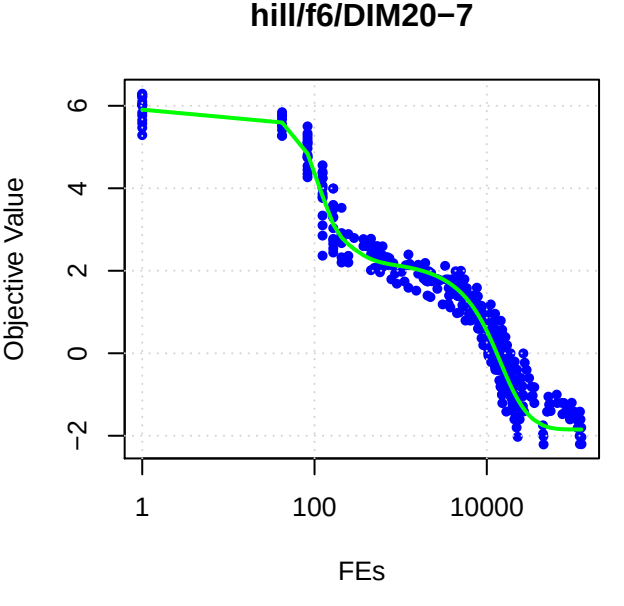
FEs


hill/f6/DIM20−7
Objective Value
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−2
1
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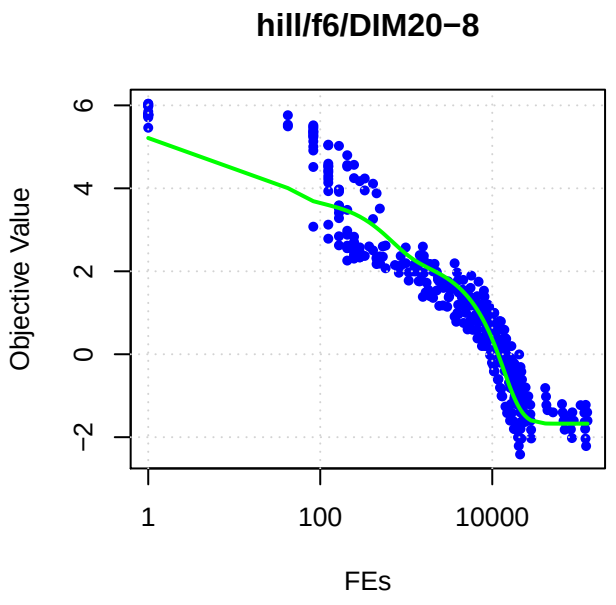
FEs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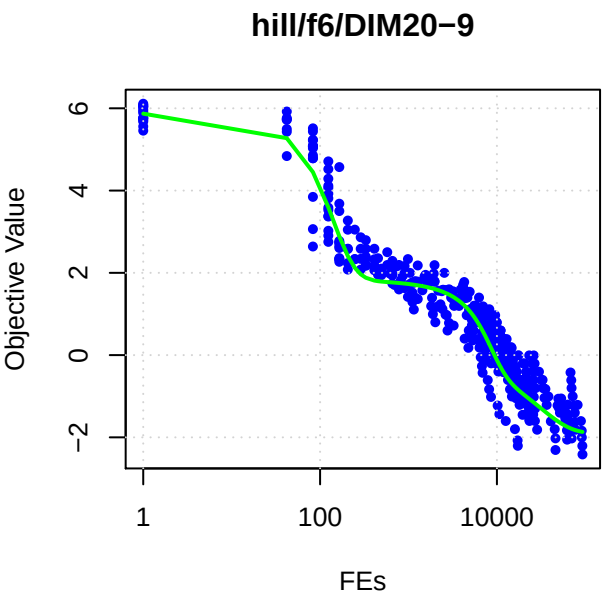
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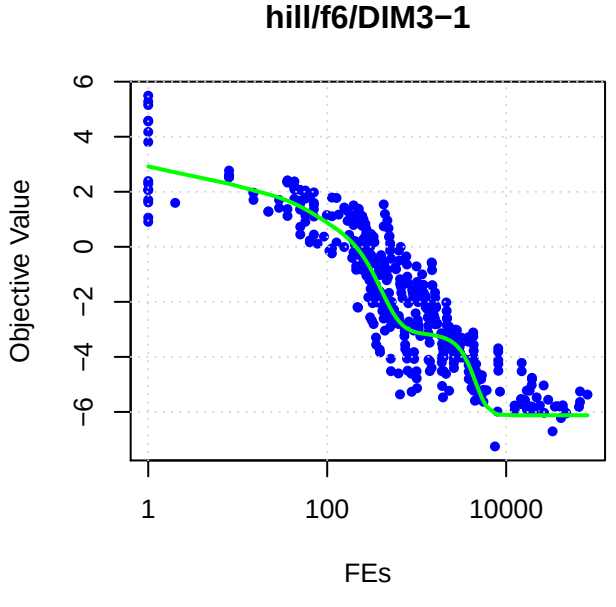
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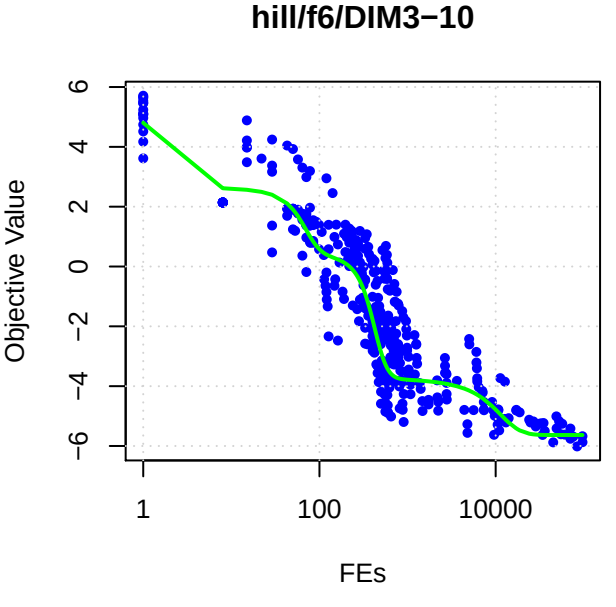
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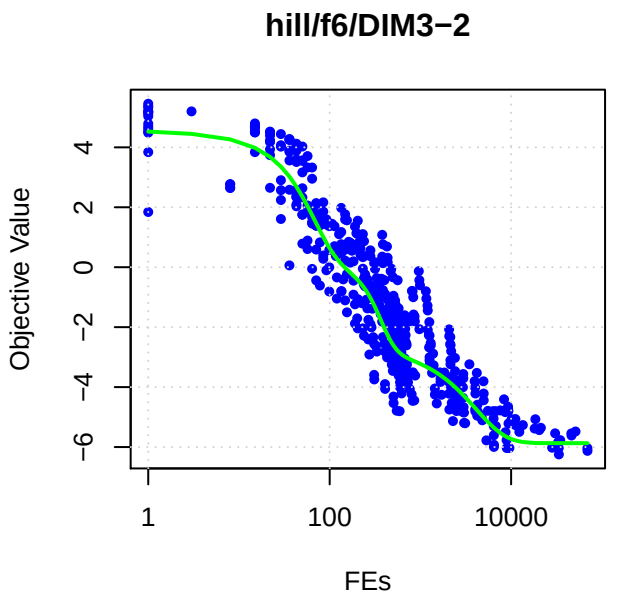
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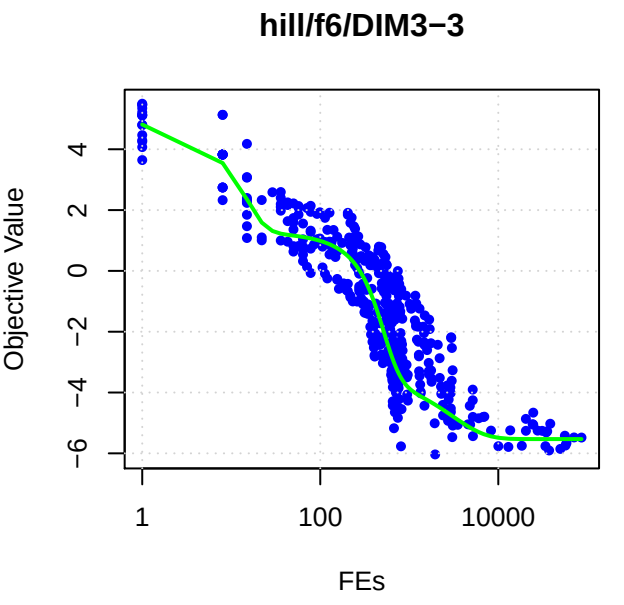
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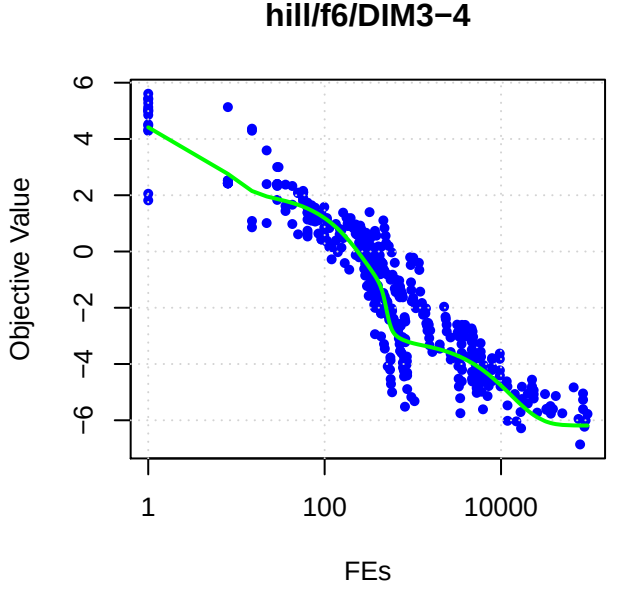
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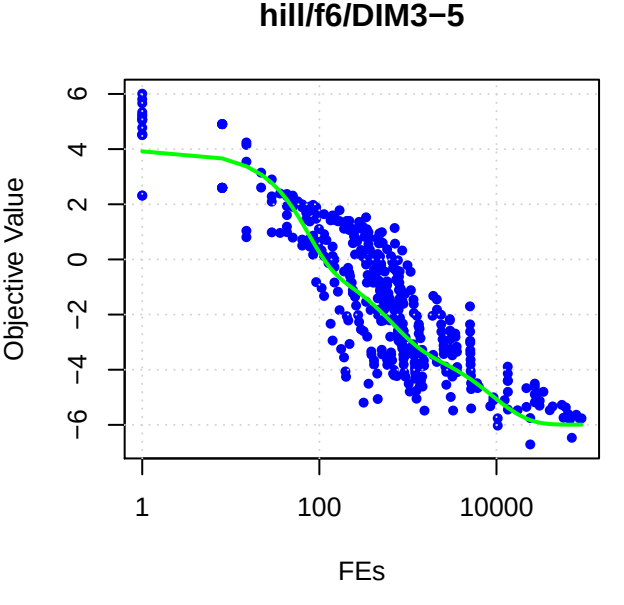
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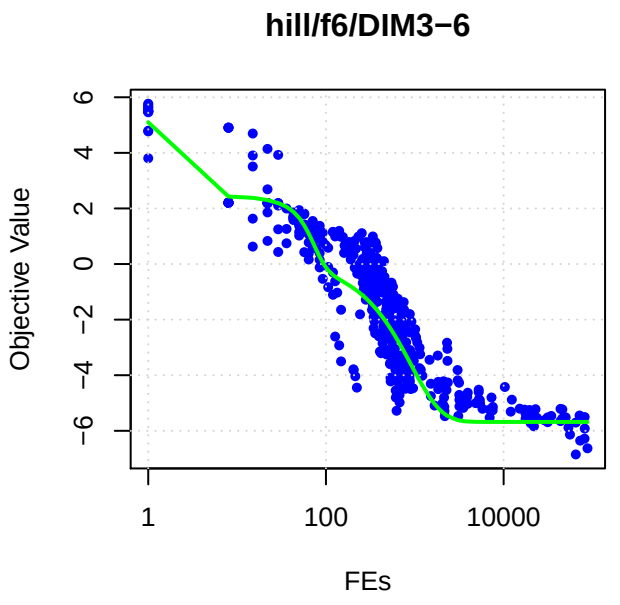
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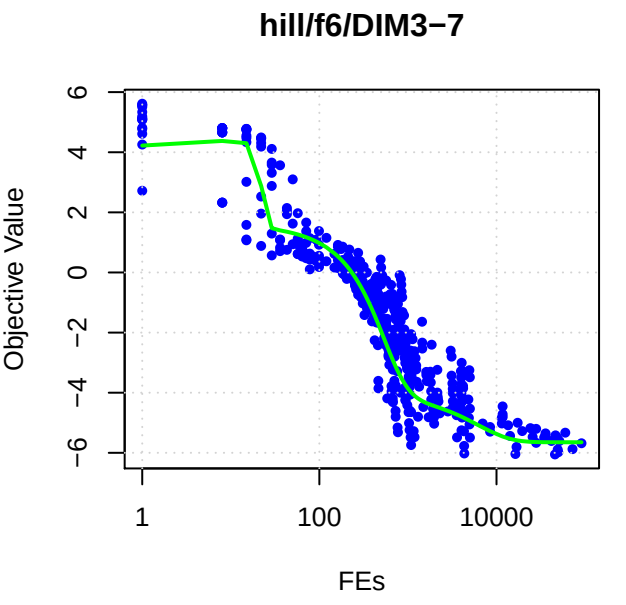
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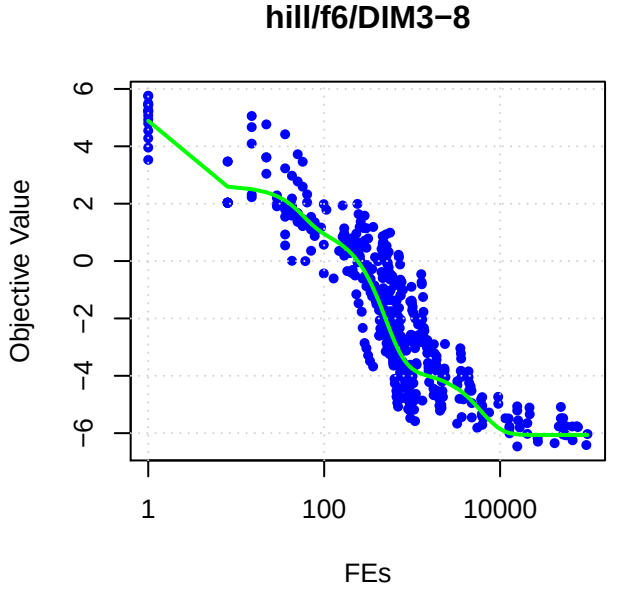
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Objective Value
FEs
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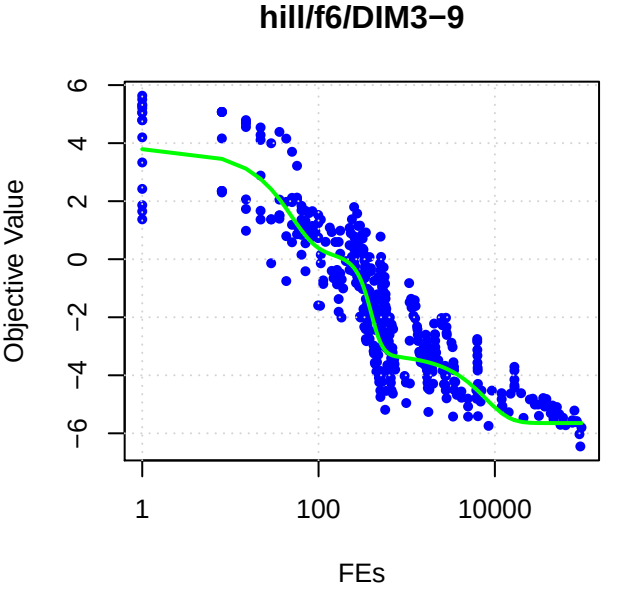
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Objective Value
FEs
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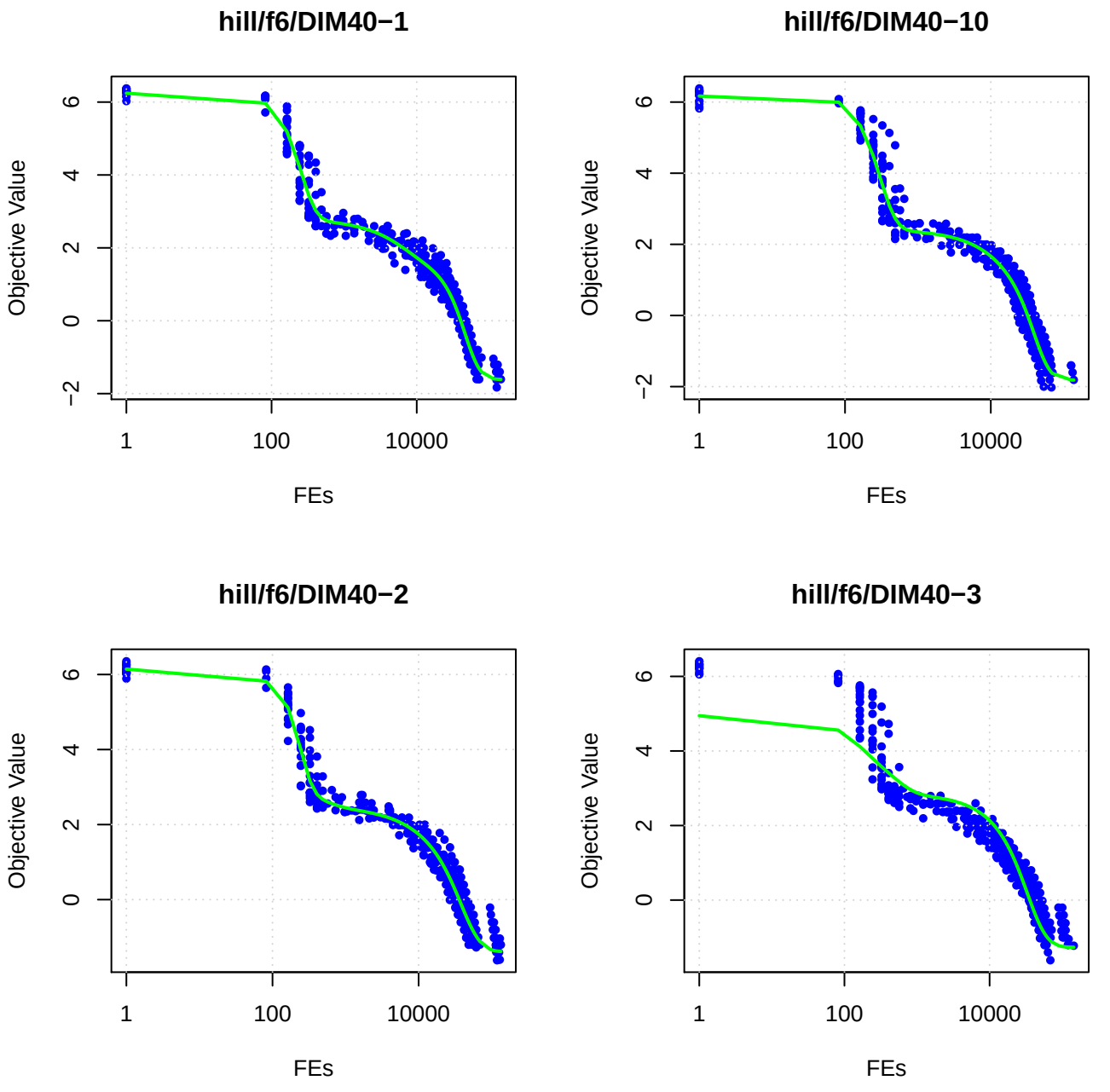
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hill/f6/DIM40−10
hill/f6/DIM40−2
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Objective Value
FEs
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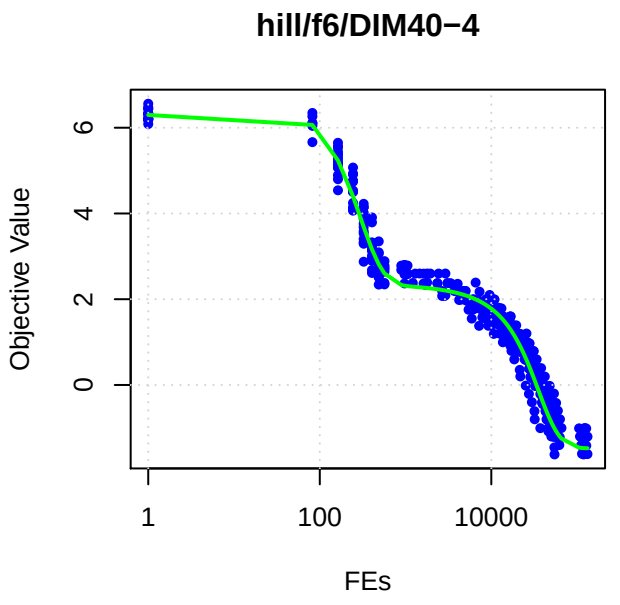
4
6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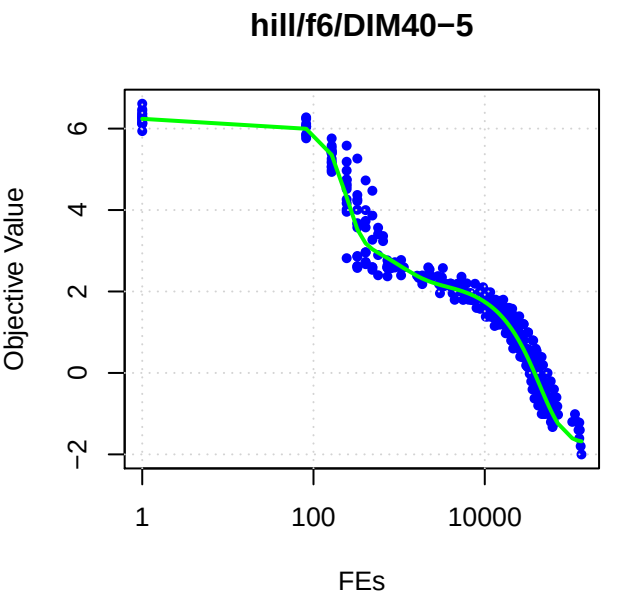
FEs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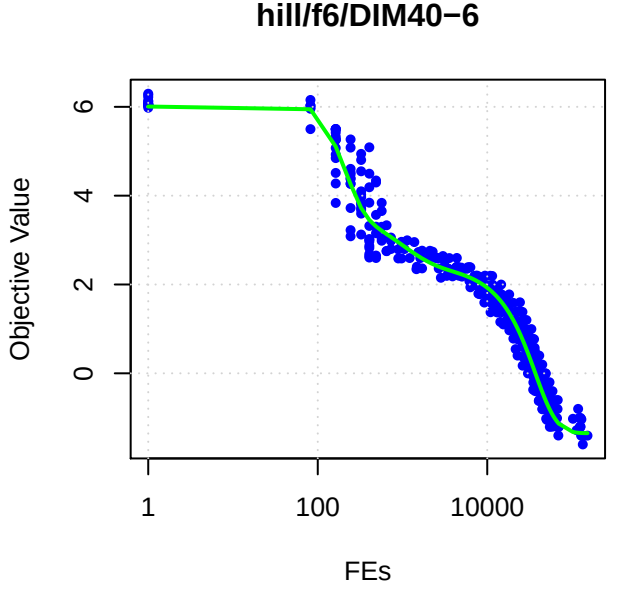
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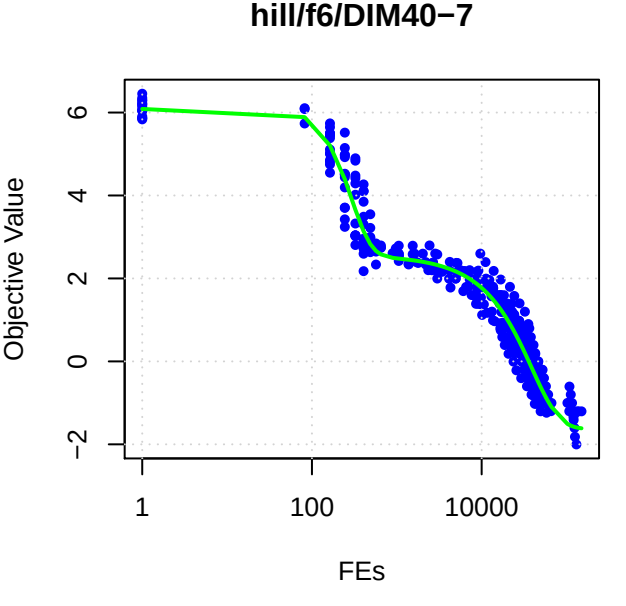
FEs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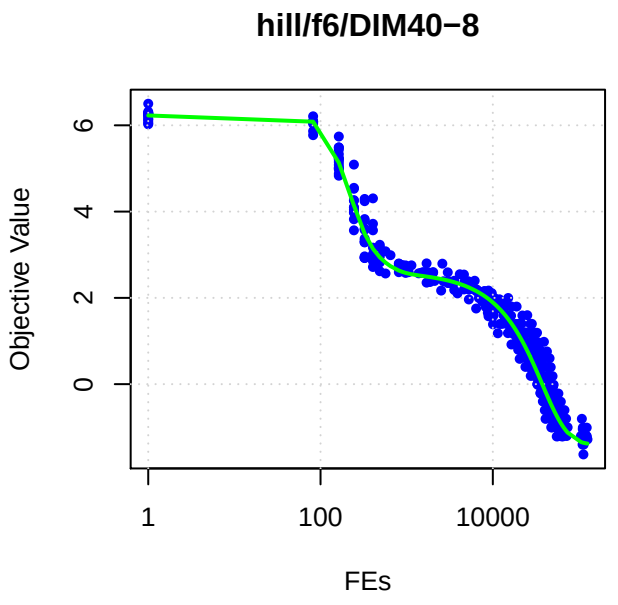
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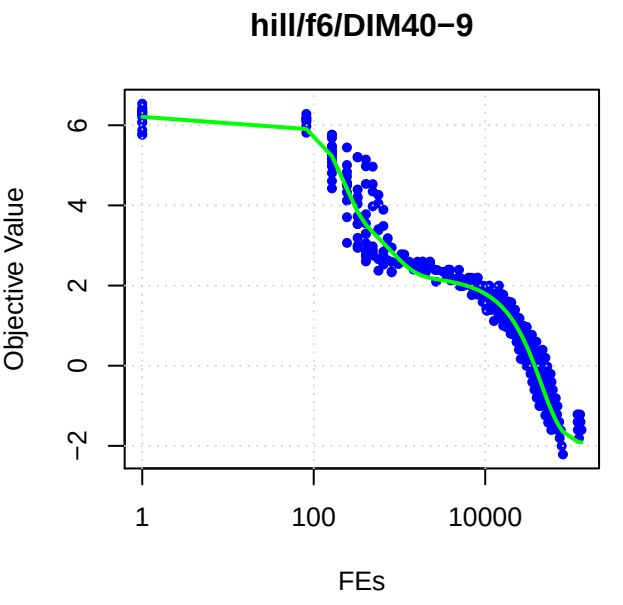
FEs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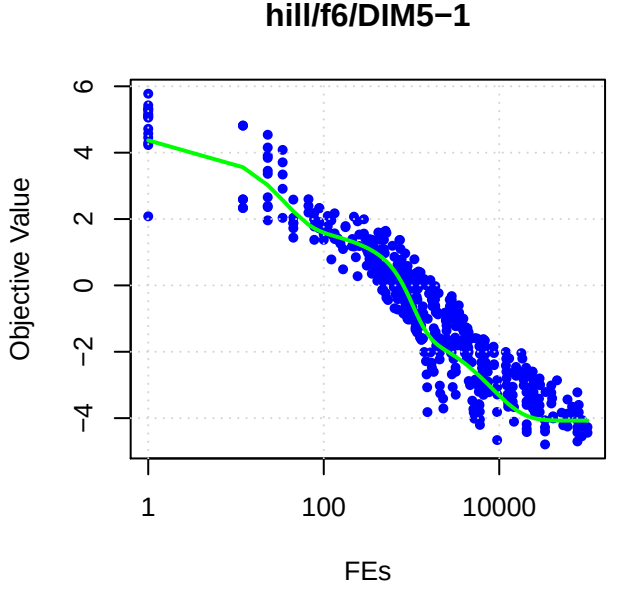
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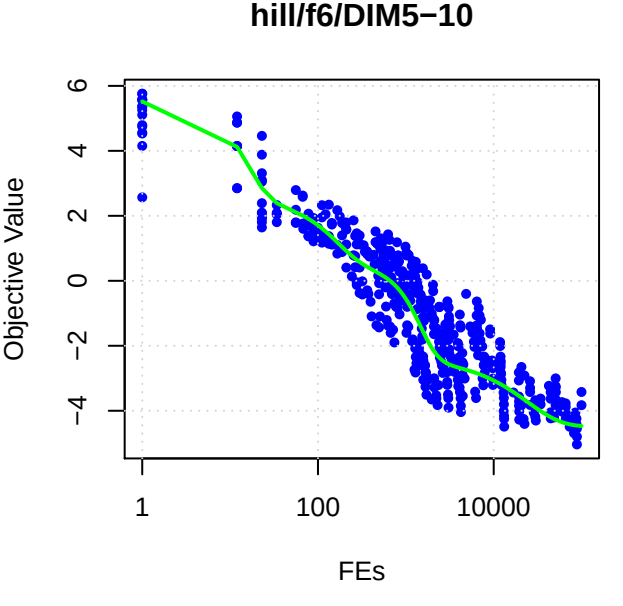
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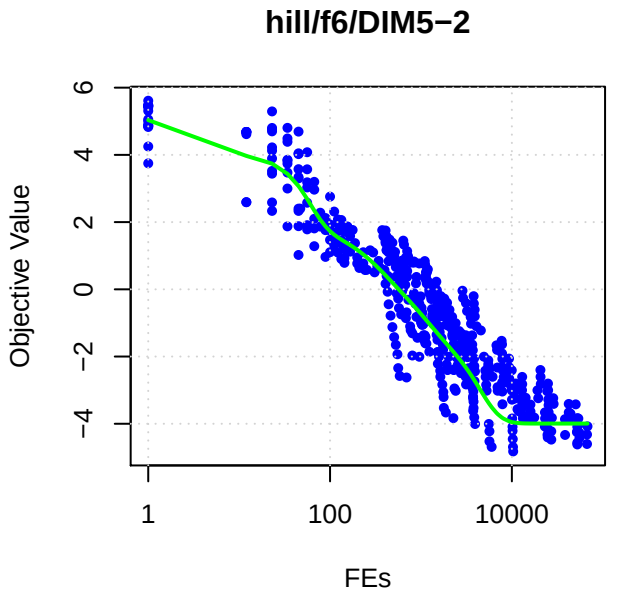
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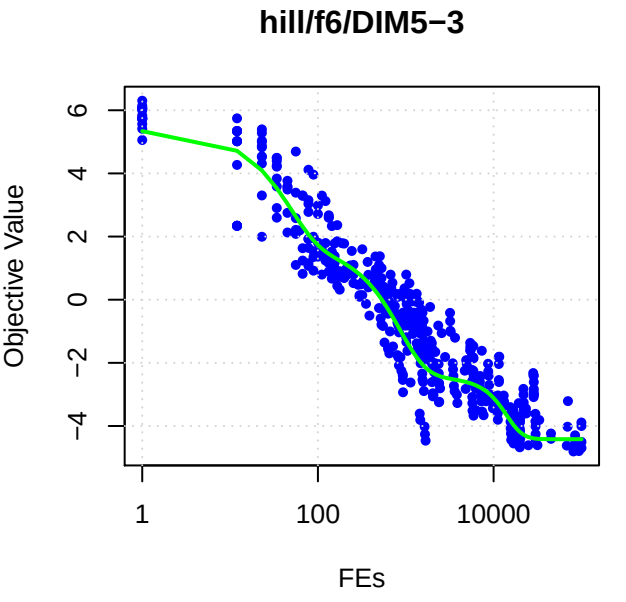
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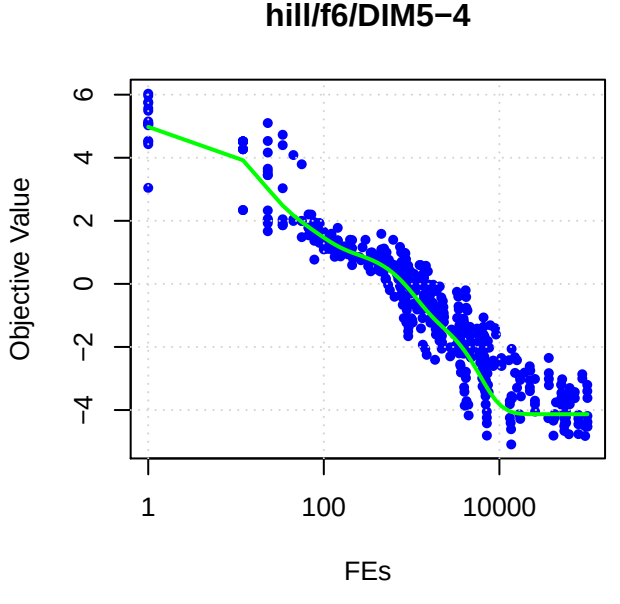
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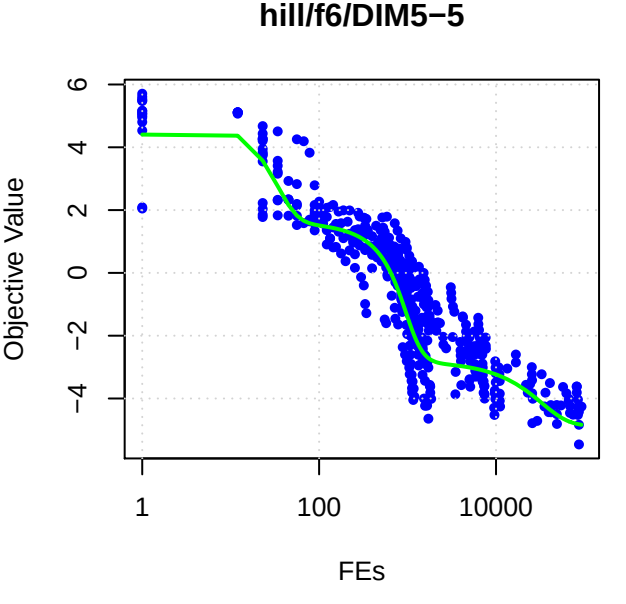
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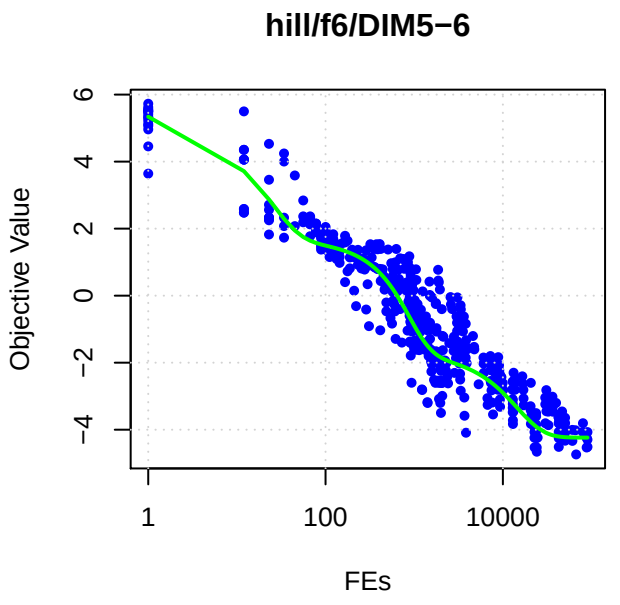
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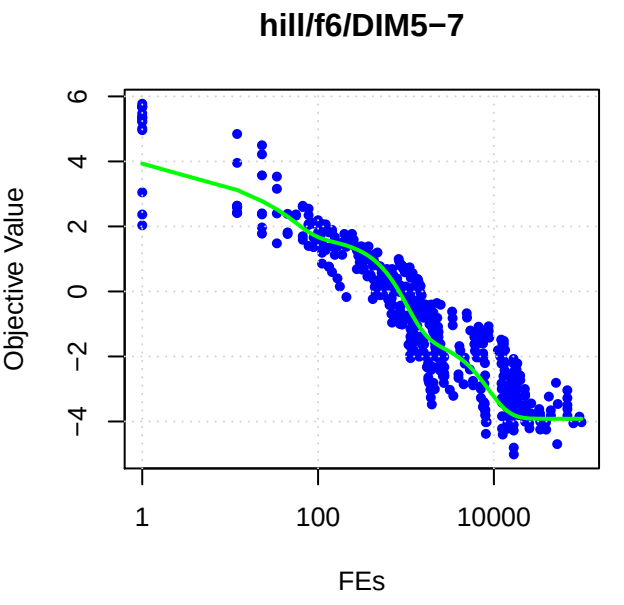
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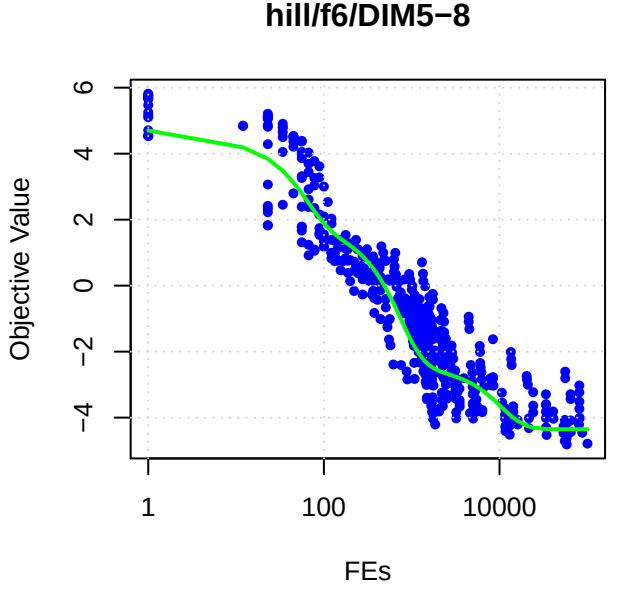
FEs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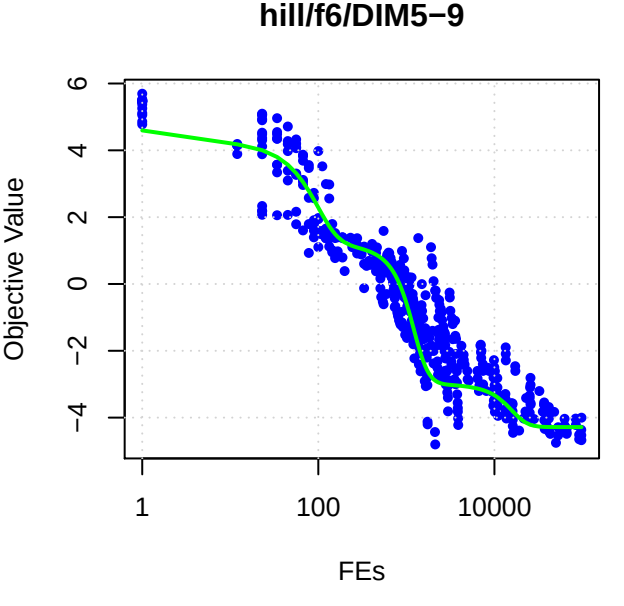
FEs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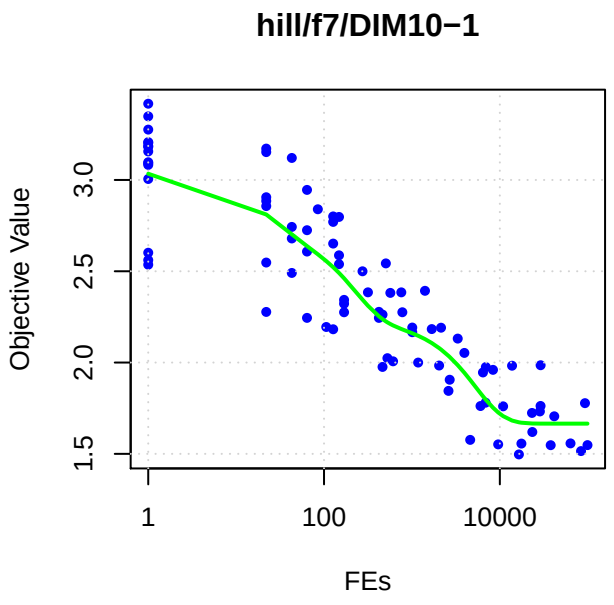
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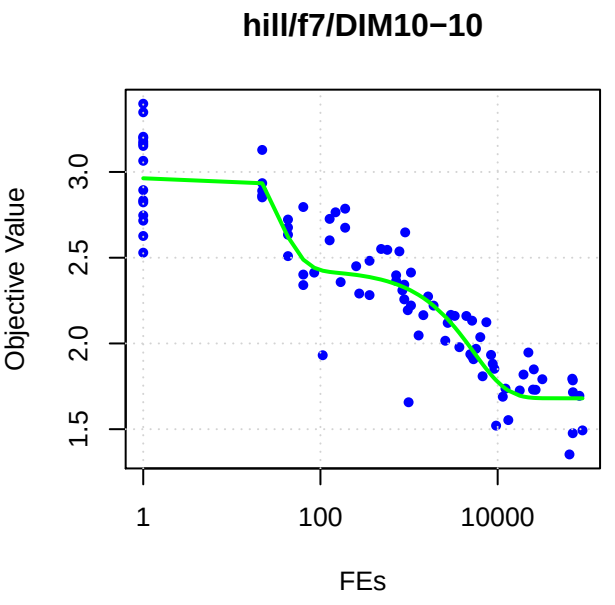
FEs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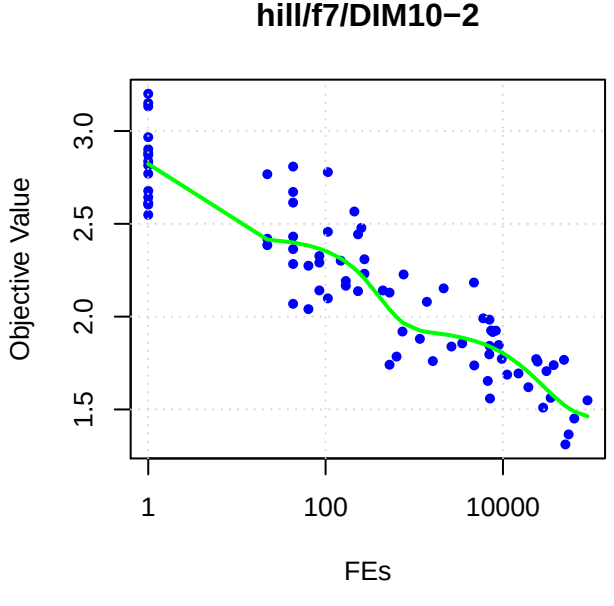
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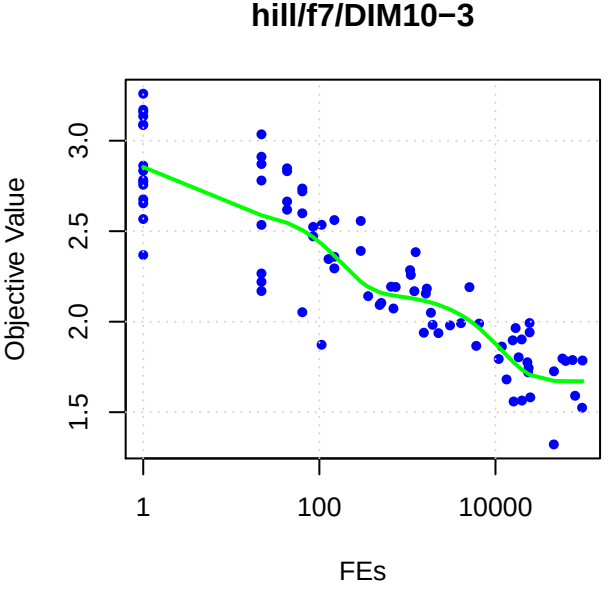
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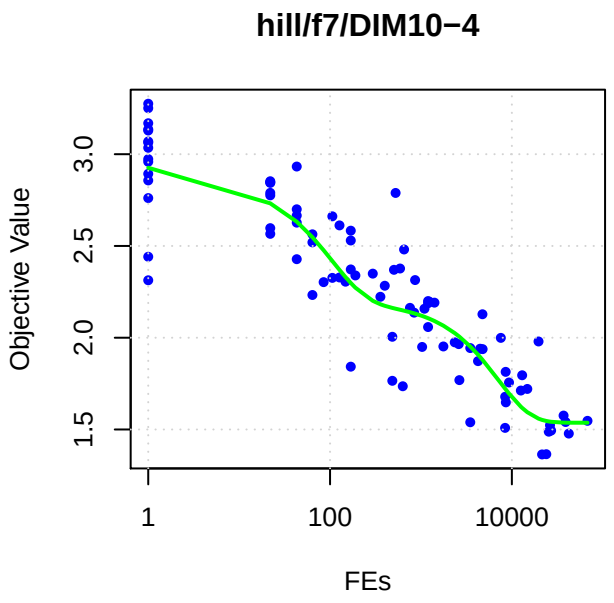
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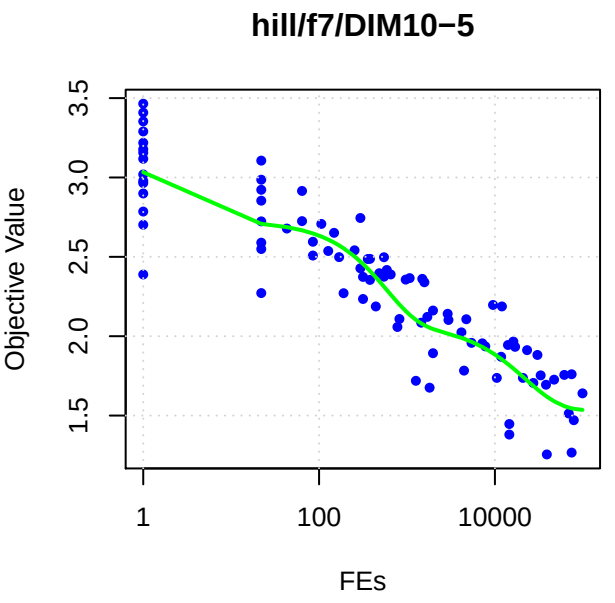
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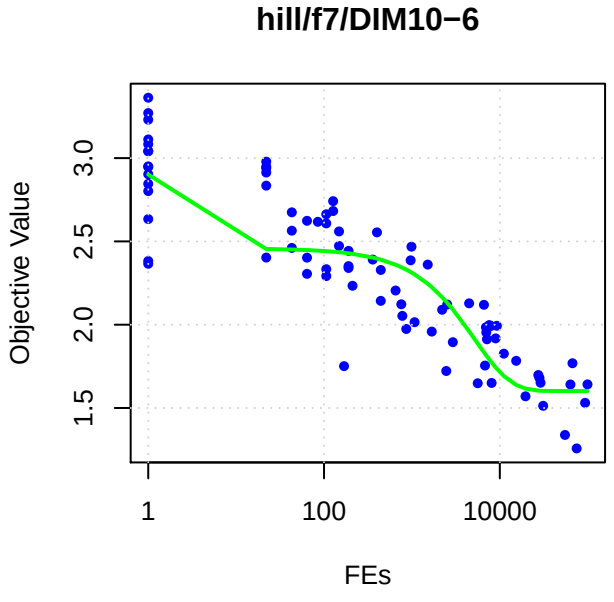
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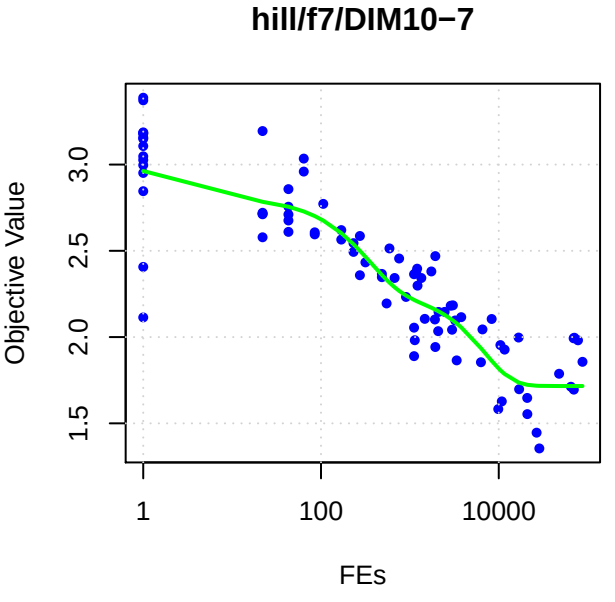
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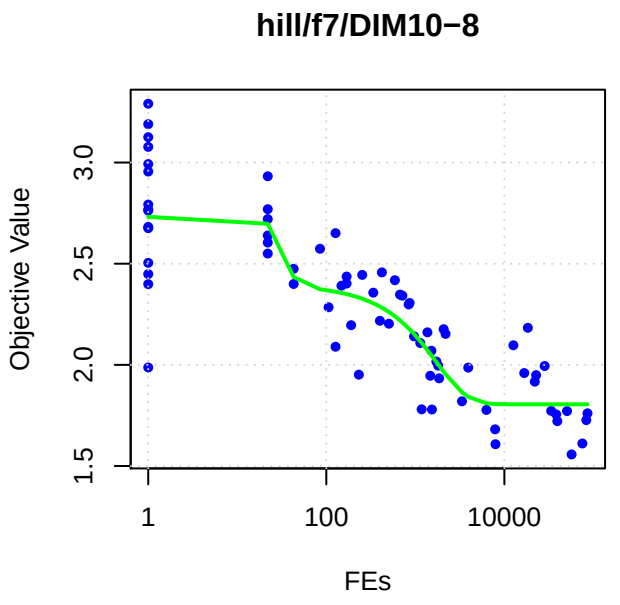
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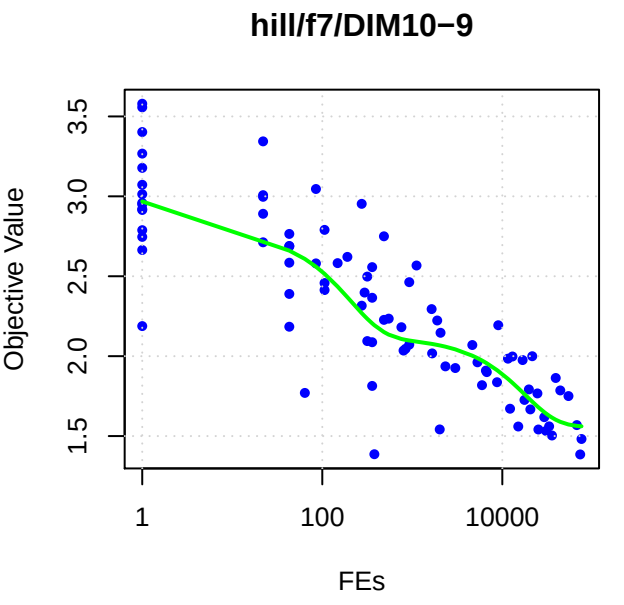
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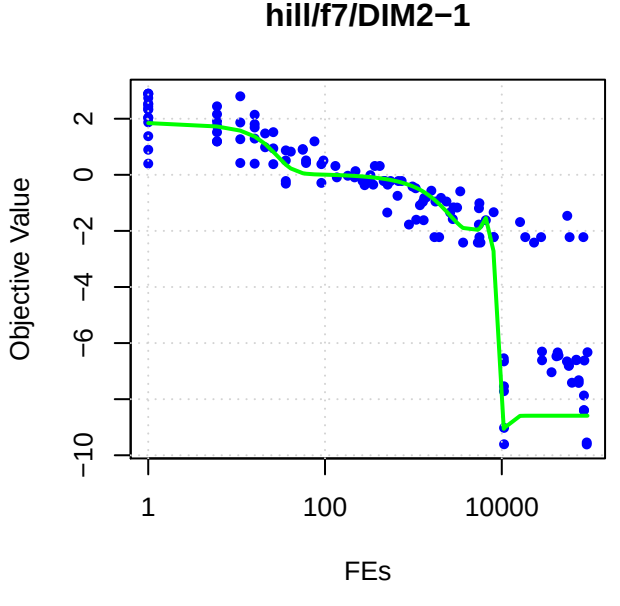
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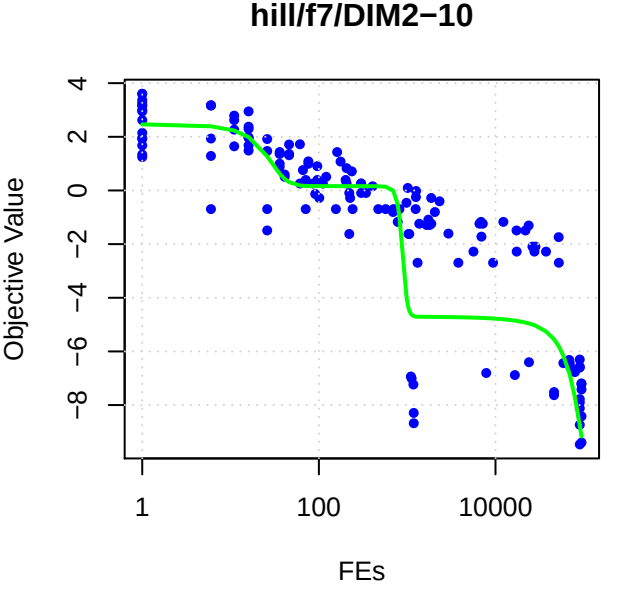
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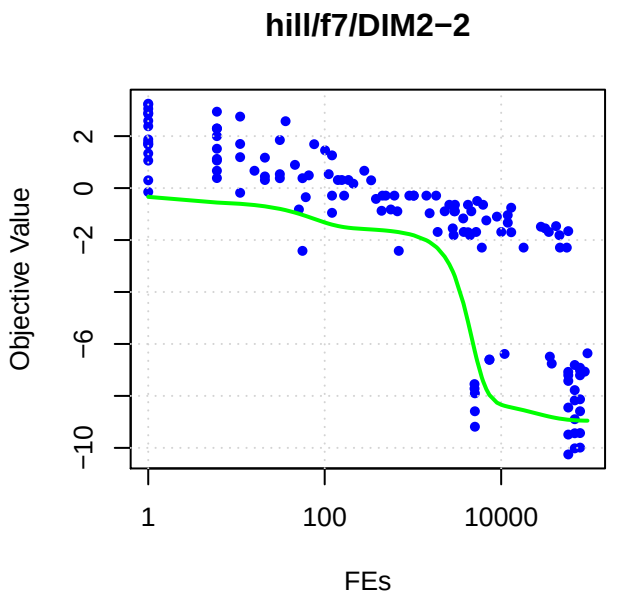
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Objective Value
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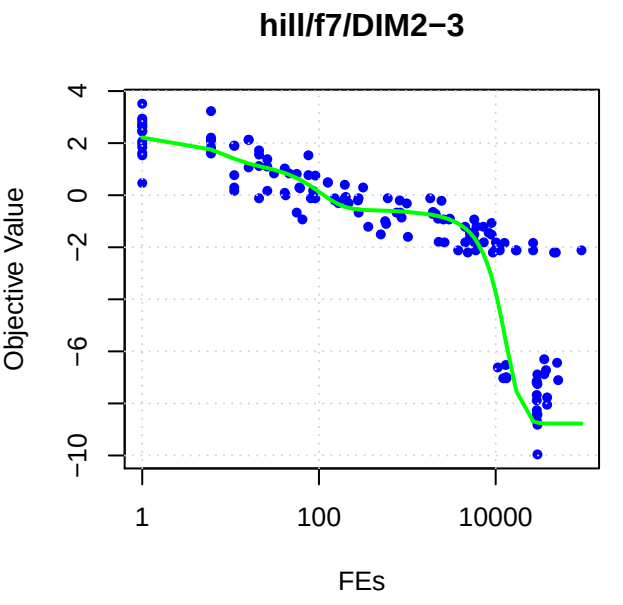
hill/f7/DIM2−3
Objective Value
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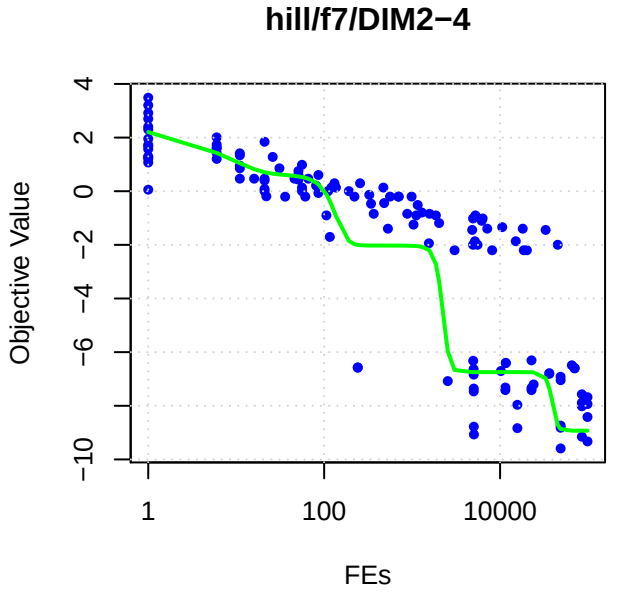
10000
FEs


hill/f7/DIM2−4
Objective Value
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−4
−6
−10
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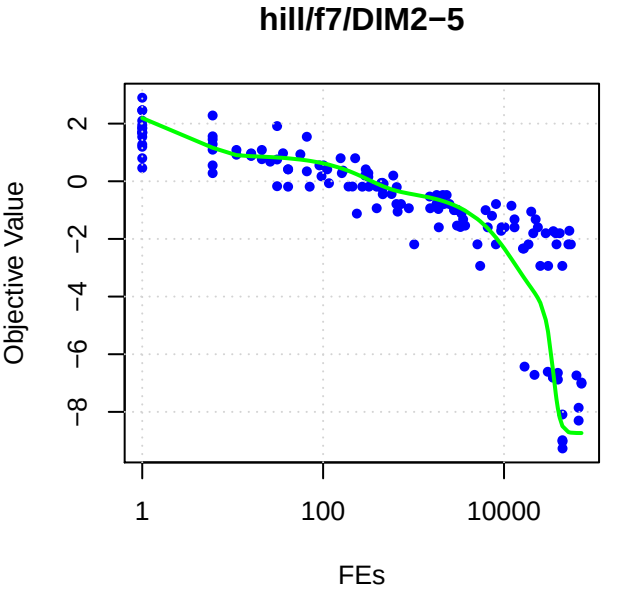
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Objective Value
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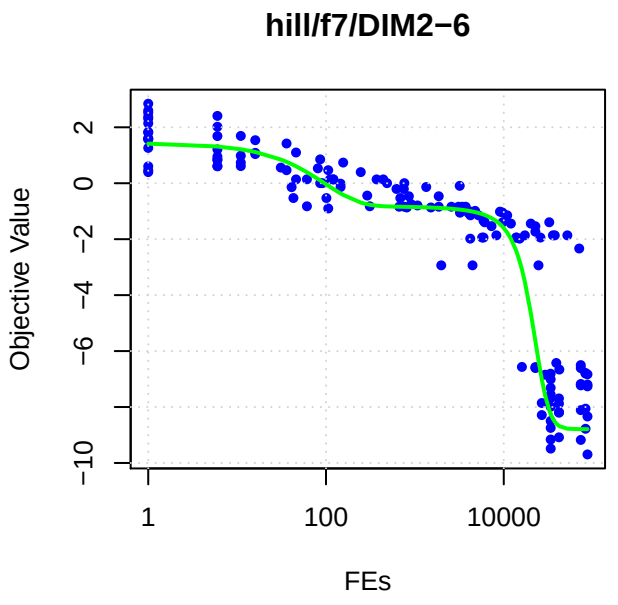
−2
−4
−6
−8
1
100
10000
FEs


hill/f7/DIM2−6
Objective Value
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−2
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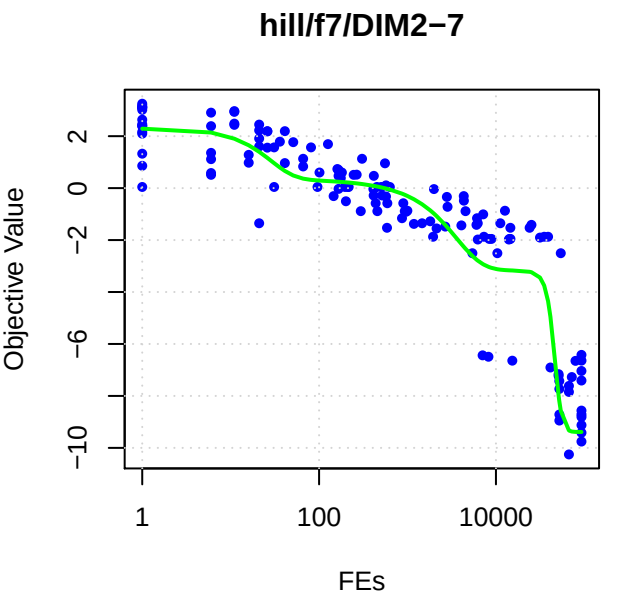
−6
−10
1
100
10000
FEs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−6
−10
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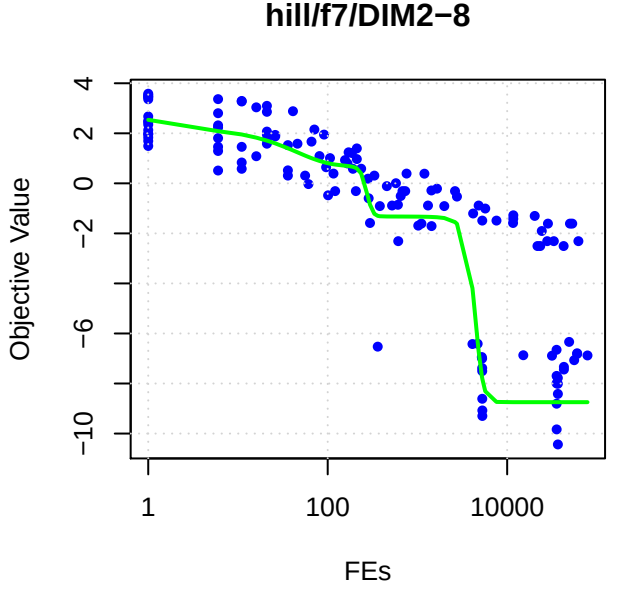
hill/f7/DIM2−8
Objective Value
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−2
−6
−10
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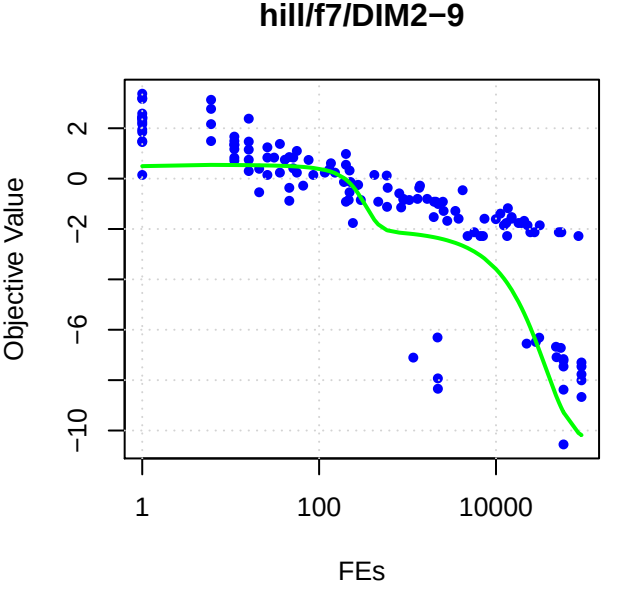
10000
FEs


hill/f7/DIM2−9
Objective Value
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−10
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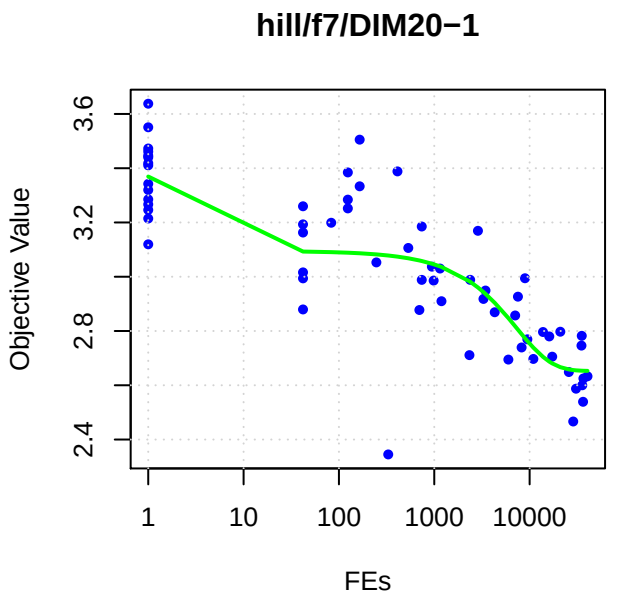
FEs


hill/f7/DIM20−1
Objective Value
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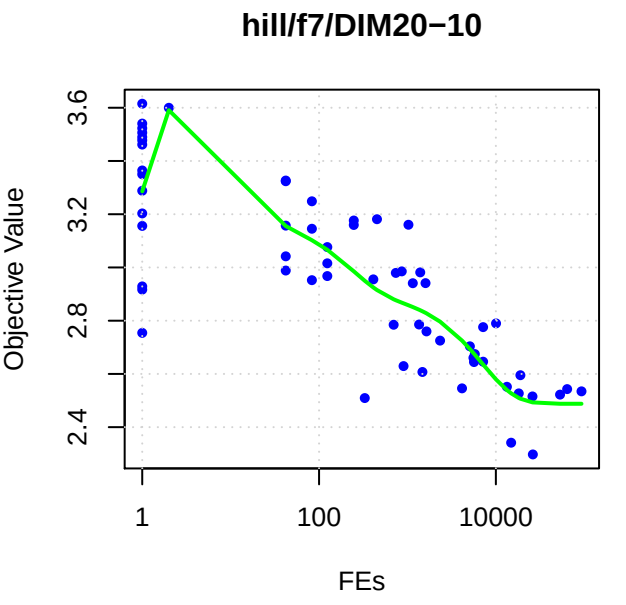
3.2
2.8
2.4
1
10
100
1000
10000
FEs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2.8
2.4
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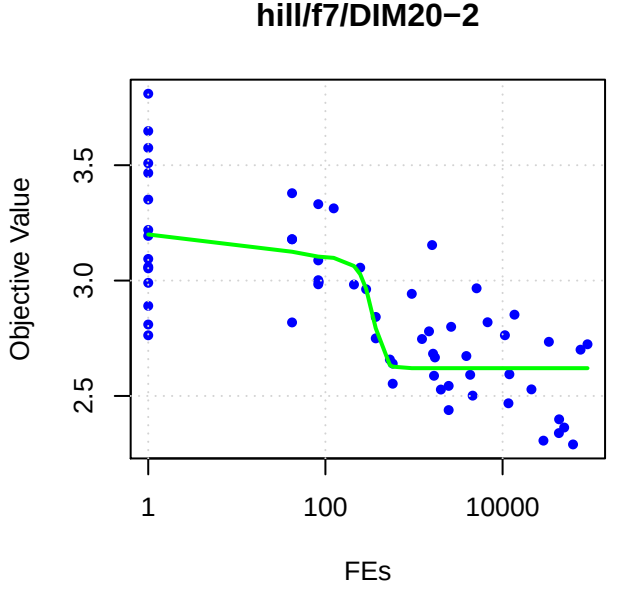
10000
FEs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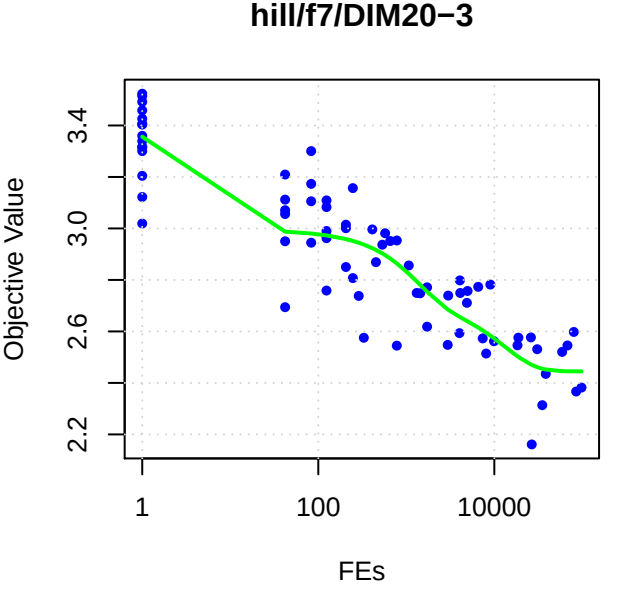
FEs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Objective Value
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2.6
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1
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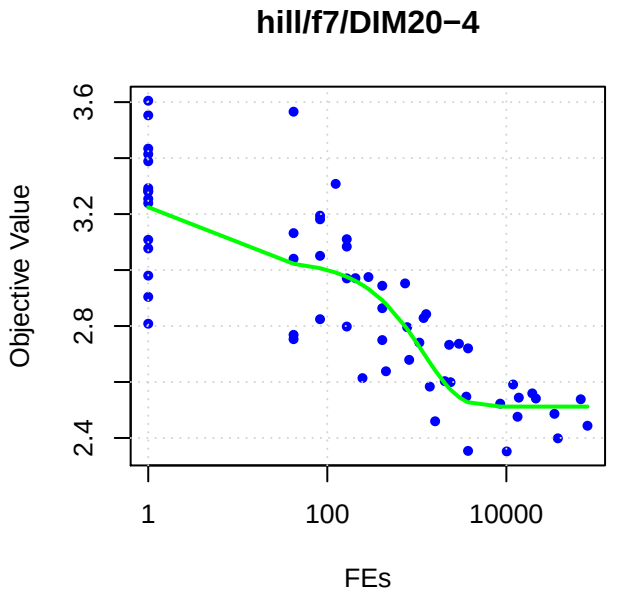
10000
FEs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Objective Value
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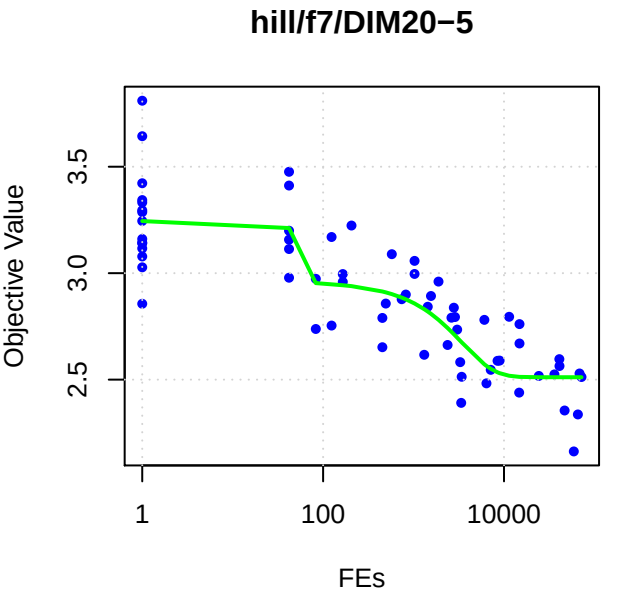
2.8
2.4
1
100
10000
FEs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Objective Value
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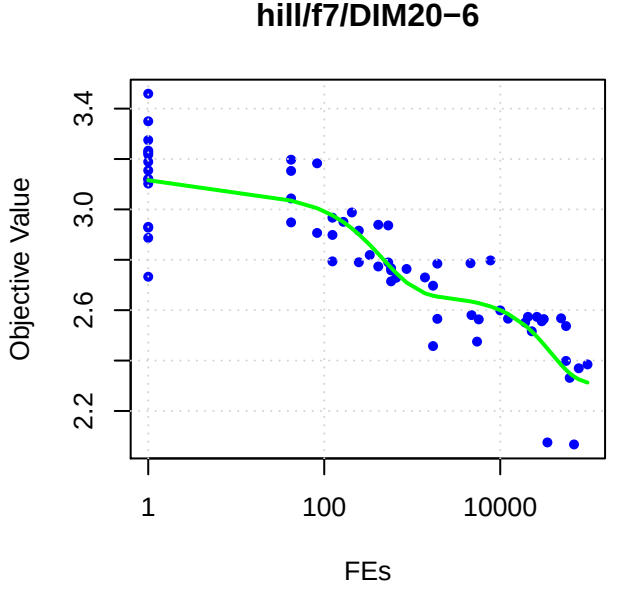
FEs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Objective Value
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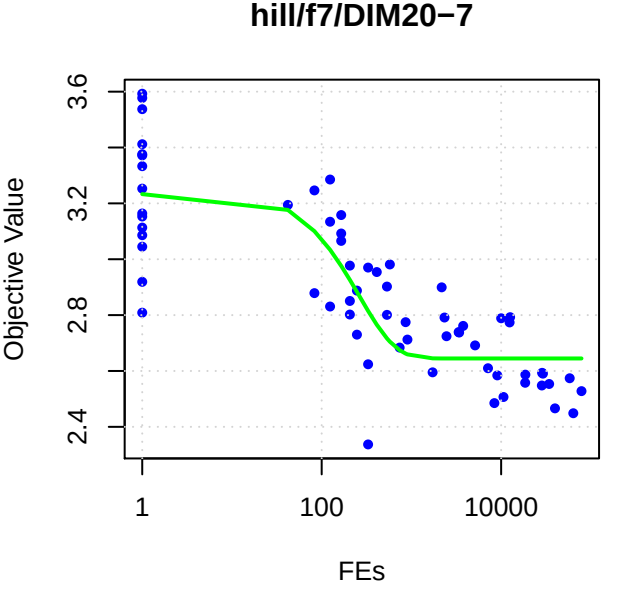
2.6
2.2
1
100
10000
FEs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Objective Value
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2.8
2.4
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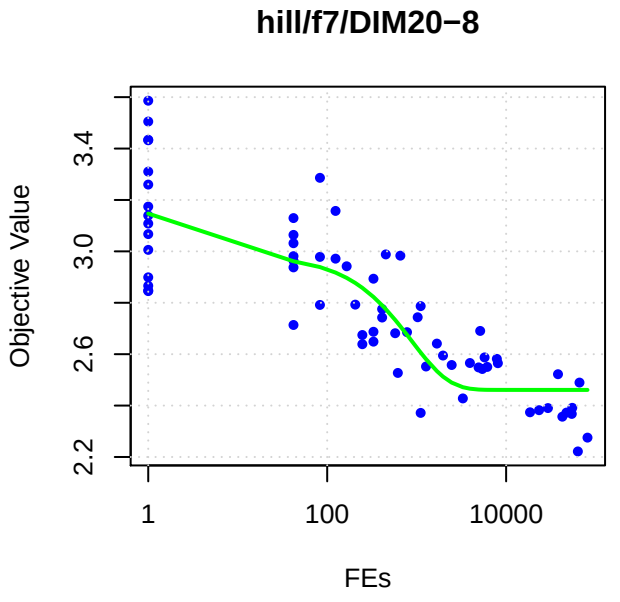
10000
FEs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Objective Value
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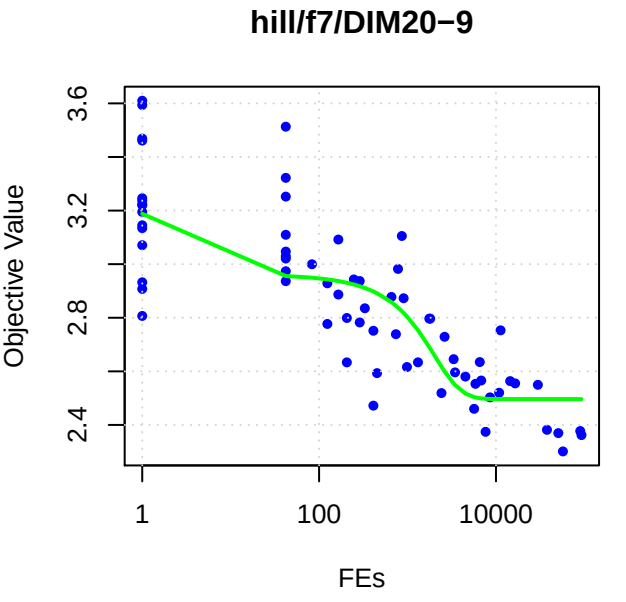
10000
FEs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Objective Value
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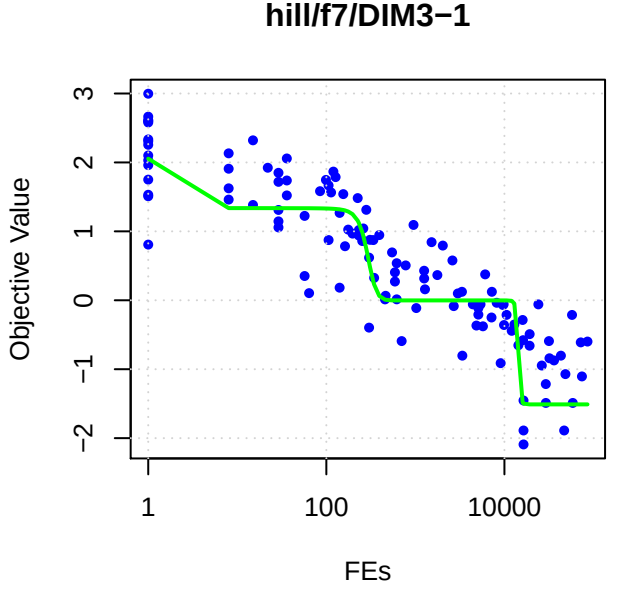
10000
FEs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Objective Value
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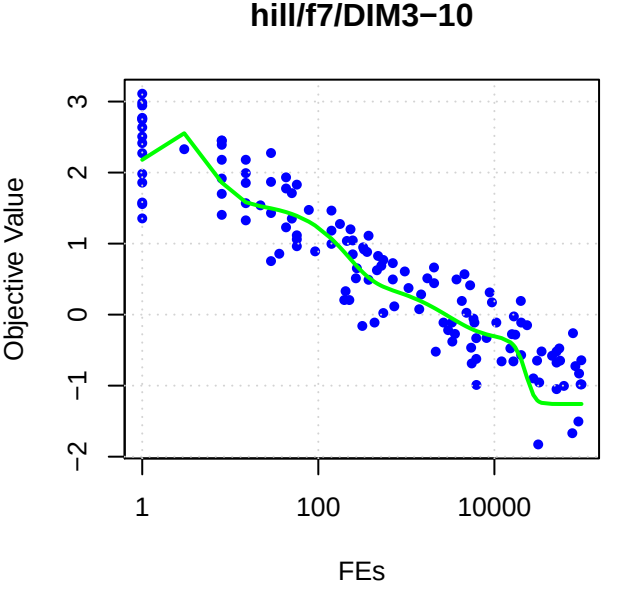
10000
FEs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Objective Value
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1
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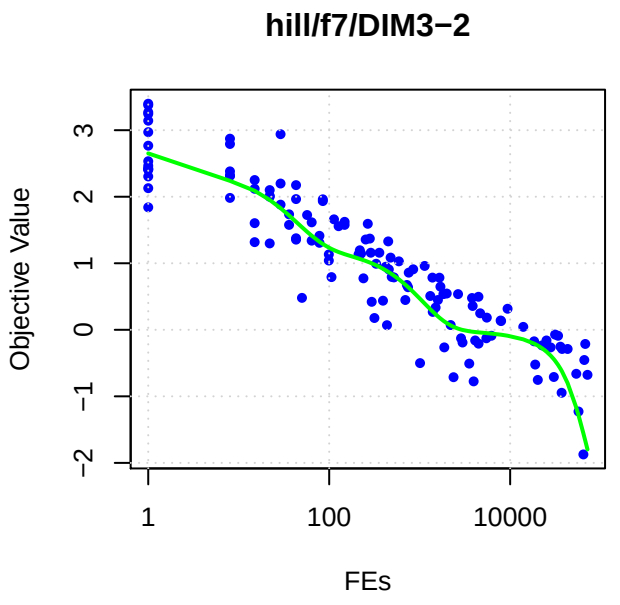
FEs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Objective Value
FEs
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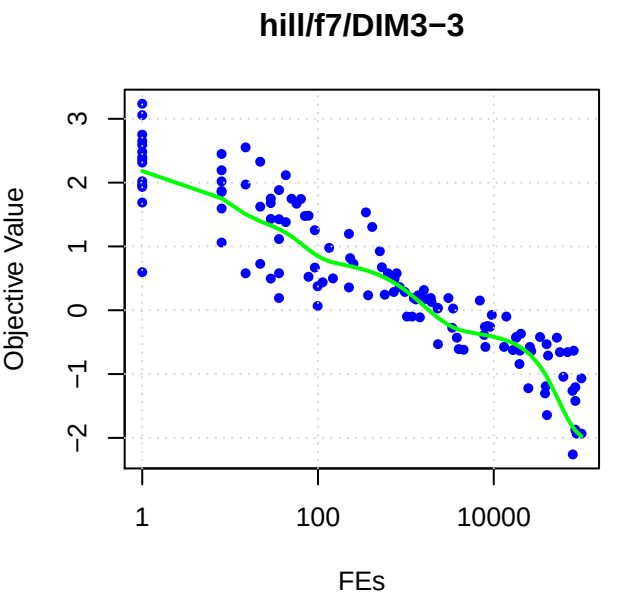
1
2
3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Objective Value
FEs
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10000
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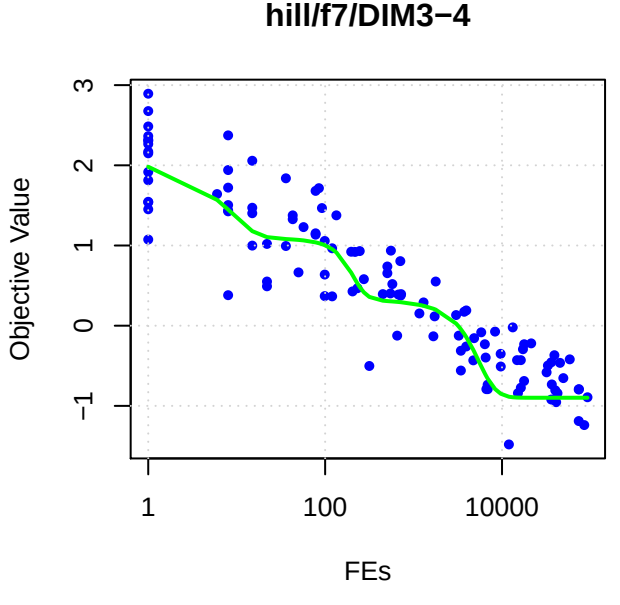
2
3


hill/f7/DIM3−4
Objective Value
FEs
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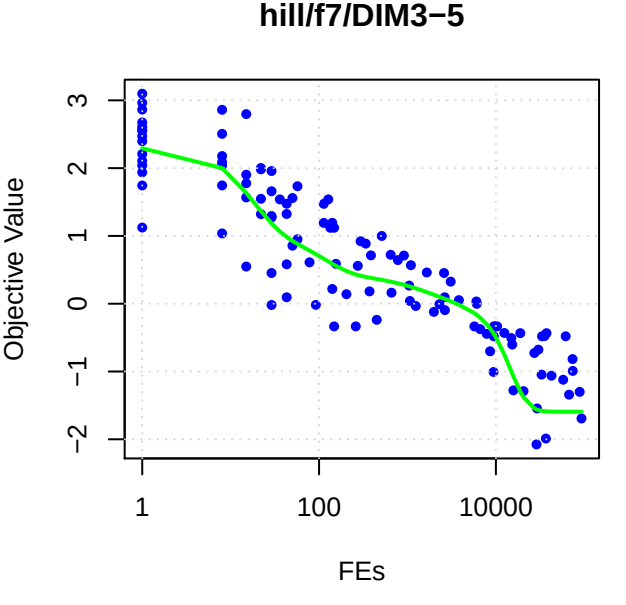
100
10000
−1
0
1
2
3


hill/f7/DIM3−5
Objective Value
FEs
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100
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−1
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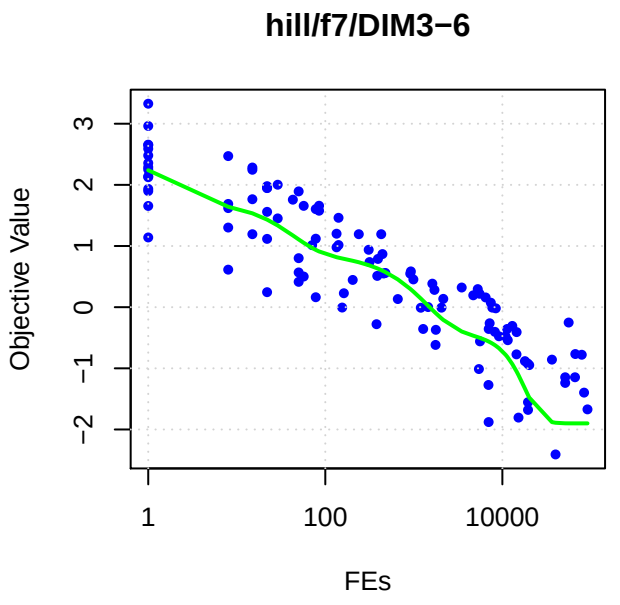
1
2
3


hill/f7/DIM3−6
Objective Value
FEs
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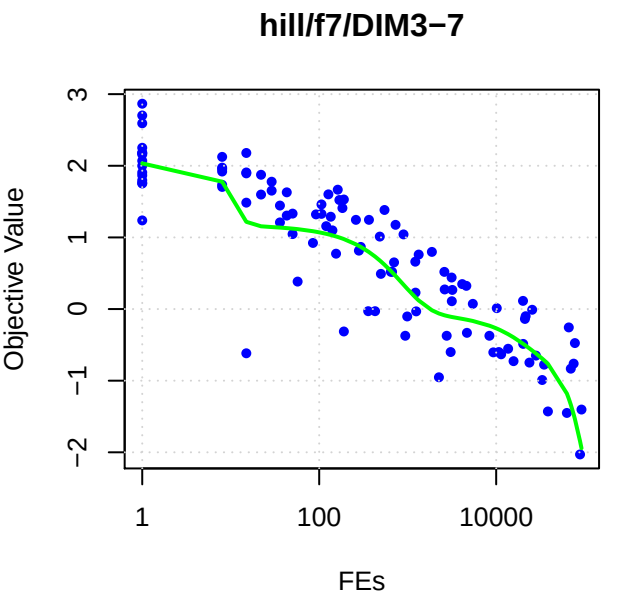
10000
−2
−1
0
1
2
3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Objective Value
FEs
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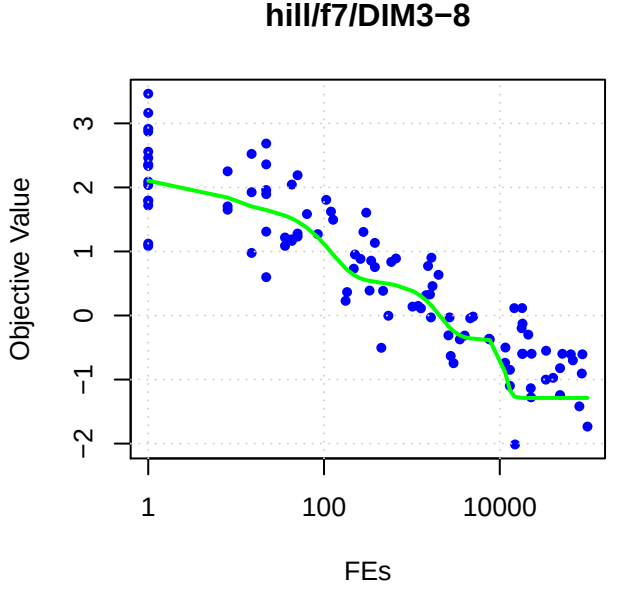
2
3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Objective Value
FEs
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2
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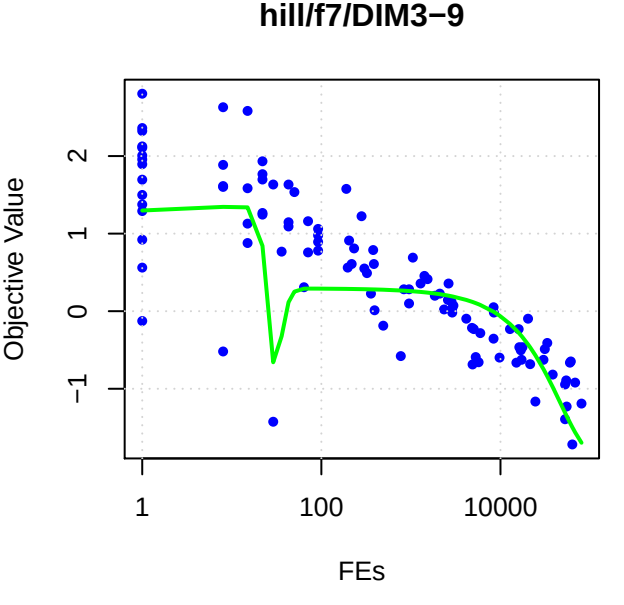
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Objective Value
FEs
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−1
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1
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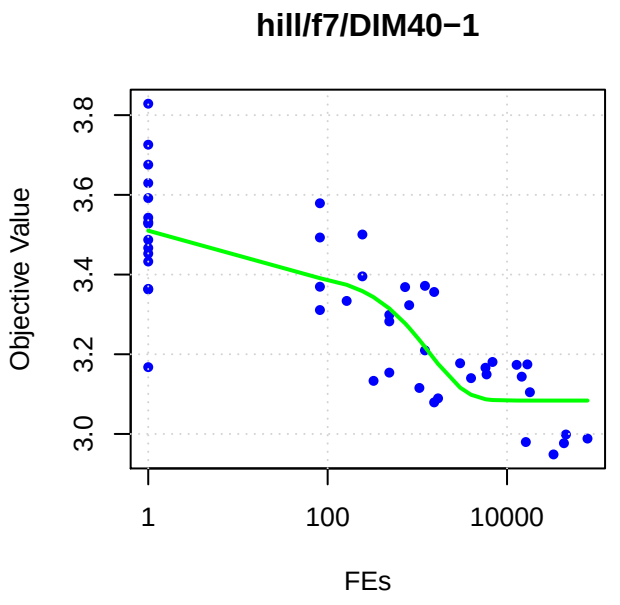
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Objective Value
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3.6
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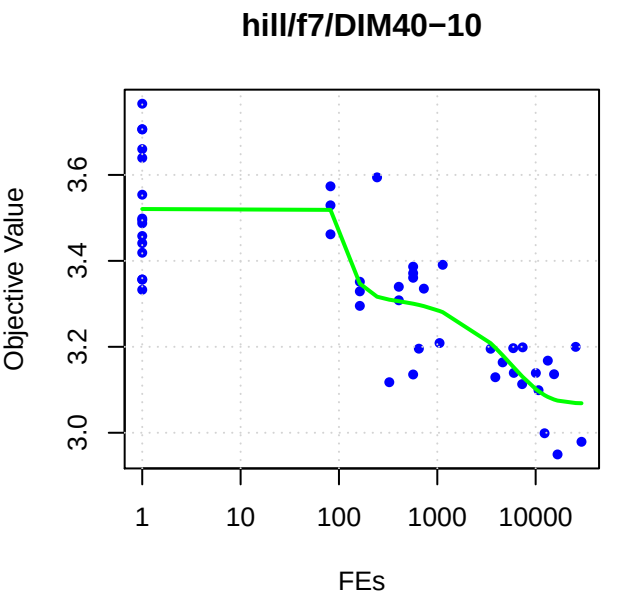
100
10000
FEs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Objective Value
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3.4
3.6
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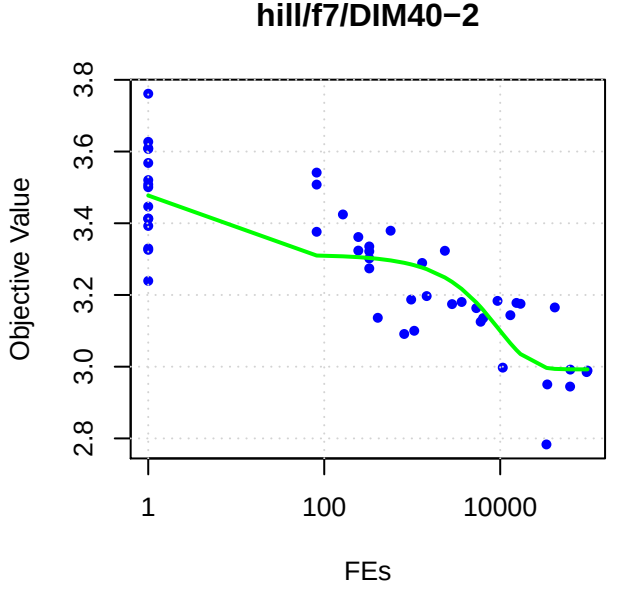
1000
10000
FEs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Objective Value
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3.4
3.6
3.8
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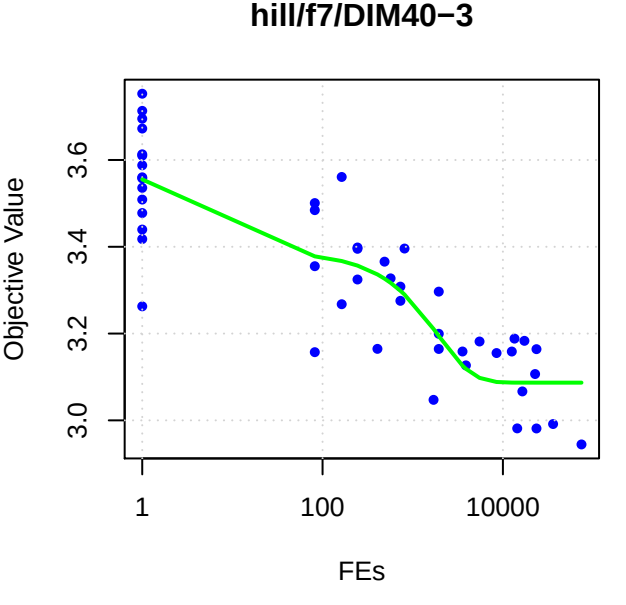
FEs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Objective Value
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3.4
3.6
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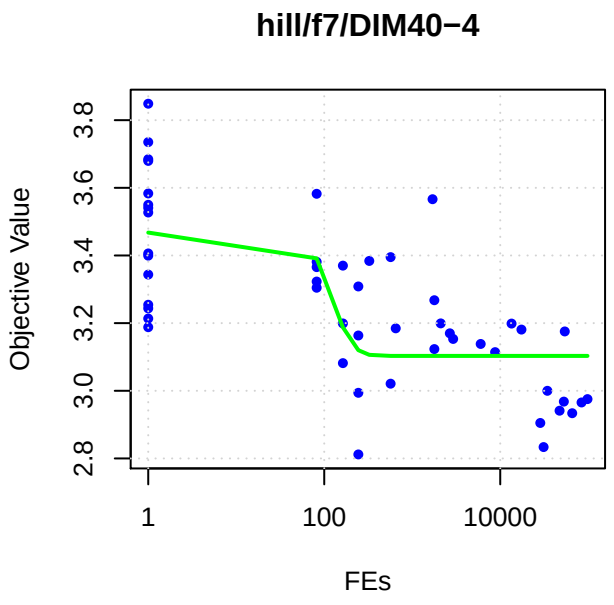
10000
FEs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Objective Value
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3.6
3.8
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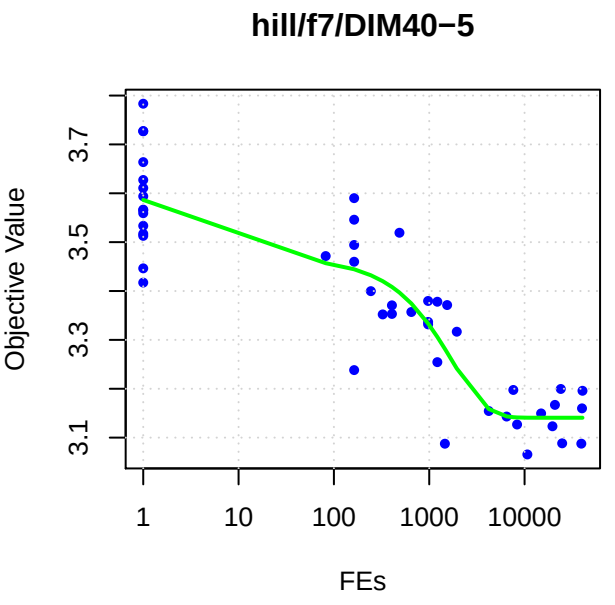
10000
FEs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Objective Value
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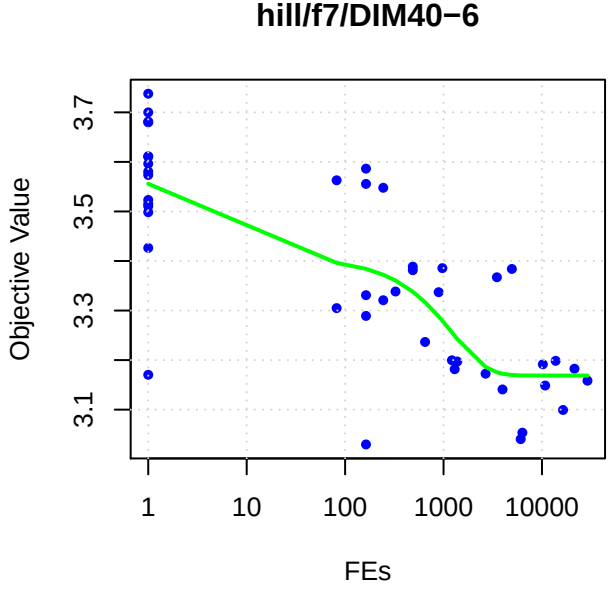
1000
10000
FEs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Objective Value
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3.5
3.7
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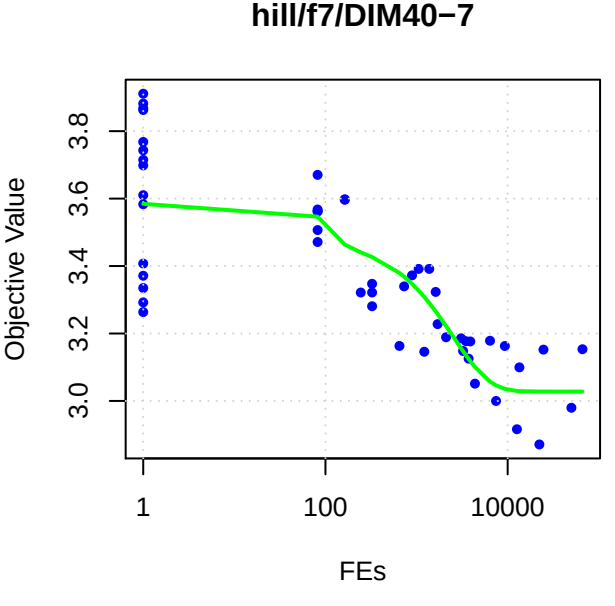
1000
10000
FEs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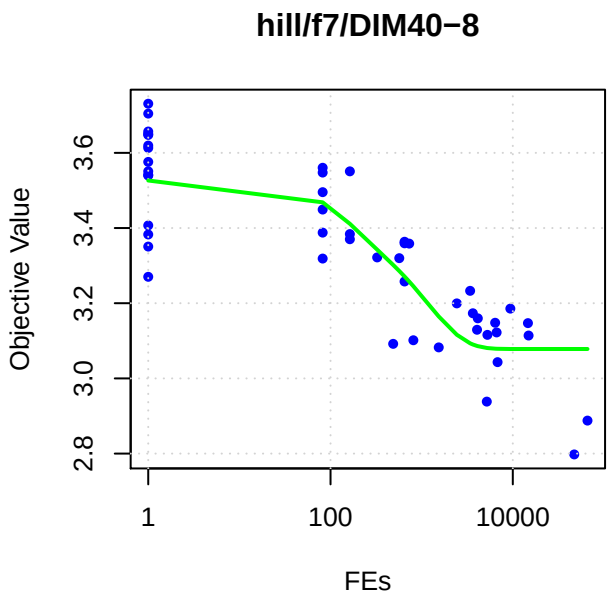
FEs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Objective Value
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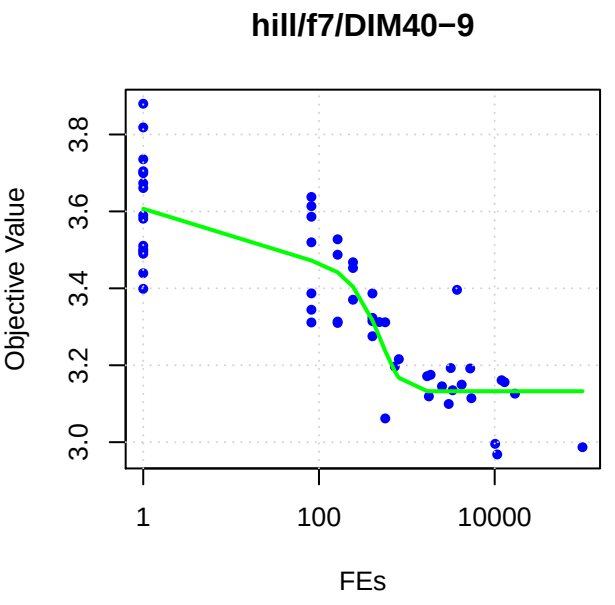
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Objective Value
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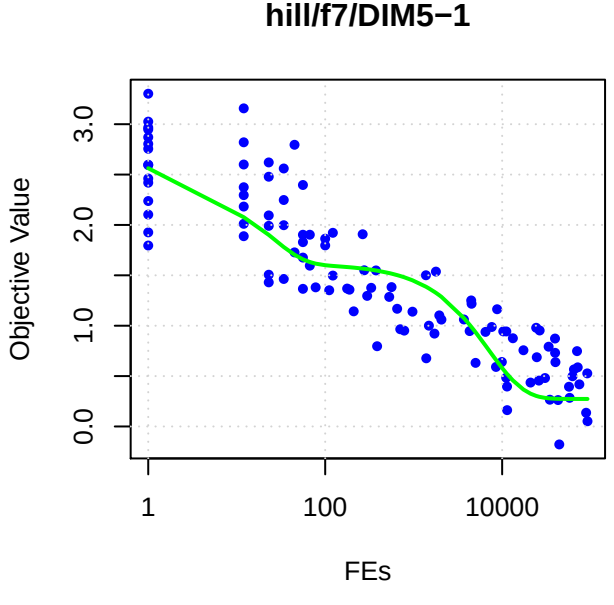
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Objective Value
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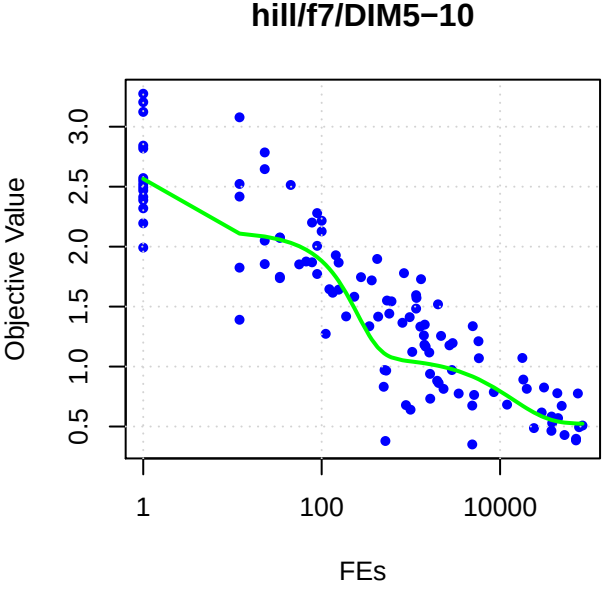
FEs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Objective Value
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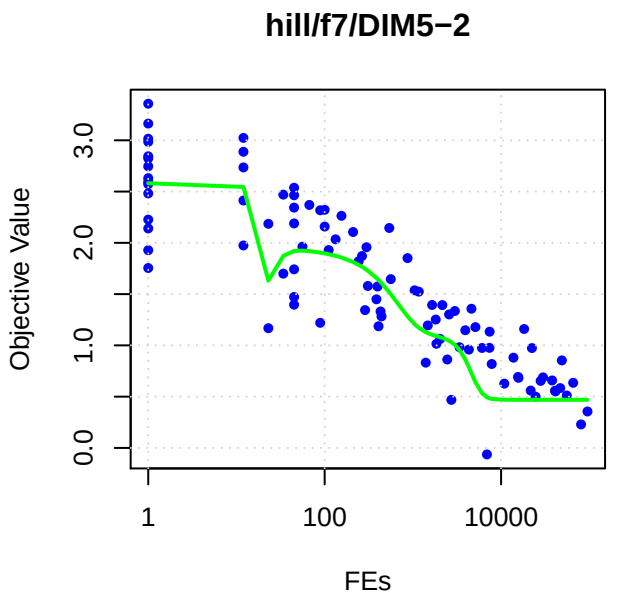
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Objective Value
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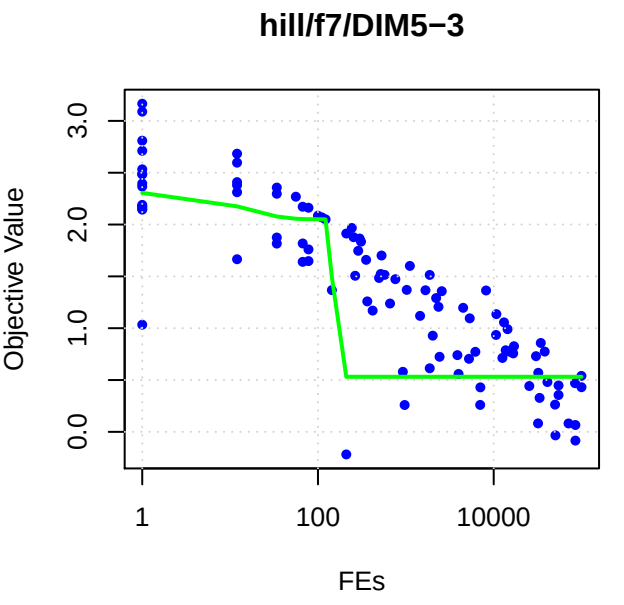
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Objective Value
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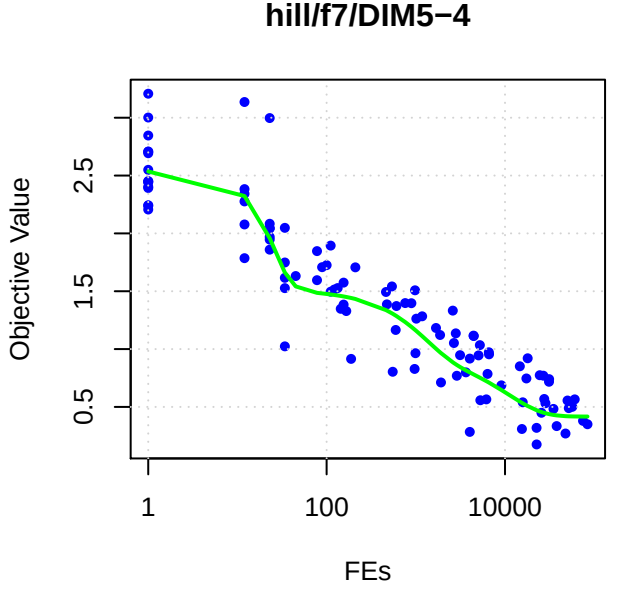
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Objective Value
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2.5
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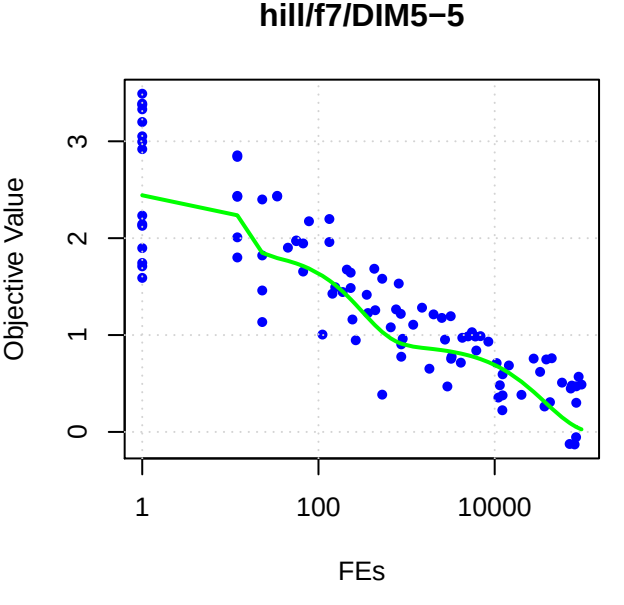
hill/f7/DIM5−5
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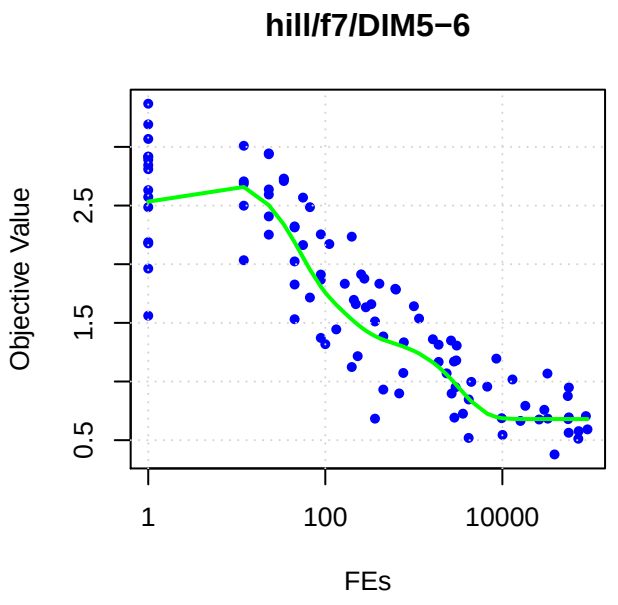
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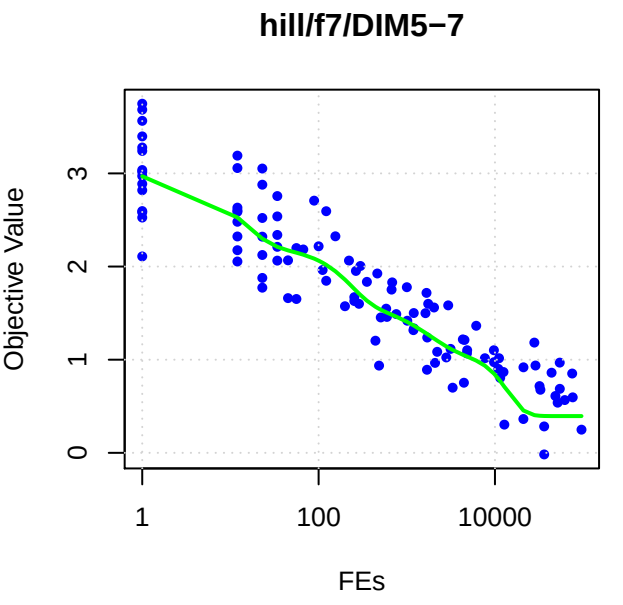
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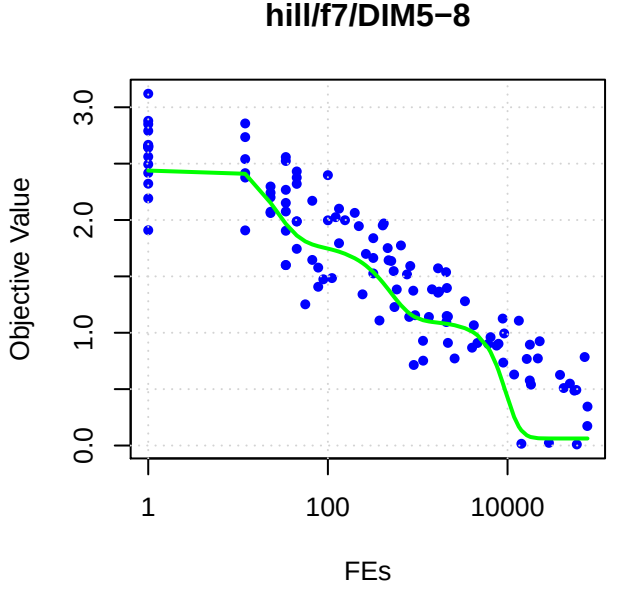
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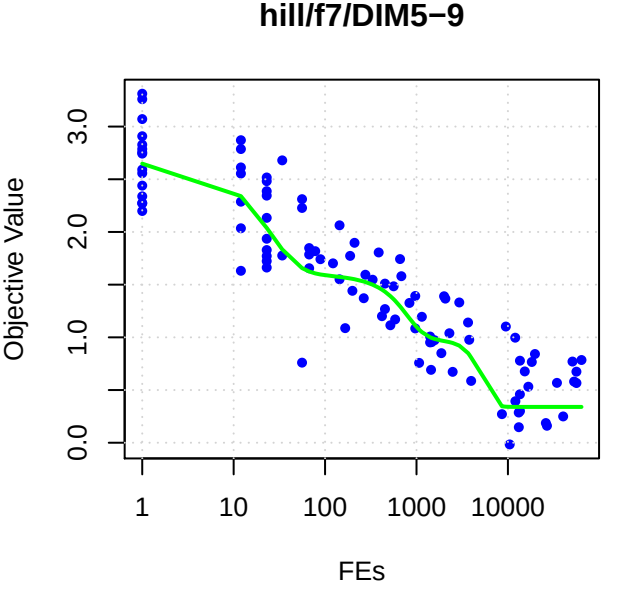
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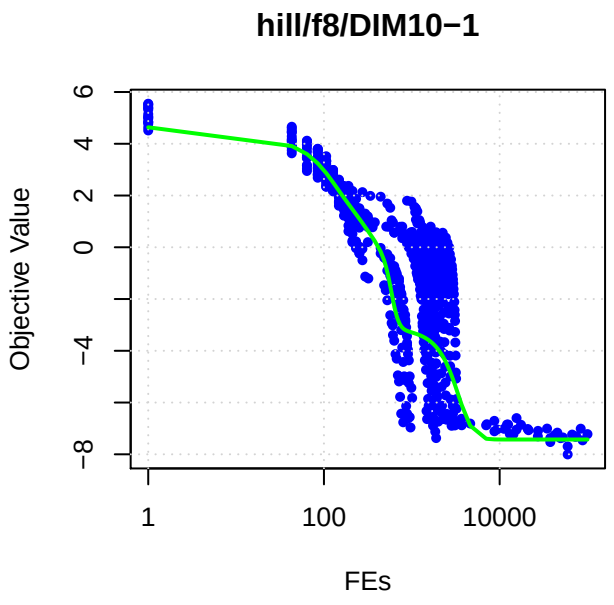
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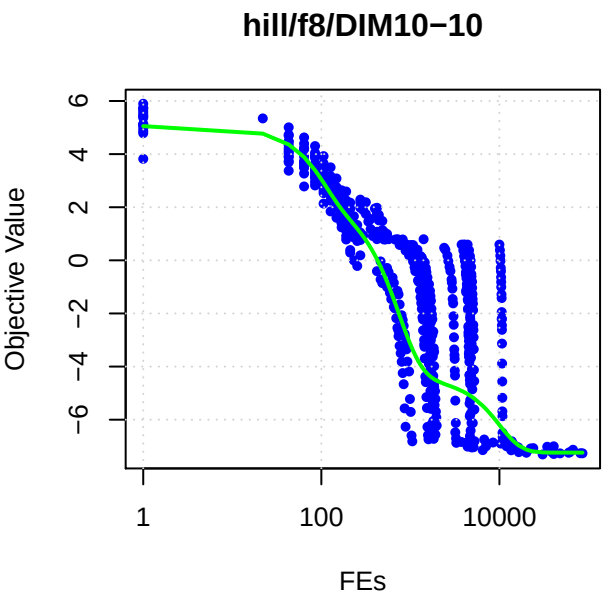
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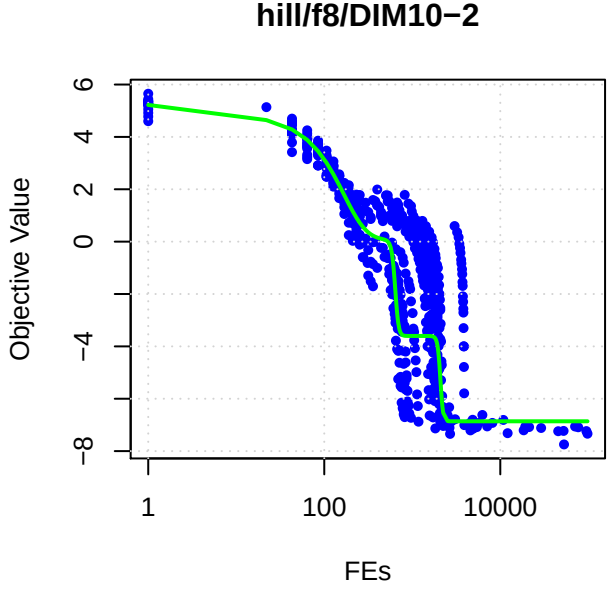
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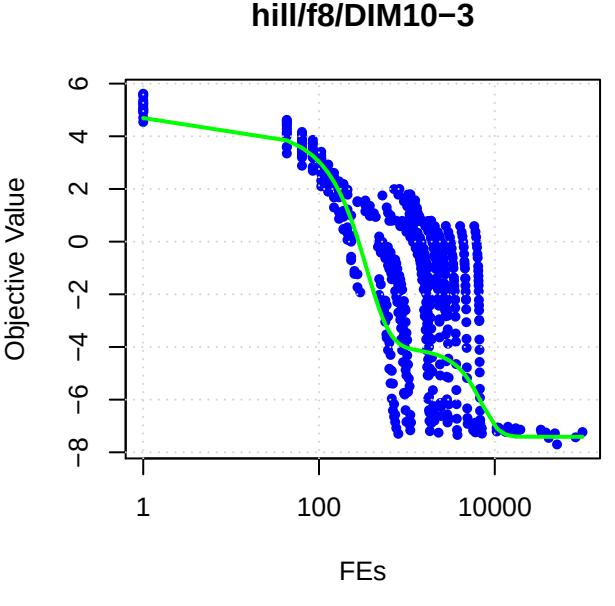
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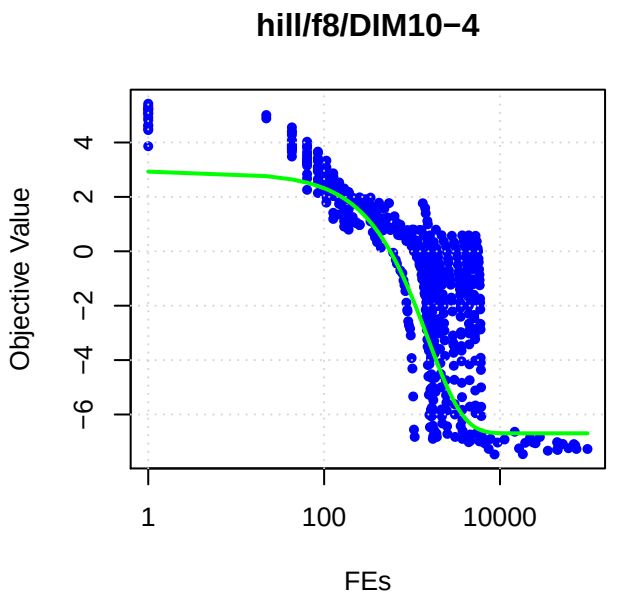
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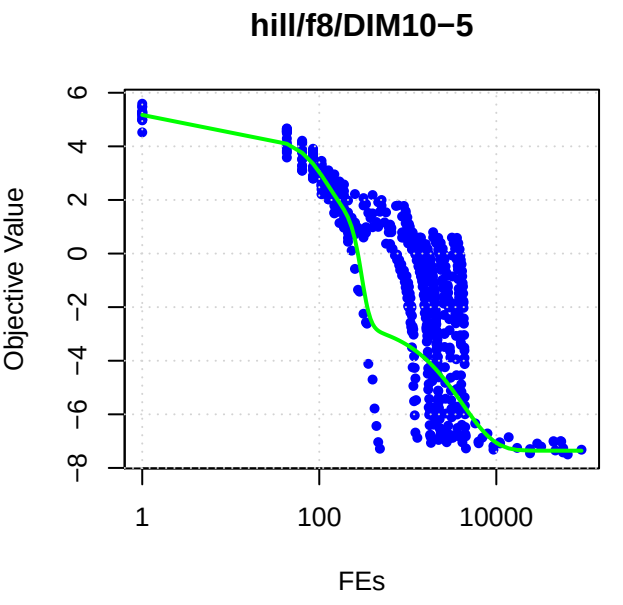
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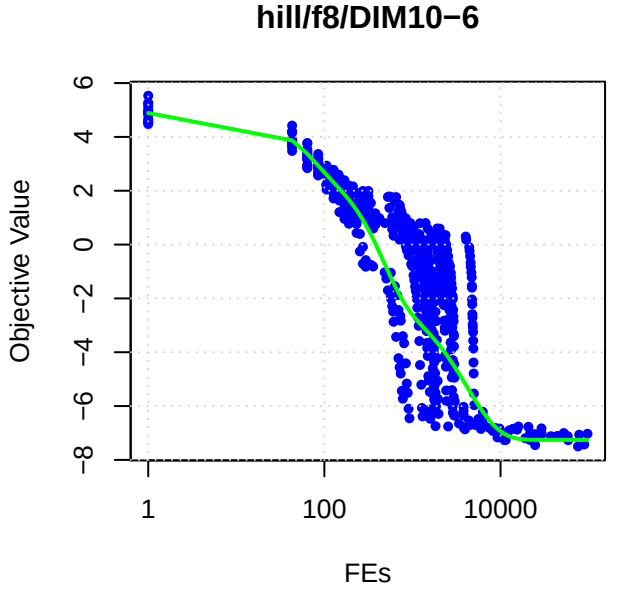
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Objective Value
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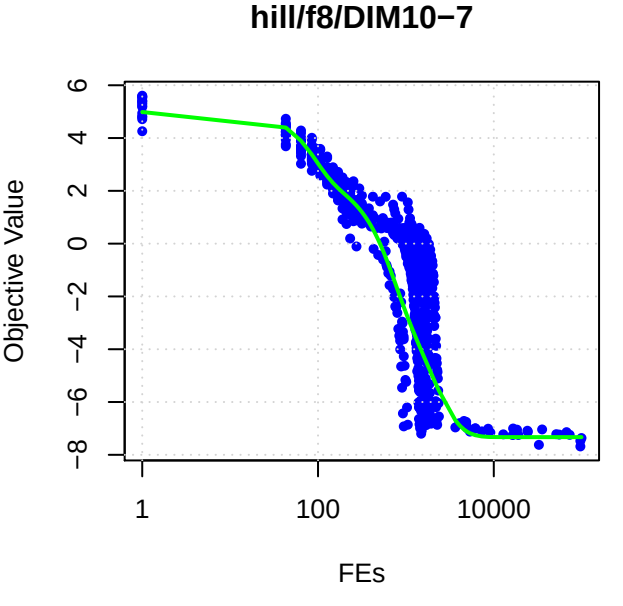
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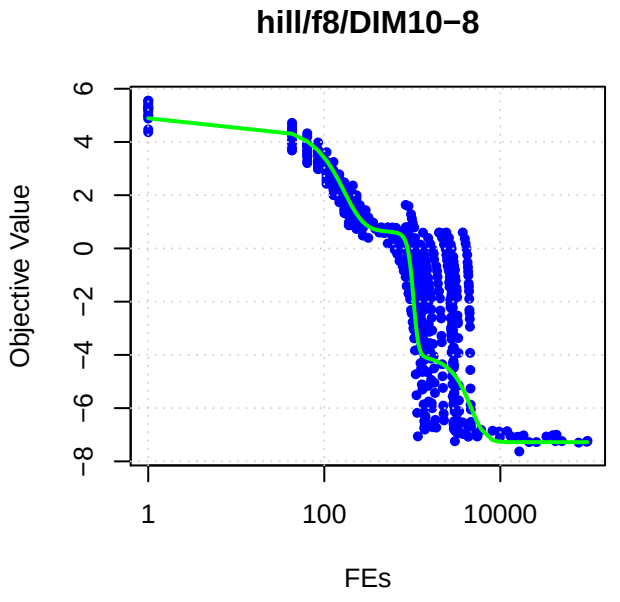
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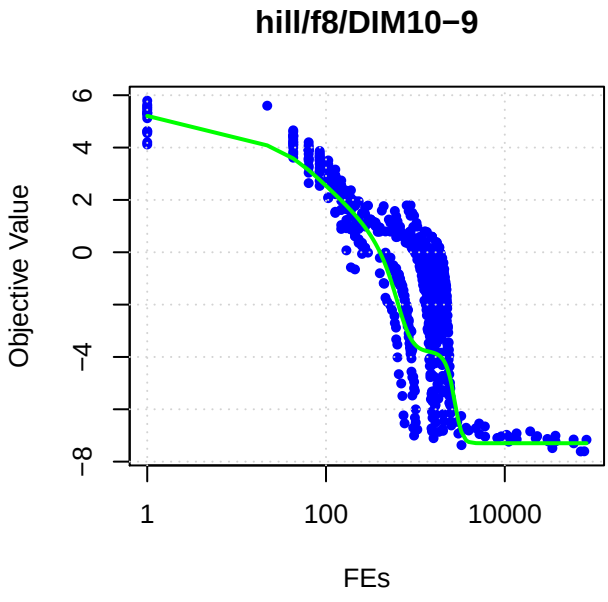
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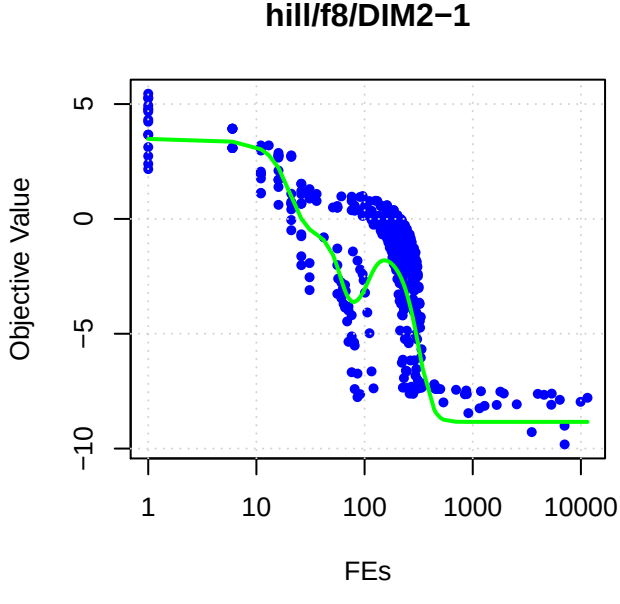
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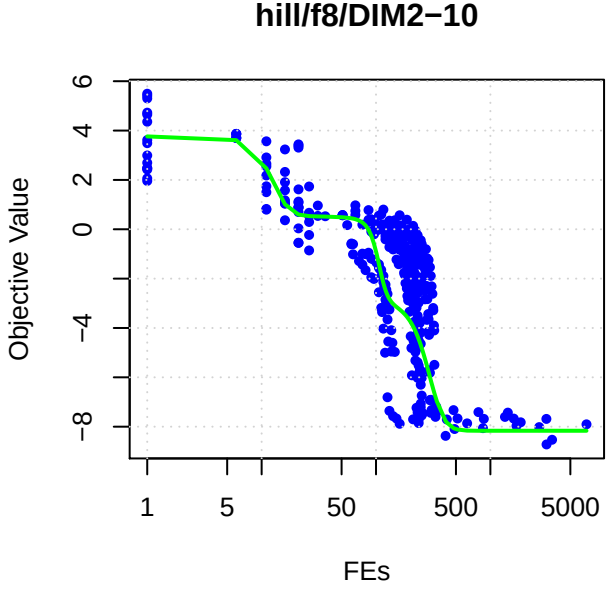
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Objective Value
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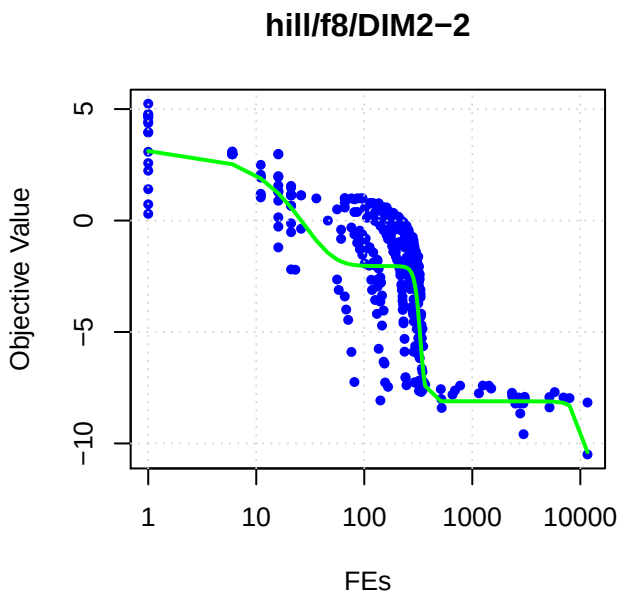
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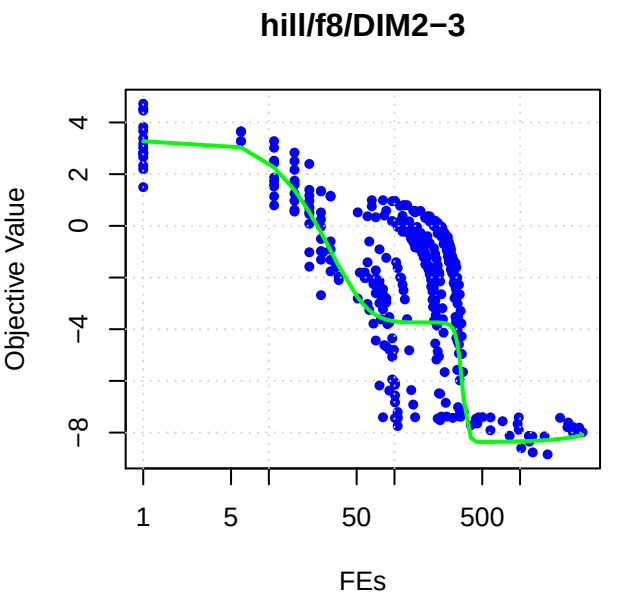
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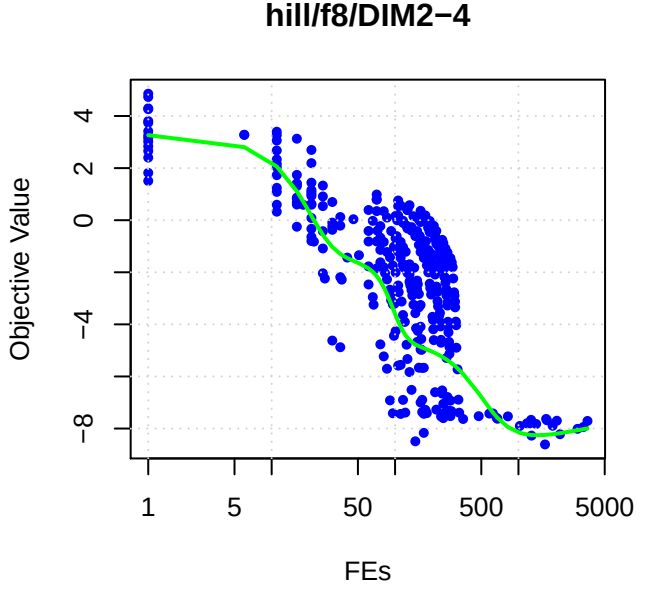
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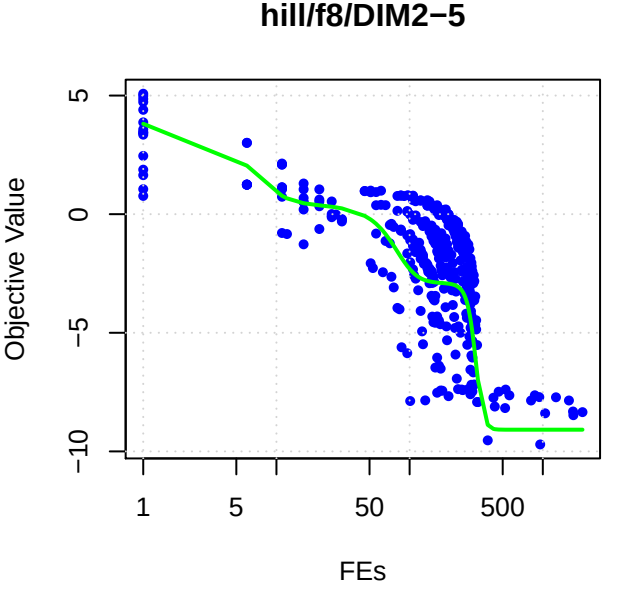
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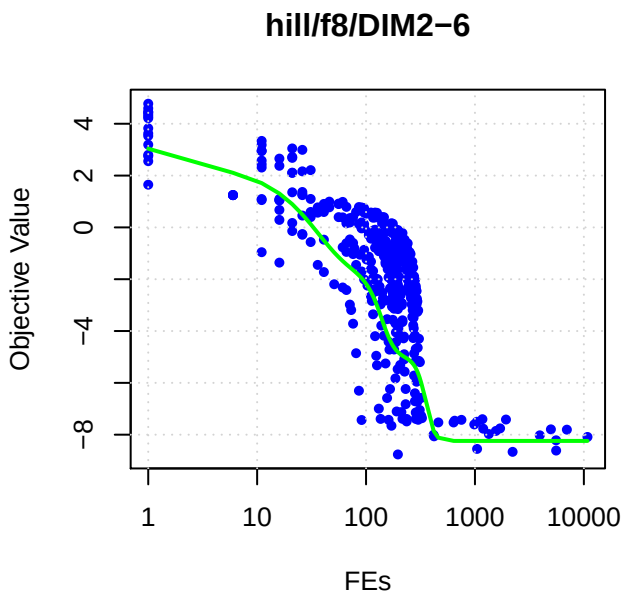
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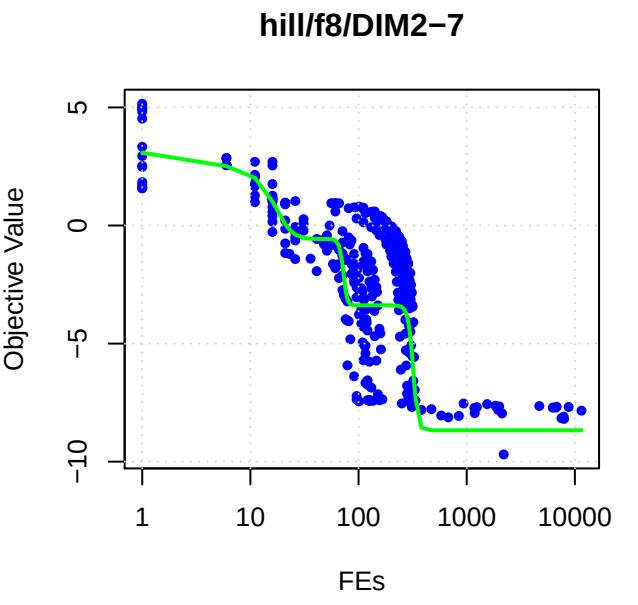
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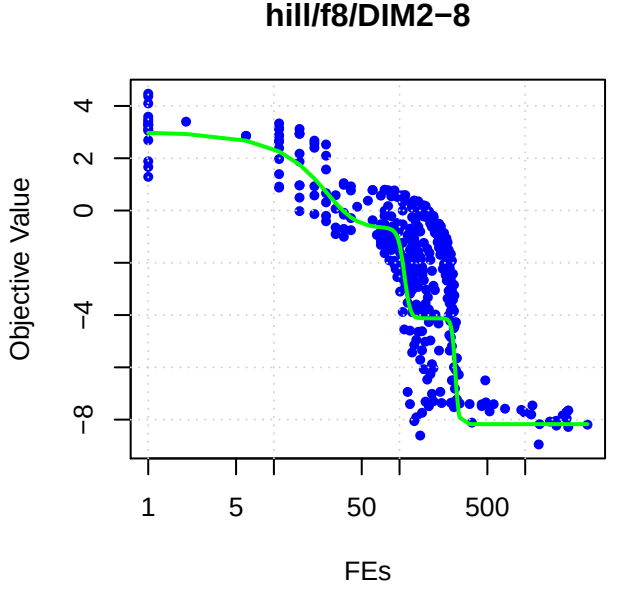
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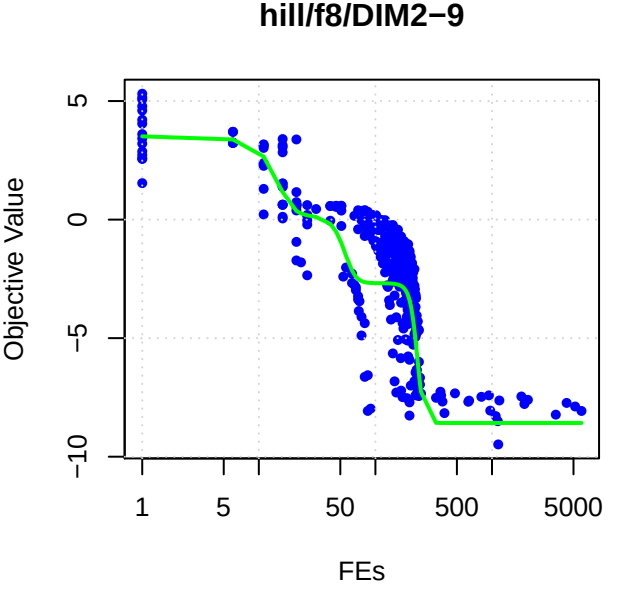
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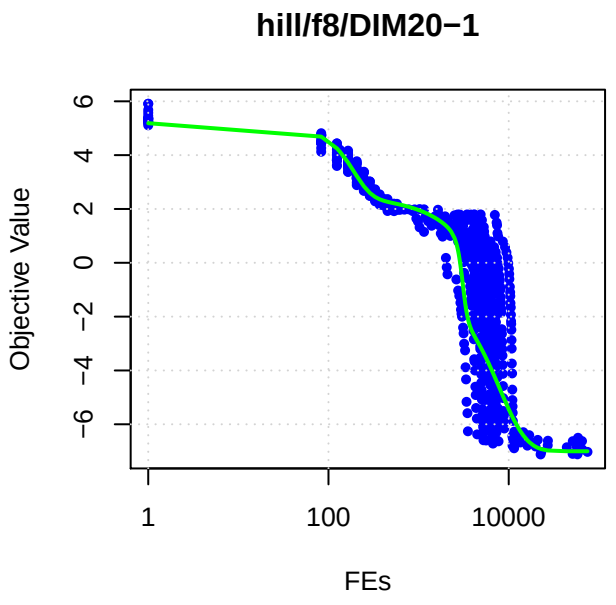
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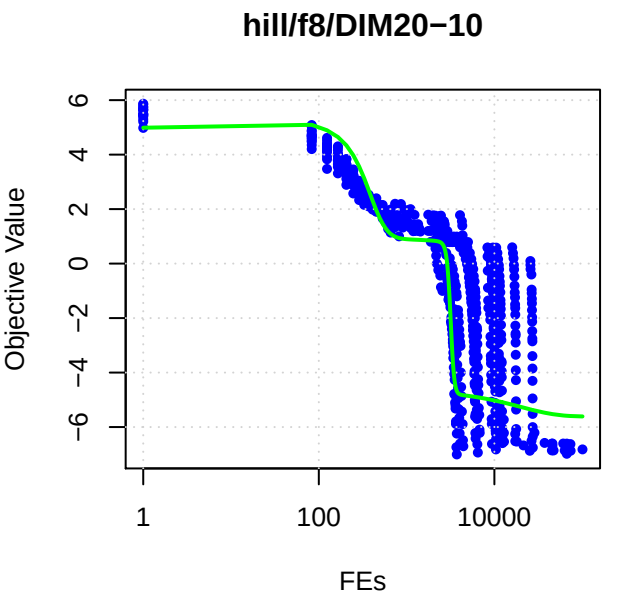
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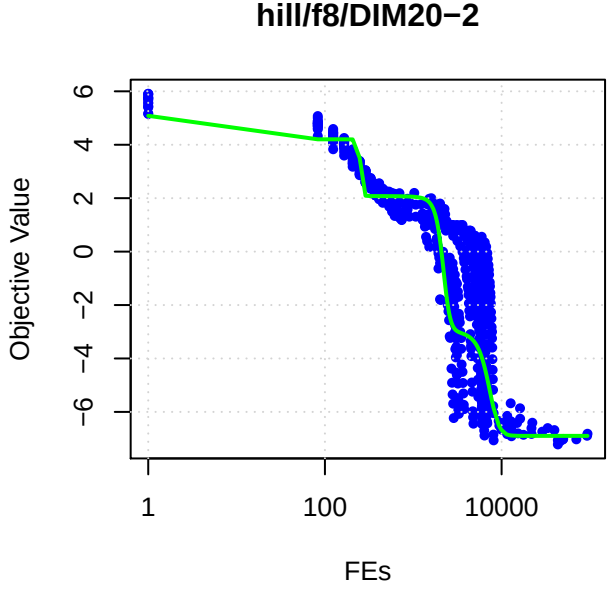
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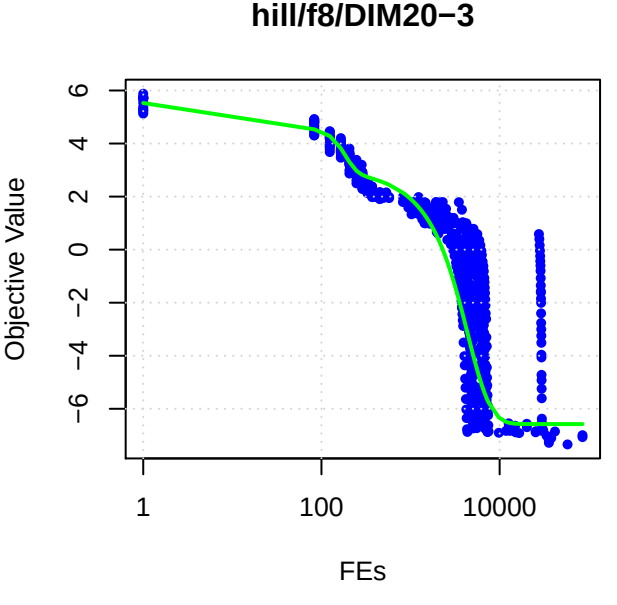
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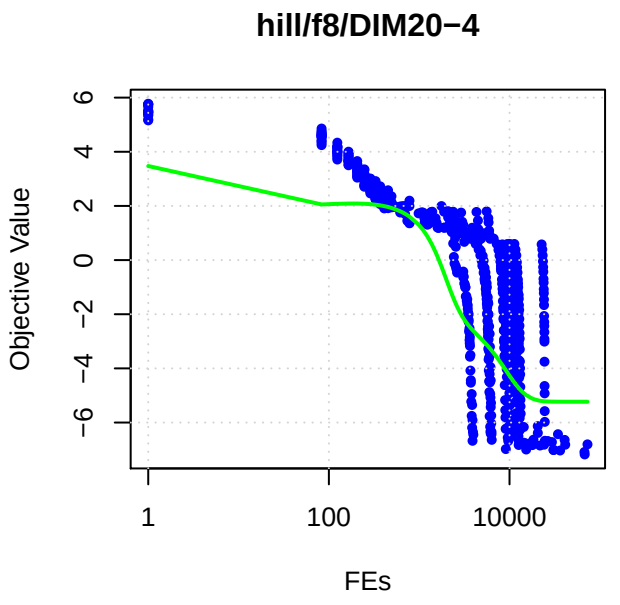
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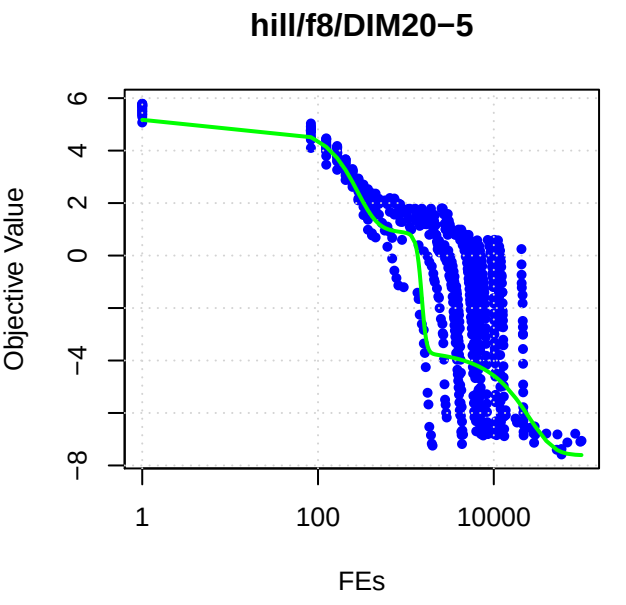
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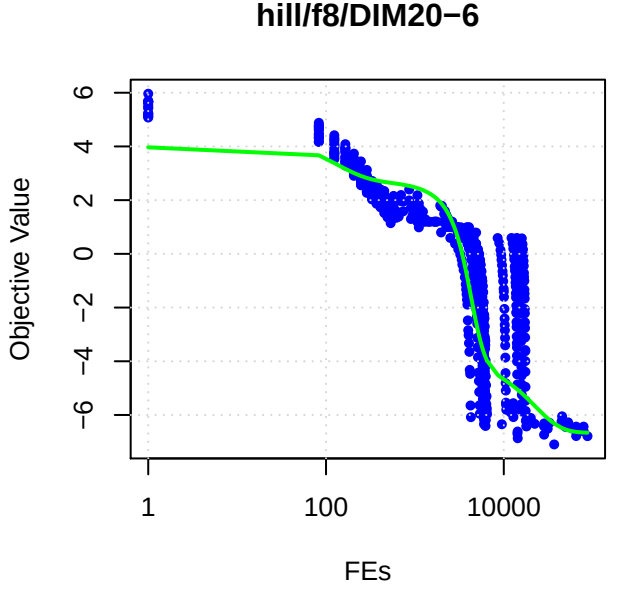
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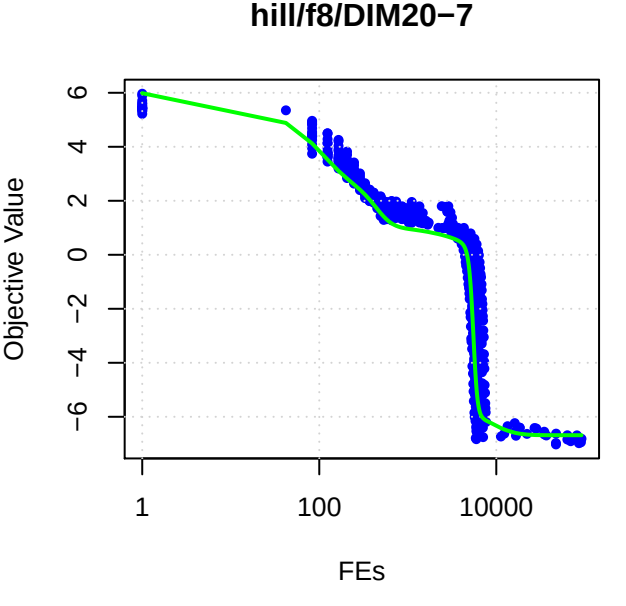
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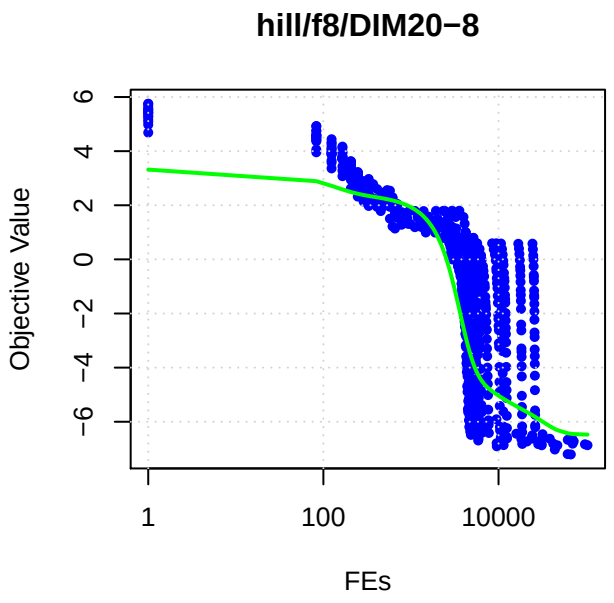
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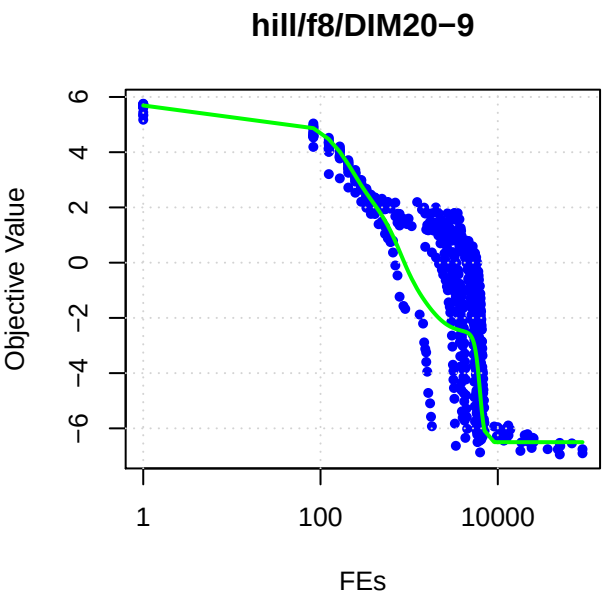
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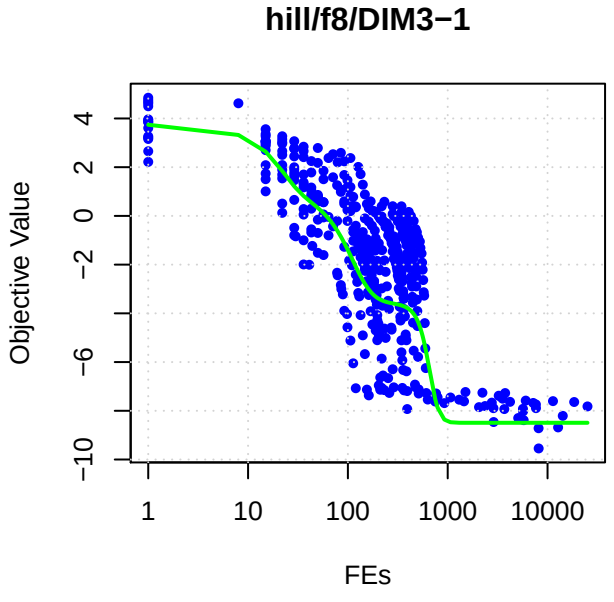
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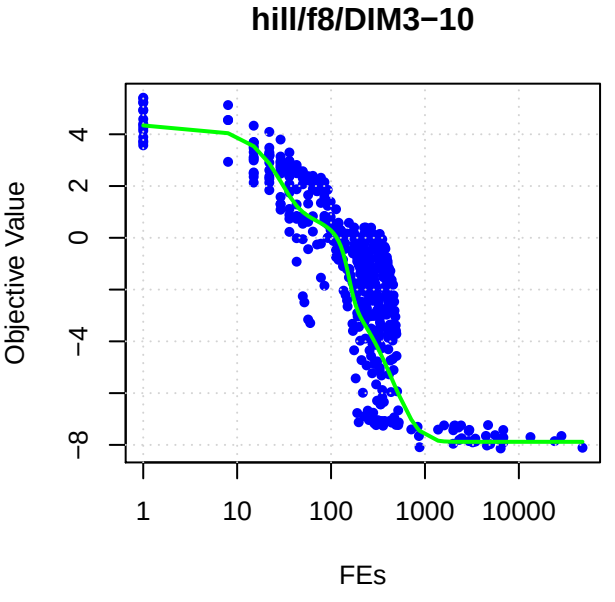
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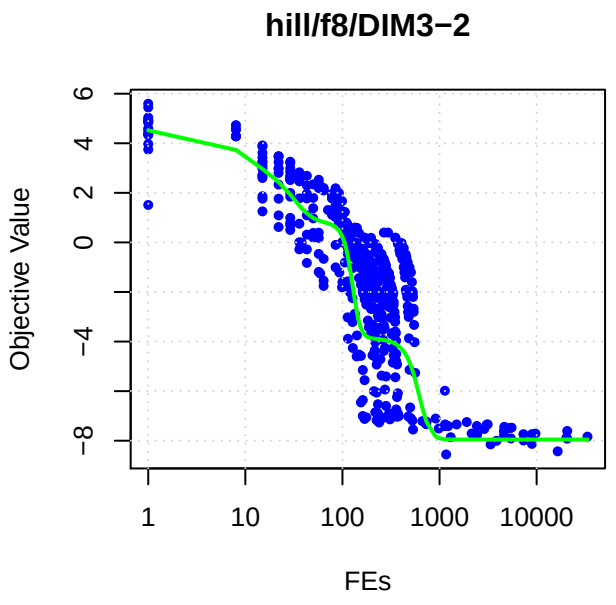
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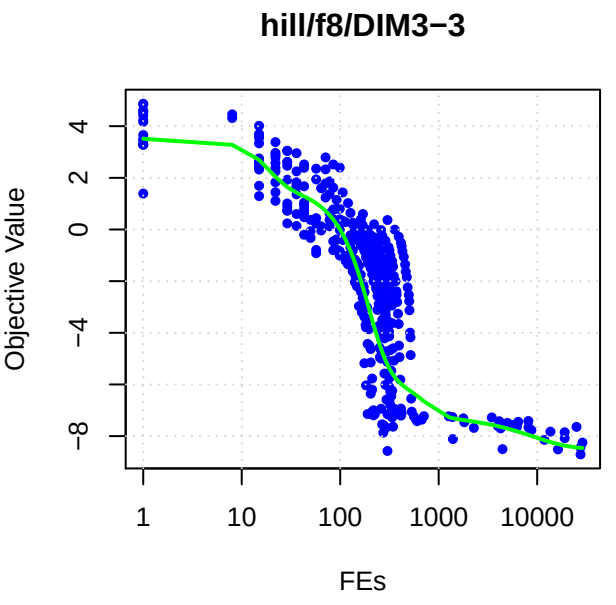
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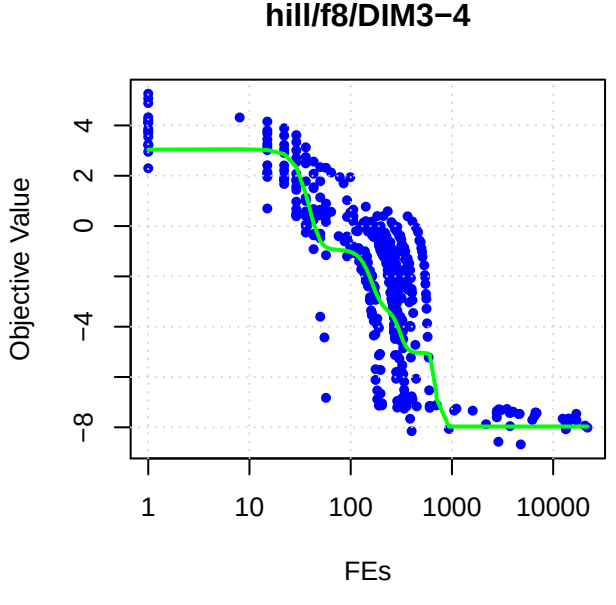
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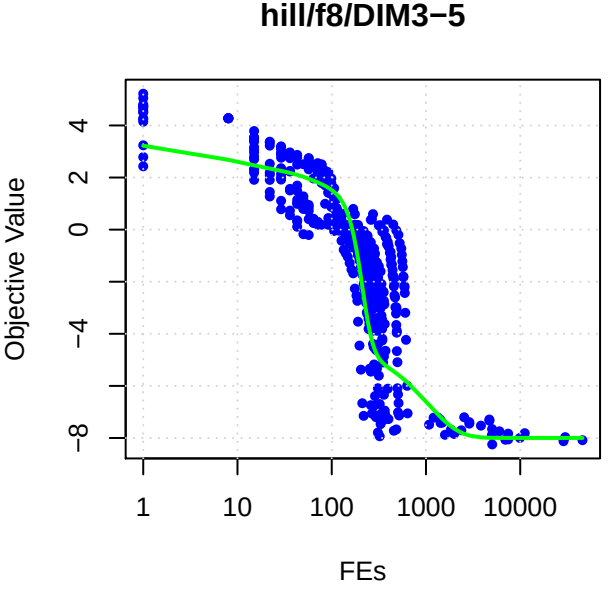
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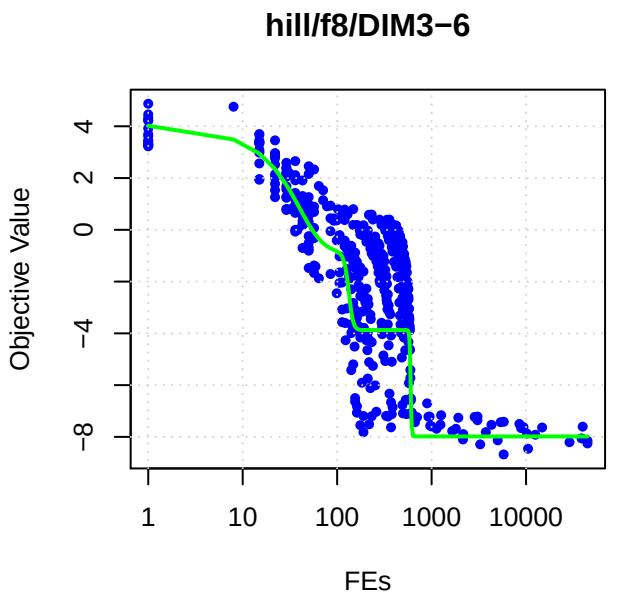
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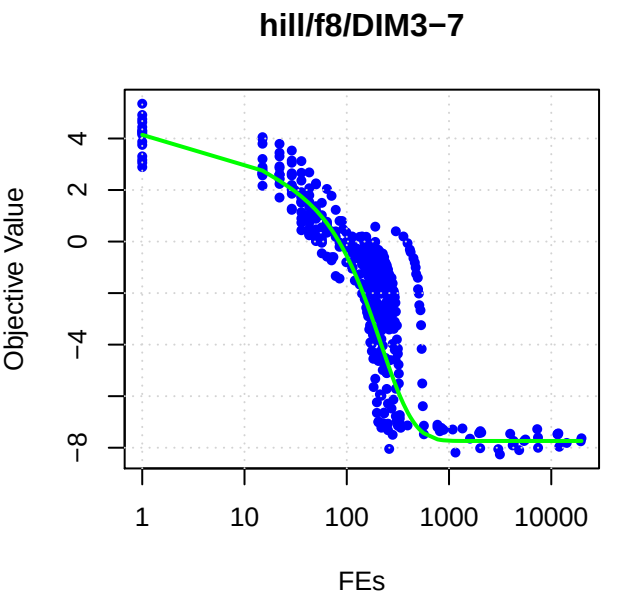
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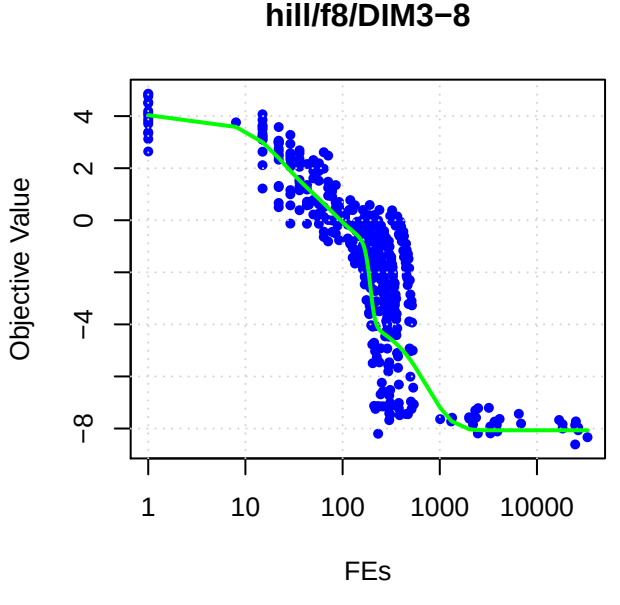
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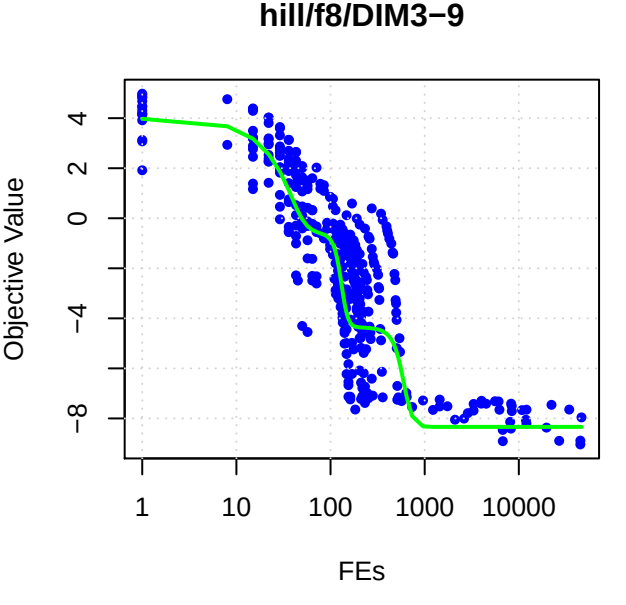
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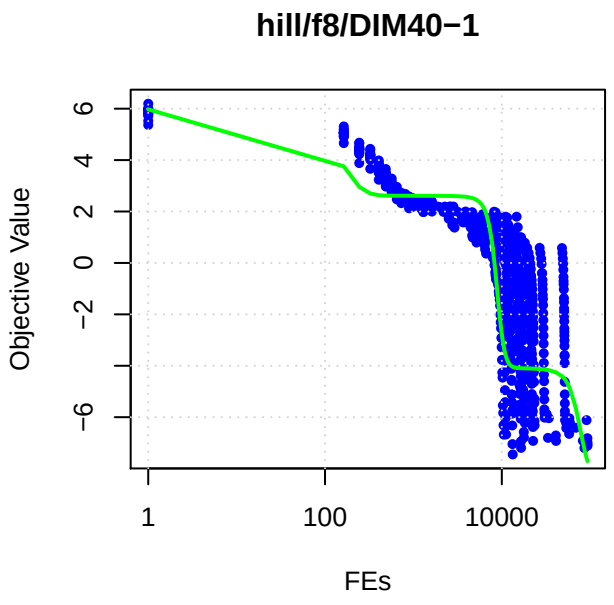
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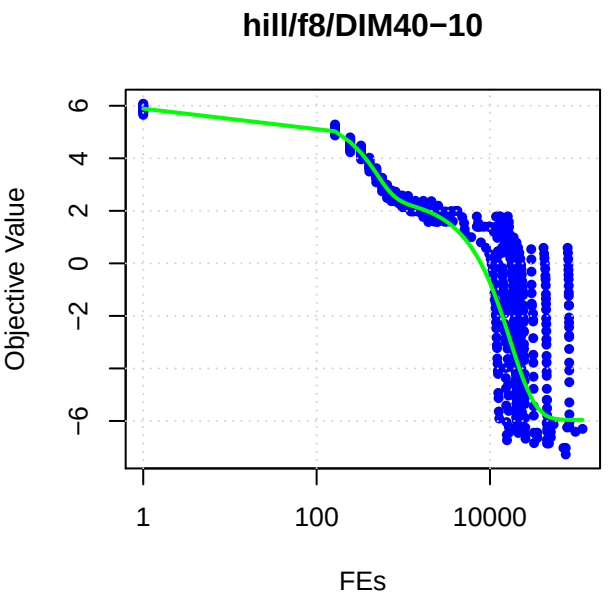
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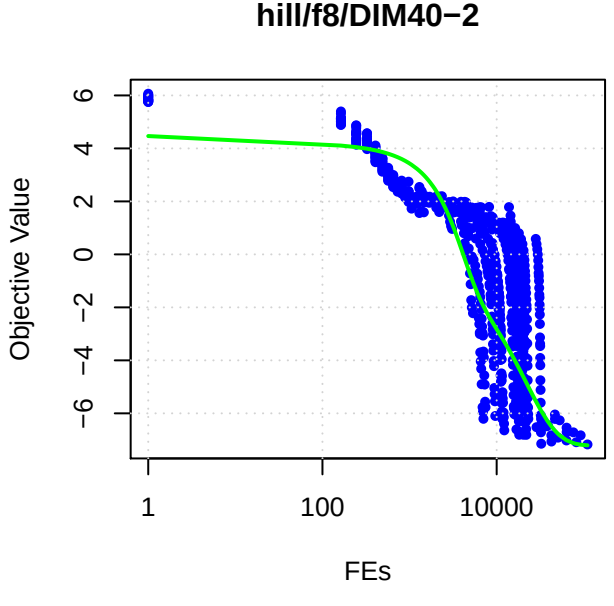
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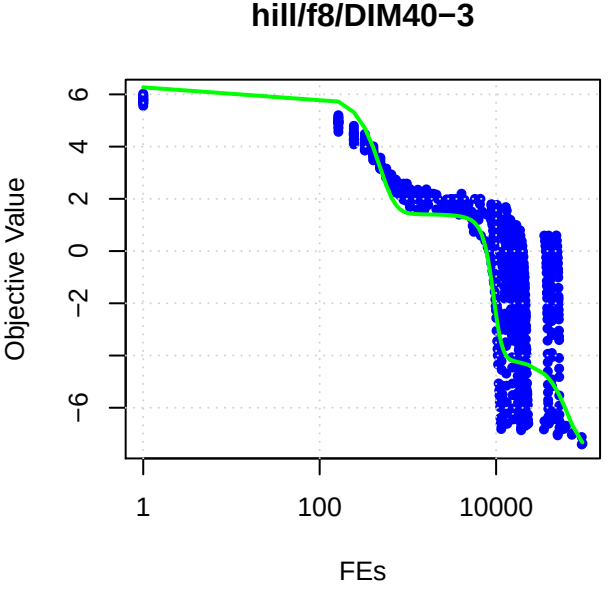
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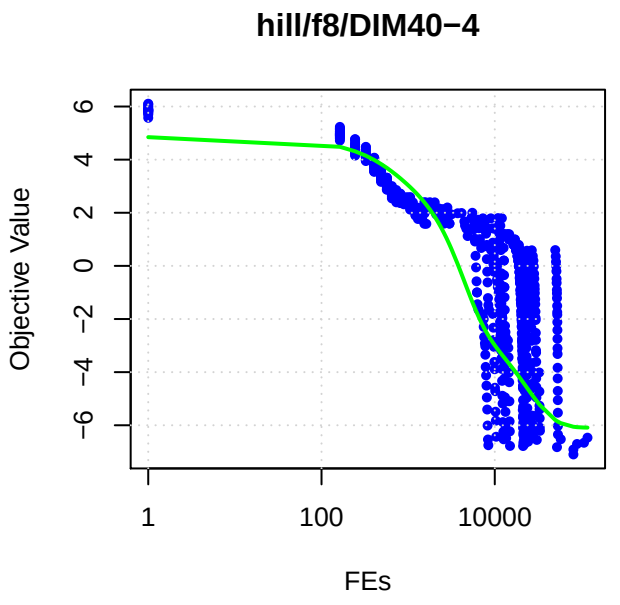
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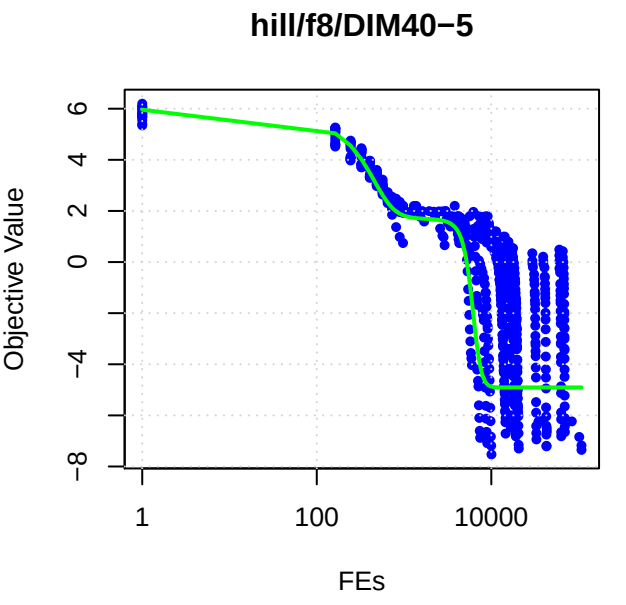
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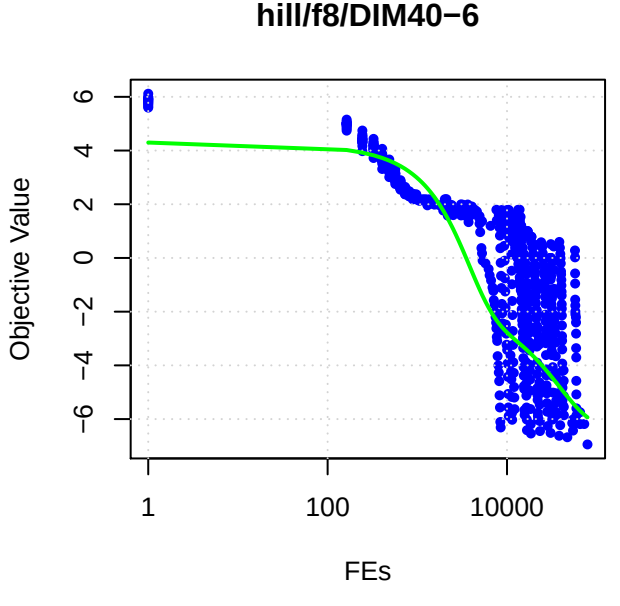
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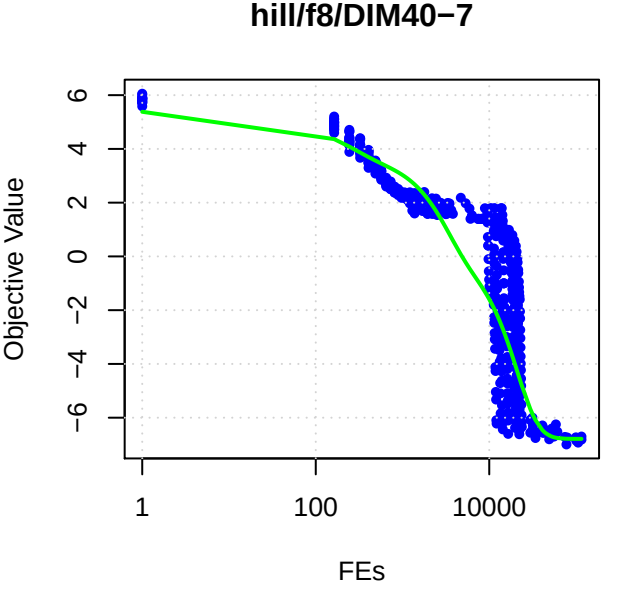
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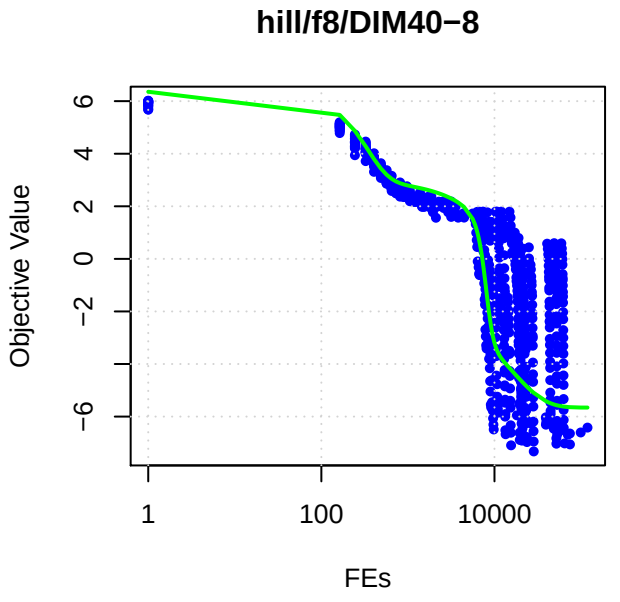
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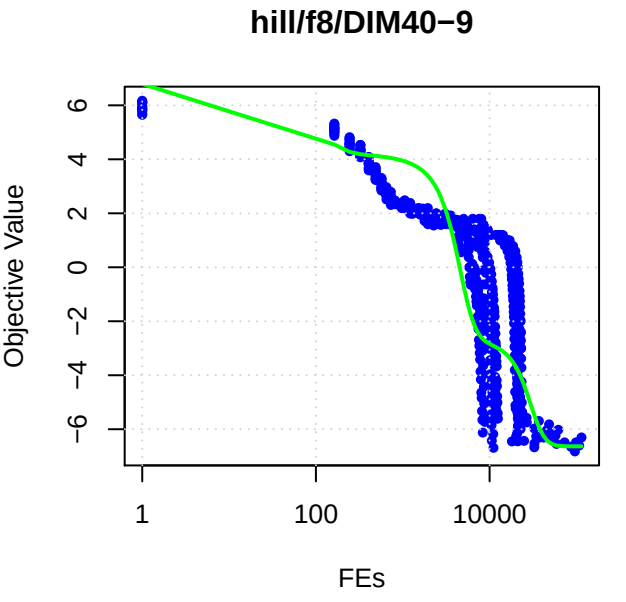
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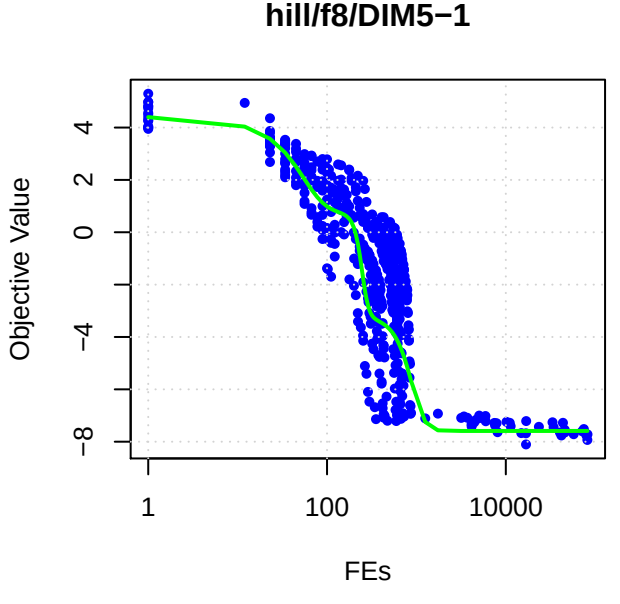
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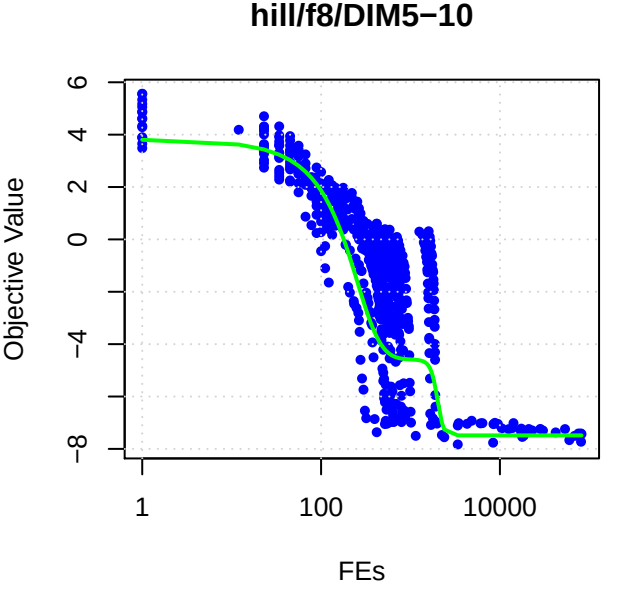
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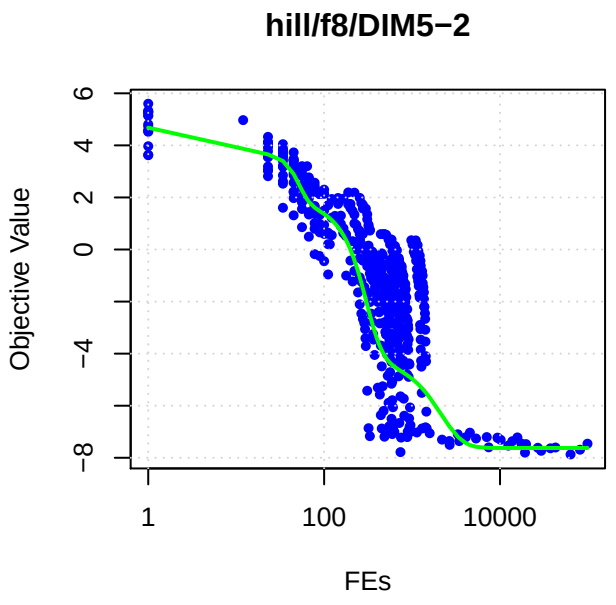
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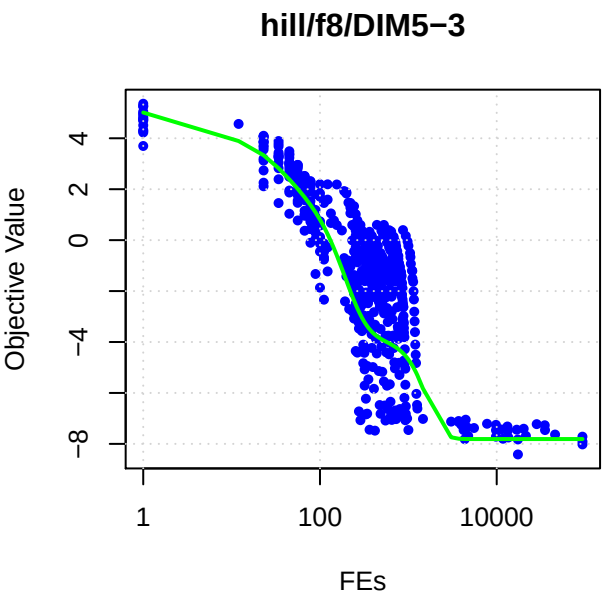
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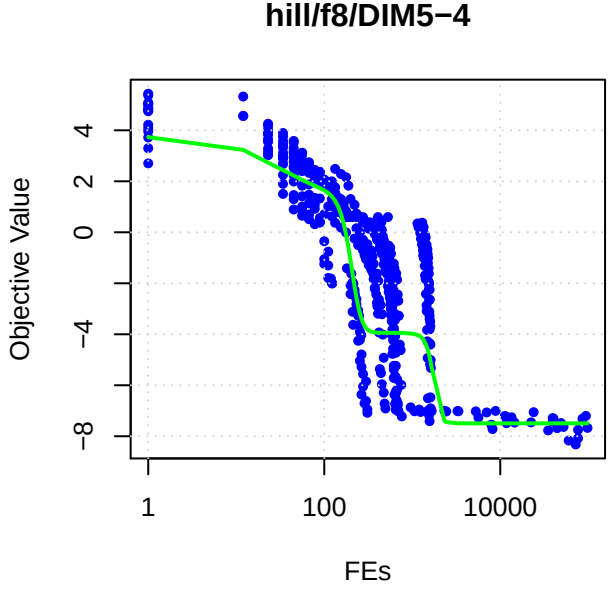
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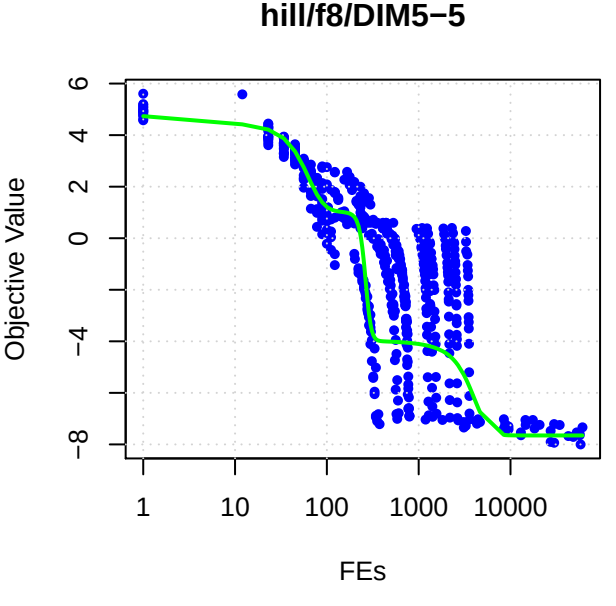
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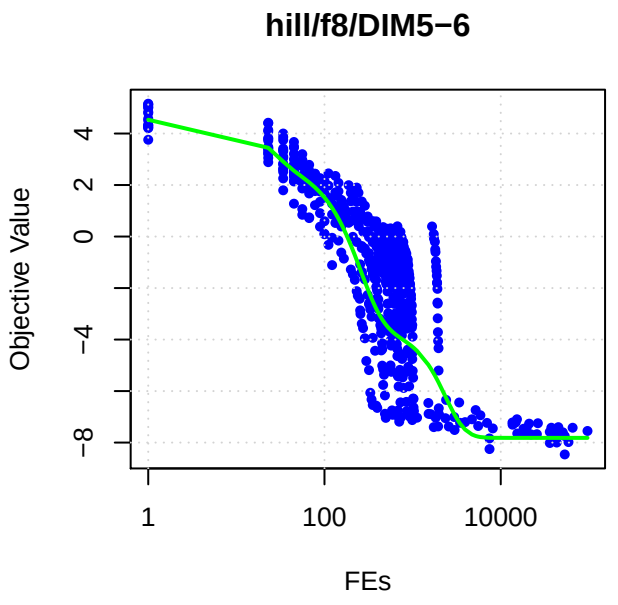
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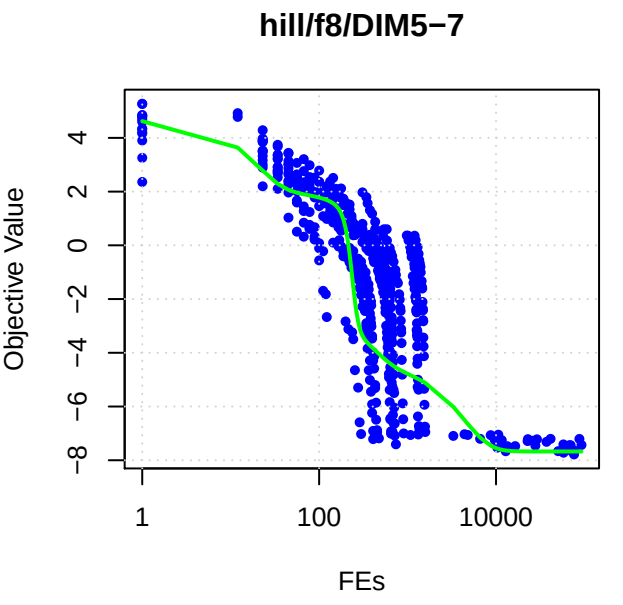
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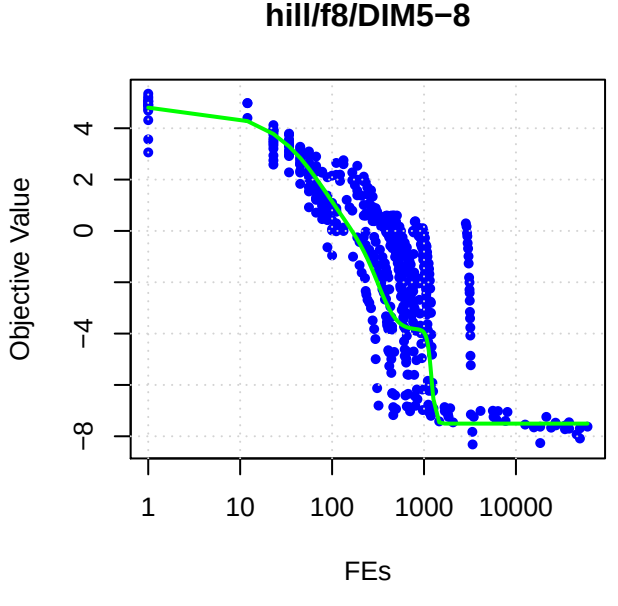
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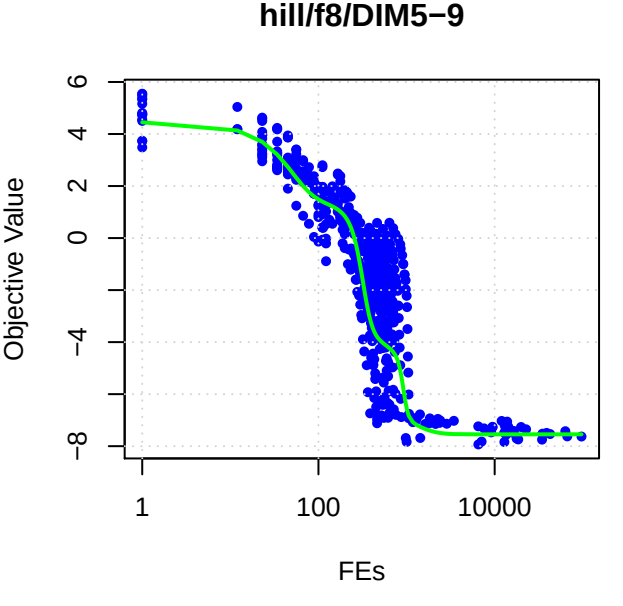
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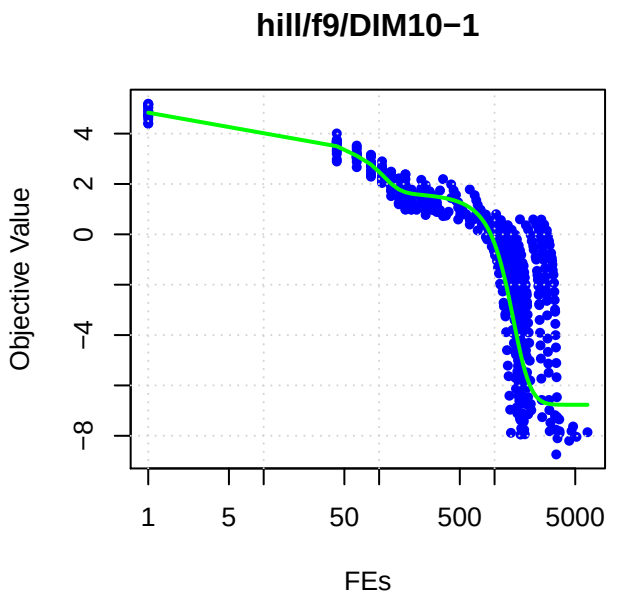
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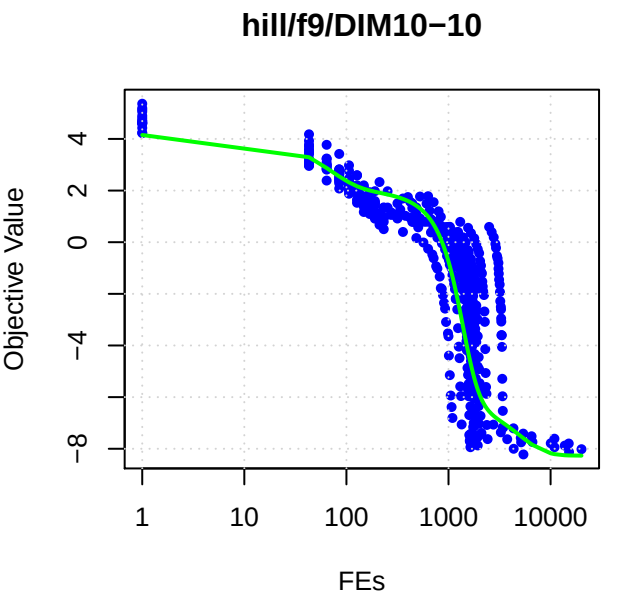
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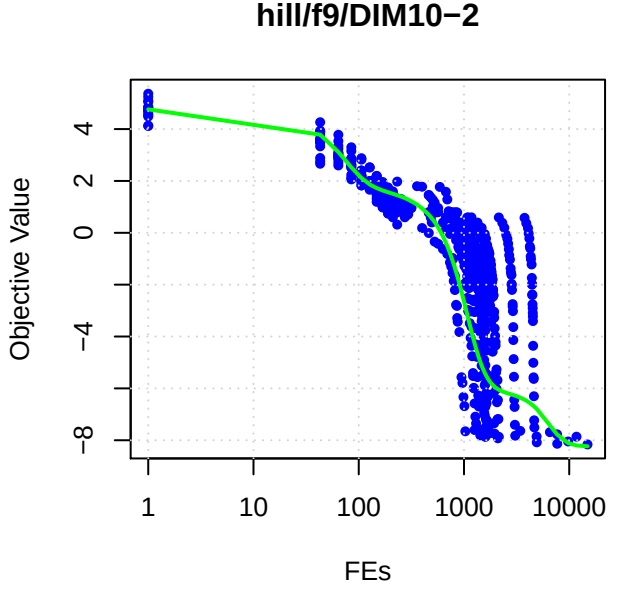
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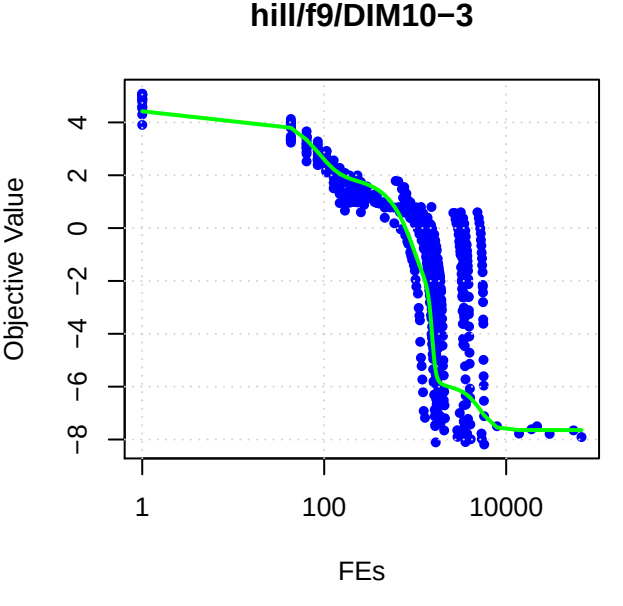
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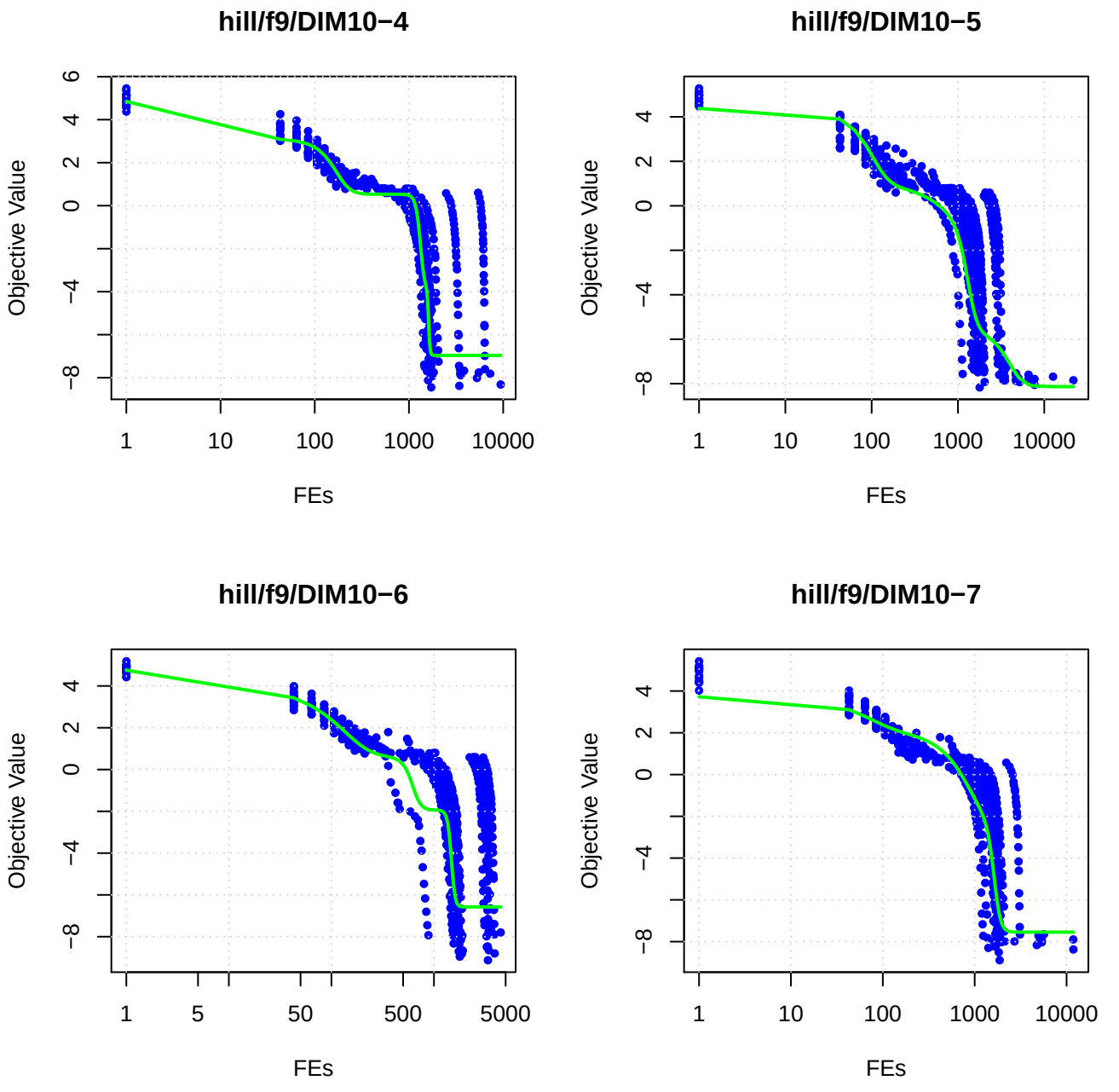
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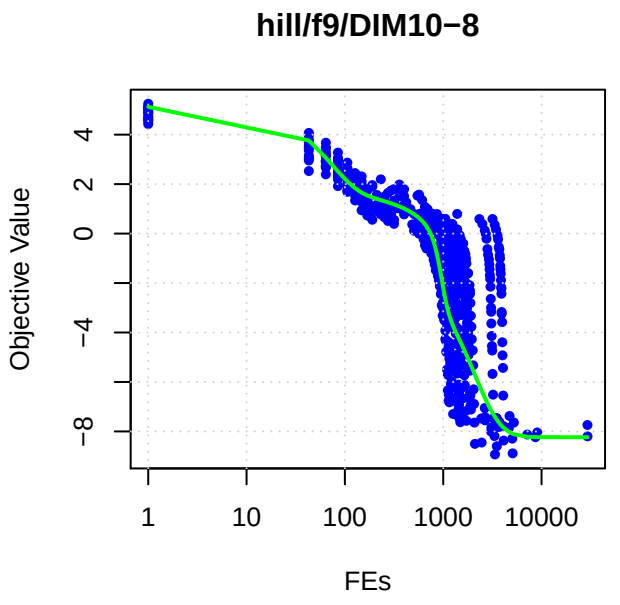
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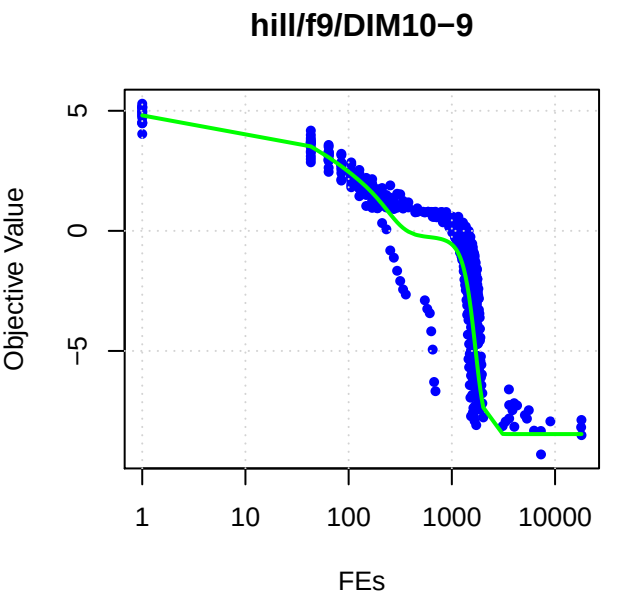
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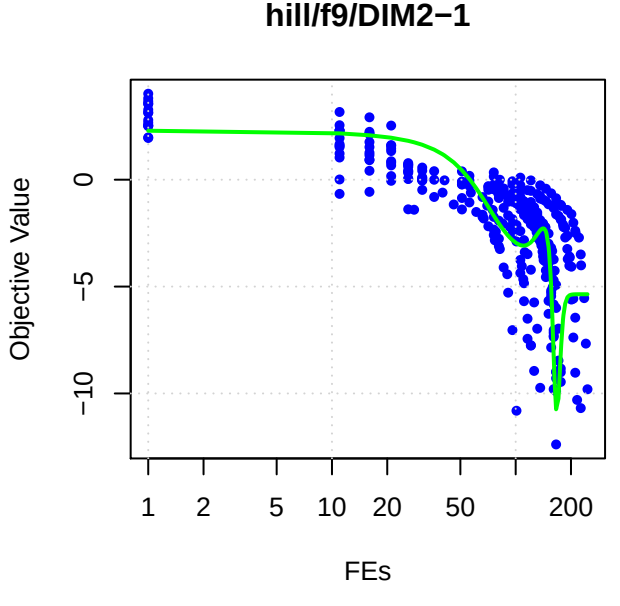
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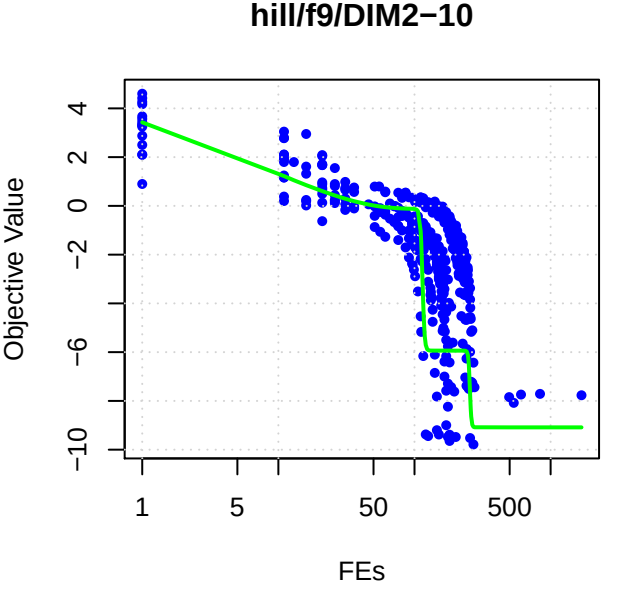
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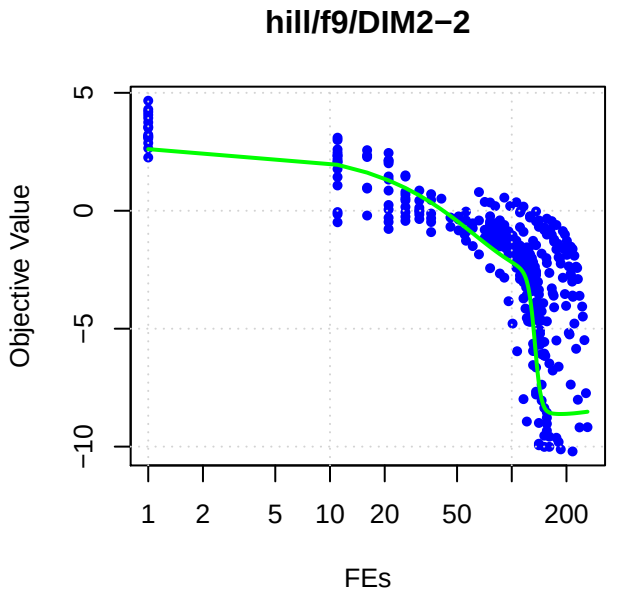
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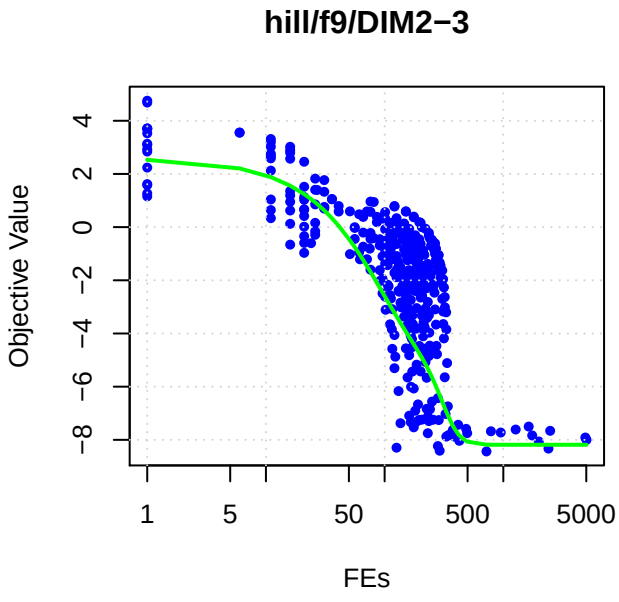
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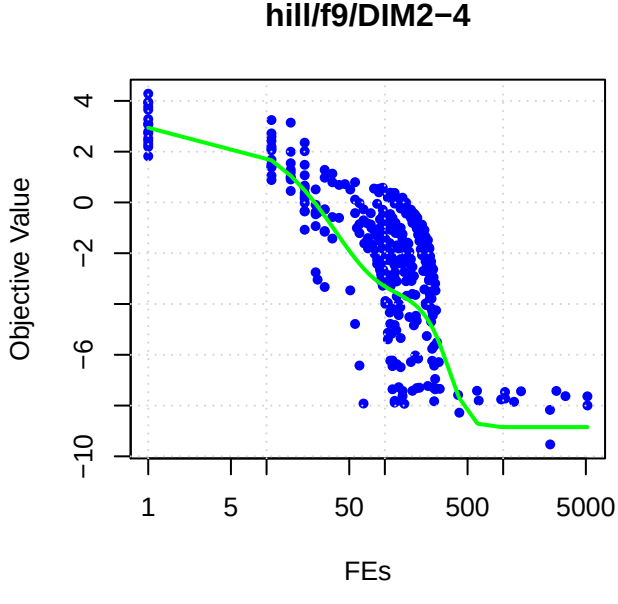
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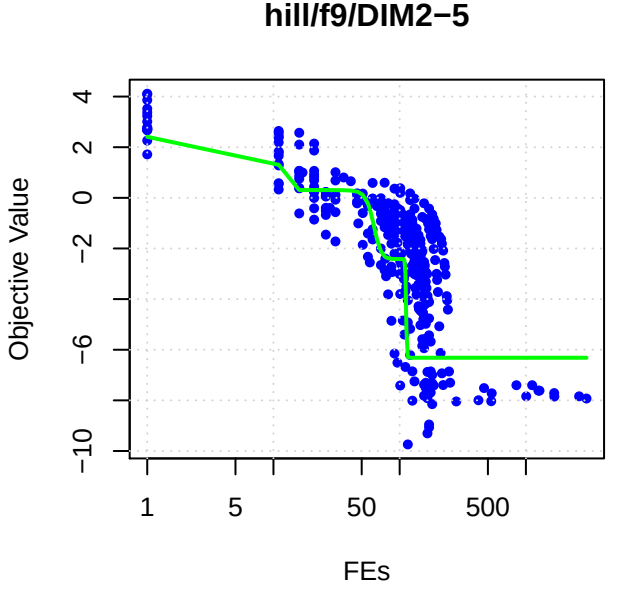
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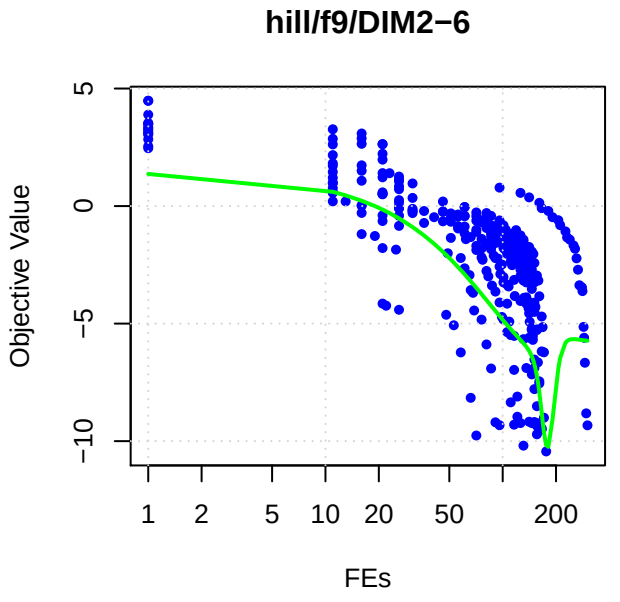
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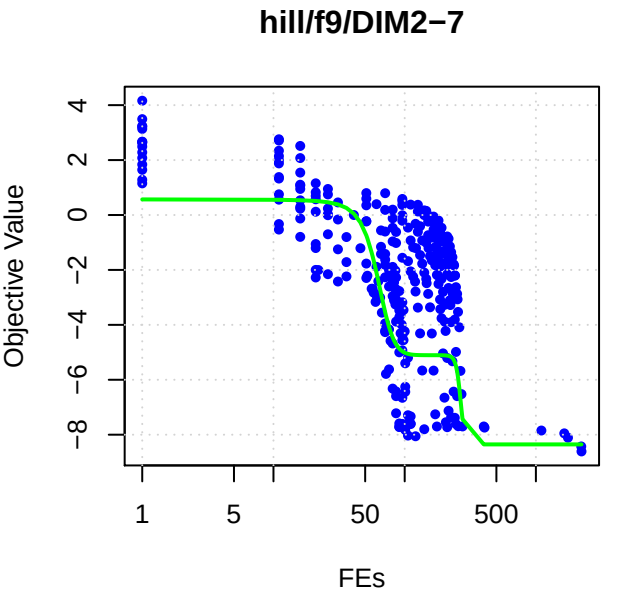
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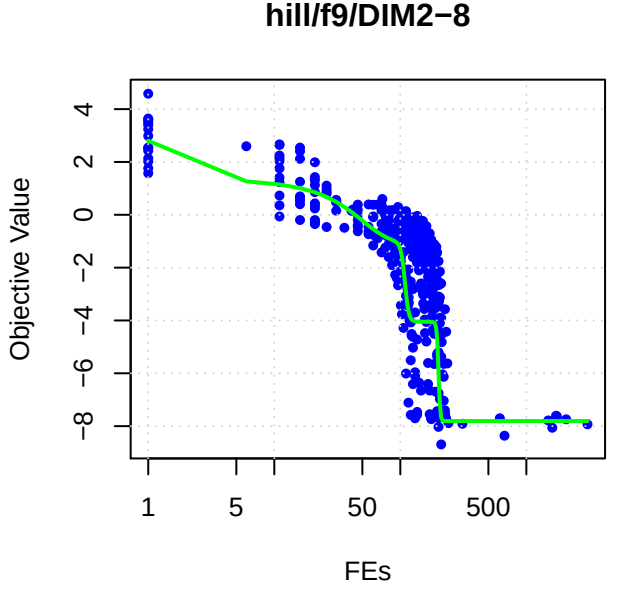
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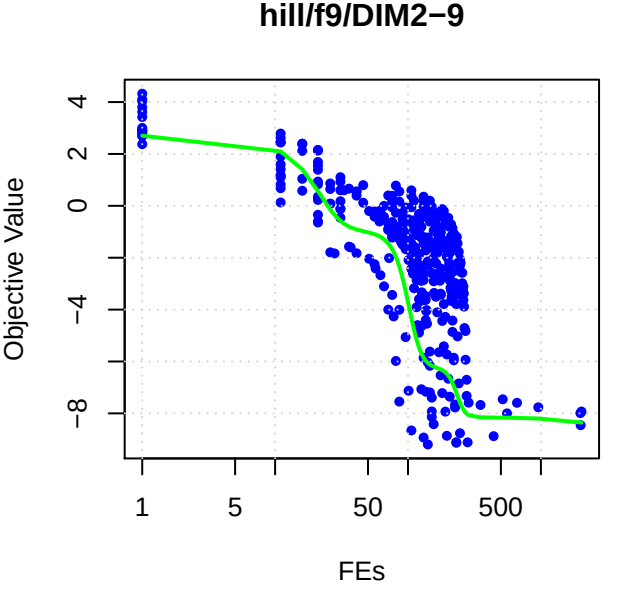
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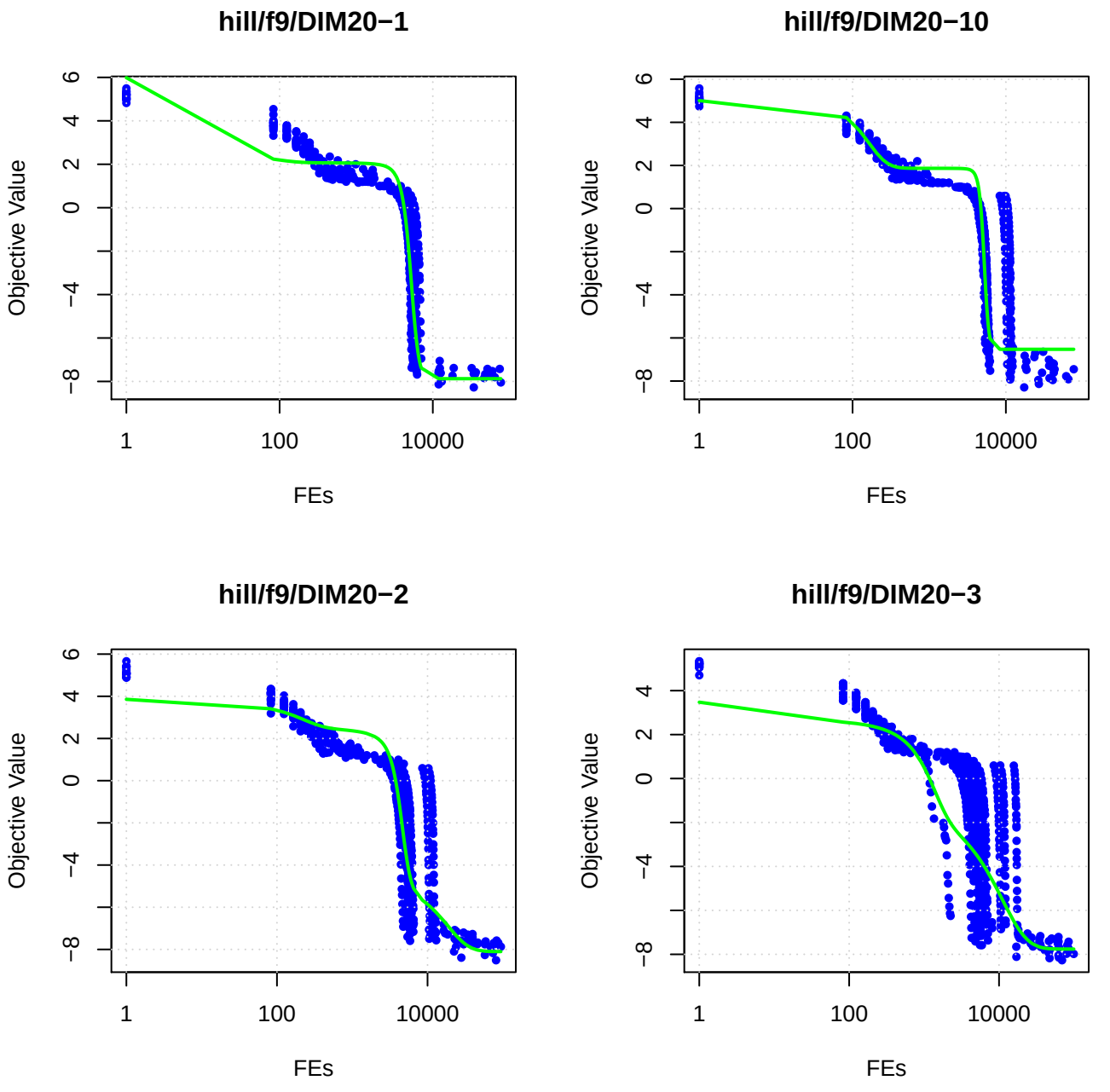
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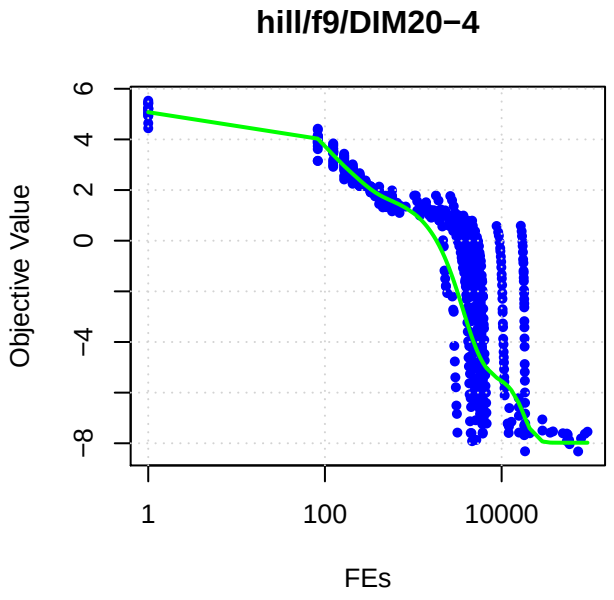
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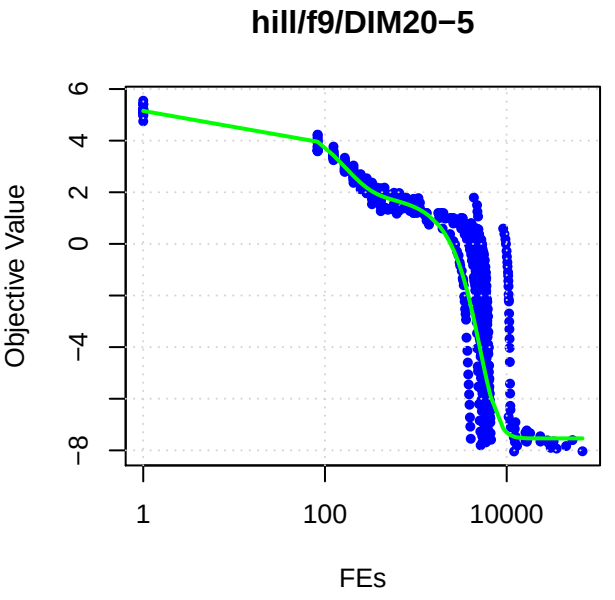
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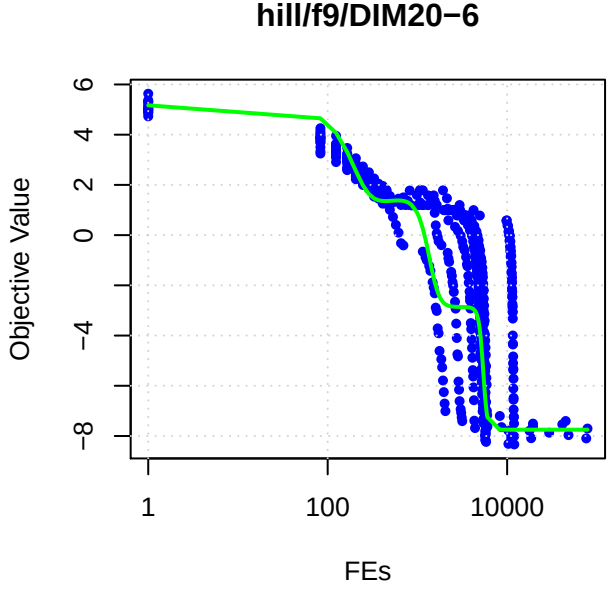
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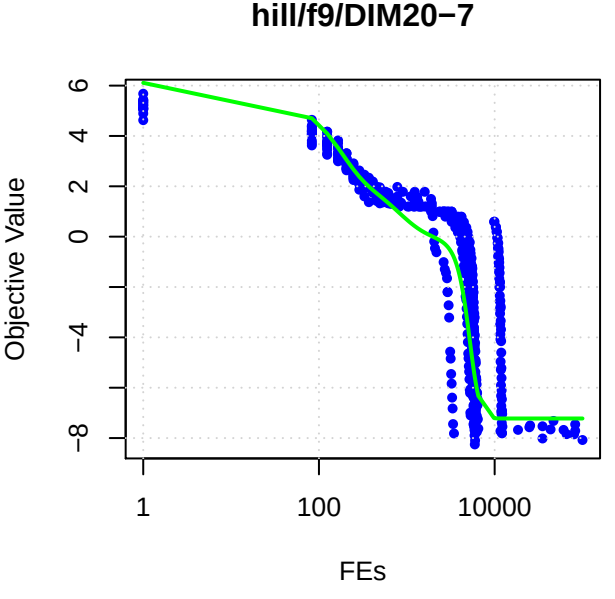
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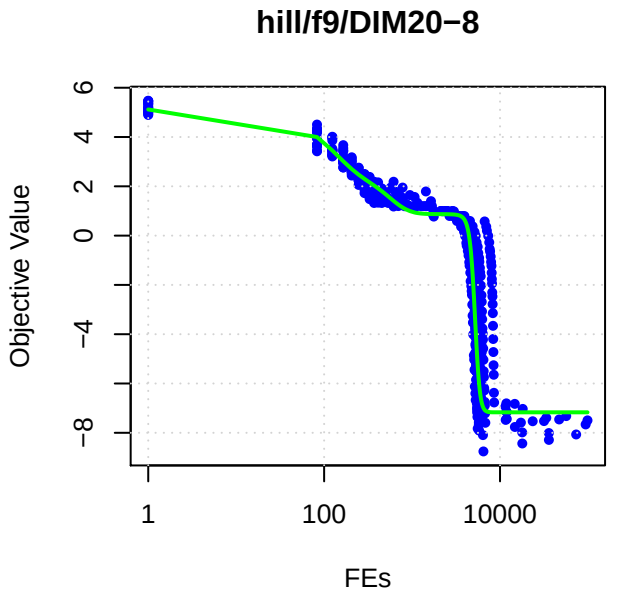
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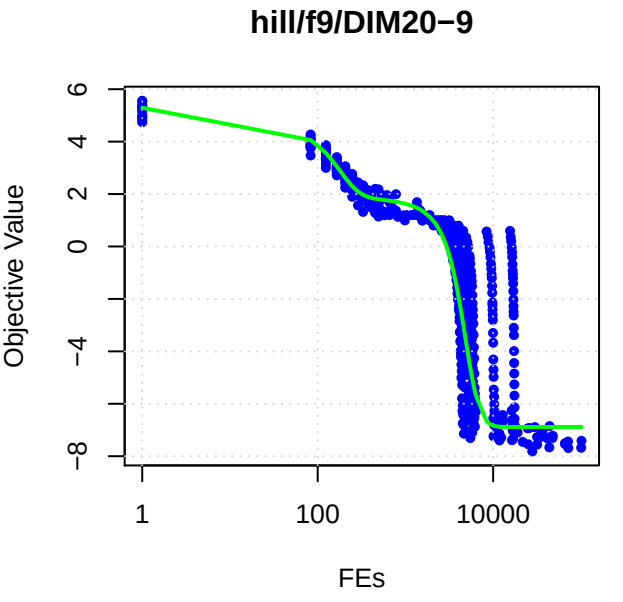
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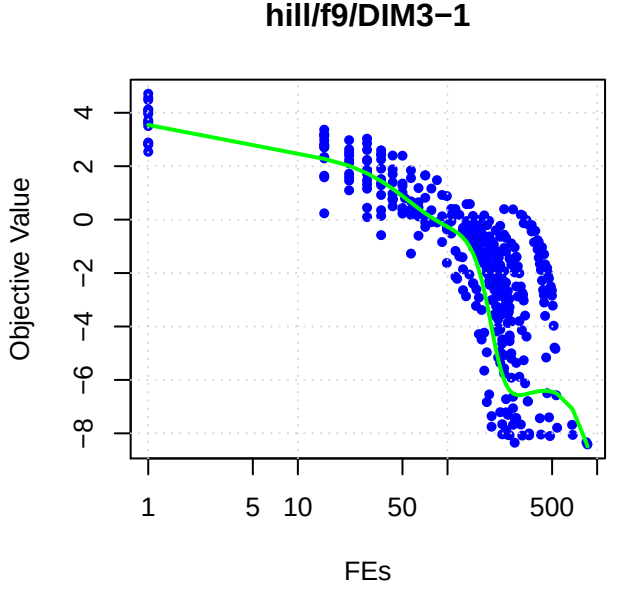
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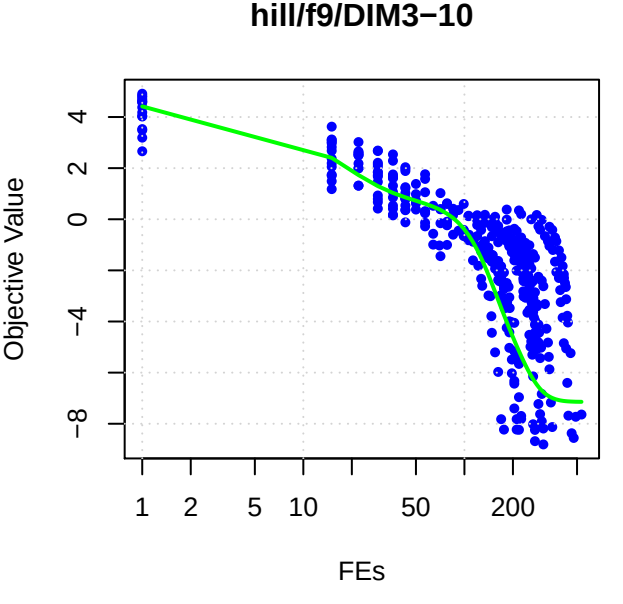
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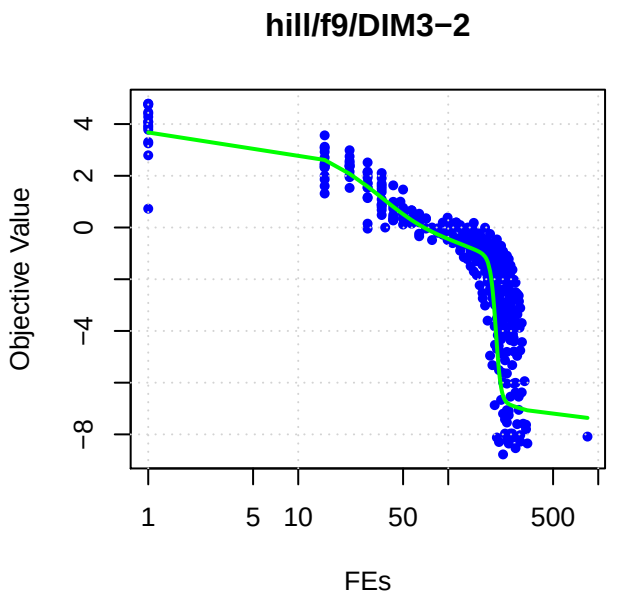
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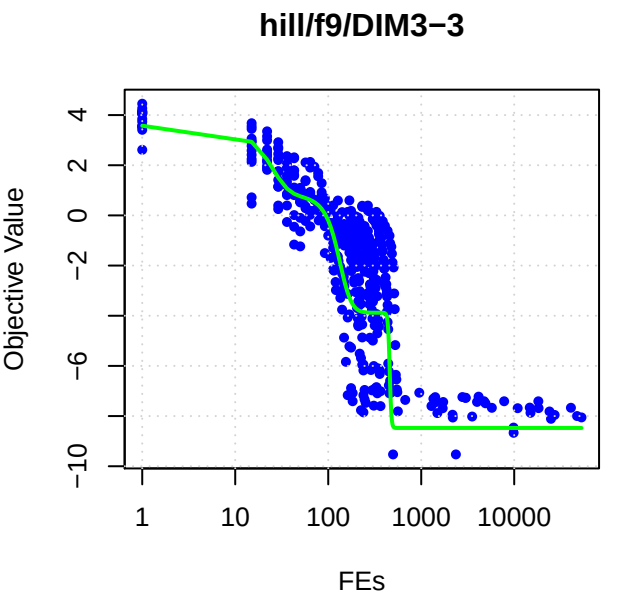
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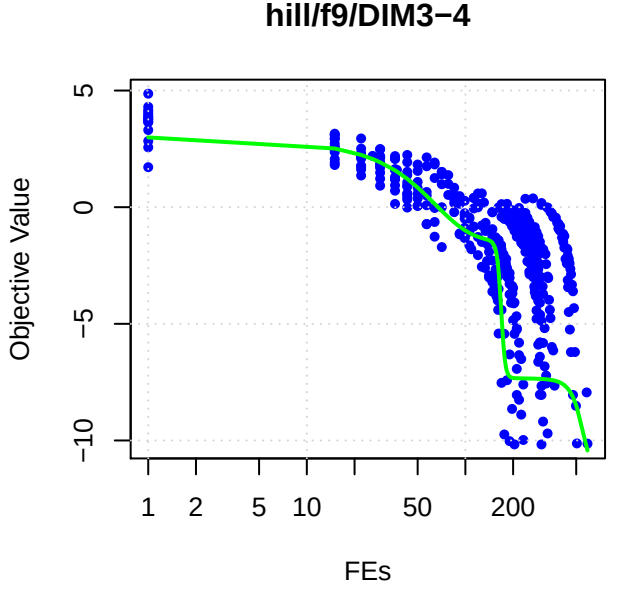
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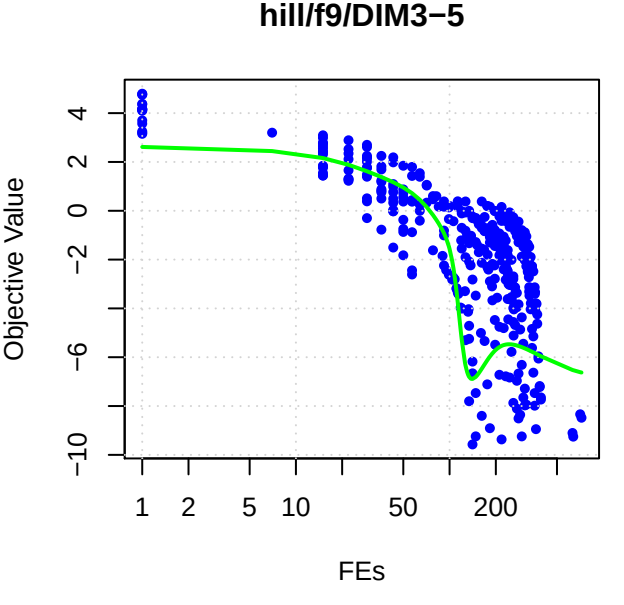
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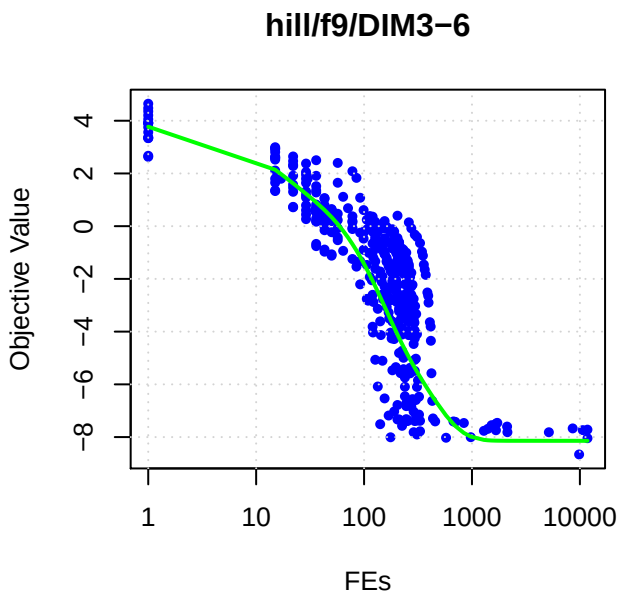
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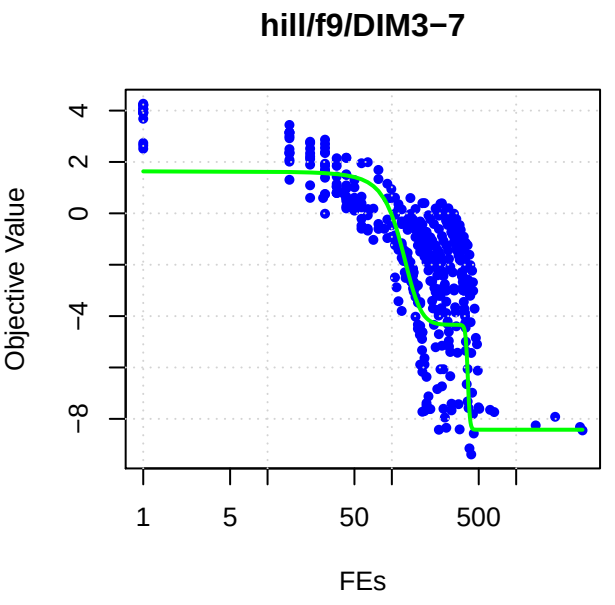
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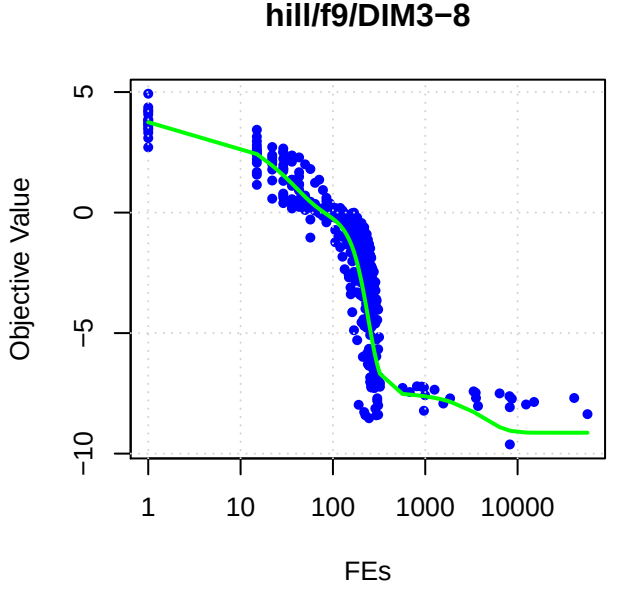
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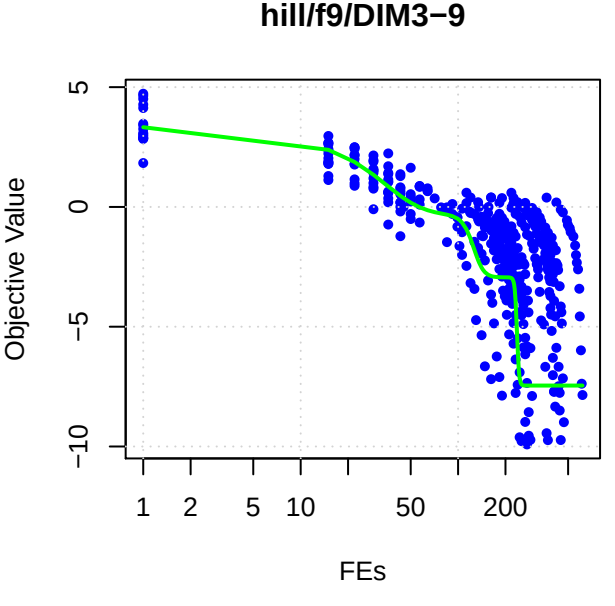
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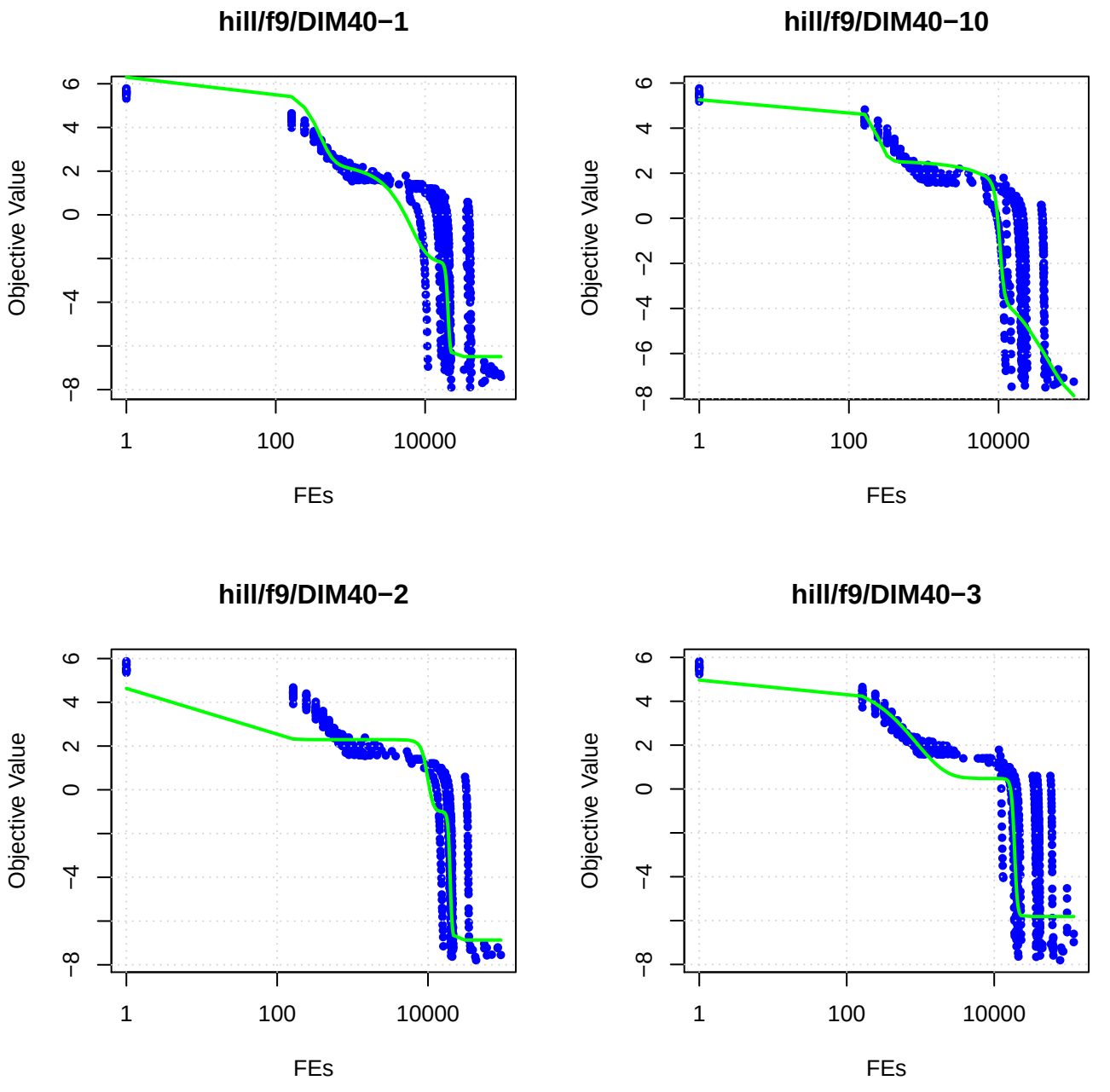
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hill/f9/DIM40−2
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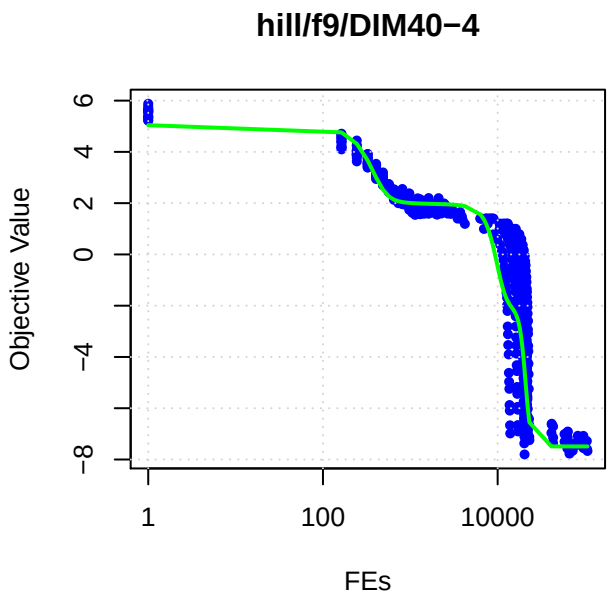
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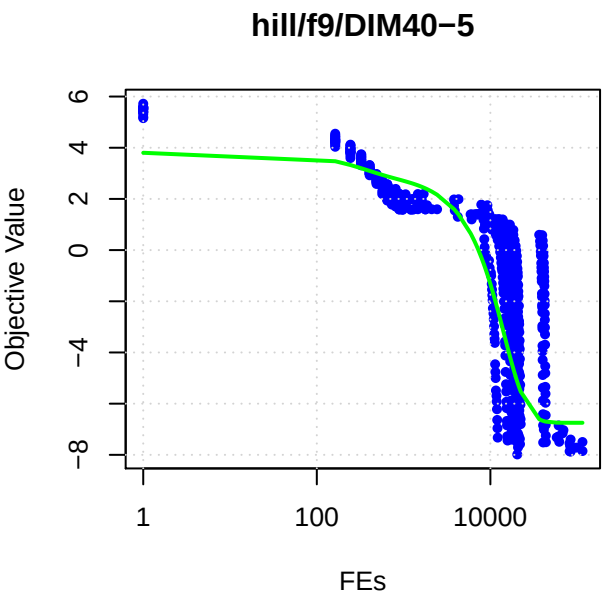
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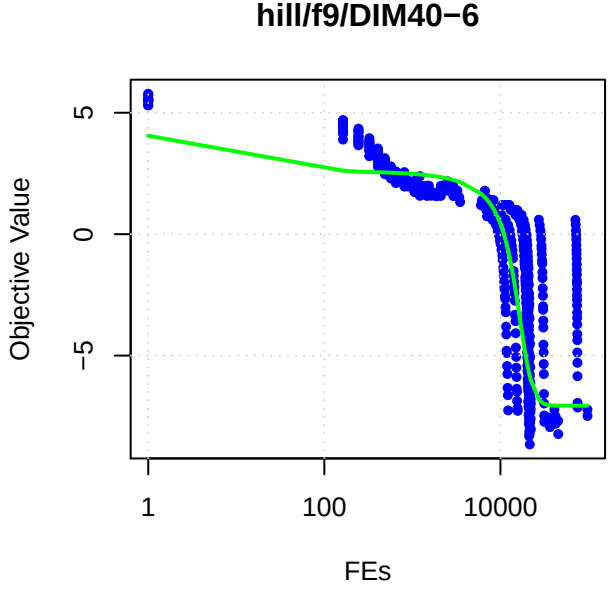
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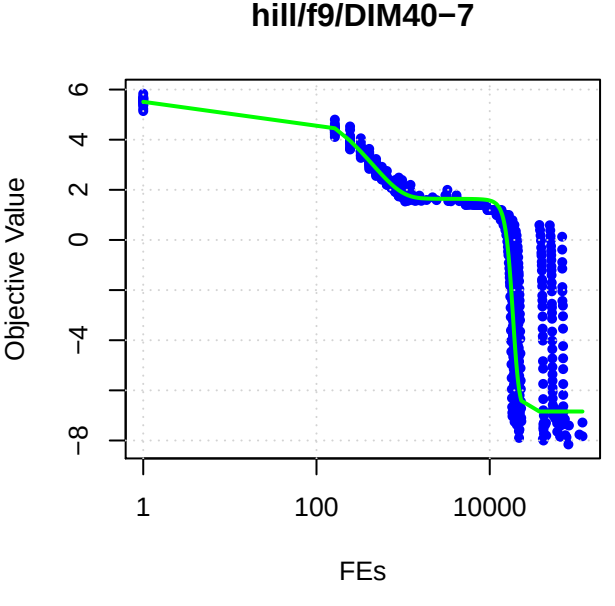
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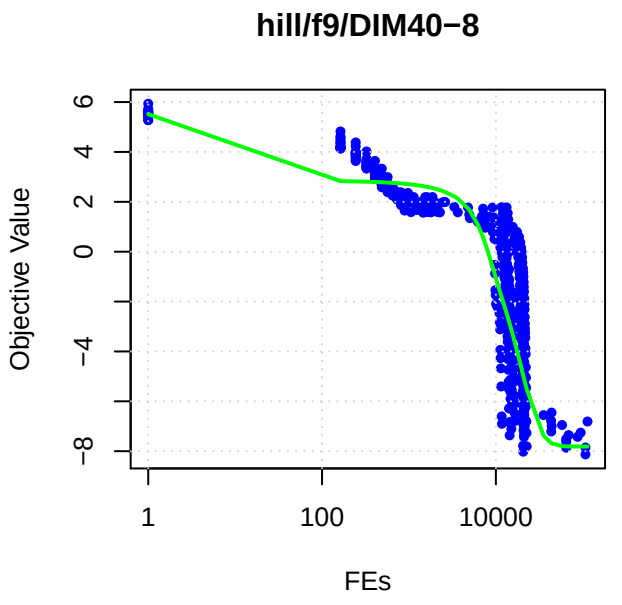
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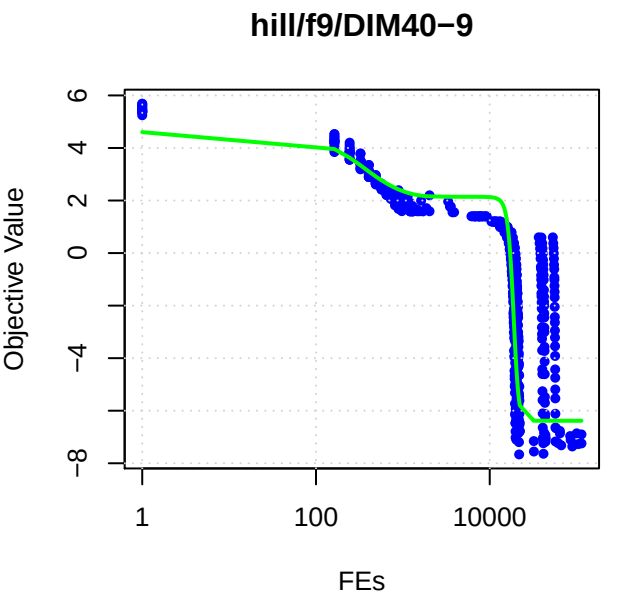
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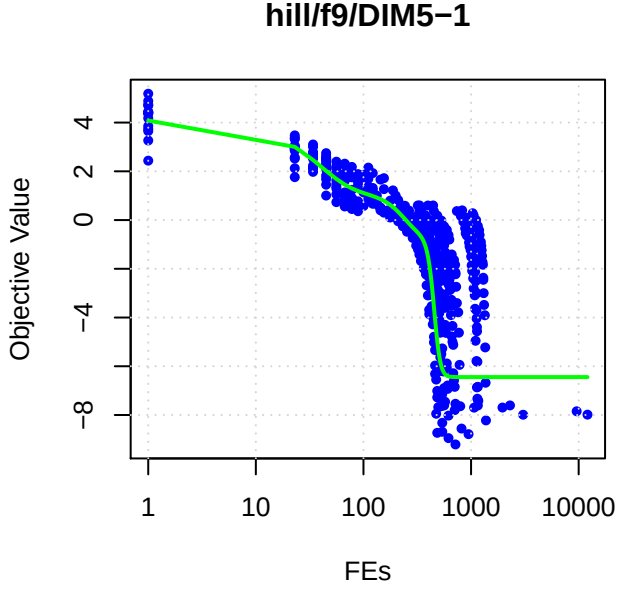
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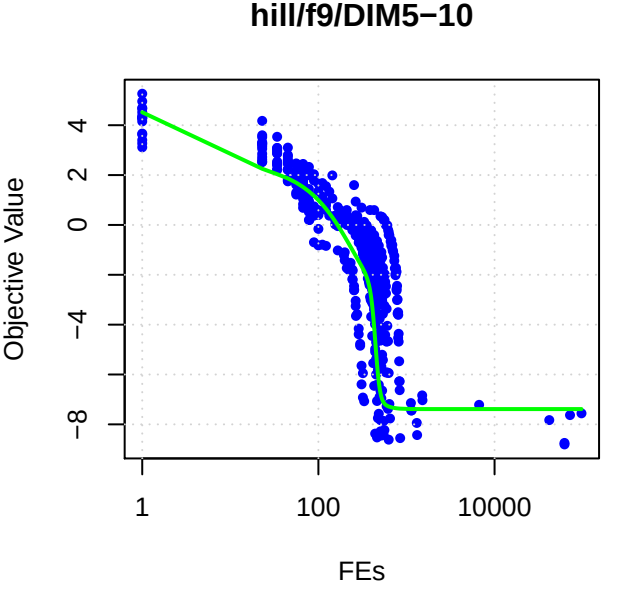
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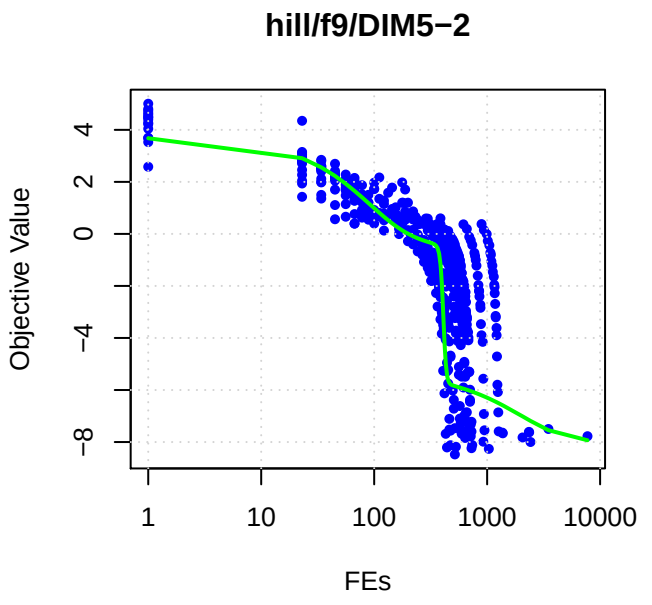
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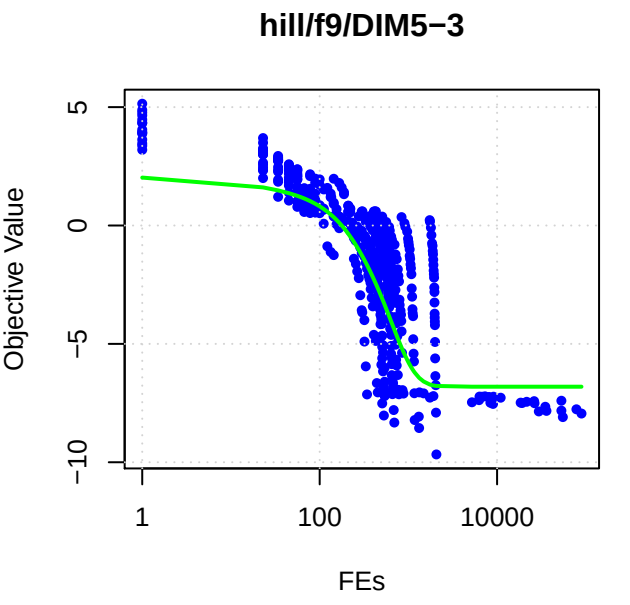
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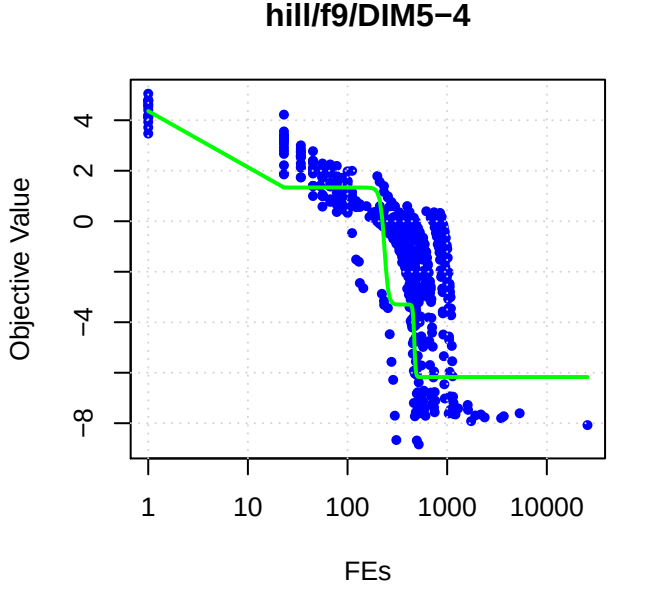
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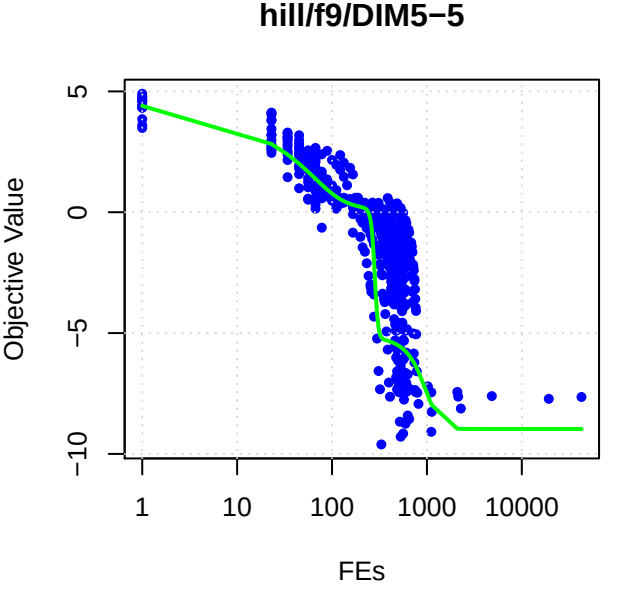
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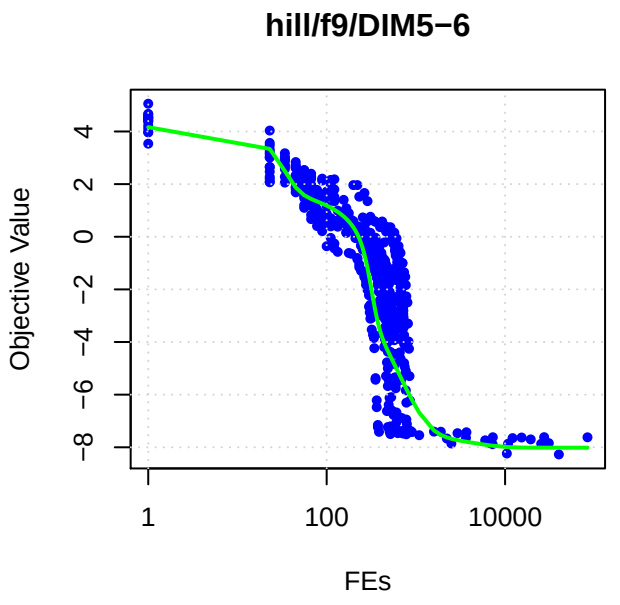
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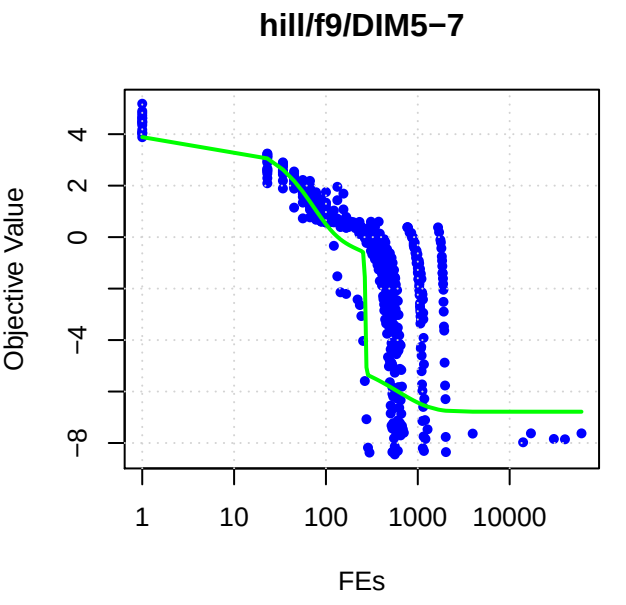
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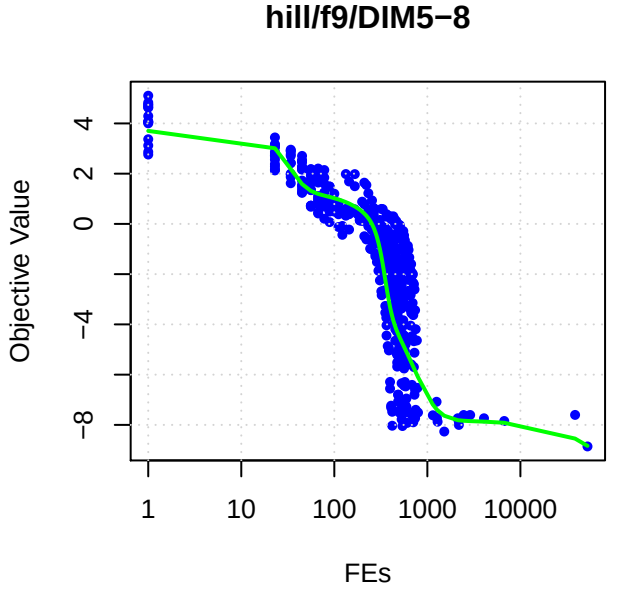
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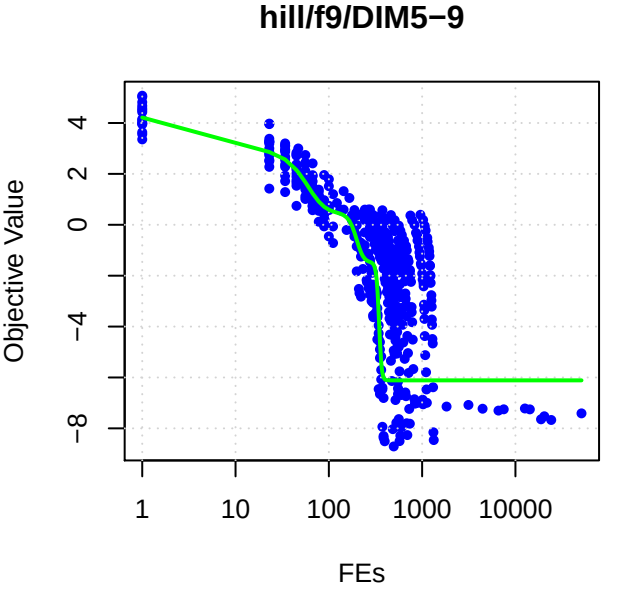
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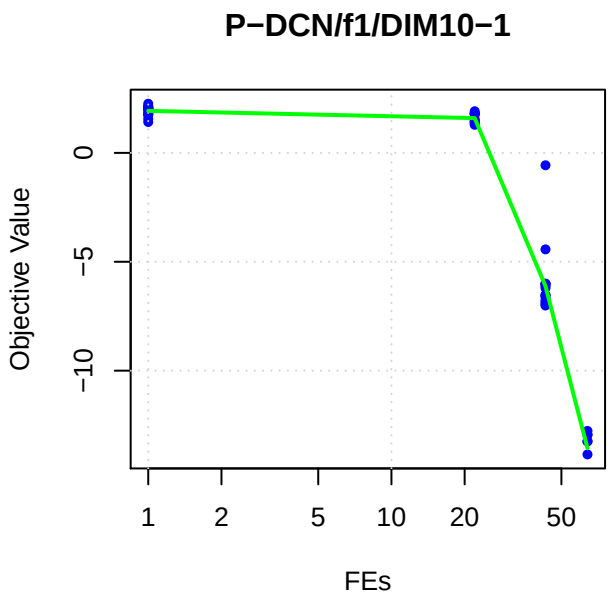
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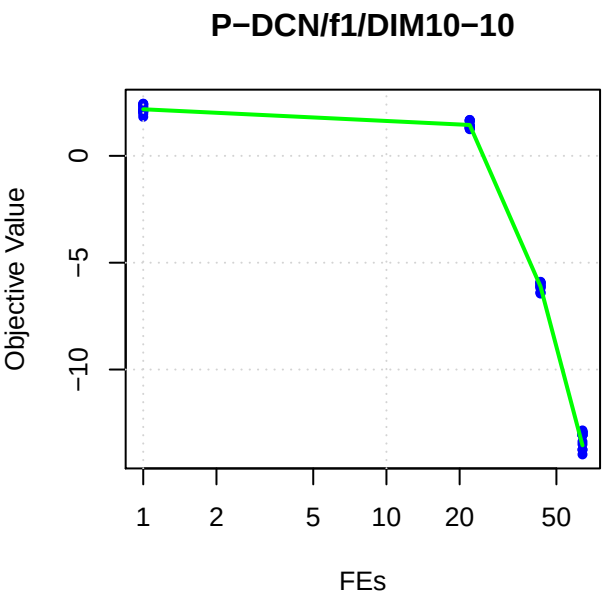
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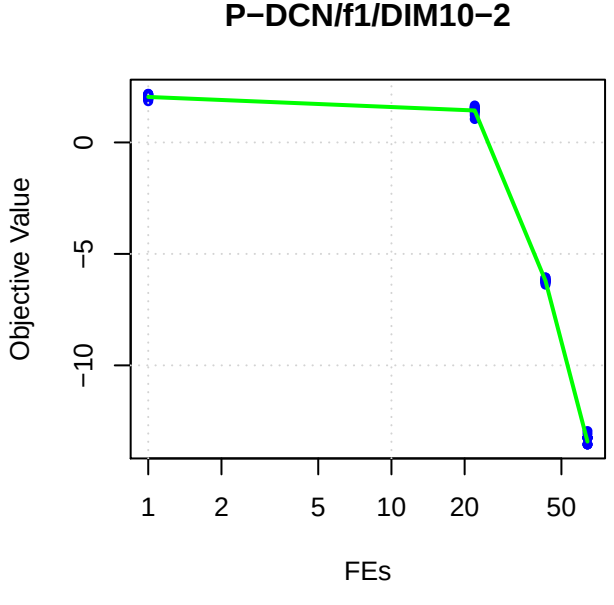
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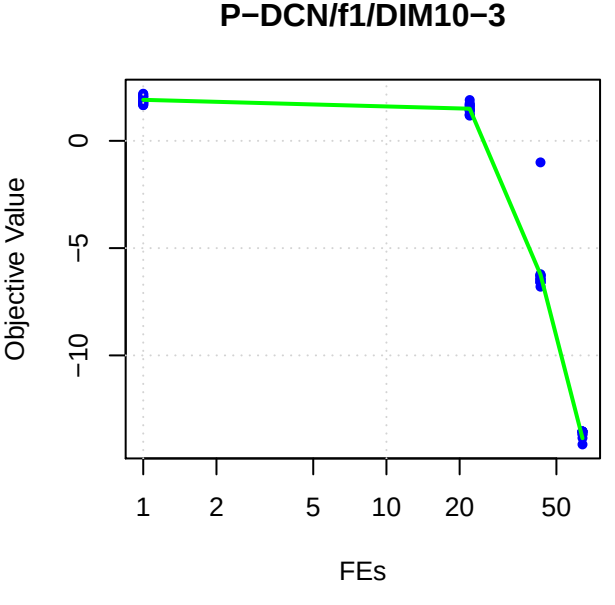
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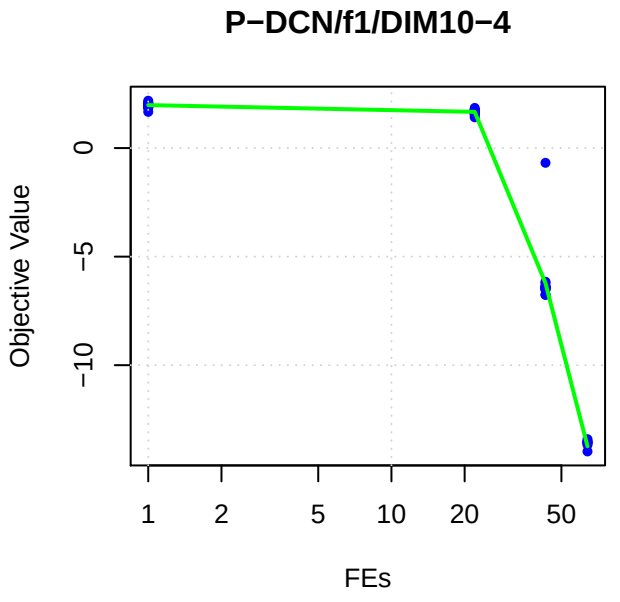
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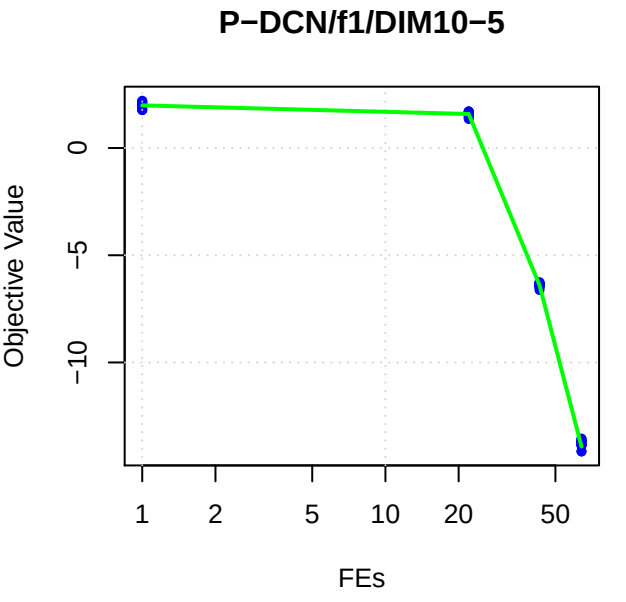
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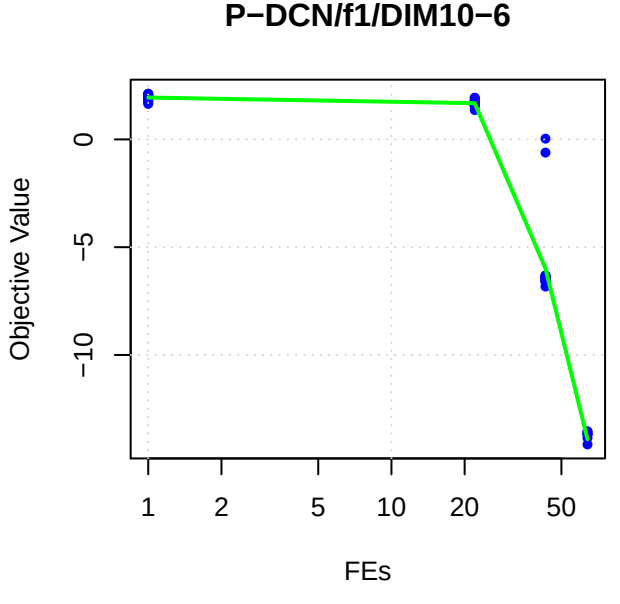
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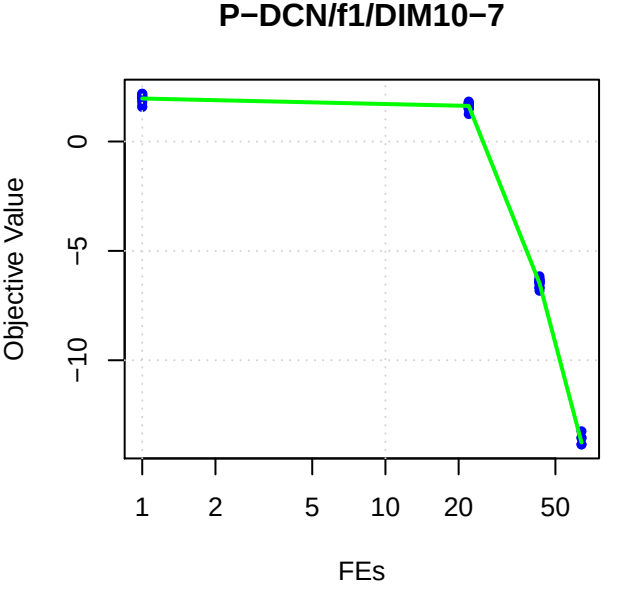
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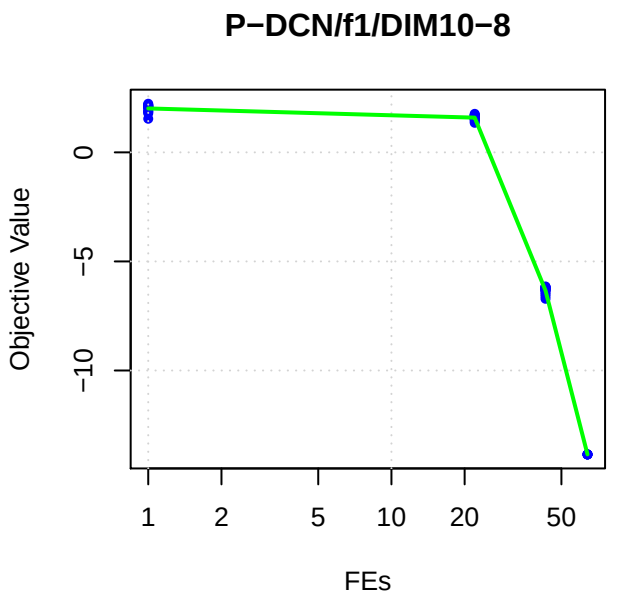
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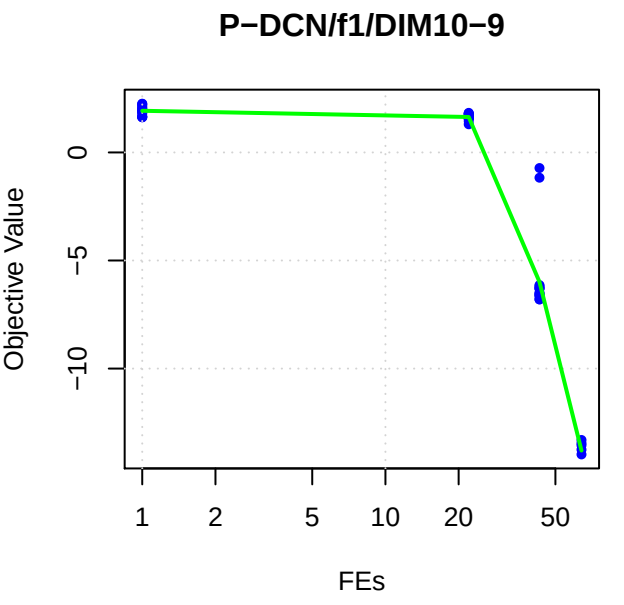
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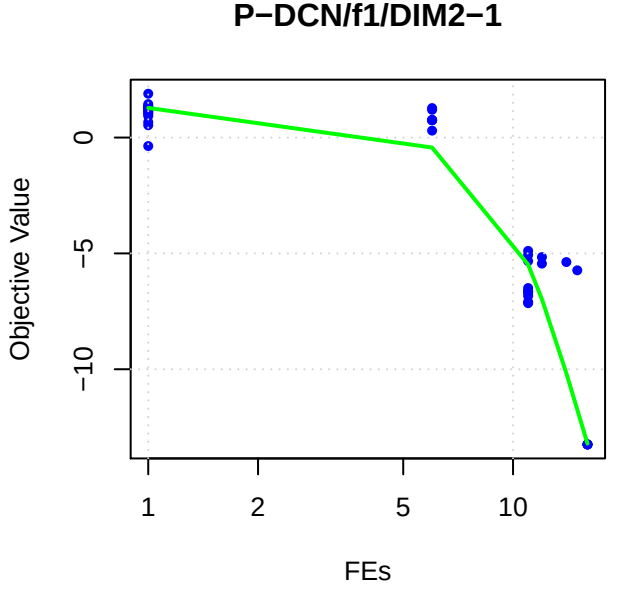
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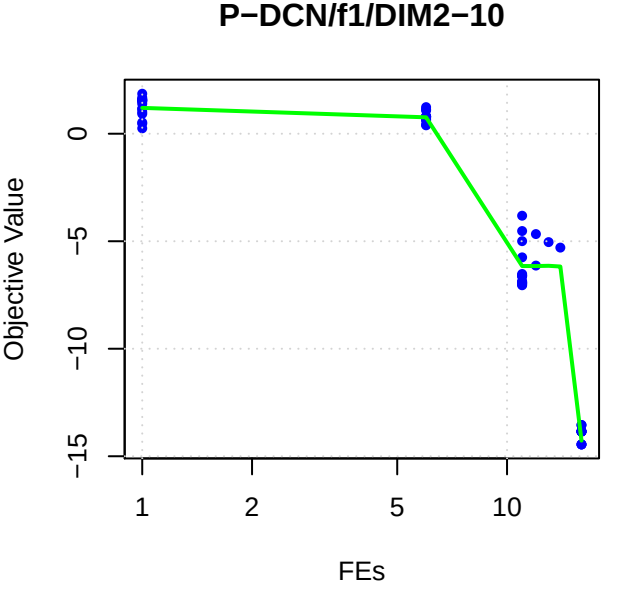
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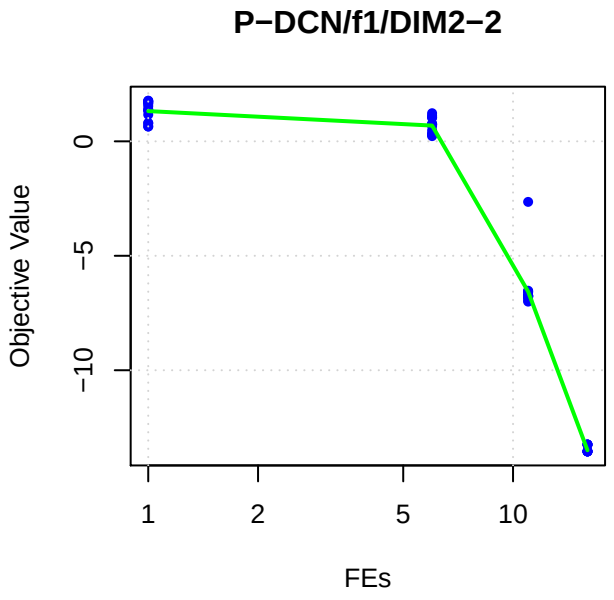
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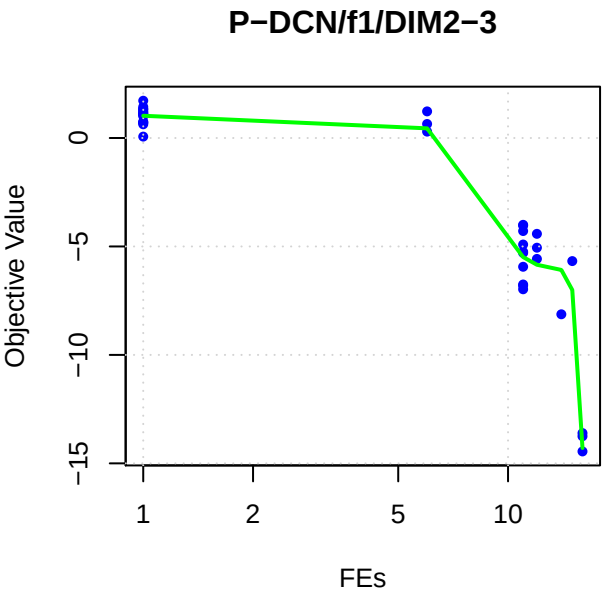
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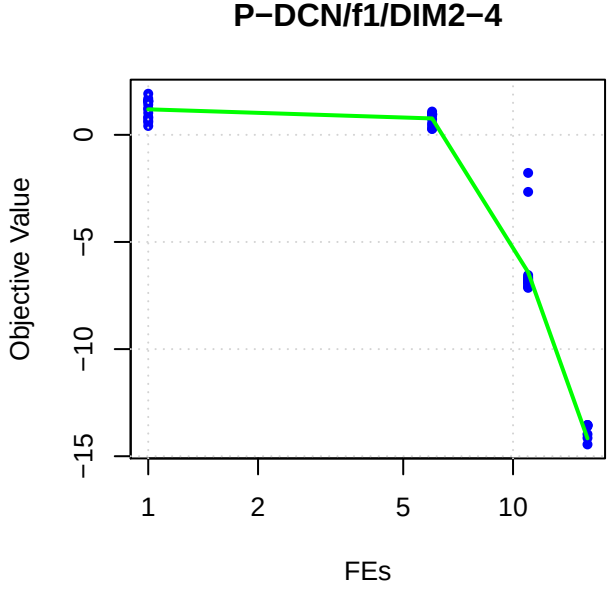
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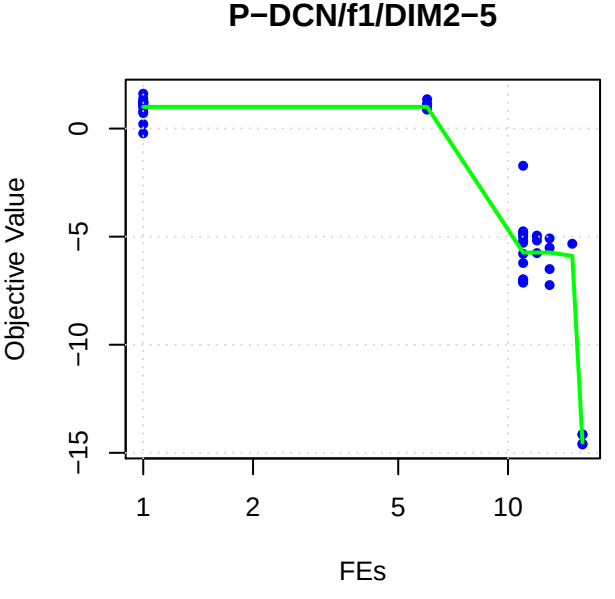
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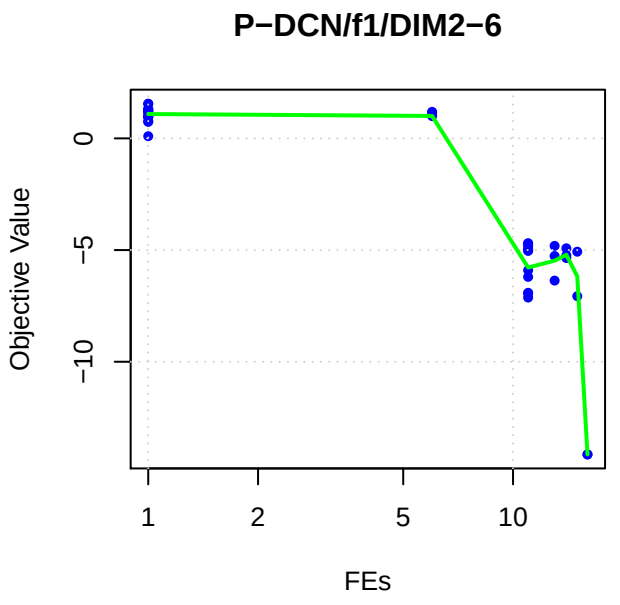
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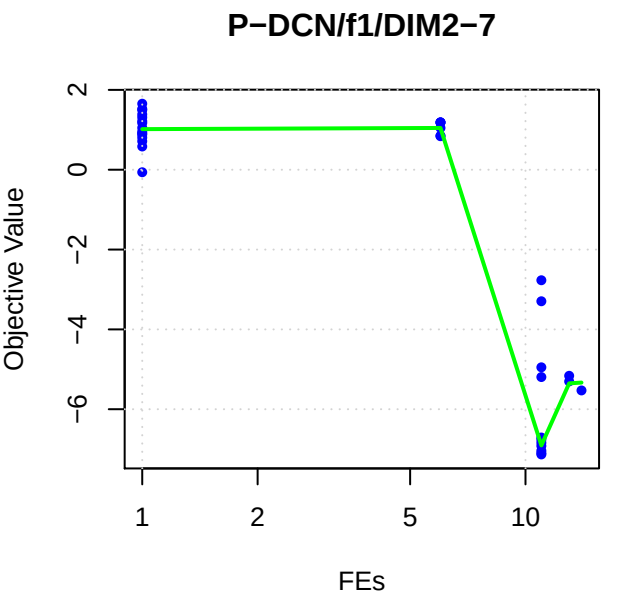
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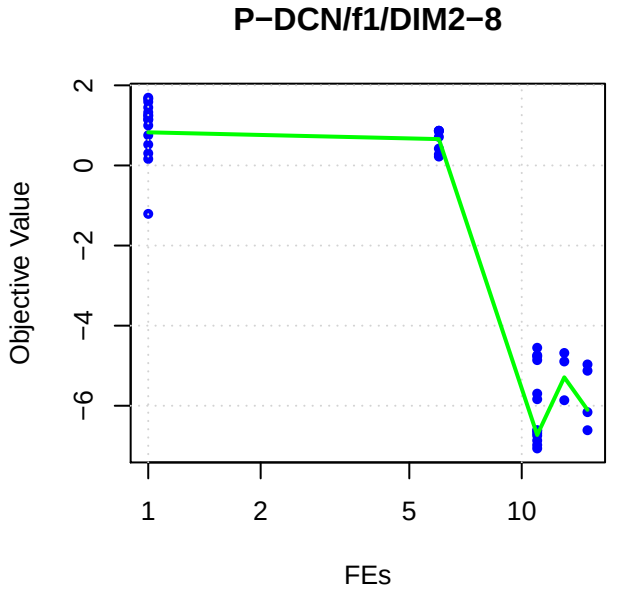
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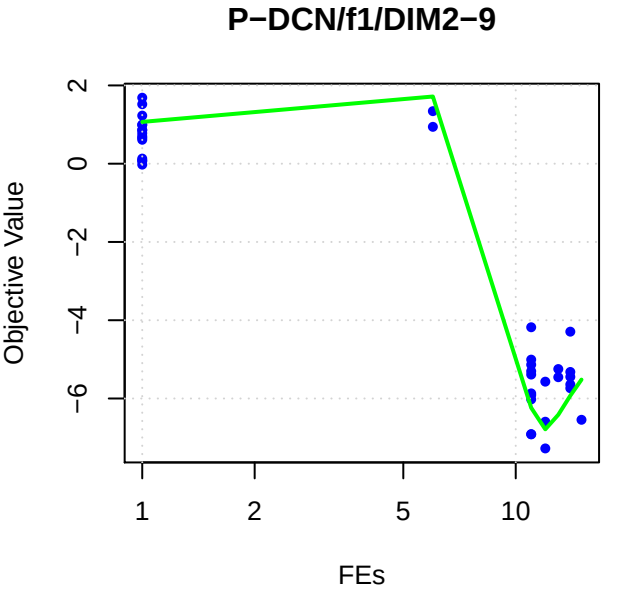
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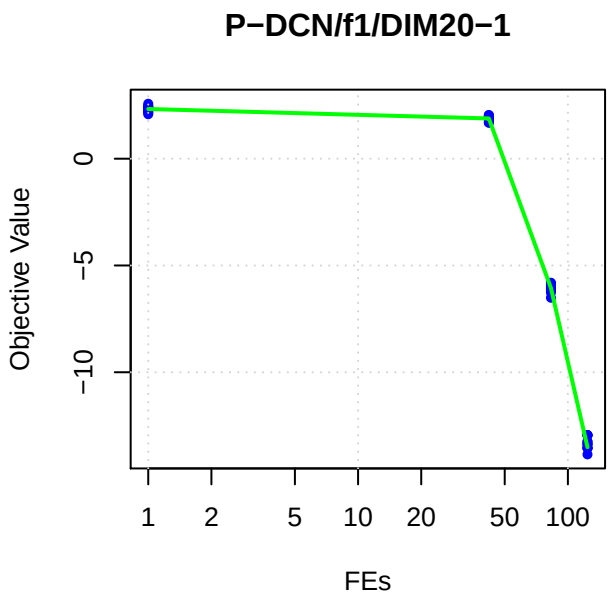
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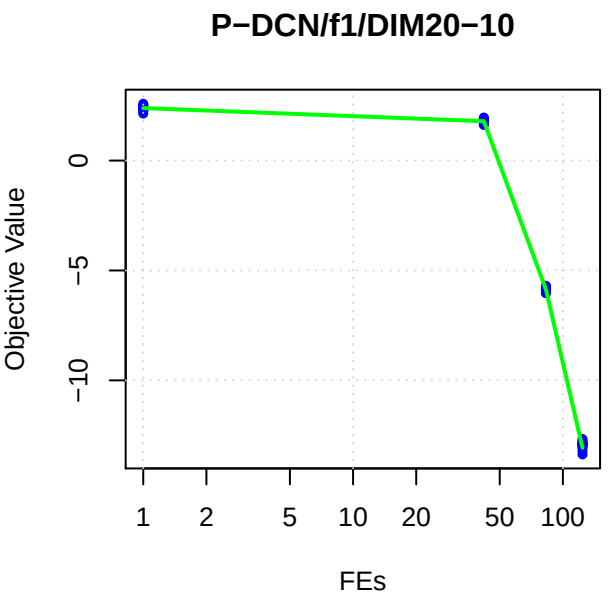
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Objective Value
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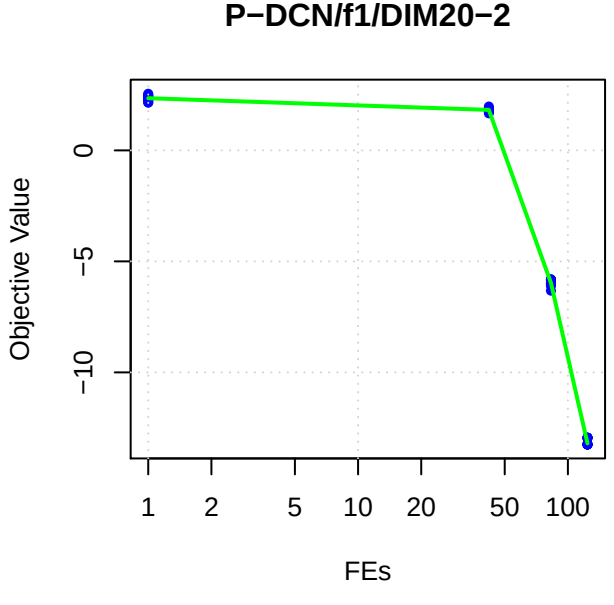
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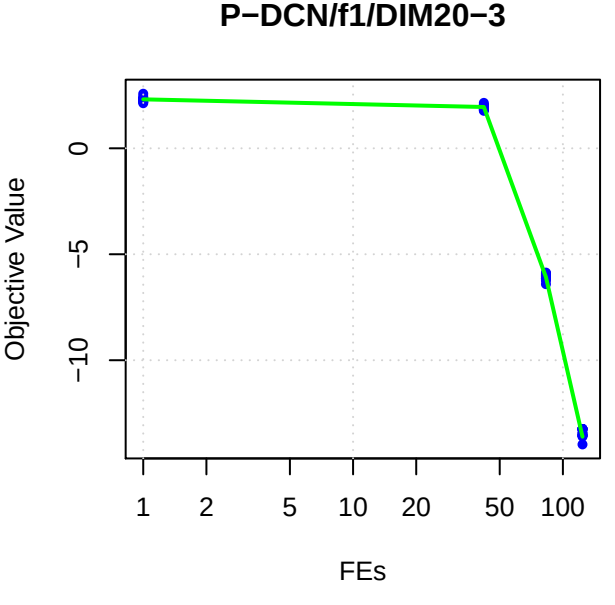
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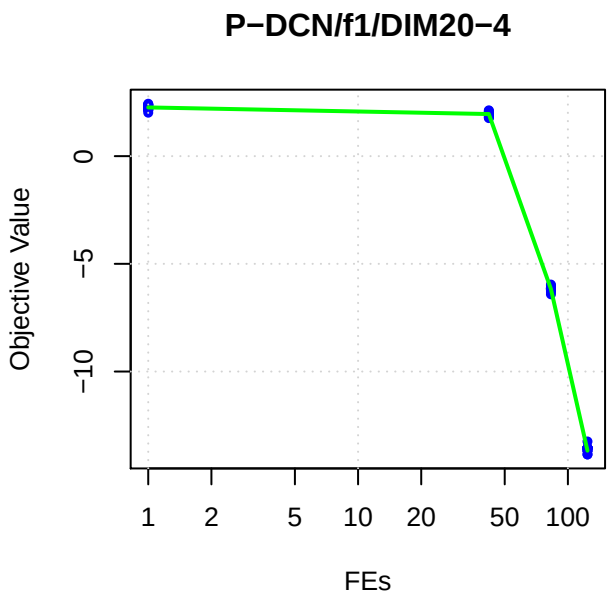
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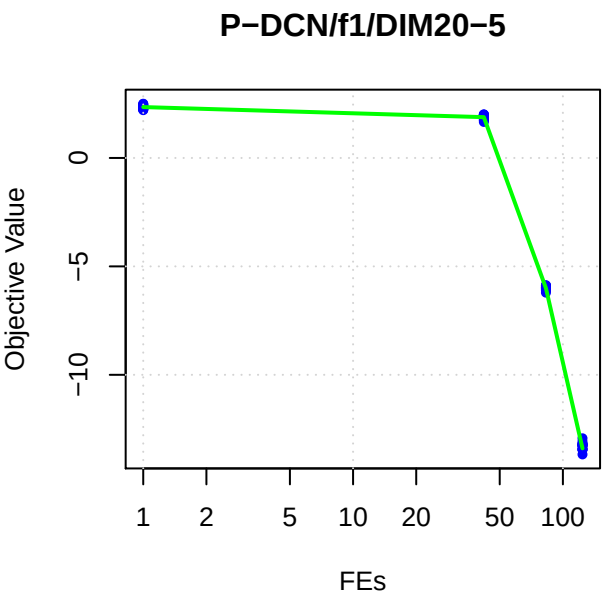
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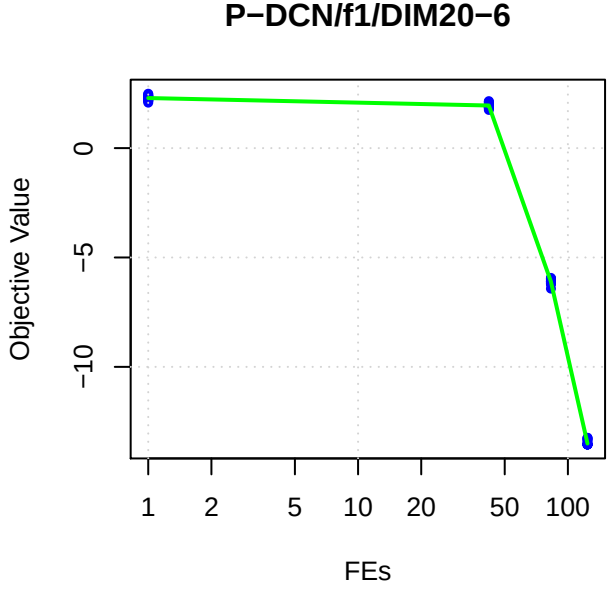
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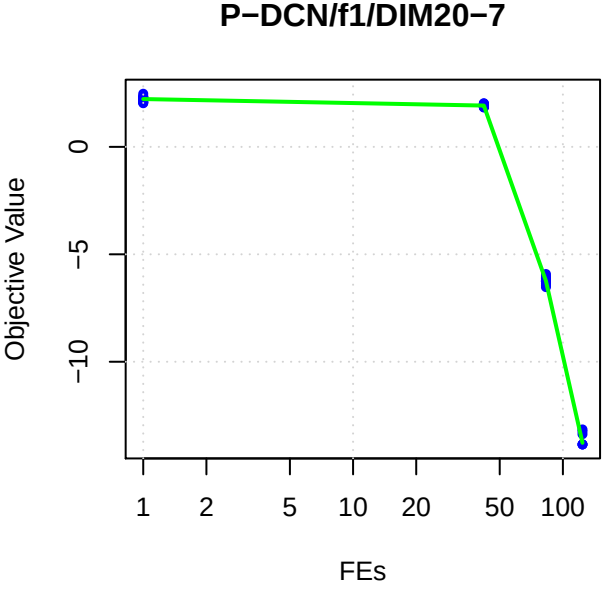
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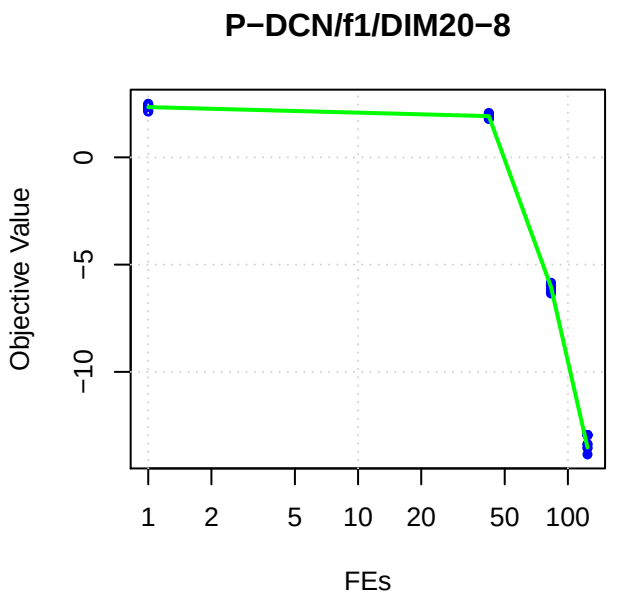
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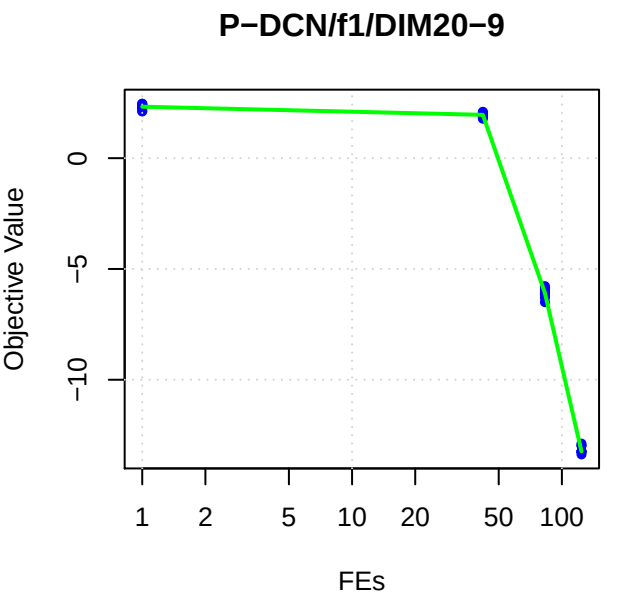
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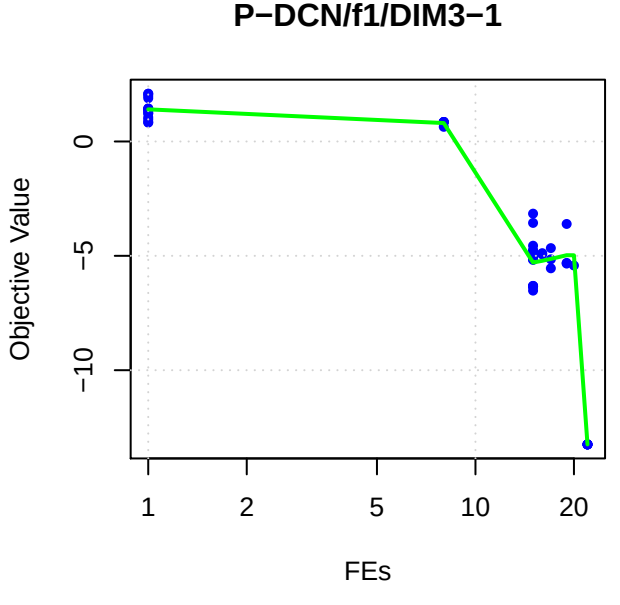
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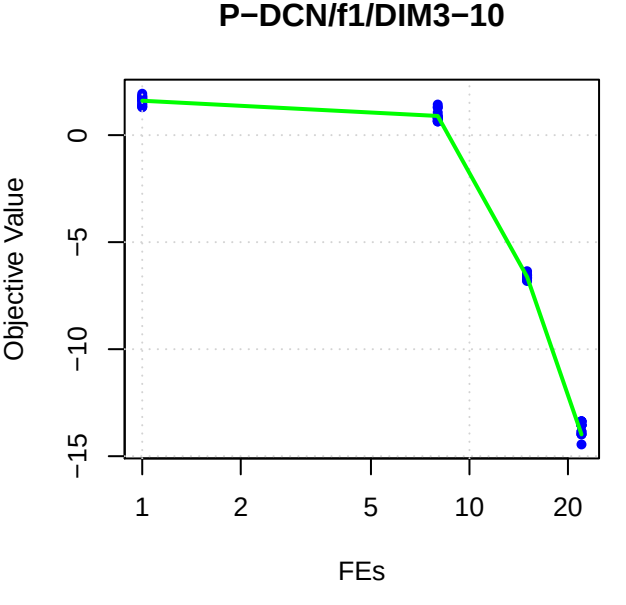
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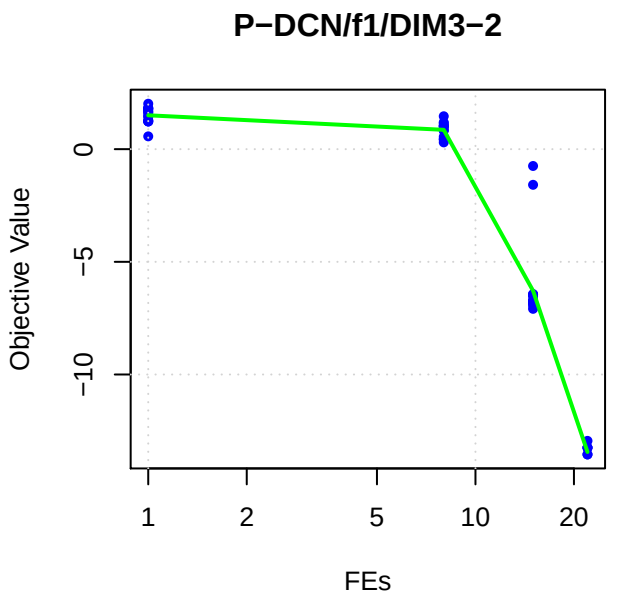
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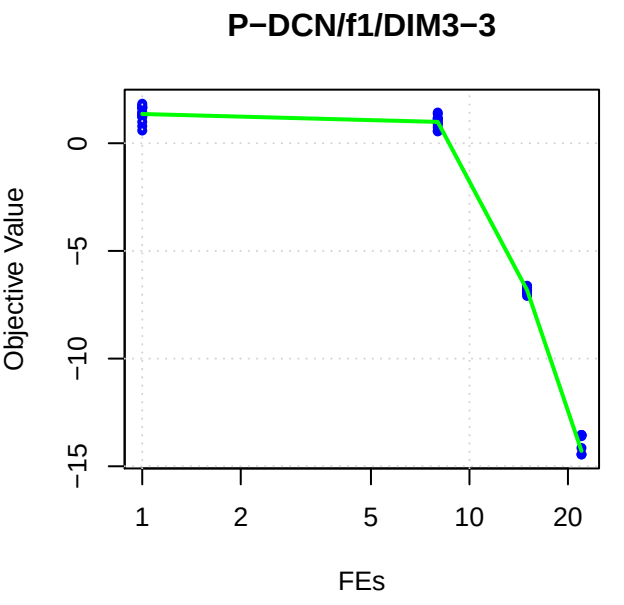
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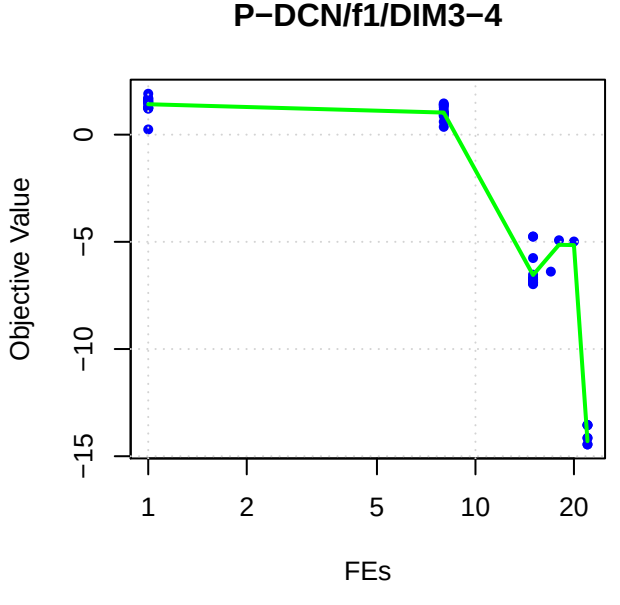
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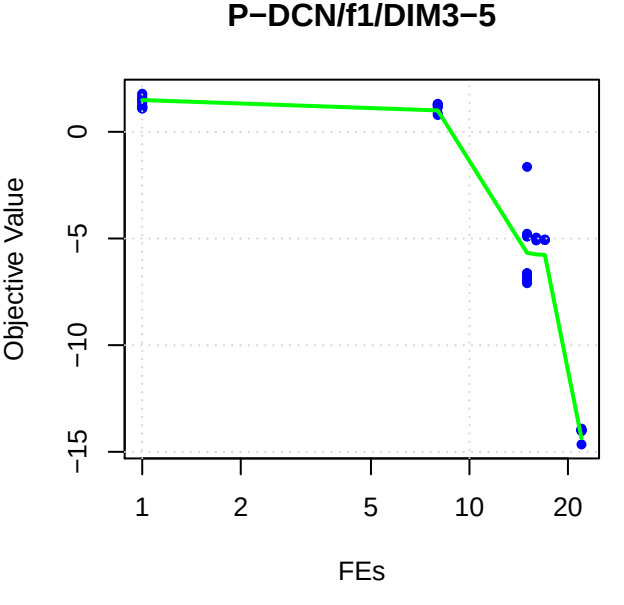
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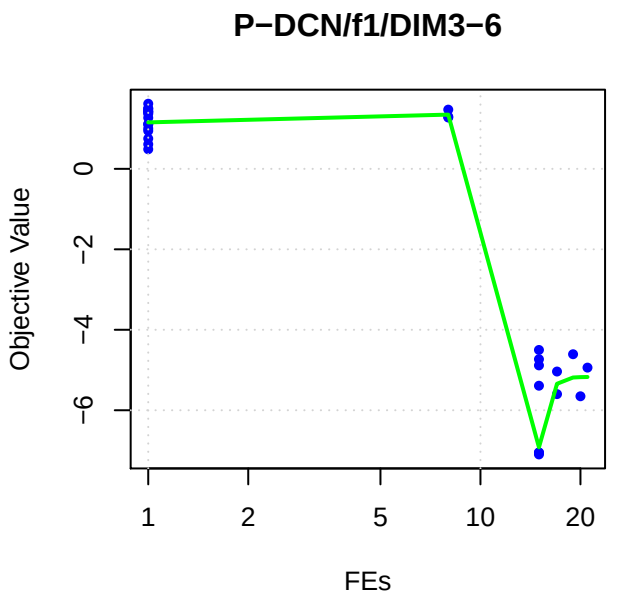
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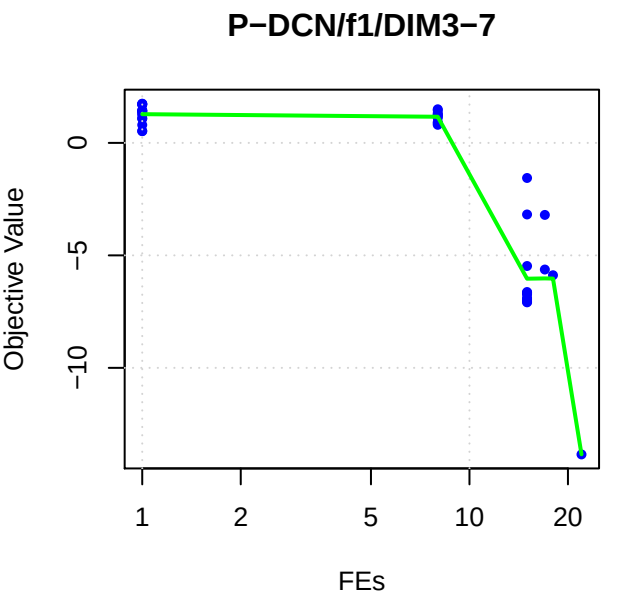
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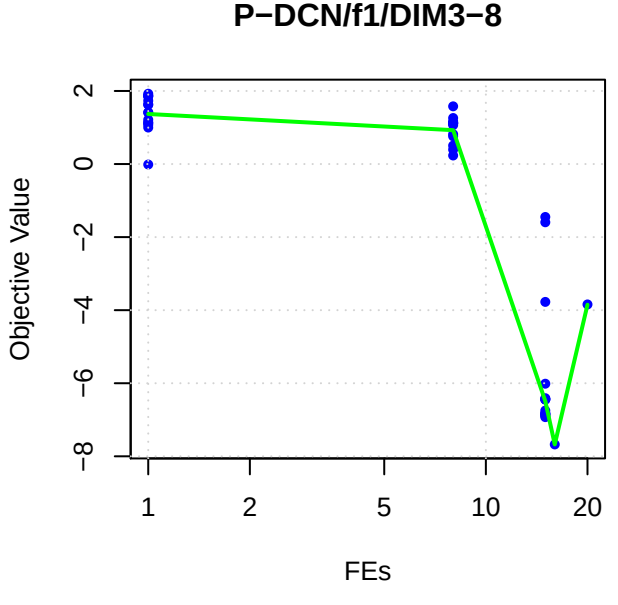
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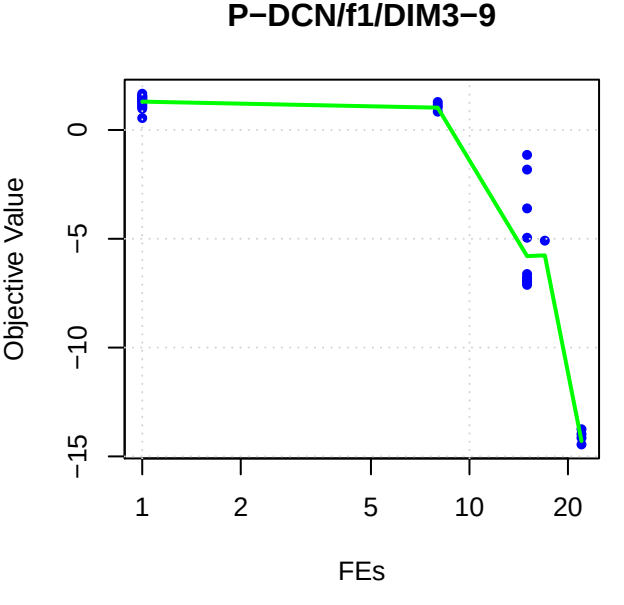
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Objective Value
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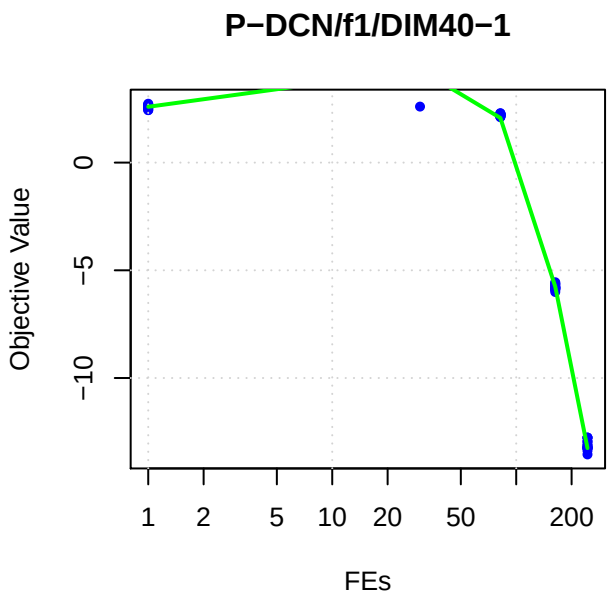
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Objective Value
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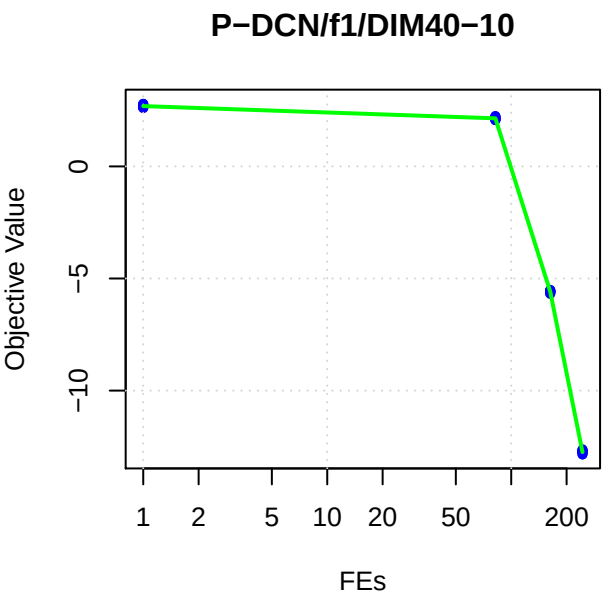
FEs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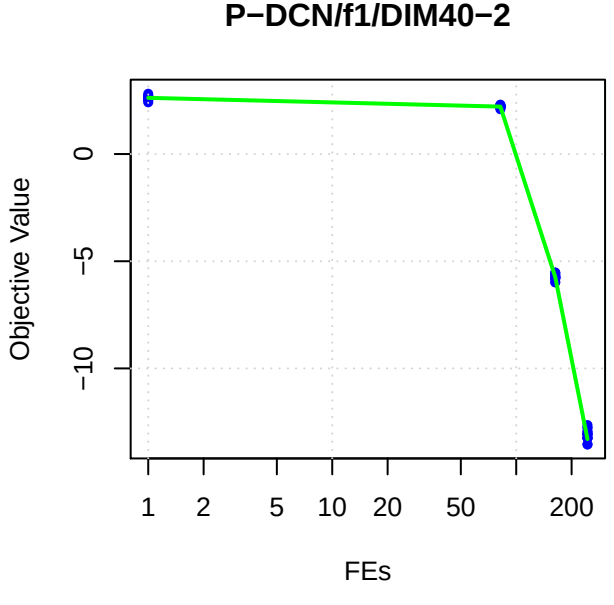
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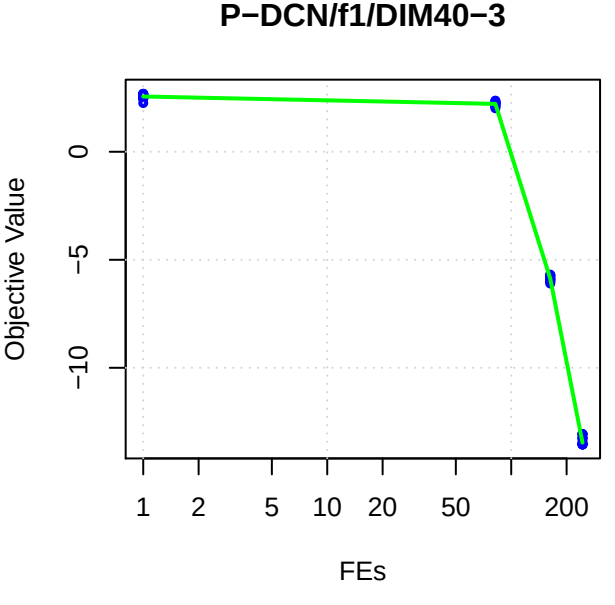
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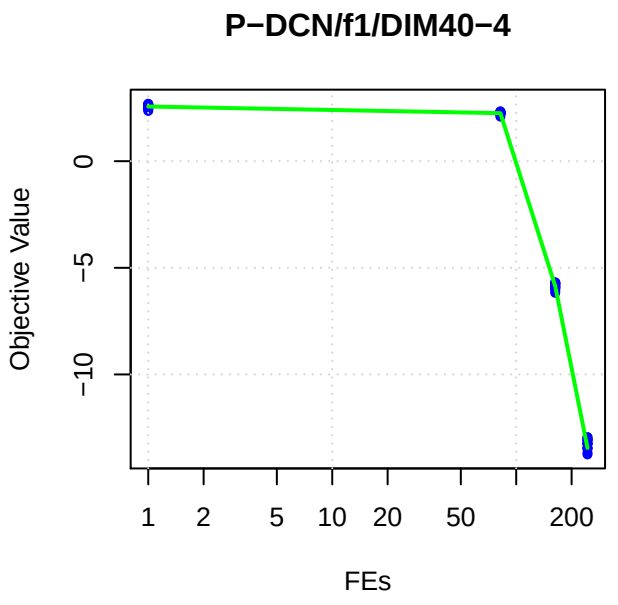
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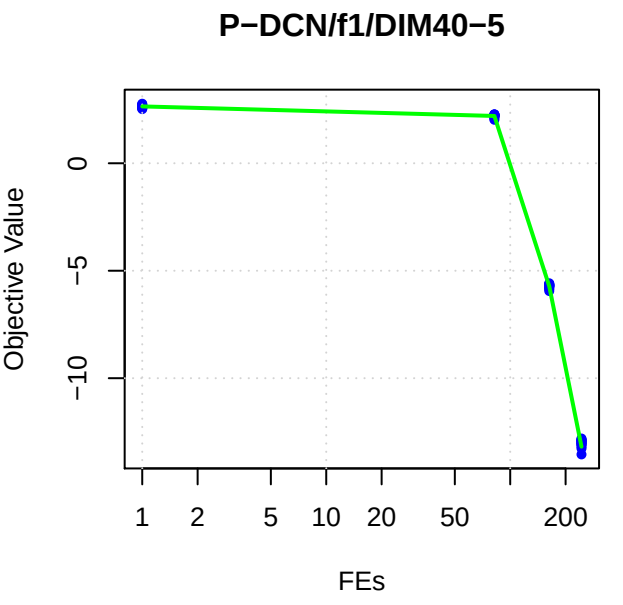
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Objective Value
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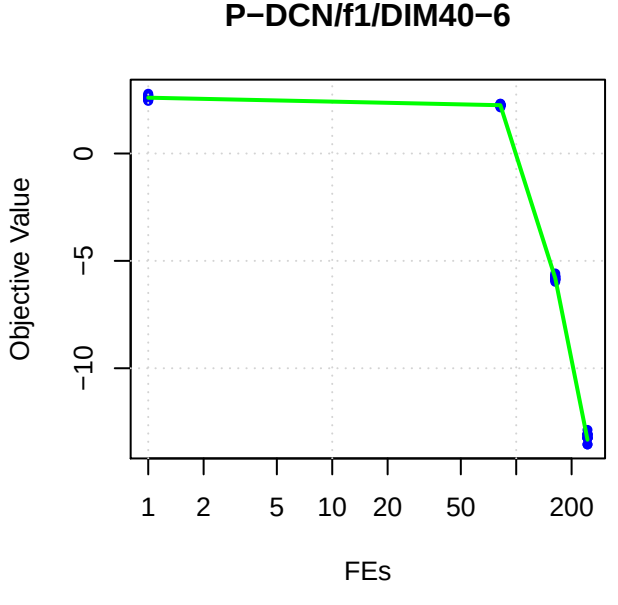
FEs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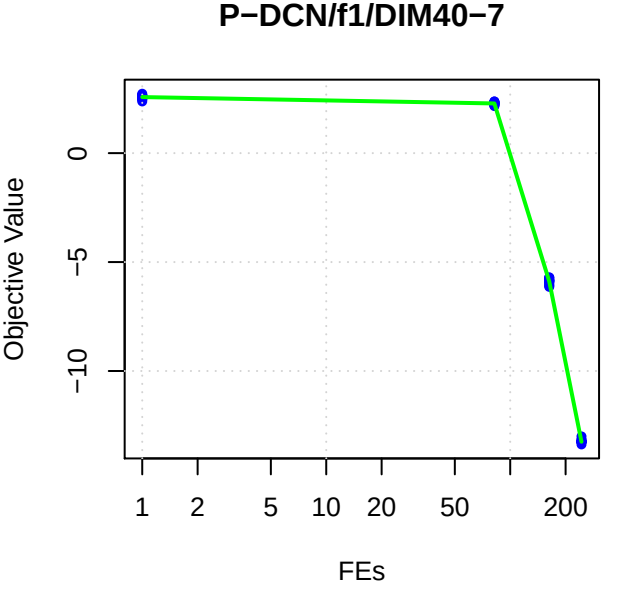
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Objective Value
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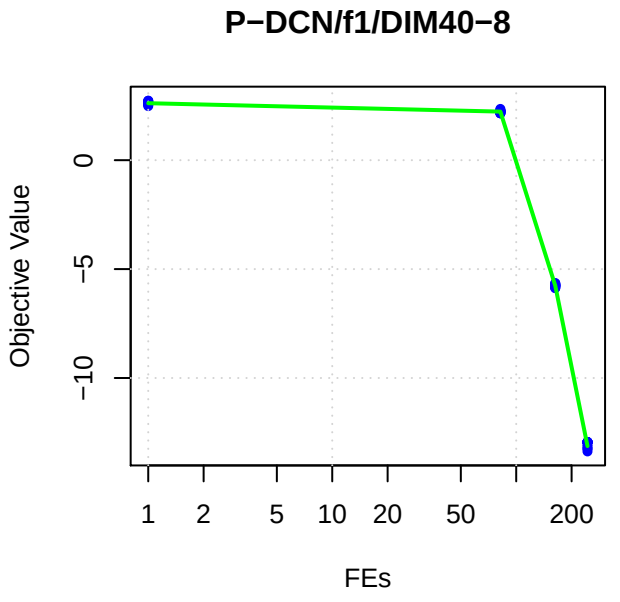
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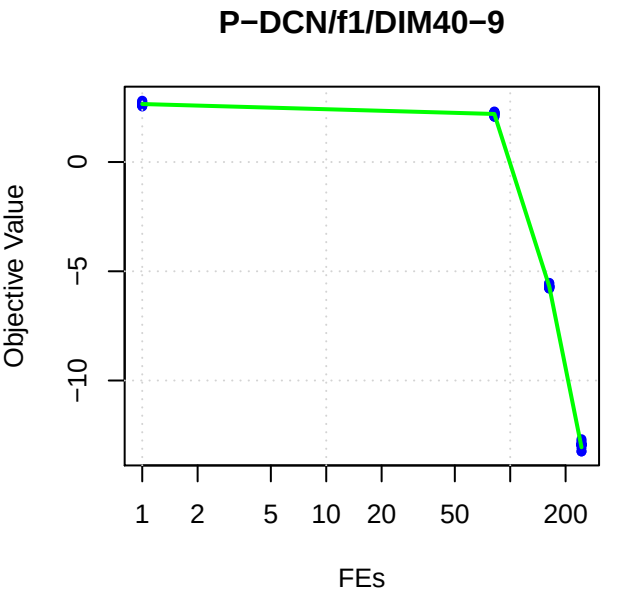
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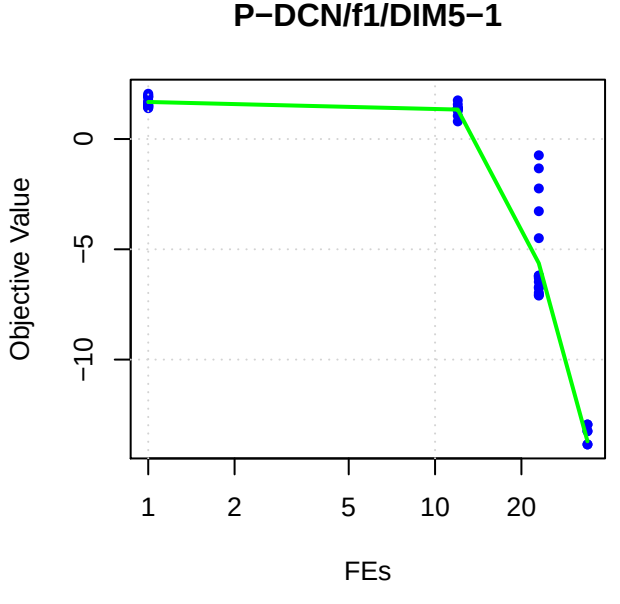
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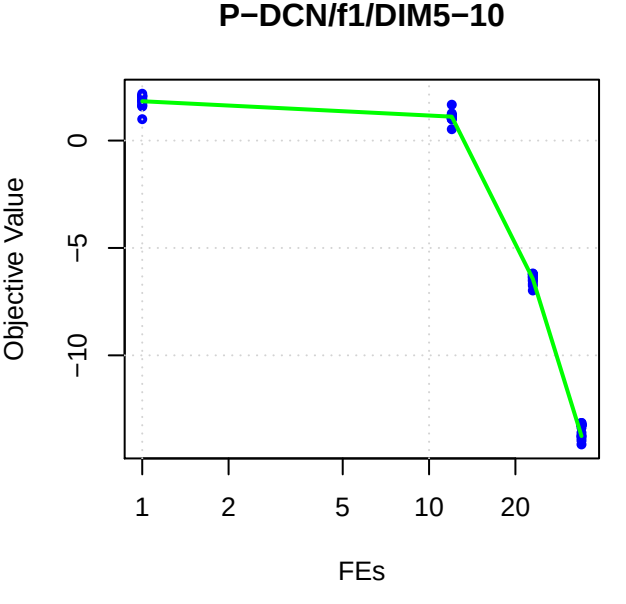
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Objective Value
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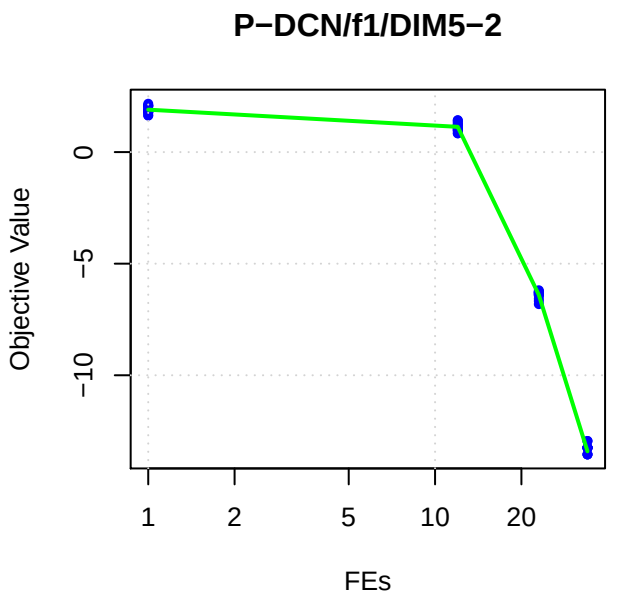
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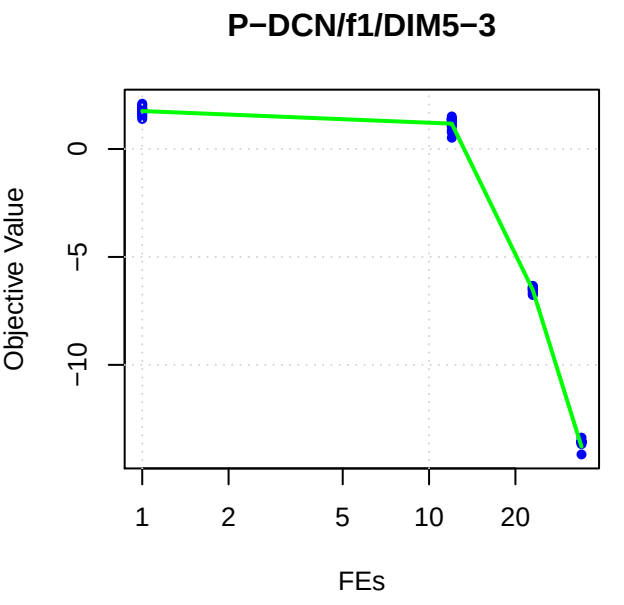
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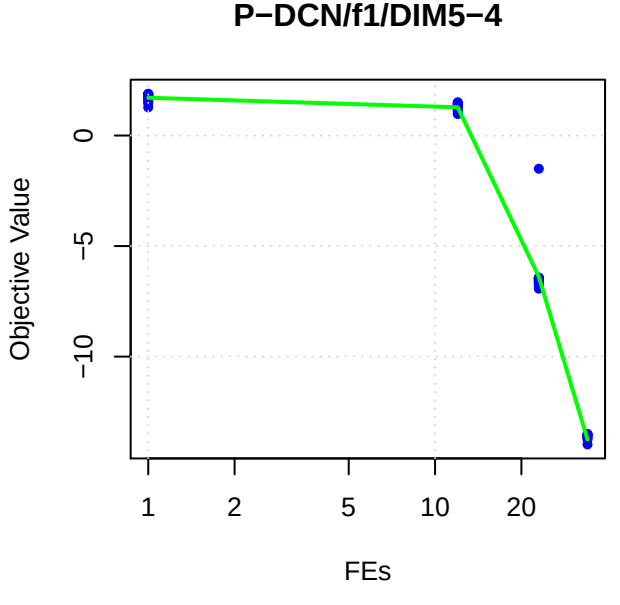
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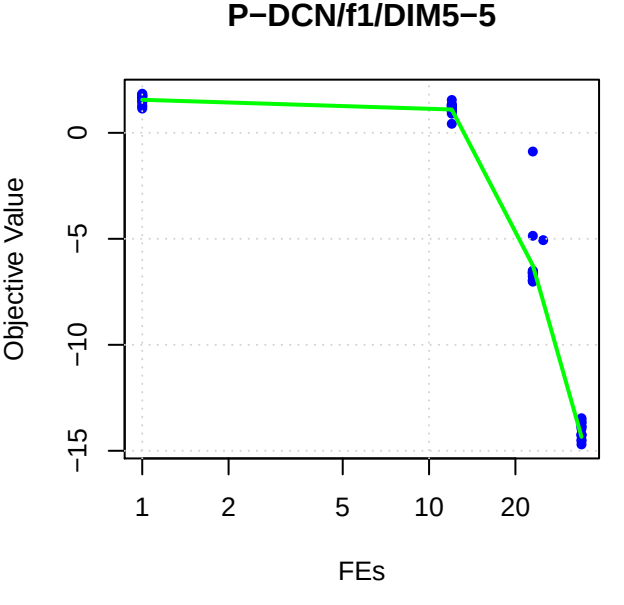
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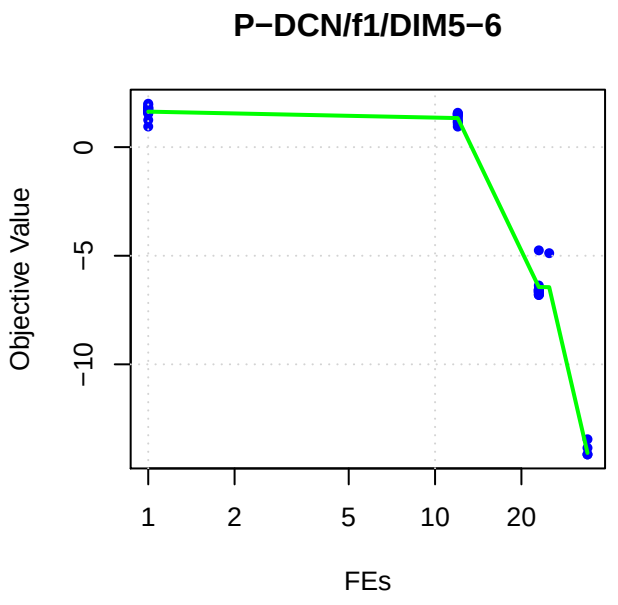
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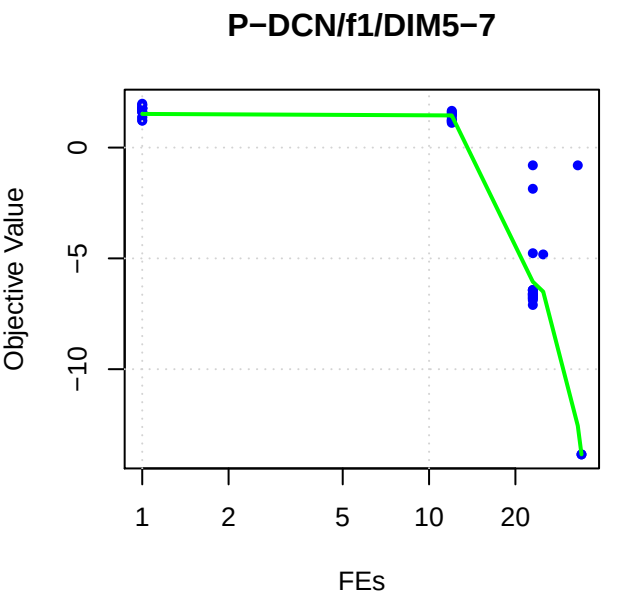
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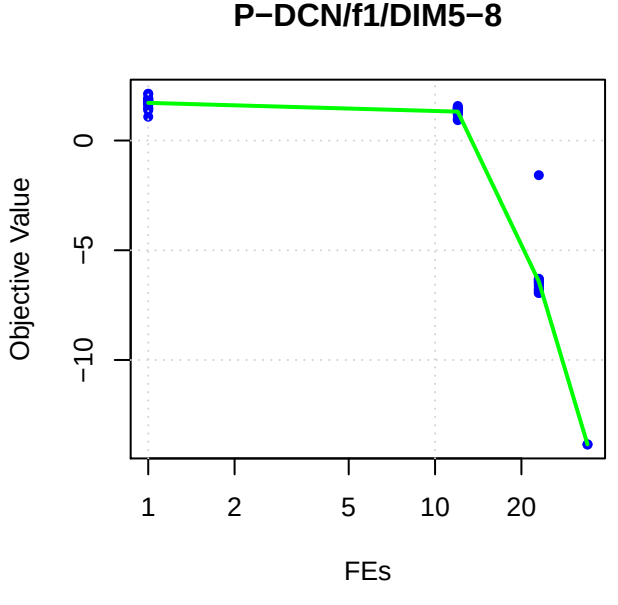
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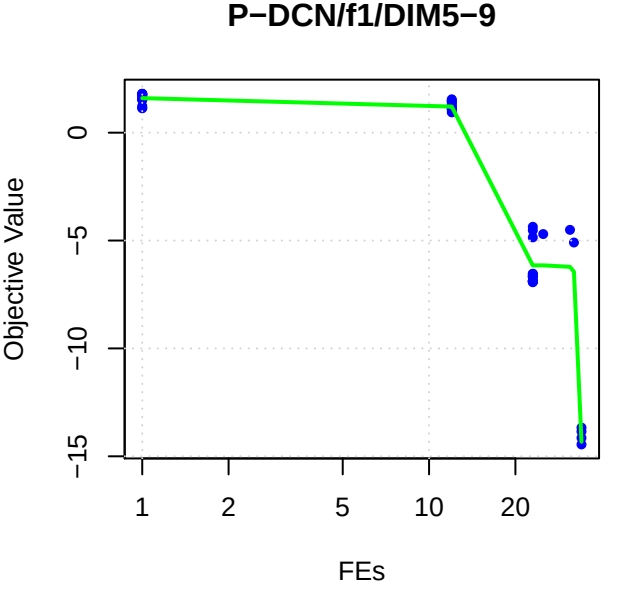
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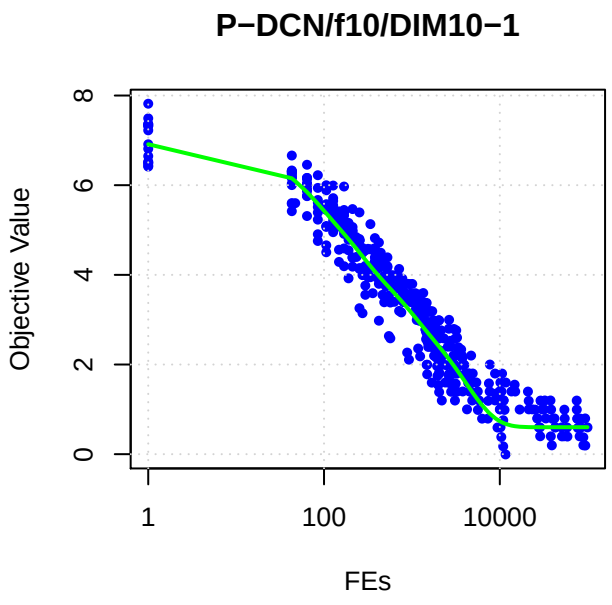
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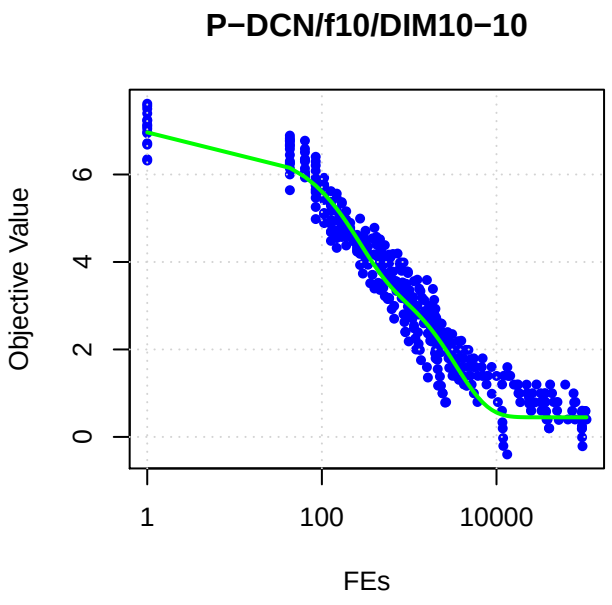
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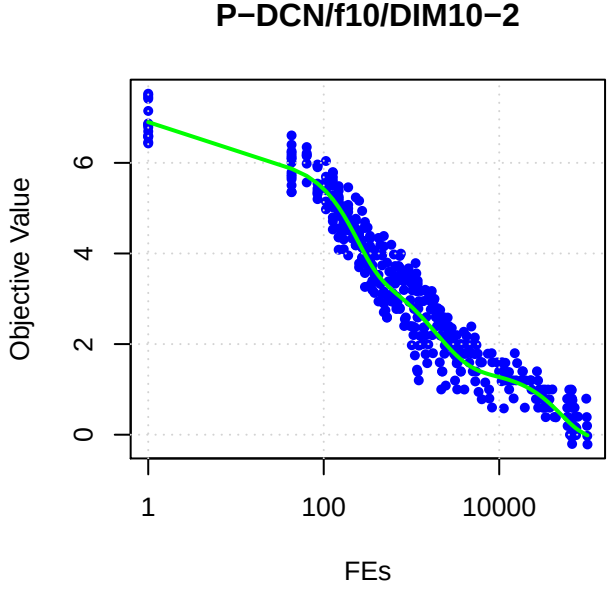
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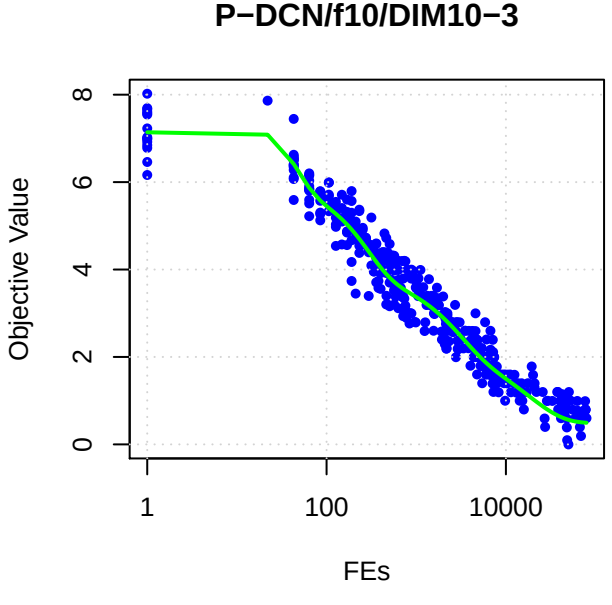
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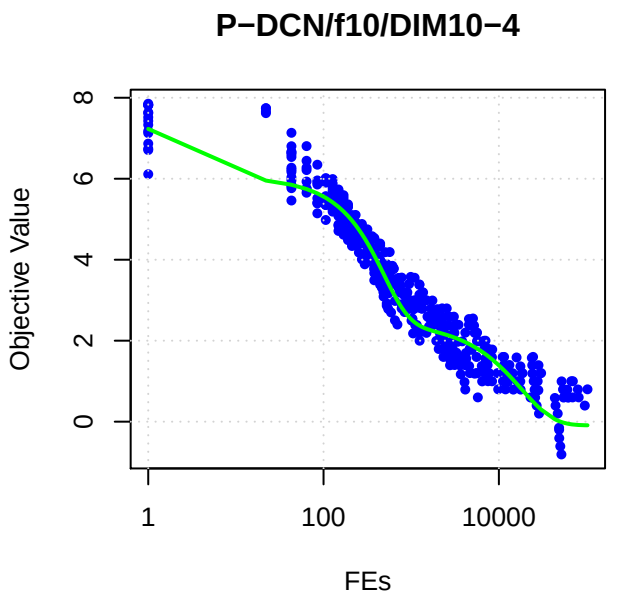
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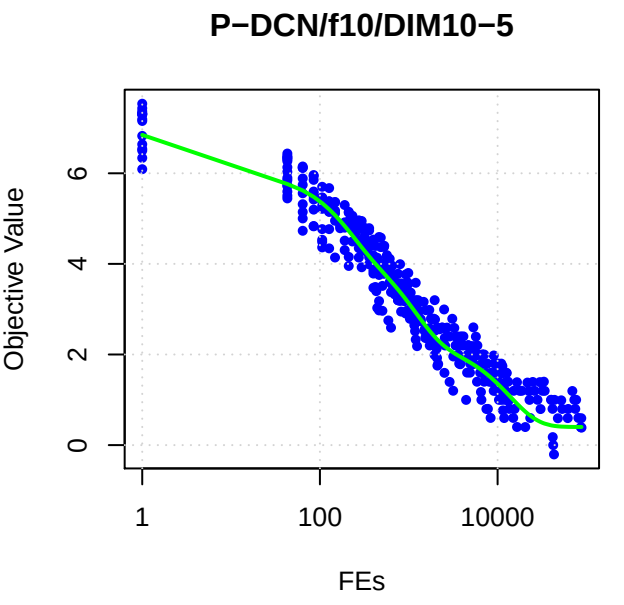
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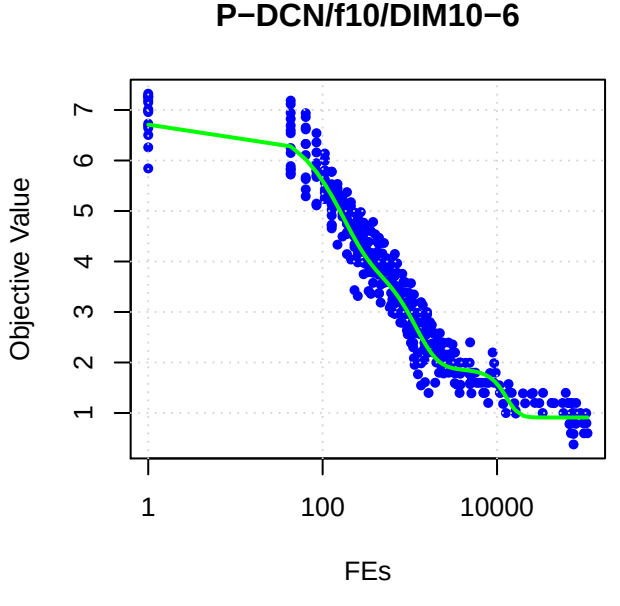
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Objective Value
FEs
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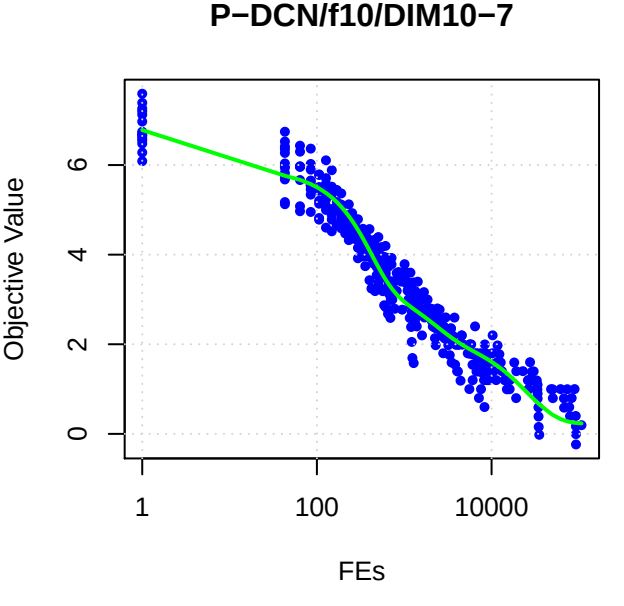
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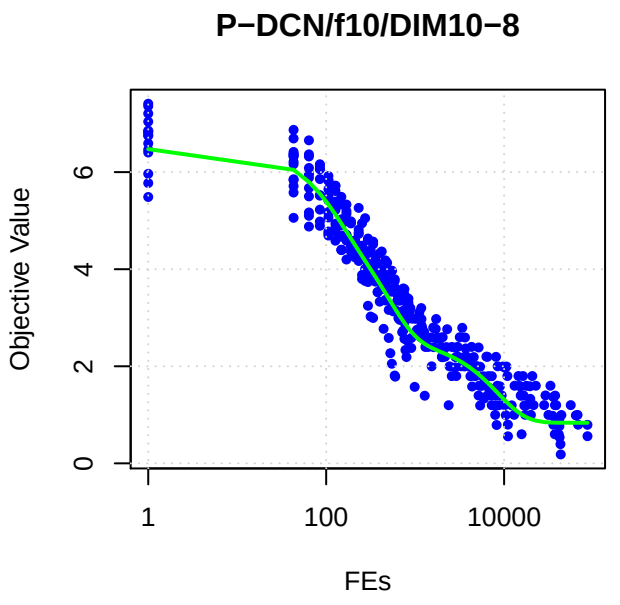
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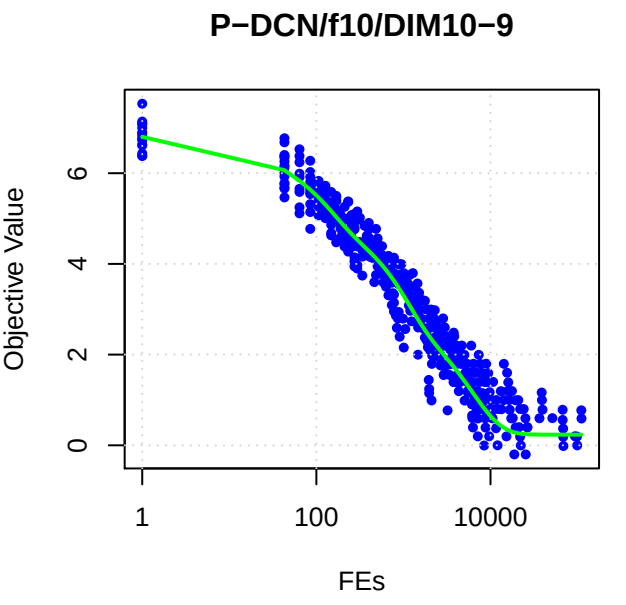
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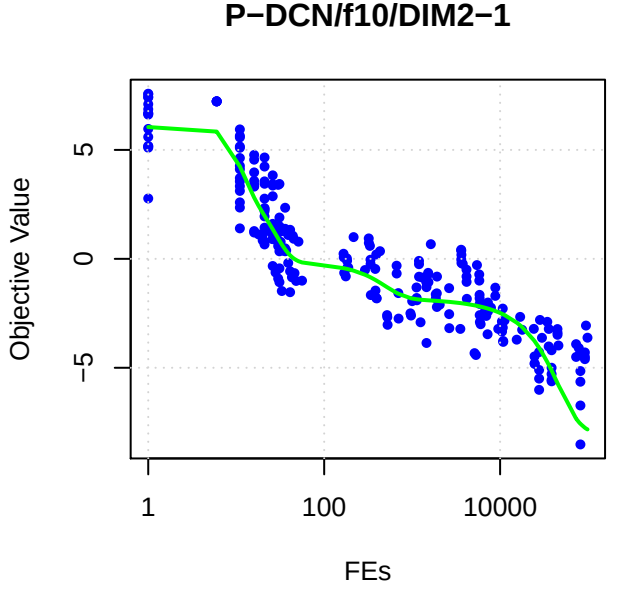
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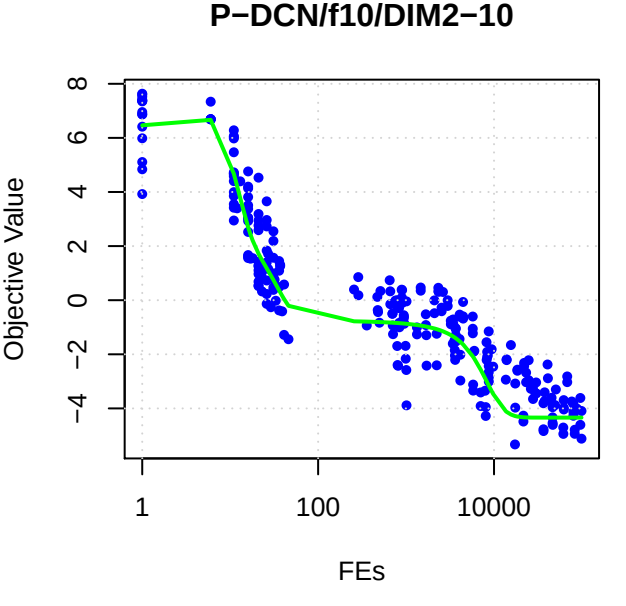
FEs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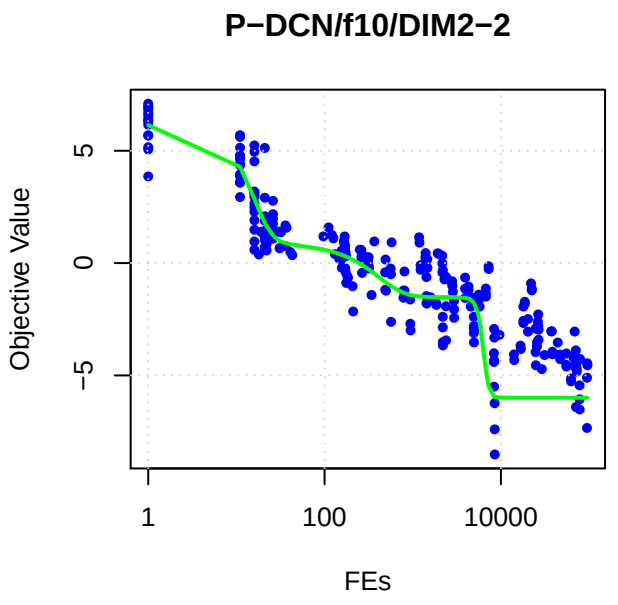
FEs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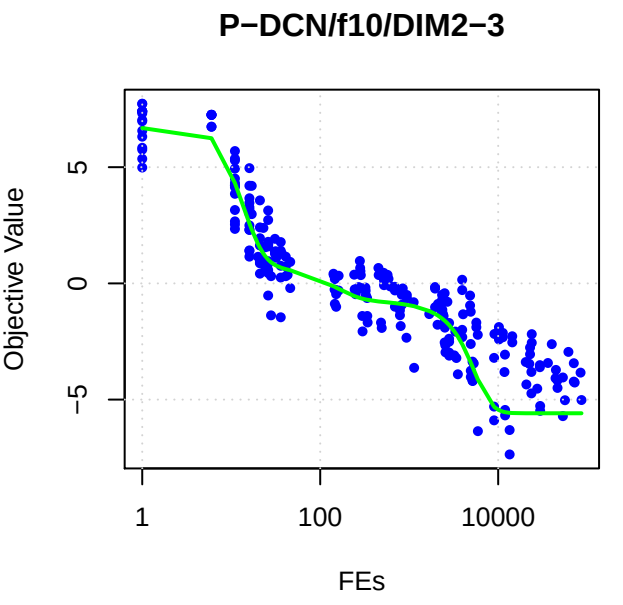
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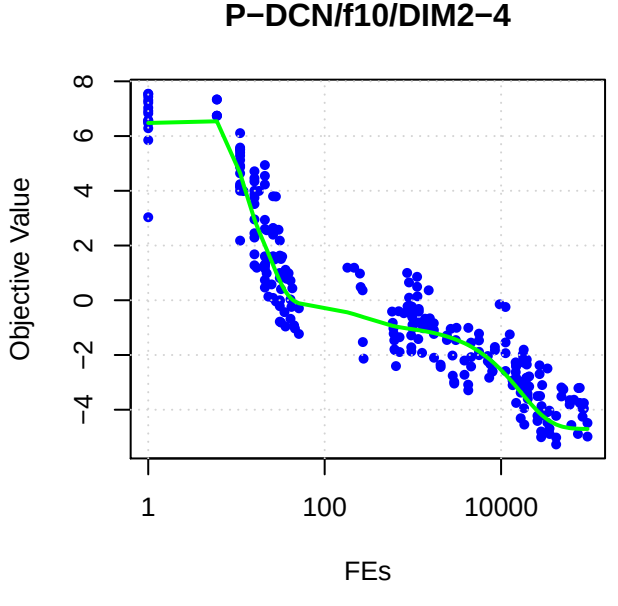
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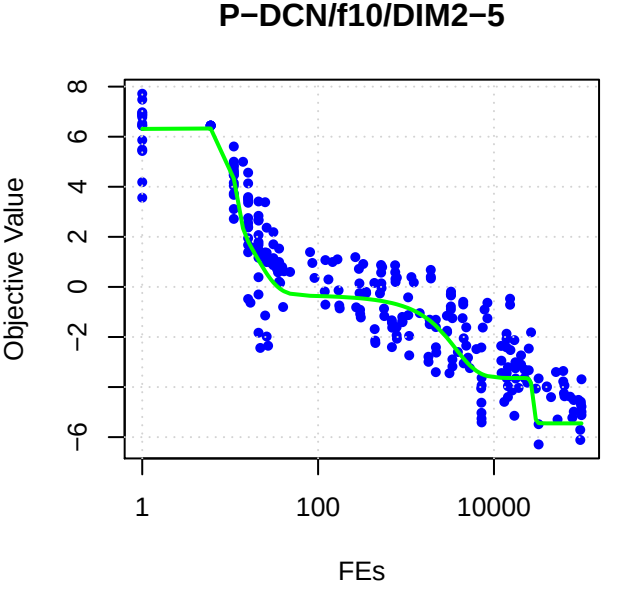
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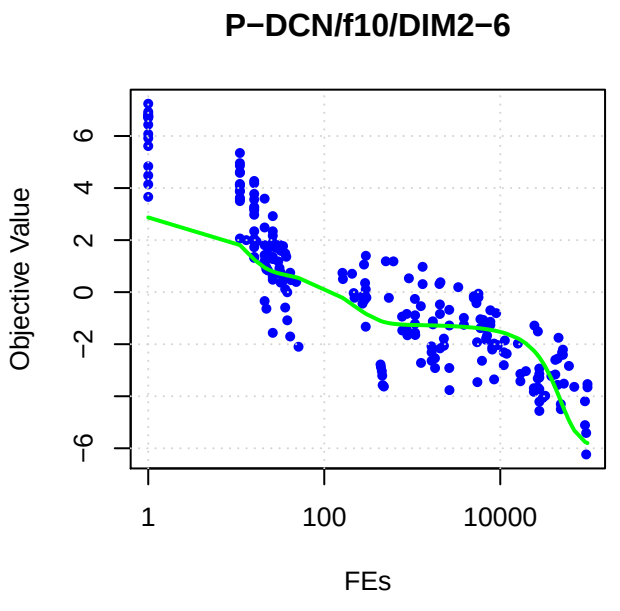
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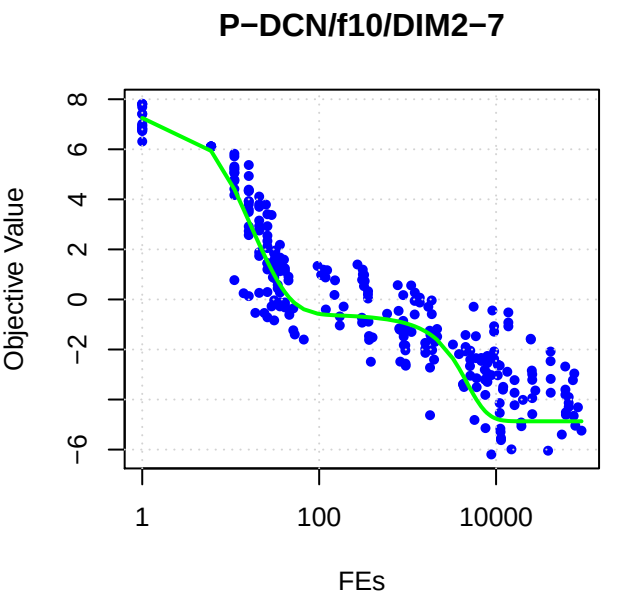
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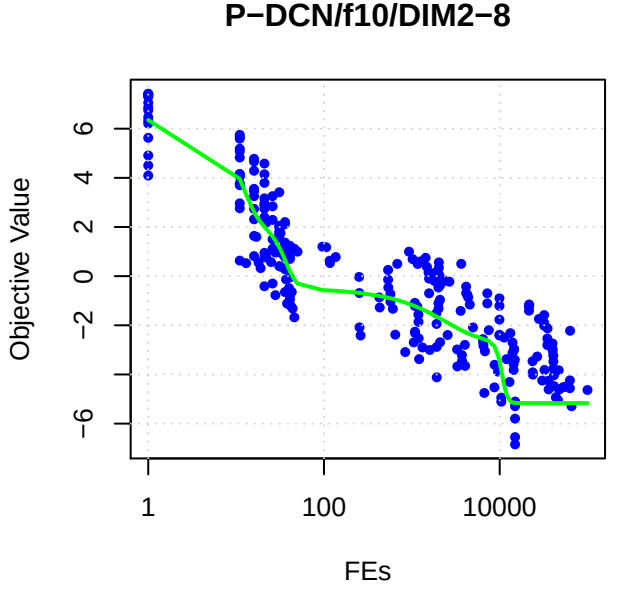
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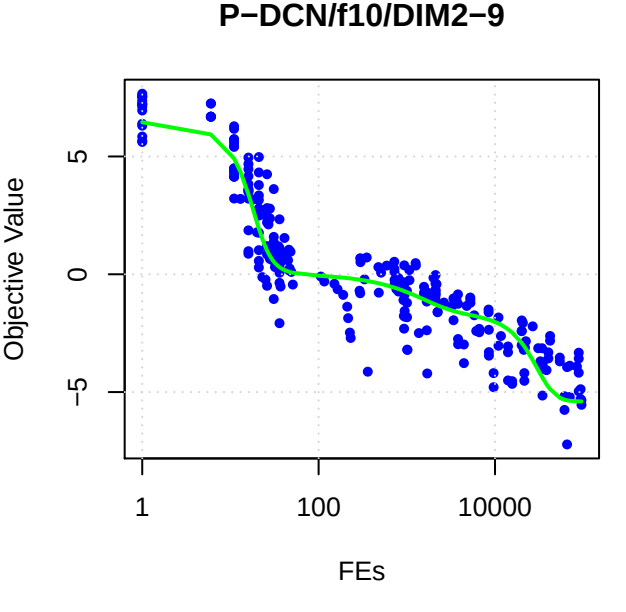
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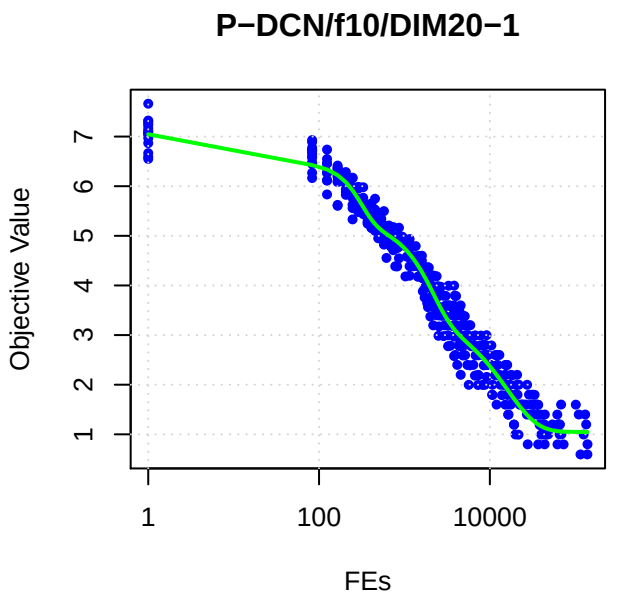
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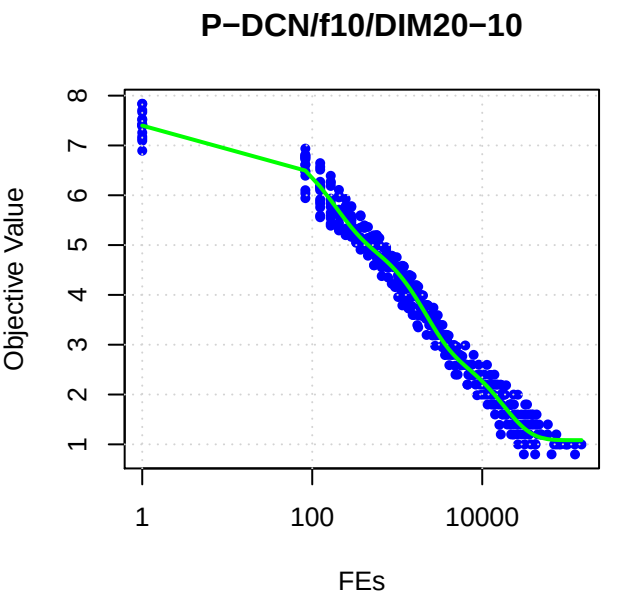
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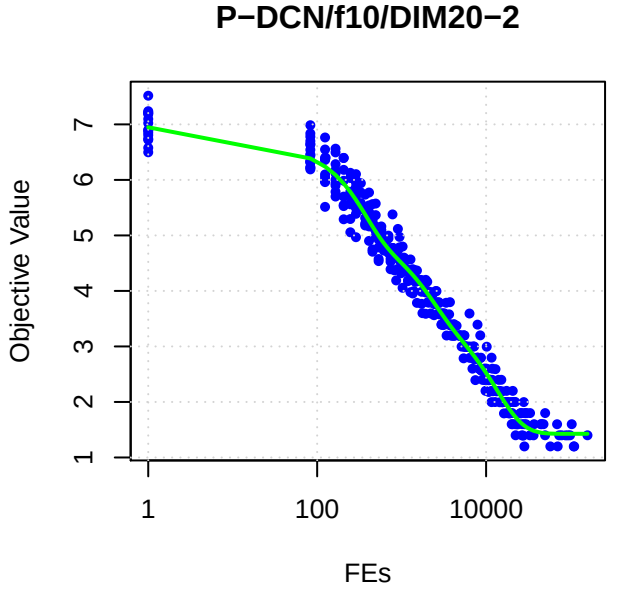
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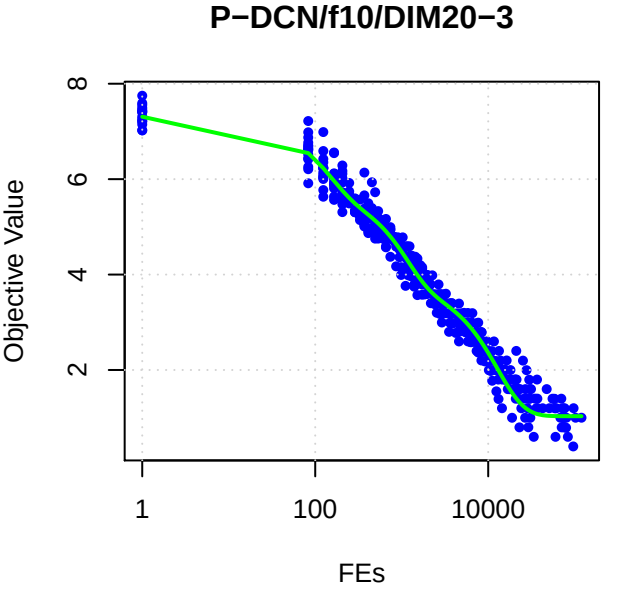
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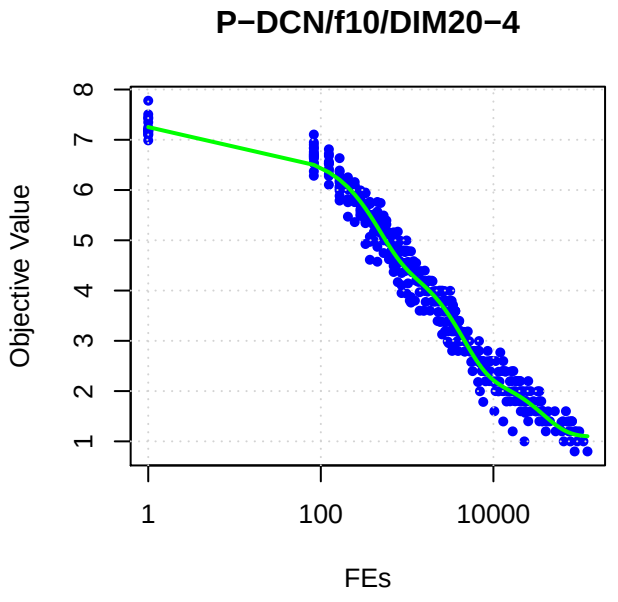
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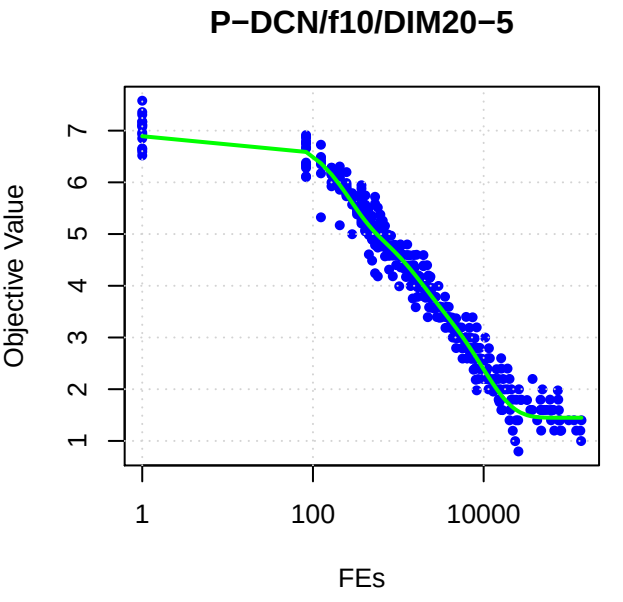
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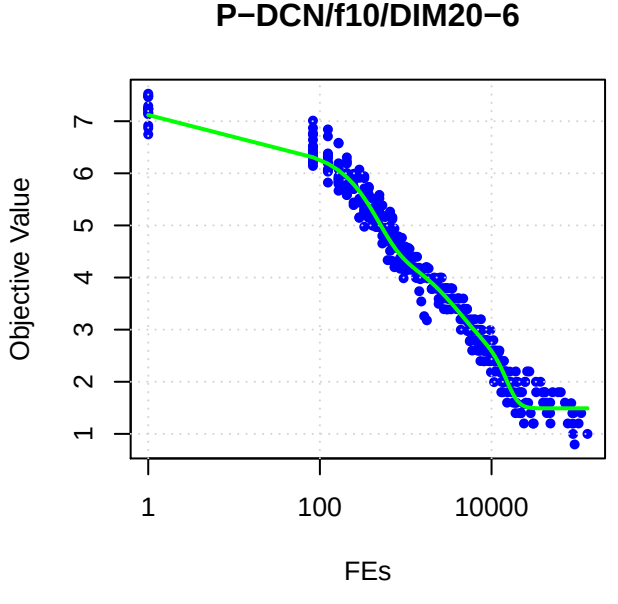
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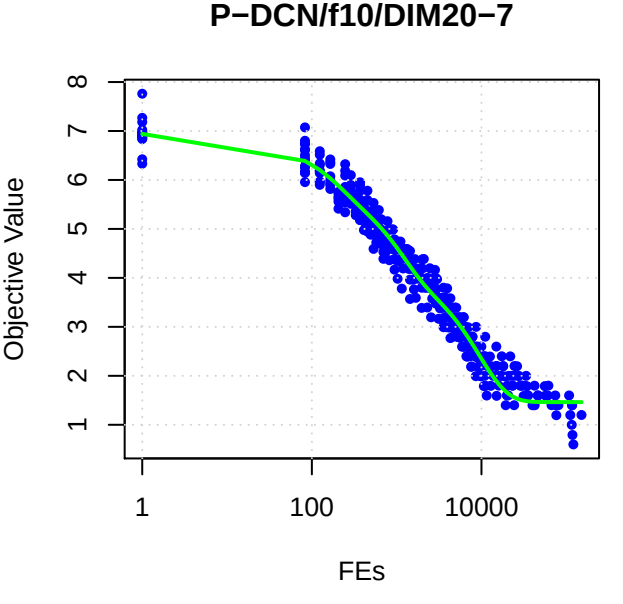
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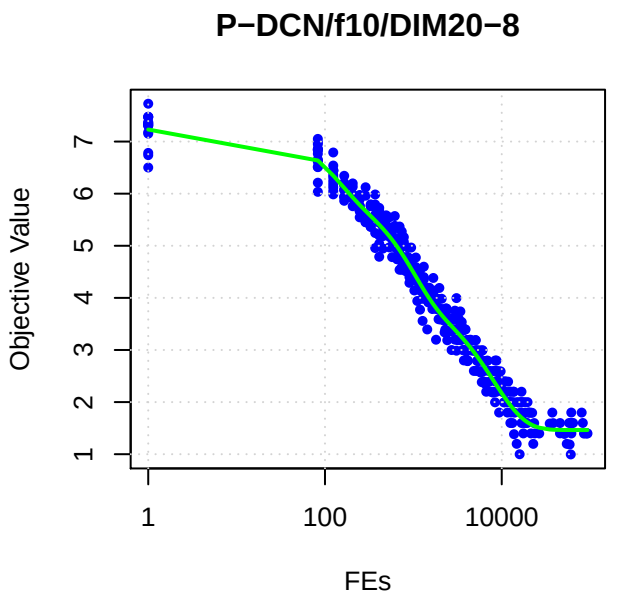
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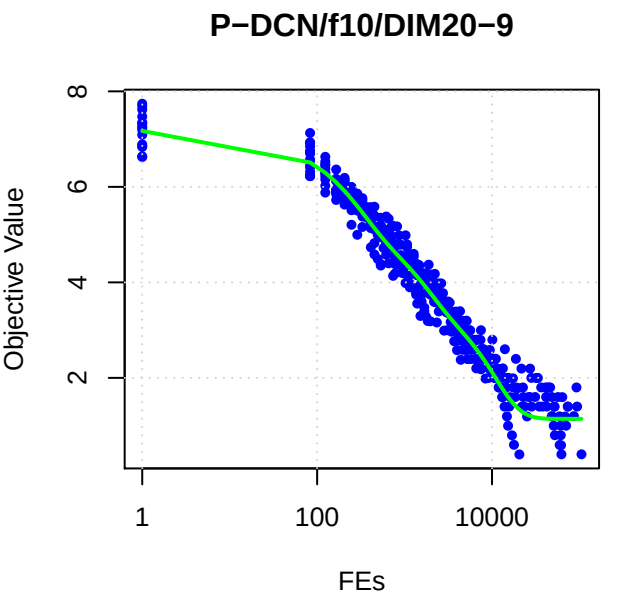
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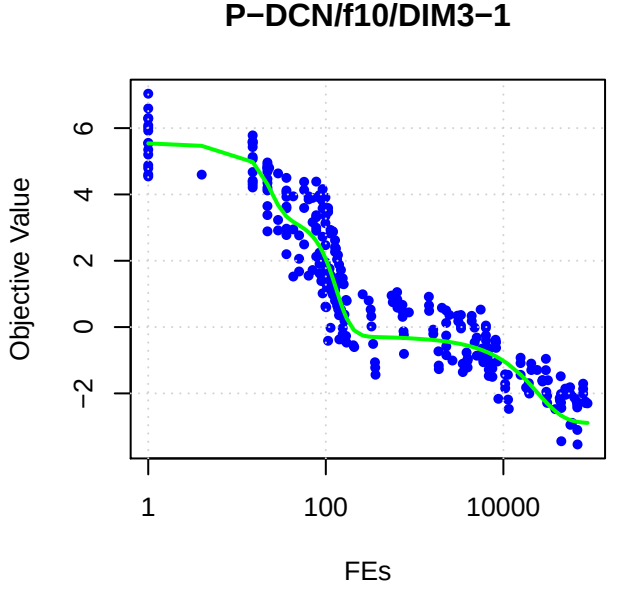
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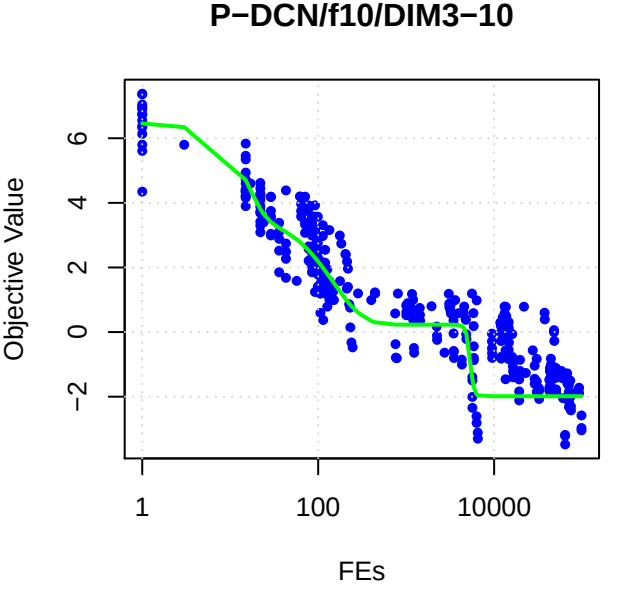
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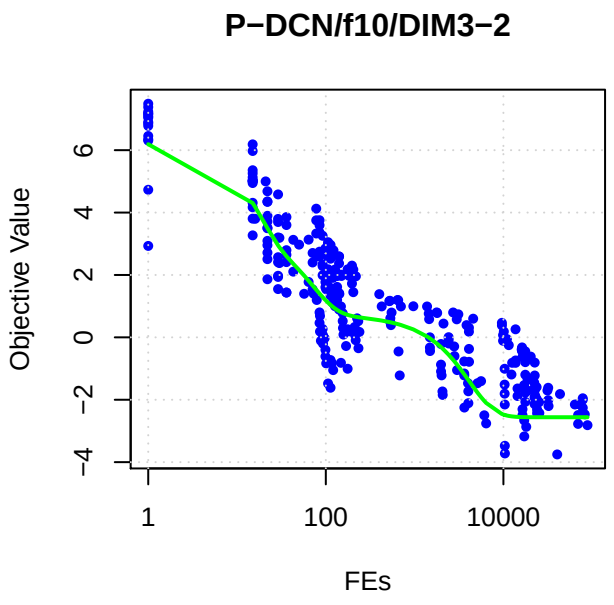
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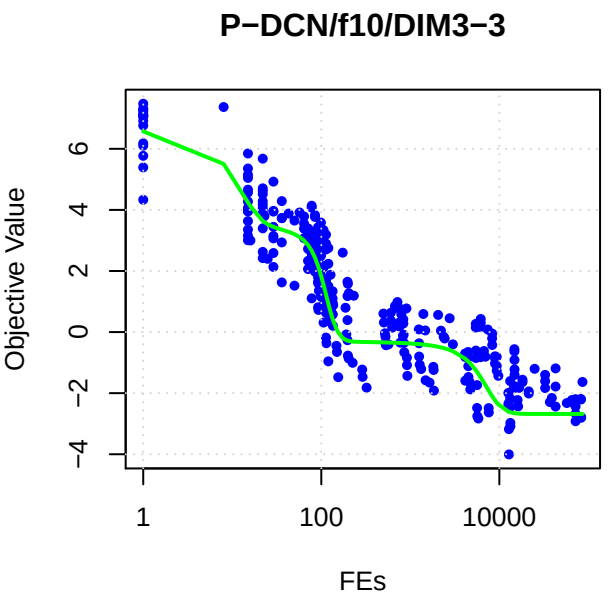
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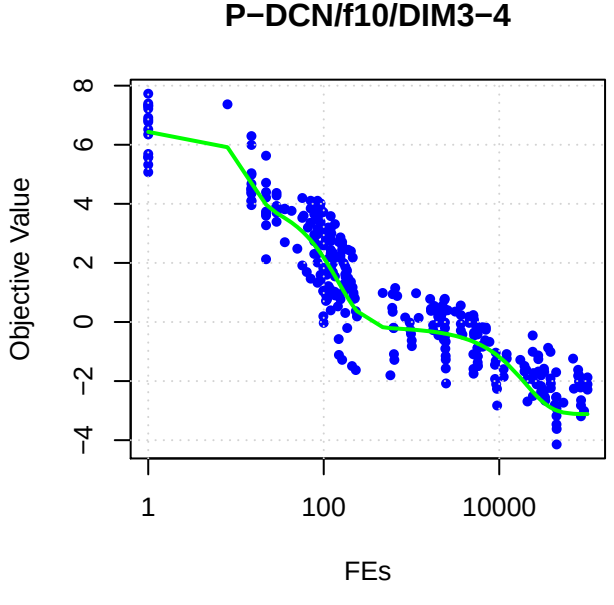
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Objective Value
FEs
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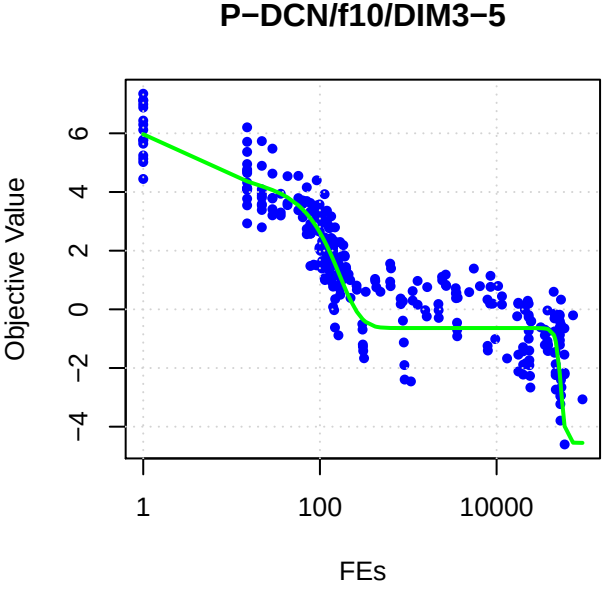
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Objective Value
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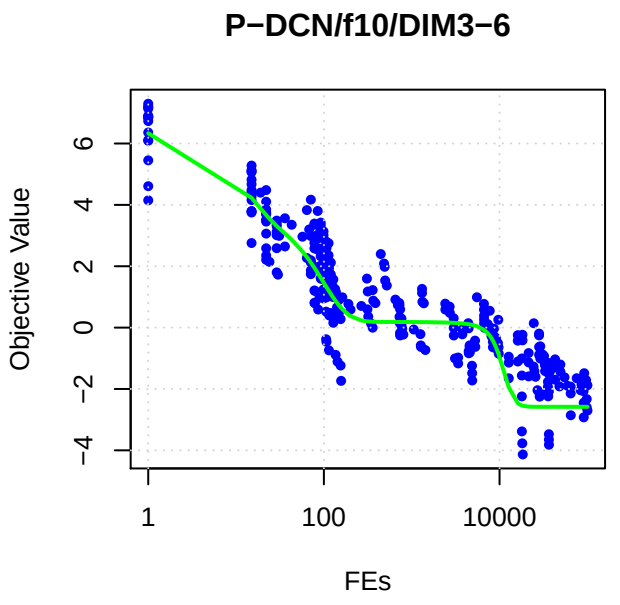
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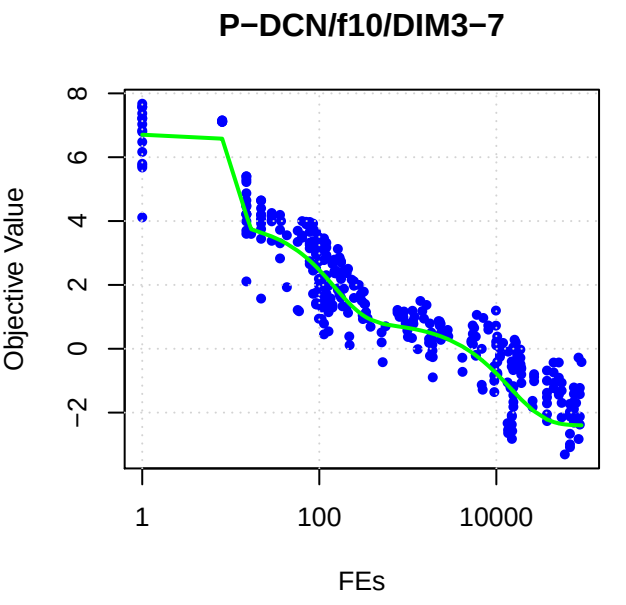
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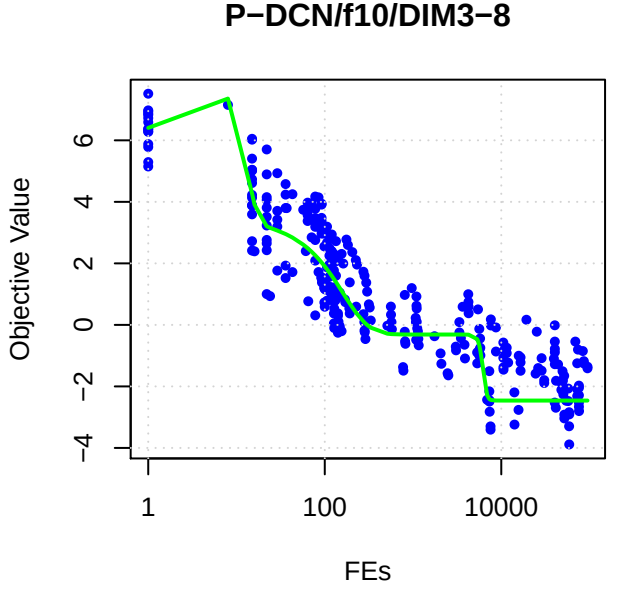
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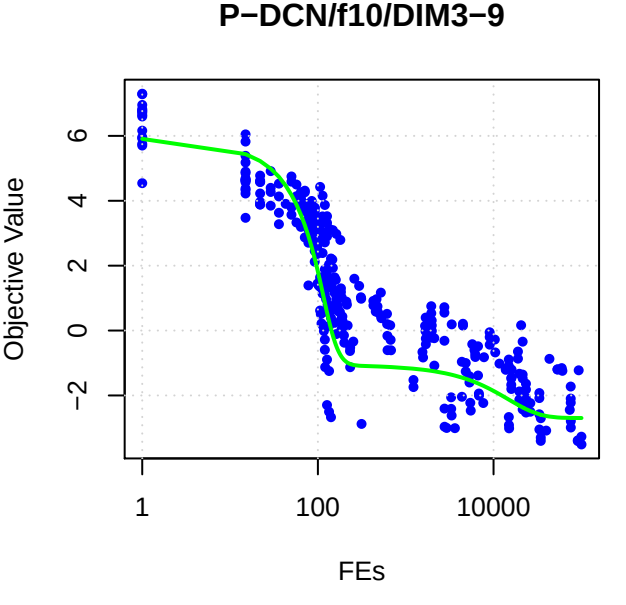
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FEs
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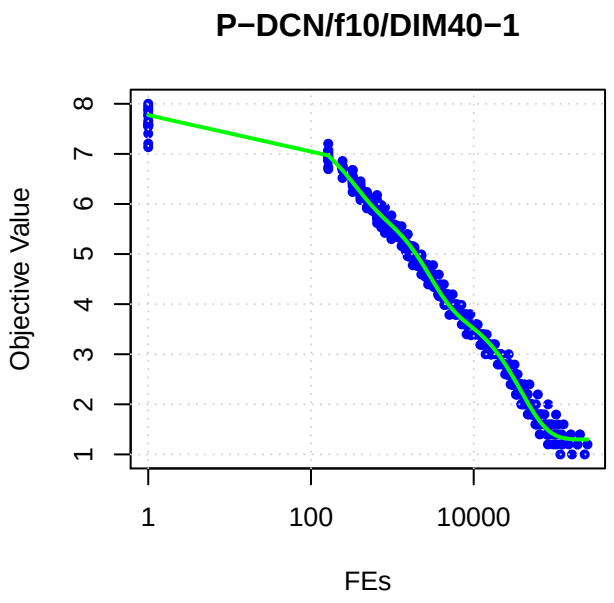
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Objective Value
FEs
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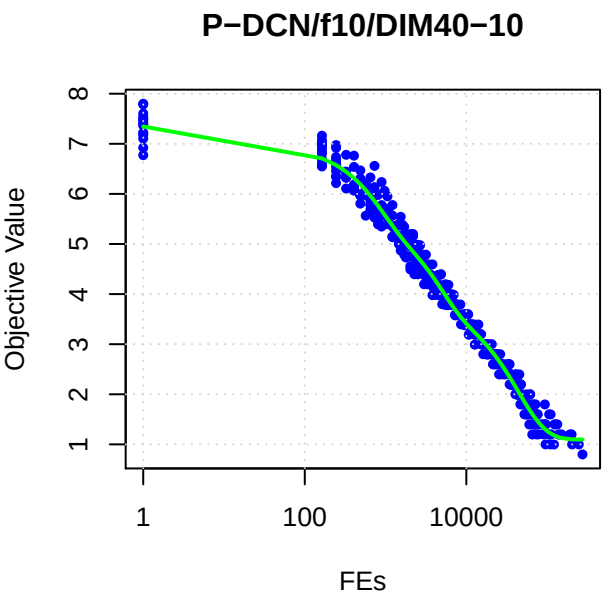
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Objective Value
FEs
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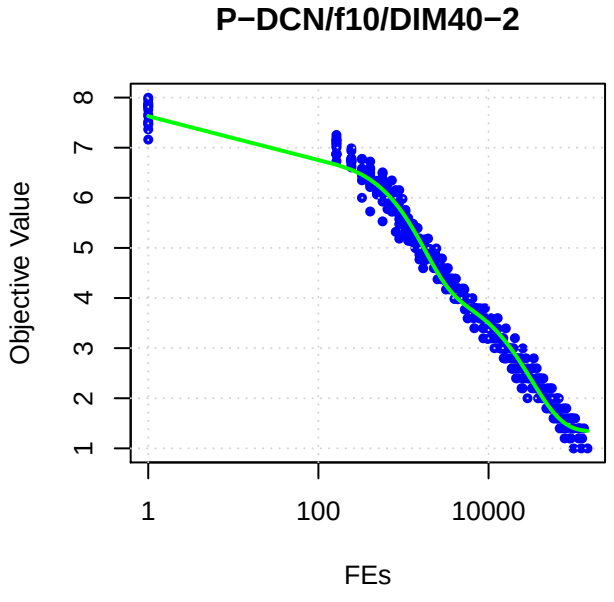
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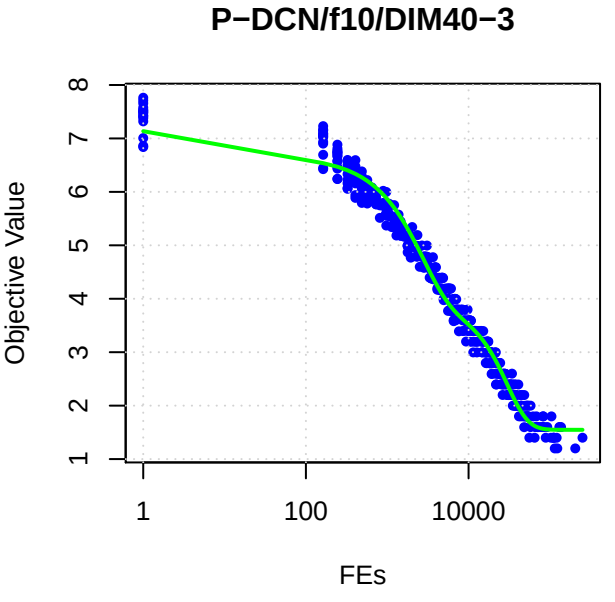
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Objective Value
FEs
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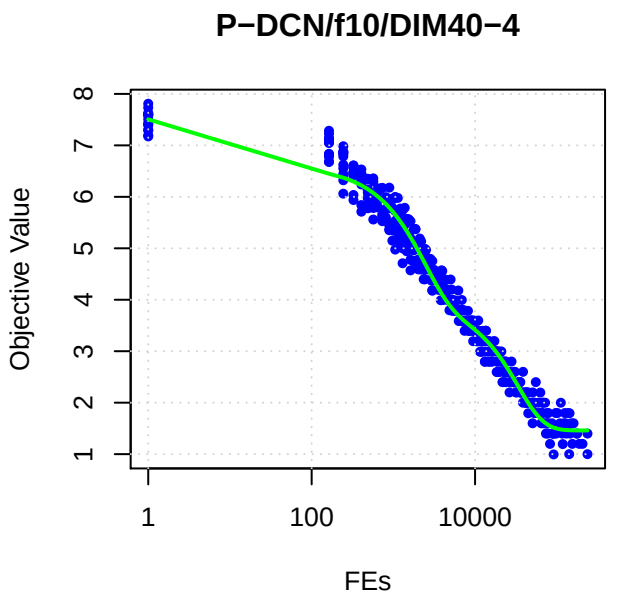
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Objective Value
FEs
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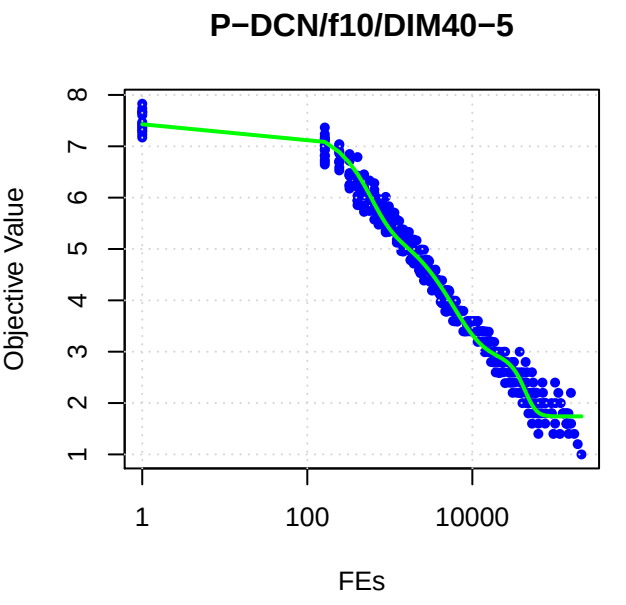
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Objective Value
FEs
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10000
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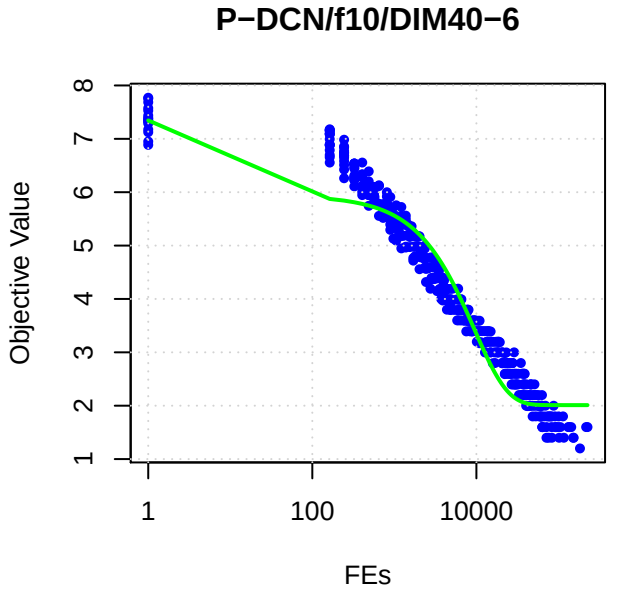
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Objective Value
FEs
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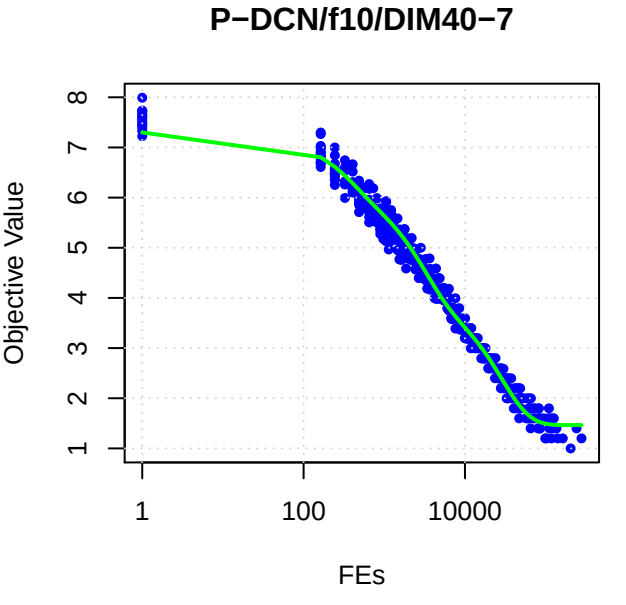
P−DCN/f10/DIM40−7
Objective Value
FEs
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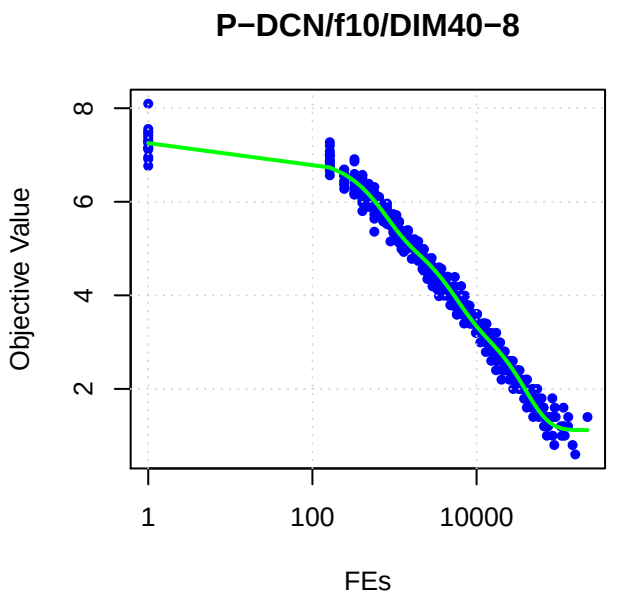
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Objective Value
FEs
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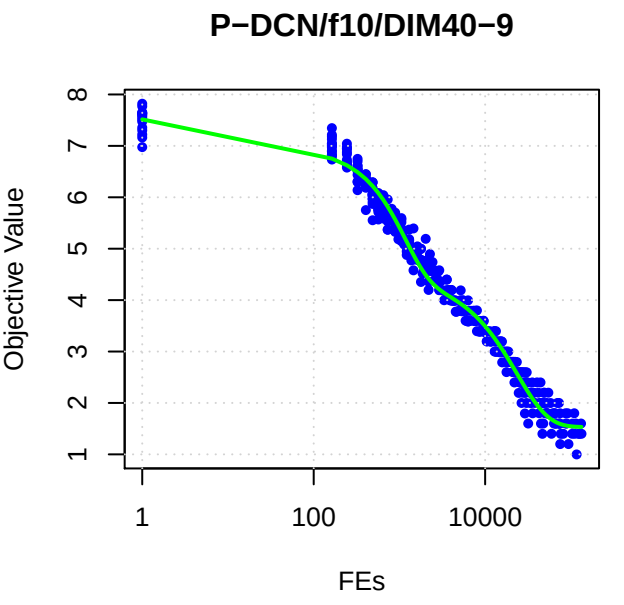
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Objective Value
FEs
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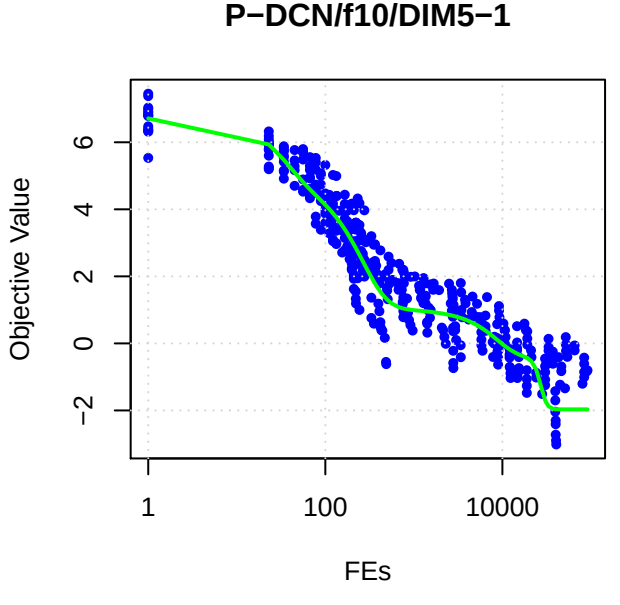
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Objective Value
FEs
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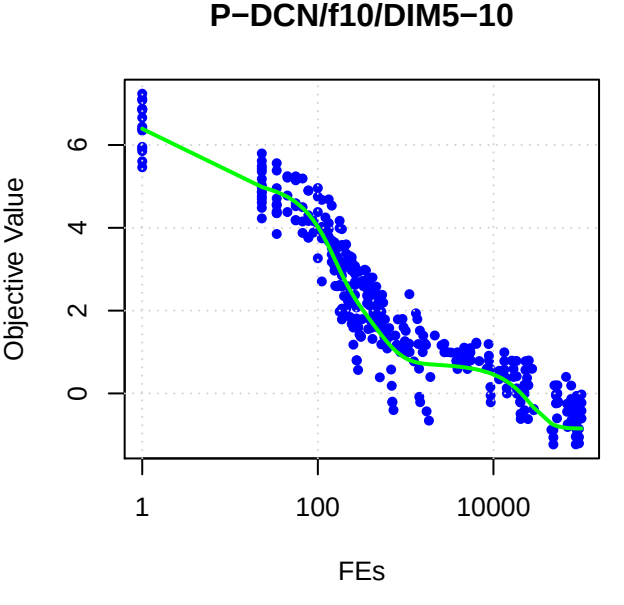
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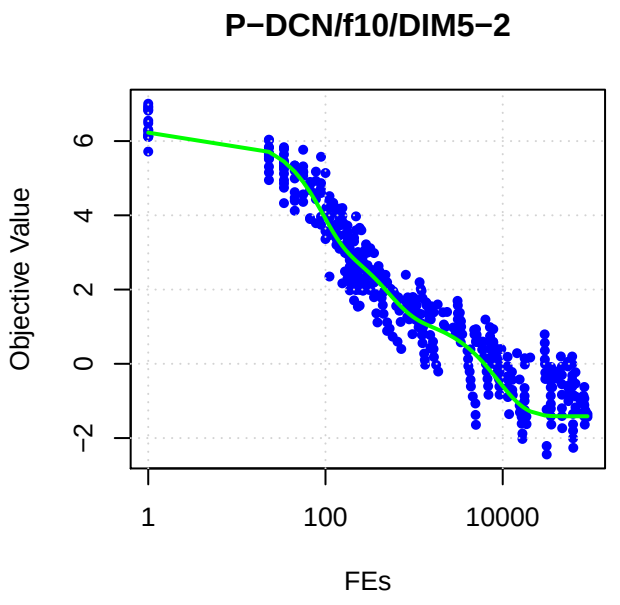
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Objective Value
FEs
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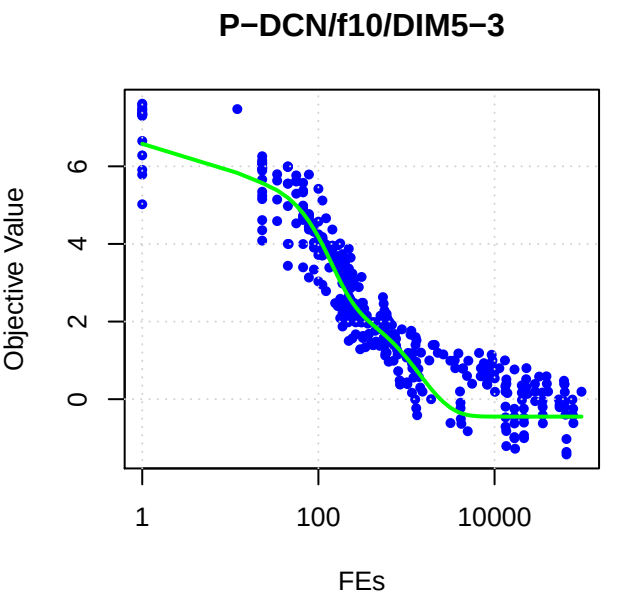
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Objective Value
FEs
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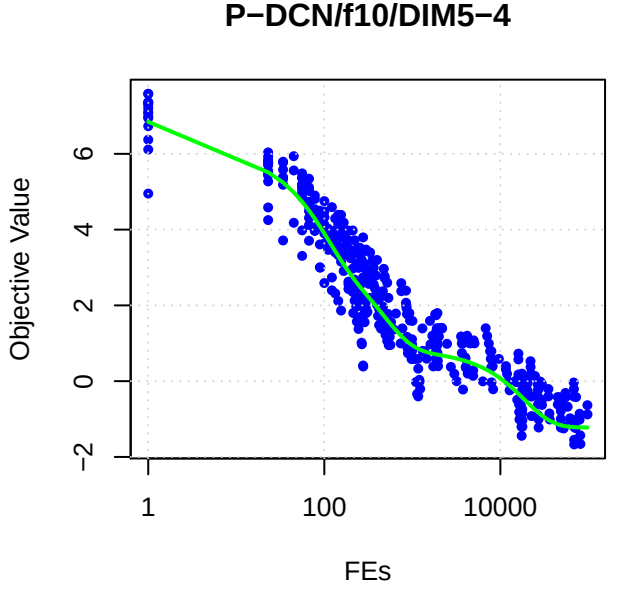
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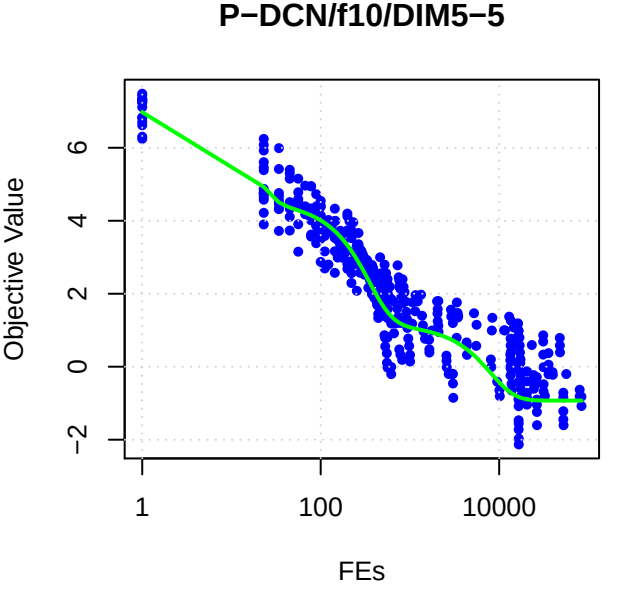
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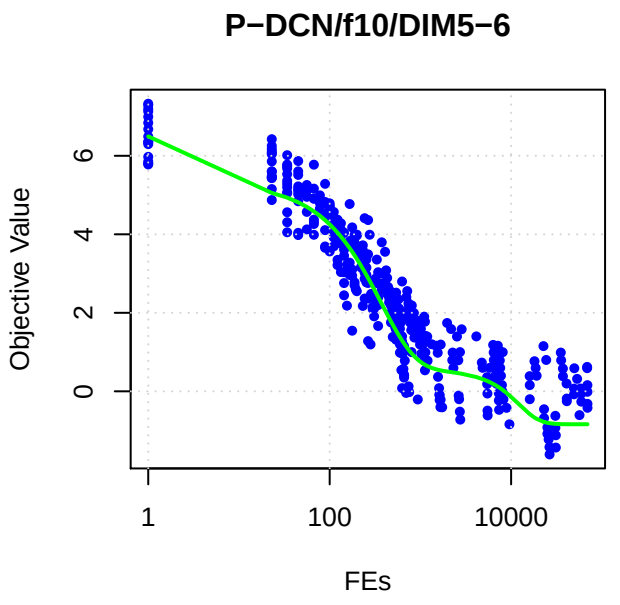
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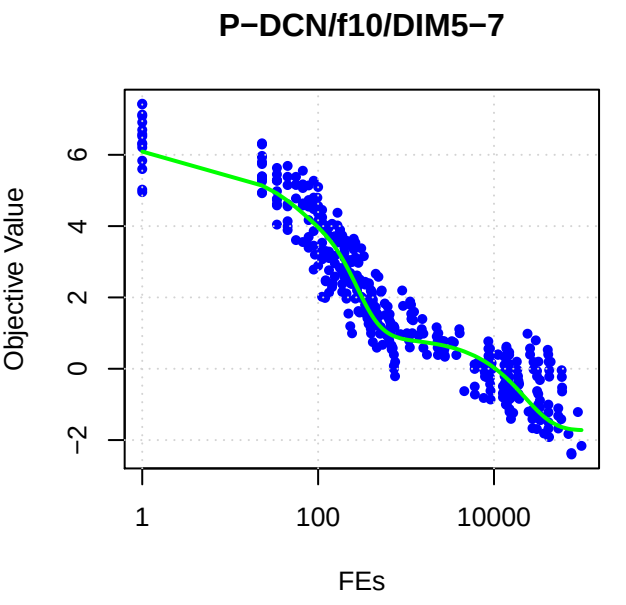
FEs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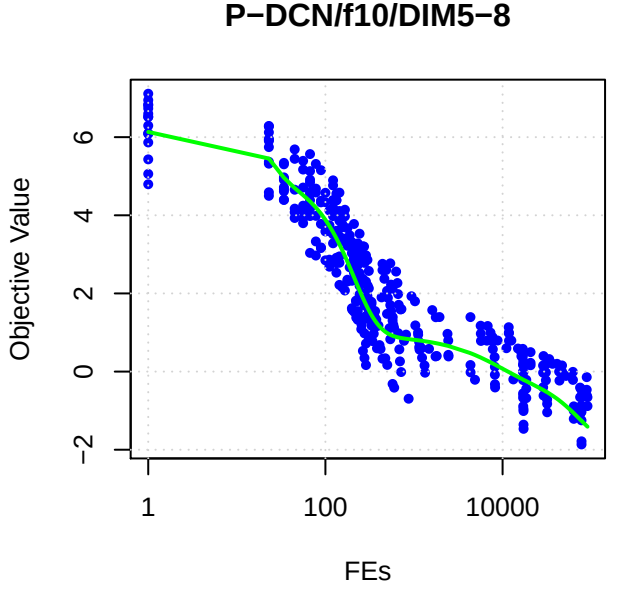
FEs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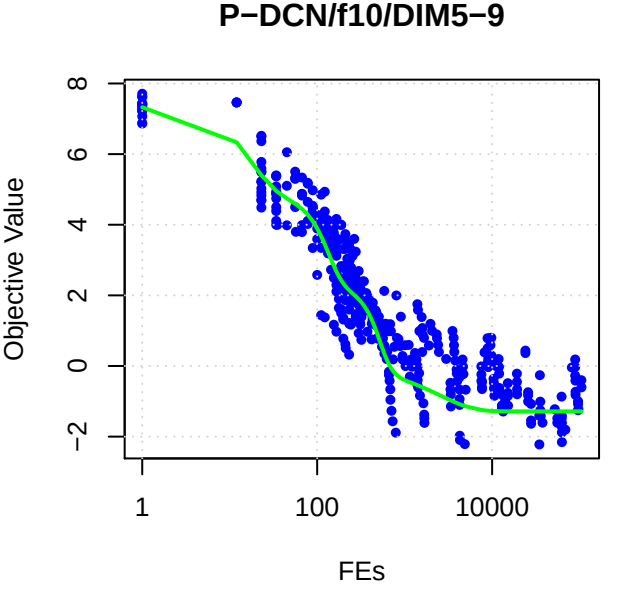
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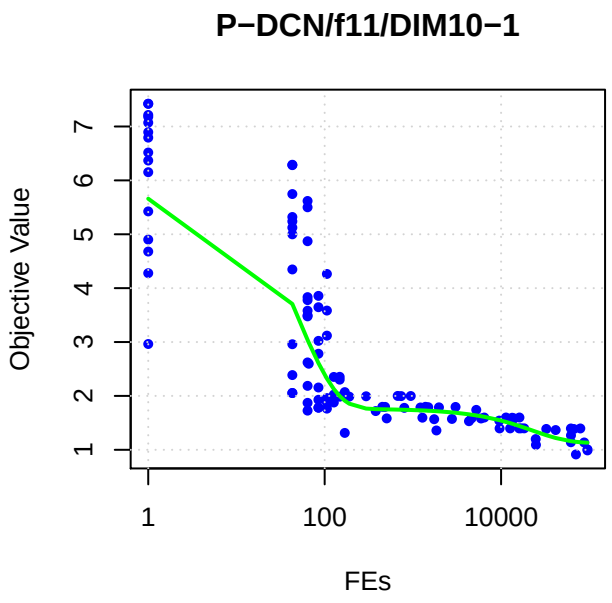
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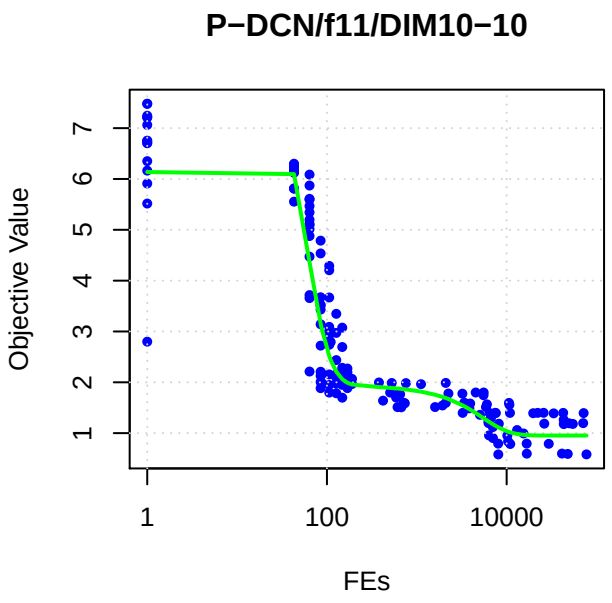
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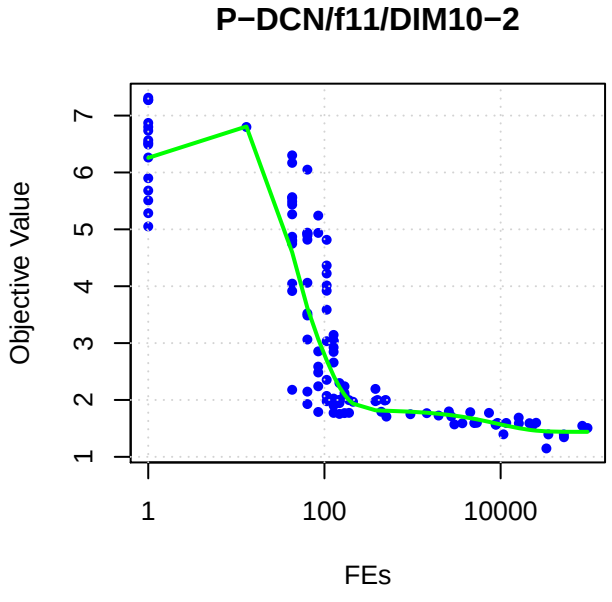
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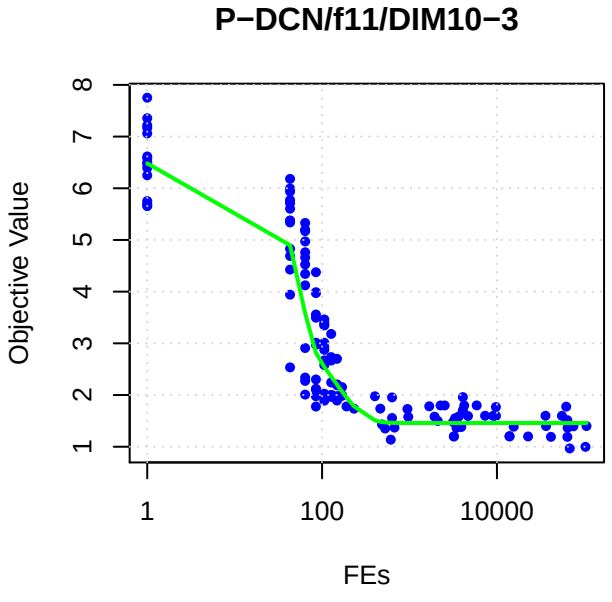
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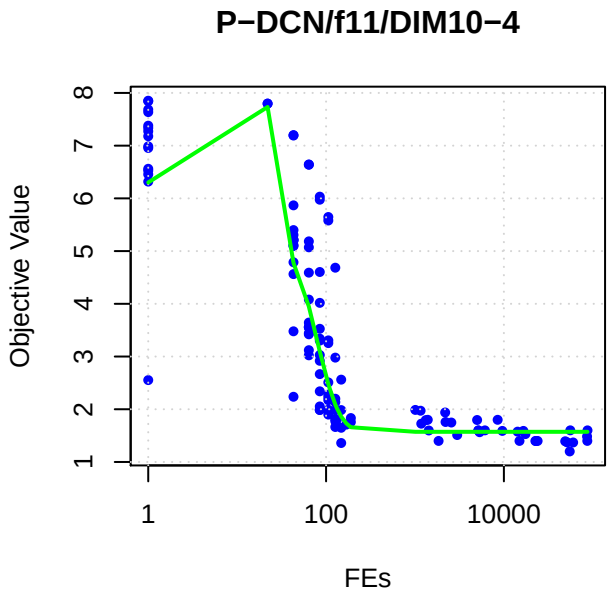
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FEs
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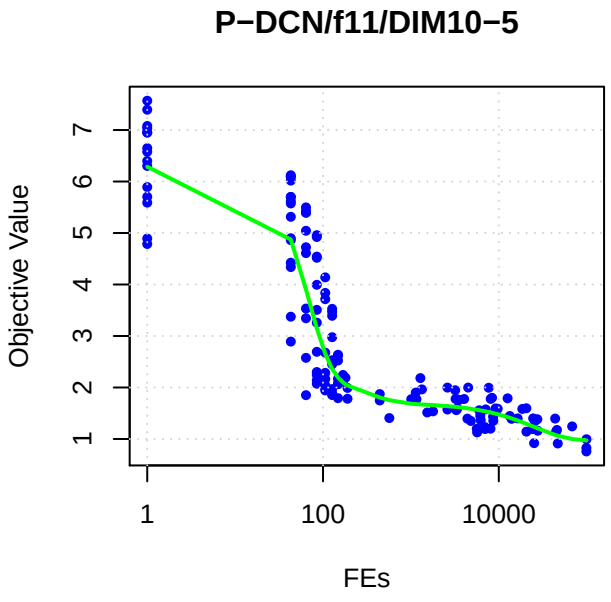
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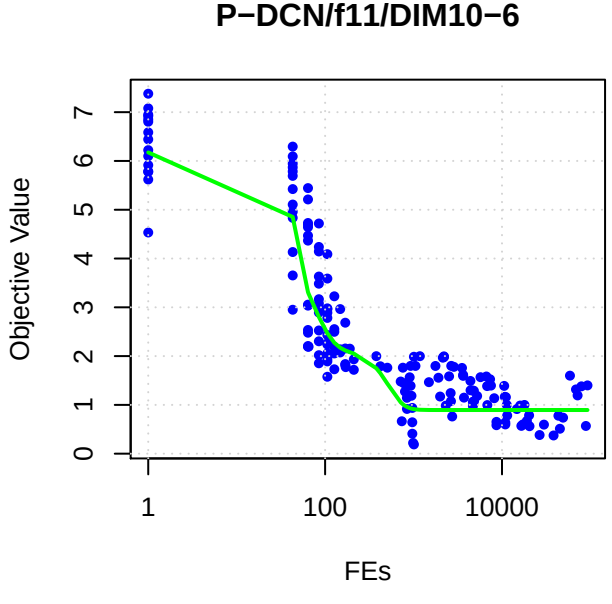
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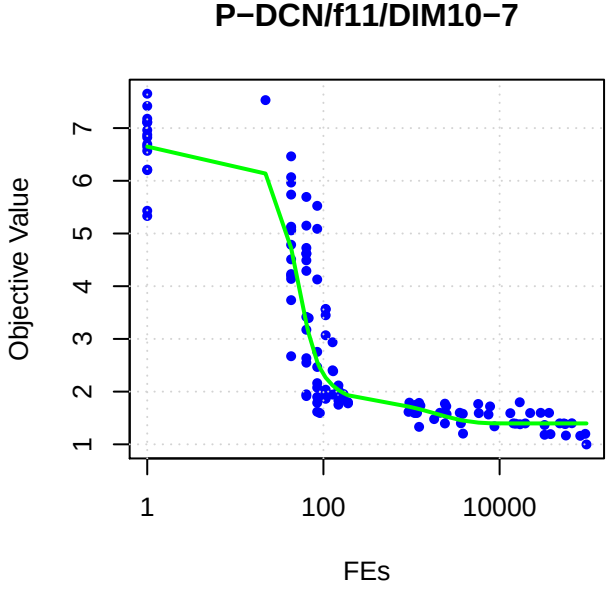
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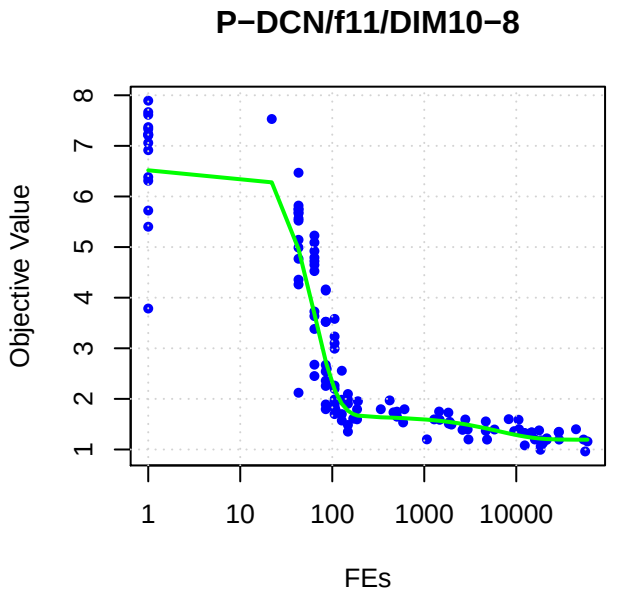
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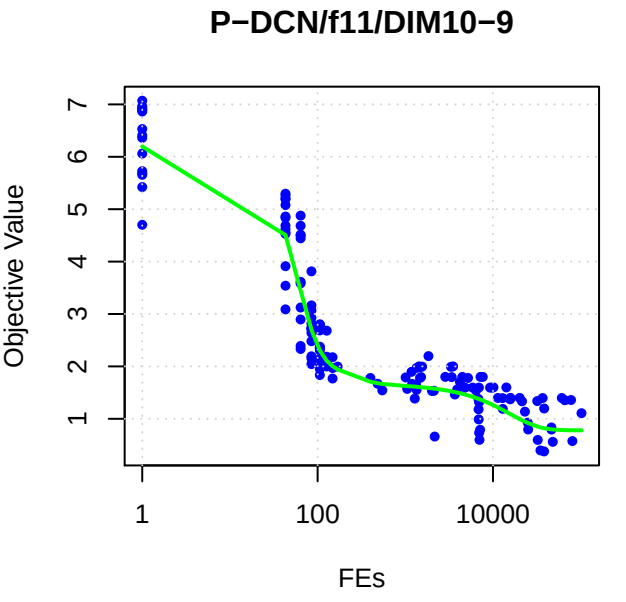
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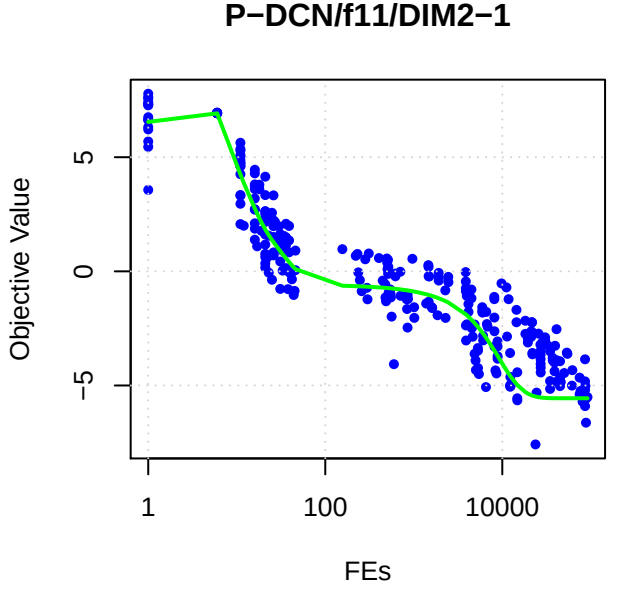
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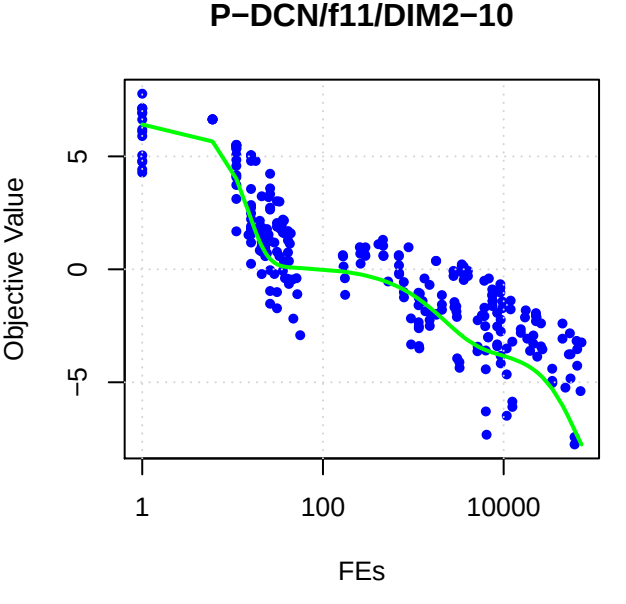
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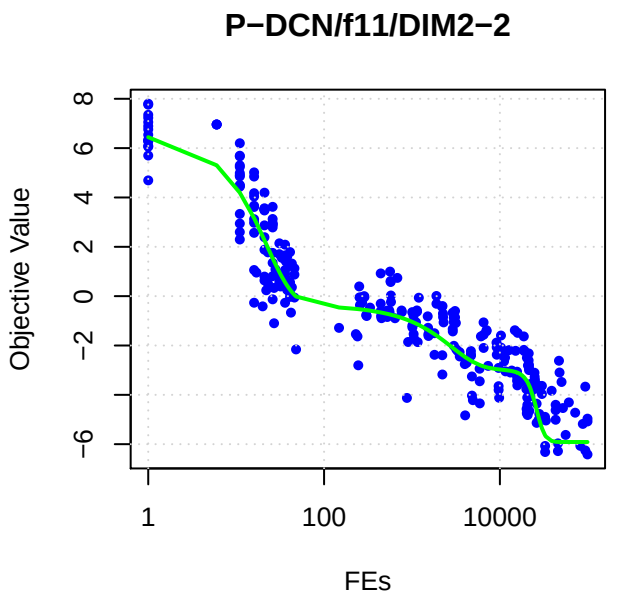
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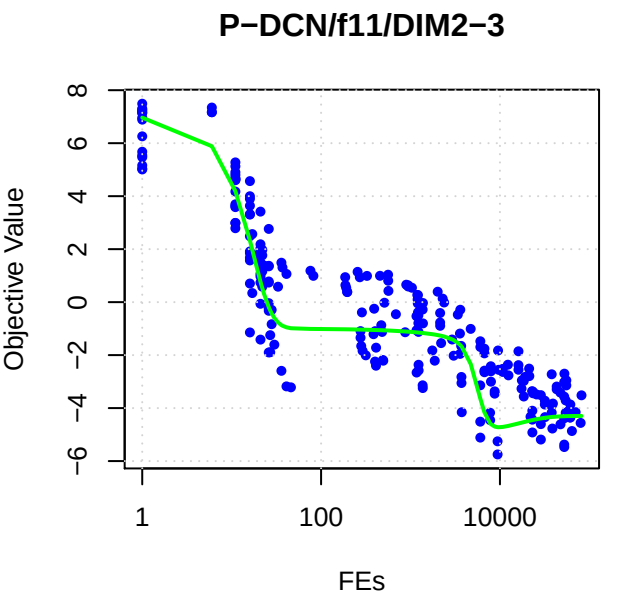
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FEs
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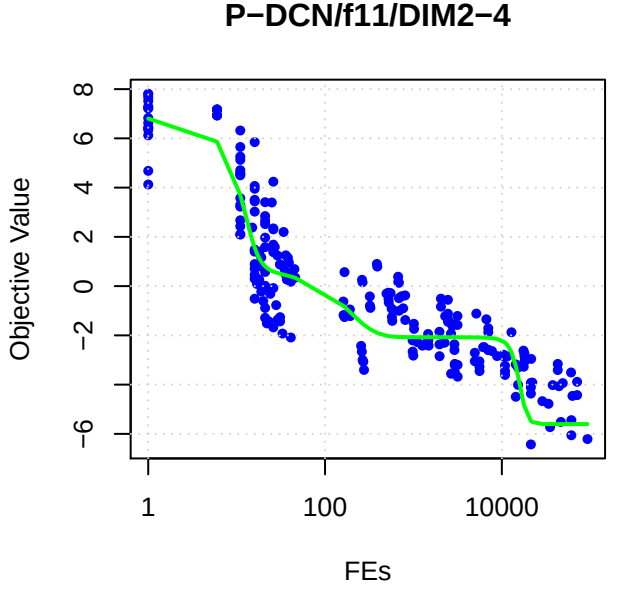
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Objective Value
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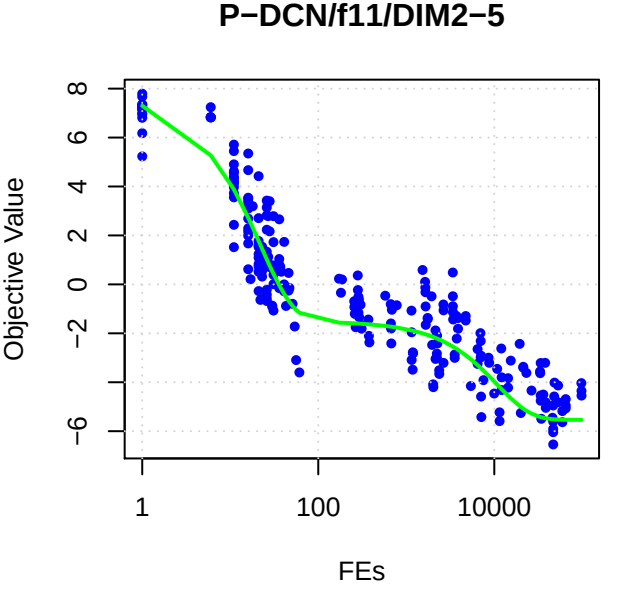
P−DCN/f11/DIM2−5
Objective Value
FEs
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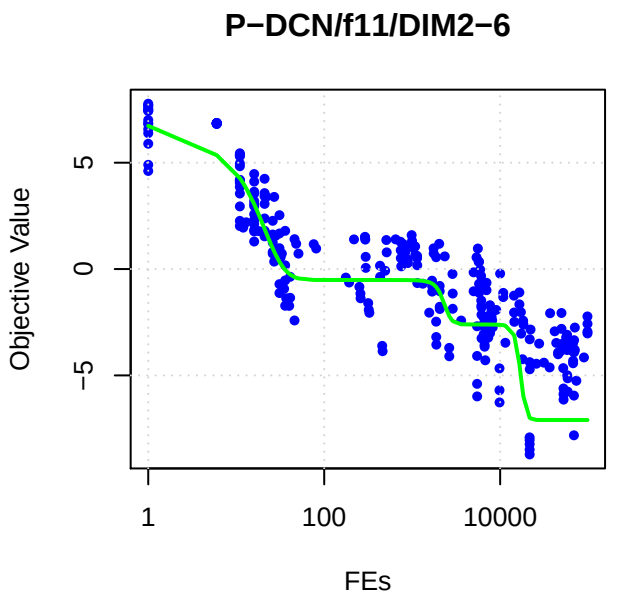
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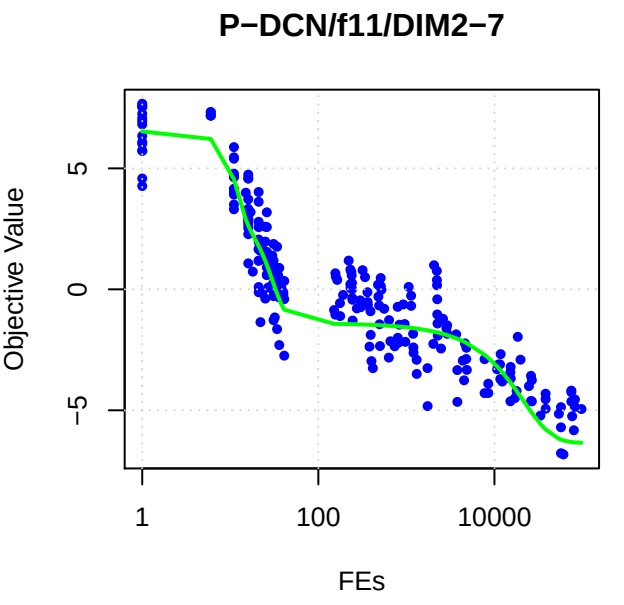
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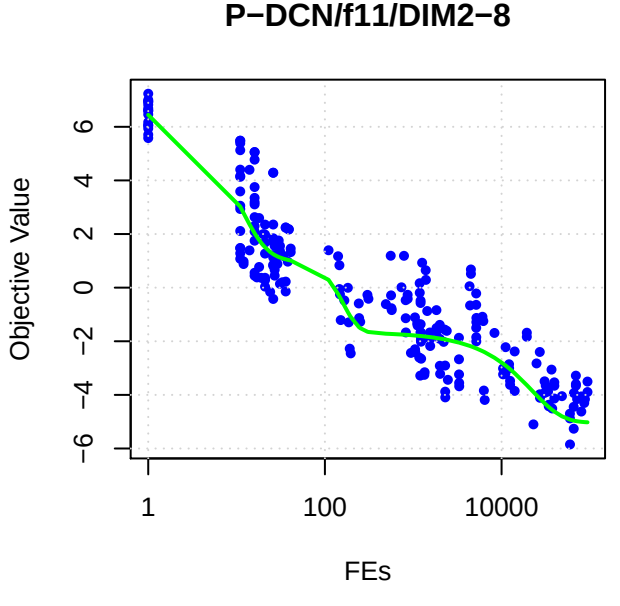
P−DCN/f11/DIM2−8
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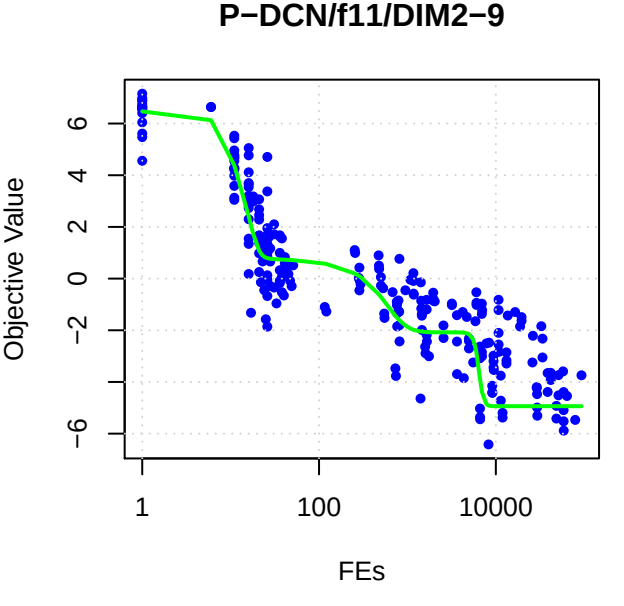
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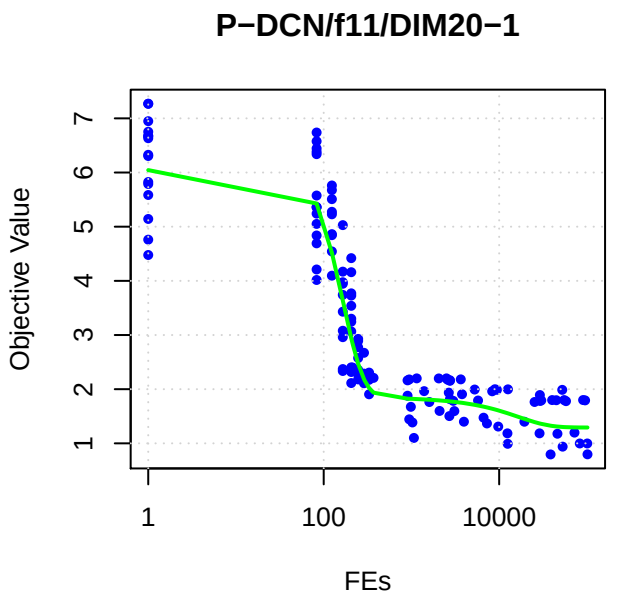
FEs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FEs
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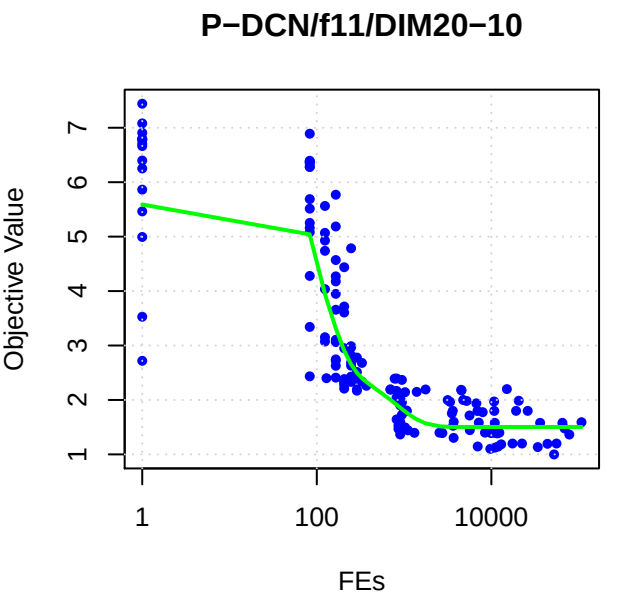
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FEs
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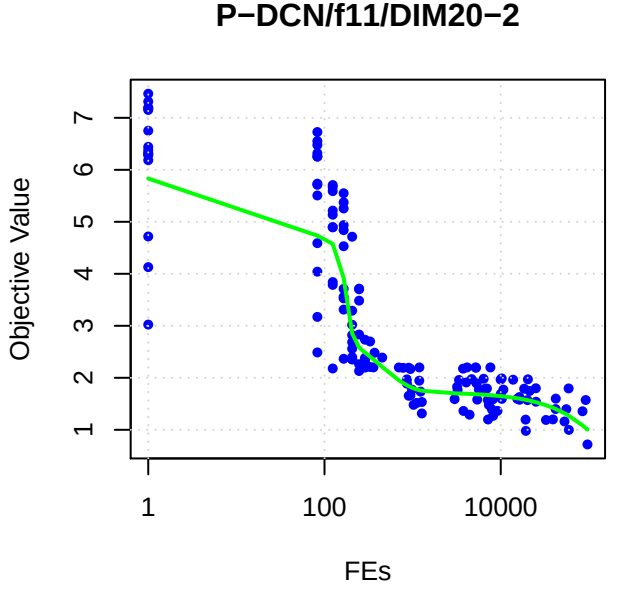
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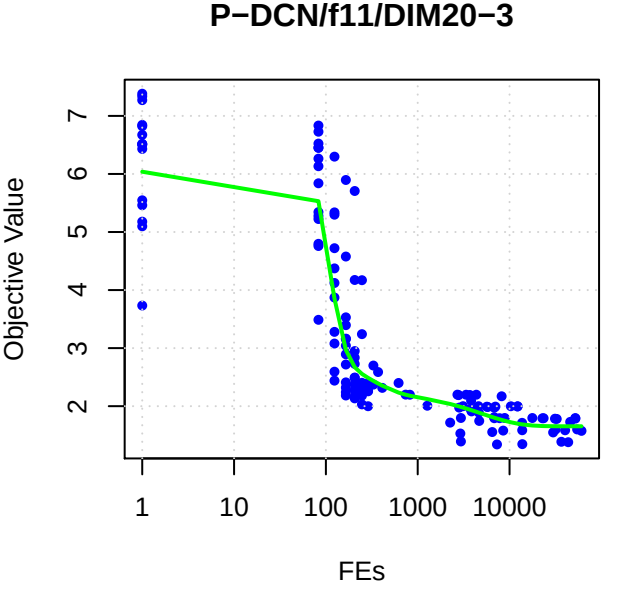
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Objective Value
FEs
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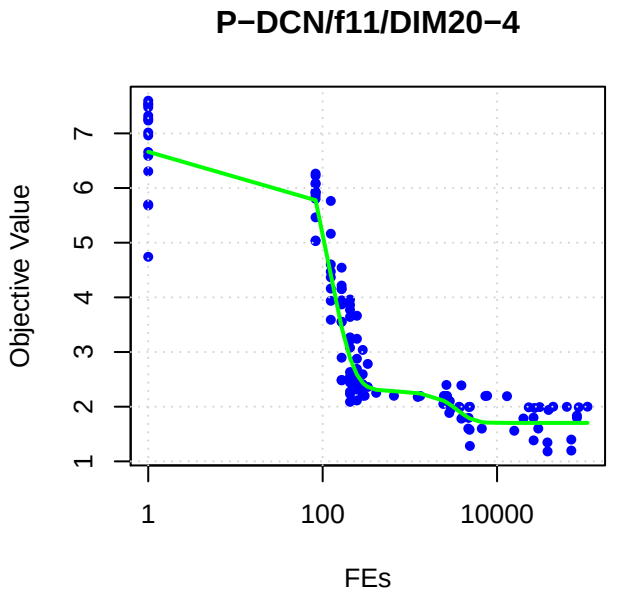
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FEs
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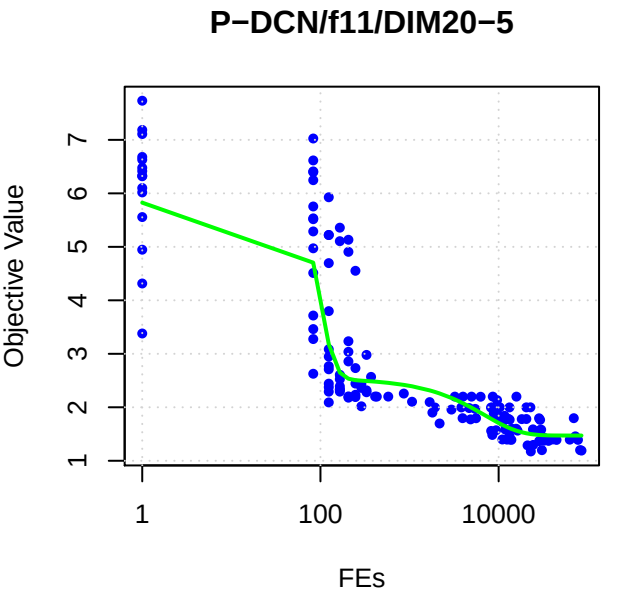
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FEs
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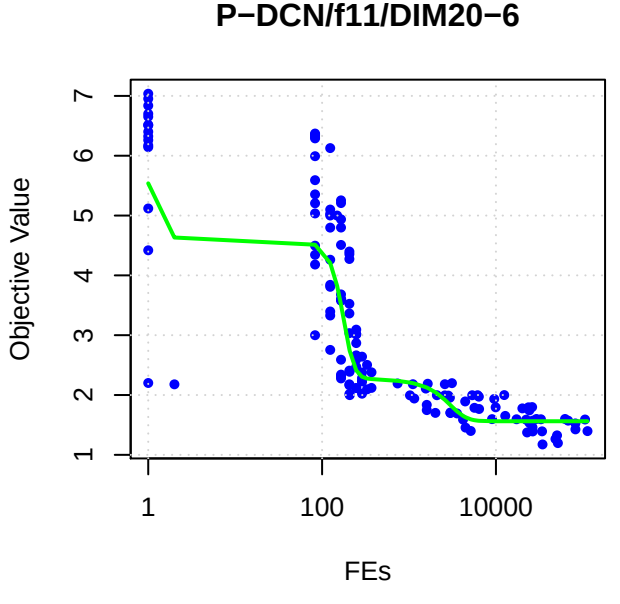
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Objective Value
FEs
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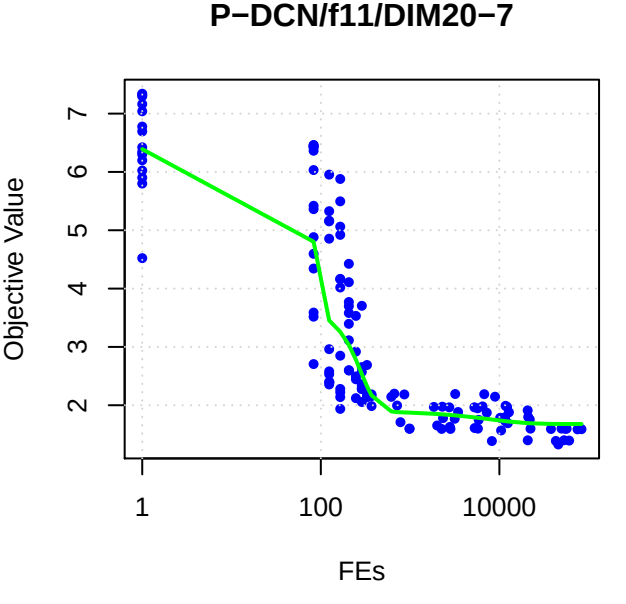
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Objective Value
FEs
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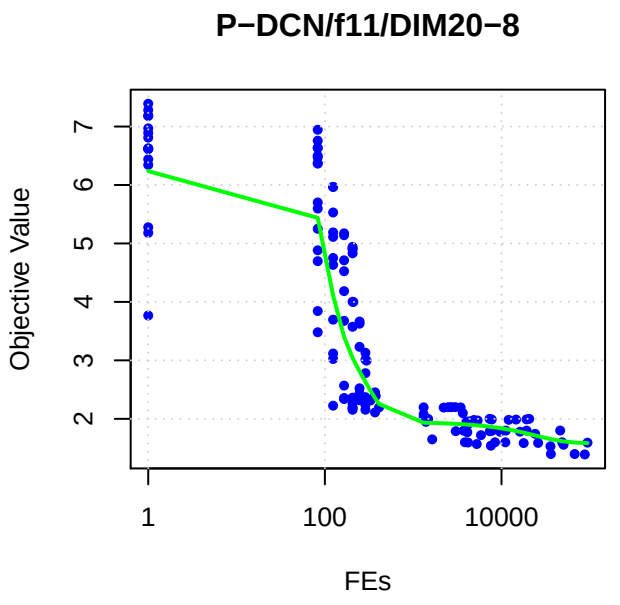
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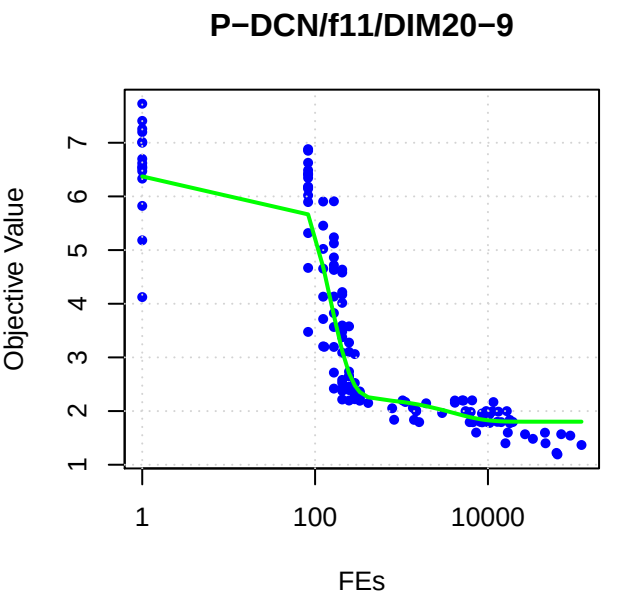
P−DCN/f11/DIM20−9
Objective Value
FEs
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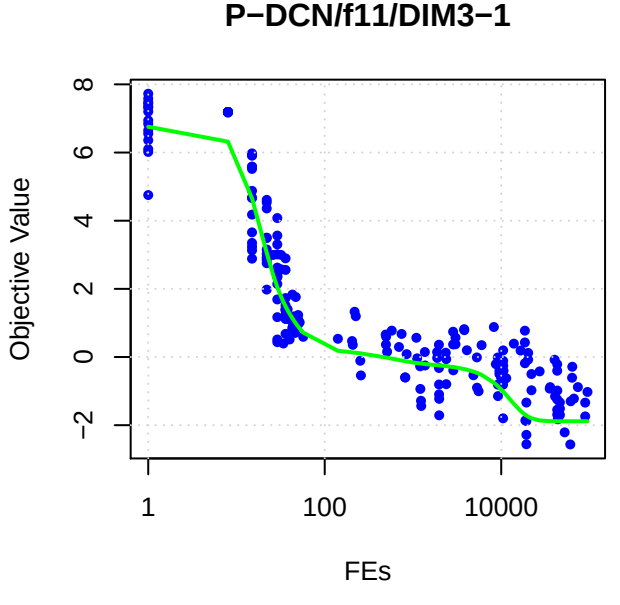
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Objective Value
FEs
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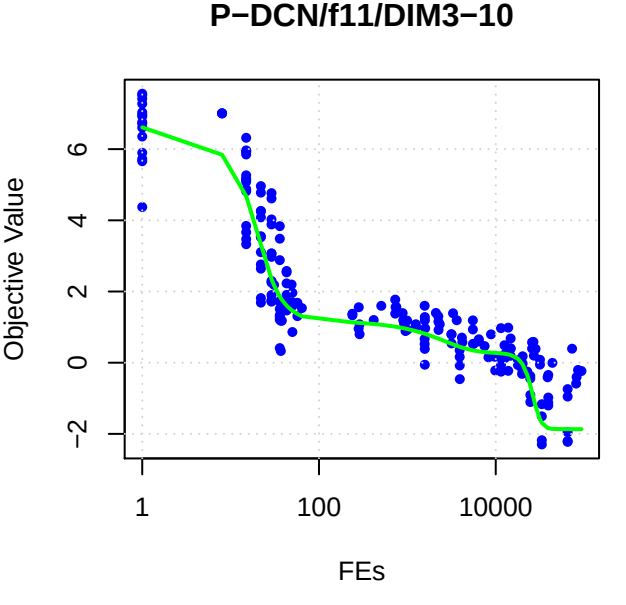
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FEs
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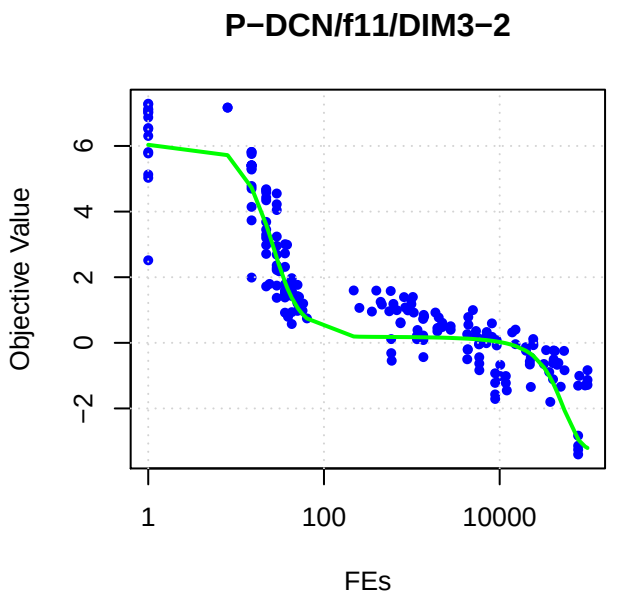
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Objective Value
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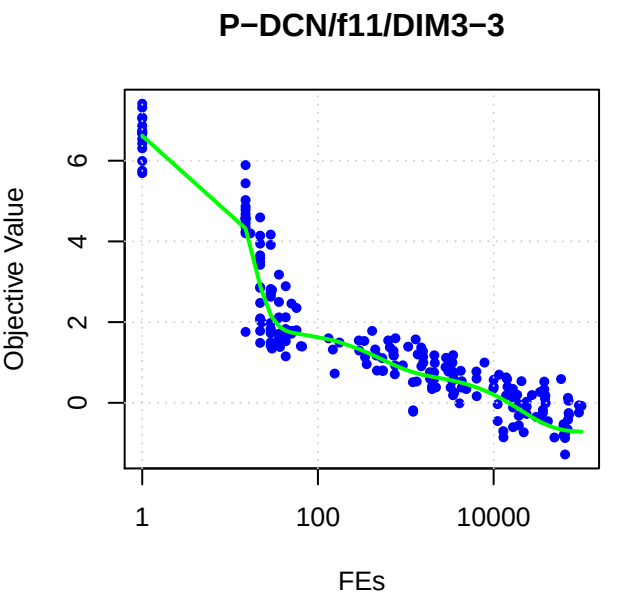
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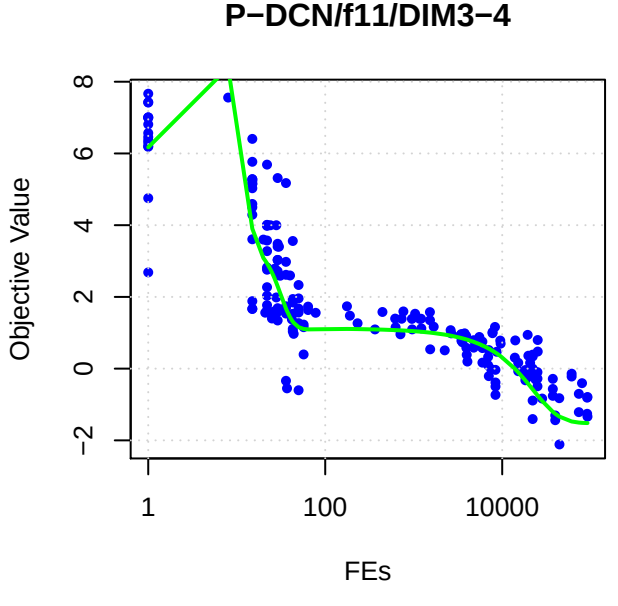
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FEs
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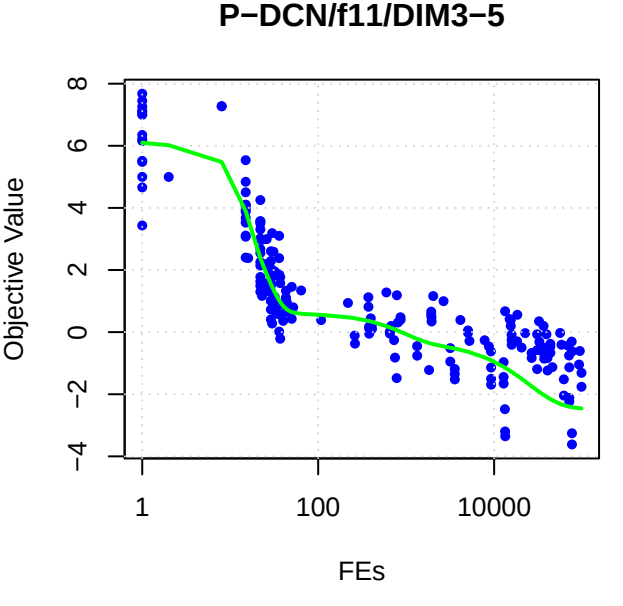
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Objective Value
FEs
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6
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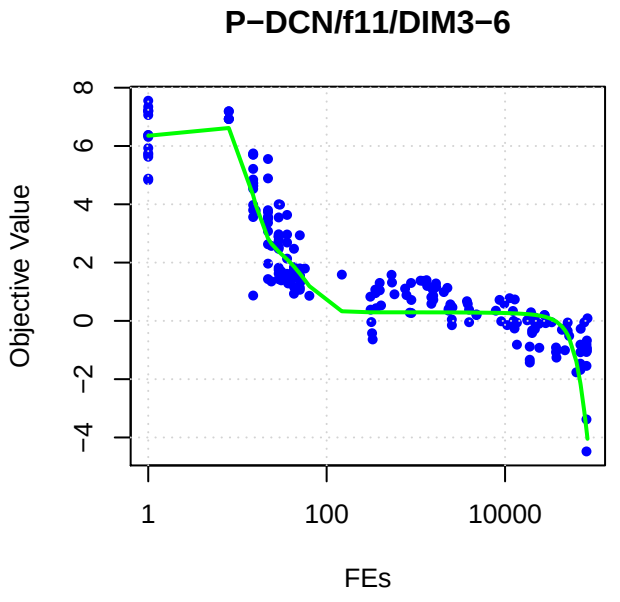
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Objective Value
FEs
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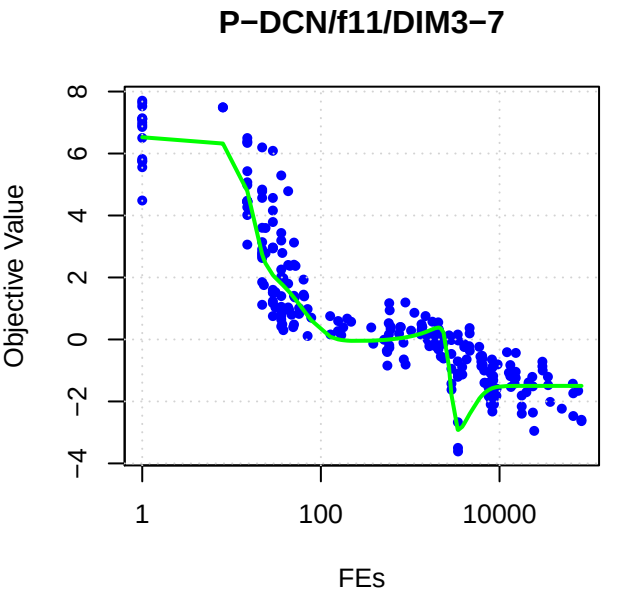
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Objective Value
FEs
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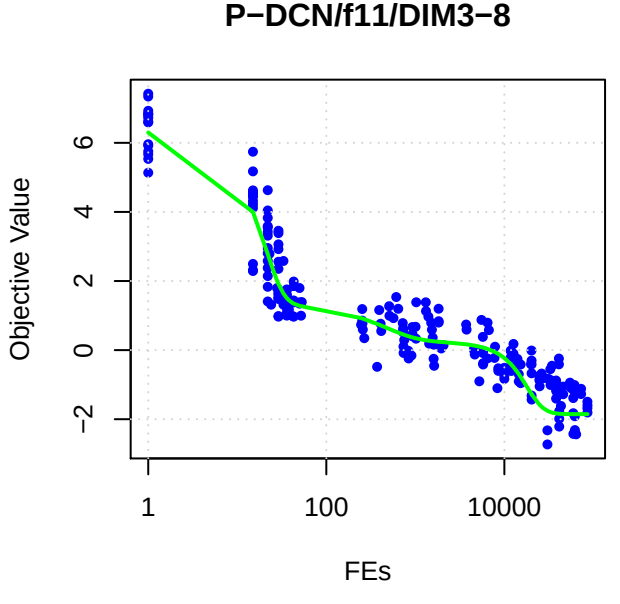
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Objective Value
FEs
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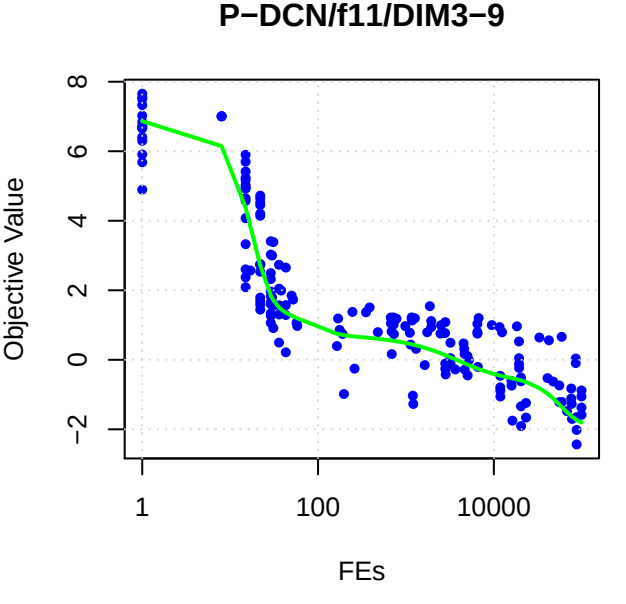
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Objective Value
FEs
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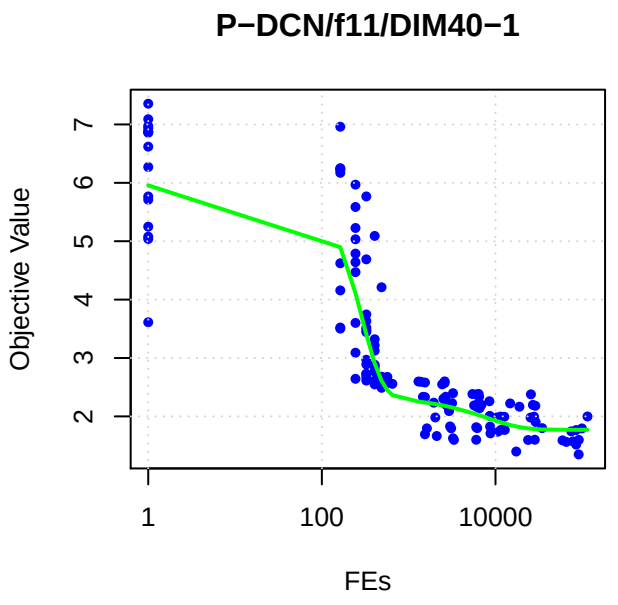
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FEs
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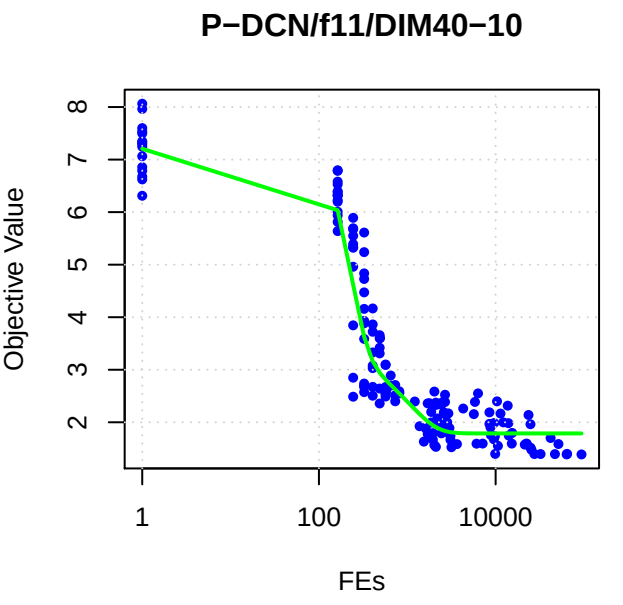
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Objective Value
FEs
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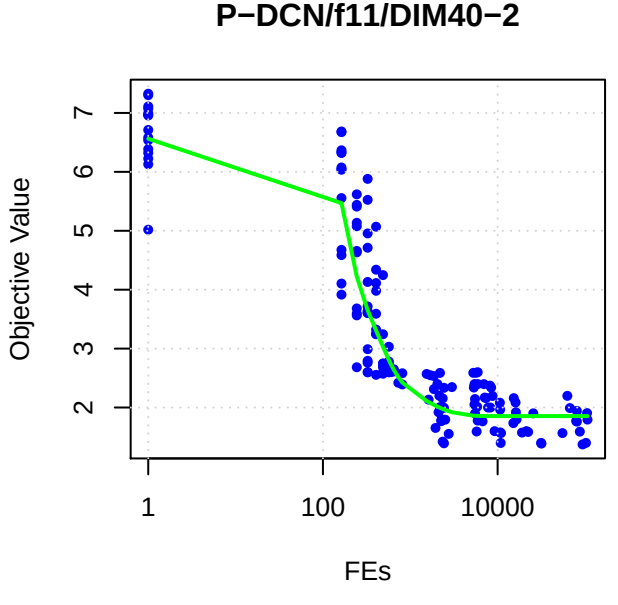
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FEs
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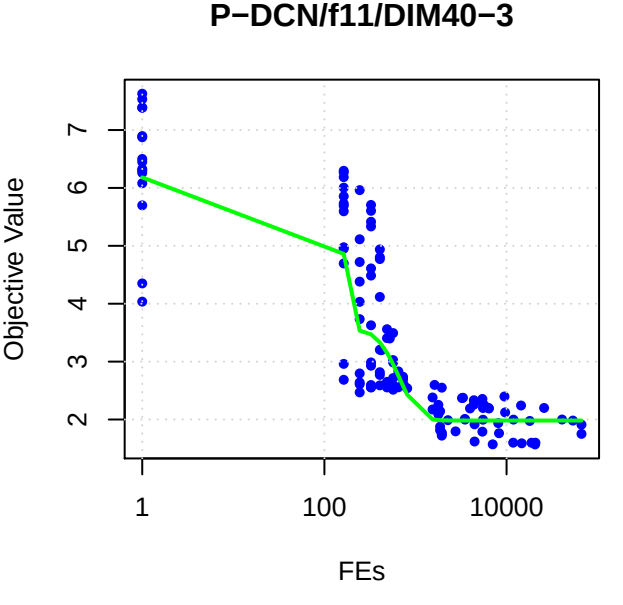
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FEs
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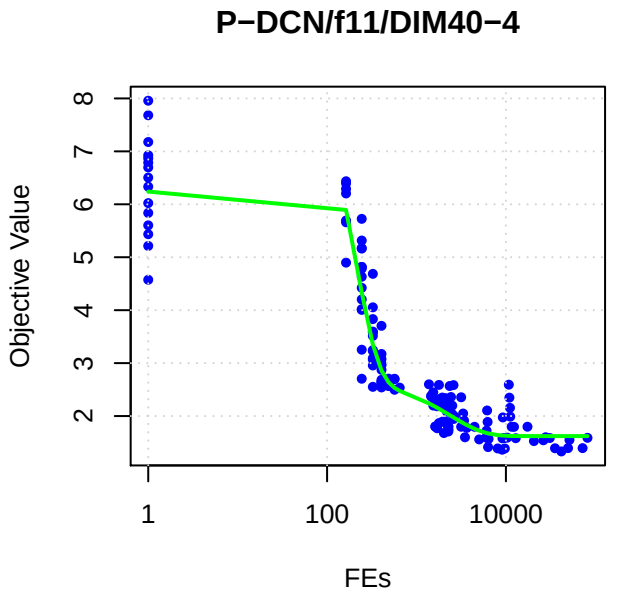
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FEs
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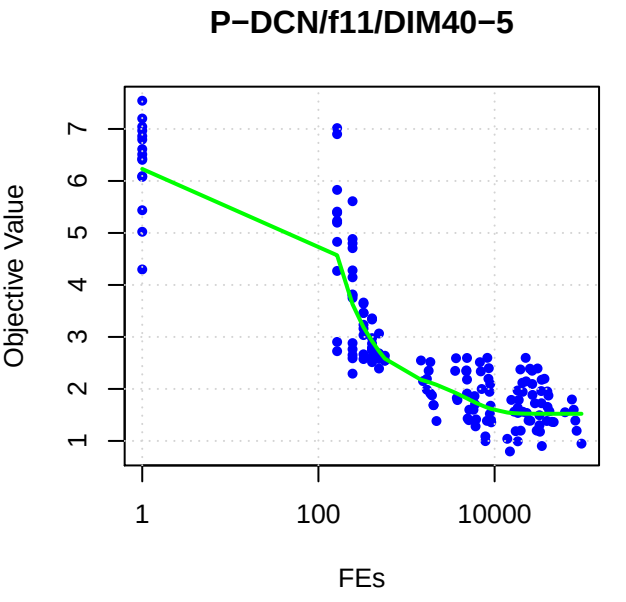
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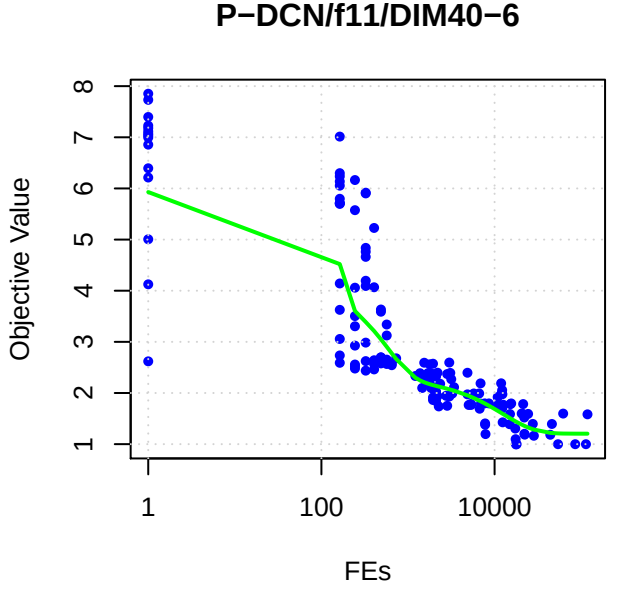
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Objective Value
FEs
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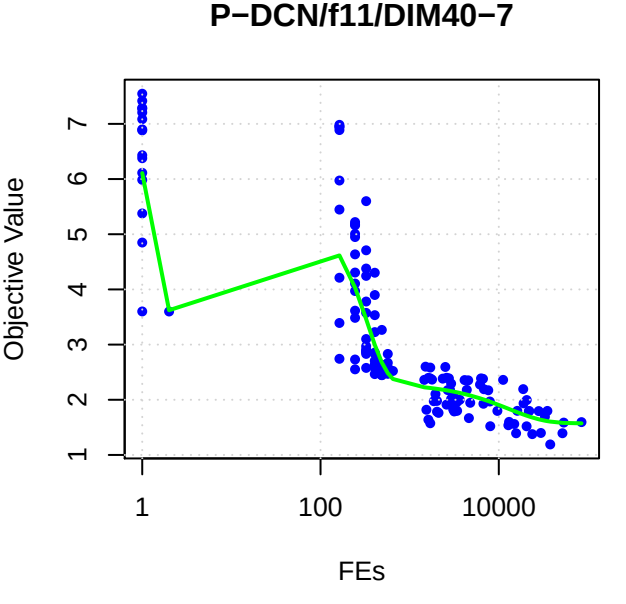
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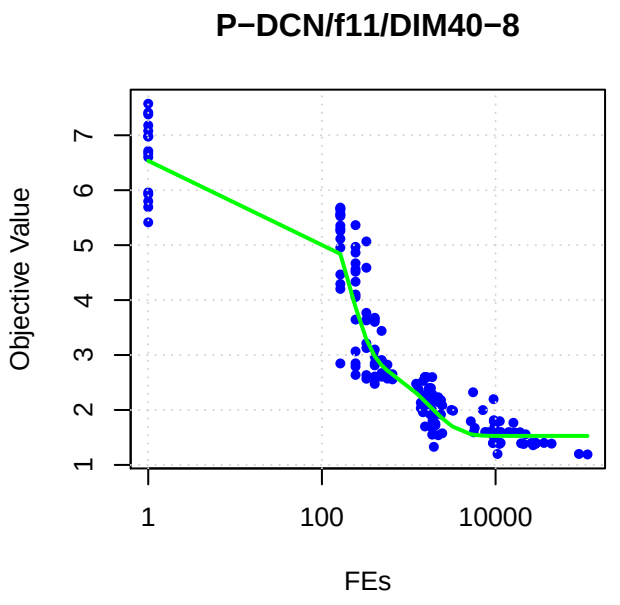
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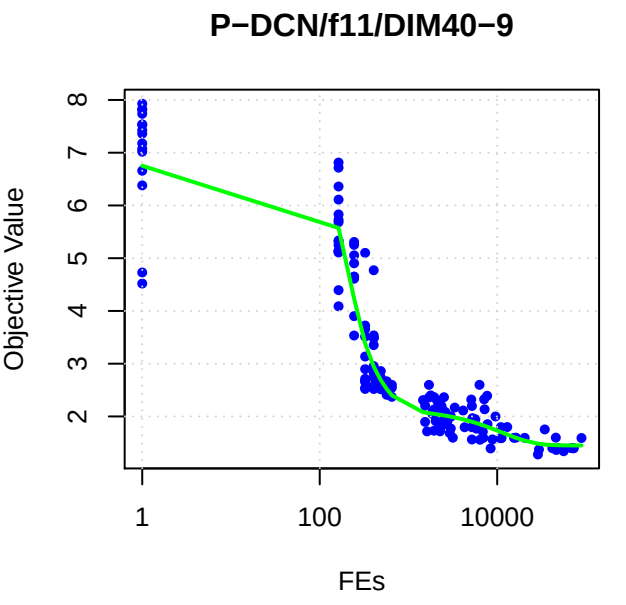
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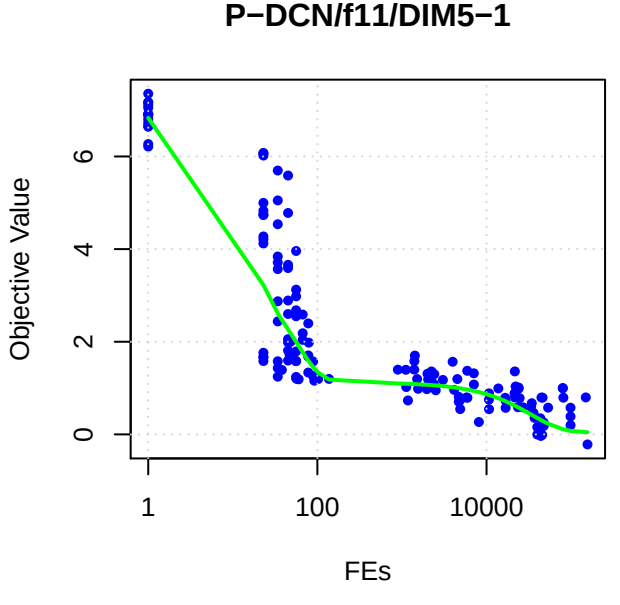
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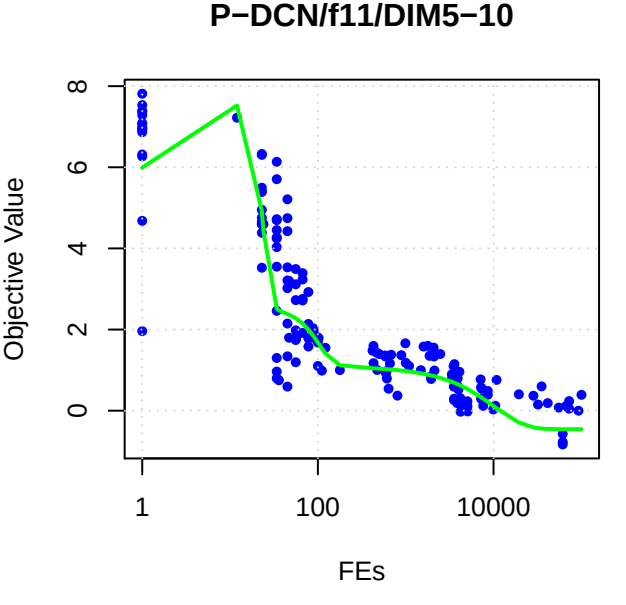
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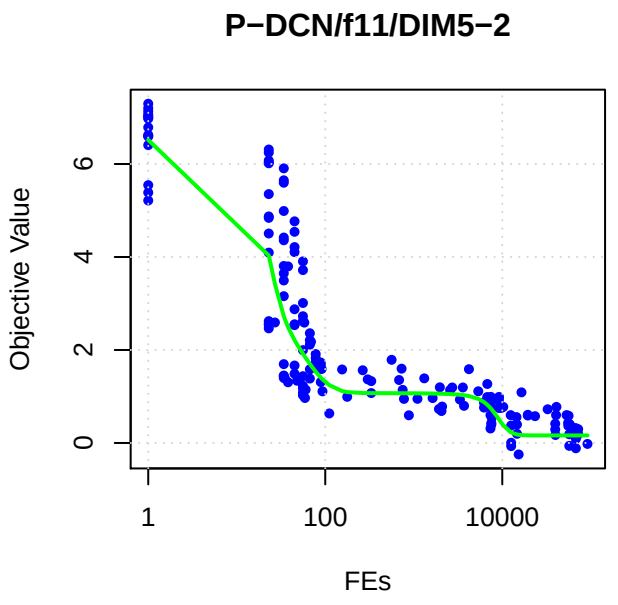
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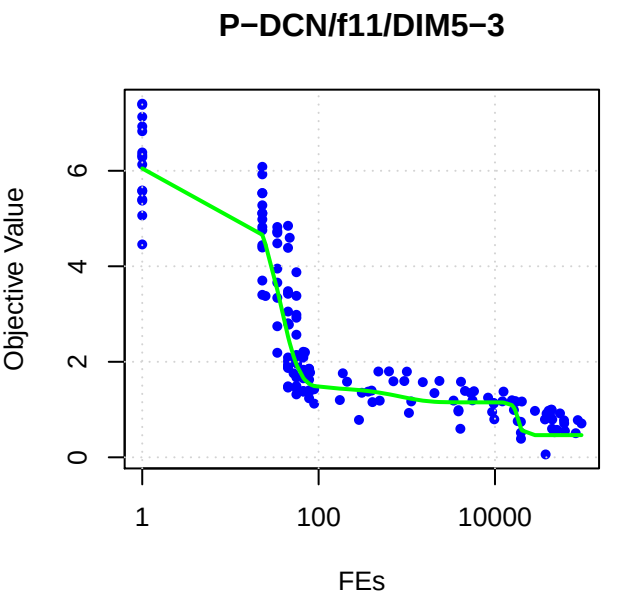
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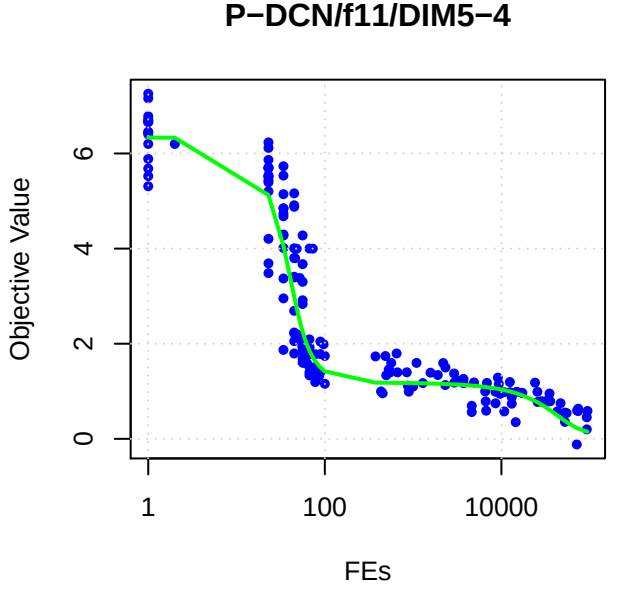
FEs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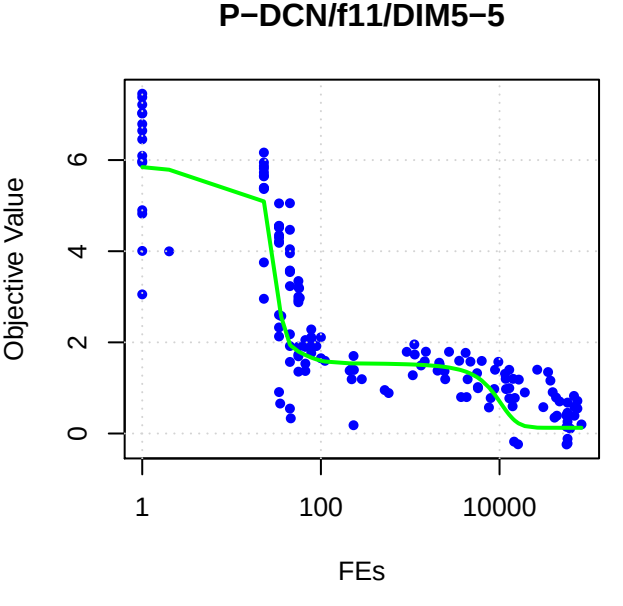
FEs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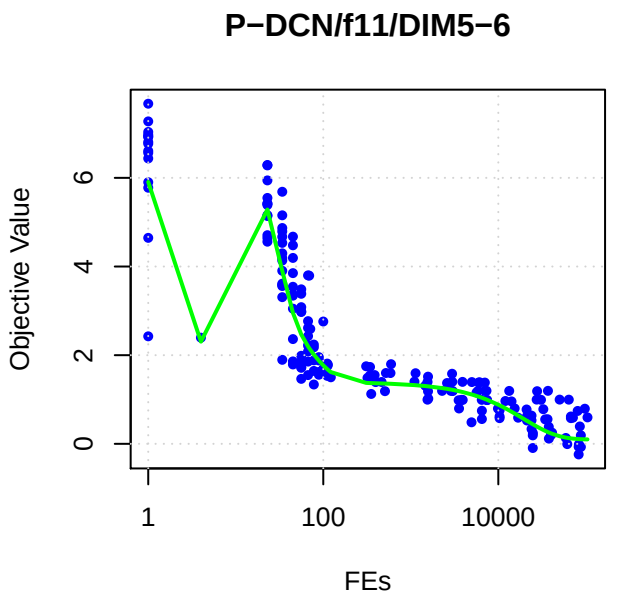
FEs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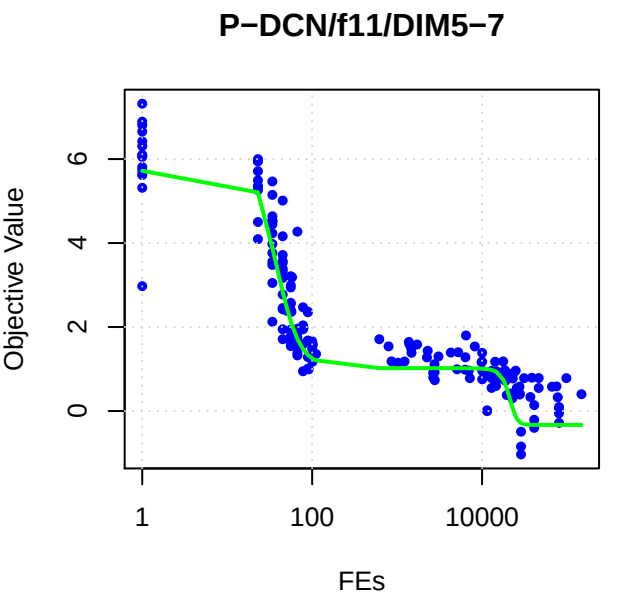
P−DCN/f11/DIM5−7
Objective Value
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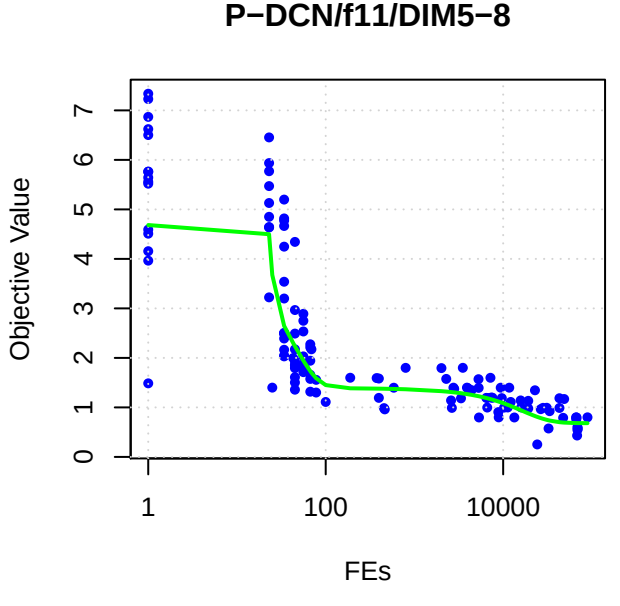
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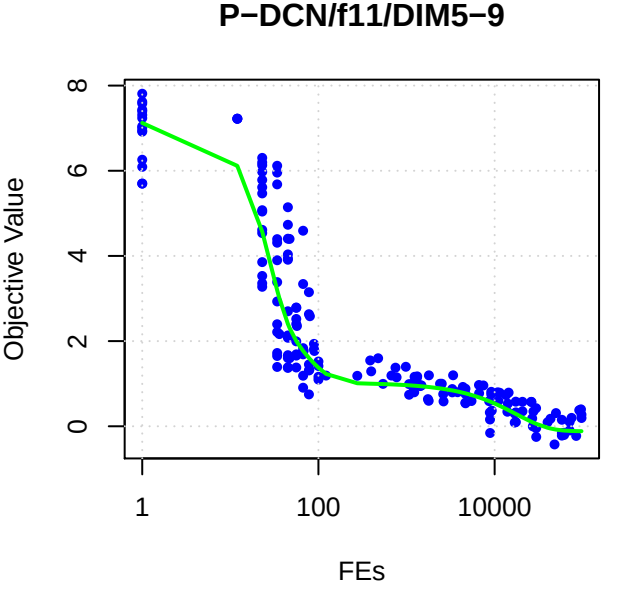
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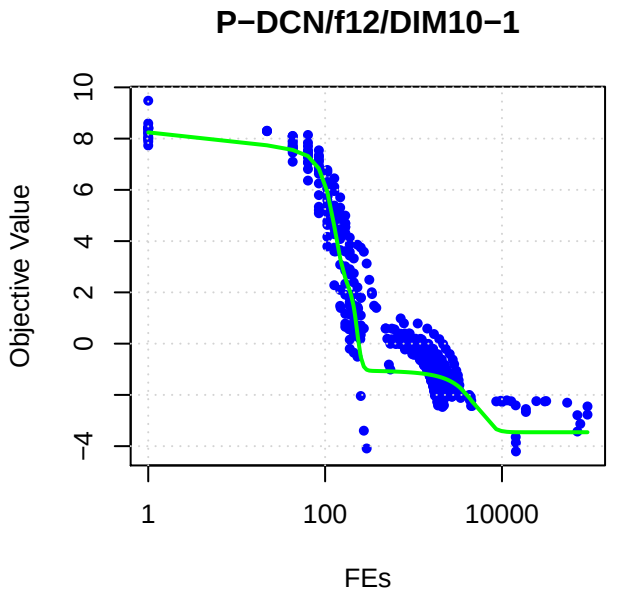
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Objective Value
FEs
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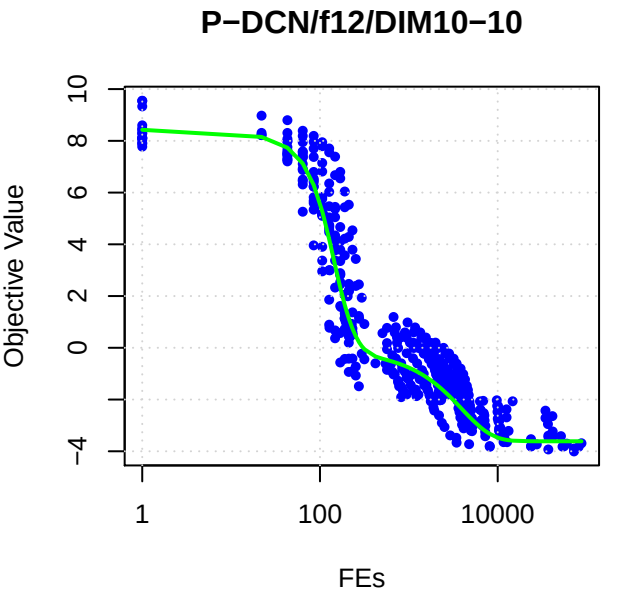
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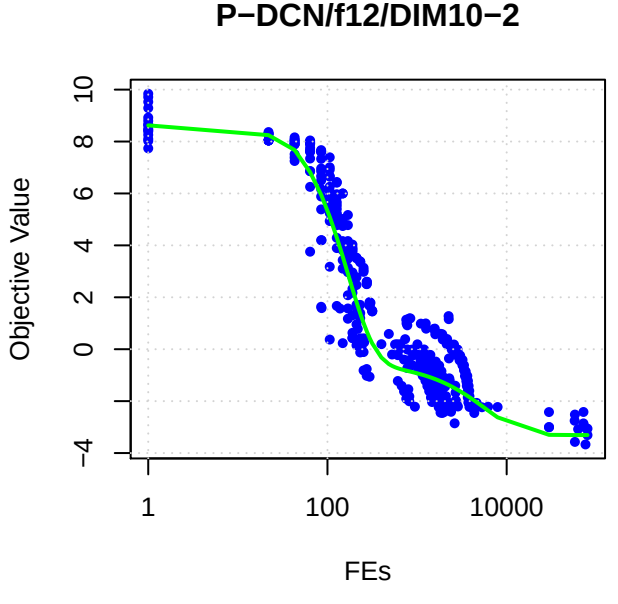
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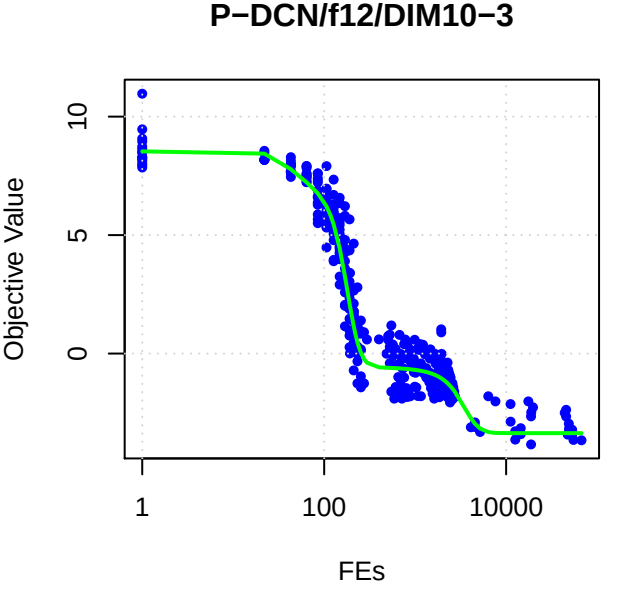
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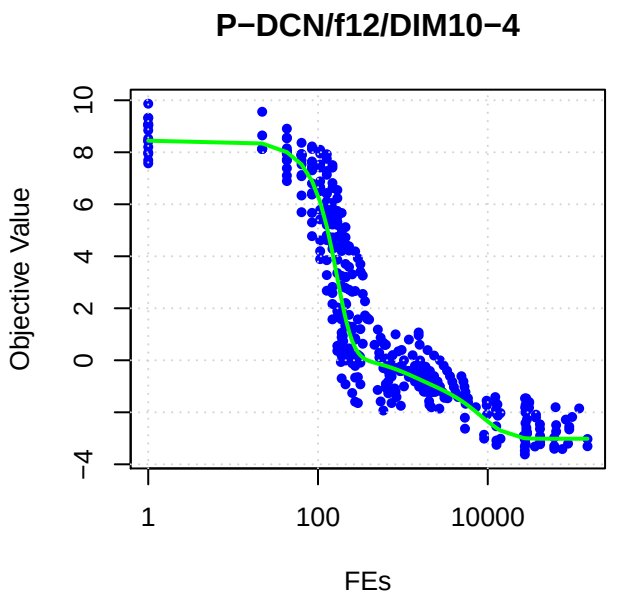
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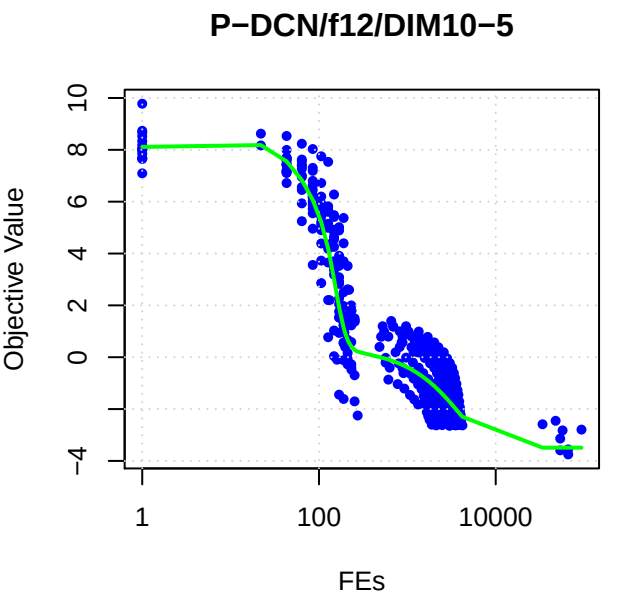
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Objective Value
FEs
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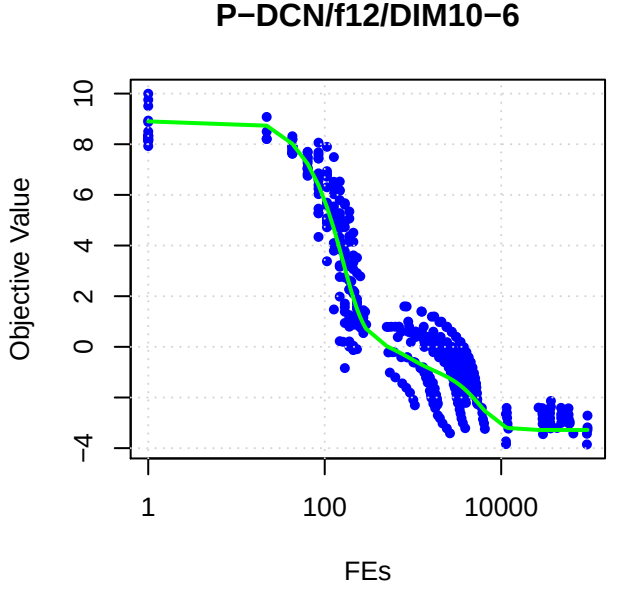
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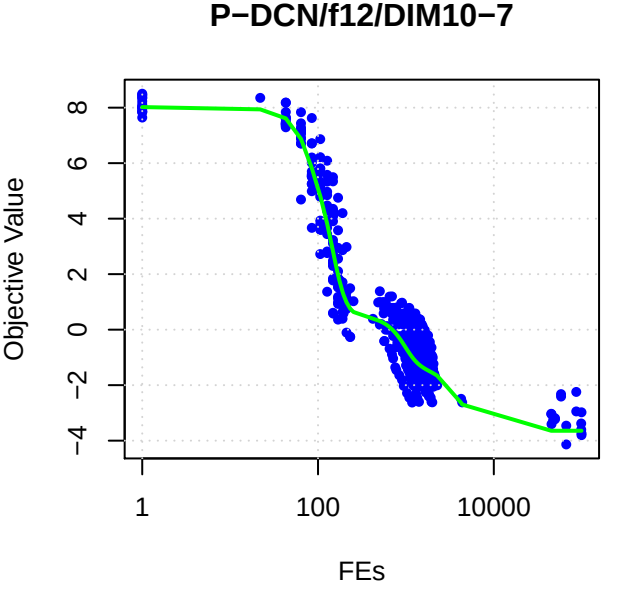
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Objective Value
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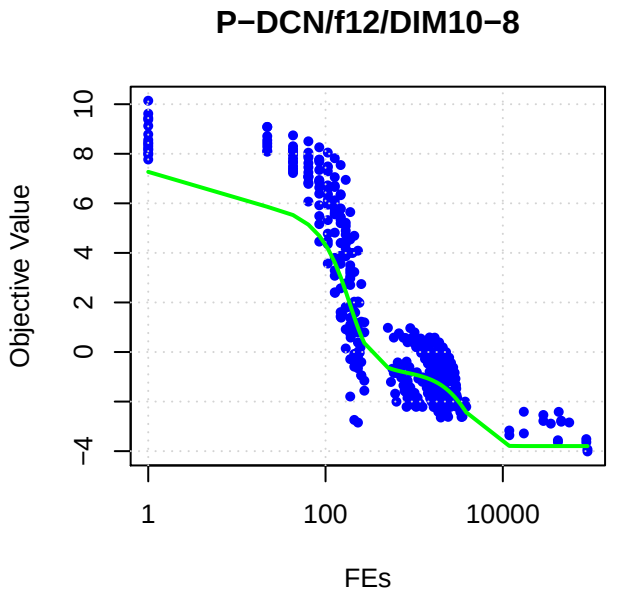
P−DCN/f12/DIM10−8
Objective Value
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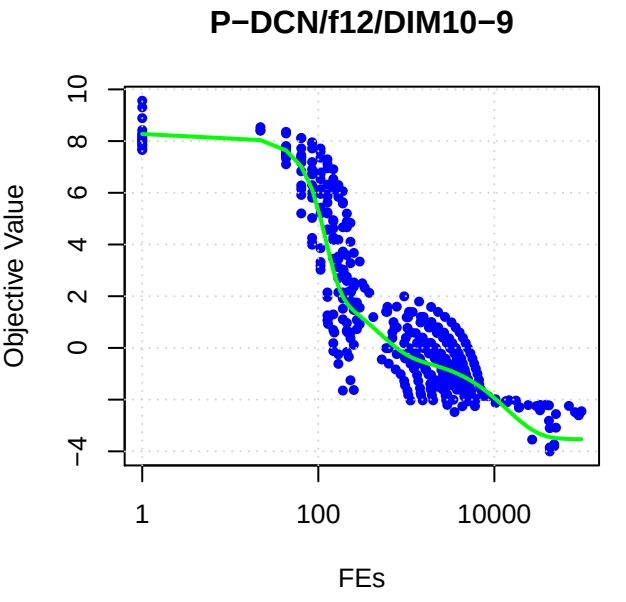
P−DCN/f12/DIM10−9
Objective Value
FEs
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4
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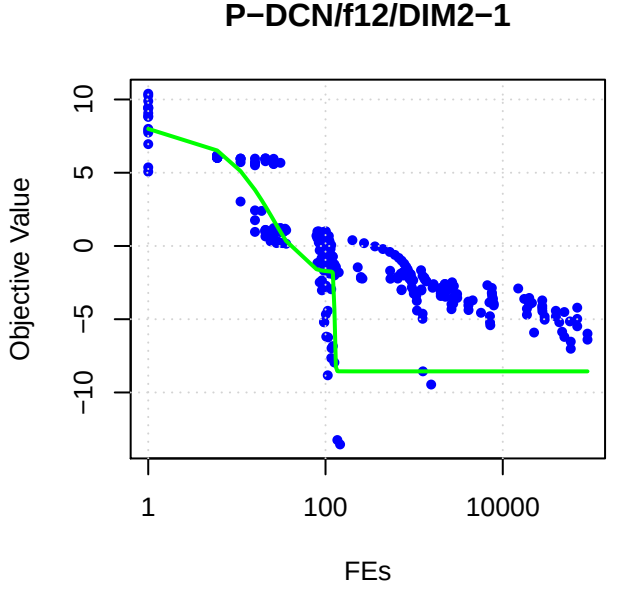
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Objective Value
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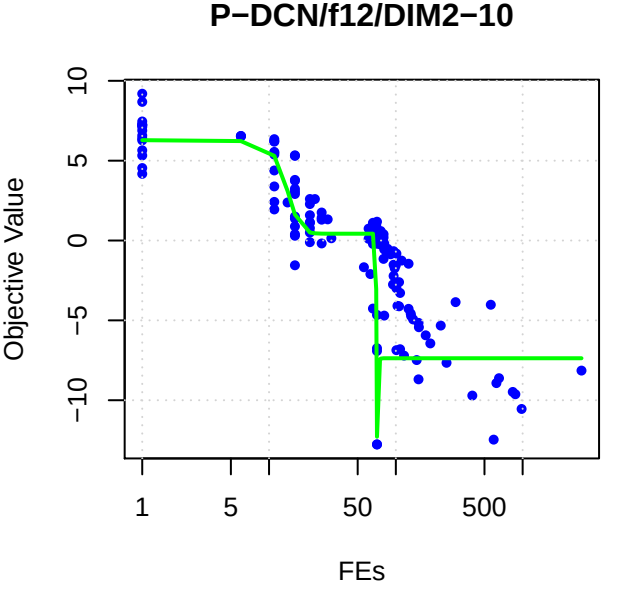
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Objective Value
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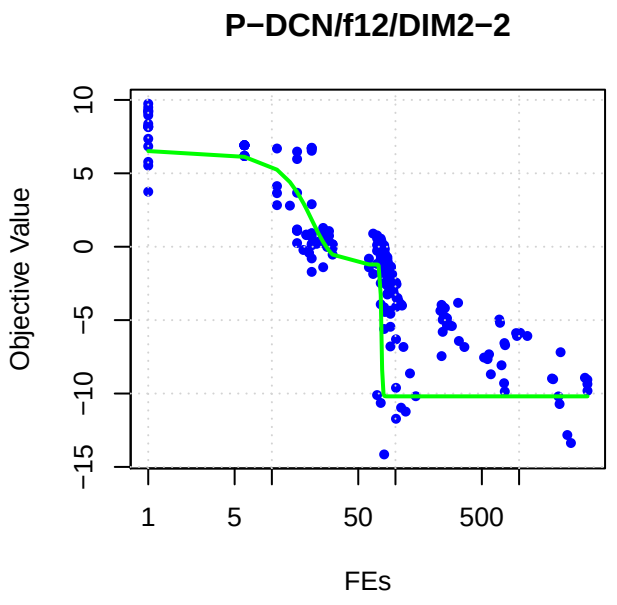
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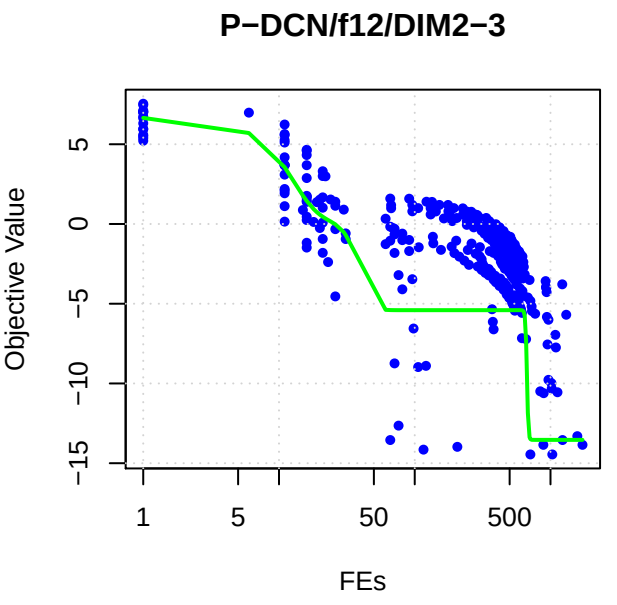
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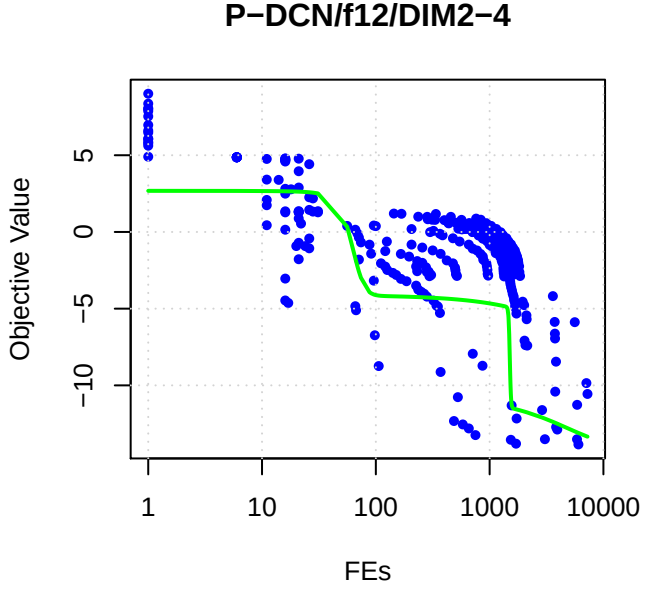
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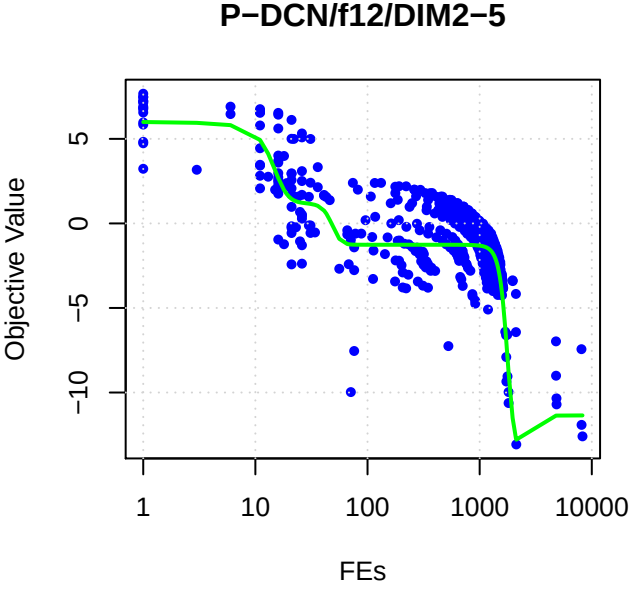
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Objective Value
FEs
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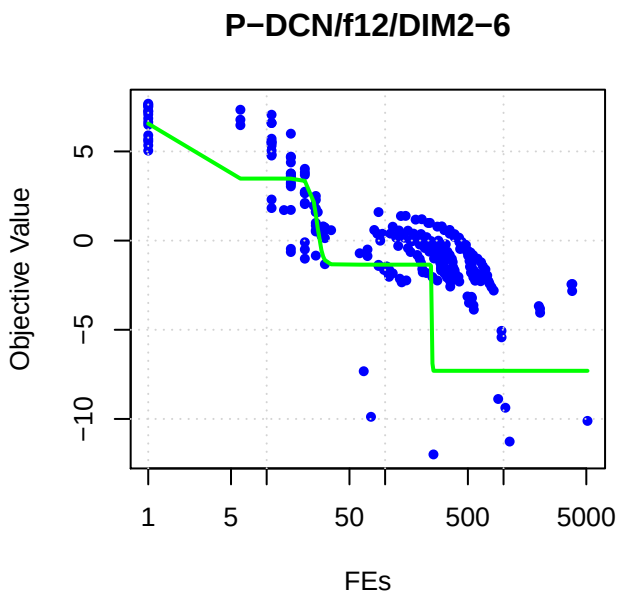
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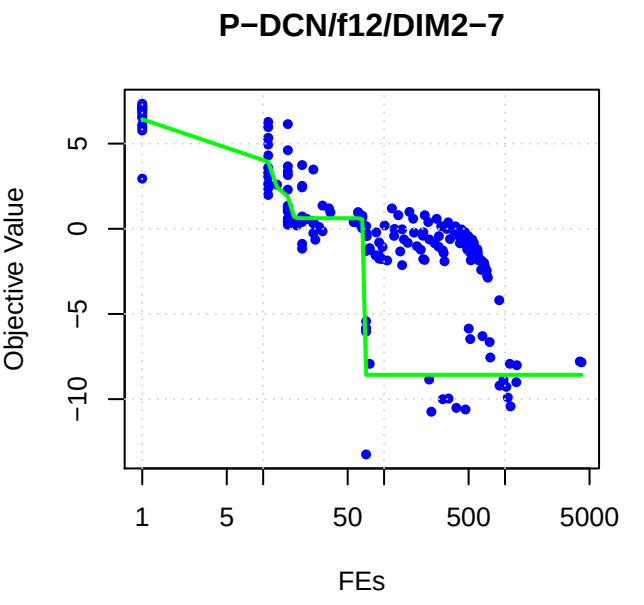
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FEs
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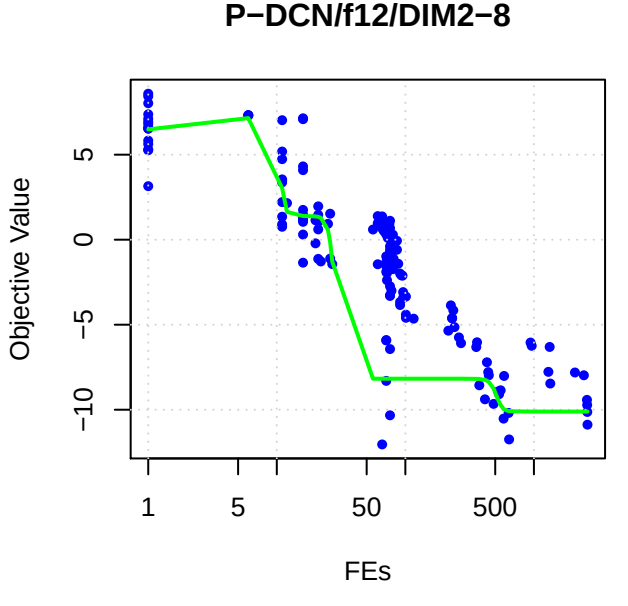
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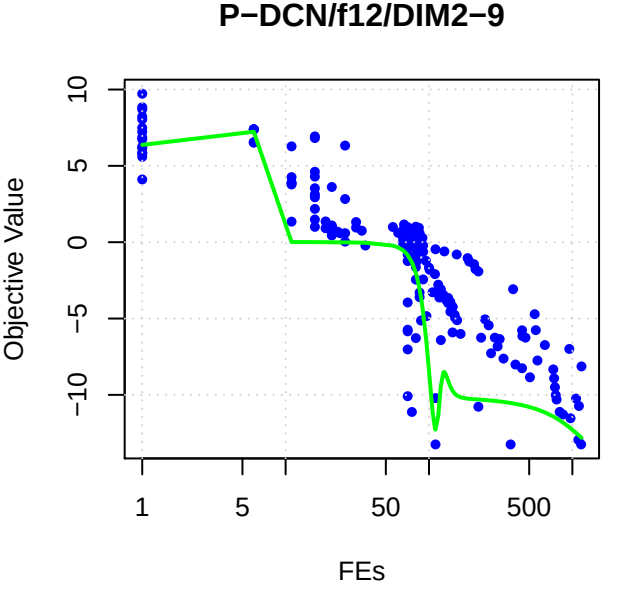
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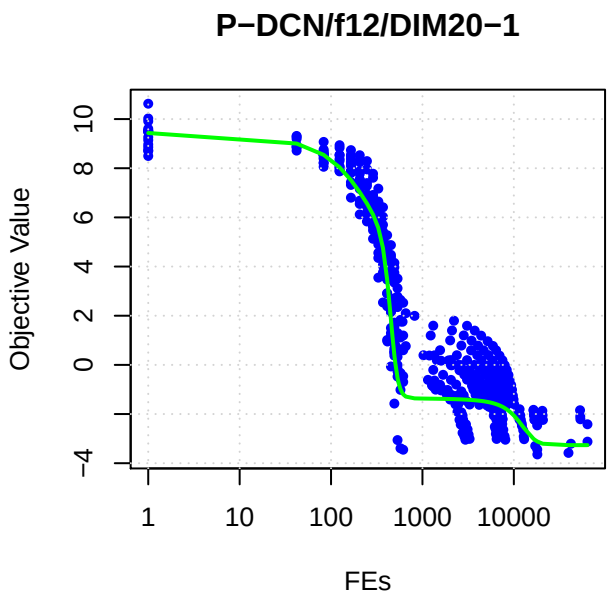
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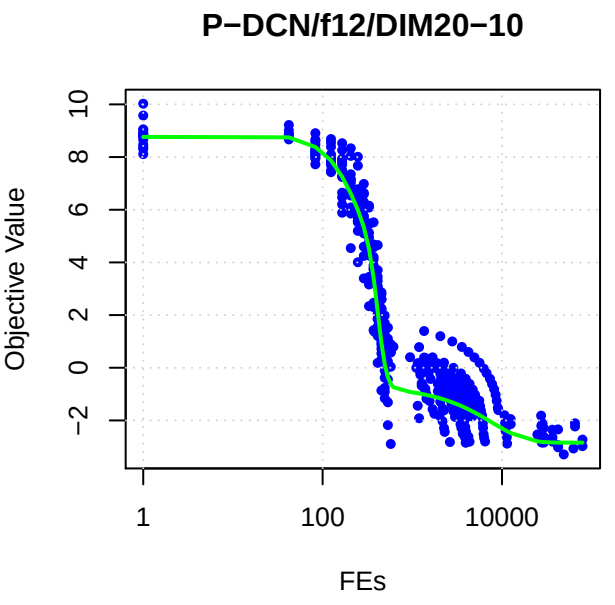
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FEs
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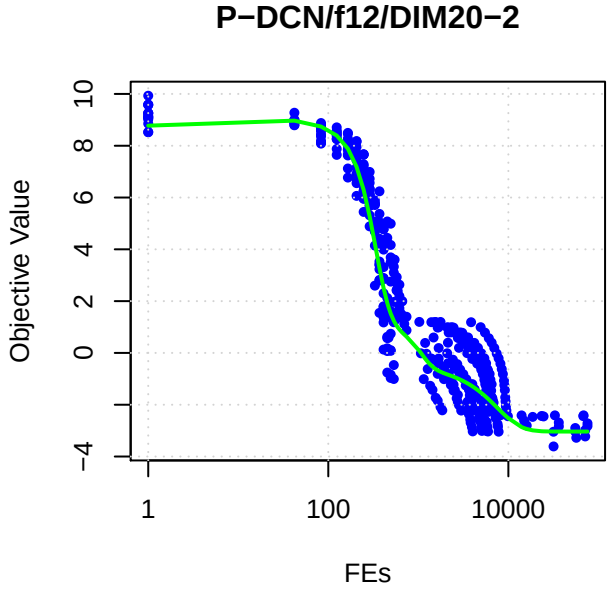
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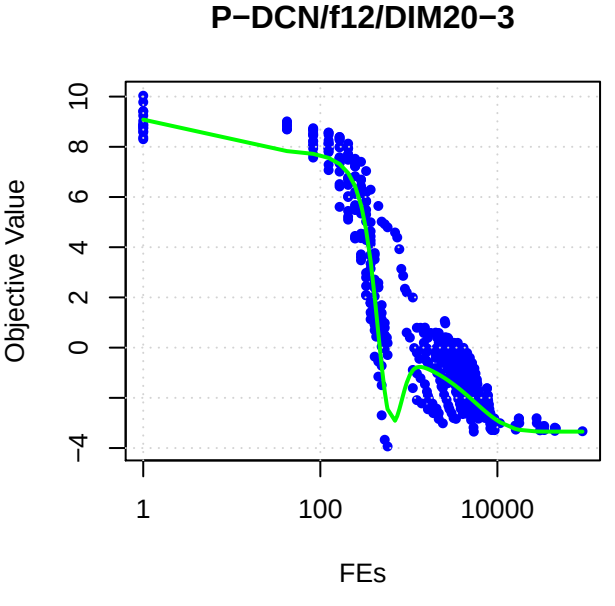
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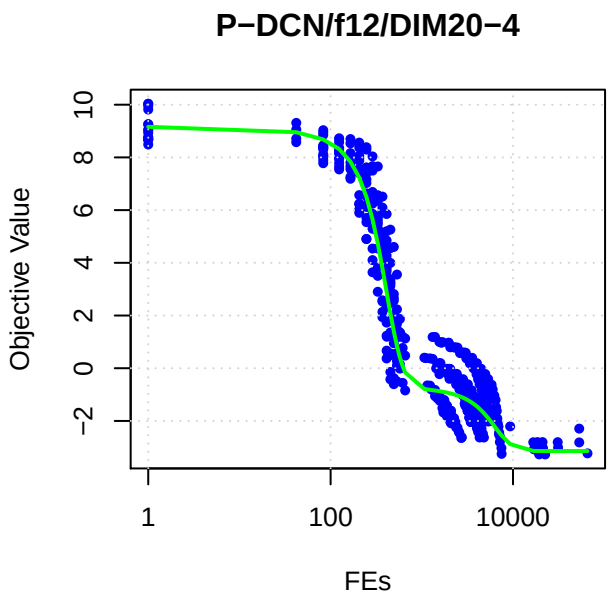
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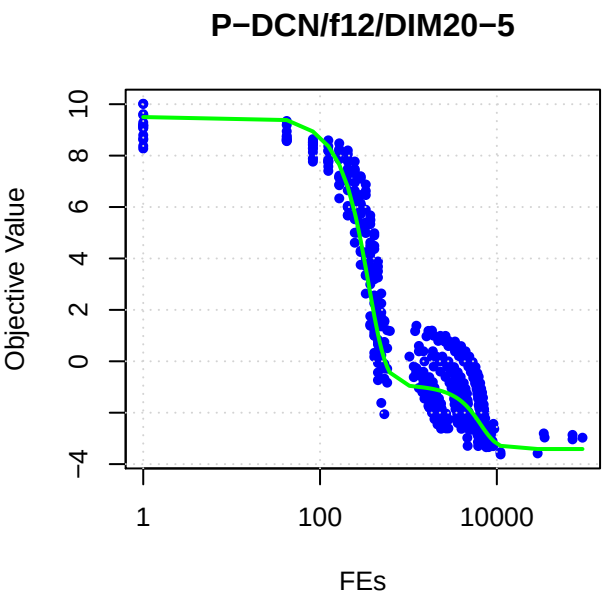
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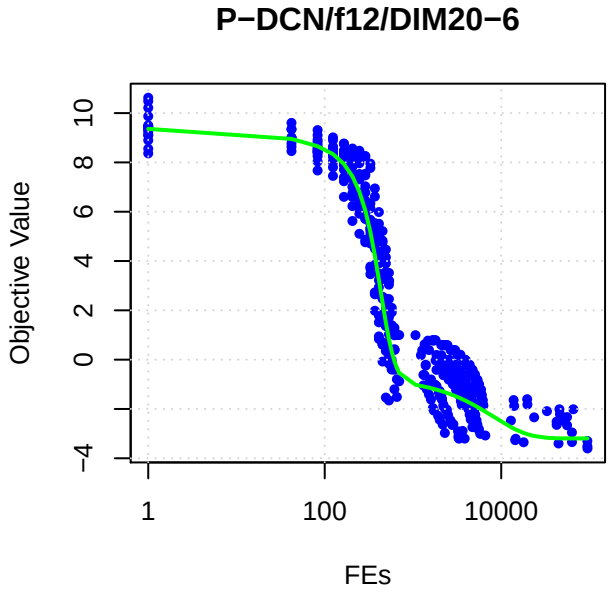
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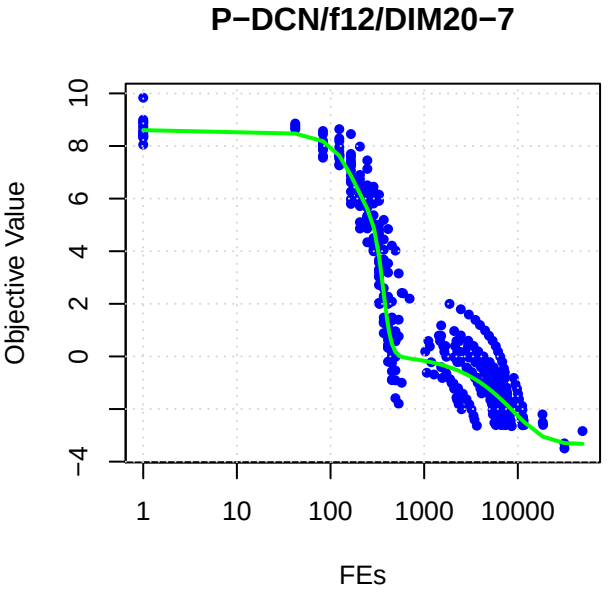
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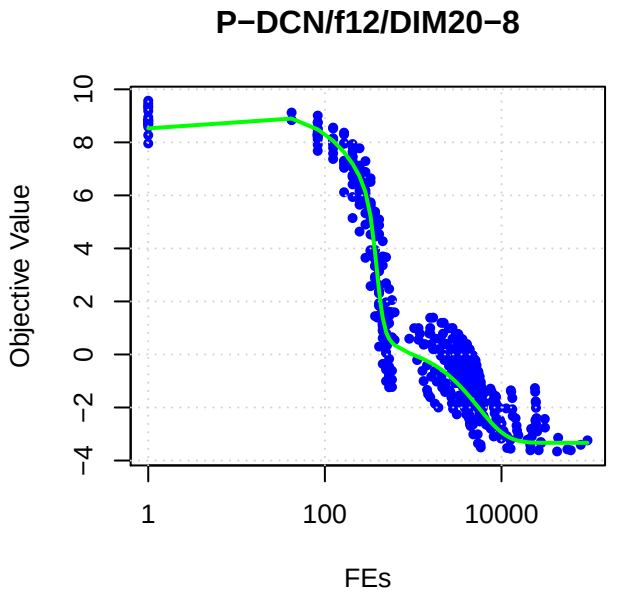
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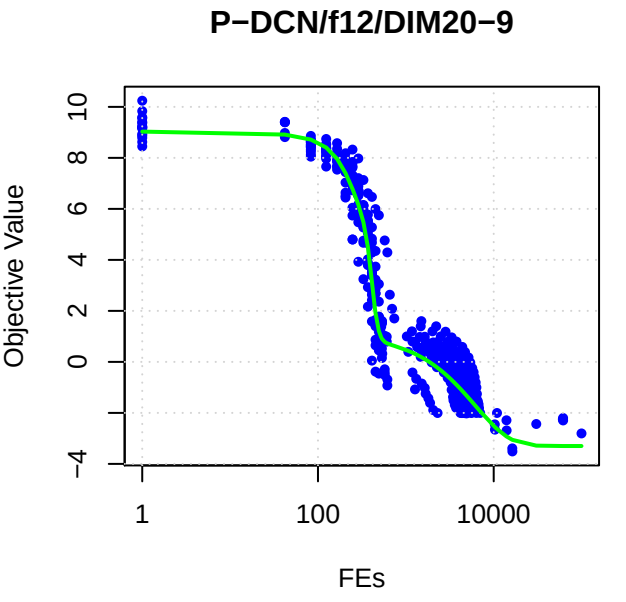
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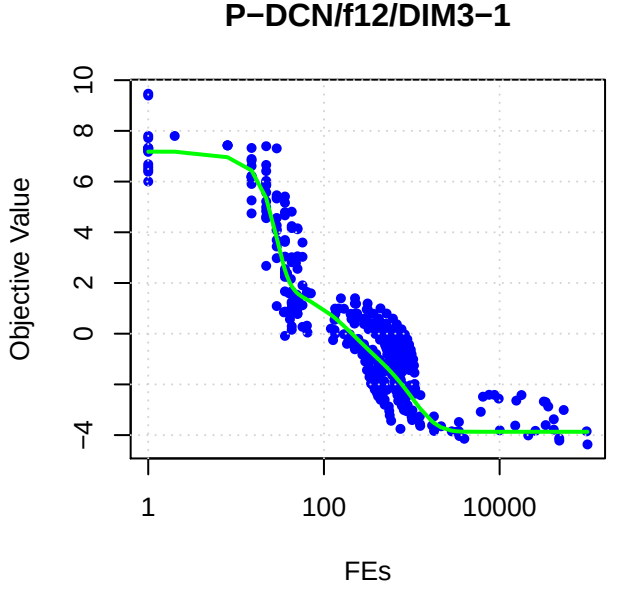
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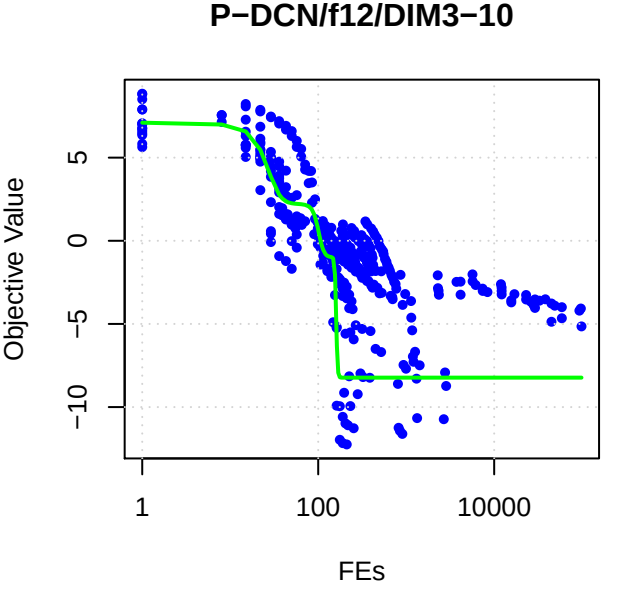
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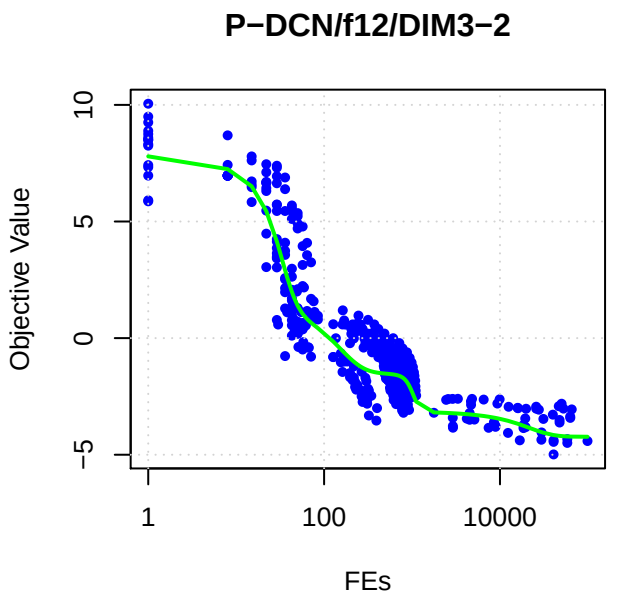
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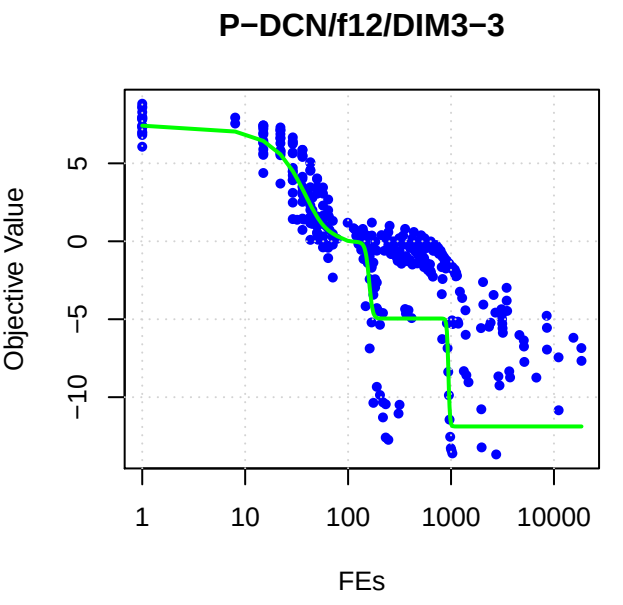
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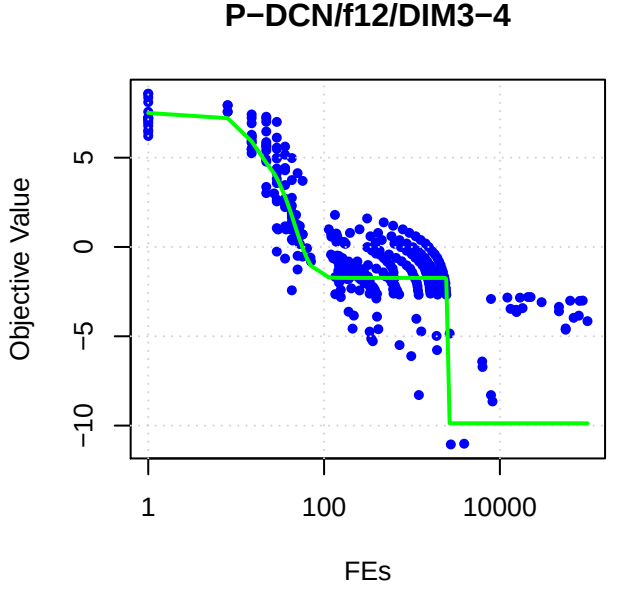
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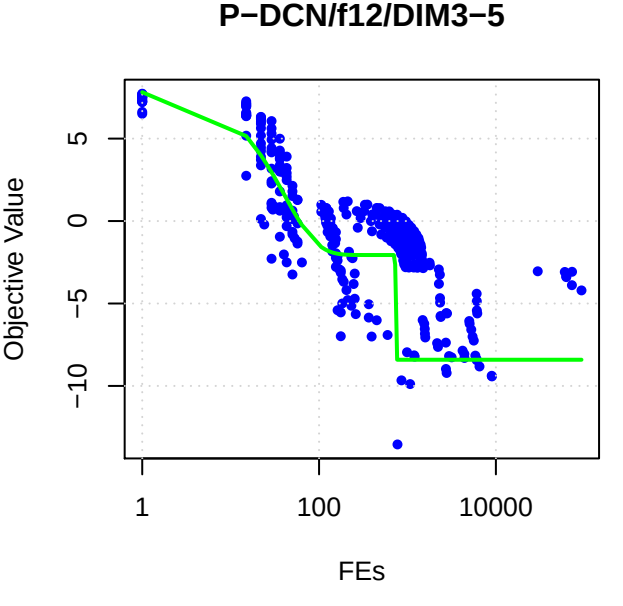
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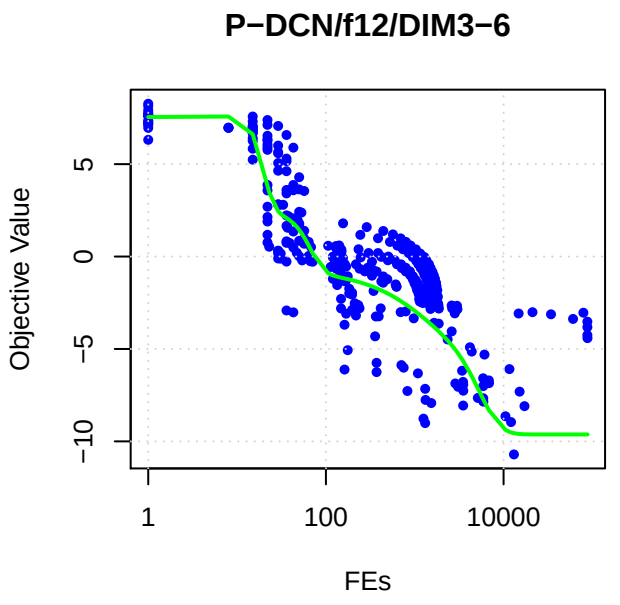
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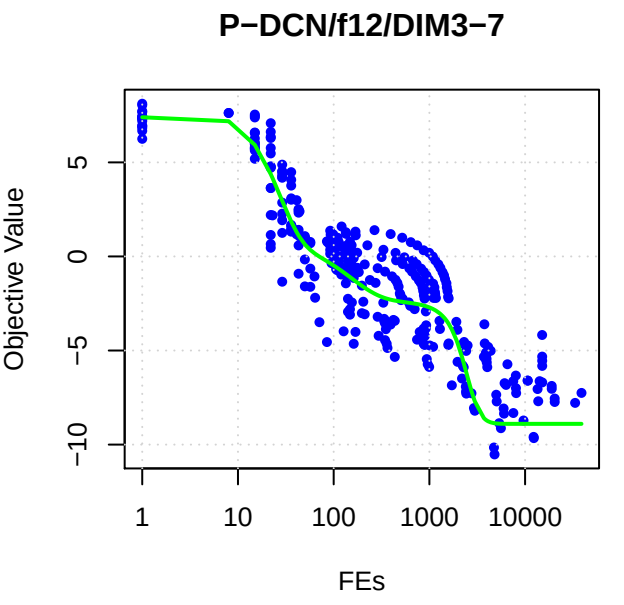
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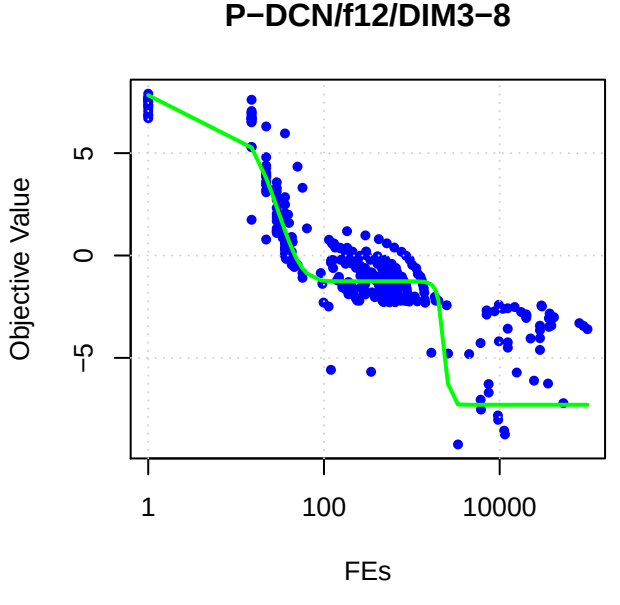
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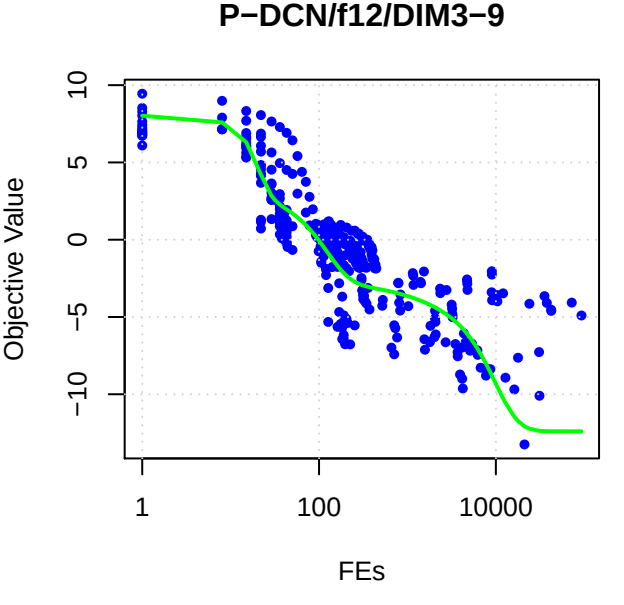
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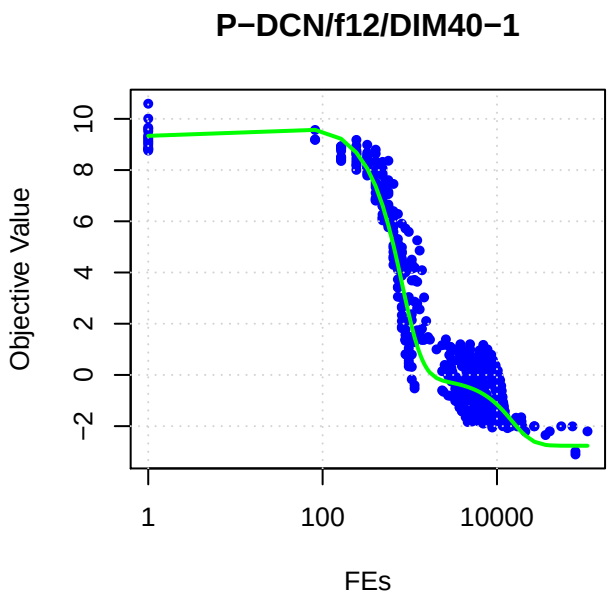
FEs


P−DCN/f12/DIM40−1
Objective Value
FEs
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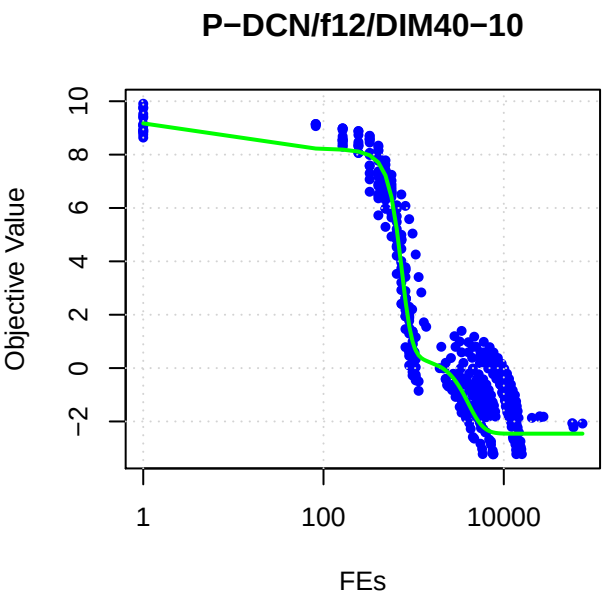
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Objective Value
FEs
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10000
−2
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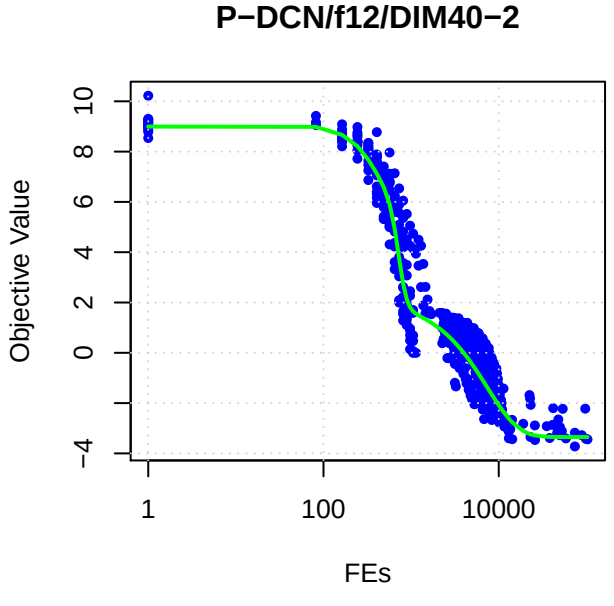
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Objective Value
FEs
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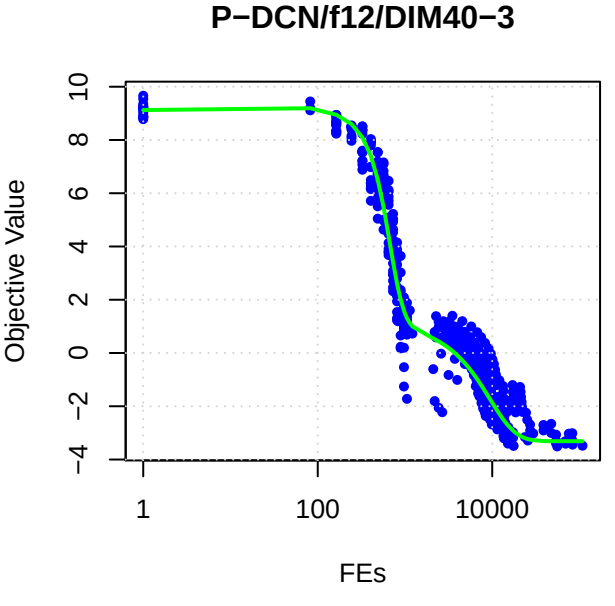
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Objective Value
FEs
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100
10000
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−2
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8
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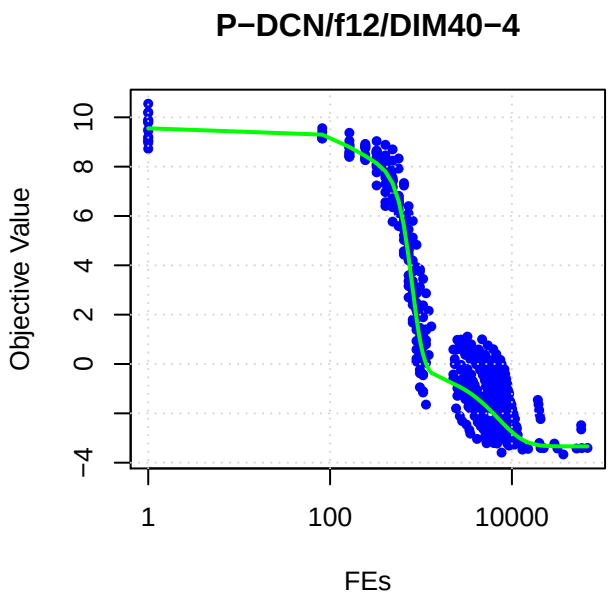
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Objective Value
FEs
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10000
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8
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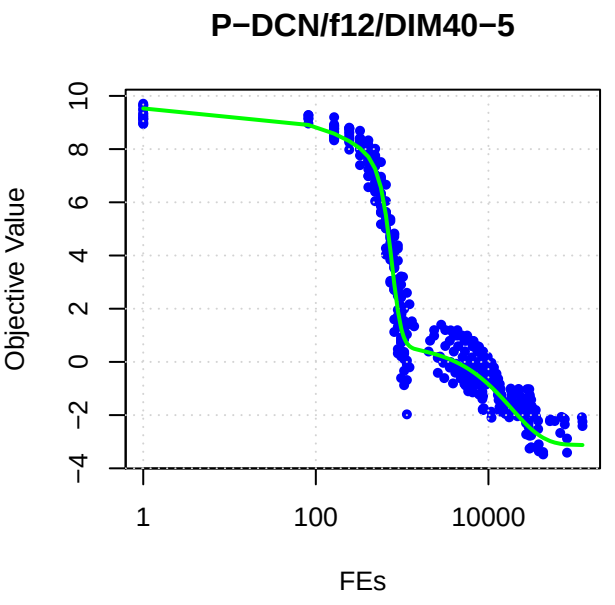
P−DCN/f12/DIM40−5
Objective Value
FEs
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10000
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−2
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4
6
8
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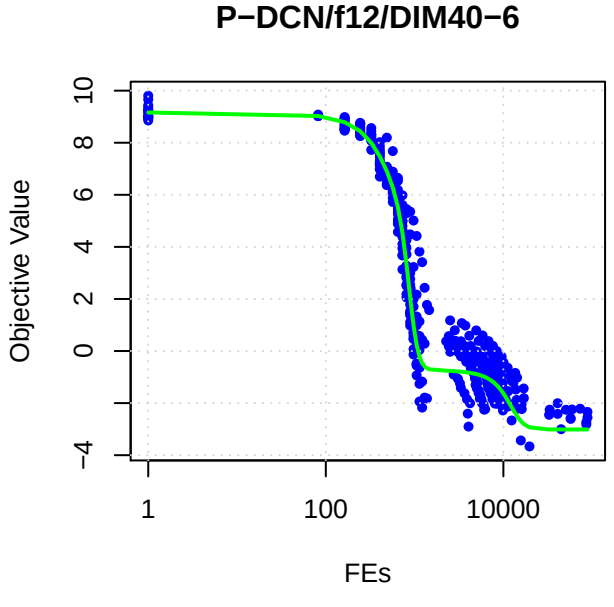
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Objective Value
FEs
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10000
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8
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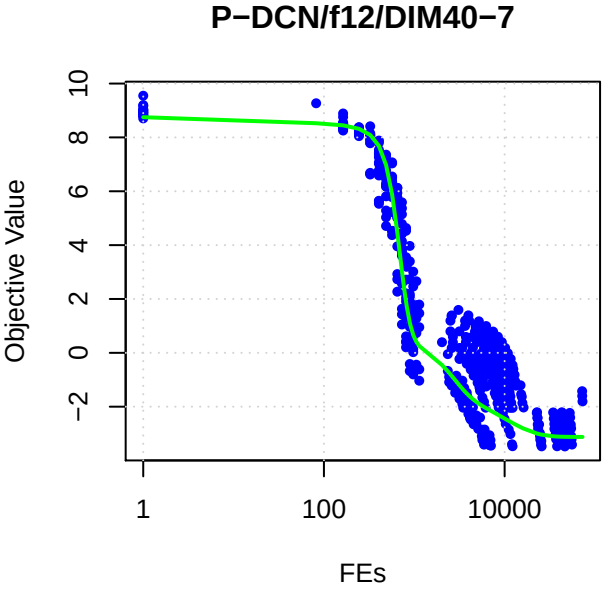
P−DCN/f12/DIM40−7
Objective Value
FEs
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100
10000
−2
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8
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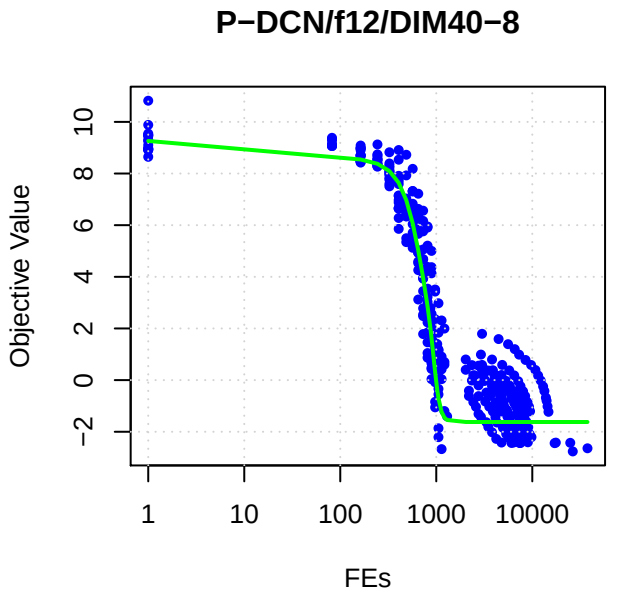
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Objective Value
FEs
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8
6
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2
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−2
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10
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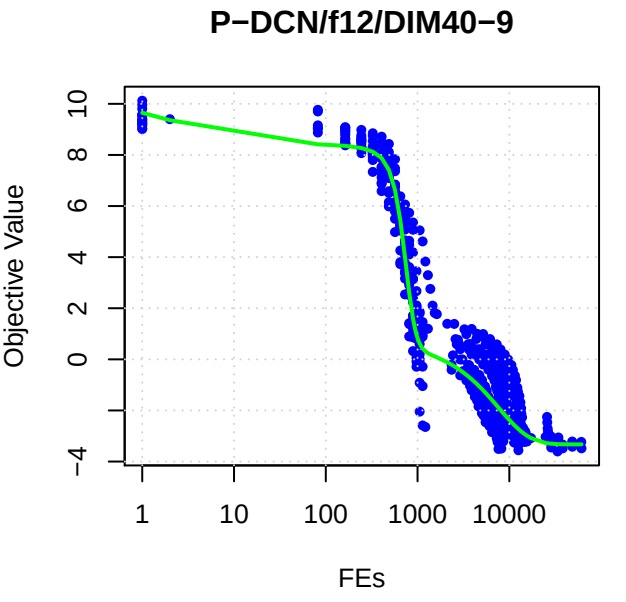
1000
10000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Objective Value
FEs
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6
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1000
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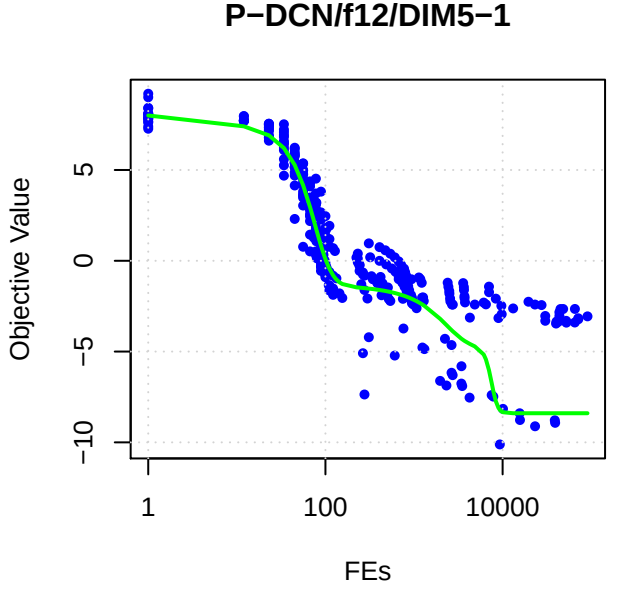
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Objective Value
FEs
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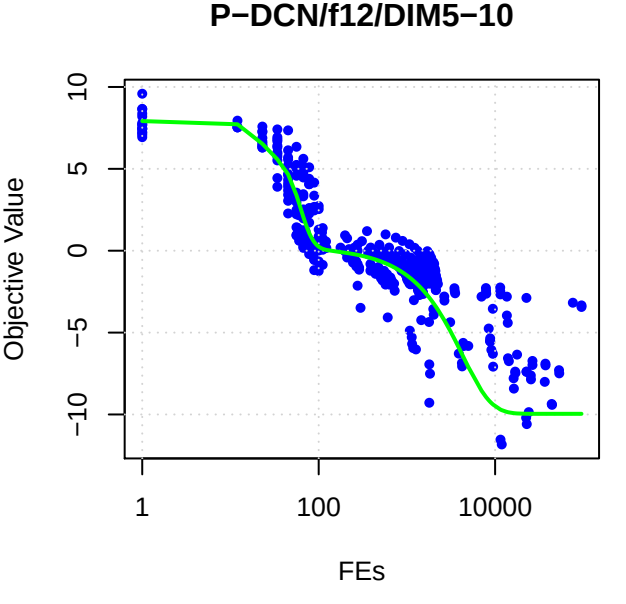
−5
−10
1
100
10000


P−DCN/f12/DIM5−10
Objective Value
FEs
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−5
−10
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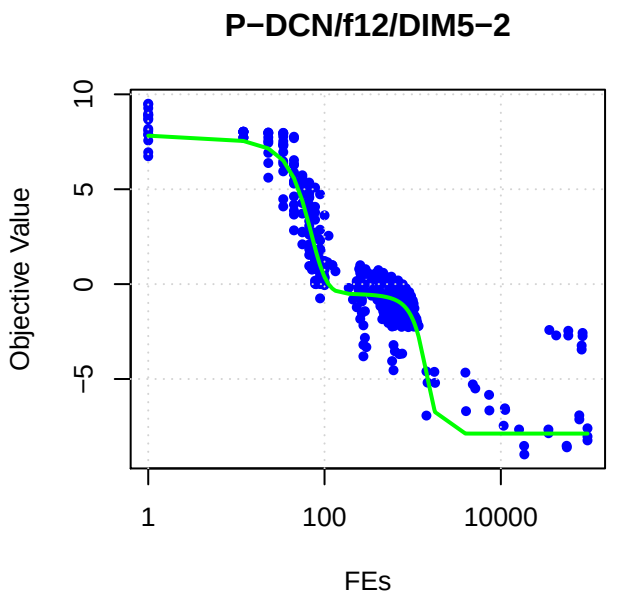
100
10000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Objective Value
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−5
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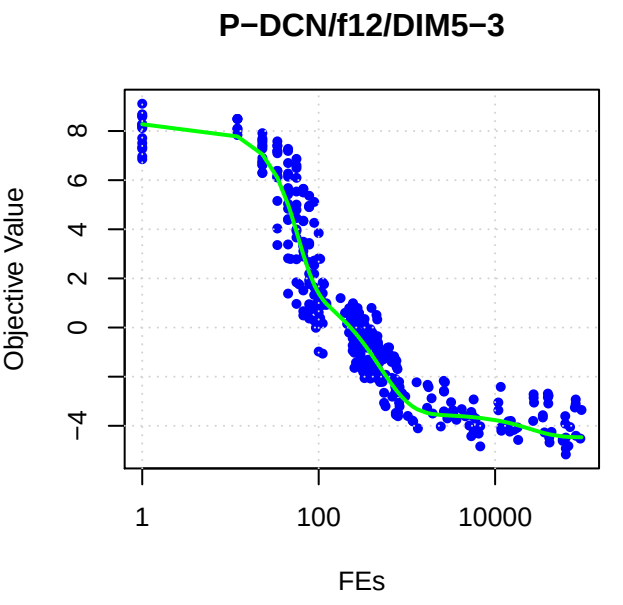
10000
FEs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Objective Value
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4
2
0
−4
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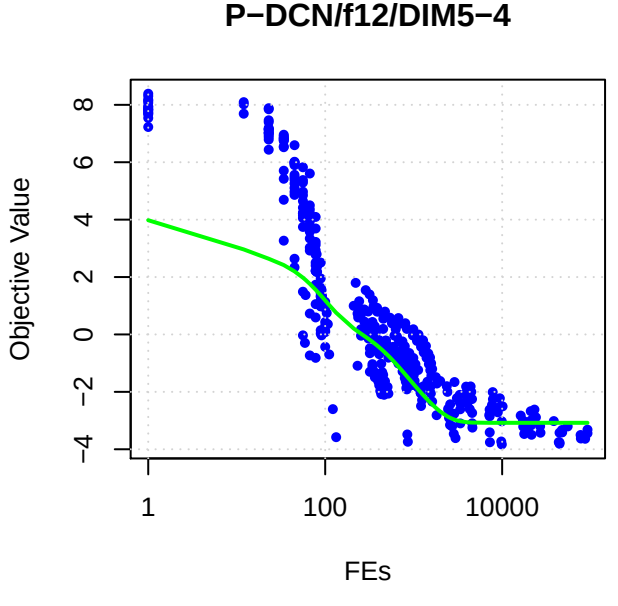
100
10000
FEs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Objective Value
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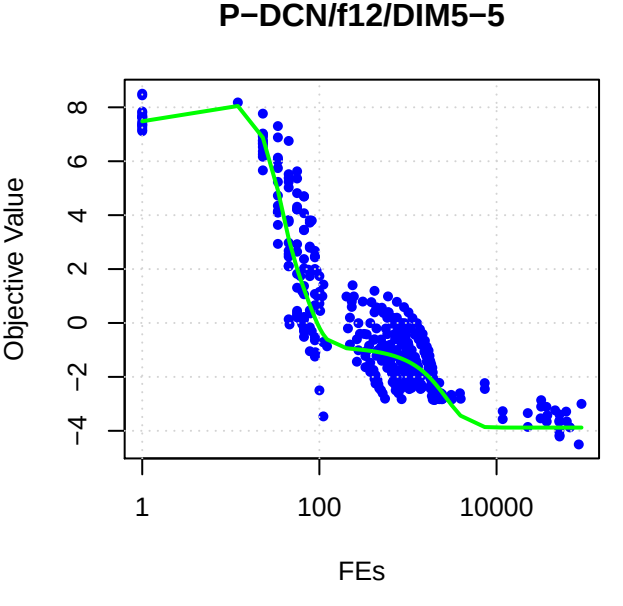
100
10000
FEs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Objective Value
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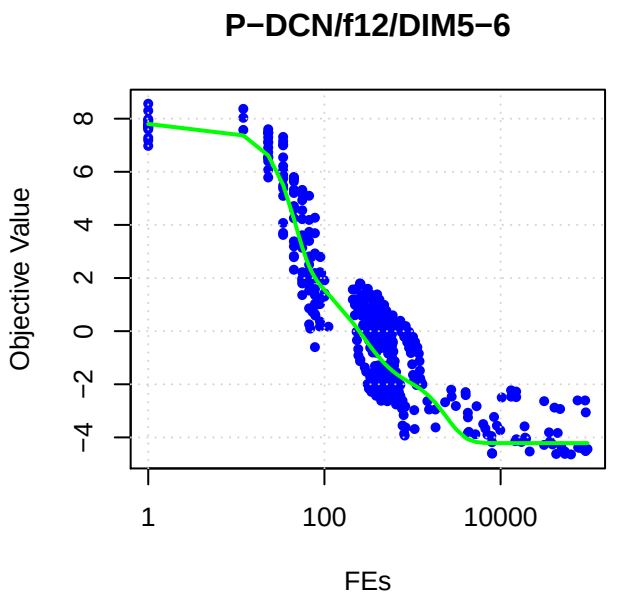
10000
FEs


P−DCN/f12/DIM5−6
Objective Value
FEs
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10000
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4
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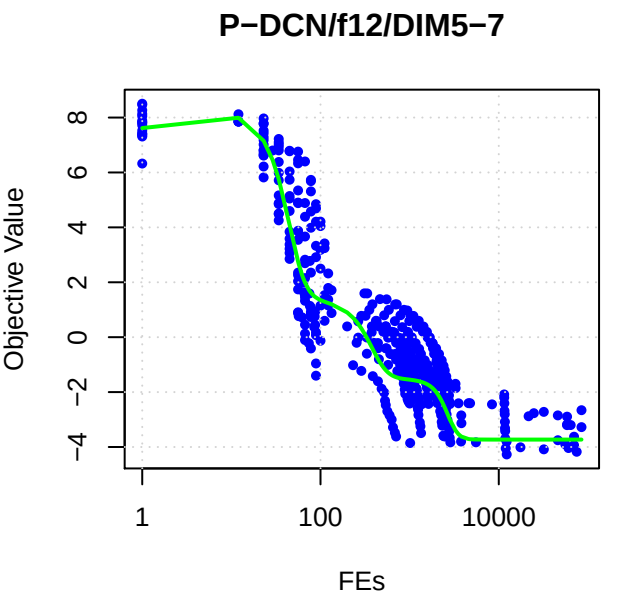
−2
−4


P−DCN/f12/DIM5−7
Objective Value
FEs
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10000
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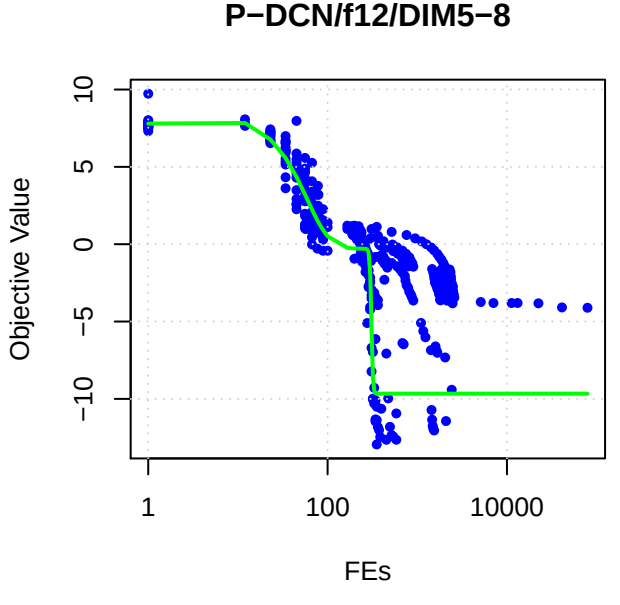
−2
−4


P−DCN/f12/DIM5−8
Objective Value
FEs
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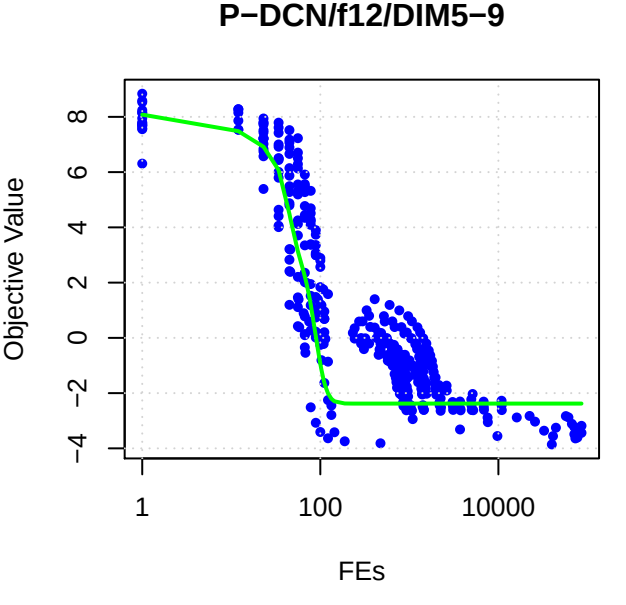
−5
−10


P−DCN/f12/DIM5−9
Objective Value
FEs
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10000
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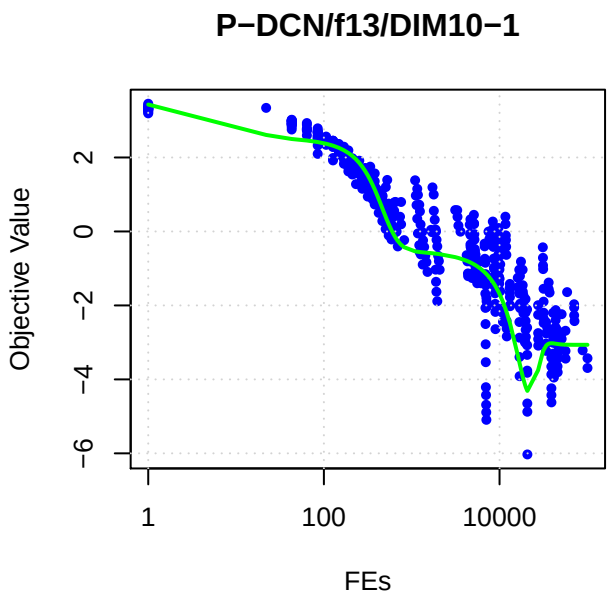
6
4
2
0
−2
−4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Objective Value
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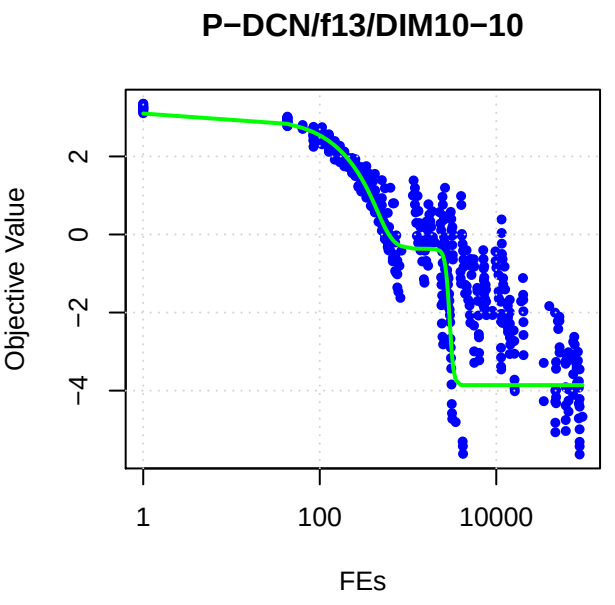
10000
FEs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Objective Value
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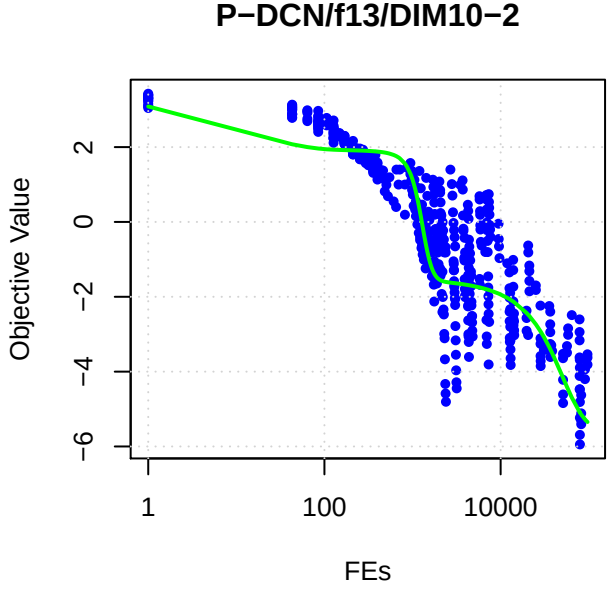
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Objective Value
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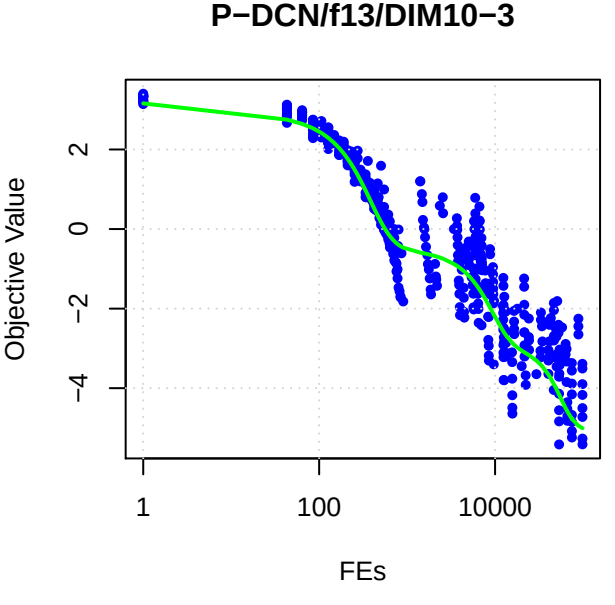
FEs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Objective Value
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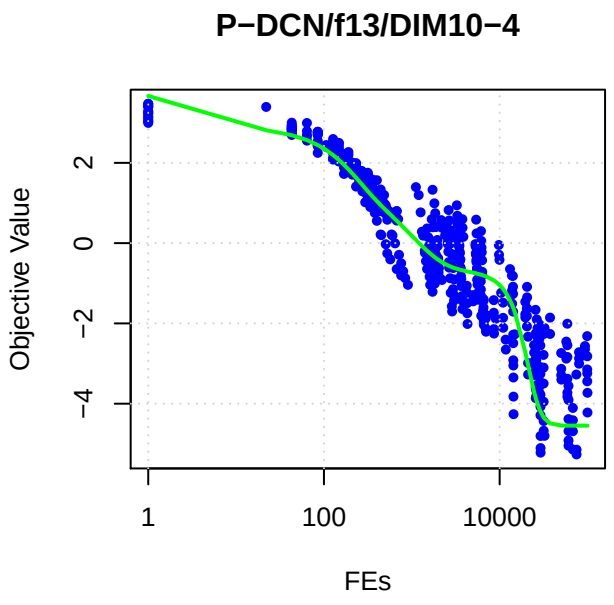
100
10000
FEs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Objective Value
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−4
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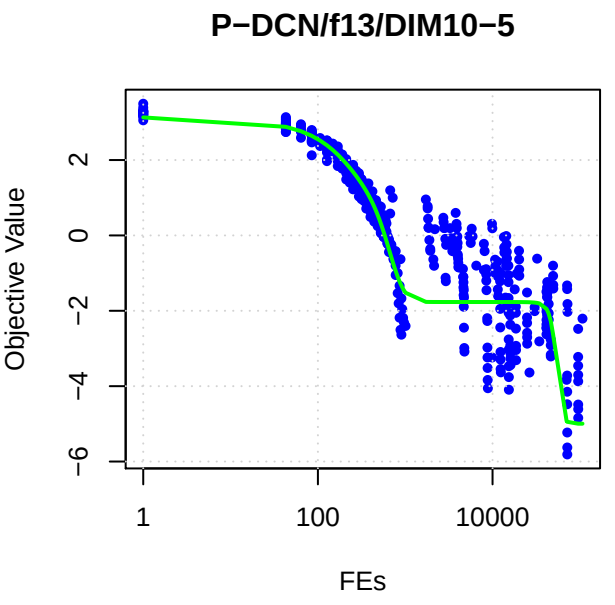
FEs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Objective Value
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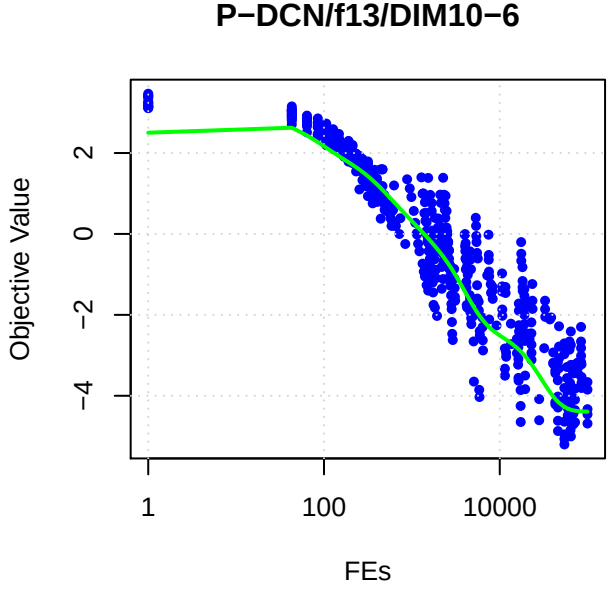
FEs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Objective Value
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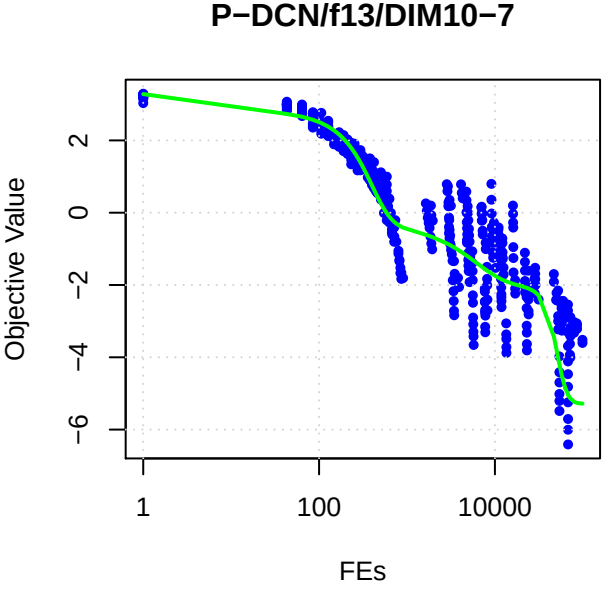
10000
FEs


P−DCN/f13/DIM10−7
Objective Value
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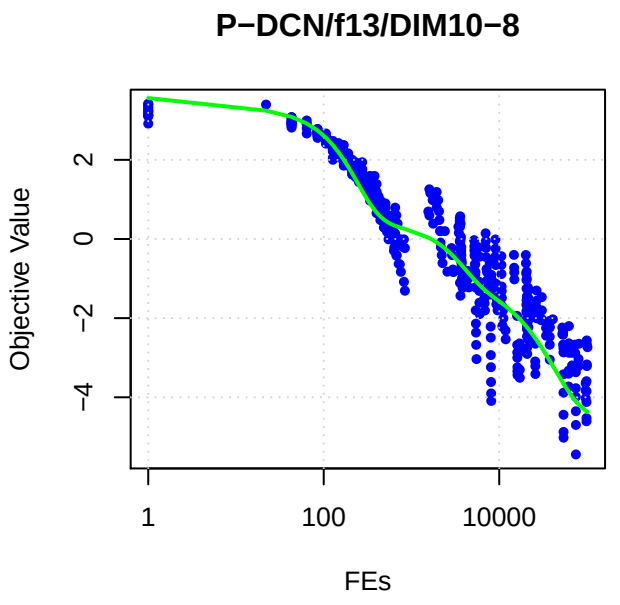
FEs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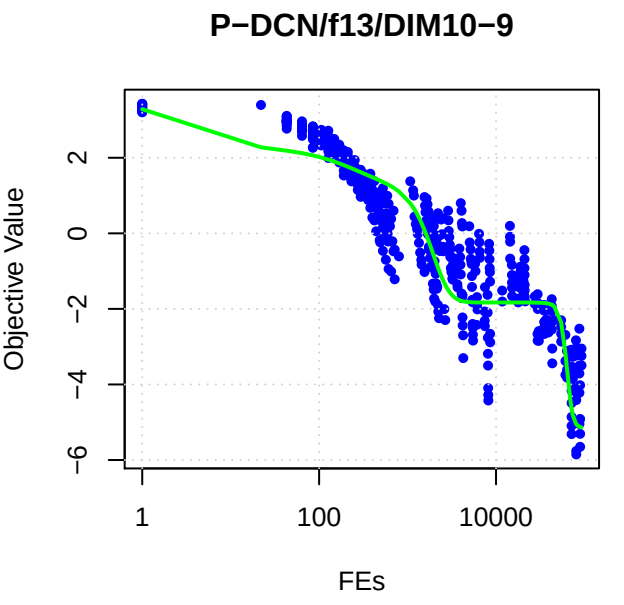
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Objective Value
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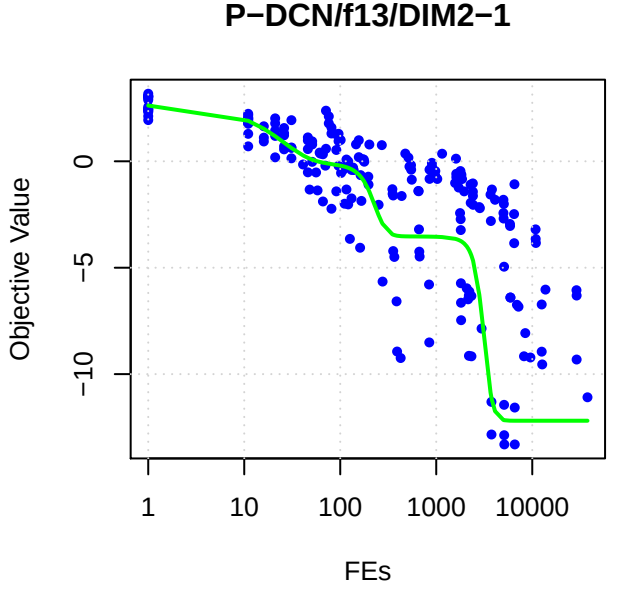
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Objective Value
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1000
10000
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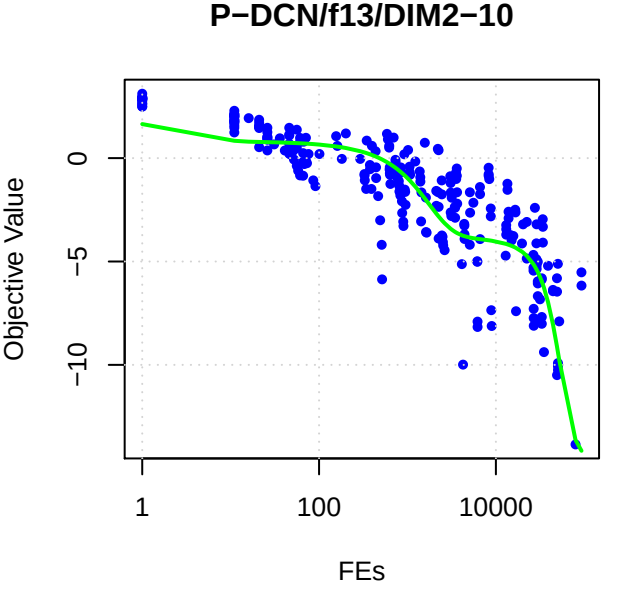
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Objective Value
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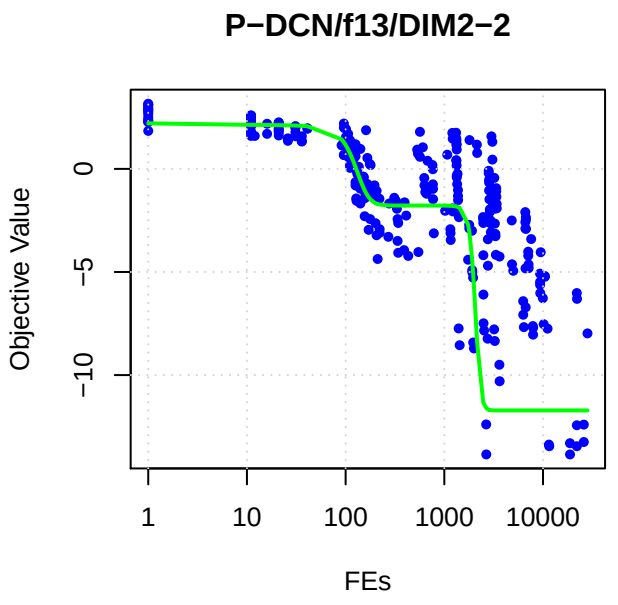
FEs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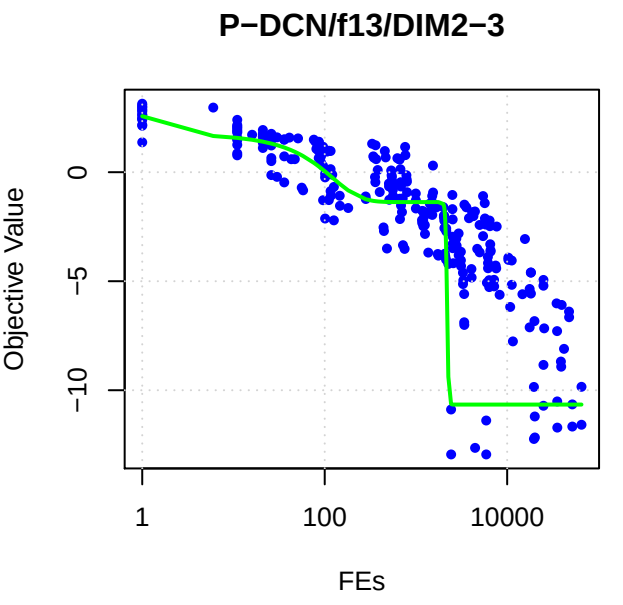
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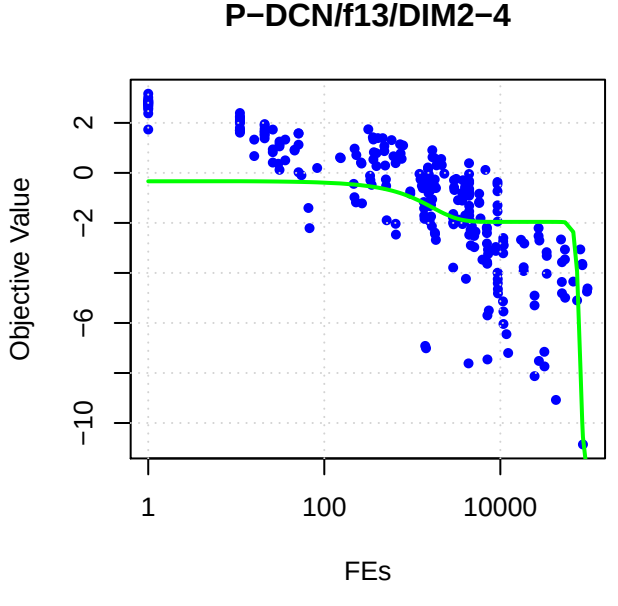
FEs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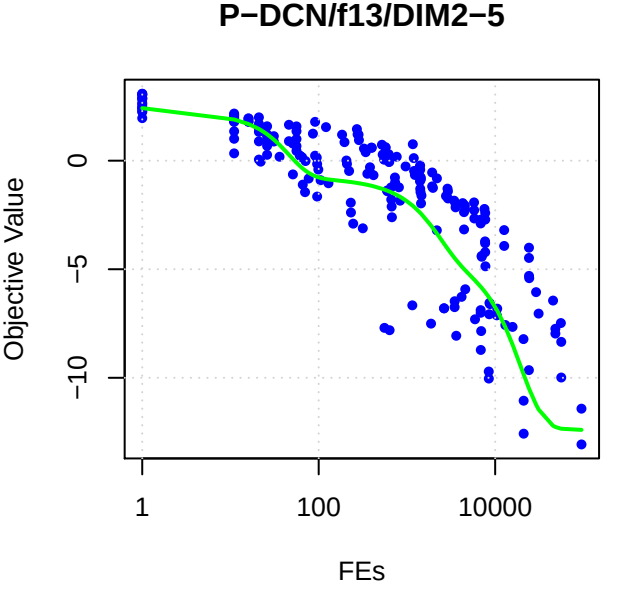
FEs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Objective Value
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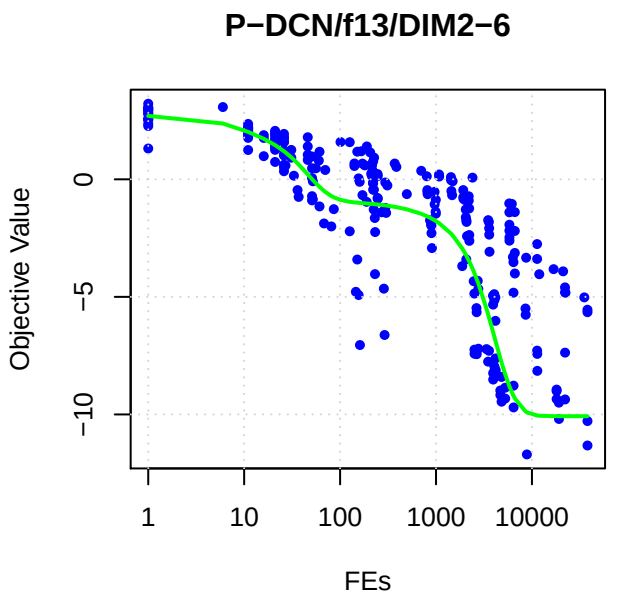
10000
FEs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Objective Value
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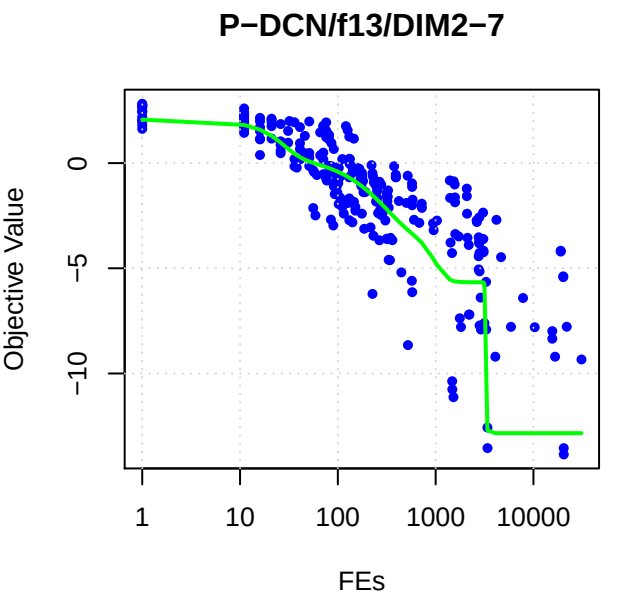
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Objective Value
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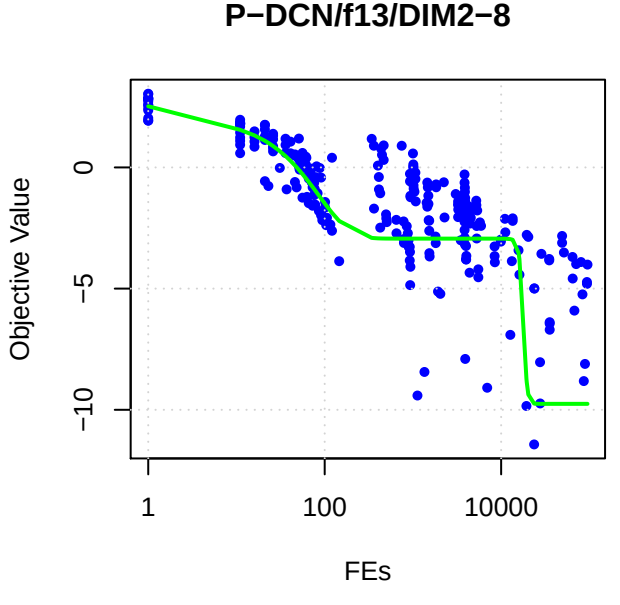
10000
FEs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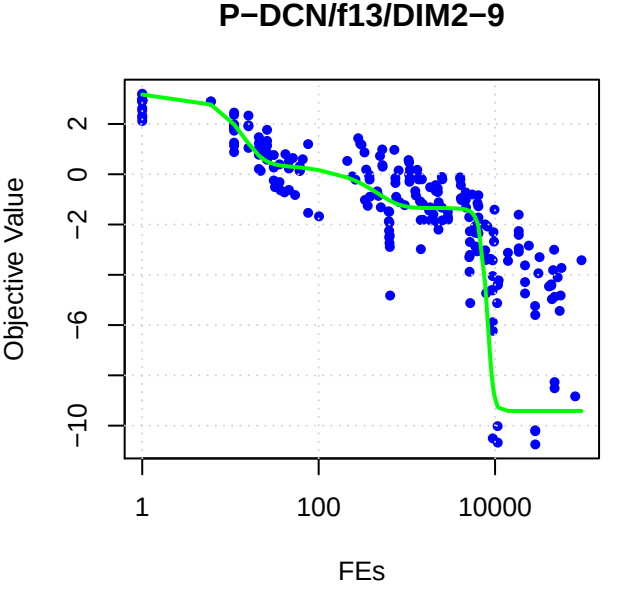
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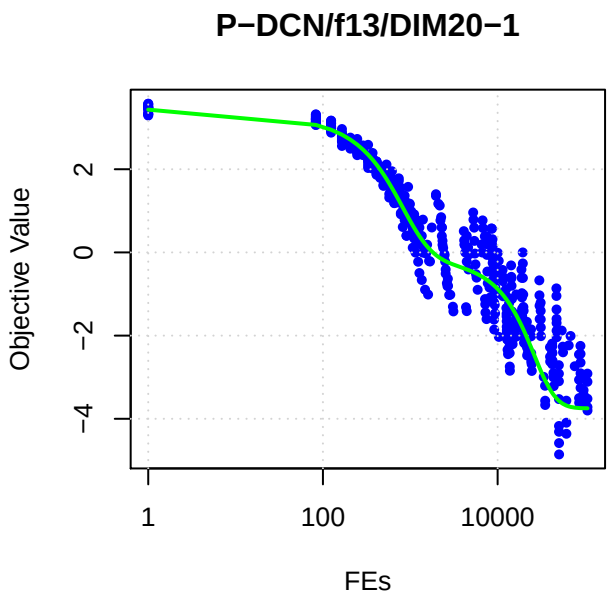
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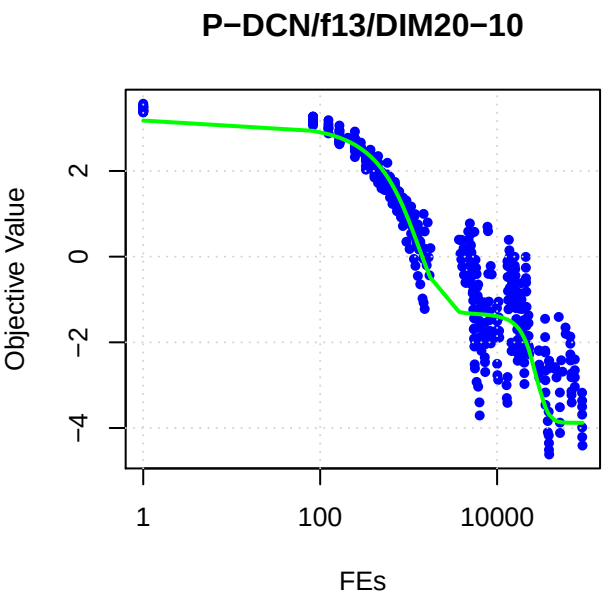
P−DCN/f13/DIM20−10
Objective Value
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−4
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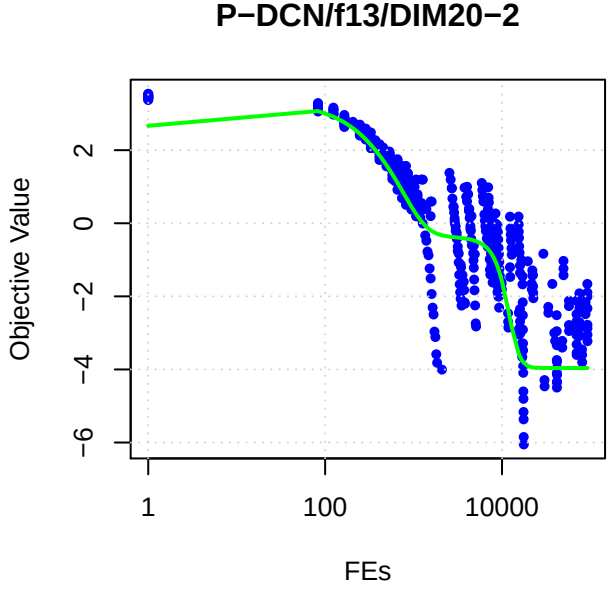
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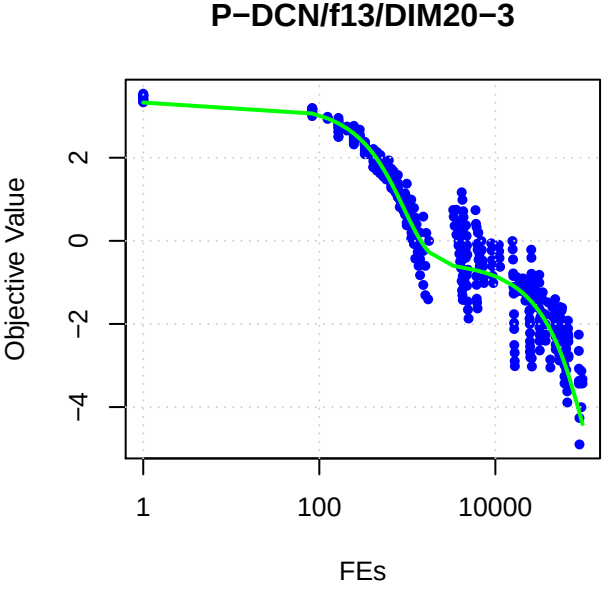
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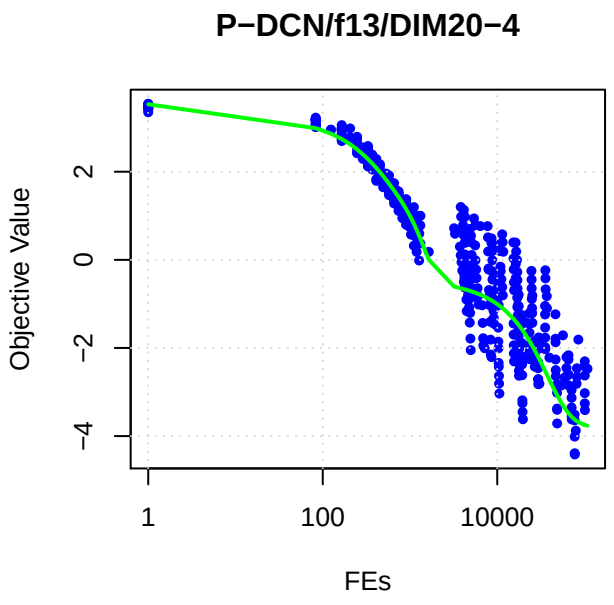
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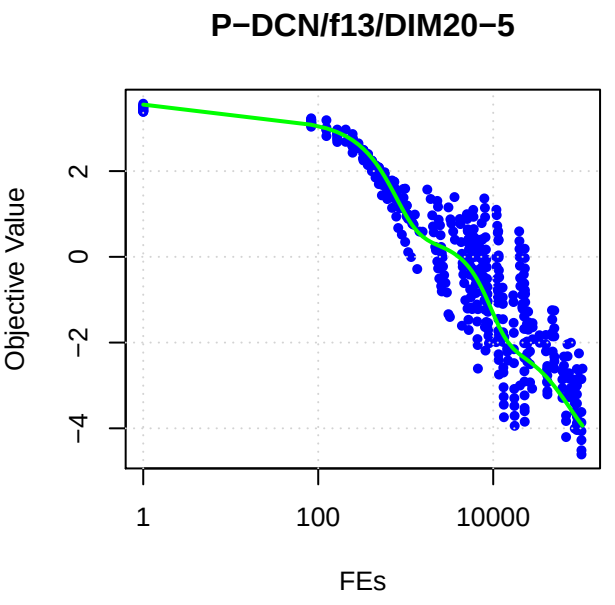
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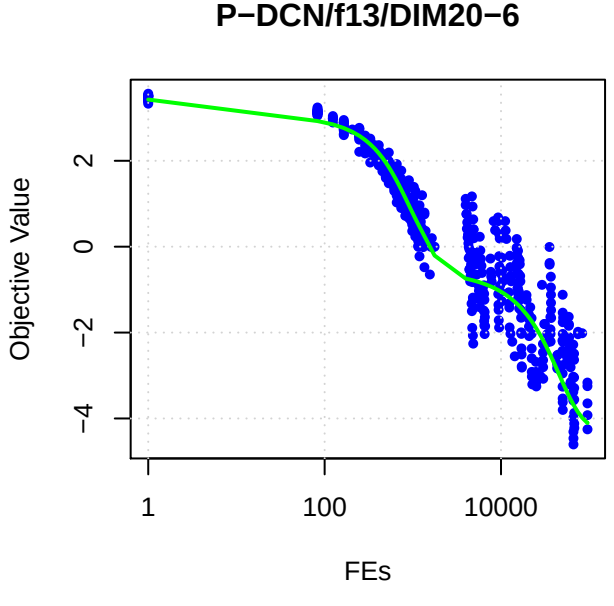
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Objective Value
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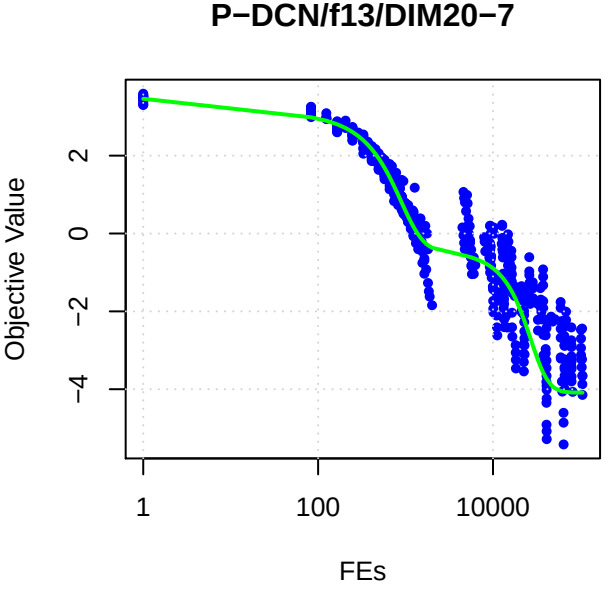
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Objective Value
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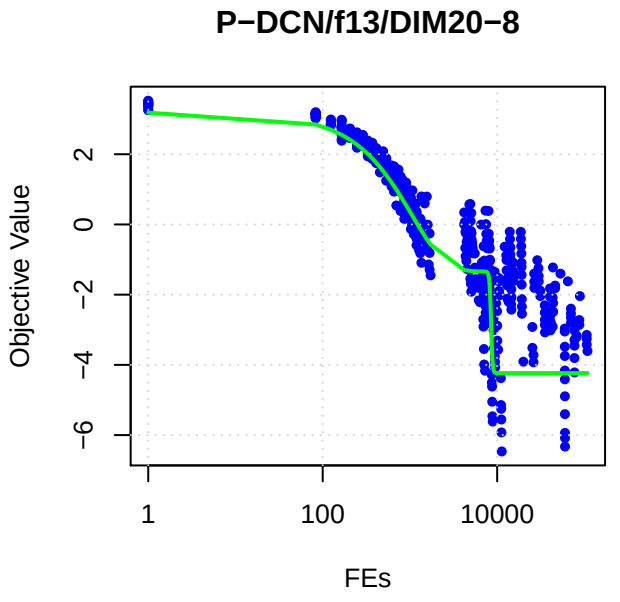
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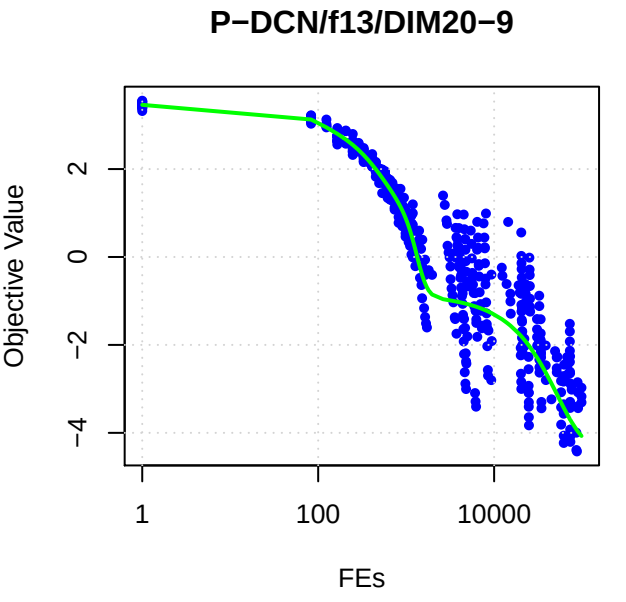
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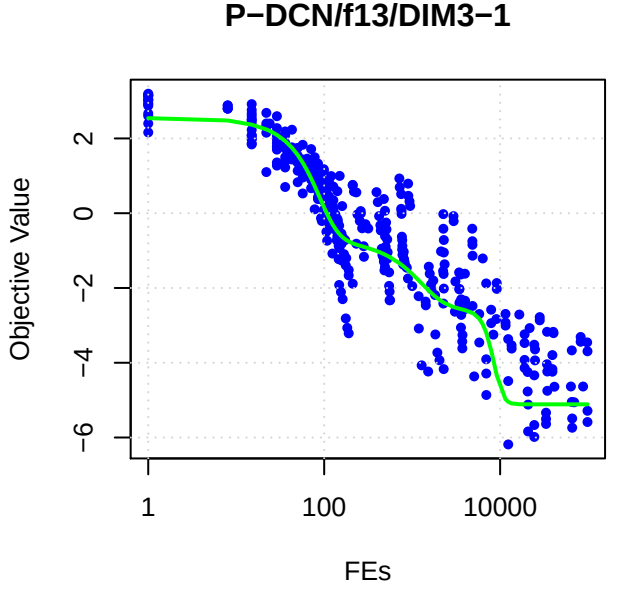
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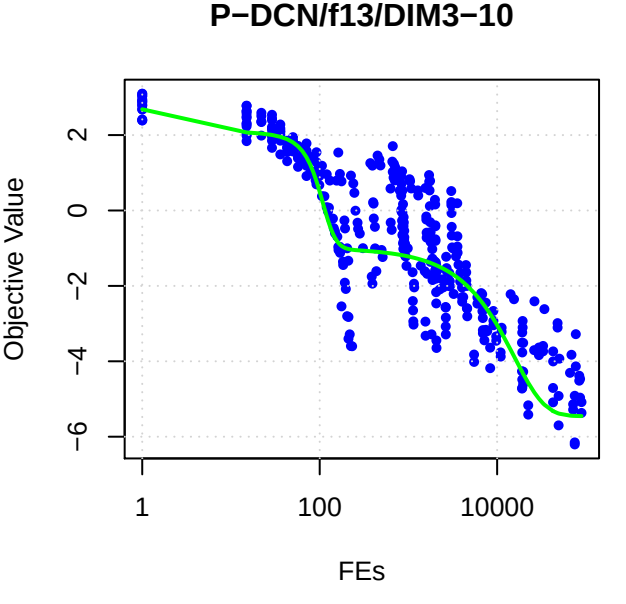
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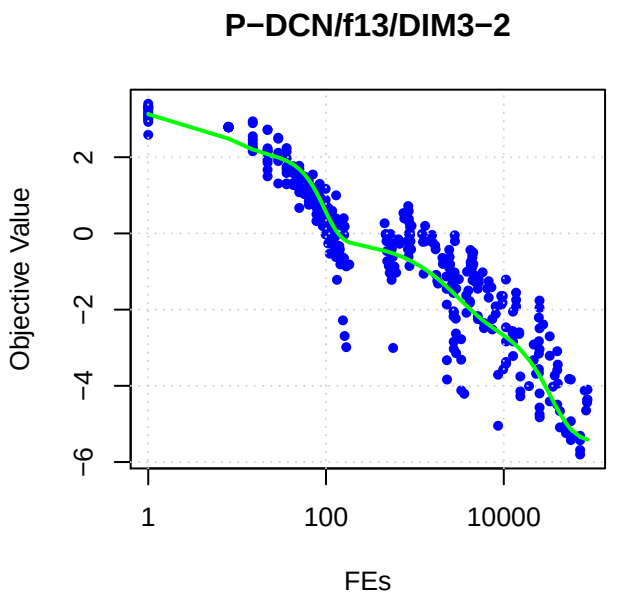
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Objective Value
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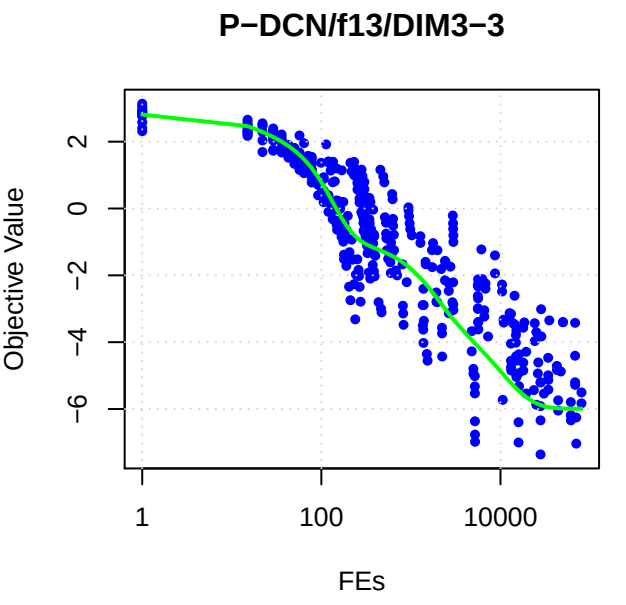
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Objective Value
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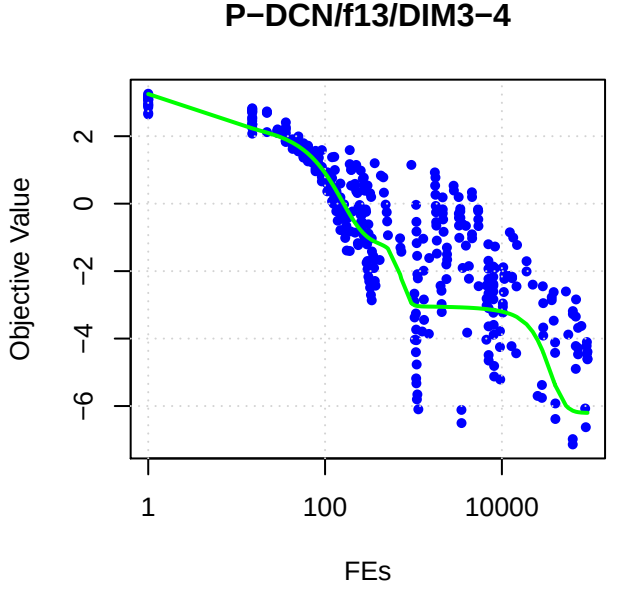
FEs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Objective Value
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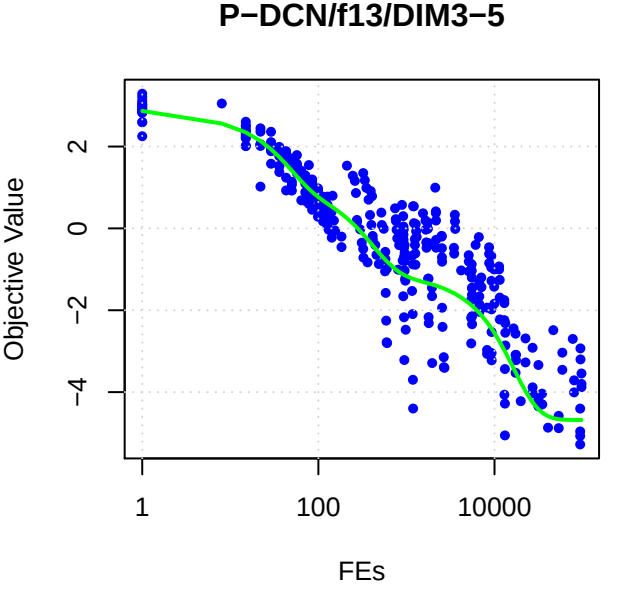
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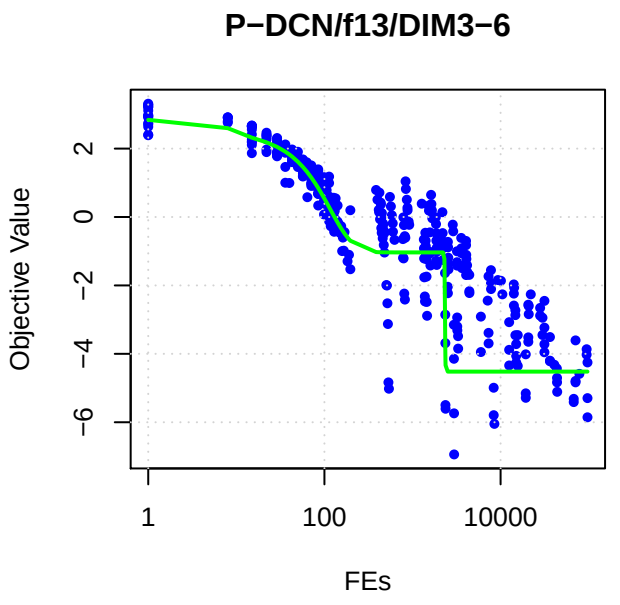
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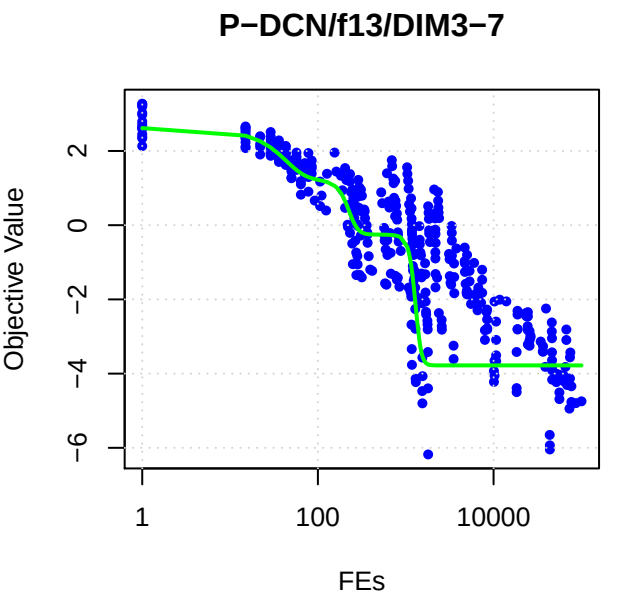
FEs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Objective Value
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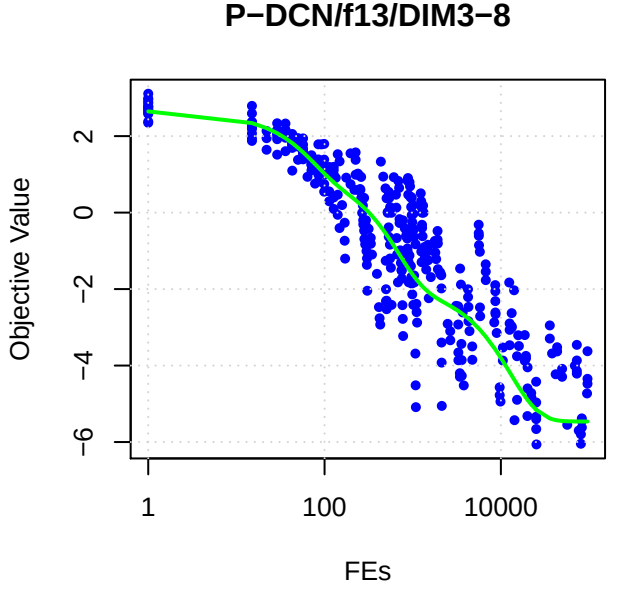
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Objective Value
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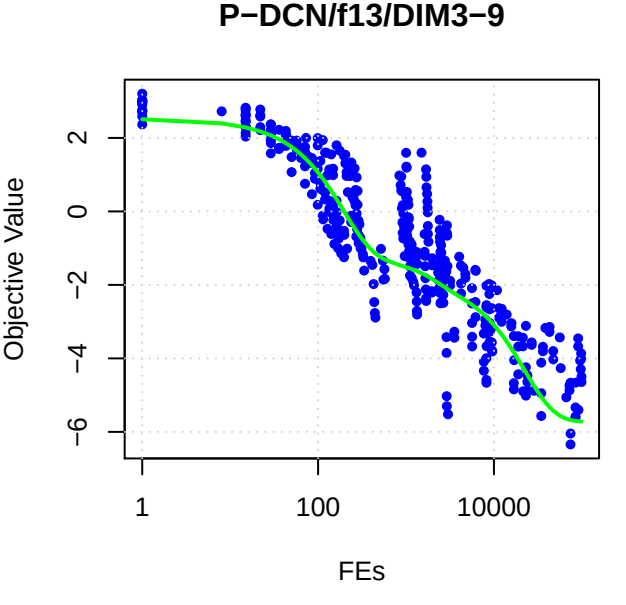
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Objective Value
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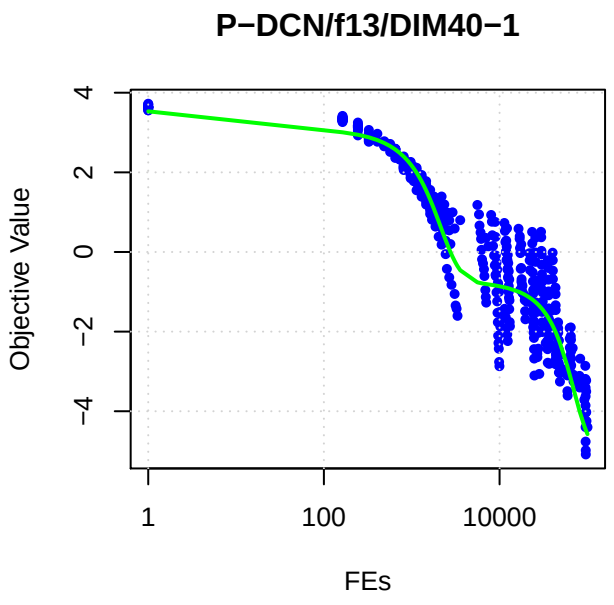
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Objective Value
FEs
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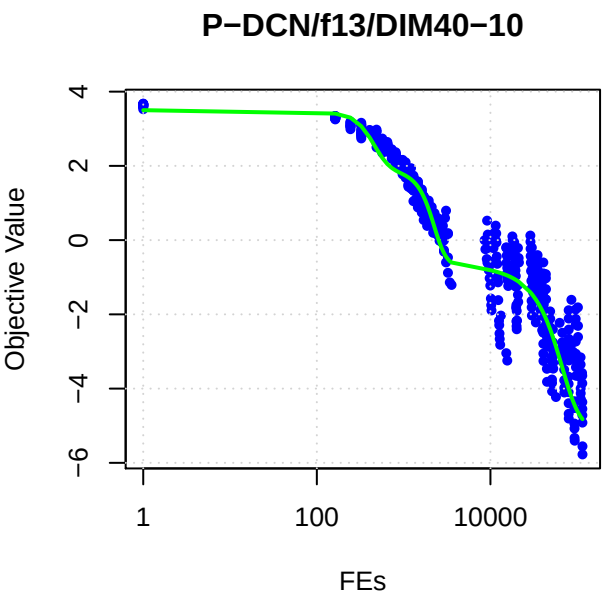
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Objective Value
FEs
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−6
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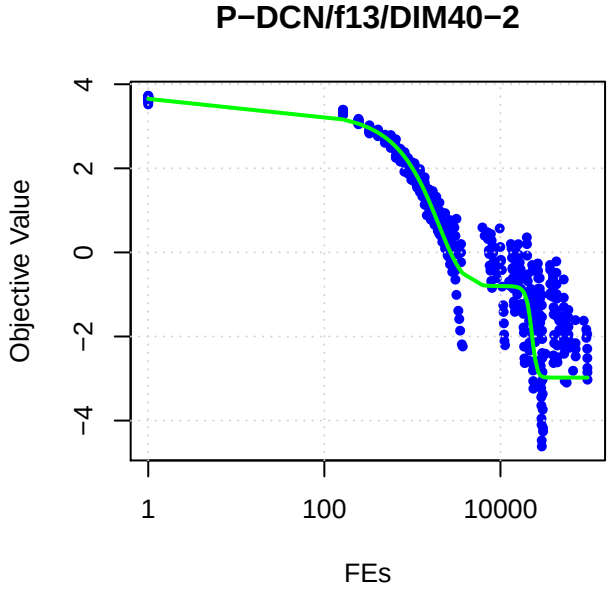
P−DCN/f13/DIM40−2
Objective Value
FEs
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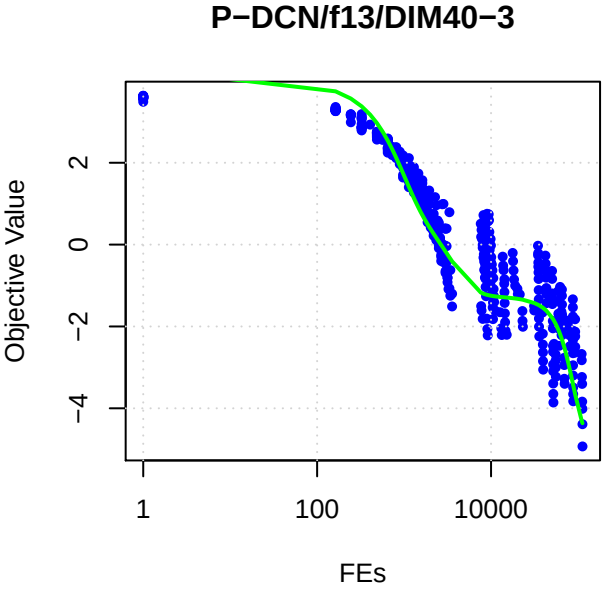
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Objective Value
FEs
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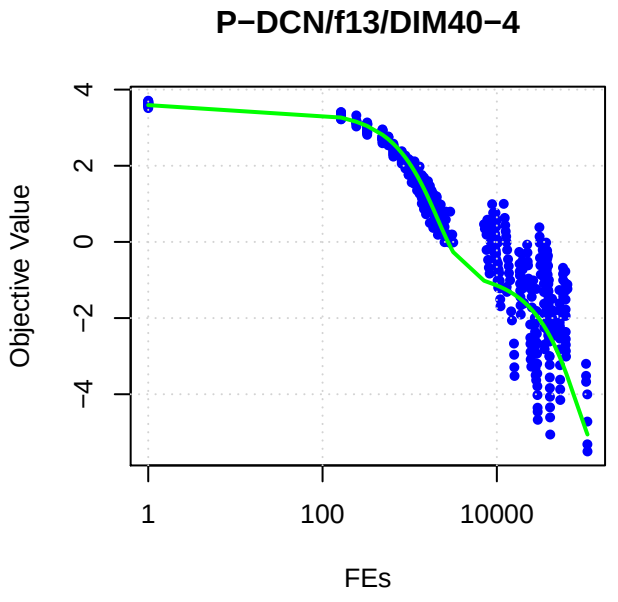
P−DCN/f13/DIM40−4
Objective Value
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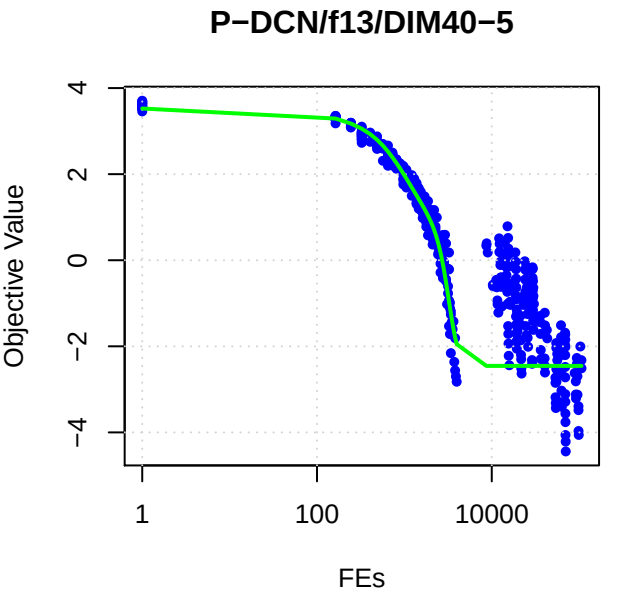
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Objective Value
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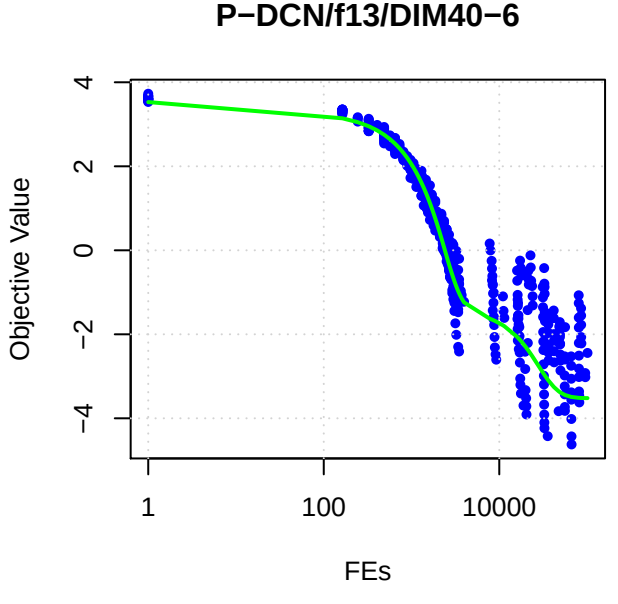
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Objective Value
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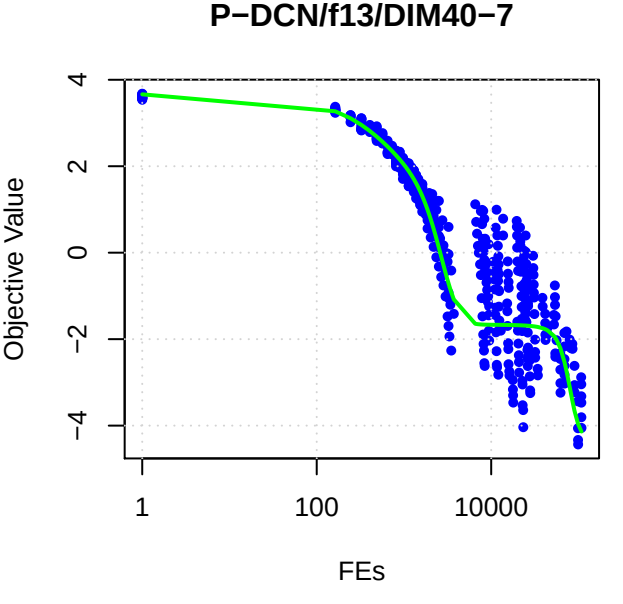
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Objective Value
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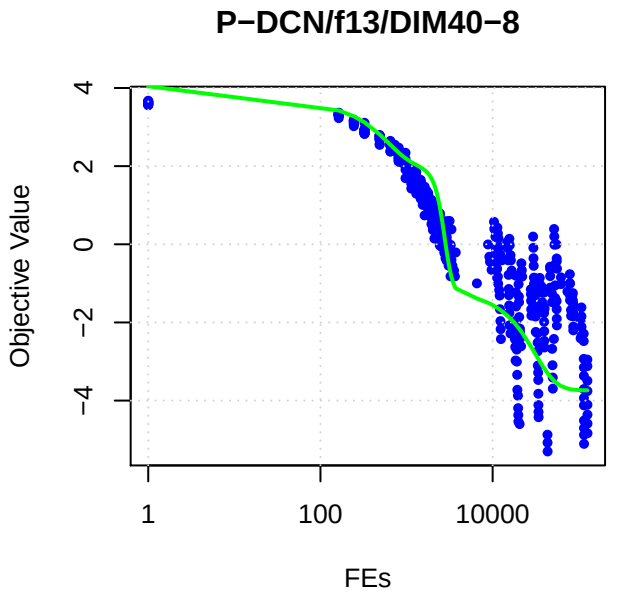
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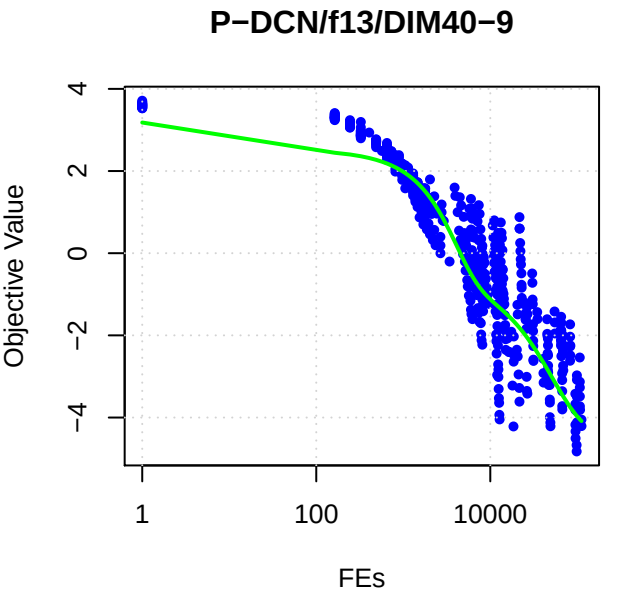
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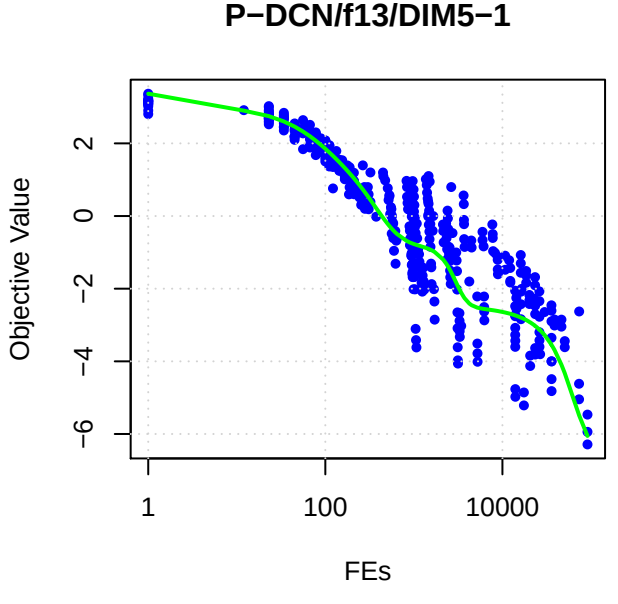
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Objective Value
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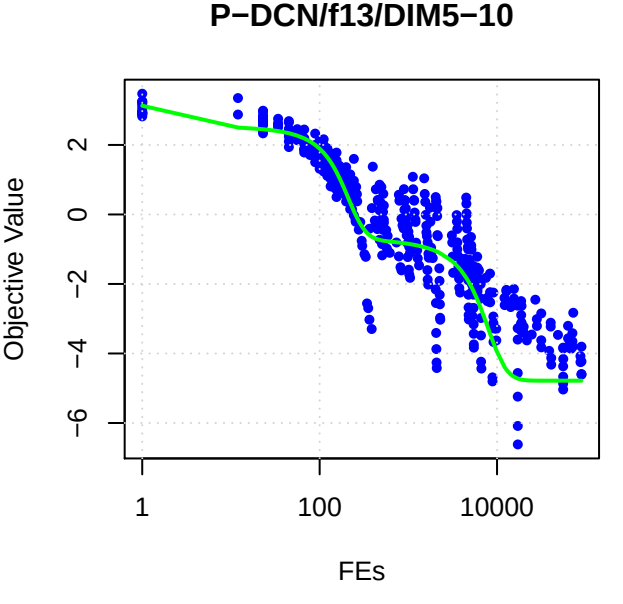
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Objective Value
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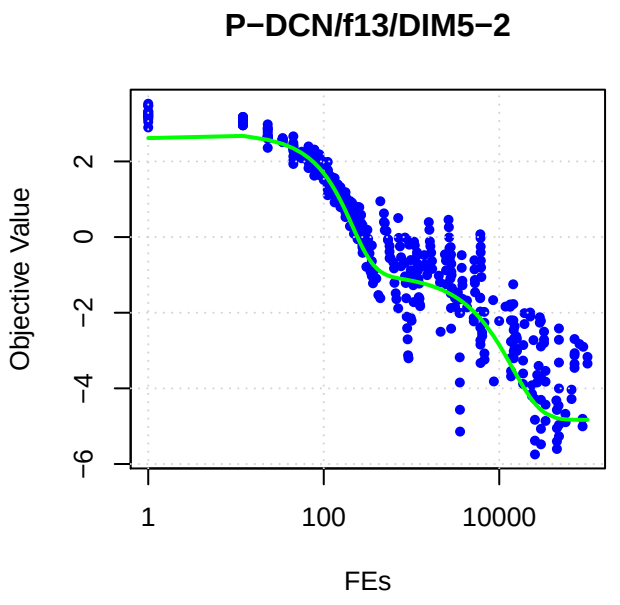
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Objective Value
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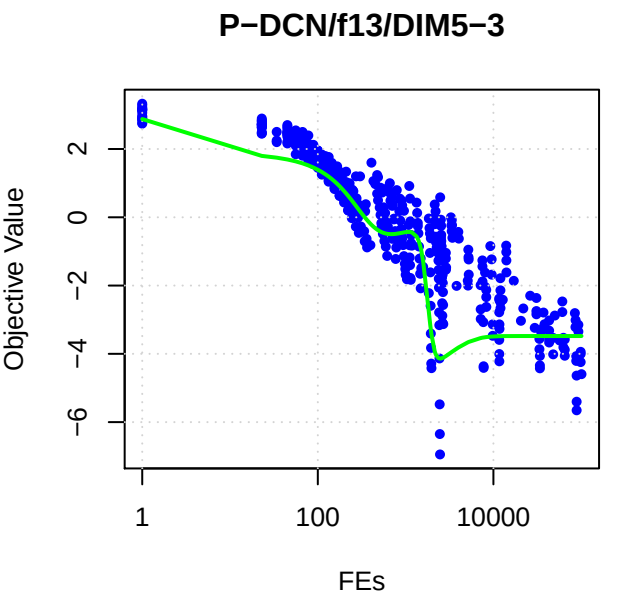
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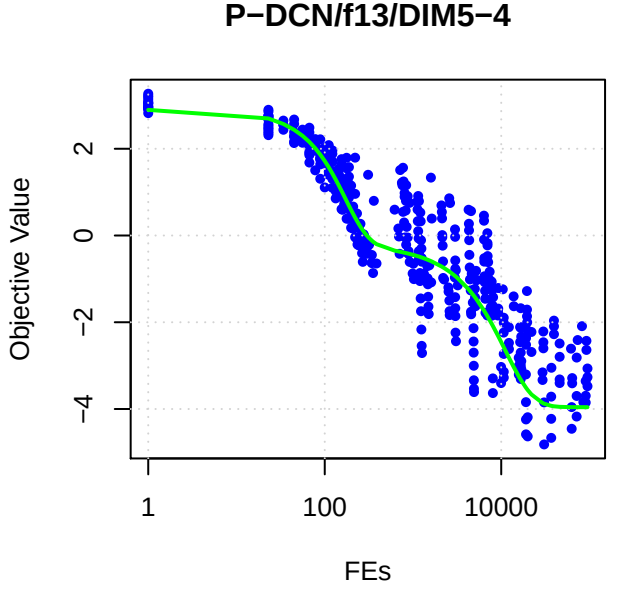
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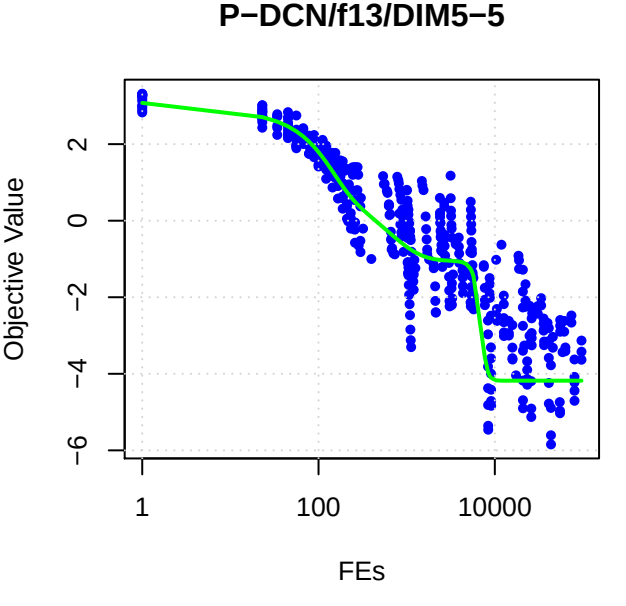
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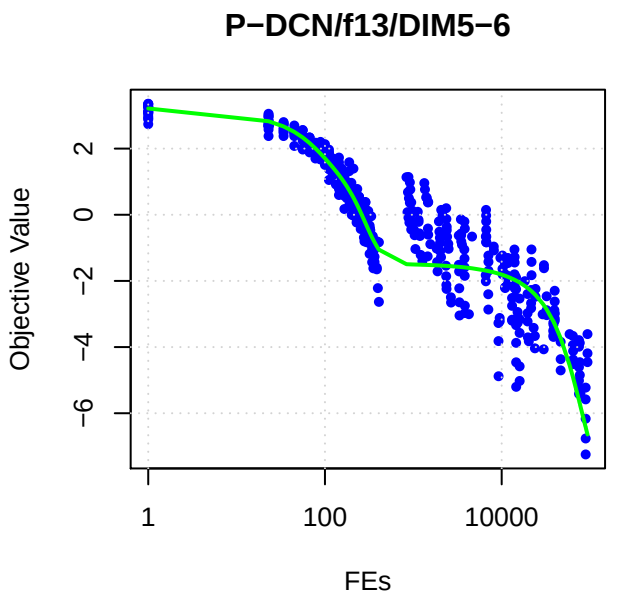
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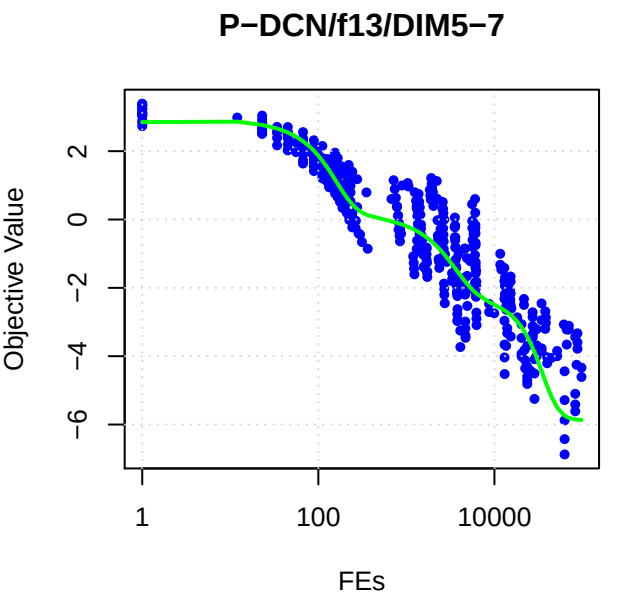
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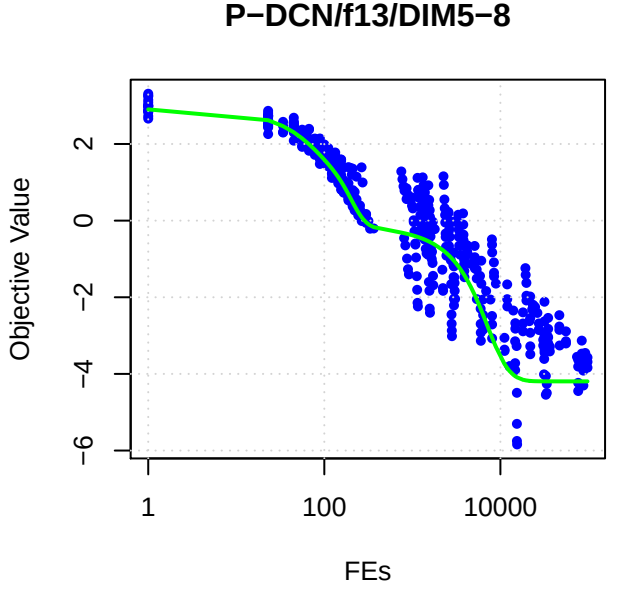
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Objective Value
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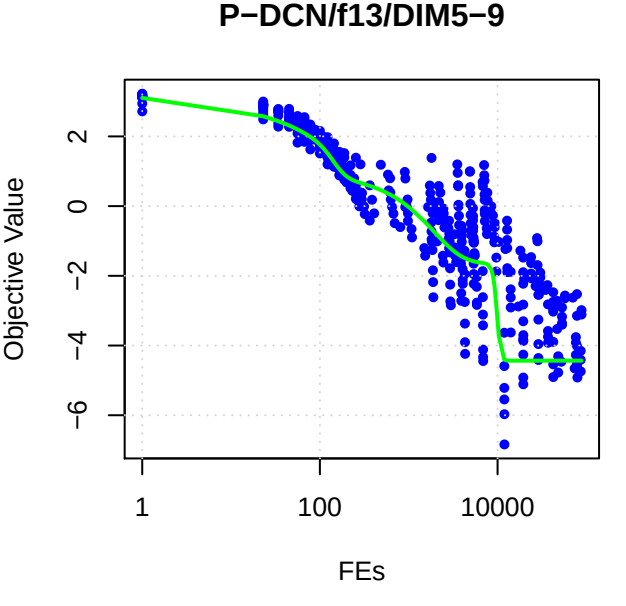
P−DCN/f13/DIM5−9
Objective Value
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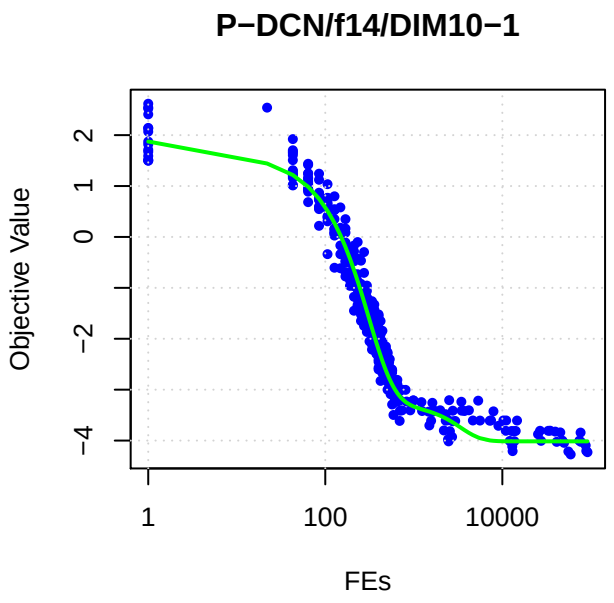
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Objective Value
FEs
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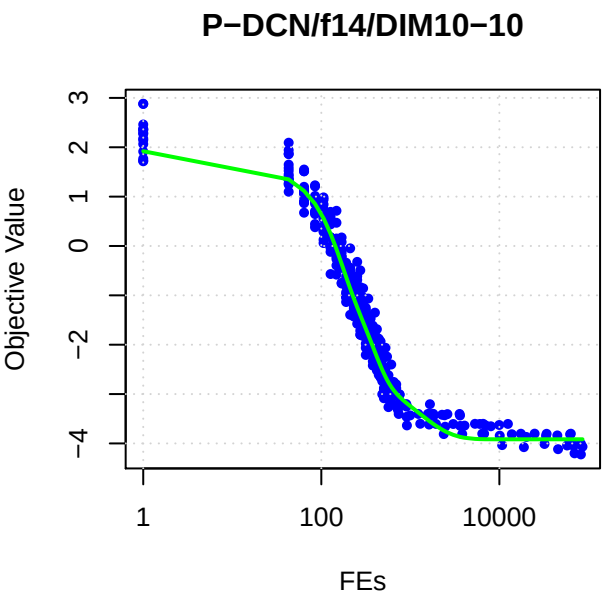
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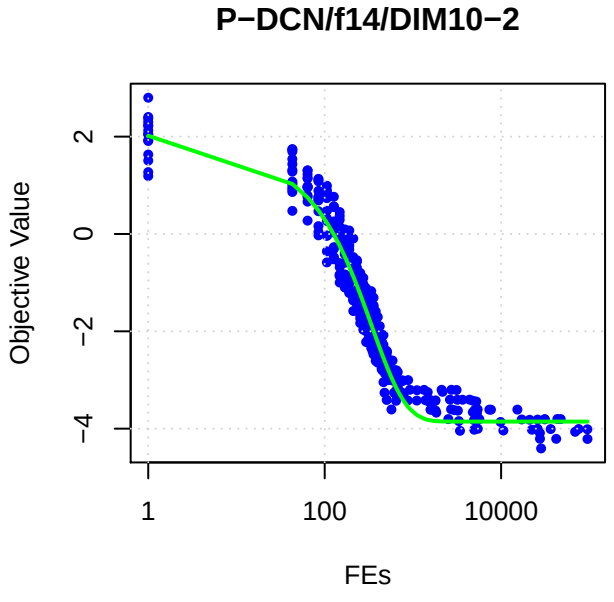
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Objective Value
FEs
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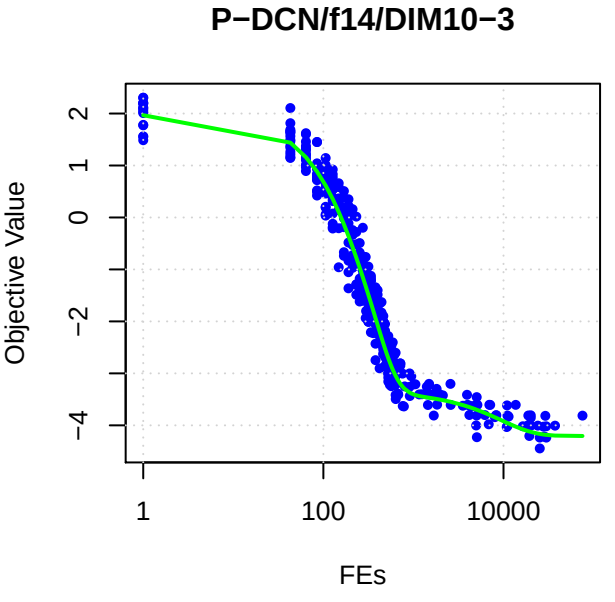
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Objective Value
FEs
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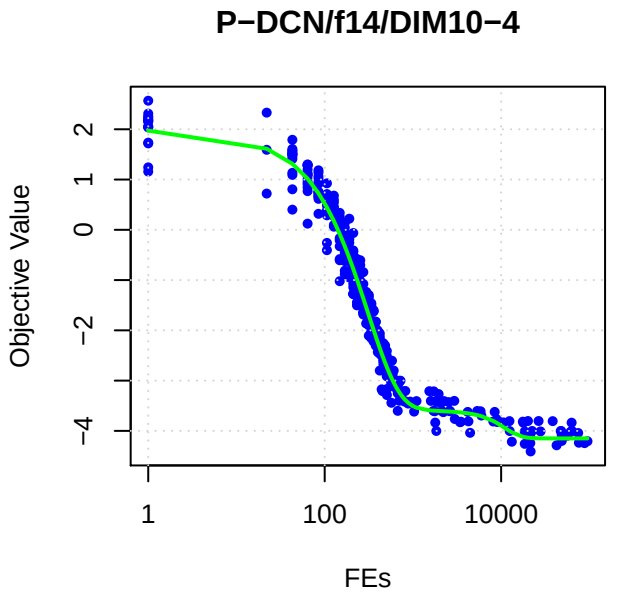
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Objective Value
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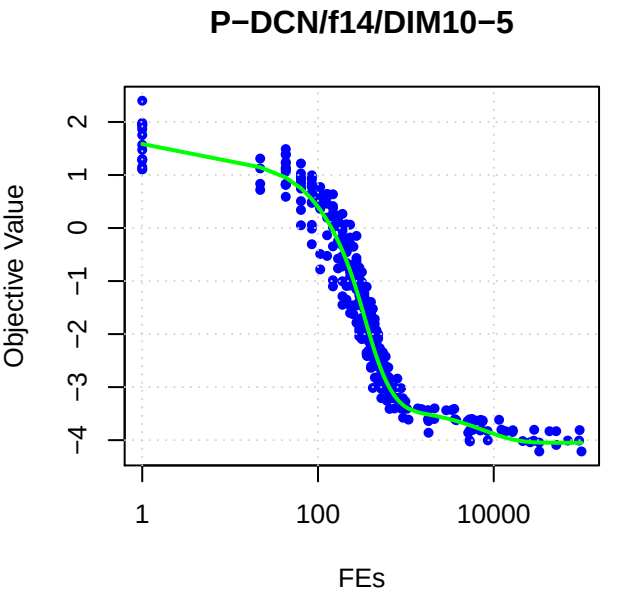
P−DCN/f14/DIM10−5
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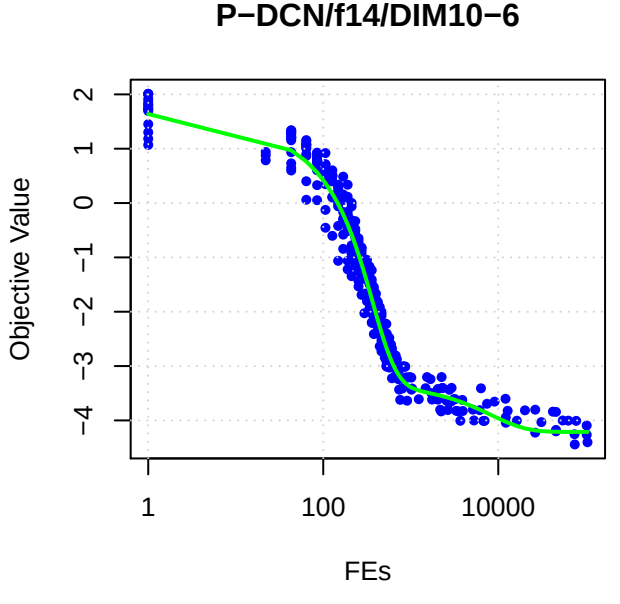
P−DCN/f14/DIM10−6
Objective Value
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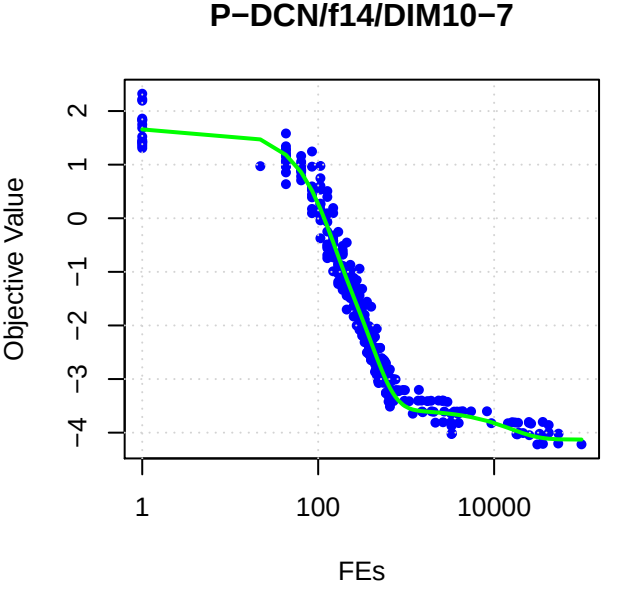
P−DCN/f14/DIM10−7
Objective Value
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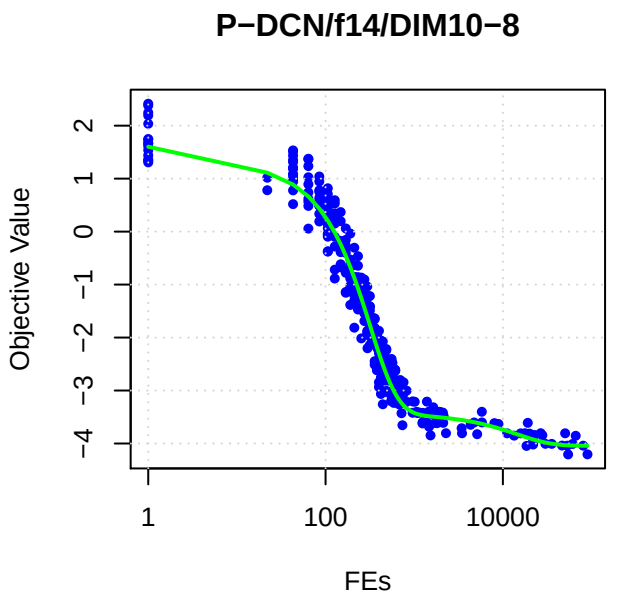
P−DCN/f14/DIM10−8
Objective Value
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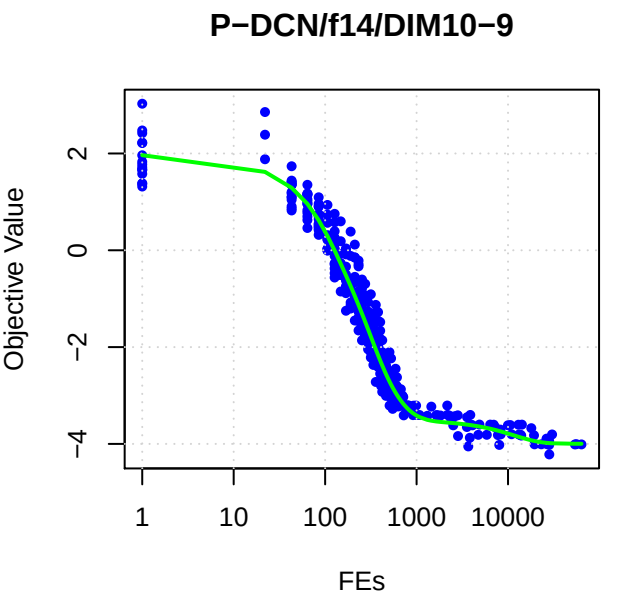
P−DCN/f14/DIM10−9
Objective Value
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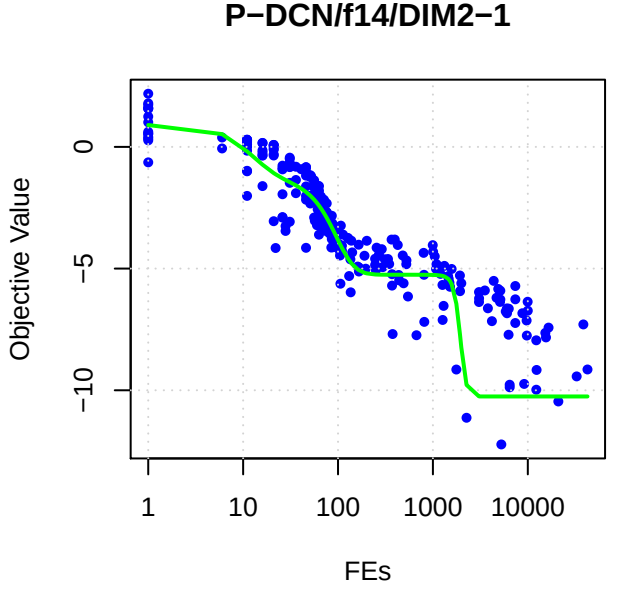
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Objective Value
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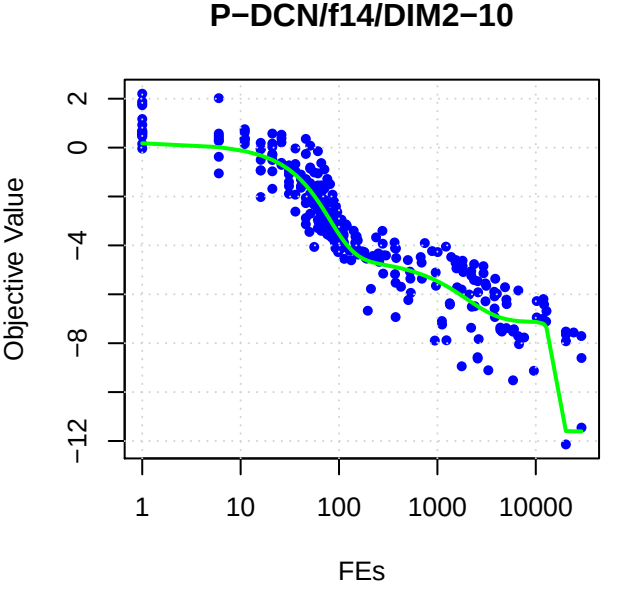
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Objective Value
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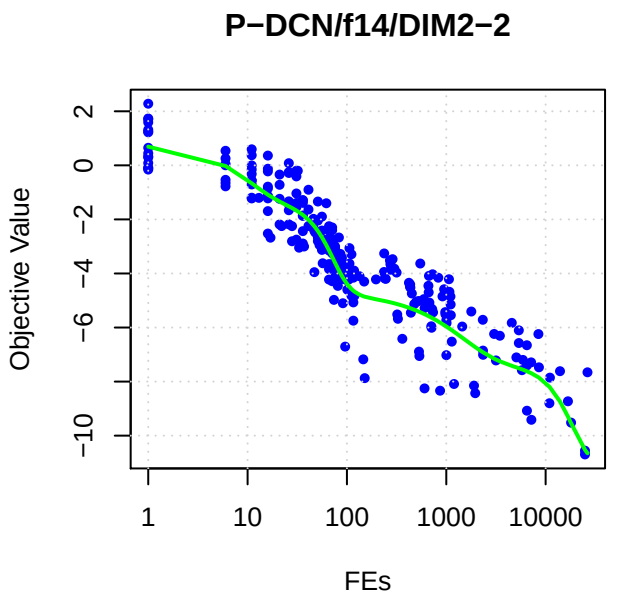
P−DCN/f14/DIM2−2
Objective Value
FEs
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1000
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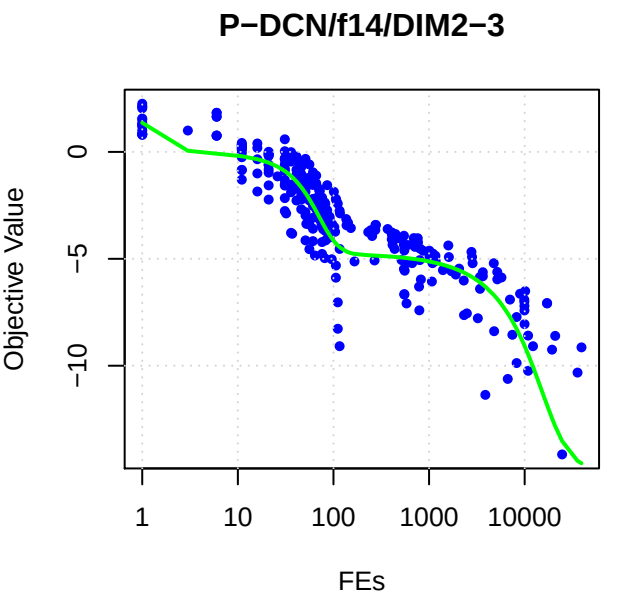
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Objective Value
FEs
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1000
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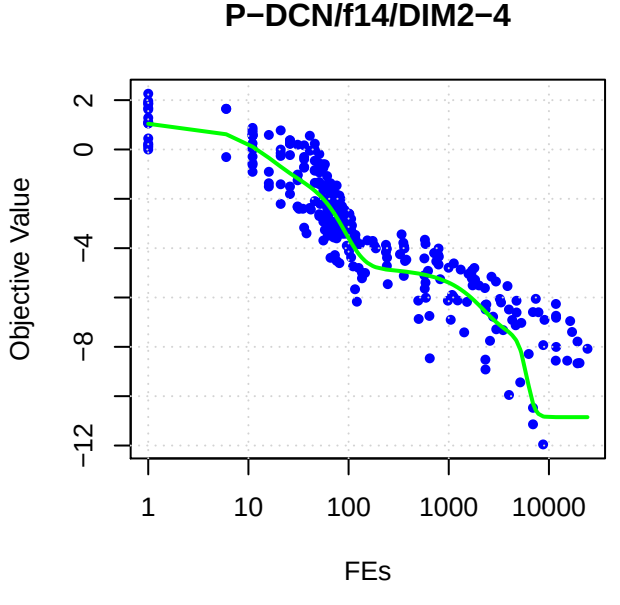
P−DCN/f14/DIM2−4
Objective Value
FEs
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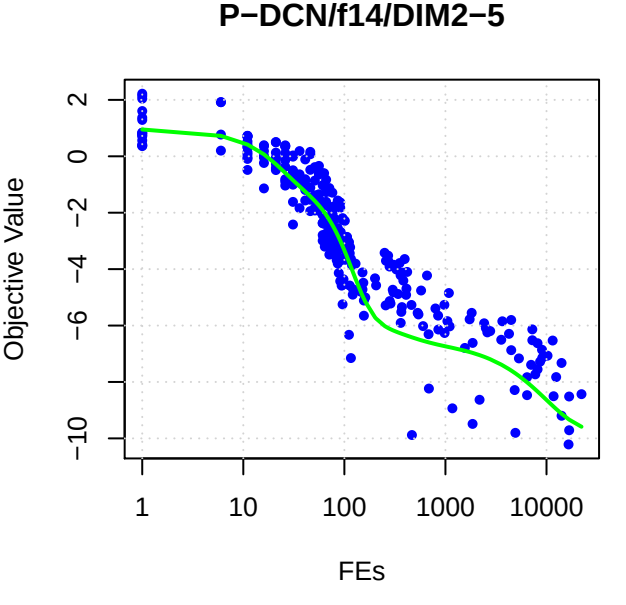
P−DCN/f14/DIM2−5
Objective Value
FEs
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−6
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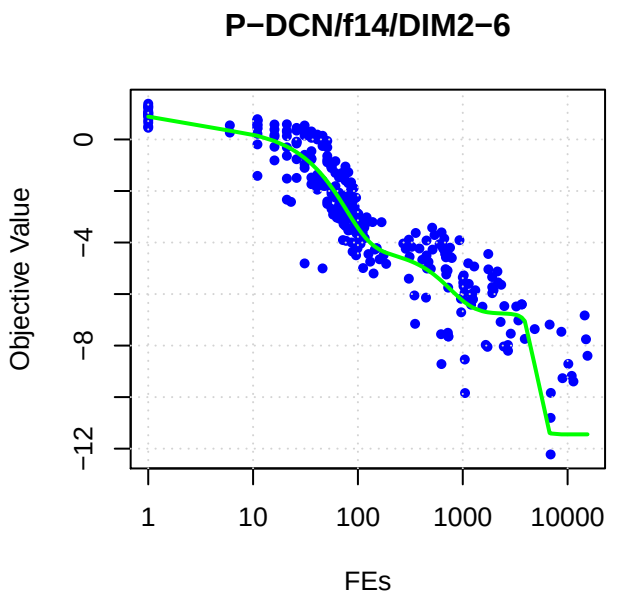
P−DCN/f14/DIM2−6
Objective Value
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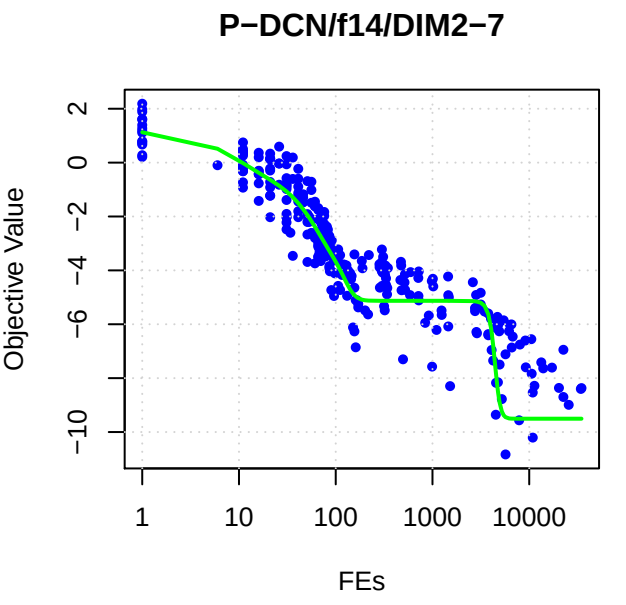
100
1000
10000
FEs


P−DCN/f14/DIM2−7
Objective Value
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−10
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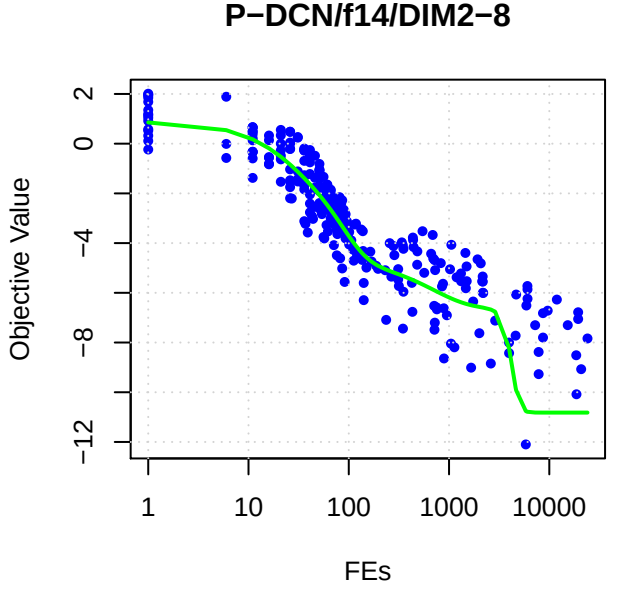
1000
10000
FEs


P−DCN/f14/DIM2−8
Objective Value
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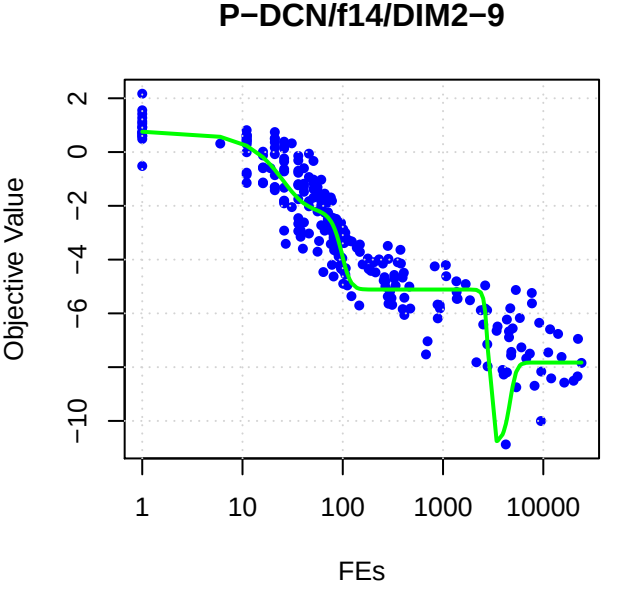
1000
10000
FEs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Objective Value
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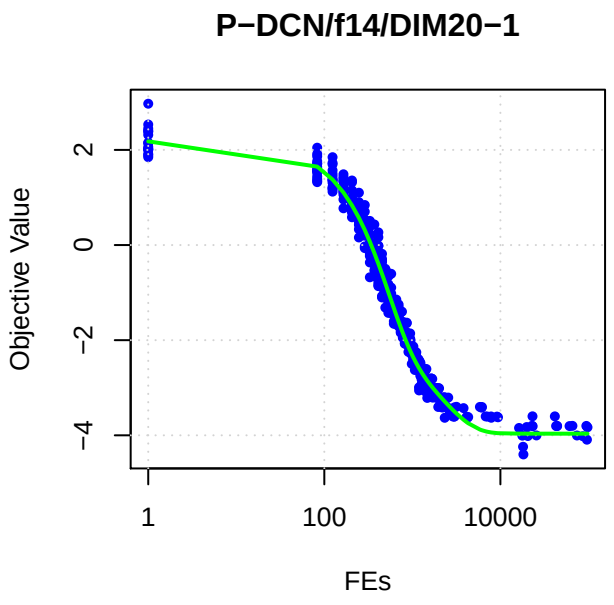
P−DCN/f14/DIM20−1
Objective Value
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−4
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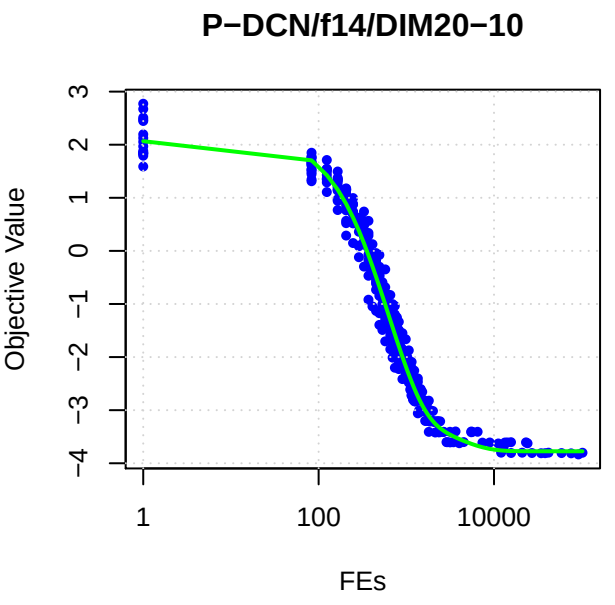
10000
FEs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Objective Value
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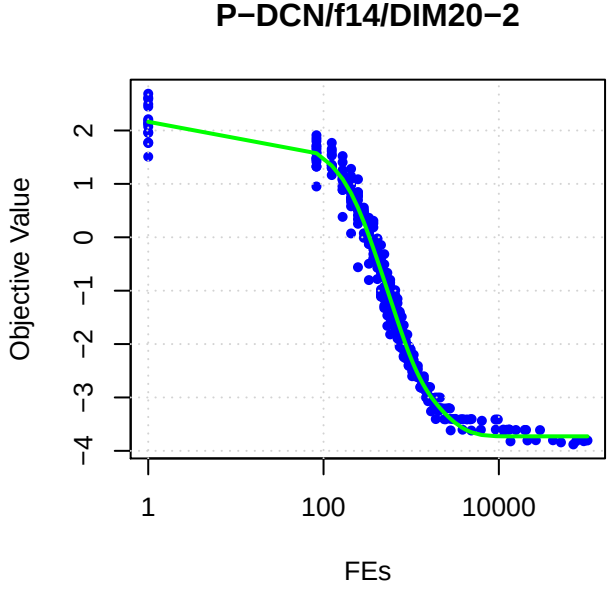
FEs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Objective Value
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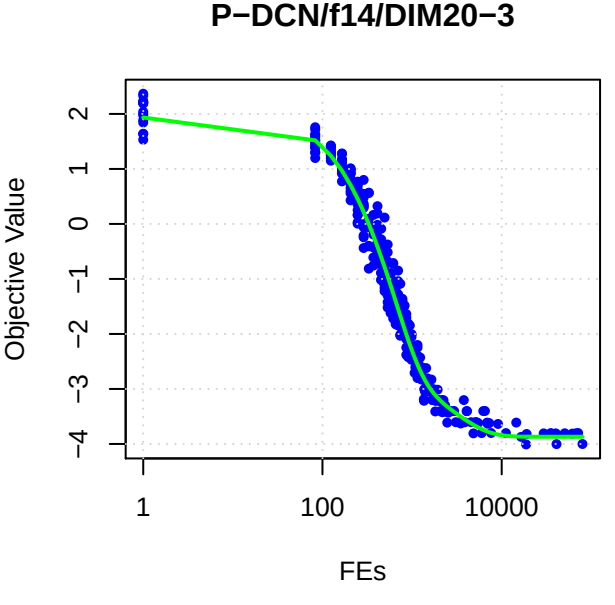
FEs


P−DCN/f14/DIM20−3
Objective Value
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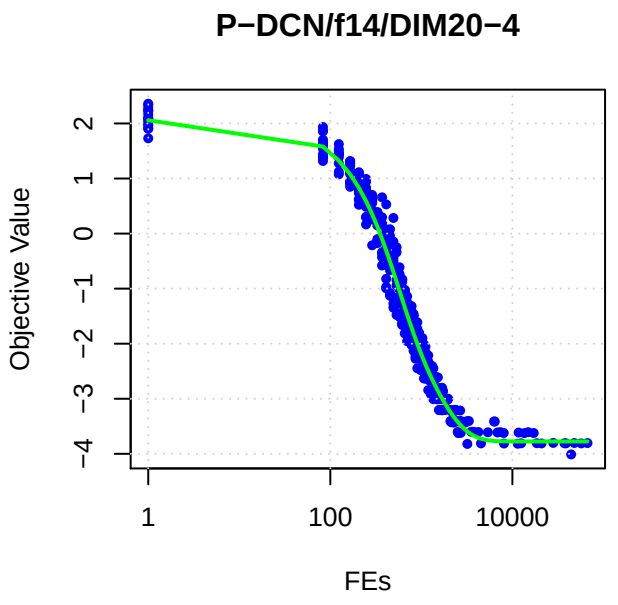
FEs


P−DCN/f14/DIM20−4
Objective Value
FEs
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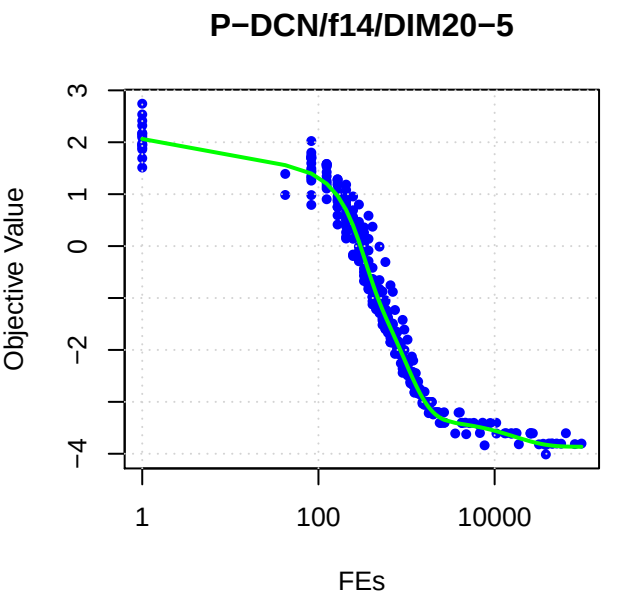
P−DCN/f14/DIM20−5
Objective Value
FEs
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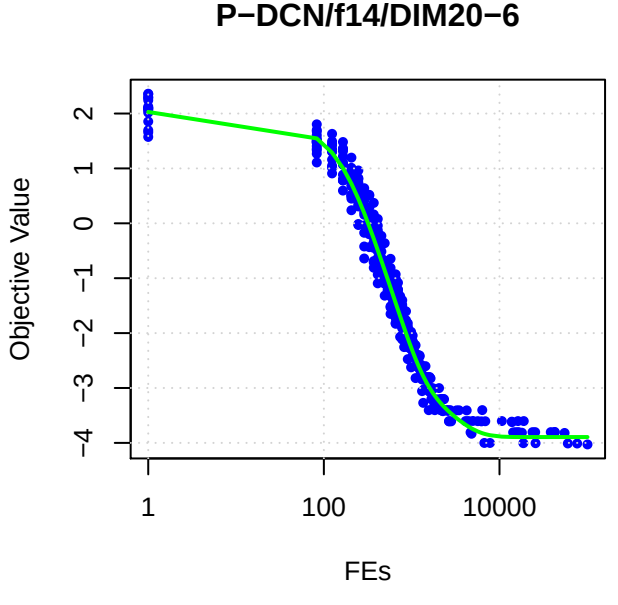
P−DCN/f14/DIM20−6
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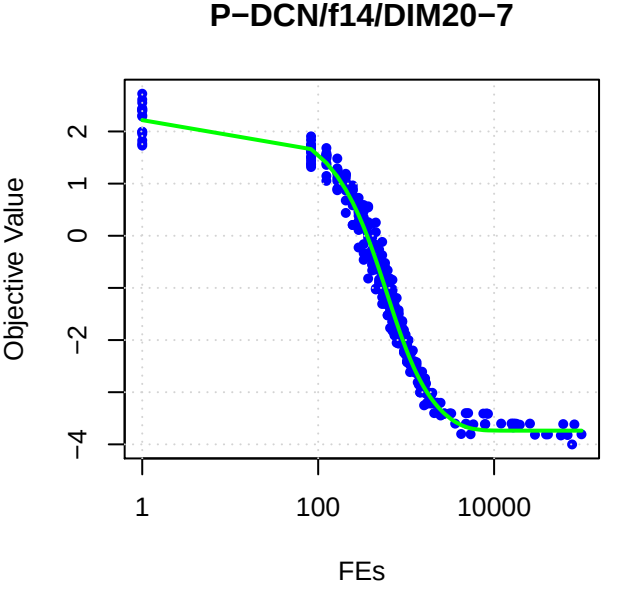
P−DCN/f14/DIM20−7
Objective Value
FEs
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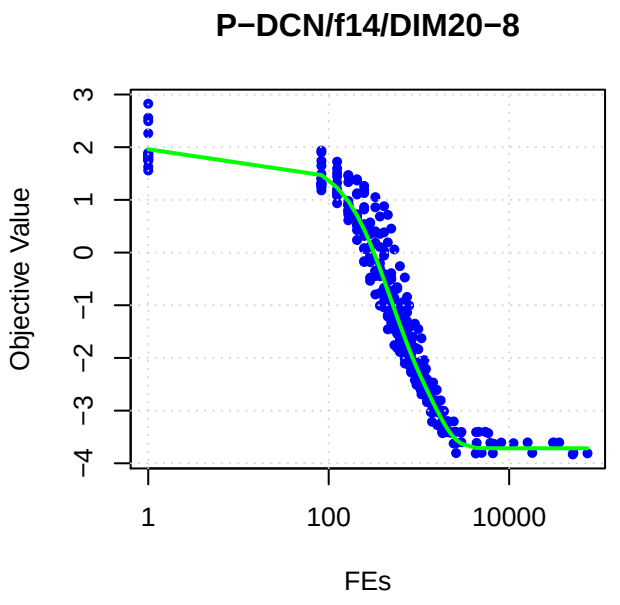
P−DCN/f14/DIM20−8
Objective Value
FEs
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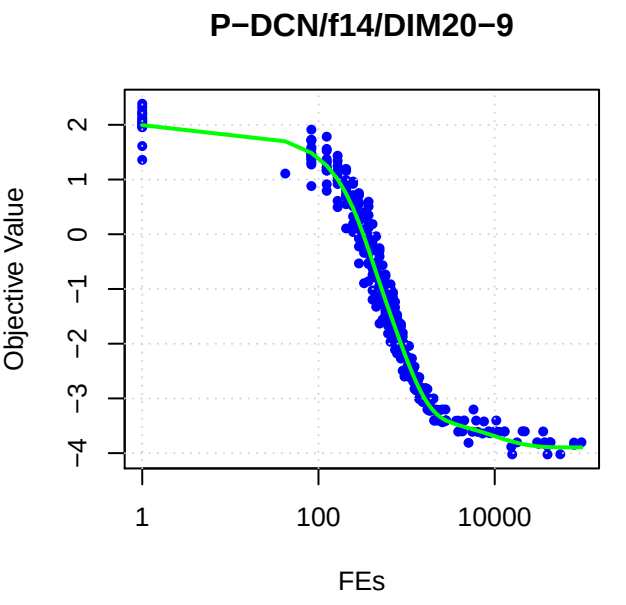
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FEs
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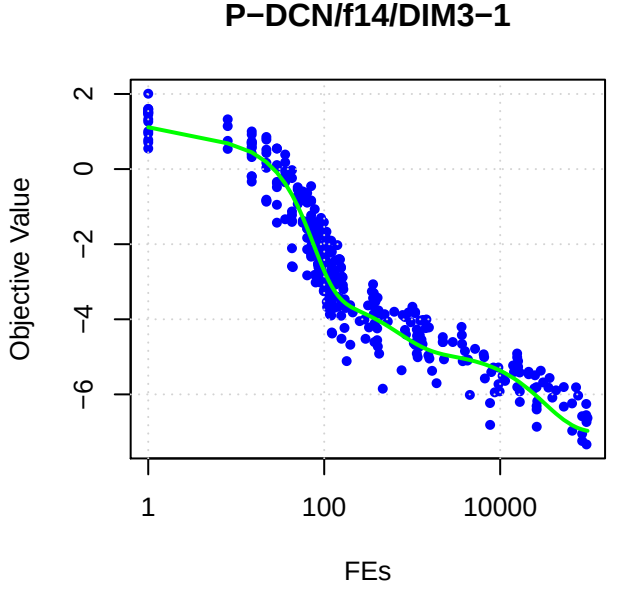
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Objective Value
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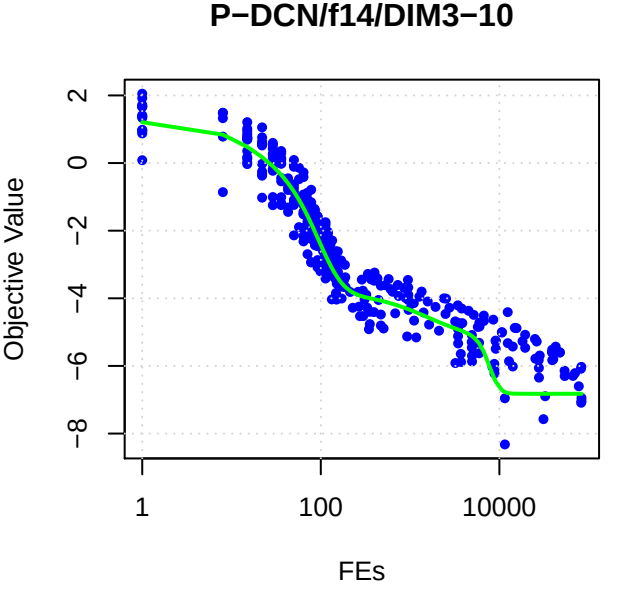
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Objective Value
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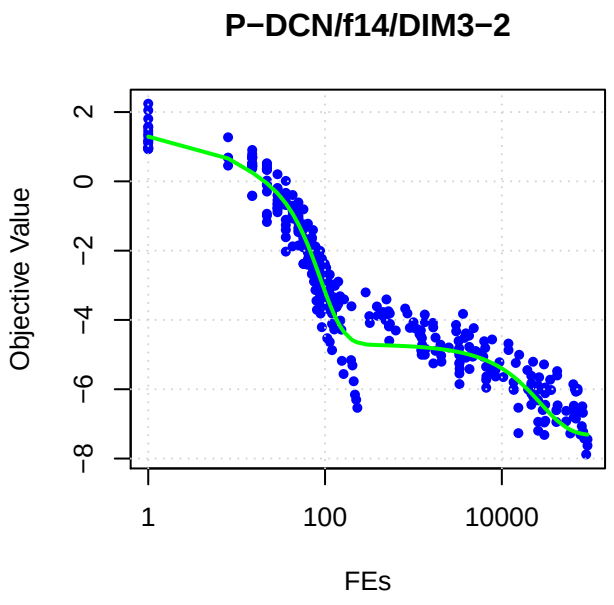
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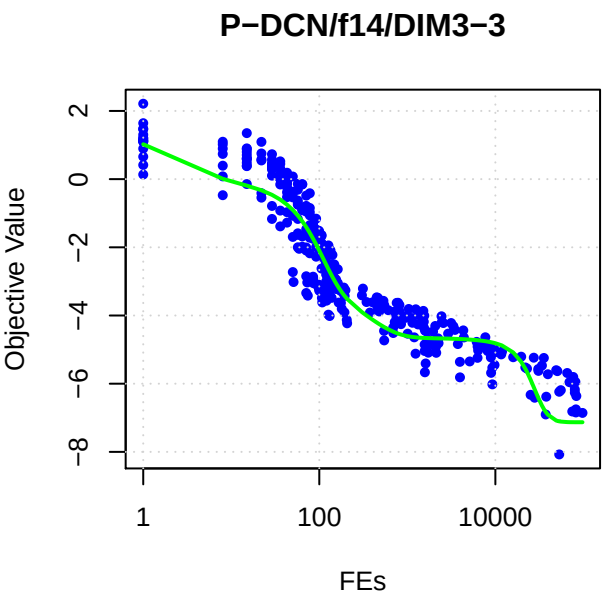
P−DCN/f14/DIM3−3
Objective Value
FEs
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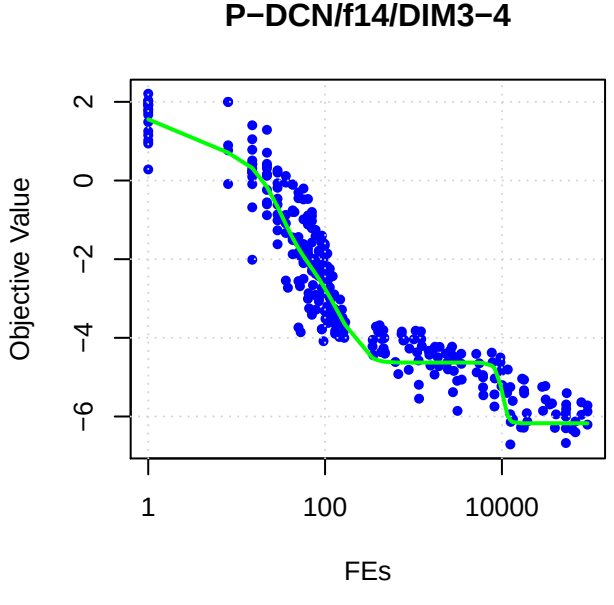
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Objective Value
FEs
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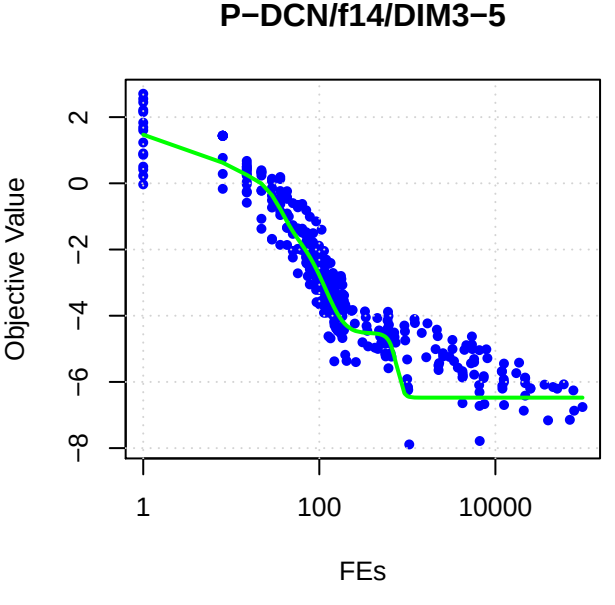
P−DCN/f14/DIM3−5
Objective Value
FEs
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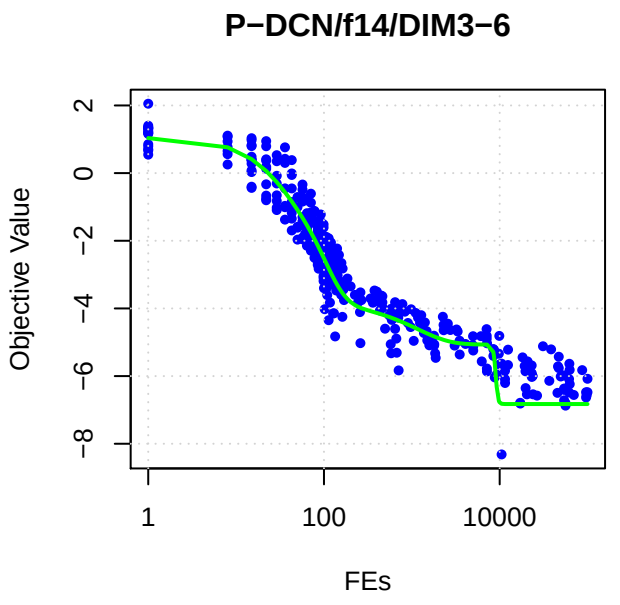
P−DCN/f14/DIM3−6
Objective Value
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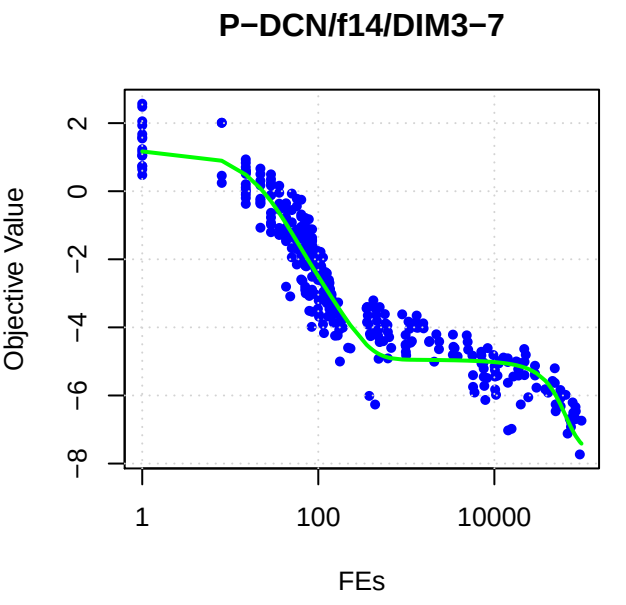
P−DCN/f14/DIM3−7
Objective Value
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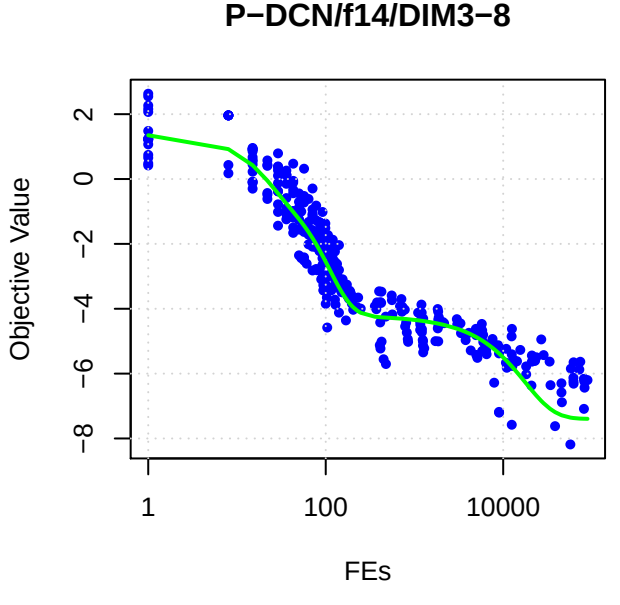
P−DCN/f14/DIM3−8
Objective Value
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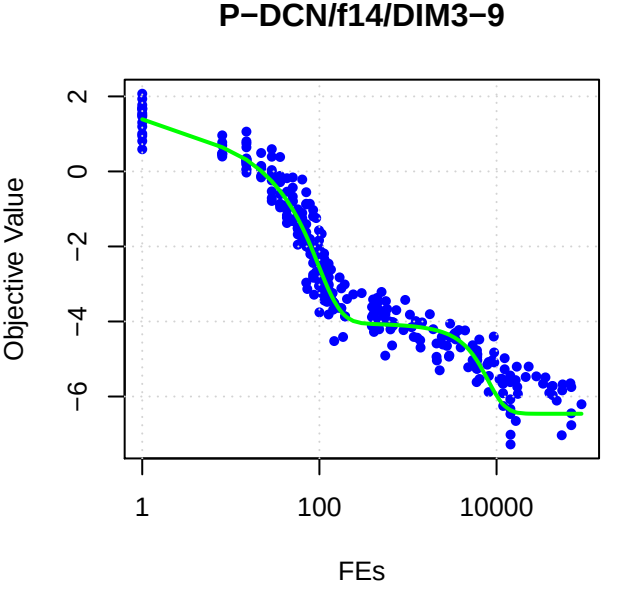
P−DCN/f14/DIM3−9
Objective Value
FEs
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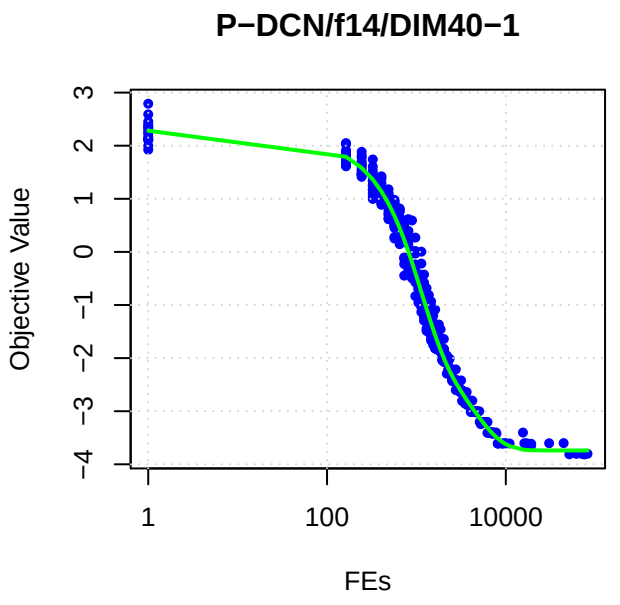
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Objective Value
FEs
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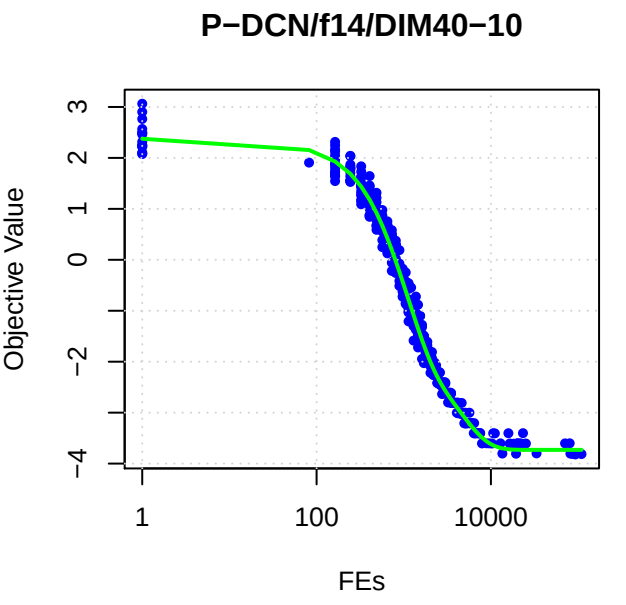
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Objective Value
FEs
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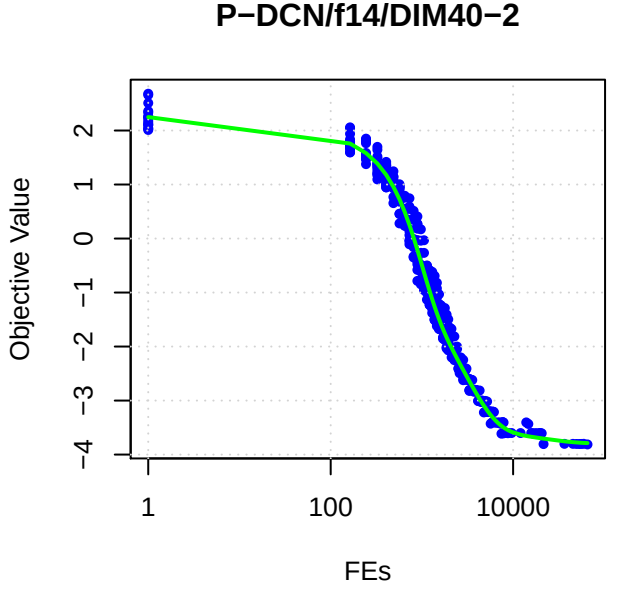
P−DCN/f14/DIM40−2
Objective Value
FEs
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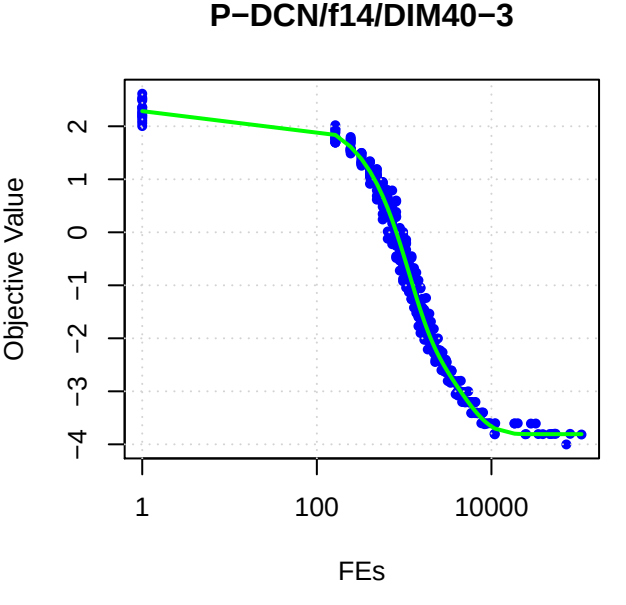
P−DCN/f14/DIM40−3
Objective Value
FEs
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−4
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100
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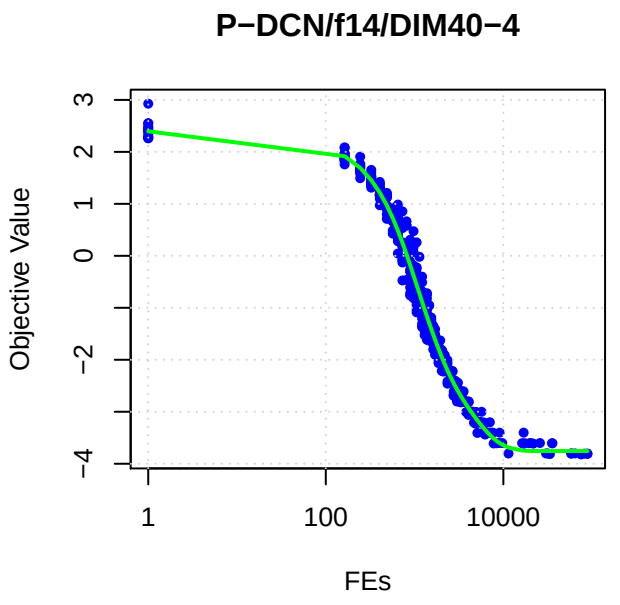
P−DCN/f14/DIM40−4
Objective Value
FEs
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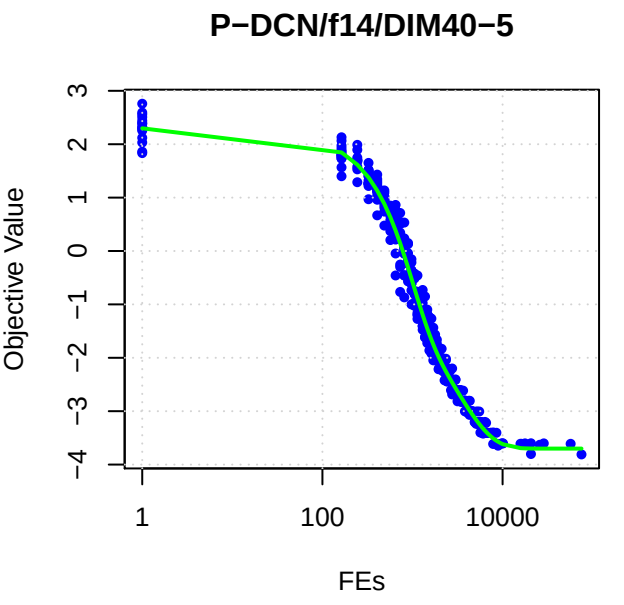
100
10000


P−DCN/f14/DIM40−5
Objective Value
FEs
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−3
−4
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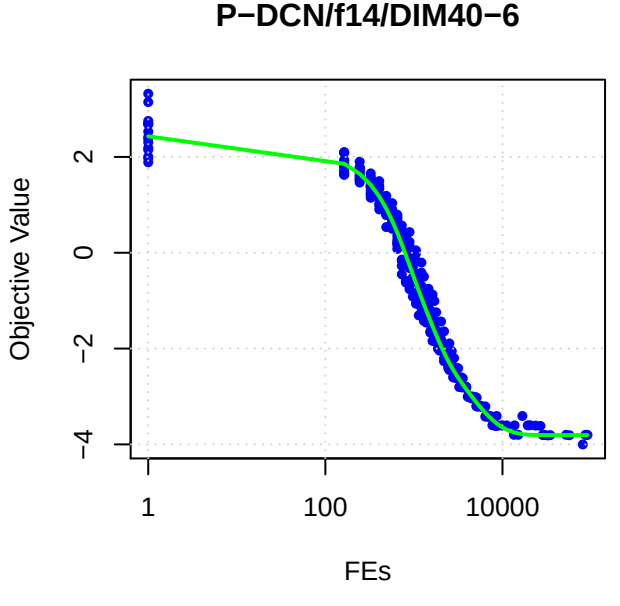
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Objective Value
FEs
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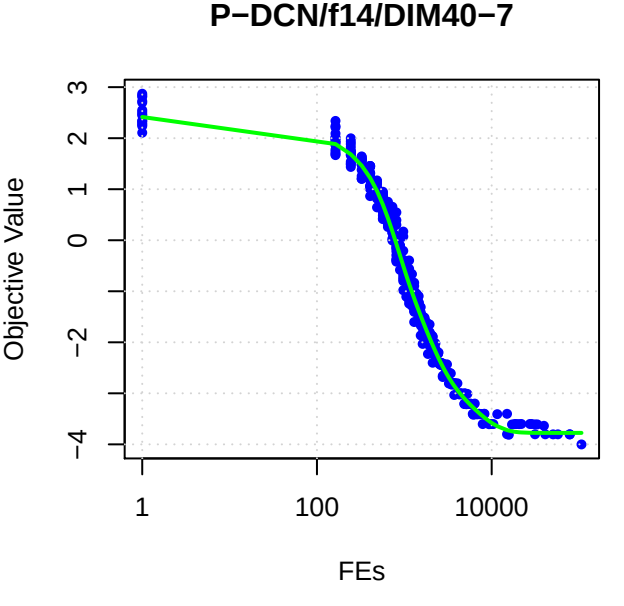
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Objective Value
FEs
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−2
−4
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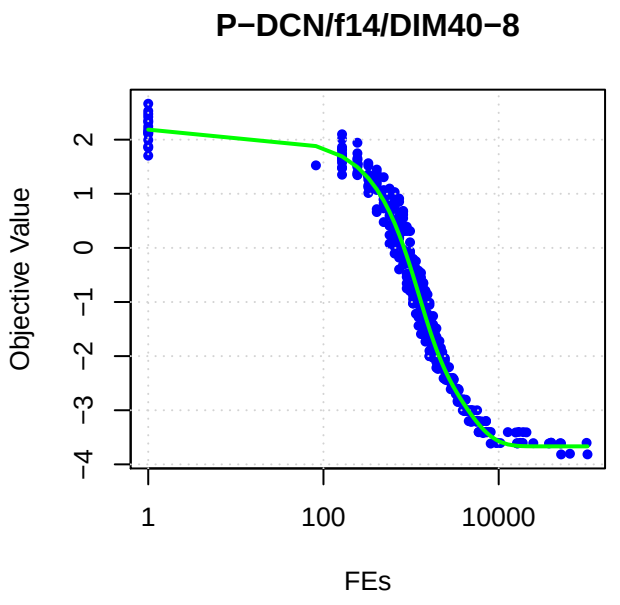
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Objective Value
FEs
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−1
−2
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−4
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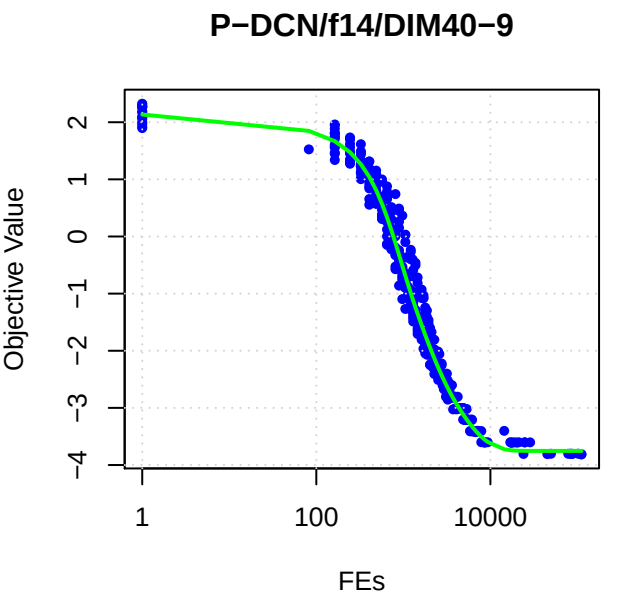
P−DCN/f14/DIM40−9
Objective Value
FEs
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−1
−2
−3
−4
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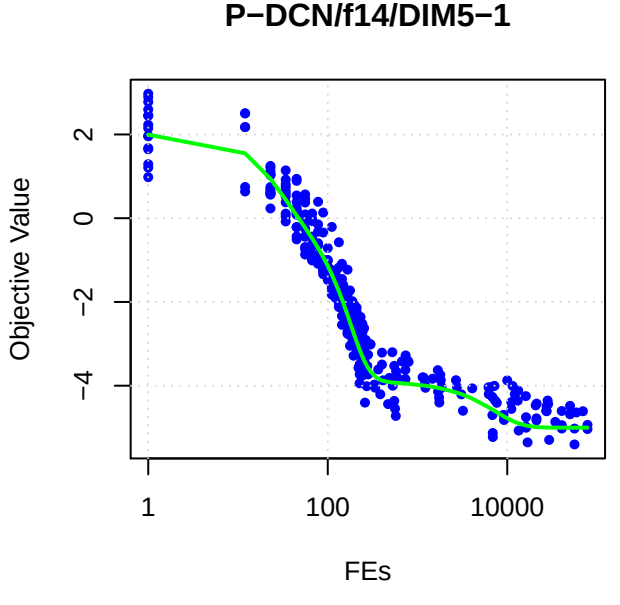
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Objective Value
FEs
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−4
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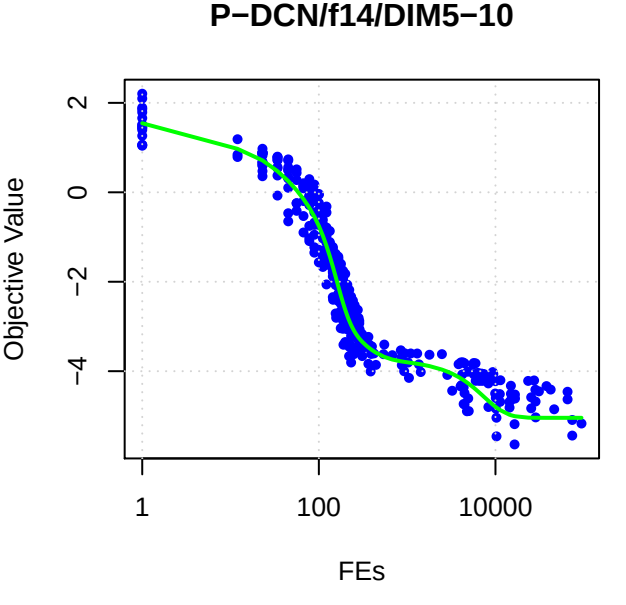
P−DCN/f14/DIM5−10
Objective Value
FEs
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−4
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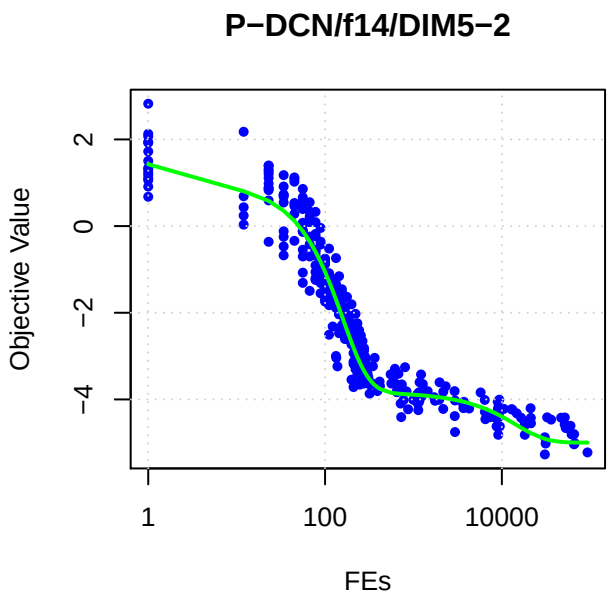
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Objective Value
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−4
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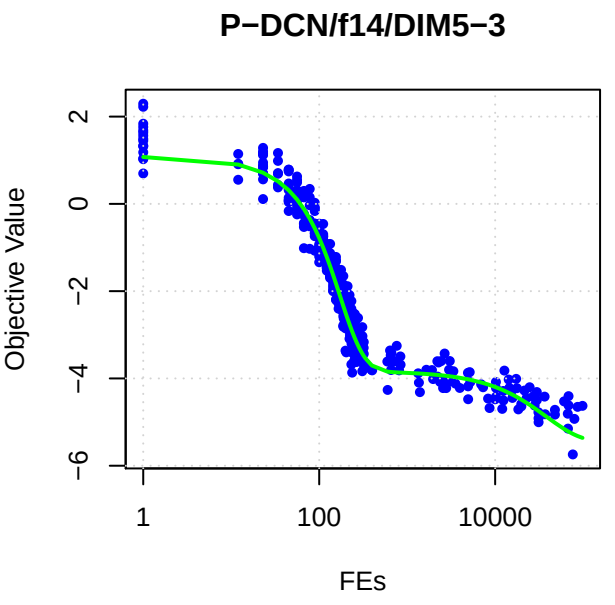
P−DCN/f14/DIM5−3
Objective Value
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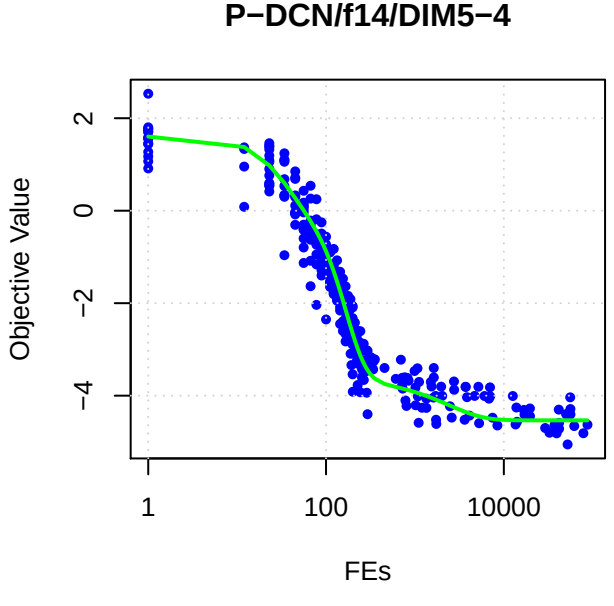
−2
−4
−6
1
100
10000
FEs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Objective Value
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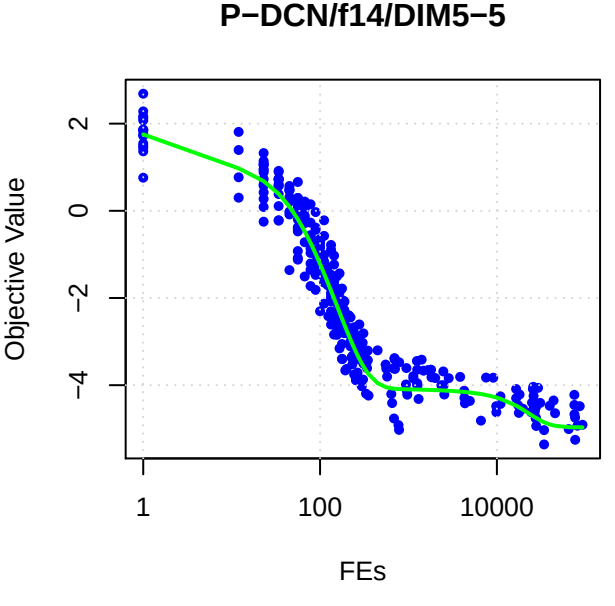
−2
−4
1
100
10000
FEs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Objective Value
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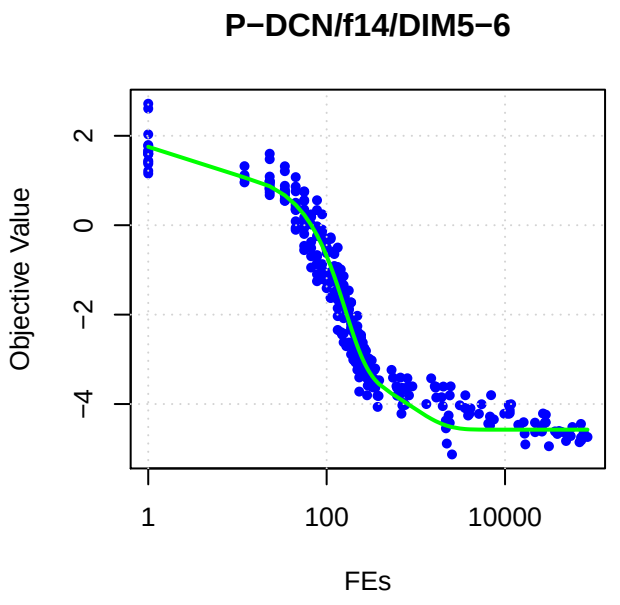
−2
−4
1
100
10000
FEs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Objective Value
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−4
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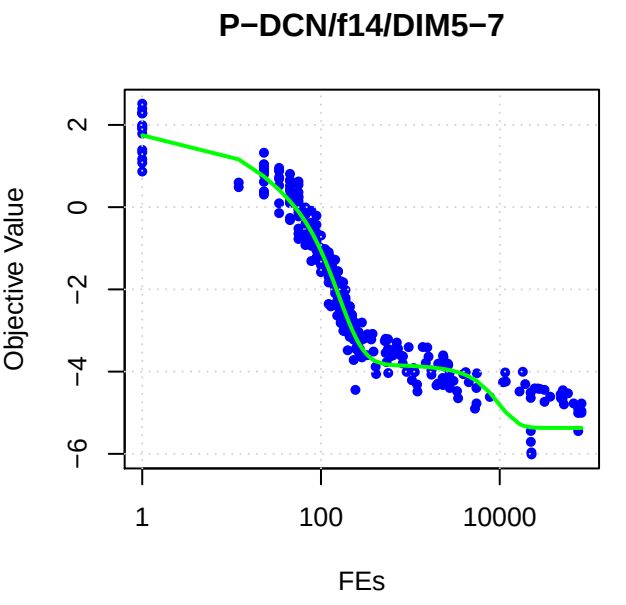
100
10000
FEs


P−DCN/f14/DIM5−7
Objective Value
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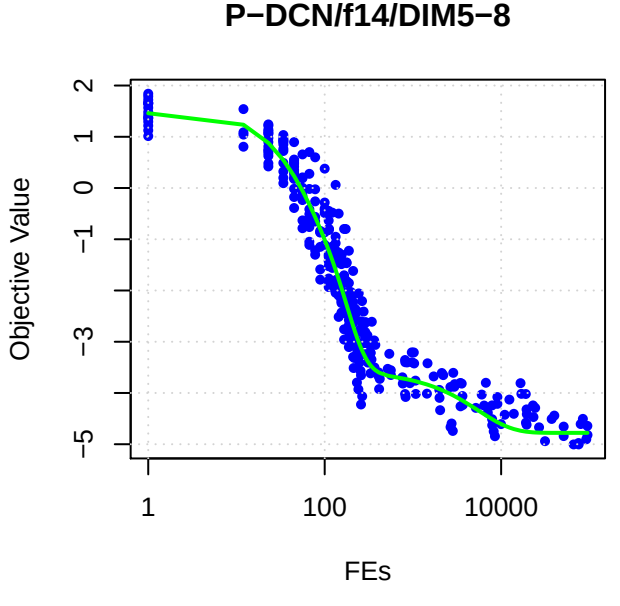
−2
−4
−6
1
100
10000
FEs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Objective Value
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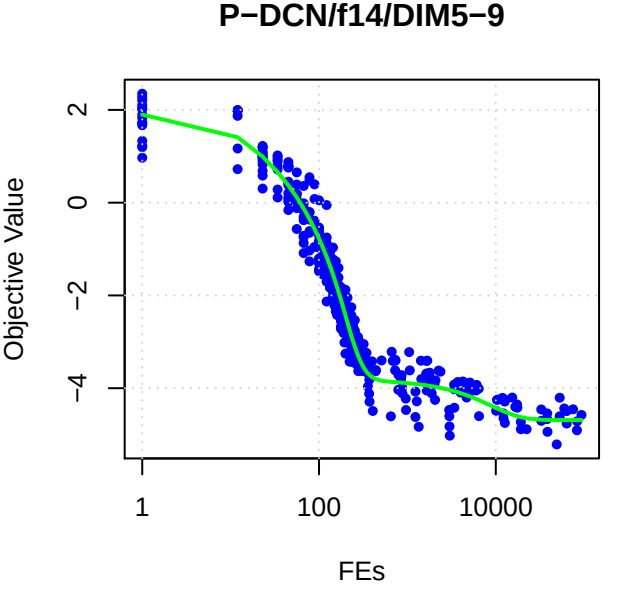
−3
−5
1
100
10000
FEs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Objective Value
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−4
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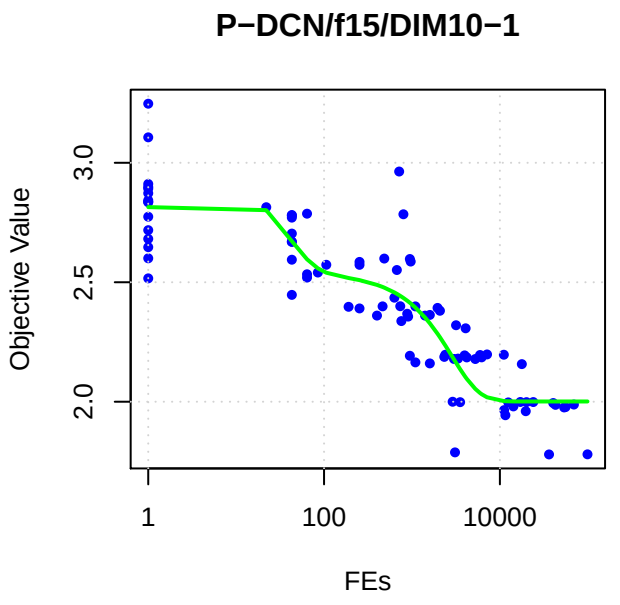
100
10000
FEs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Objective Value
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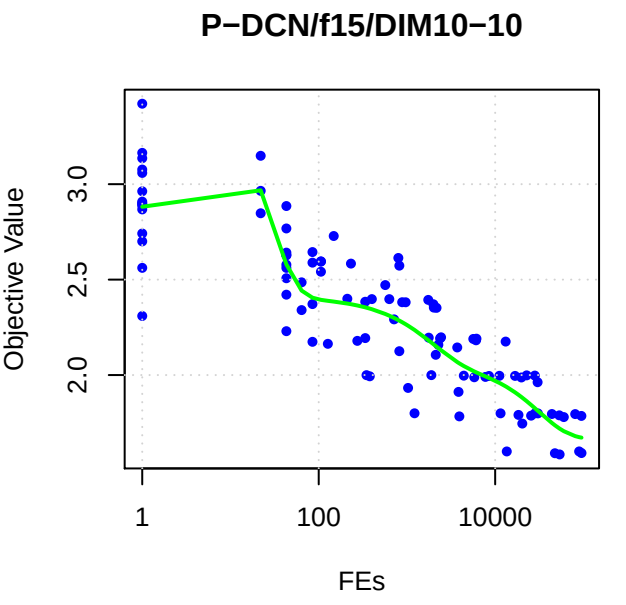
3.0
1
100
10000
FEs


P−DCN/f15/DIM10−10
Objective Value
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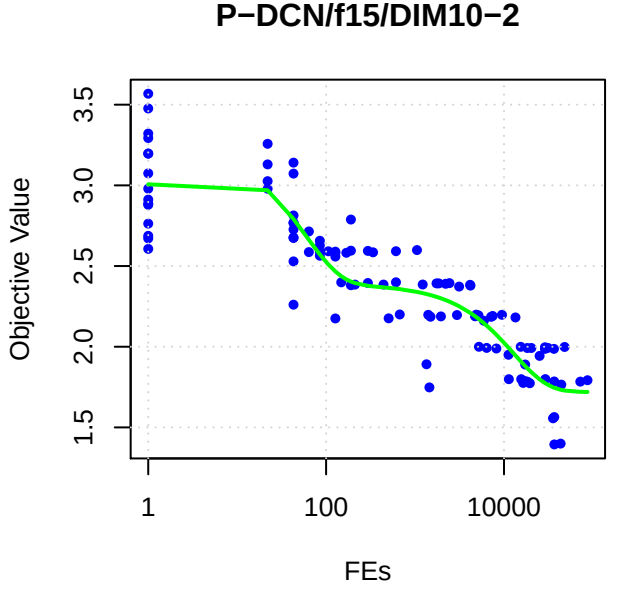
2.5
3.0
1
100
10000
FEs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Objective Value
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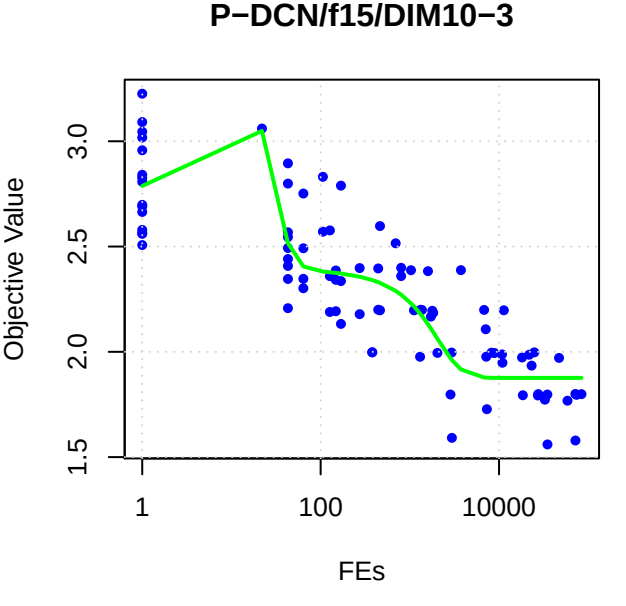
2.0
2.5
3.0
3.5
1
100
10000
FEs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Objective Value
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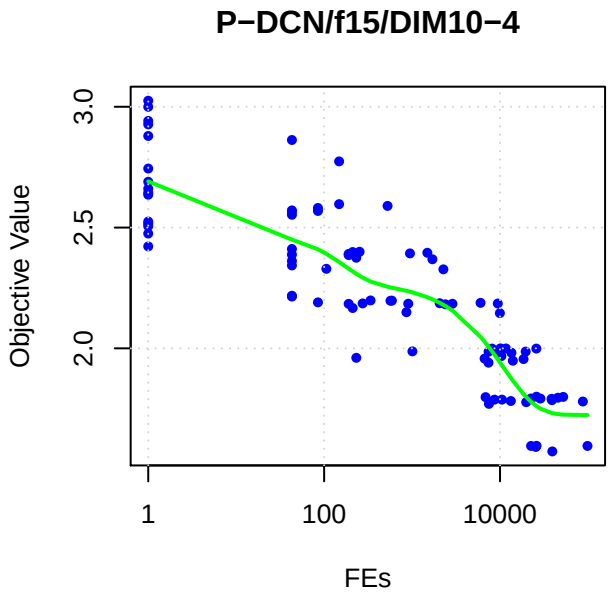
2.0
2.5
3.0
1
100
10000
FEs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Objective Value
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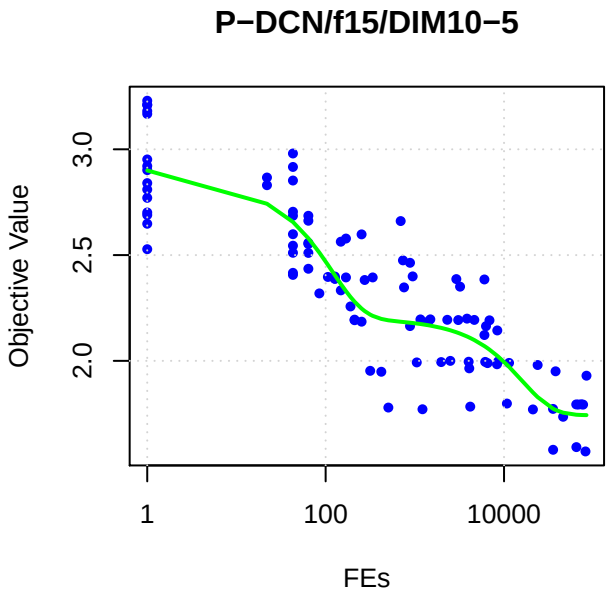
2.5
2.0
1
100
10000
FEs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Objective Value
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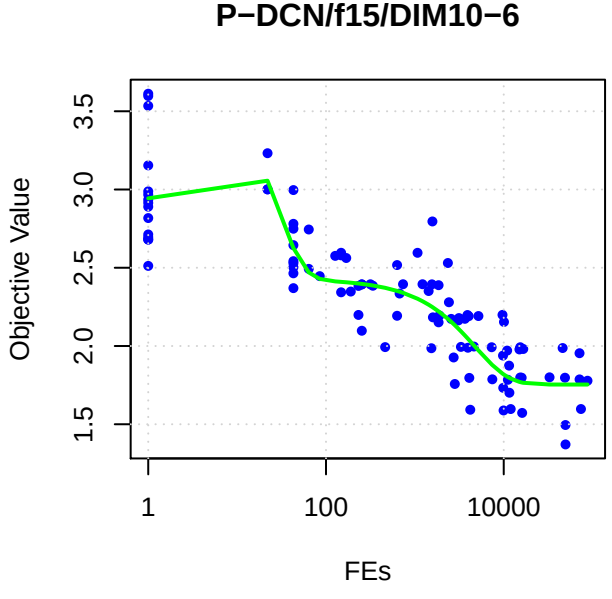
2.0
1
100
10000
FEs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Objective Value
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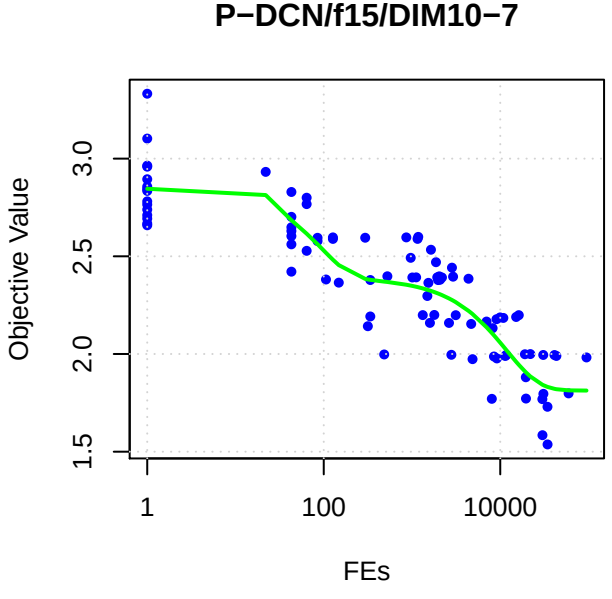
2.0
1.5
1
100
10000
FEs


P−DCN/f15/DIM10−7
Objective Value
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2.0
1.5
1
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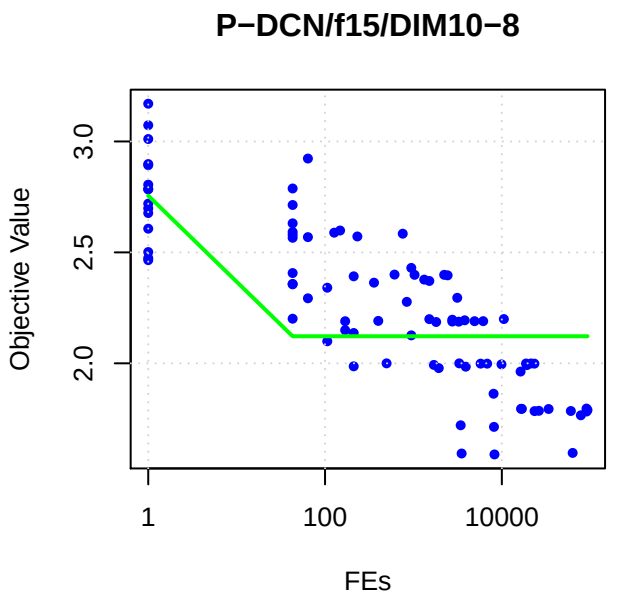
10000
FEs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Objective Value
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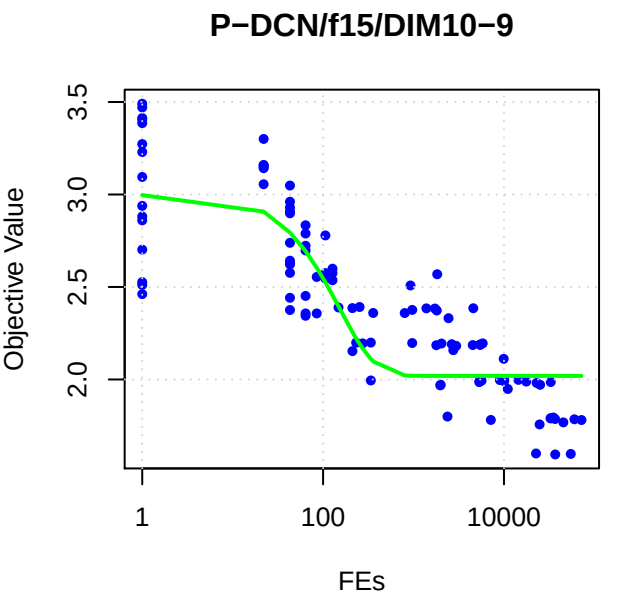
FEs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Objective Value
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2.5
2.0
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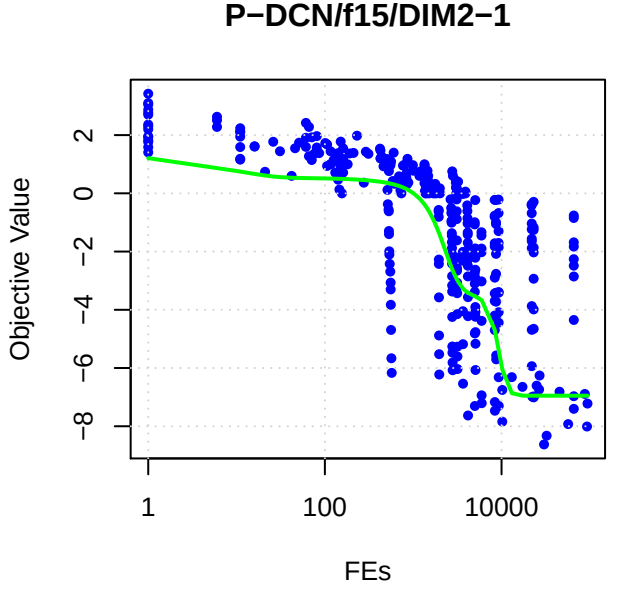
10000
FEs


P−DCN/f15/DIM2−1
Objective Value
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−8
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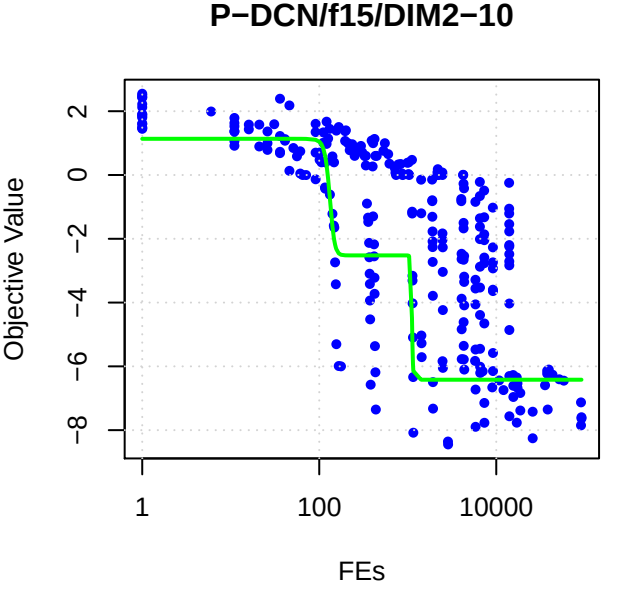
100
10000
FEs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Objective Value
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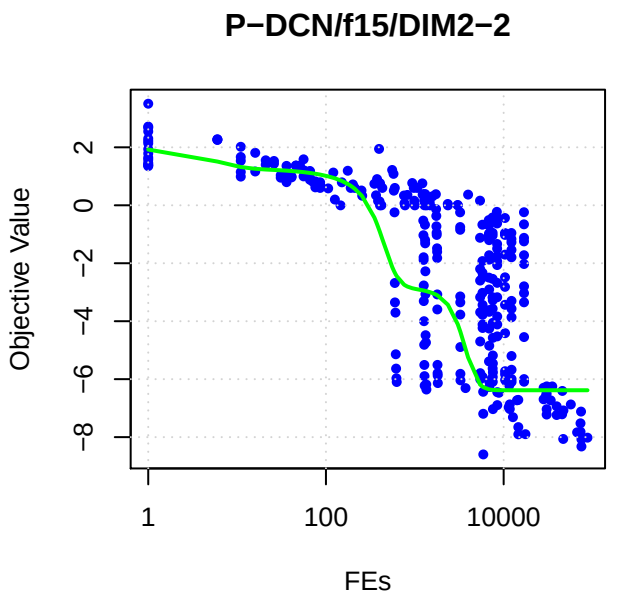
FEs


P−DCN/f15/DIM2−2
Objective Value
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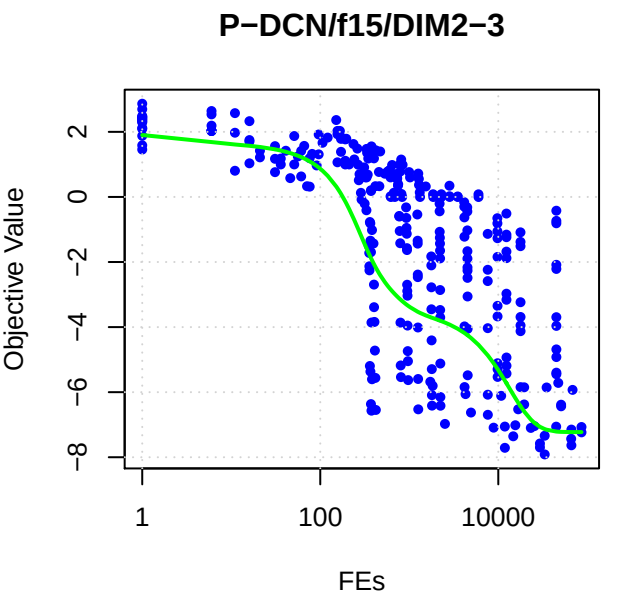
10000
FEs


P−DCN/f15/DIM2−3
Objective Value
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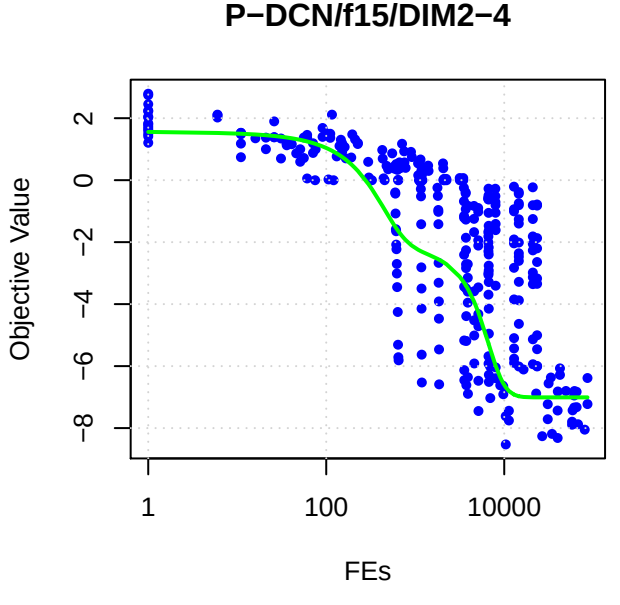
−4
−6
−8
1
100
10000
FEs


P−DCN/f15/DIM2−4
Objective Value
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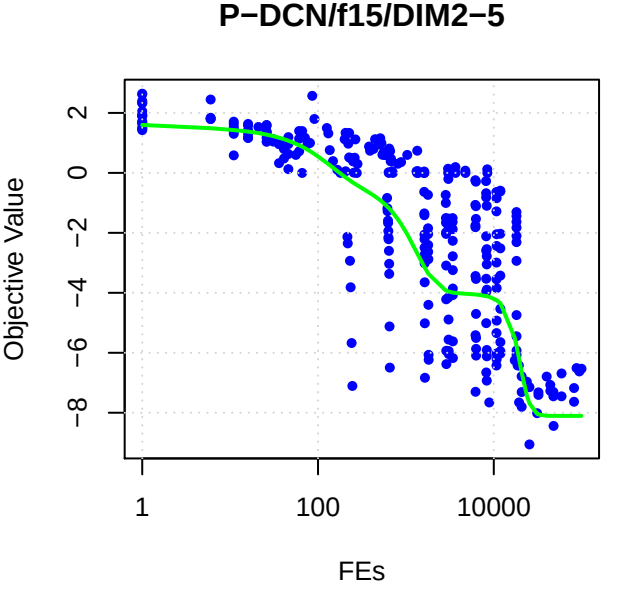
−2
−4
−6
−8
1
100
10000
FEs


P−DCN/f15/DIM2−5
Objective Value
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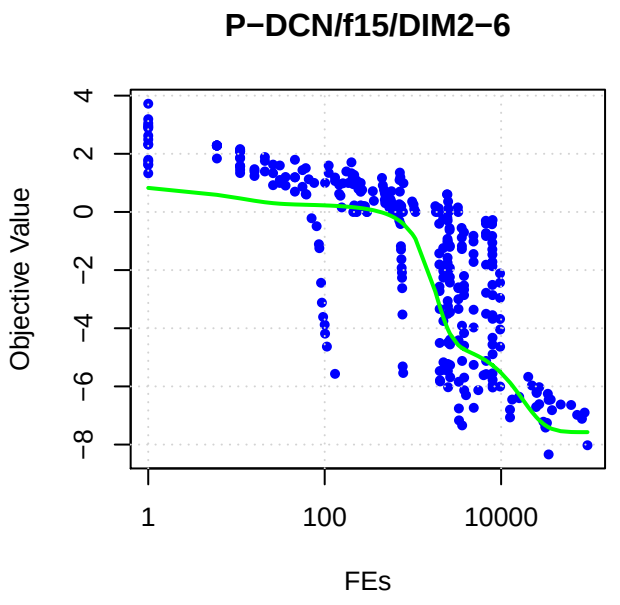
−4
−6
−8
1
100
10000
FEs


P−DCN/f15/DIM2−6
Objective Value
FEs
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−4
−6
−8
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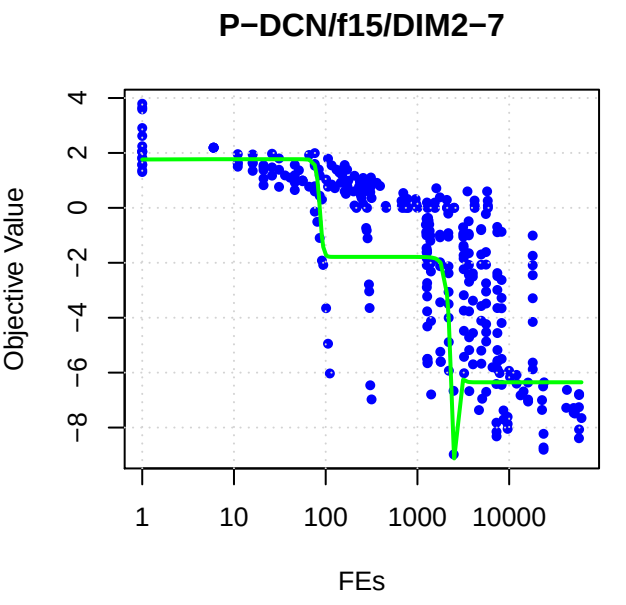
P−DCN/f15/DIM2−7
Objective Value
FEs
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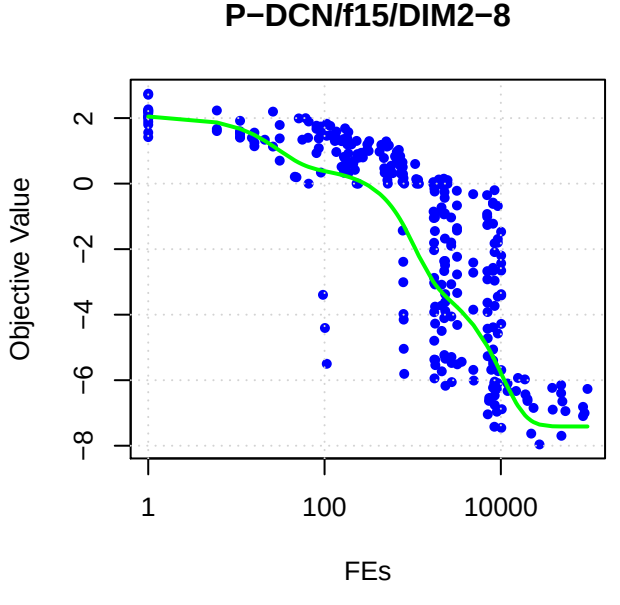
0
−2
−4
−6
−8
1
10
100
1000
10000


P−DCN/f15/DIM2−8
Objective Value
FEs
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−6
−8
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100
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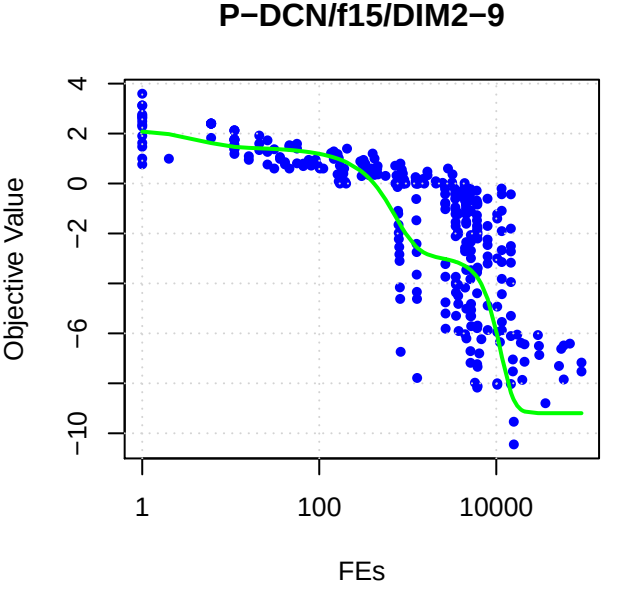
P−DCN/f15/DIM2−9
Objective Value
FEs
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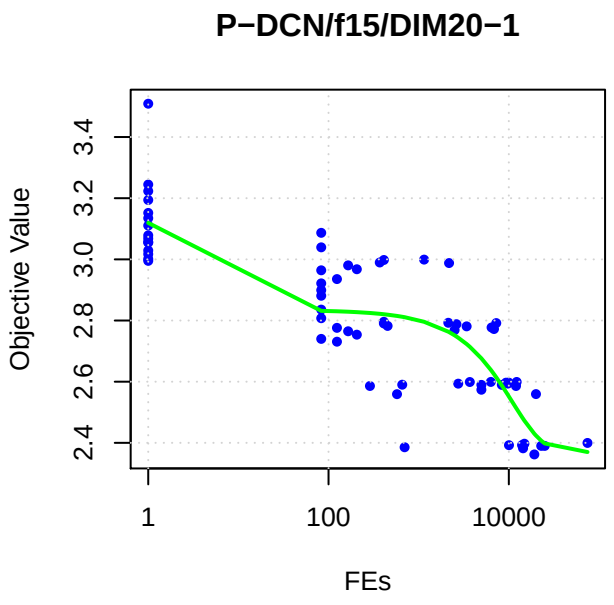
10000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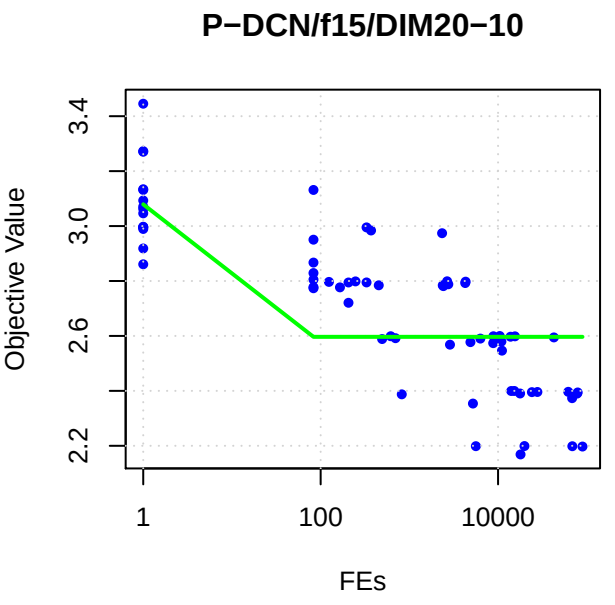
Objective Value
2.4
2.6
2.8
3.0
3.2
3.4
1
100
10000
FEs


P−DCN/f15/DIM20−10
Objective Value
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2.6
3.0
3.4
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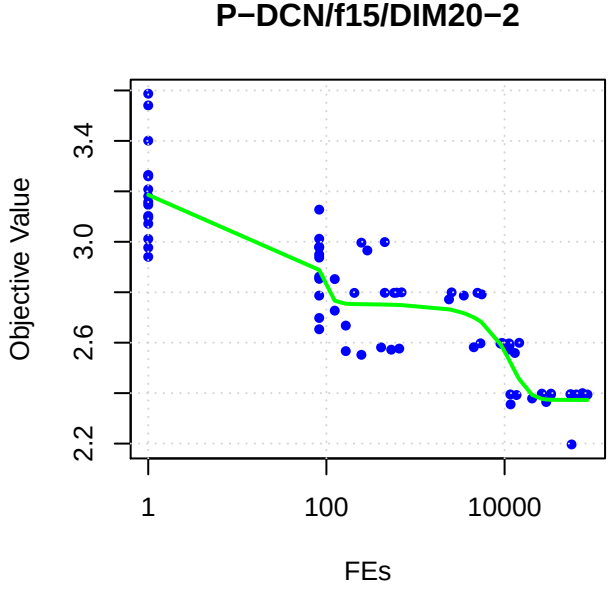
10000
FEs


P−DCN/f15/DIM20−2
Objective Value
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2.6
3.0
3.4
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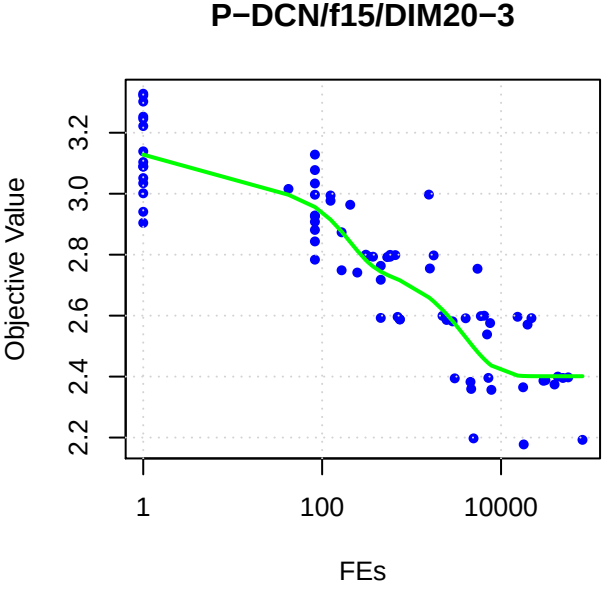
100
10000
FEs


P−DCN/f15/DIM20−3
Objective Value
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2.4
2.6
2.8
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3.2
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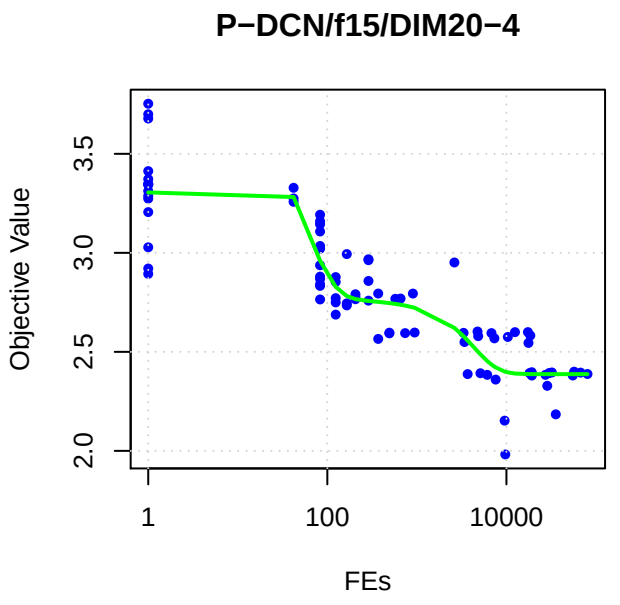
100
10000
FEs


P−DCN/f15/DIM20−4
Objective Value
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2.5
3.0
3.5
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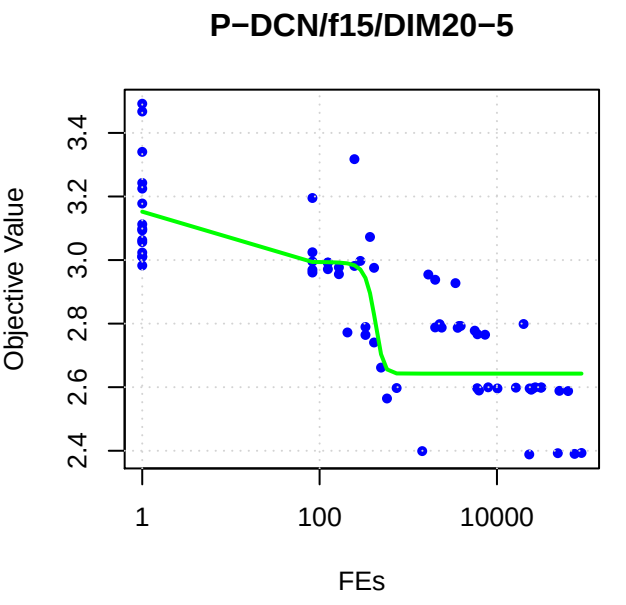
100
10000
FEs


P−DCN/f15/DIM20−5
Objective Value
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2.6
2.8
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3.2
3.4
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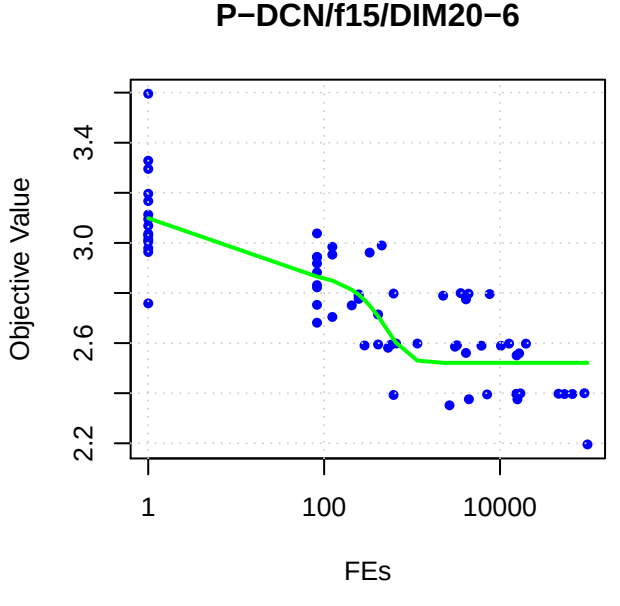
100
10000
FEs


P−DCN/f15/DIM20−6
Objective Value
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2.6
3.0
3.4
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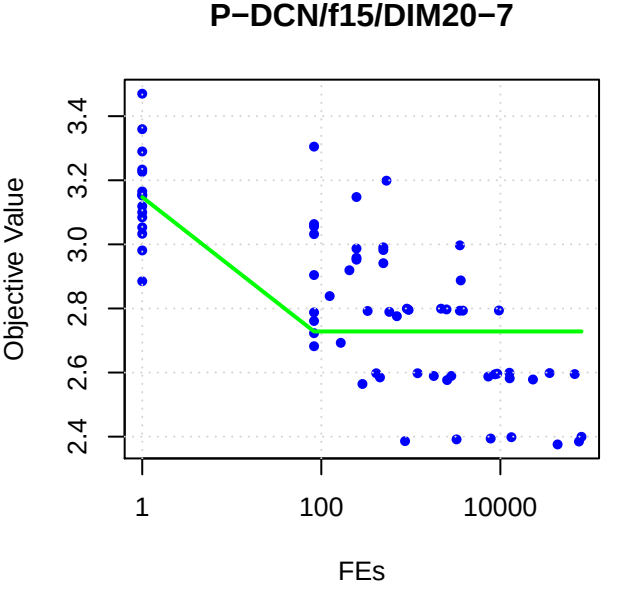
FEs


P−DCN/f15/DIM20−7
Objective Value
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2.6
2.8
3.0
3.2
3.4
1
100
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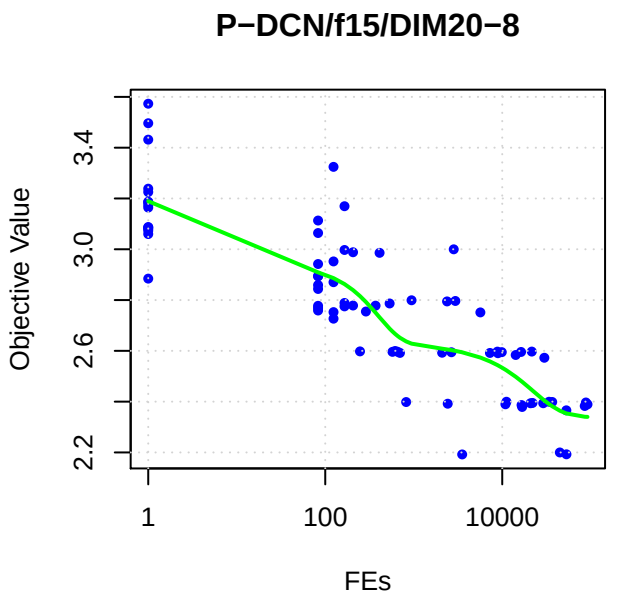
FEs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Objective Value
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2.6
3.0
3.4
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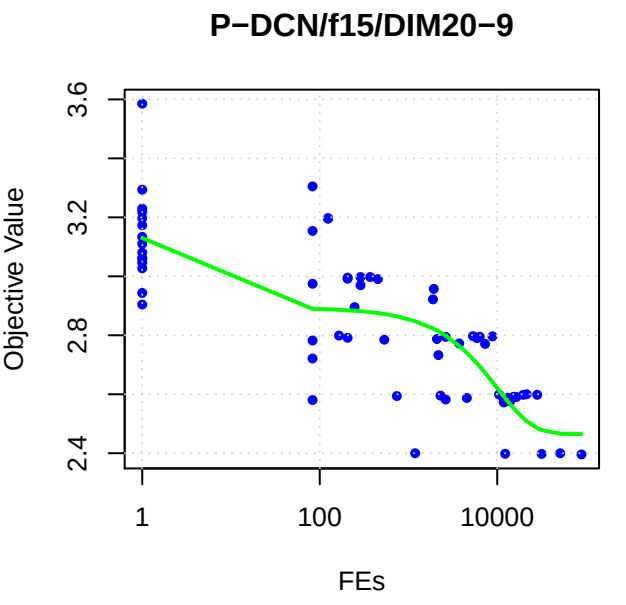
10000
FEs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Objective Value
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2.8
3.2
3.6
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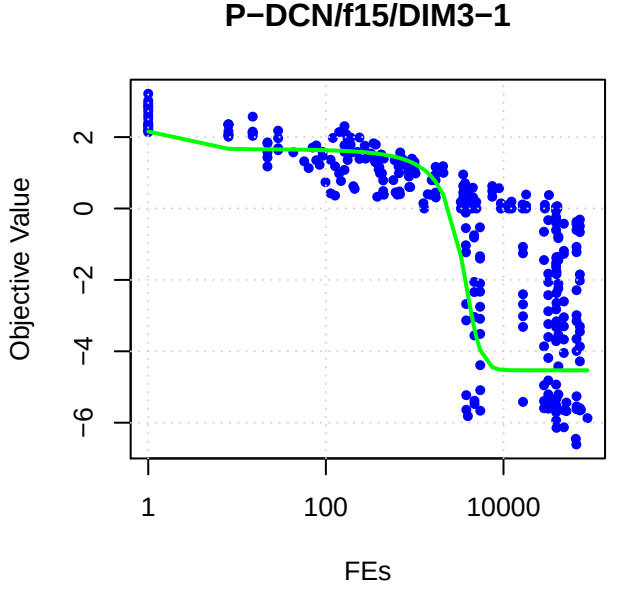
10000
FEs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Objective Value
−6
−4
−2
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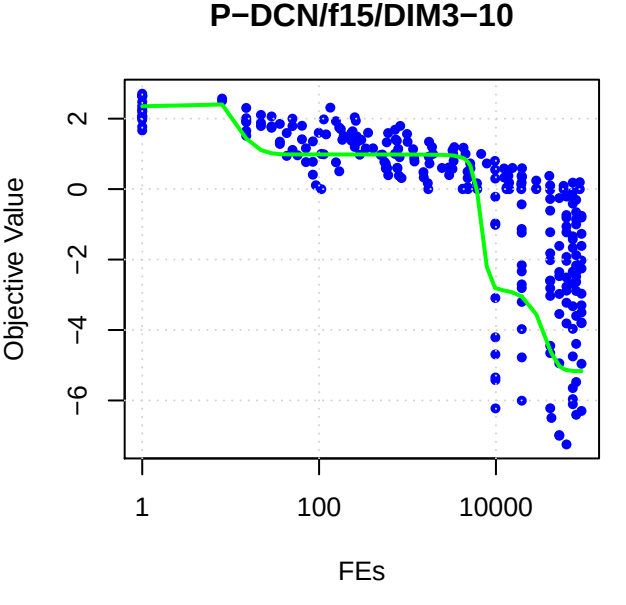
1
100
10000
FEs


P−DCN/f15/DIM3−10
Objective Value
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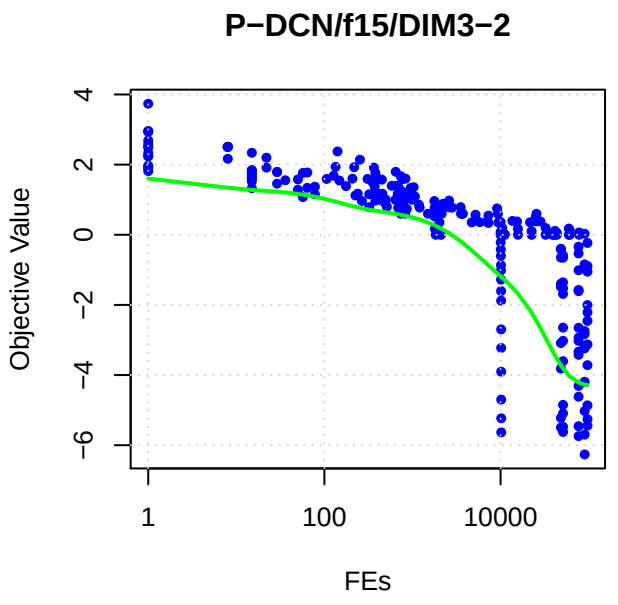
−4
−2
0
2
1
100
10000
FEs


P−DCN/f15/DIM3−2
Objective Value
FEs
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2
0
−2
−4
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100
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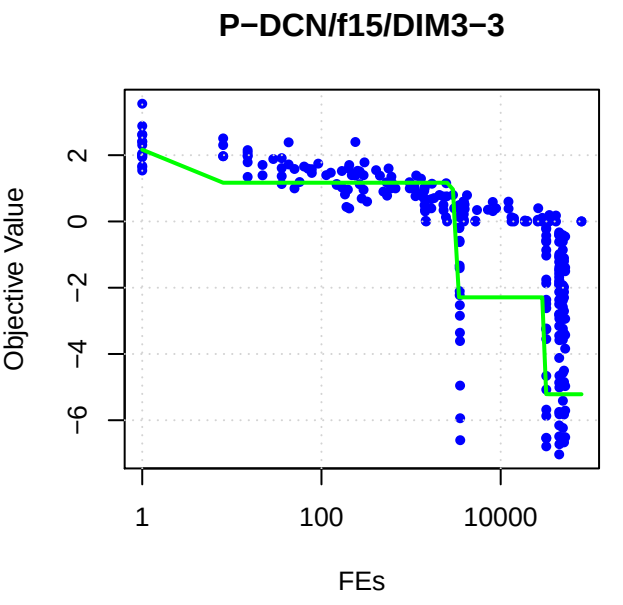
P−DCN/f15/DIM3−3
Objective Value
FEs
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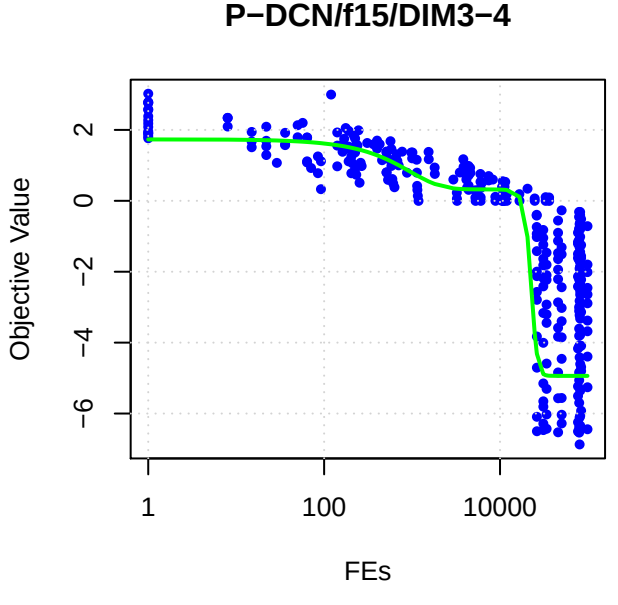
0
−2
−4
−6
1
100
10000


P−DCN/f15/DIM3−4
Objective Value
FEs
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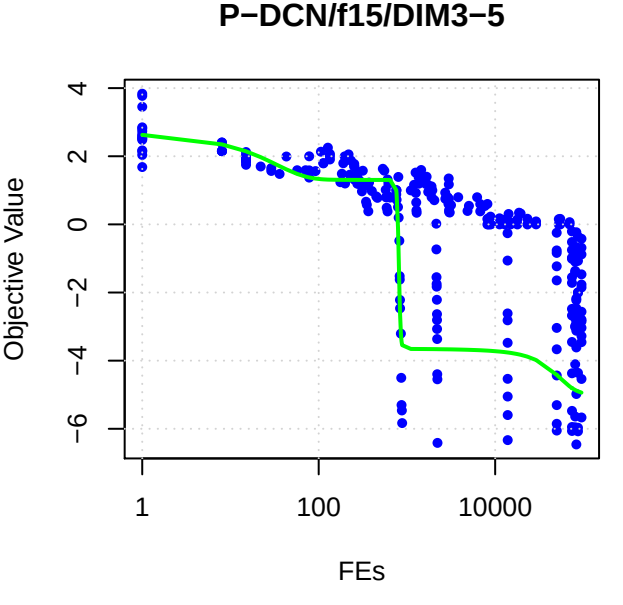
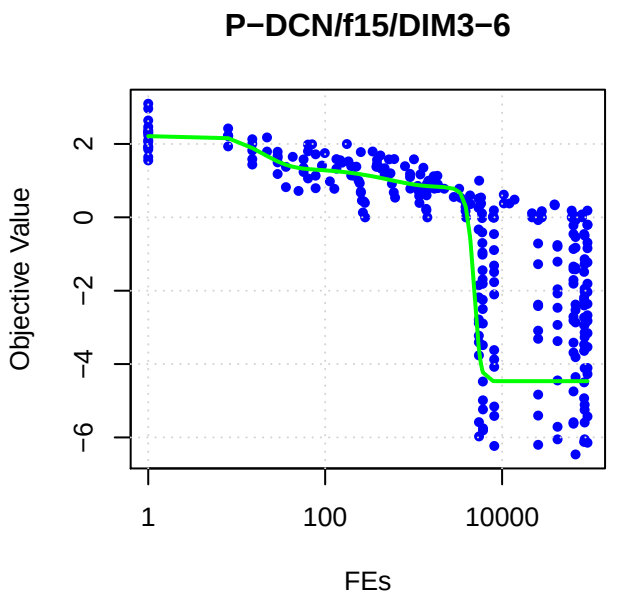
0
−2
−4
−6
1
100
10000


P−DCN/f15/DIM3−5
Objective Value
FEs
4
2
0
−2
−4
−6
1
100
10000


P−DCN/f15/DIM3−6
Objective Value
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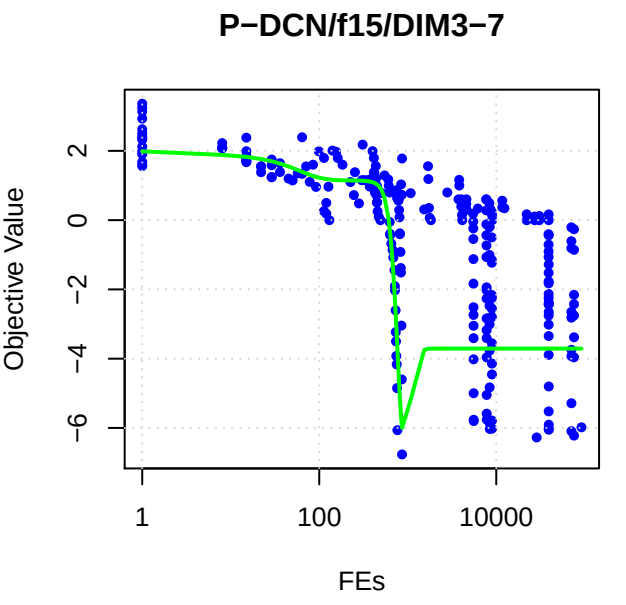
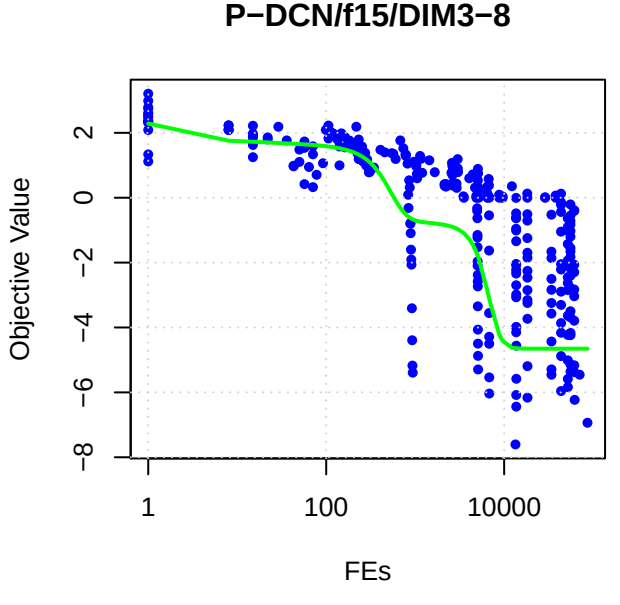
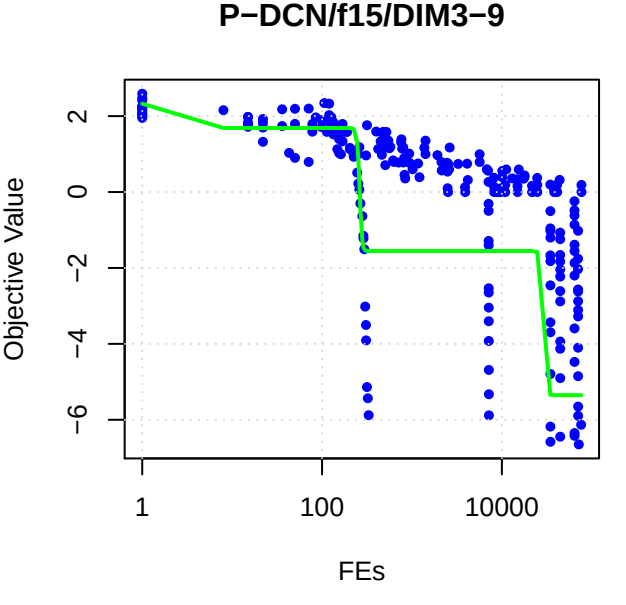
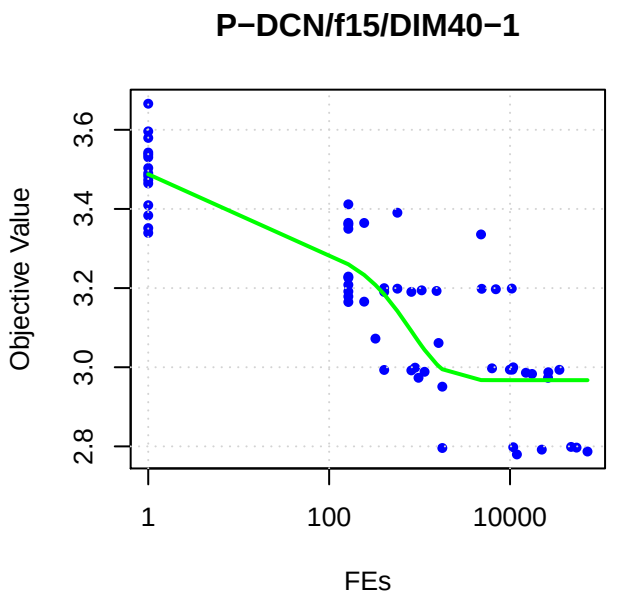
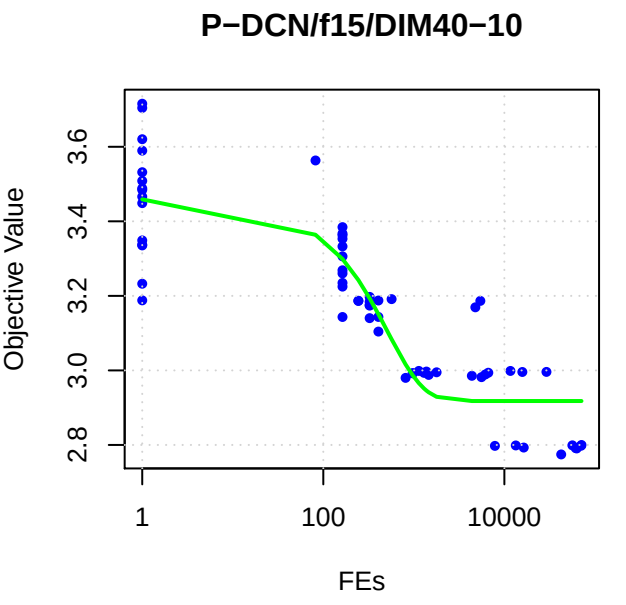
−2
−4
−6
1
100
10000
FEs

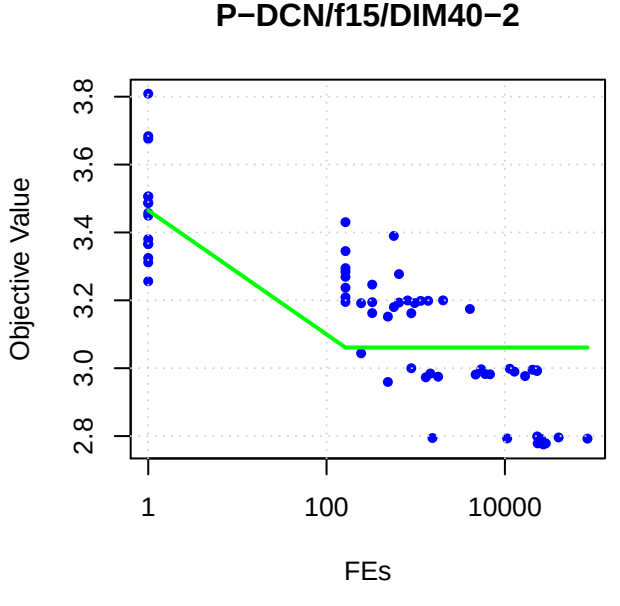

P−DCN/f15/DIM3−7
Objective Value
2
0
−2
−4
−6
1
100
10000
FEs

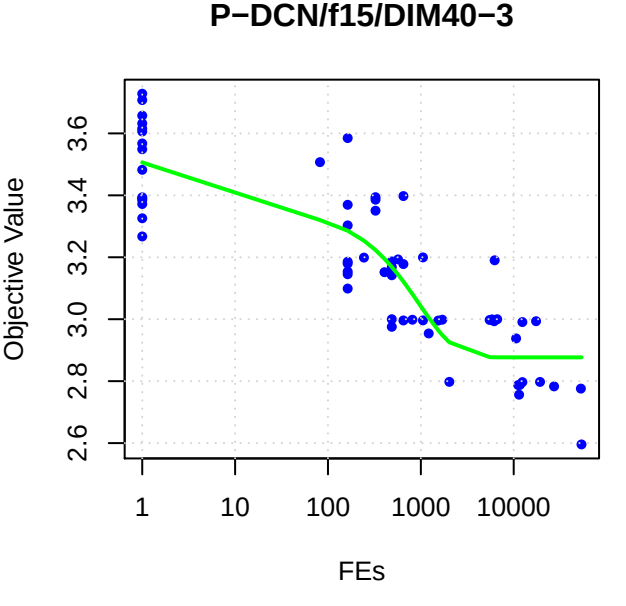

P−DCN/f15/DIM3−8
Objective Value
2
0
−2
−4
−6
−8
1
100
10000
FEs

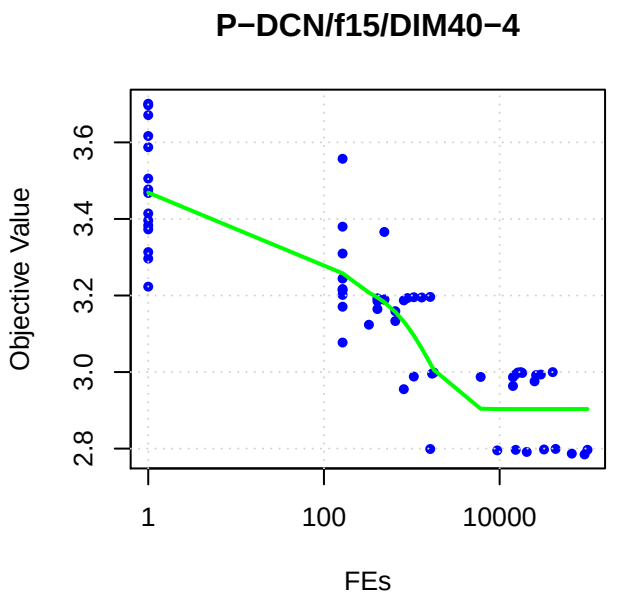

P−DCN/f15/DIM3−9
Objective Value
2
0
−2
−4
−6
1
100
10000
FEs

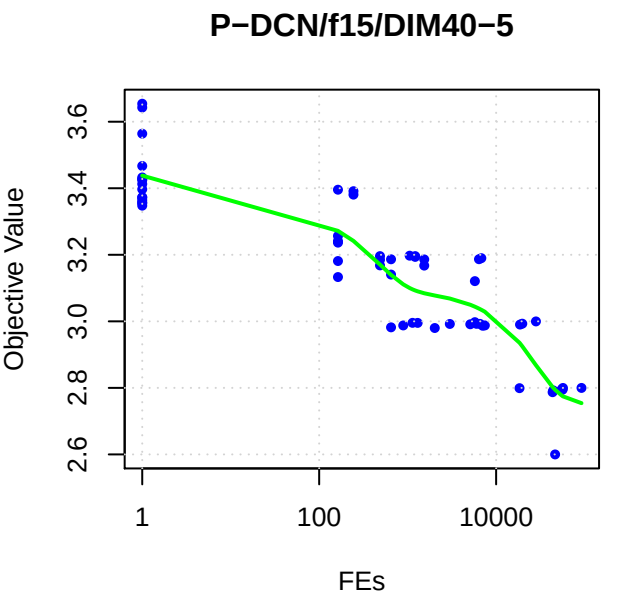

P−DCN/f15/DIM40−1
Objective Value
2.8
3.0
3.2
3.4
3.6
1
100
10000
FEs

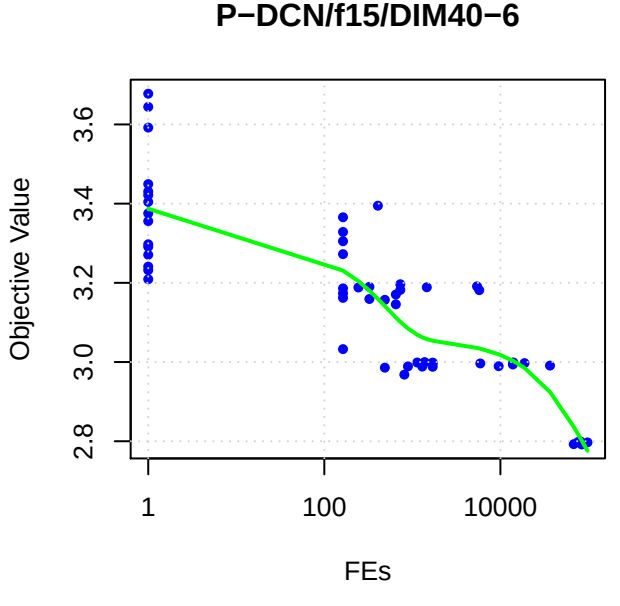

P−DCN/f15/DIM40−10
Objective Value
2.8
3.0
3.2
3.4
3.6
1
100
10000
FEs

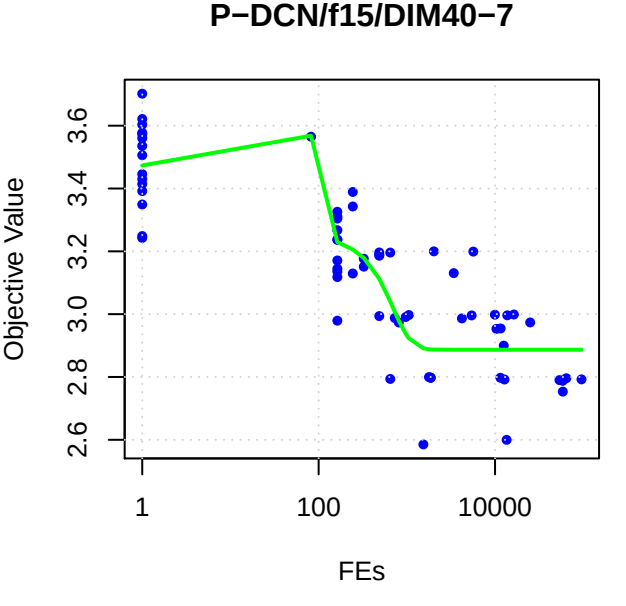

P−DCN/f15/DIM40−2
Objective Value
2.8
3.0
3.2
3.4
3.6
3.8
1
100
10000
FEs

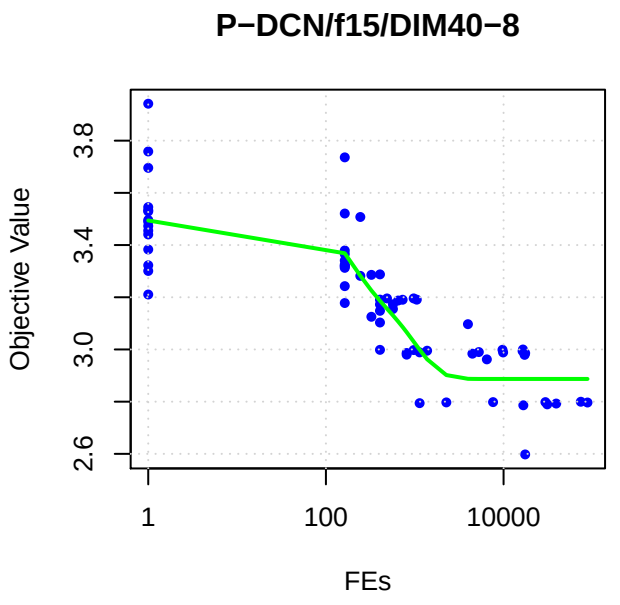

P−DCN/f15/DIM40−3
Objective Value
2.6
2.8
3.0
3.2
3.4
3.6
1
10
100
1000
10000
FEs

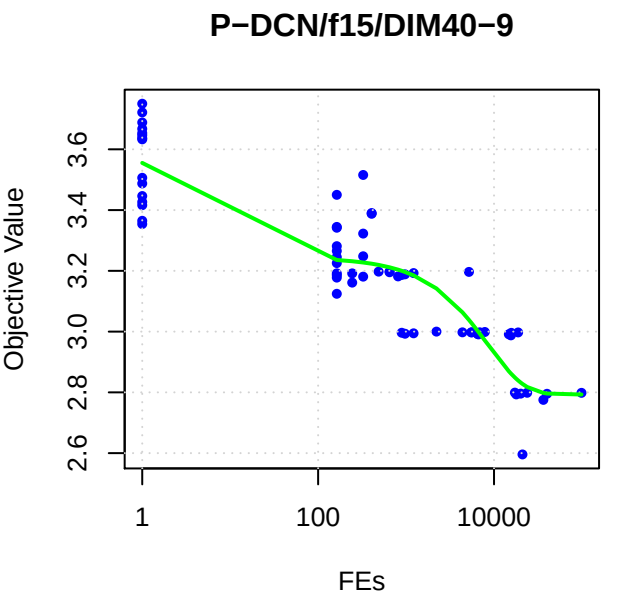

P−DCN/f15/DIM40−4
Objective Value
2.8
3.0
3.2
3.4
3.6
1
100
10000
FEs

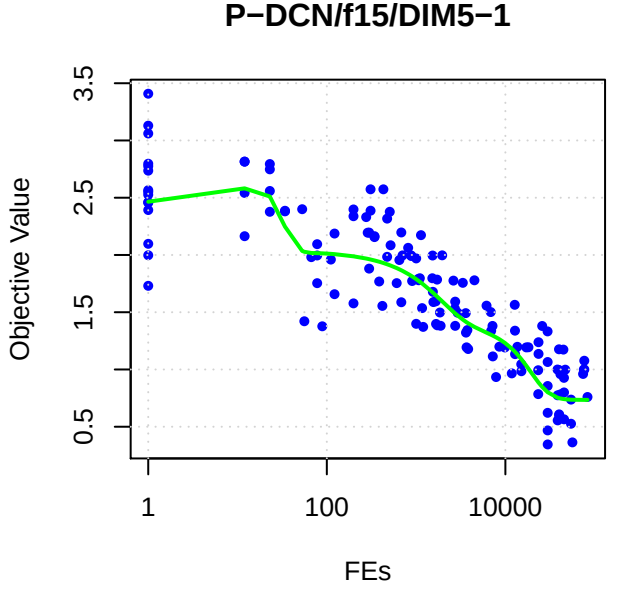

P−DCN/f15/DIM40−5
Objective Value
2.6
2.8
3.0
3.2
3.4
3.6
1
100
10000
FEs

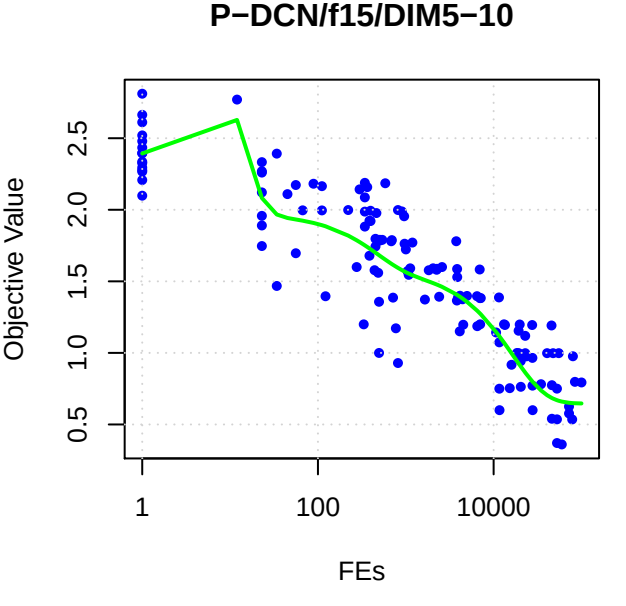

P−DCN/f15/DIM40−6
Objective Value
2.8
3.0
3.2
3.4
3.6
1
100
10000
FEs

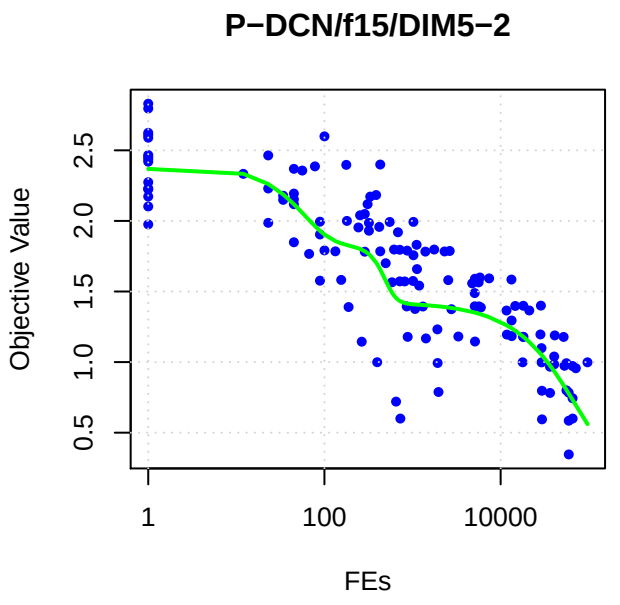

P−DCN/f15/DIM40−7
Objective Value
2.6
2.8
3.0
3.2
3.4
3.6
1
100
10000
FEs


P−DCN/f15/DIM40−8
Objective Value
3.8
3.4
3.0
2.6
1
100
10000
FEs


P−DCN/f15/DIM40−9
Objective Value
3.6
3.4
3.2
3.0
2.8
2.6
1
100
10000
FEs


P−DCN/f15/DIM5−1
Objective Value
3.5
2.5
1.5
0.5
1
100
10000
FEs


P−DCN/f15/DIM5−10
Objective Value
2.5
2.0
1.5
1.0
0.5
1
100
10000
FEs


P−DCN/f15/DIM5−2
Objective Value
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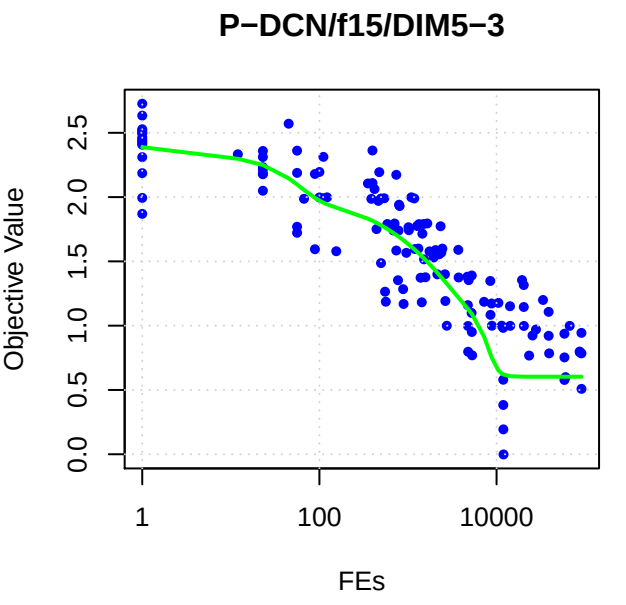
1.5
2.0
2.5
1
100
10000
FEs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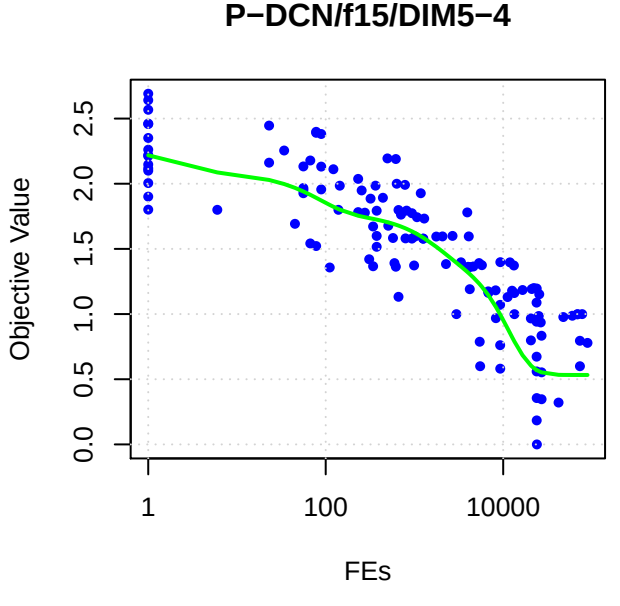
1.5
2.0
2.5
1
100
10000
FEs


P−DCN/f15/DIM5−4
Objective Value
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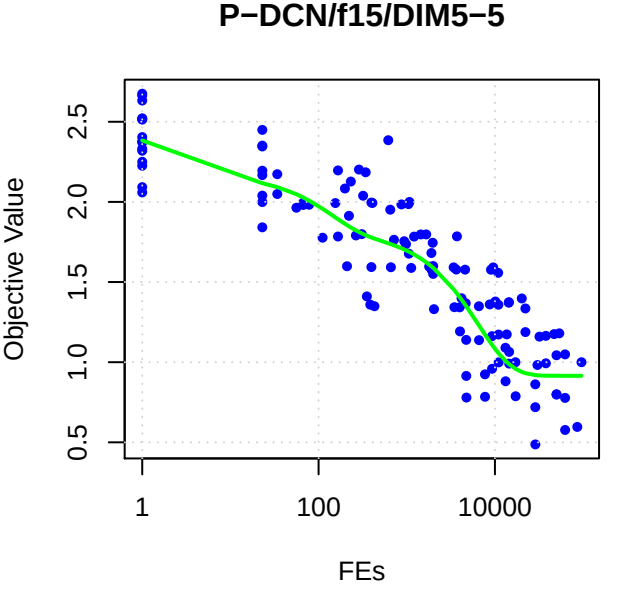
1.0
1.5
2.0
2.5
1
100
10000
FEs


P−DCN/f15/DIM5−5
Objective Value
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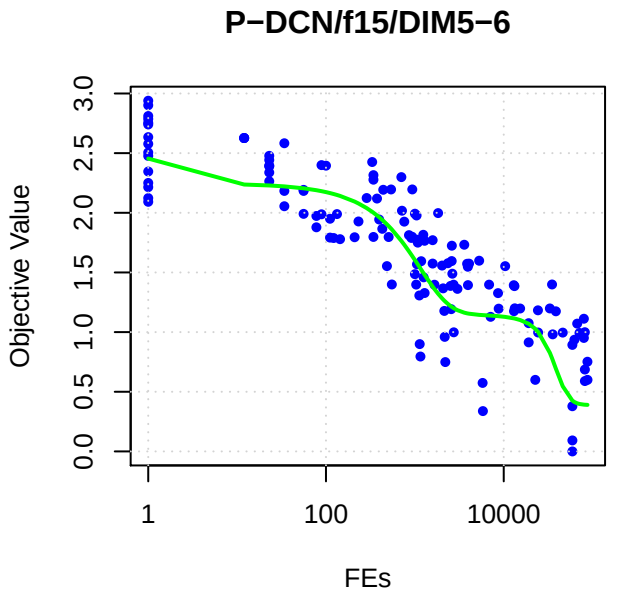
1.5
2.0
2.5
1
100
10000
FEs


P−DCN/f15/DIM5−6
Objective Value
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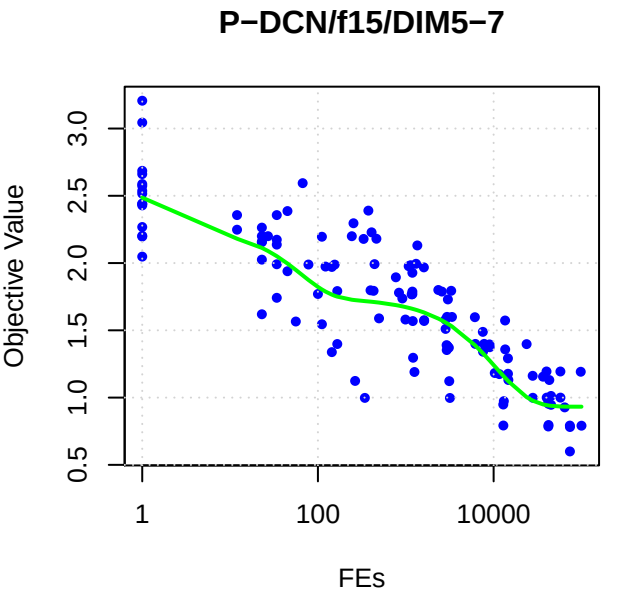
1.5
2.0
2.5
3.0
1
100
10000
FEs


P−DCN/f15/DIM5−7
Objective Value
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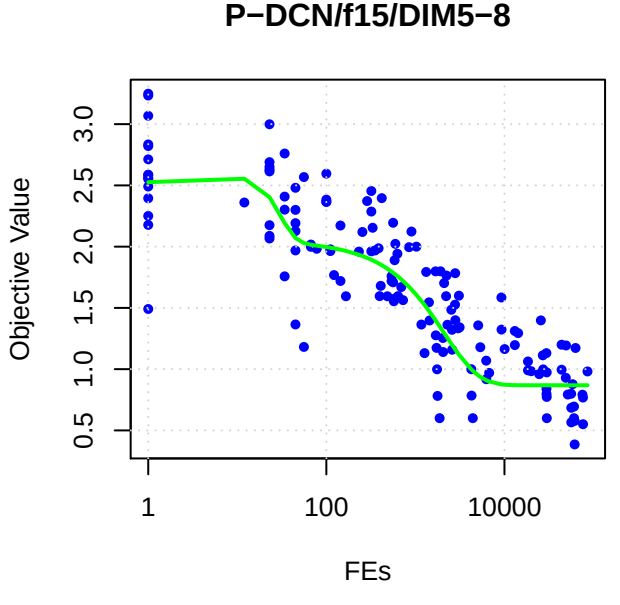
1.5
2.0
2.5
3.0
1
100
10000
FEs


P−DCN/f15/DIM5−8
Objective Value
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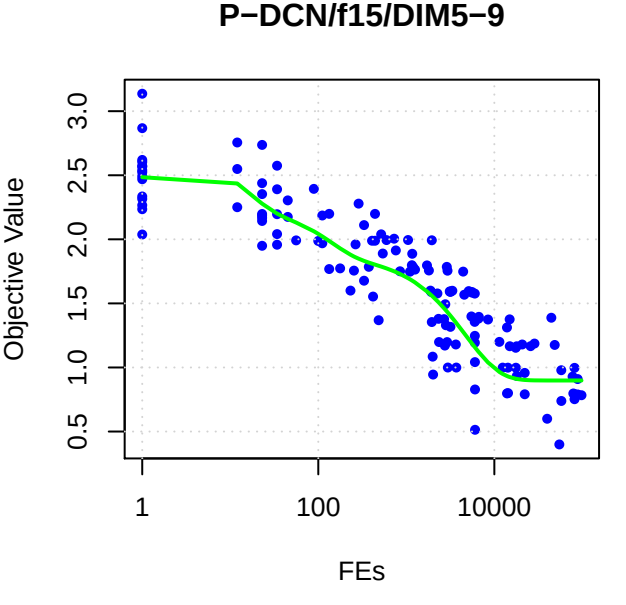
1.5
2.0
2.5
3.0
1
100
10000
FEs


P−DCN/f15/DIM5−9
Objective Value
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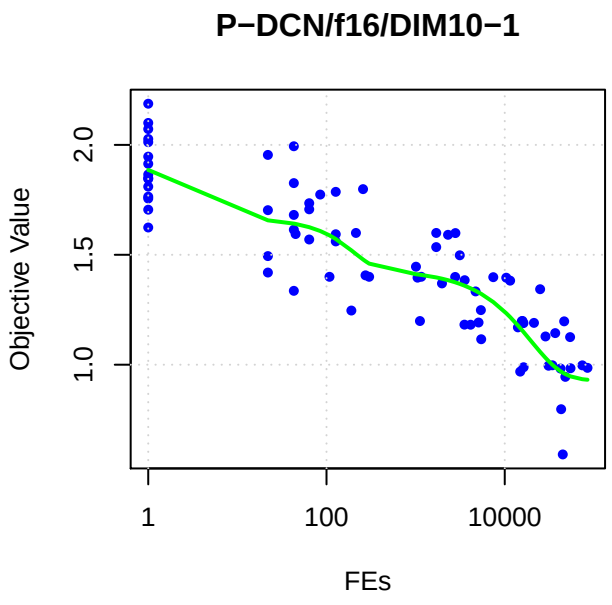
1.5
2.0
2.5
3.0
1
100
10000
FEs


P−DCN/f16/DIM10−1
Objective Value
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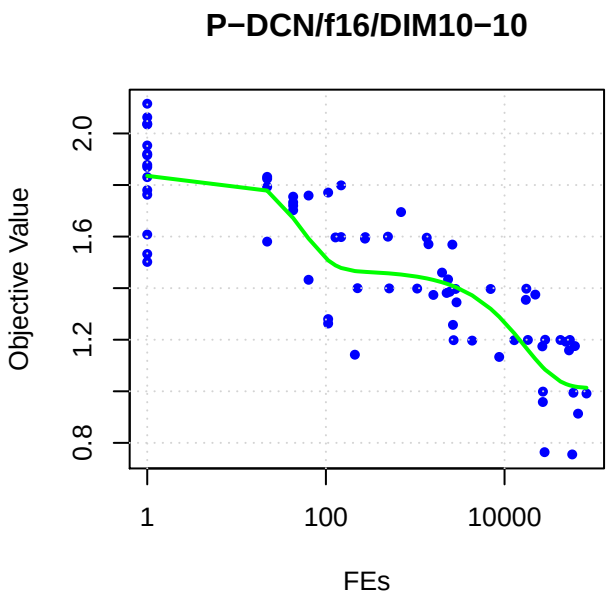
1.0
1
100
10000
FEs


P−DCN/f16/DIM10−10
Objective Value
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1.6
1.2
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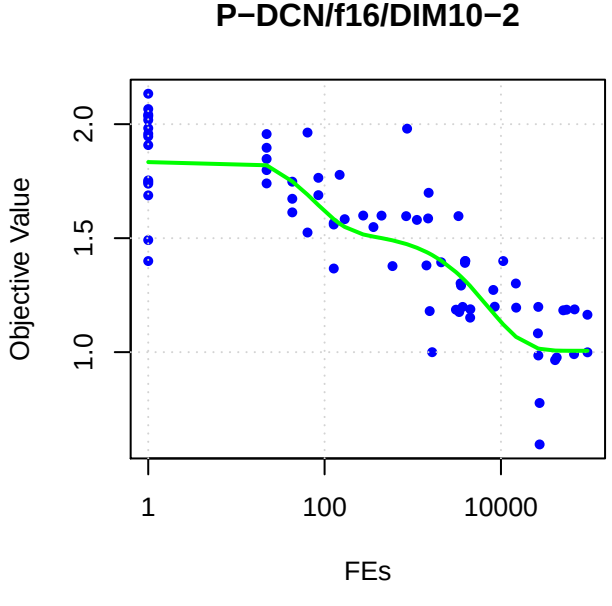
1
100
10000
FEs


P−DCN/f16/DIM10−2
Objective Value
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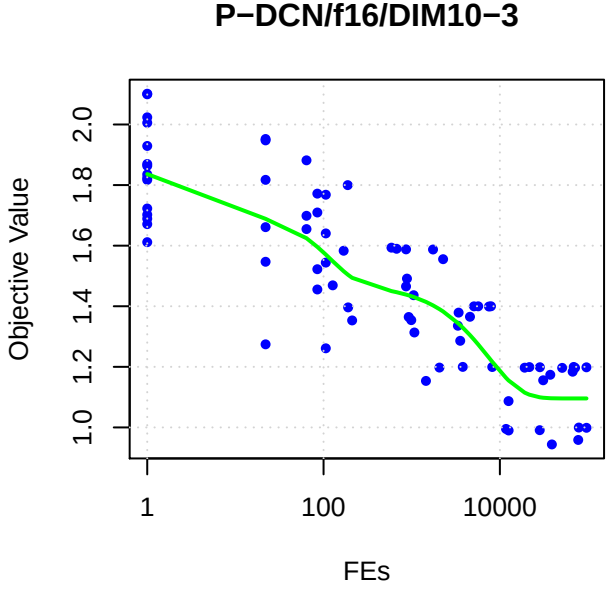
1.5
1.0
1
100
10000
FEs


P−DCN/f16/DIM10−3
Objective Value
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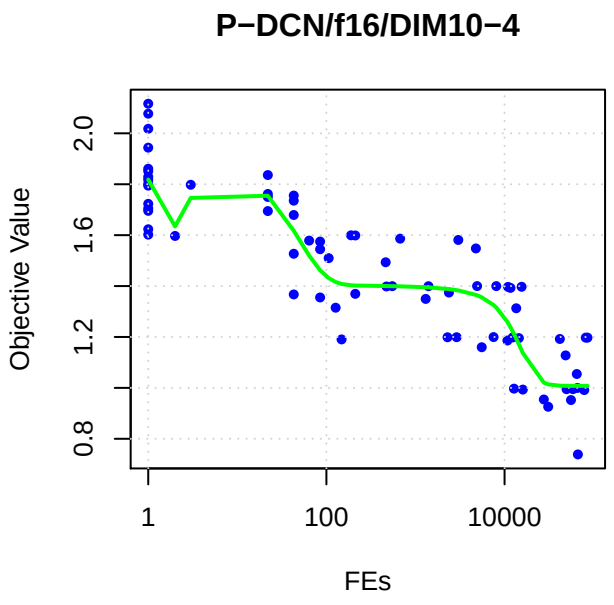
1.8
1.6
1.4
1.2
1.0
1
100
10000
FEs


P−DCN/f16/DIM10−4
Objective Value
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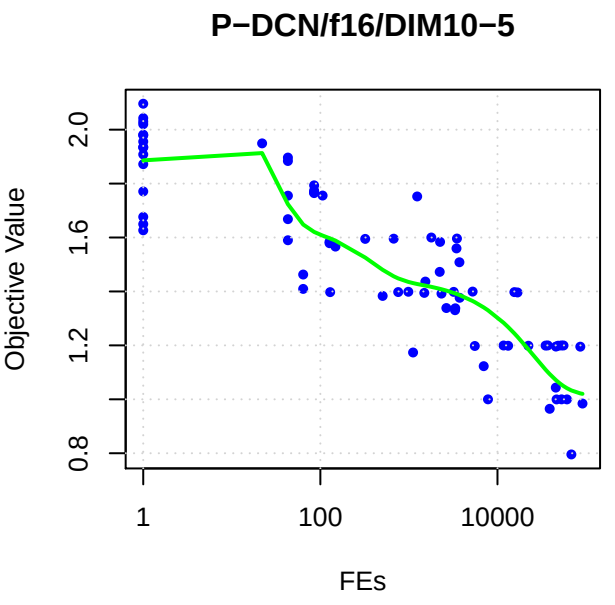
1.2
1.6
2.0
1
100
10000
FEs


P−DCN/f16/DIM10−5
Objective Value
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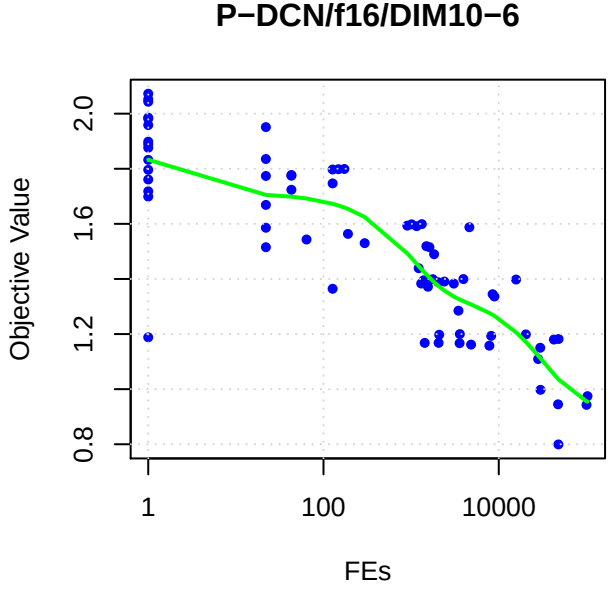
1.2
1.6
2.0
1
100
10000
FEs


P−DCN/f16/DIM10−6
Objective Value
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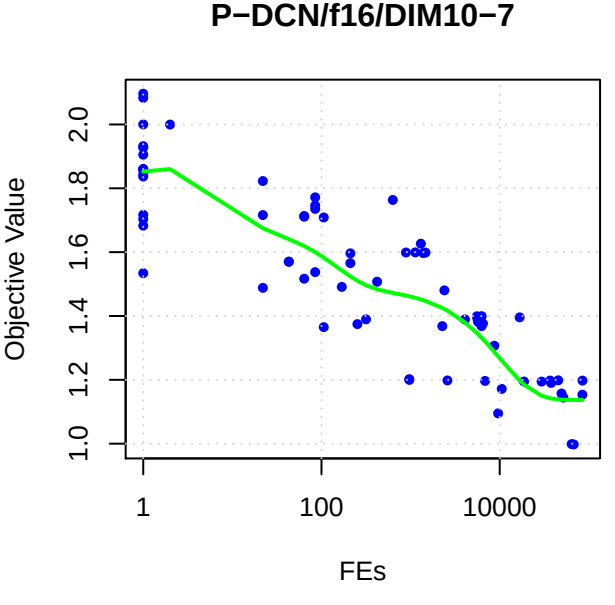
1.2
1.6
2.0
1
100
10000
FEs


P−DCN/f16/DIM10−7
Objective Value
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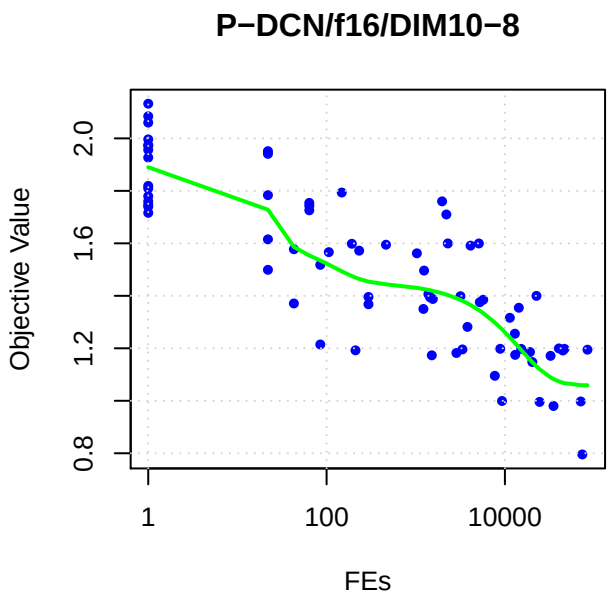
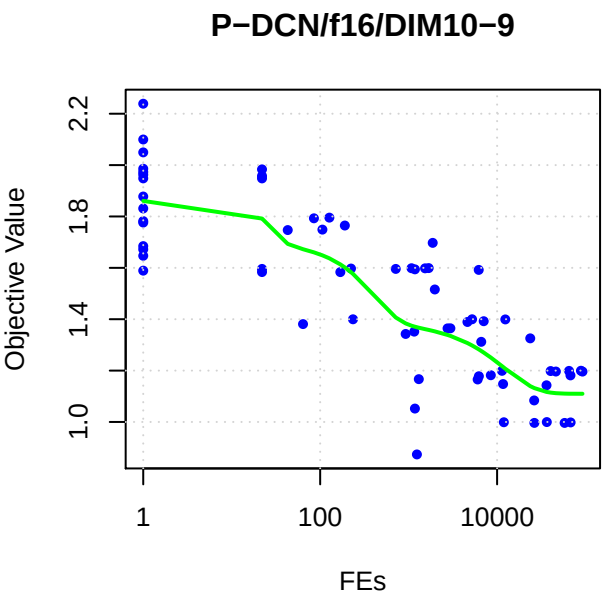
1.2
1.4
1.6
1.8
2.0
1
100
10000
FEs


P−DCN/f16/DIM10−8
Objective Value
0.8
1.2
1.6
2.0
1
100
10000
FEs


P−DCN/f16/DIM10−9
Objective Value
1.0
1.4
1.8
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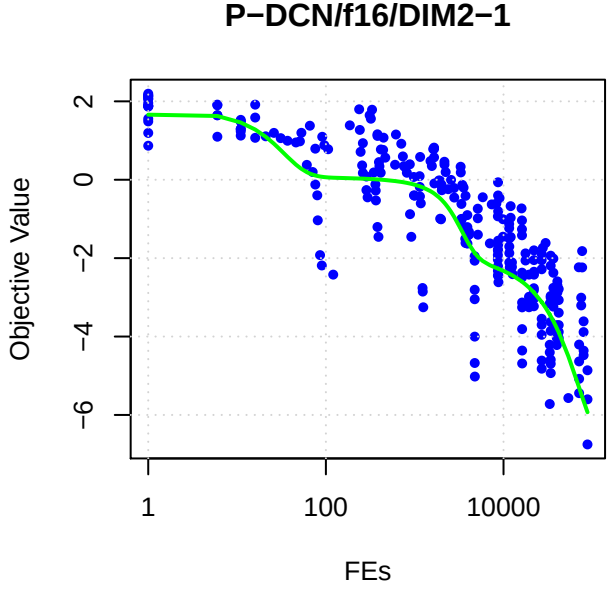
1
100
10000
FEs


P−DCN/f16/DIM2−1
Objective Value
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−4
−2
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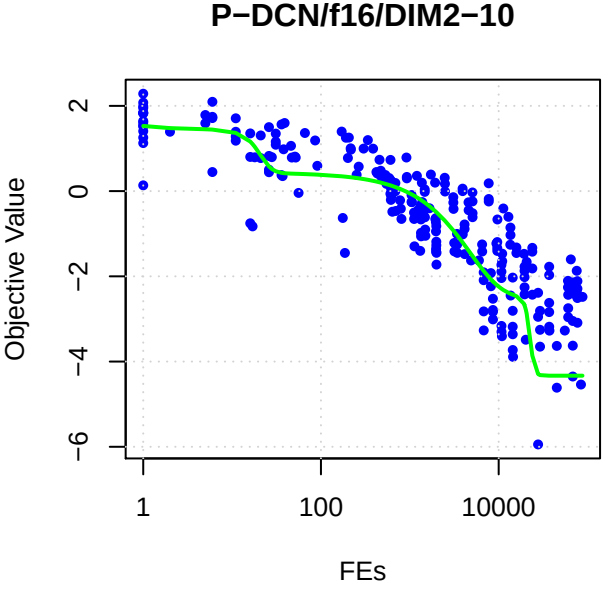
2
1
100
10000
FEs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Objective Value
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−2
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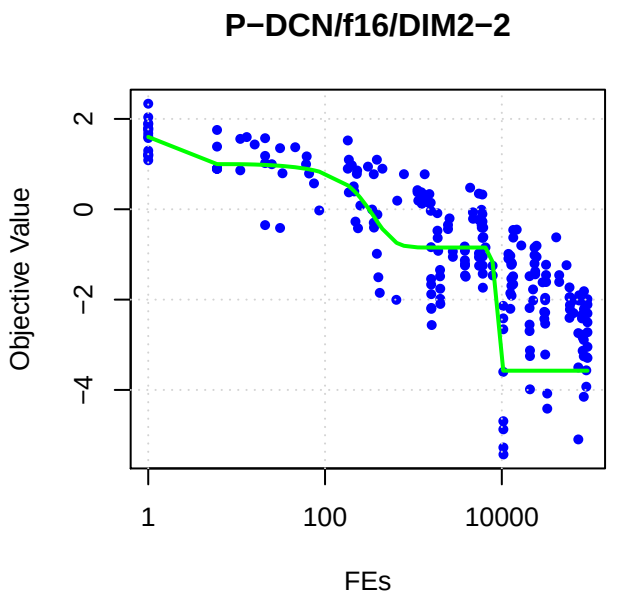
1
100
10000
FEs


P−DCN/f16/DIM2−2
Objective Value
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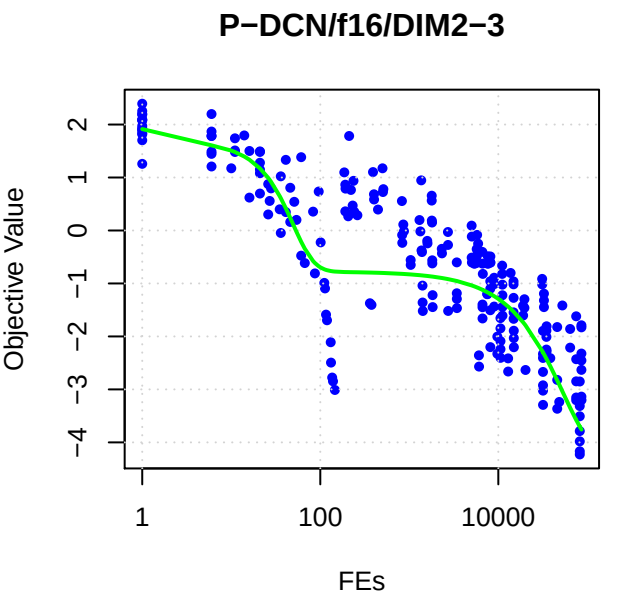
−4
1
100
10000
FEs


P−DCN/f16/DIM2−3
Objective Value
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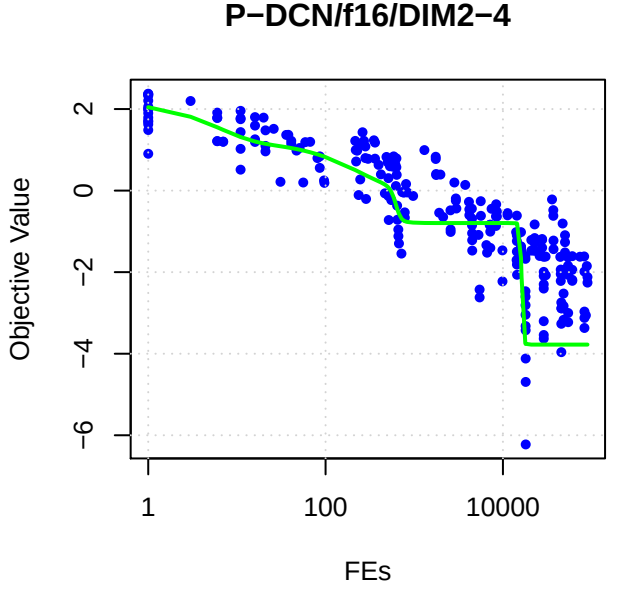
0
−1
−2
−3
−4
1
100
10000
FEs


P−DCN/f16/DIM2−4
Objective Value
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−2
−4
−6
1
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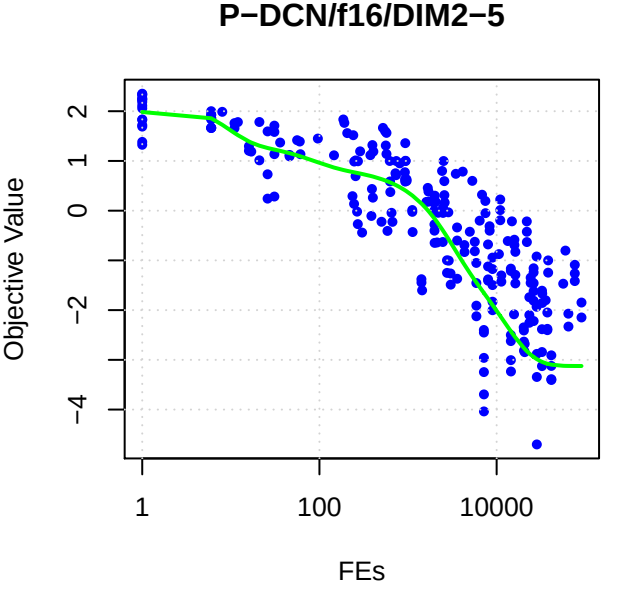
10000
FEs


P−DCN/f16/DIM2−5
Objective Value
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0
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−4
1
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10000
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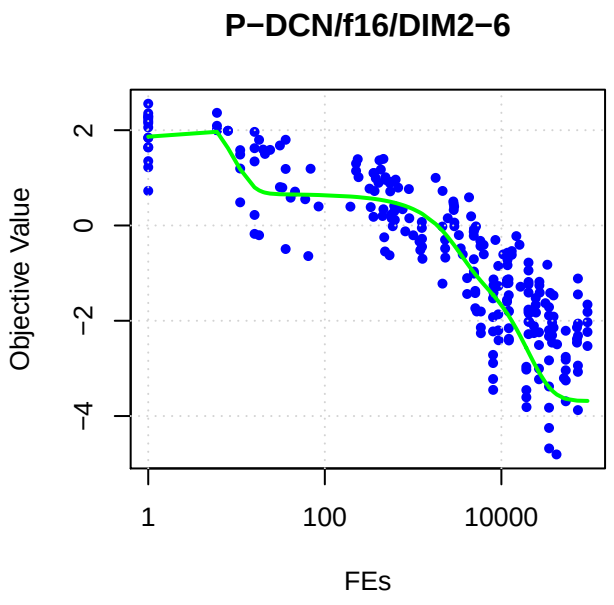
P−DCN/f16/DIM2−6
Objective Value
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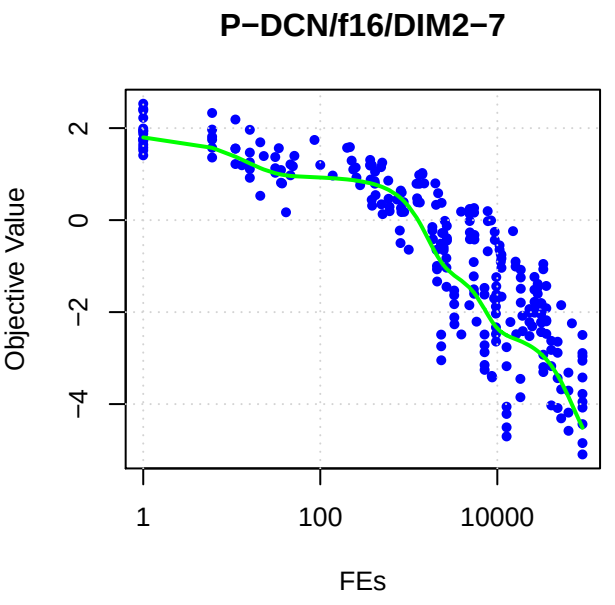
−2
−4
1
100
10000
FEs


P−DCN/f16/DIM2−7
Objective Value
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−2
−4
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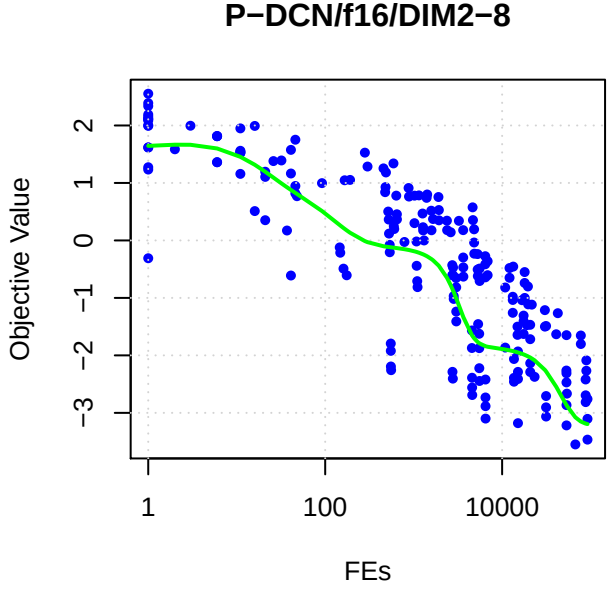
100
10000
FEs


P−DCN/f16/DIM2−8
Objective Value
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1
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−1
−2
−3
1
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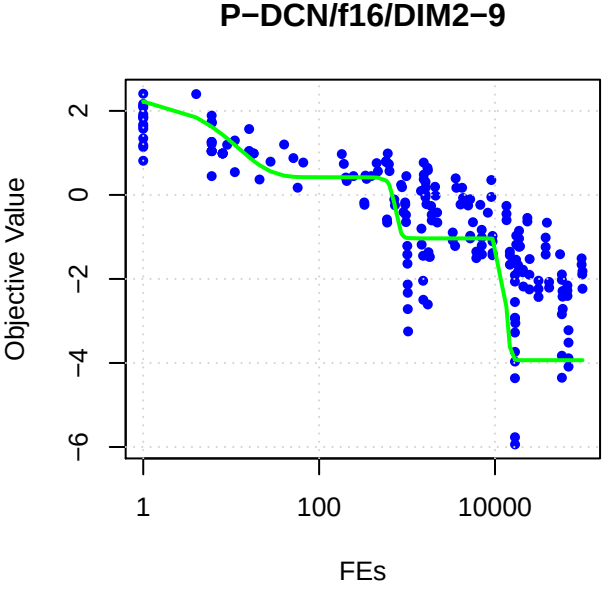
10000
FEs


P−DCN/f16/DIM2−9
Objective Value
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−2
−4
−6
1
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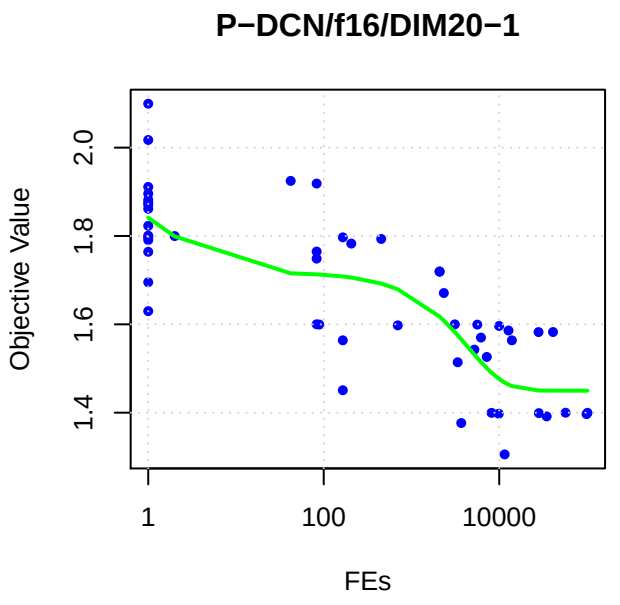
10000
FEs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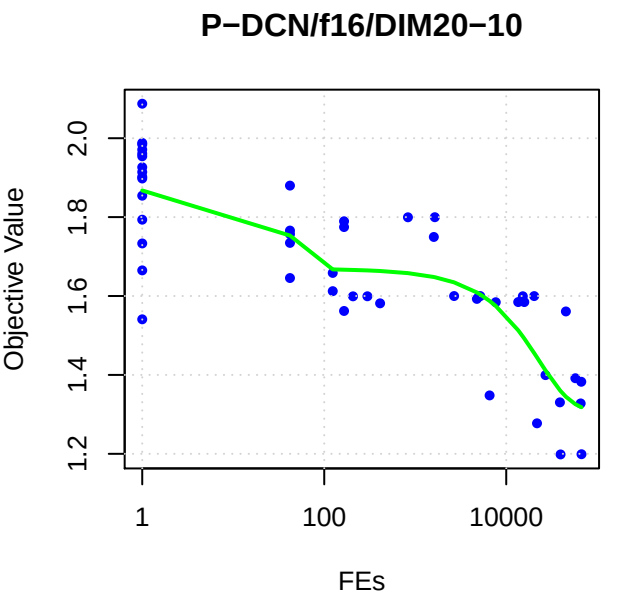
Objective Value
2.0
1.8
1.6
1.4
1
100
10000
FEs


P−DCN/f16/DIM20−10
Objective Value
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1.8
1.6
1.4
1.2
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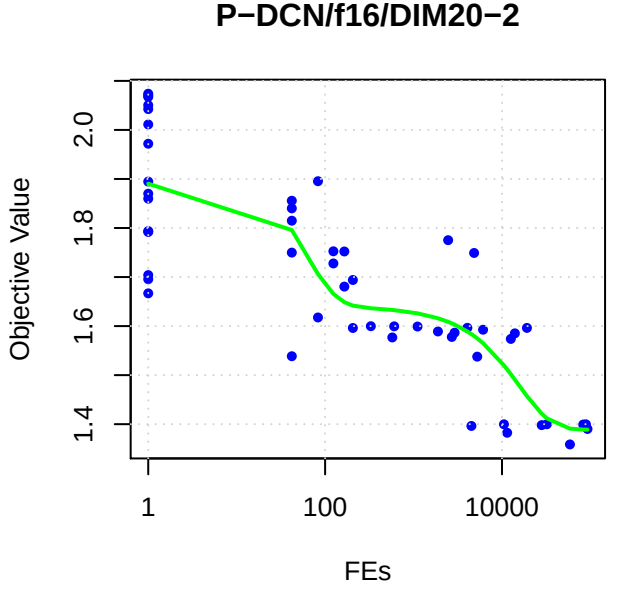
100
10000
FEs


P−DCN/f16/DIM20−2
Objective Value
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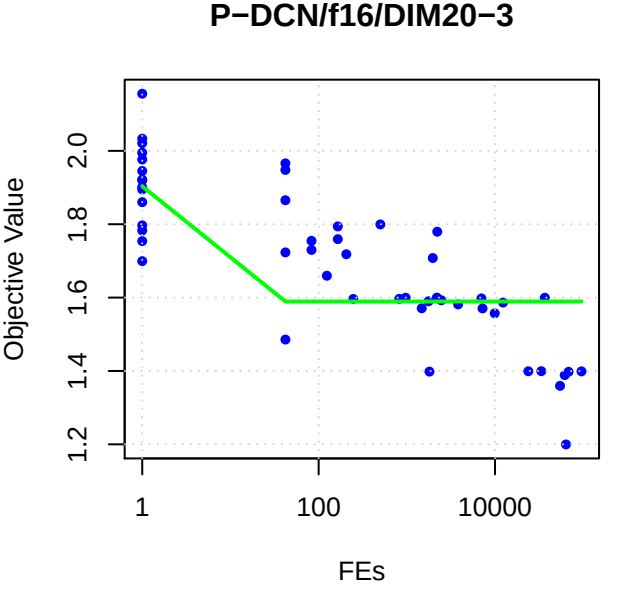
1.8
1.6
1.4
1
100
10000
FEs


P−DCN/f16/DIM20−3
Objective Value
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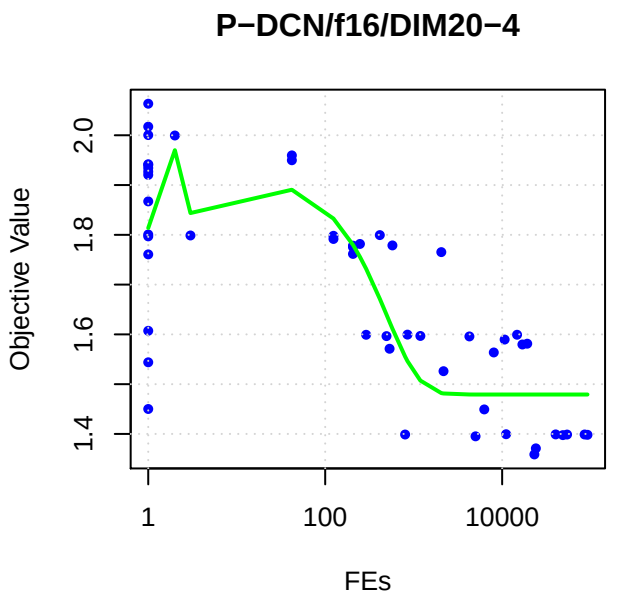
1.8
1.6
1.4
1.2
1
100
10000
FEs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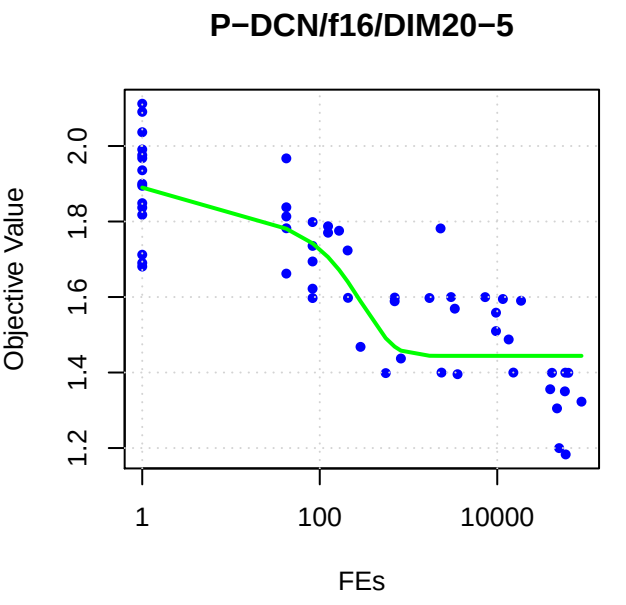
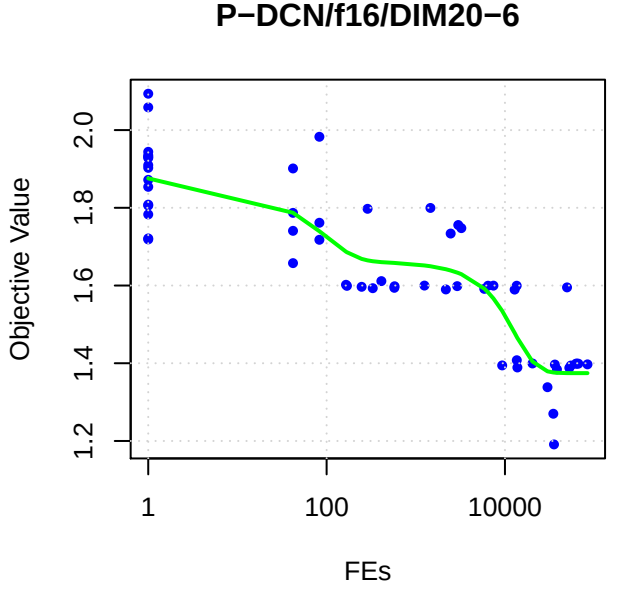
Objective Value
2.0
1.8
1.6
1.4
1
100
10000
FEs


P−DCN/f16/DIM20−5
Objective Value
2.0
1.8
1.6
1.4
1.2
1
100
10000
FEs


P−DCN/f16/DIM20−6
Objective Value
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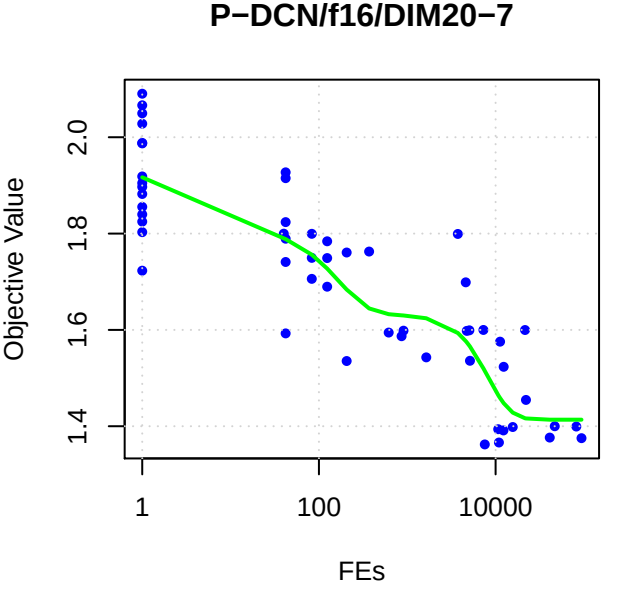
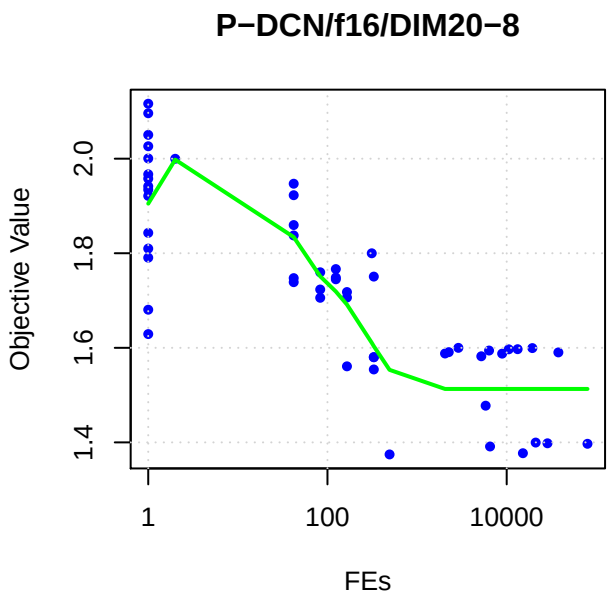
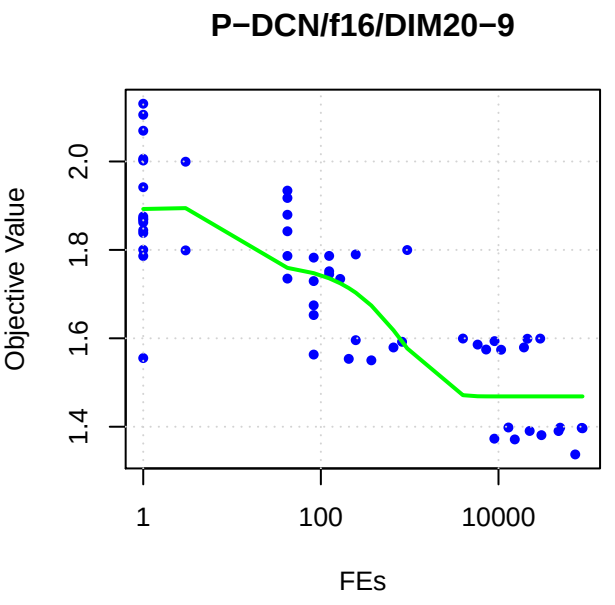
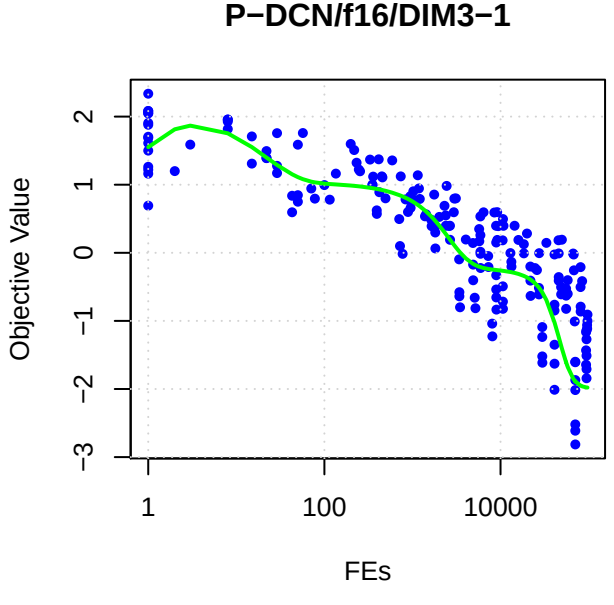
1.8
1.6
1.4
1.2
1
100
10000
FEs


P−DCN/f16/DIM20−7
Objective Value
2.0
1.8
1.6
1.4
1
100
10000
FEs


P−DCN/f16/DIM20−8
Objective Value
2.0
1.8
1.6
1.4
1
100
10000
FEs


P−DCN/f16/DIM20−9
Objective Value
2.0
1.8
1.6
1.4
1
100
10000
FEs


P−DCN/f16/DIM3−1
Objective Value
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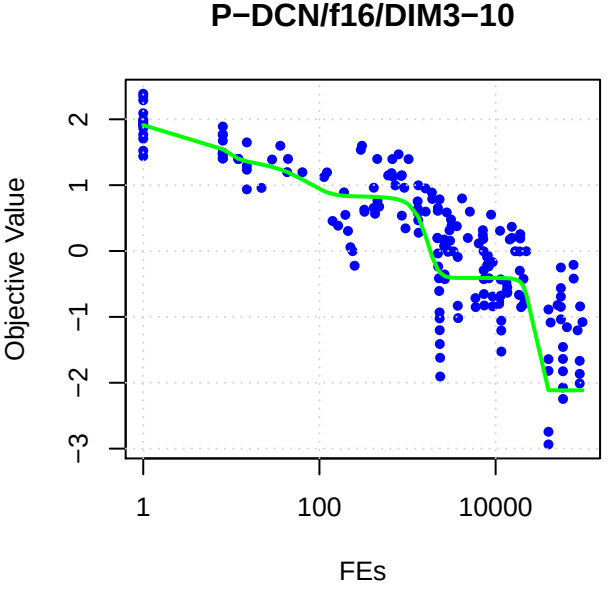
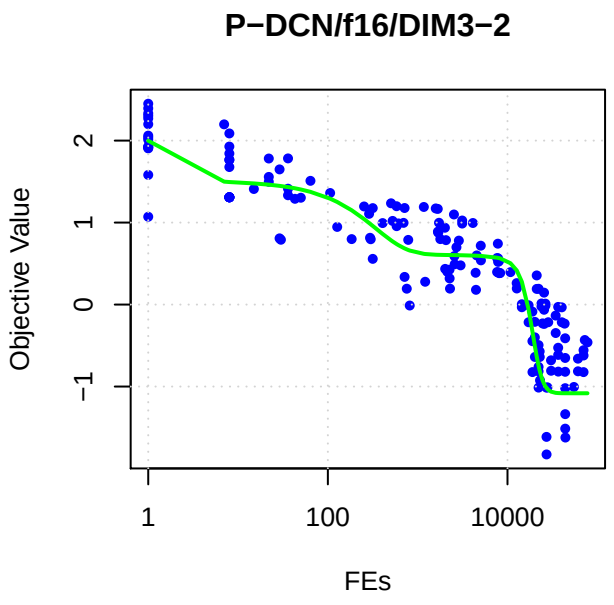
1
0
−1
−2
−3
1
100
10000
FEs


P−DCN/f16/DIM3−10
Objective Value
2
1
0
−1
−2
−3
1
100
10000
FEs


P−DCN/f16/DIM3−2
Objective Value
FEs
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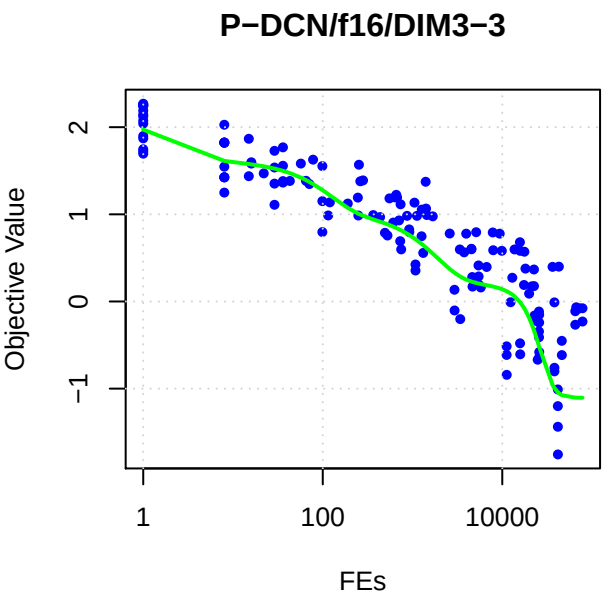
100
10000
−1
0
1
2


P−DCN/f16/DIM3−3
Objective Value
FEs
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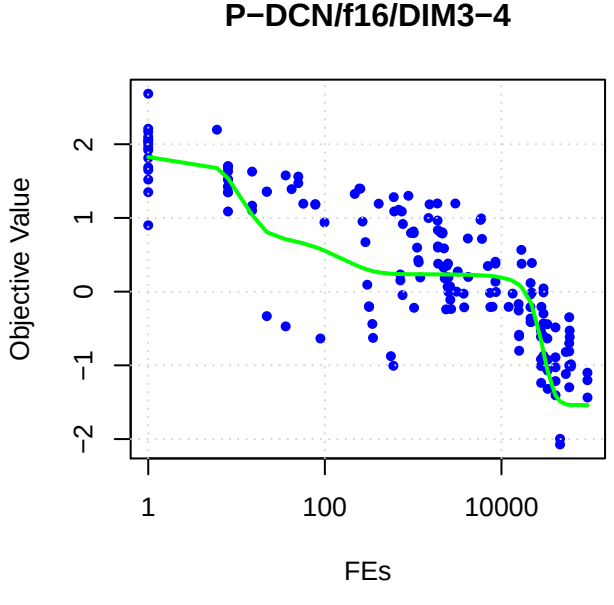
100
10000
−1
0
1
2


P−DCN/f16/DIM3−4
Objective Value
FEs
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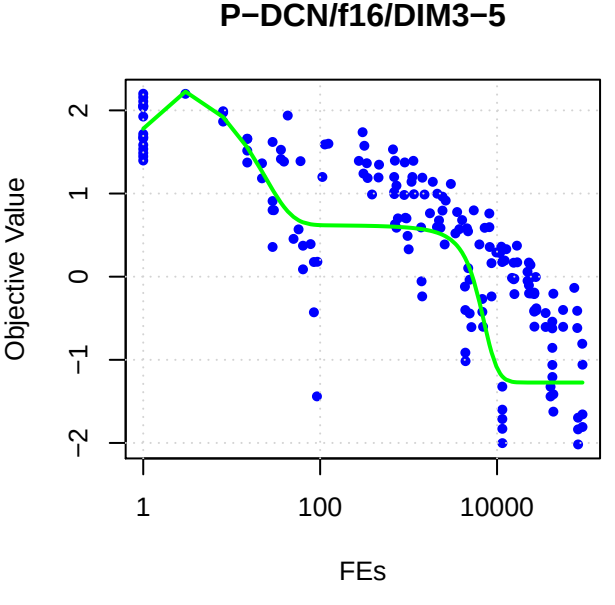
100
10000
−2
−1
0
1
2


P−DCN/f16/DIM3−5
Objective Value
FEs
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100
10000
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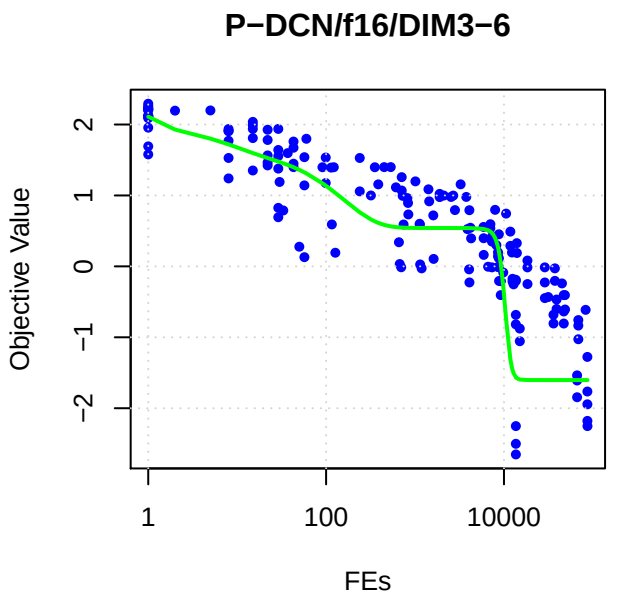
−1
0
1
2


P−DCN/f16/DIM3−6
Objective Value
FEs
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10000
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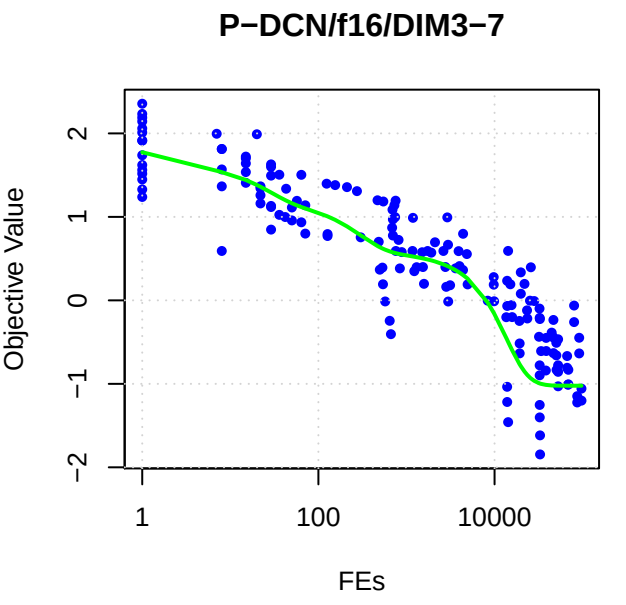
1
0
−1
−2


P−DCN/f16/DIM3−7
Objective Value
FEs
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10000
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0
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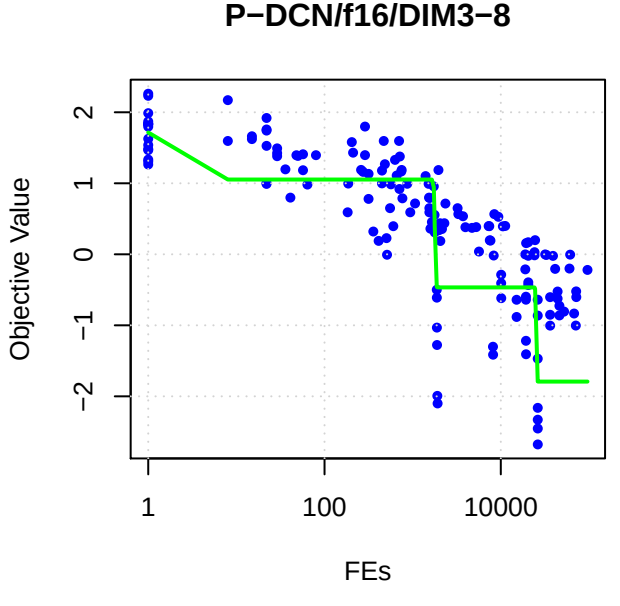
−2


P−DCN/f16/DIM3−8
Objective Value
FEs
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100
10000
2
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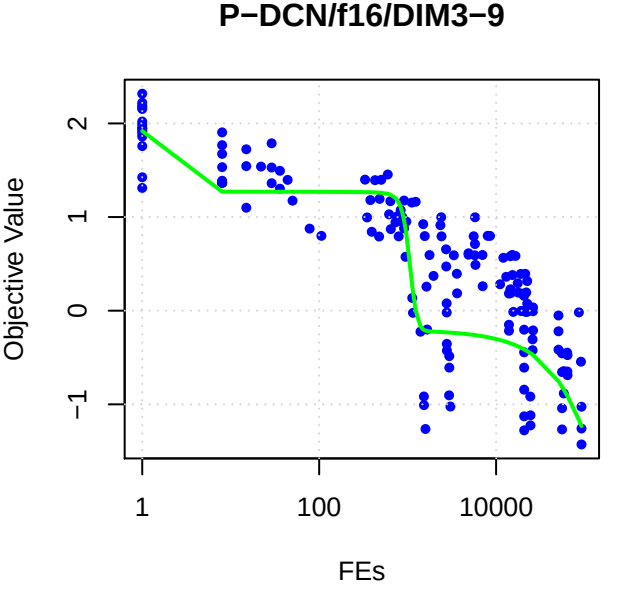
0
−1
−2


P−DCN/f16/DIM3−9
Objective Value
FEs
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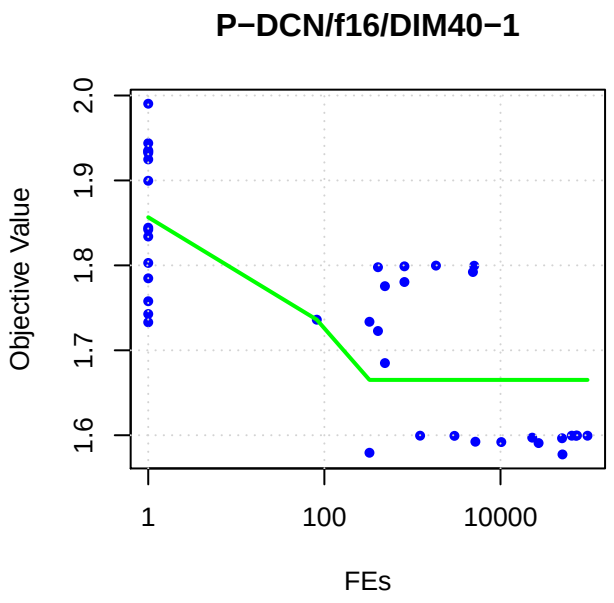
100
10000
2
1
0
−1


P−DCN/f16/DIM40−1
Objective Value
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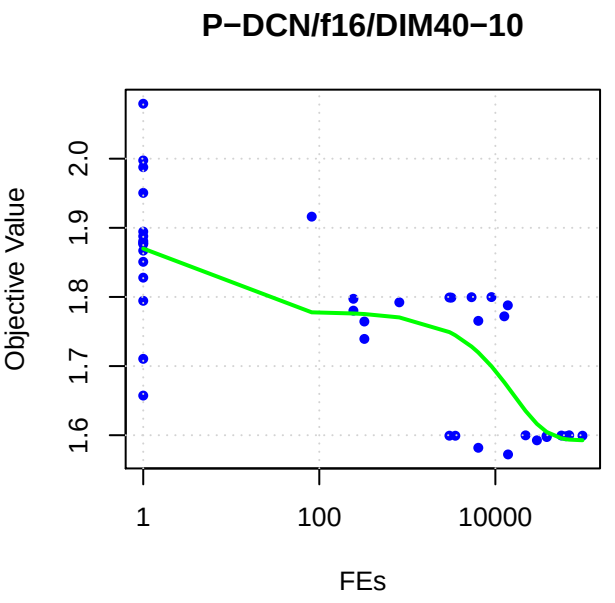
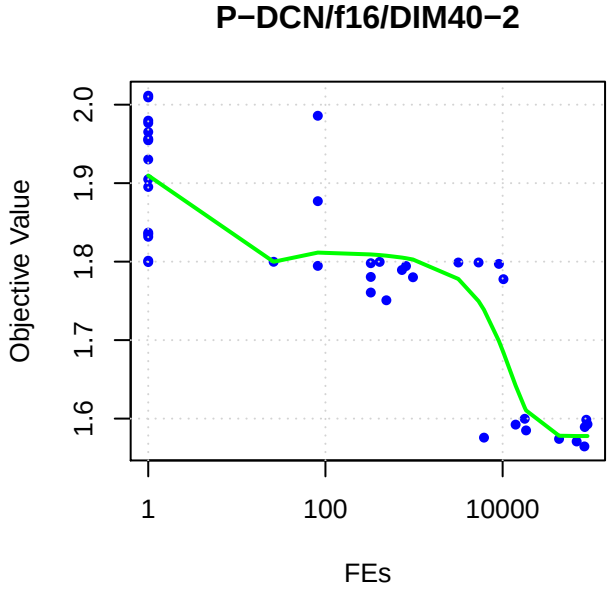
1.9
1.8
1.7
1.6
1
100
10000
FEs


P−DCN/f16/DIM40−10
Objective Value
2.0
1.9
1.8
1.7
1.6
1
100
10000
FEs


P−DCN/f16/DIM40−2
Objective Value
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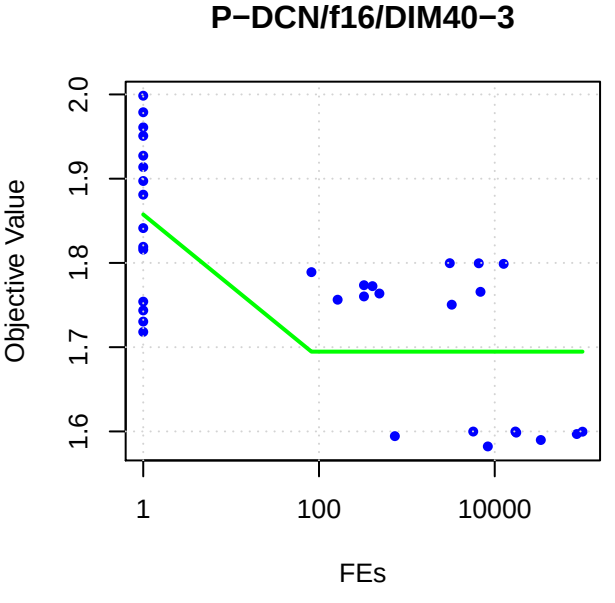
1.8
1.7
1.6
1
100
10000
FEs


P−DCN/f16/DIM40−3
Objective Value
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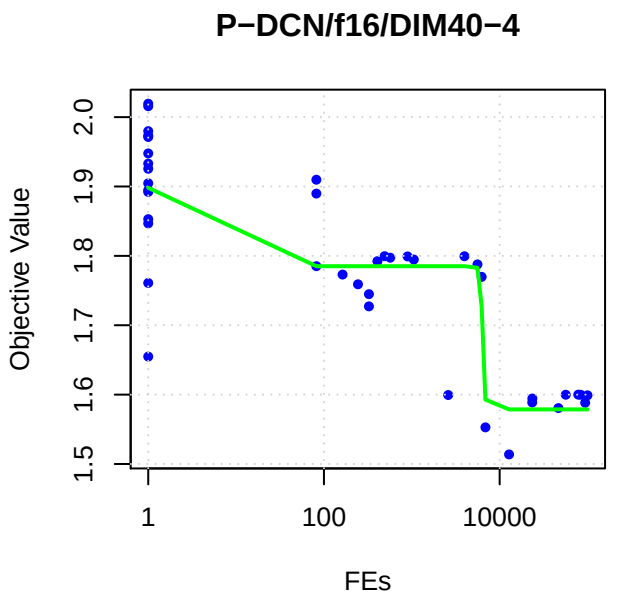
1.9
1.8
1.7
1.6
1
100
10000
FEs


P−DCN/f16/DIM40−4
Objective Value
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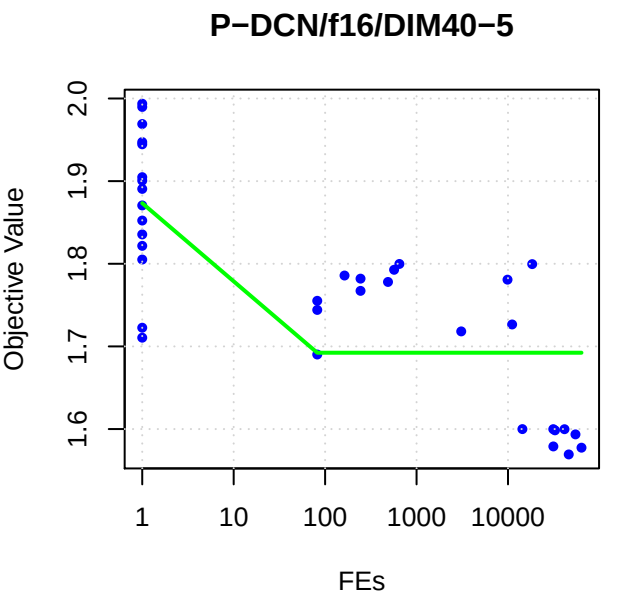
1.9
1.8
1.7
1.6
1.5
1
100
10000
FEs


P−DCN/f16/DIM40−5
Objective Value
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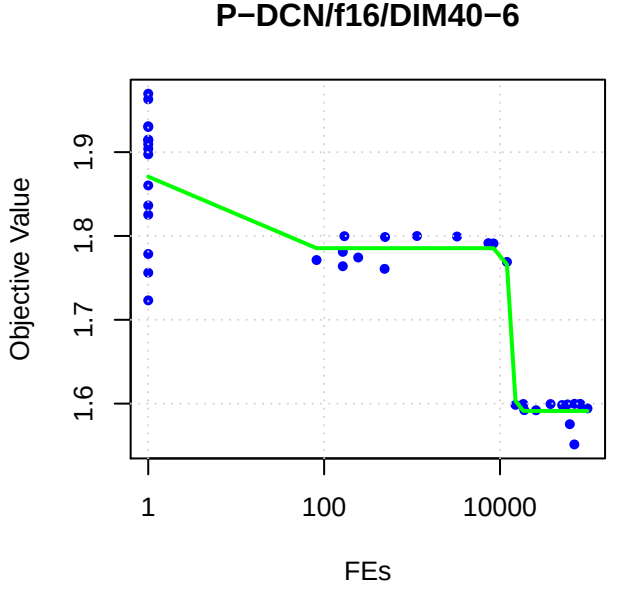
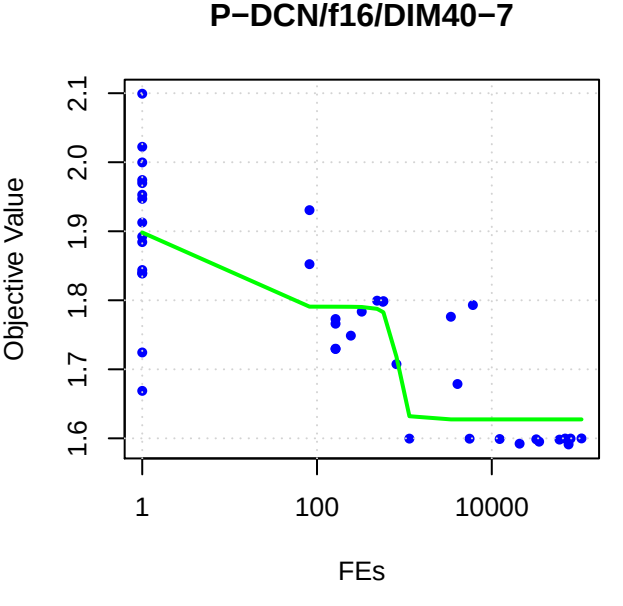
1.9
1.8
1.7
1.6
1
10
100
1000
10000
FEs


P−DCN/f16/DIM40−6
Objective Value
1.9
1.8
1.7
1.6
1
100
10000
FEs


P−DCN/f16/DIM40−7
Objective Value
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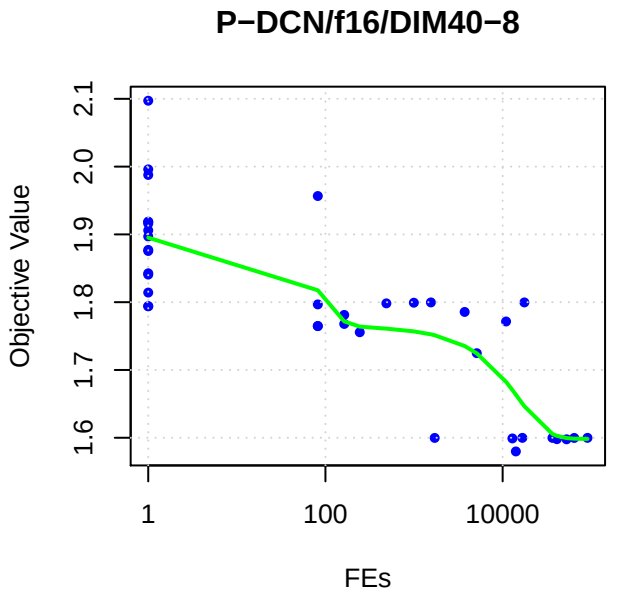
2.0
1.9
1.8
1.7
1.6
1
100
10000
FEs


P−DCN/f16/DIM40−8
Objective Value
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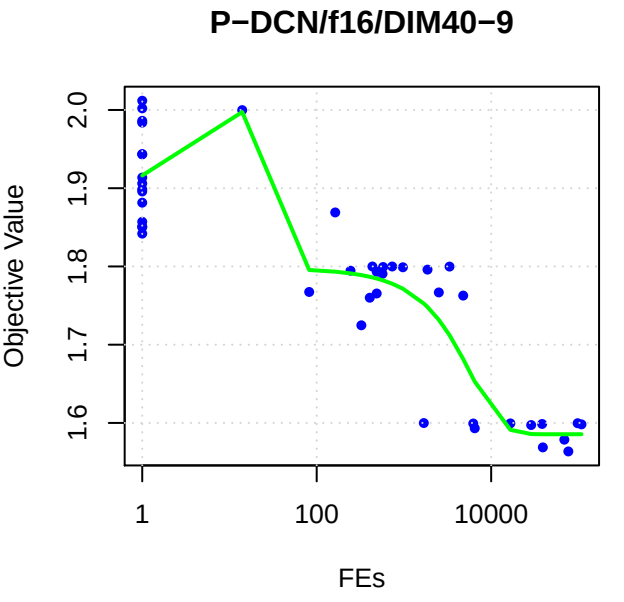
1.7
1.8
1.9
2.0
2.1
1
100
10000
FEs


P−DCN/f16/DIM40−9
Objective Value
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1.7
1.8
1.9
2.0
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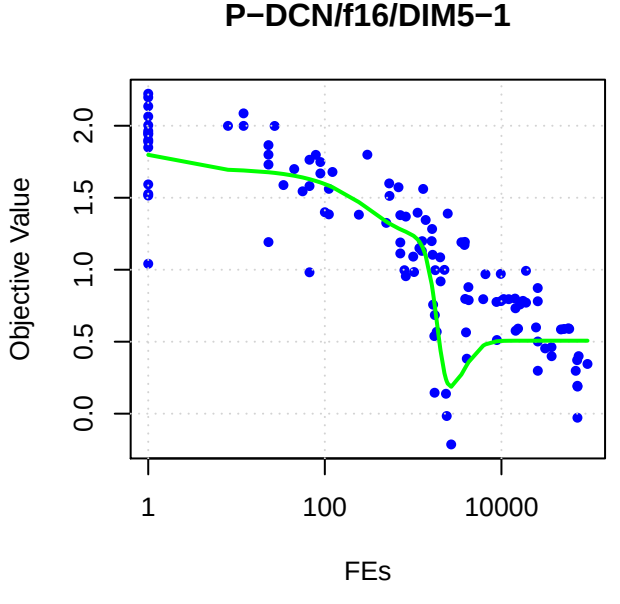
100
10000
FEs


P−DCN/f16/DIM5−1
Objective Value
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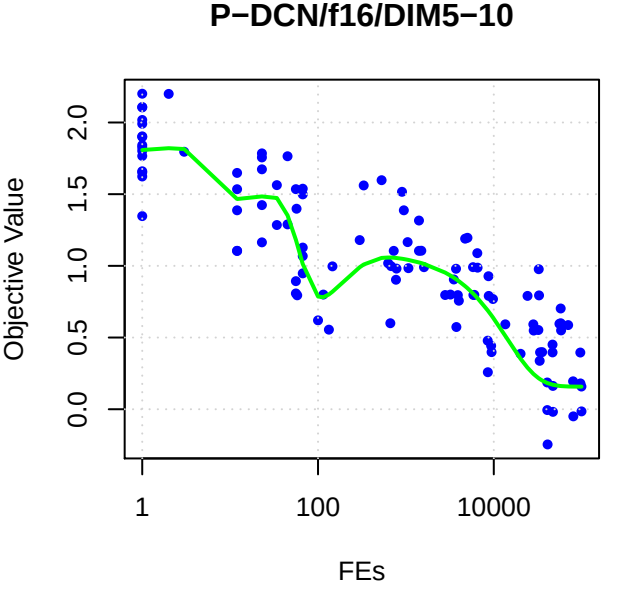
0.5
1.0
1.5
2.0
1
100
10000
FEs


P−DCN/f16/DIM5−10
Objective Value
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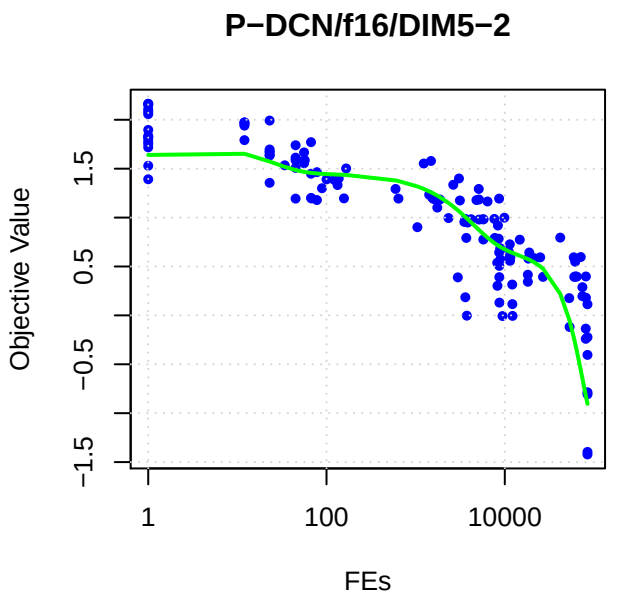
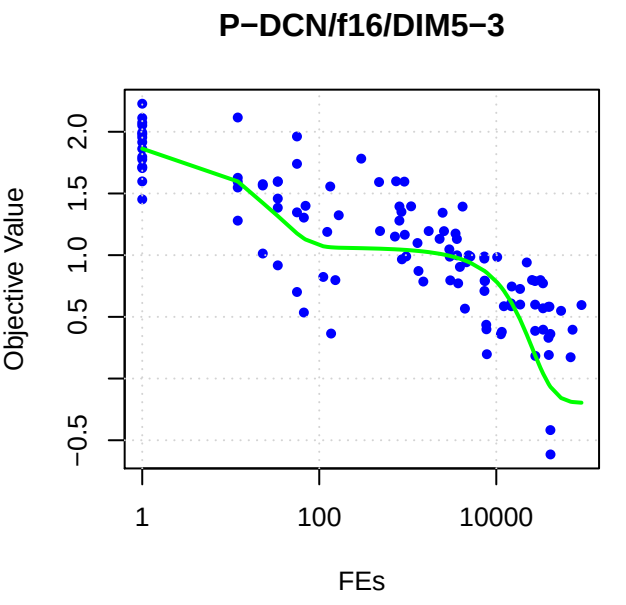
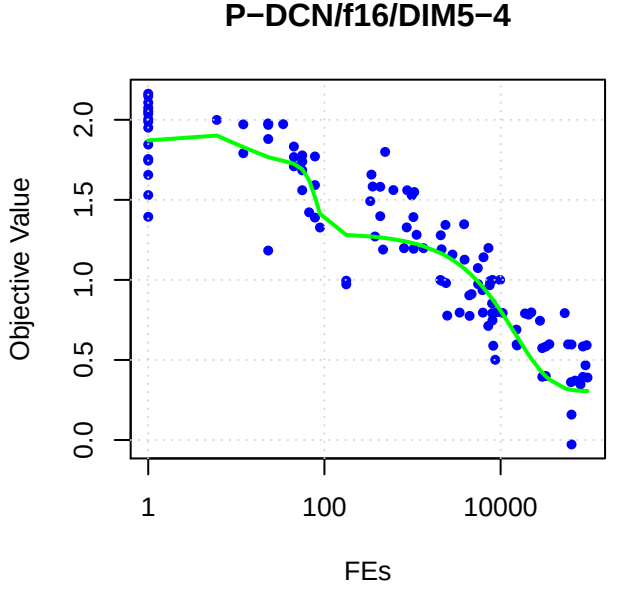
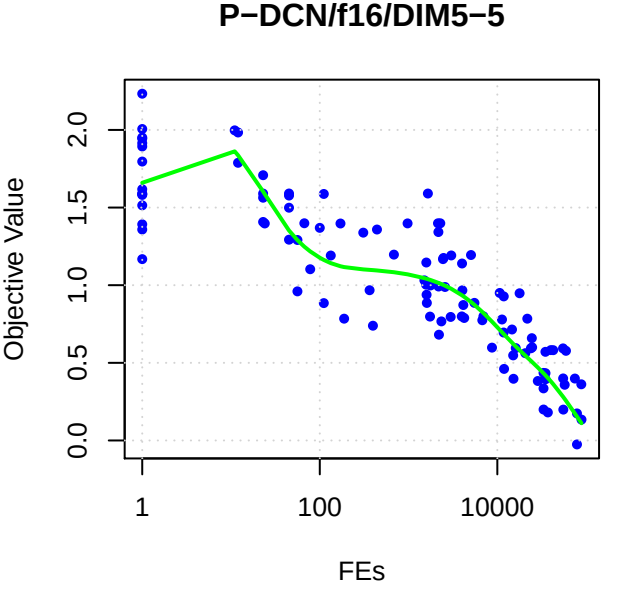
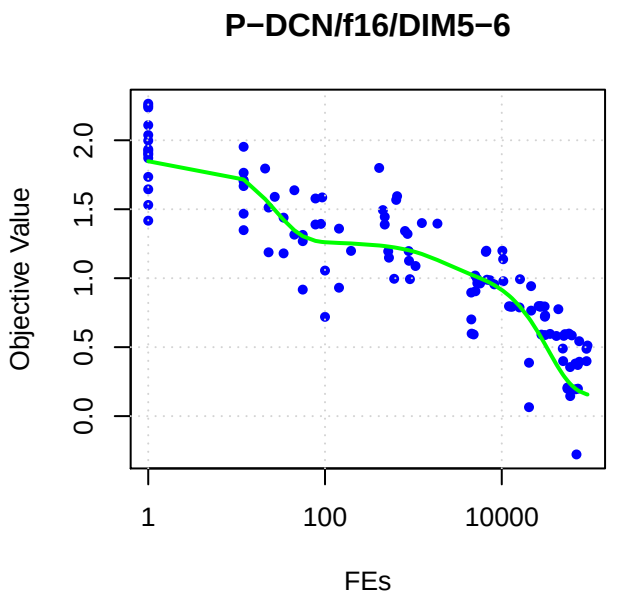
0.5
1.0
1.5
2.0
1
100
10000
FEs


P−DCN/f16/DIM5−2
Objective Value
1.5
0.5
−0.5
−1.5
1
100
10000
FEs


P−DCN/f16/DIM5−3
Objective Value
2.0
1.5
1.0
0.5
−0.5
1
100
10000
FEs


P−DCN/f16/DIM5−4
Objective Value
2.0
1.5
1.0
0.5
0.0
1
100
10000
FEs


P−DCN/f16/DIM5−5
Objective Value
2.0
1.5
1.0
0.5
0.0
1
100
10000
FEs


P−DCN/f16/DIM5−6
Objective Value
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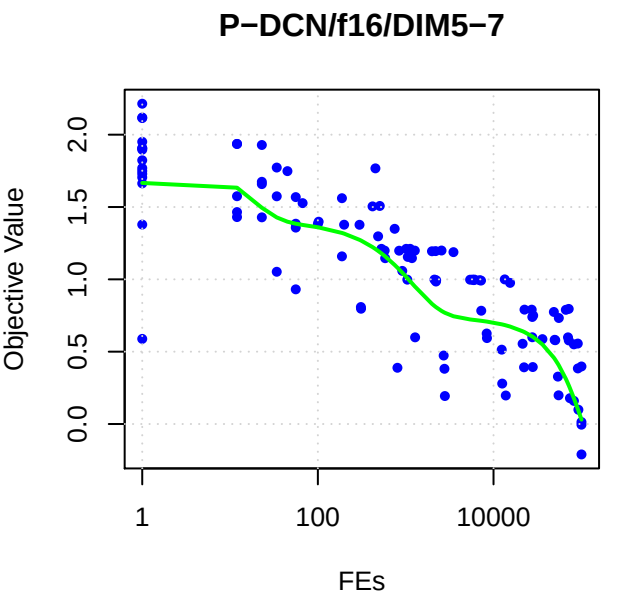
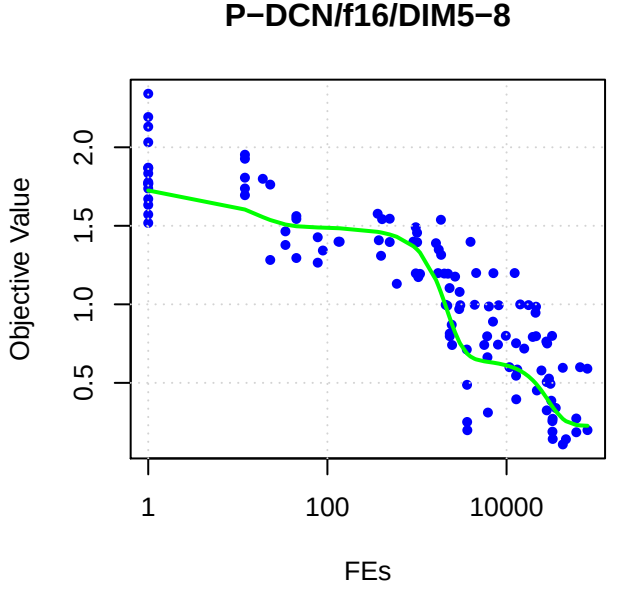
0.5
1.0
1.5
2.0
1
100
10000
FEs


P−DCN/f16/DIM5−7
Objective Value
0.0
0.5
1.0
1.5
2.0
1
100
10000
FEs


P−DCN/f16/DIM5−8
Objective Value
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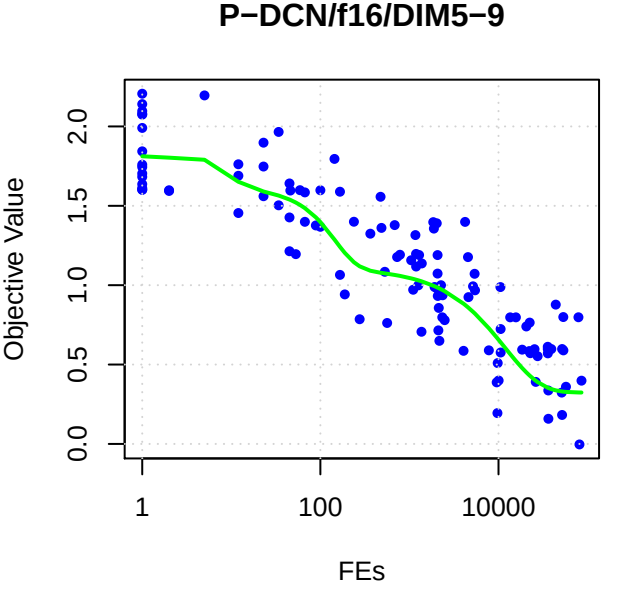
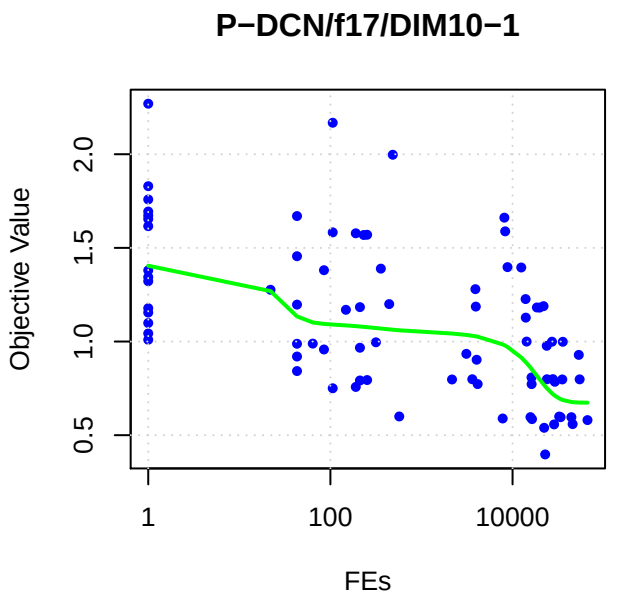
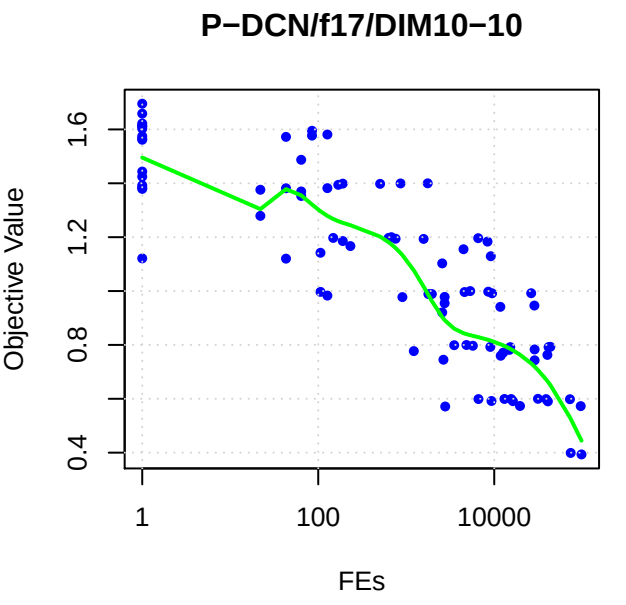
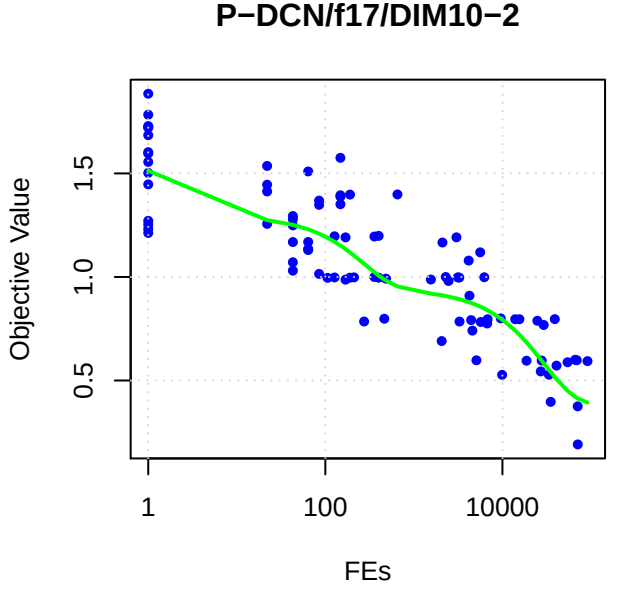
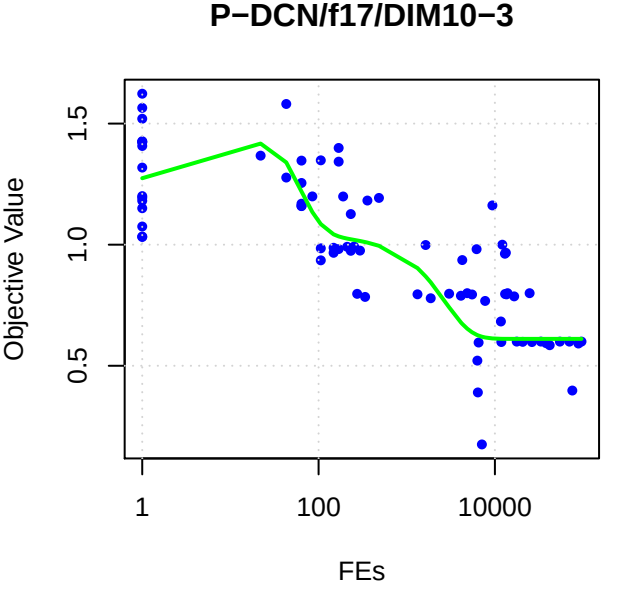
1.0
1.5
2.0
1
100
10000
FEs

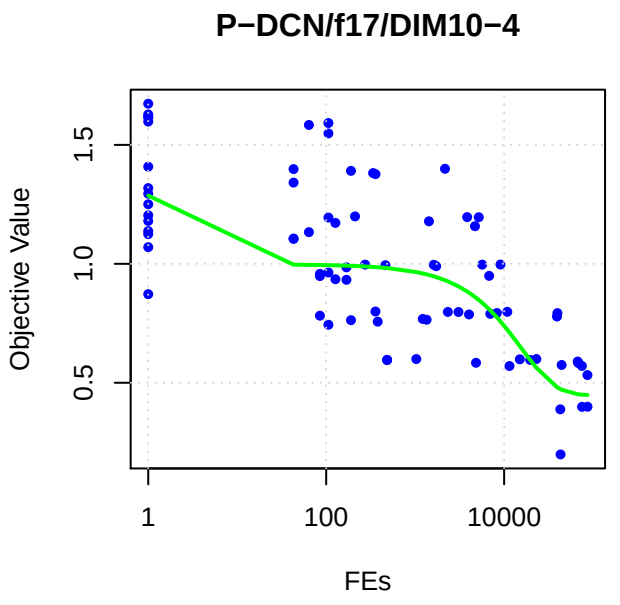

P−DCN/f16/DIM5−9
Objective Value
0.0
0.5
1.0
1.5
2.0
1
100
10000
FEs

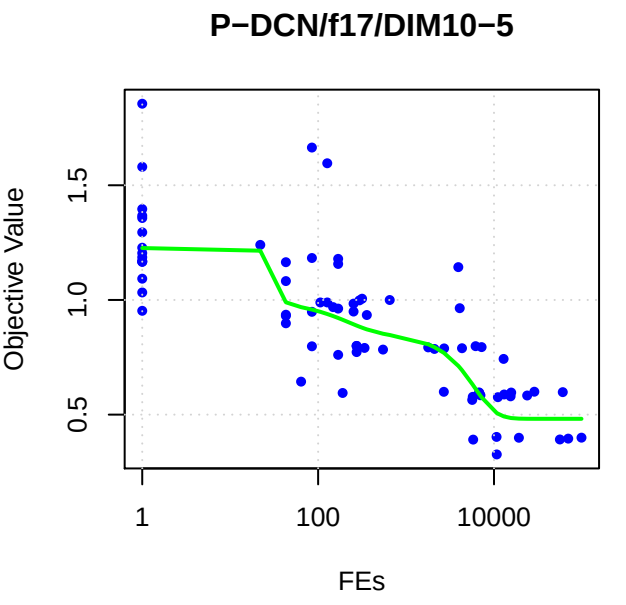

P−DCN/f17/DIM10−1
Objective Value
0.5
1.0
1.5
2.0
1
100
10000
FEs

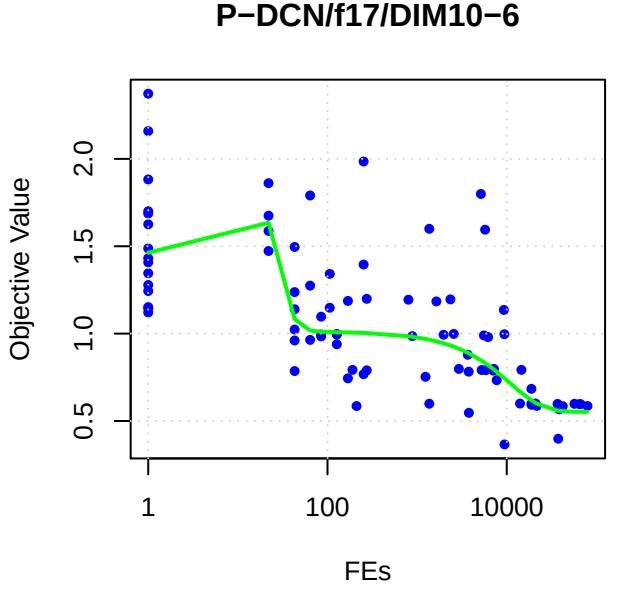

P−DCN/f17/DIM10−10
Objective Value
0.4
0.8
1.2
1.6
1
100
10000
FEs

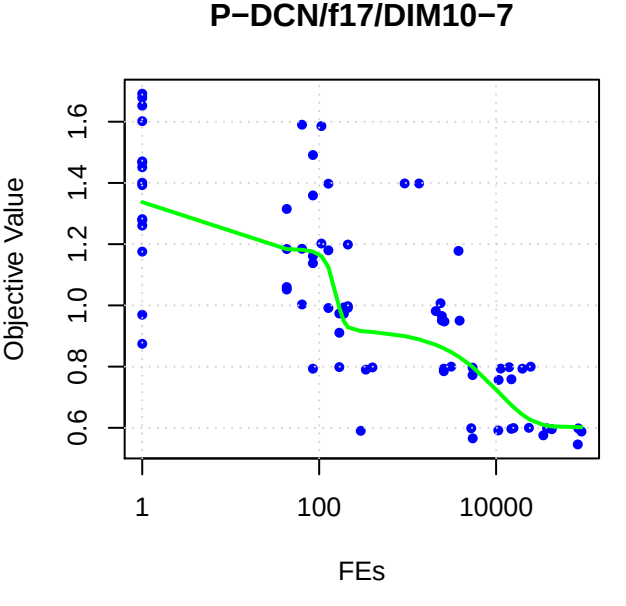

P−DCN/f17/DIM10−2
Objective Value
0.5
1.0
1.5
1
100
10000
FEs

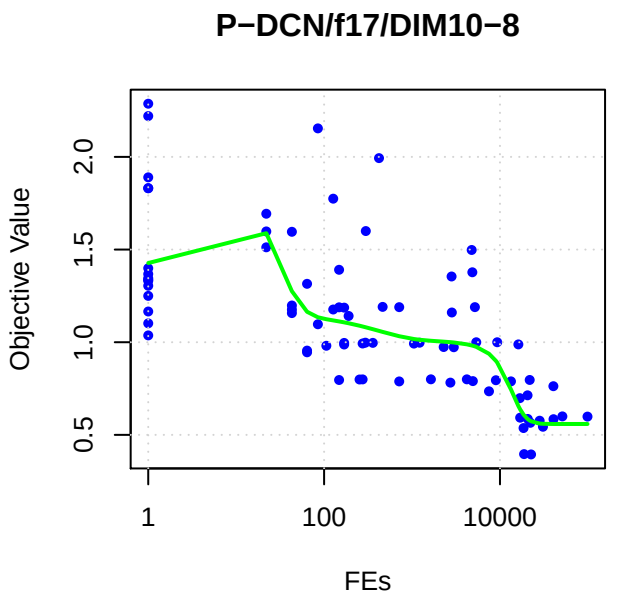

P−DCN/f17/DIM10−3
Objective Value
0.5
1.0
1.5
1
100
10000
FEs

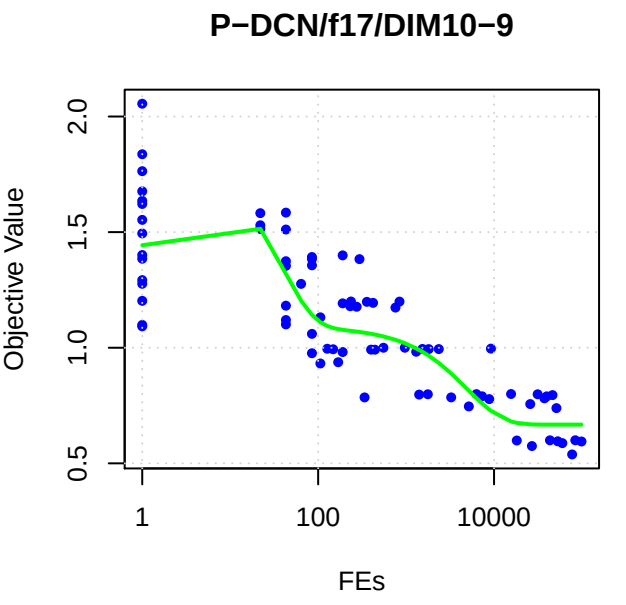

P−DCN/f17/DIM10−4
Objective Value
0.5
1.0
1.5
1
100
10000
FEs

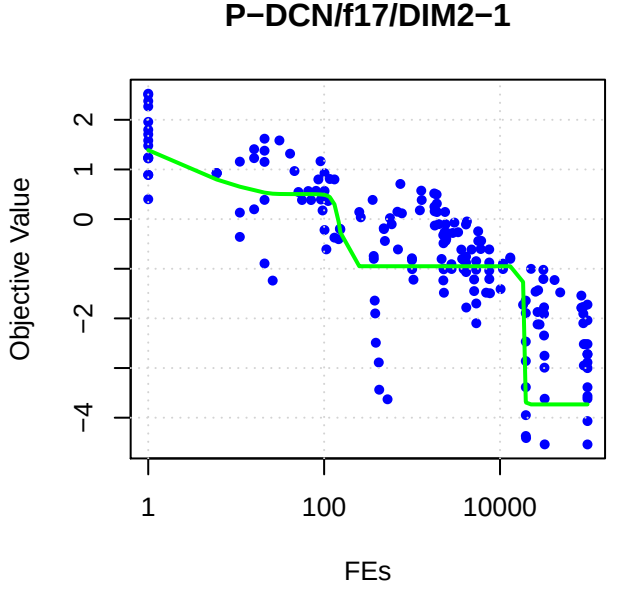

P−DCN/f17/DIM10−5
Objective Value
0.5
1.0
1.5
1
100
10000
FEs

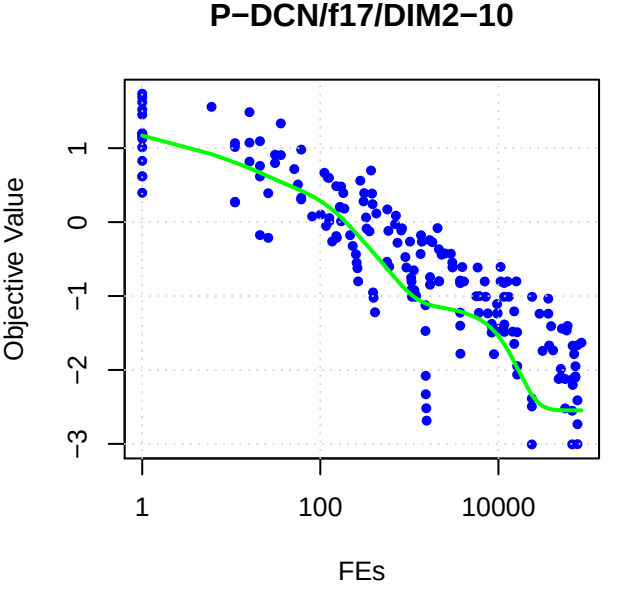

P−DCN/f17/DIM10−6
Objective Value
0.5
1.0
1.5
2.0
1
100
10000
FEs

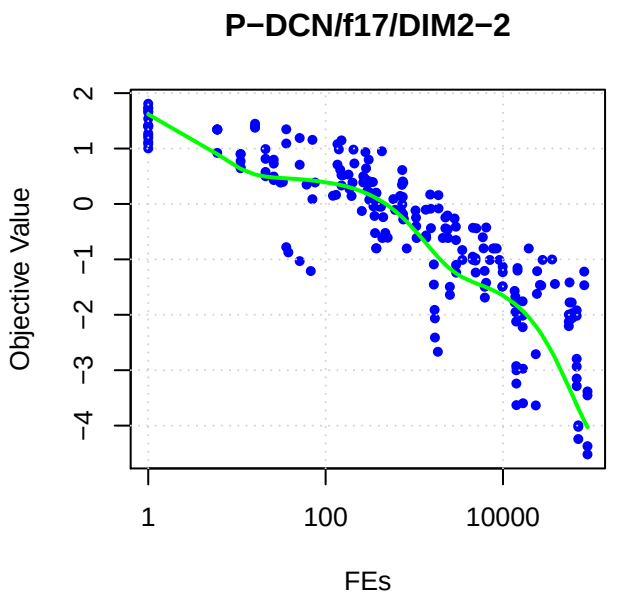

P−DCN/f17/DIM10−7
Objective Value
0.6
0.8
1.0
1.2
1.4
1.6
1
100
10000
FEs

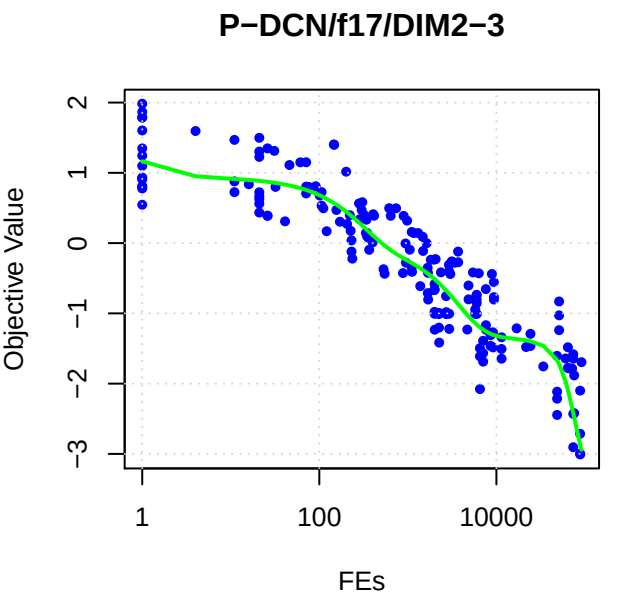

P−DCN/f17/DIM10−8
Objective Value
0.5
1.0
1.5
2.0
1
100
10000
FEs

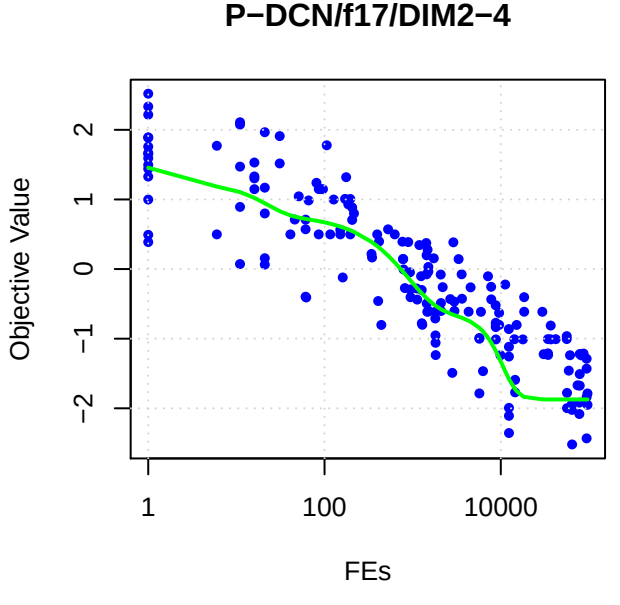

P−DCN/f17/DIM10−9
Objective Value
0.5
1.0
1.5
2.0
1
100
10000
FEs

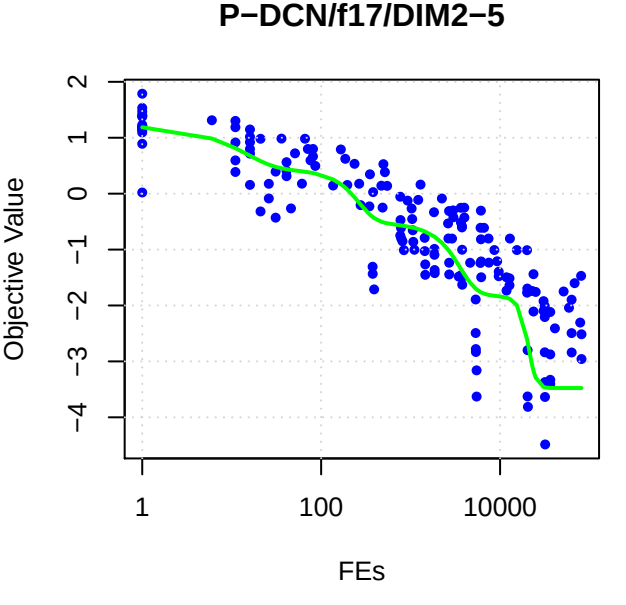

P−DCN/f17/DIM2−1
Objective Value
−4
−2
0
1
2
1
100
10000
FEs


P−DCN/f17/DIM2−10
Objective Value
−3
−2
−1
0
1
1
100
10000
FEs


P−DCN/f17/DIM2−2
Objective Value
FEs
2
1
0
−1
−2
−3
−4
1
100
10000


P−DCN/f17/DIM2−3
Objective Value
FEs
2
1
0
−1
−2
−3
1
100
10000


P−DCN/f17/DIM2−4
Objective Value
FEs
2
1
0
−1
−2
1
100
10000


P−DCN/f17/DIM2−5
Objective Value
FEs
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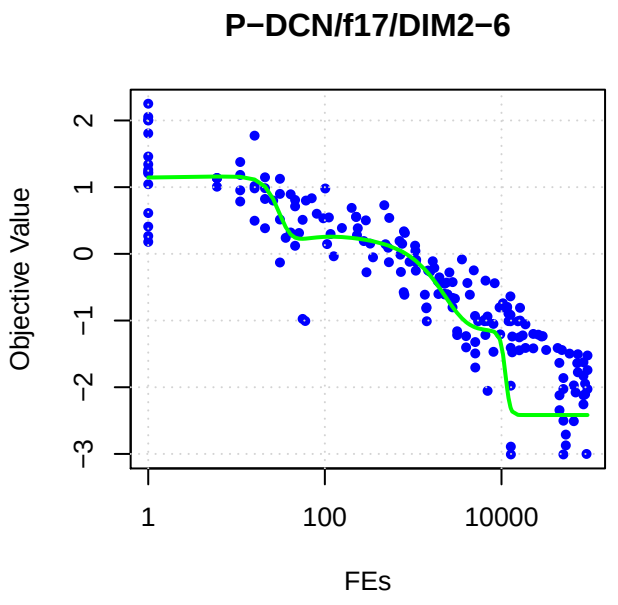
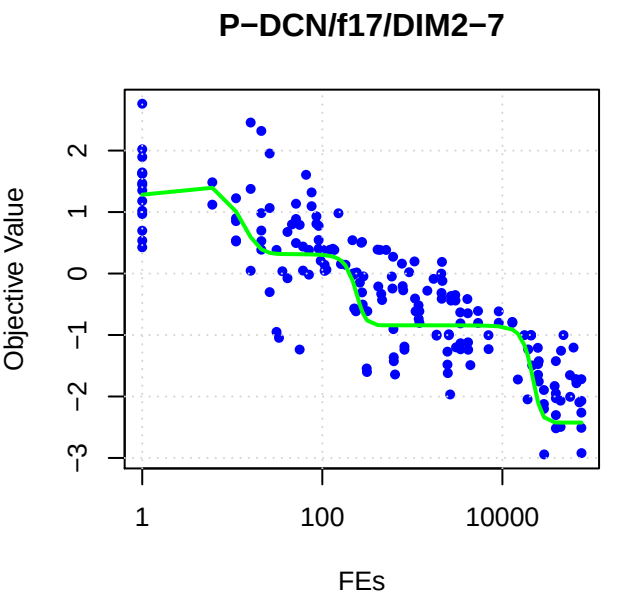
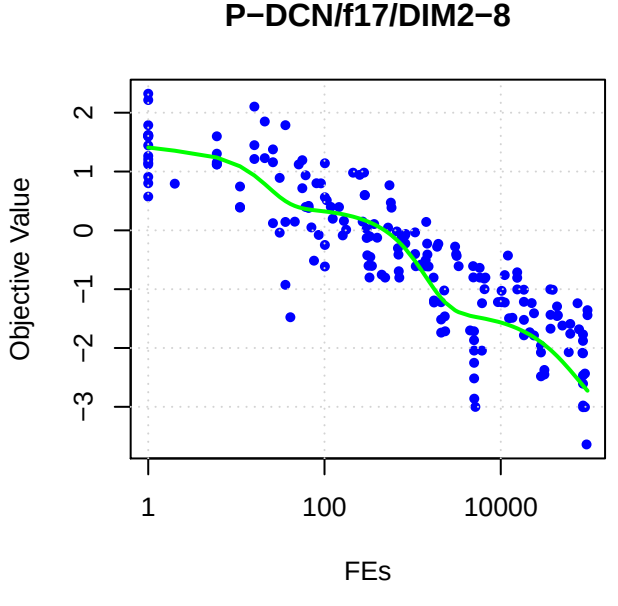
1
0
−1
−2
−3
−4
1
100
10000


P−DCN/f17/DIM2−6
Objective Value
FEs
1
100
10000
2
1
0
−1
−2
−3


P−DCN/f17/DIM2−7
Objective Value
FEs
1
100
10000
2
1
0
−1
−2
−3


P−DCN/f17/DIM2−8
Objective Value
FEs
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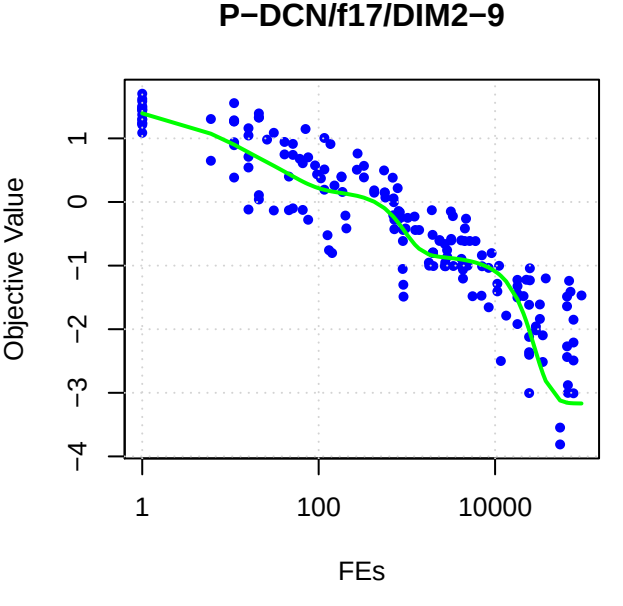
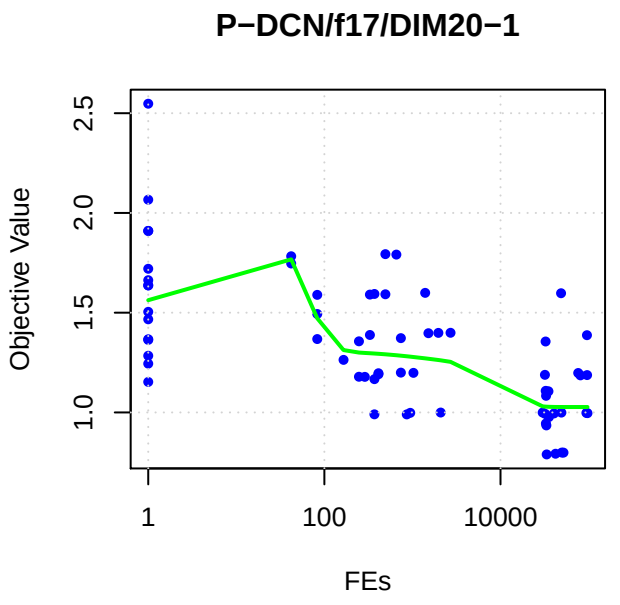
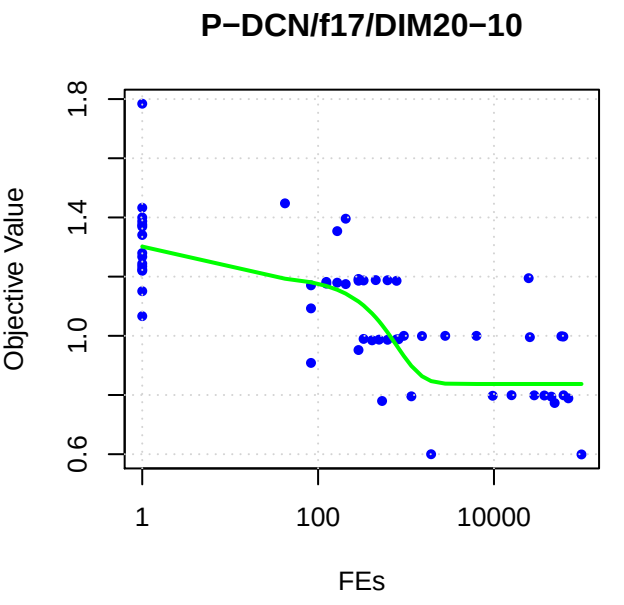
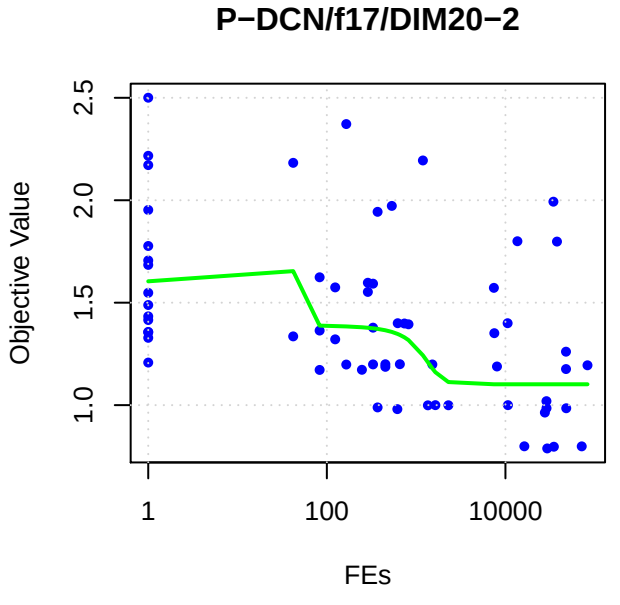
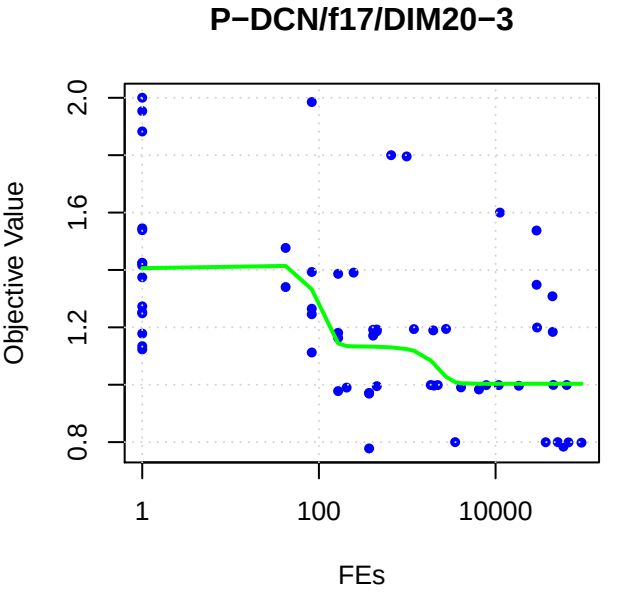
100
10000
2
1
0
−1
−2
−3

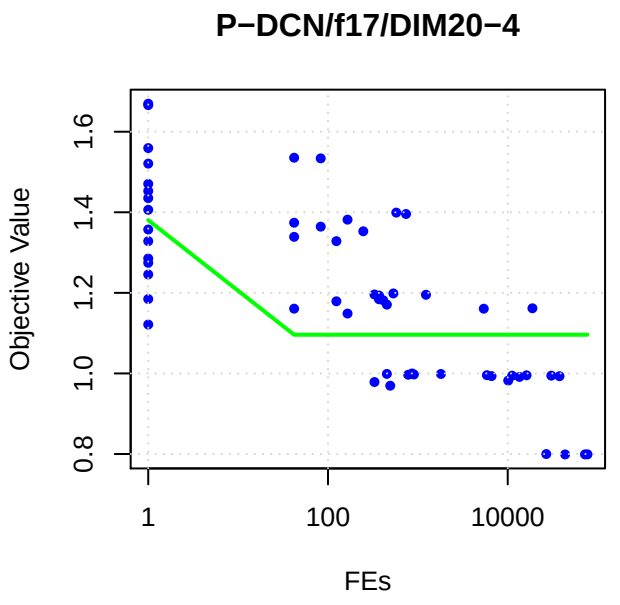

P−DCN/f17/DIM2−9
Objective Value
FEs
1
100
10000
1
0
−1
−2
−3
−4

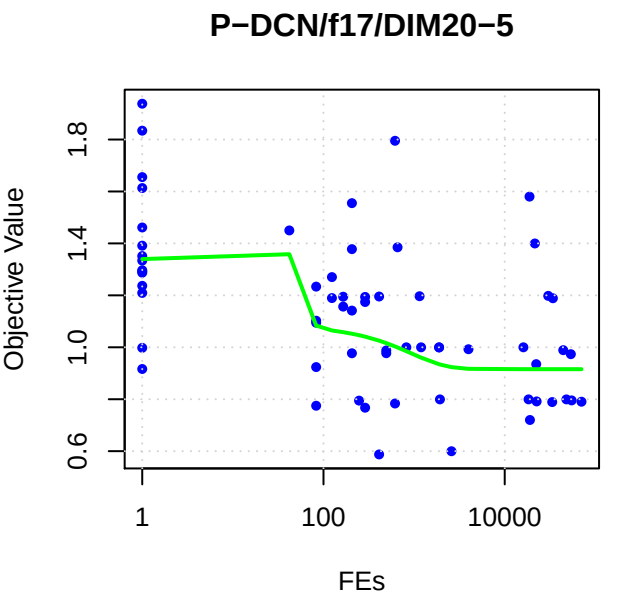

P−DCN/f17/DIM20−1
Objective Value
2.5
2.0
1.5
1.0
1
100
10000
FEs

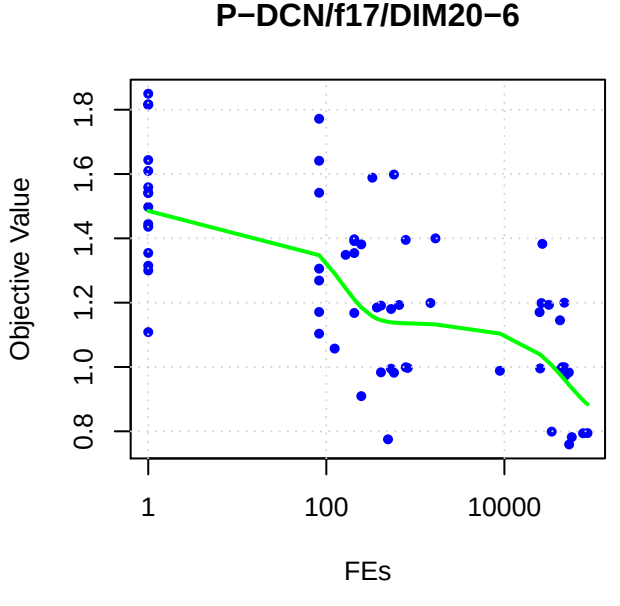

P−DCN/f17/DIM20−10
Objective Value
1.8
1.4
1.0
0.6
1
100
10000
FEs

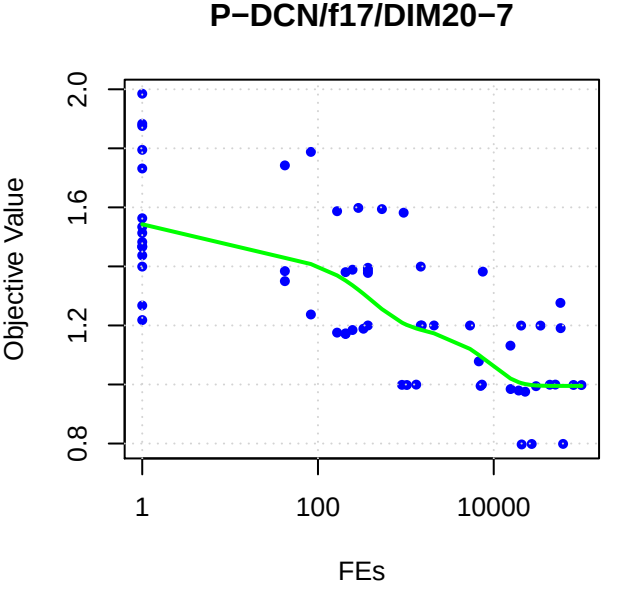

P−DCN/f17/DIM20−2
Objective Value
2.5
2.0
1.5
1.0
1
100
10000
FEs

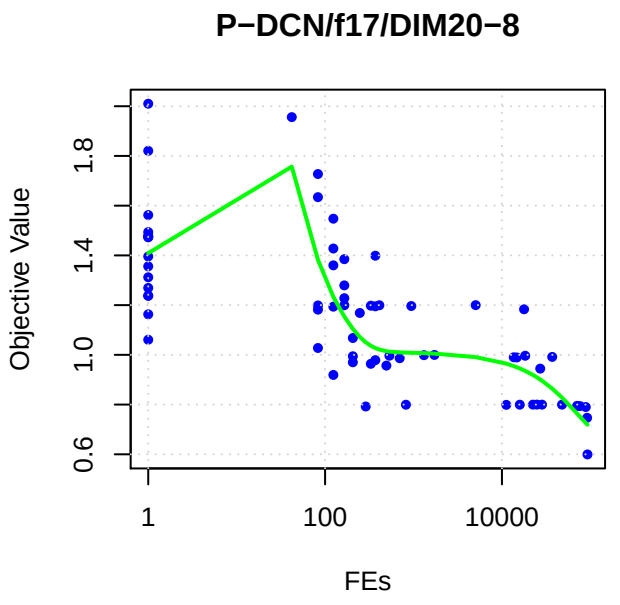

P−DCN/f17/DIM20−3
Objective Value
2.0
1.6
1.2
0.8
1
100
10000
FEs

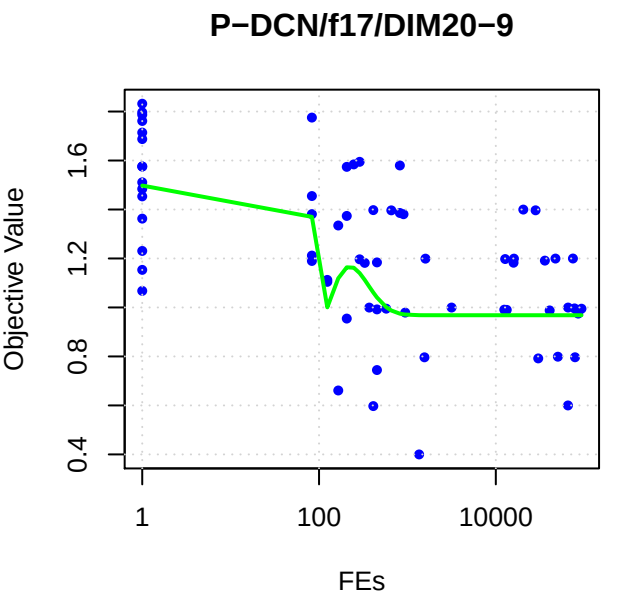

P−DCN/f17/DIM20−4
Objective Value
0.8
1.0
1.2
1.4
1.6
1
100
10000
FEs

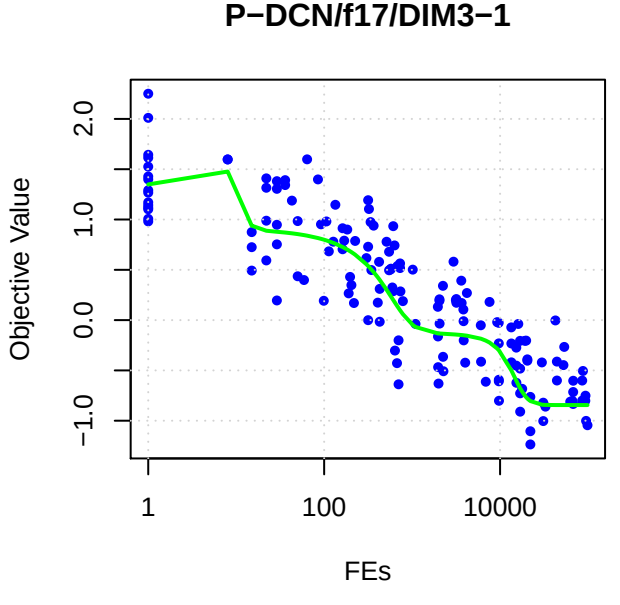

P−DCN/f17/DIM20−5
Objective Value
0.6
1.0
1.4
1.8
1
100
10000
FEs

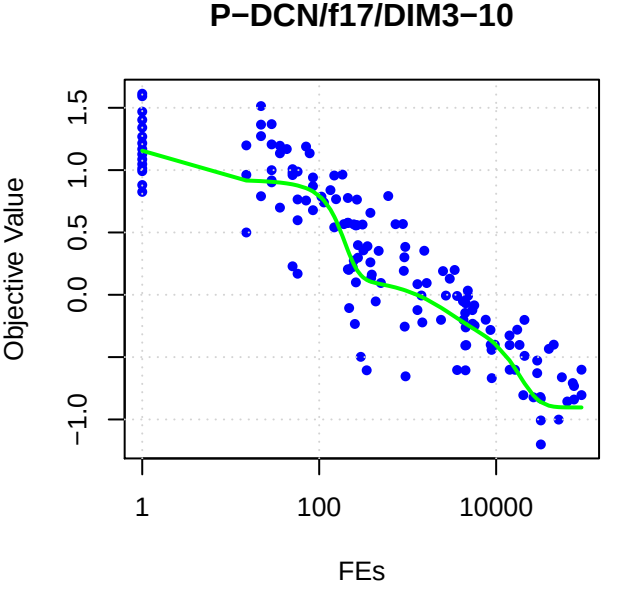

P−DCN/f17/DIM20−6
Objective Value
0.8
1.0
1.2
1.4
1.6
1.8
1
100
10000
FEs

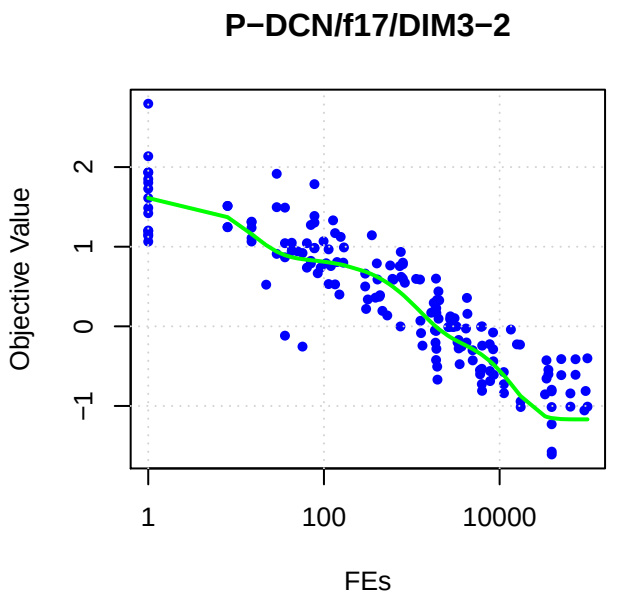

P−DCN/f17/DIM20−7
Objective Value
0.8
1.2
1.6
2.0
1
100
10000
FEs

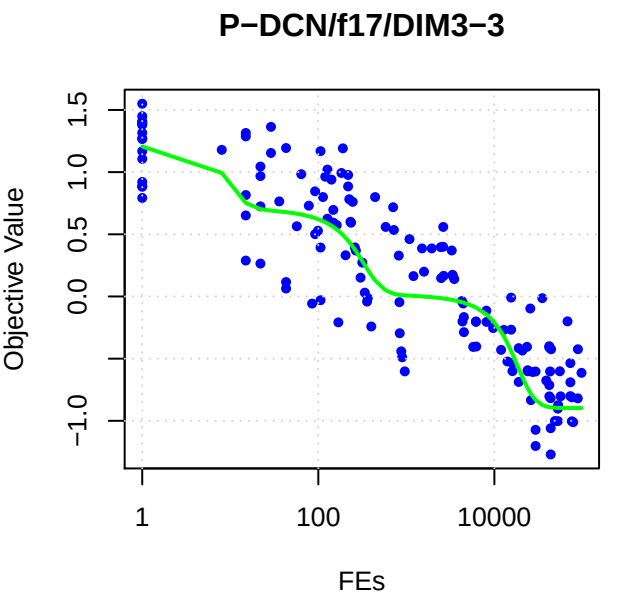

P−DCN/f17/DIM20−8
Objective Value
0.6
1.0
1.4
1.8
1
100
10000
FEs

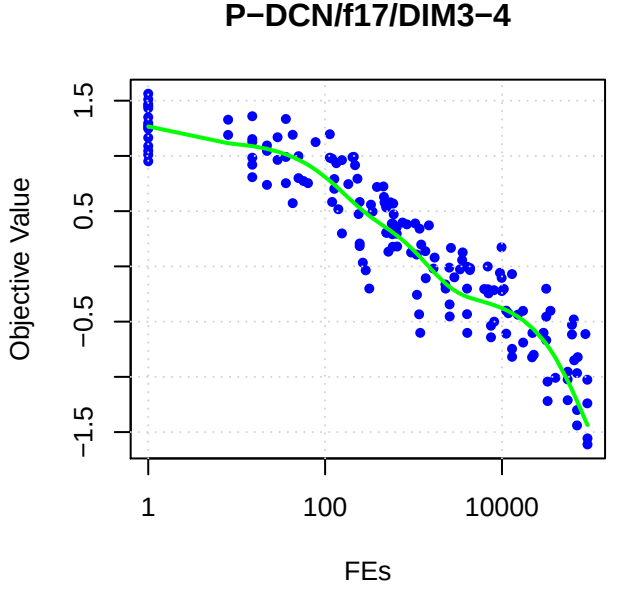

P−DCN/f17/DIM20−9
Objective Value
0.4
0.8
1.2
1.6
1
100
10000
FEs

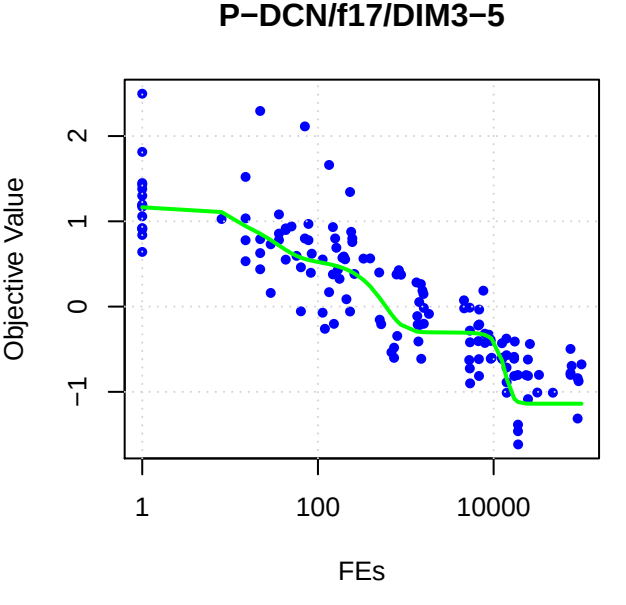

P−DCN/f17/DIM3−1
Objective Value
−1.0
0.0
1.0
2.0
1
100
10000
FEs

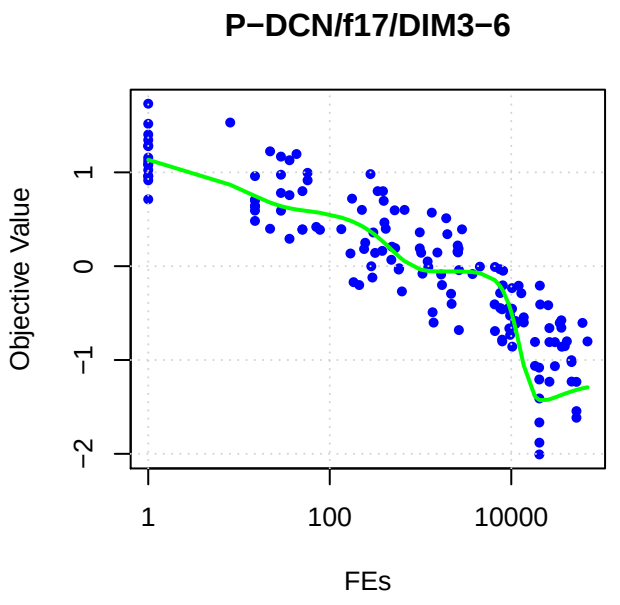

P−DCN/f17/DIM3−10
Objective Value
−1.0
0.0
0.5
1.0
1.5
1
100
10000
FEs

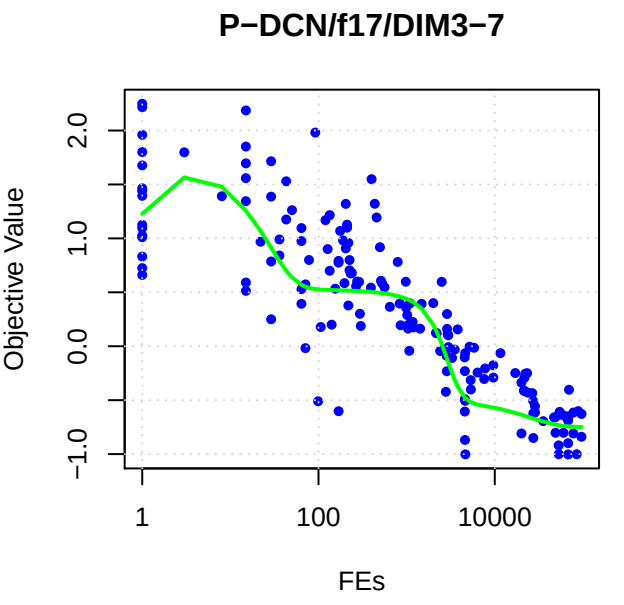

P−DCN/f17/DIM3−2
Objective Value
FEs
1
100
10000
−1
0
1
2

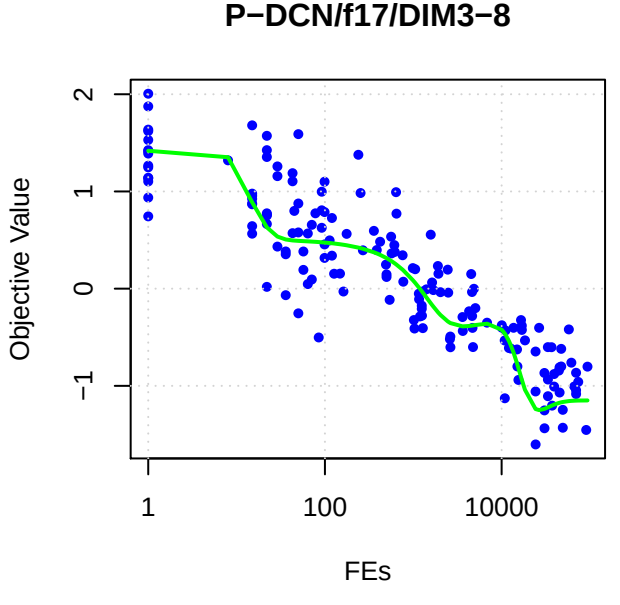

P−DCN/f17/DIM3−3
Objective Value
FEs
1
100
10000
−1.0
0.0
0.5
1.0
1.5

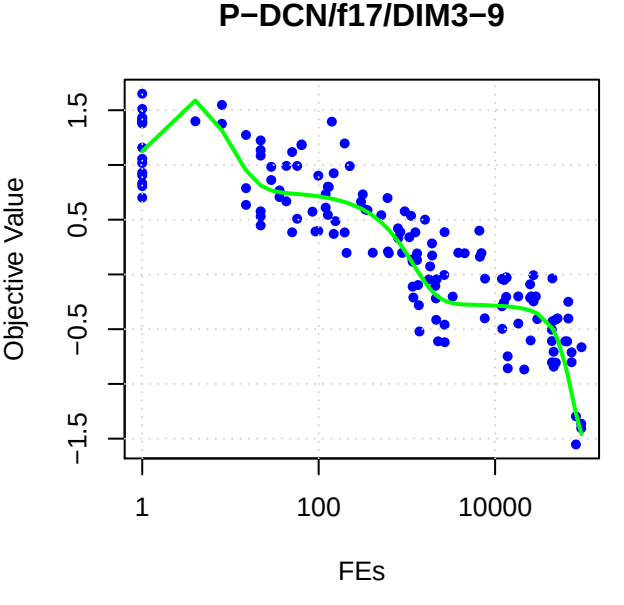

P−DCN/f17/DIM3−4
Objective Value
FEs
1
100
10000
−1.5
−0.5
0.5
1.5

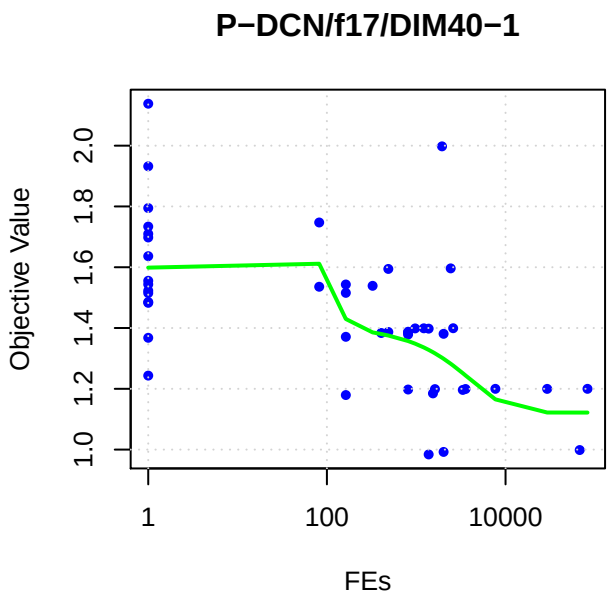

P−DCN/f17/DIM3−5
Objective Value
FEs
1
100
10000
−1
0
1
2

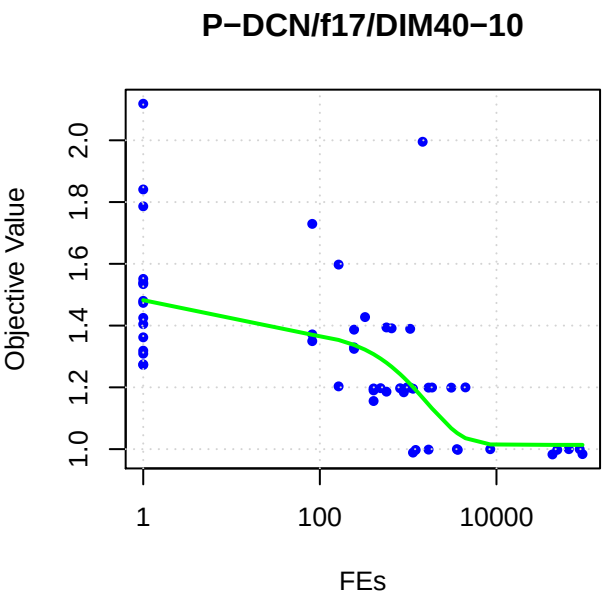

P−DCN/f17/DIM3−6
Objective Value
1
0
−1
−2
1
100
10000
FEs

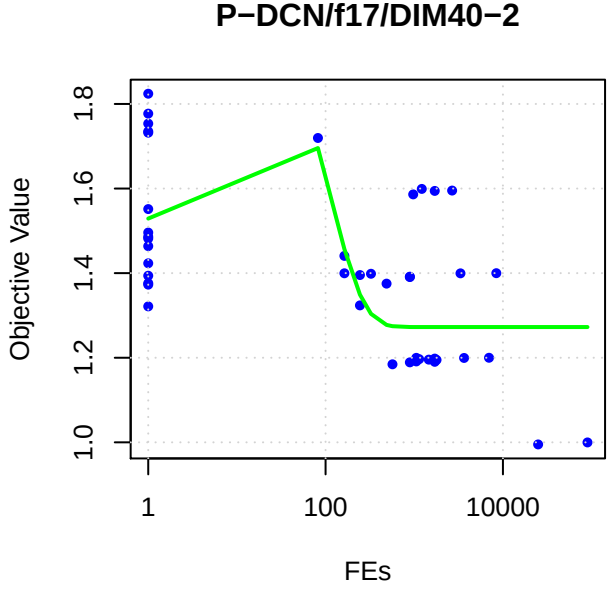

P−DCN/f17/DIM3−7
Objective Value
2.0
1.0
0.0
−1.0
1
100
10000
FEs

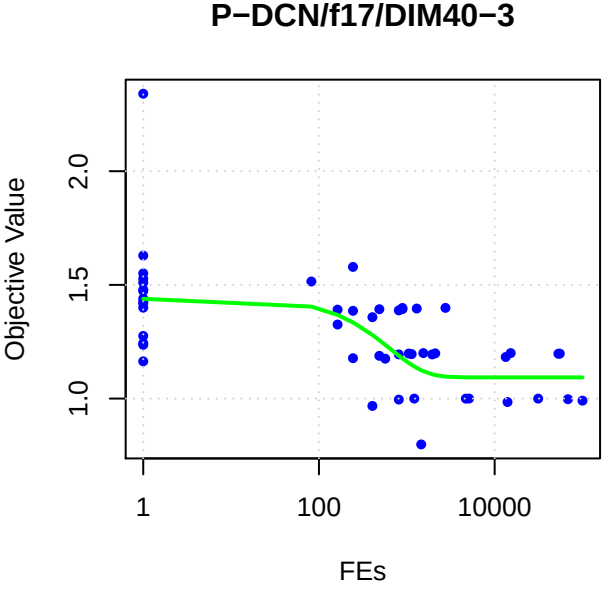

P−DCN/f17/DIM3−8
Objective Value
2
1
0
−1
1
100
10000
FEs

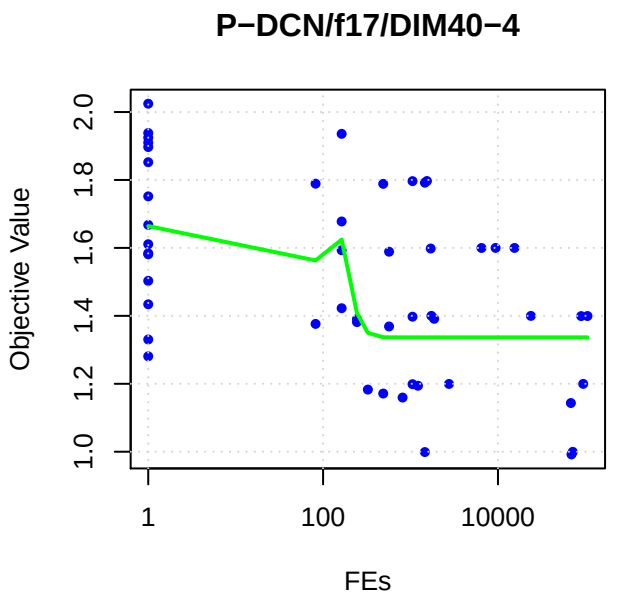

P−DCN/f17/DIM3−9
Objective Value
1.5
0.5
−0.5
−1.5
1
100
10000
FEs

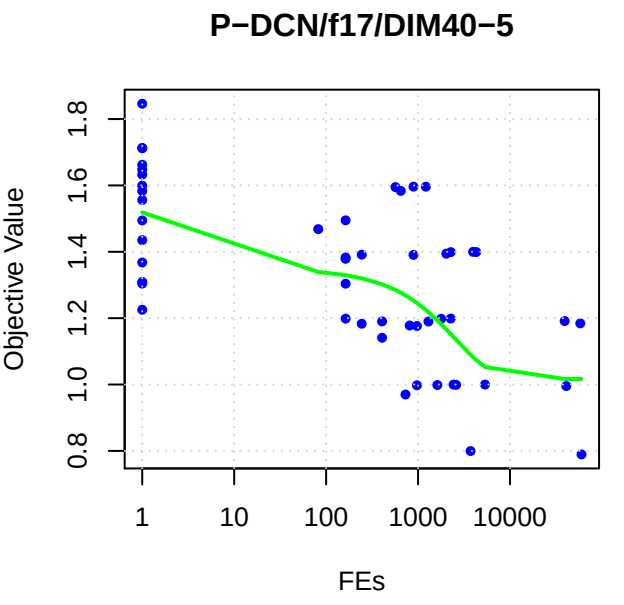

P−DCN/f17/DIM40−1
Objective Value
1.0
1.2
1.4
1.6
1.8
2.0
1
100
10000
FEs

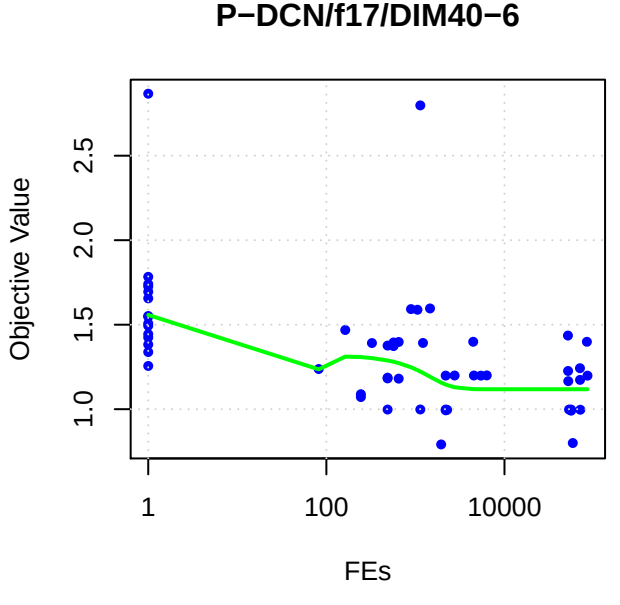

P−DCN/f17/DIM40−10
Objective Value
1.0
1.2
1.4
1.6
1.8
2.0
1
100
10000
FEs

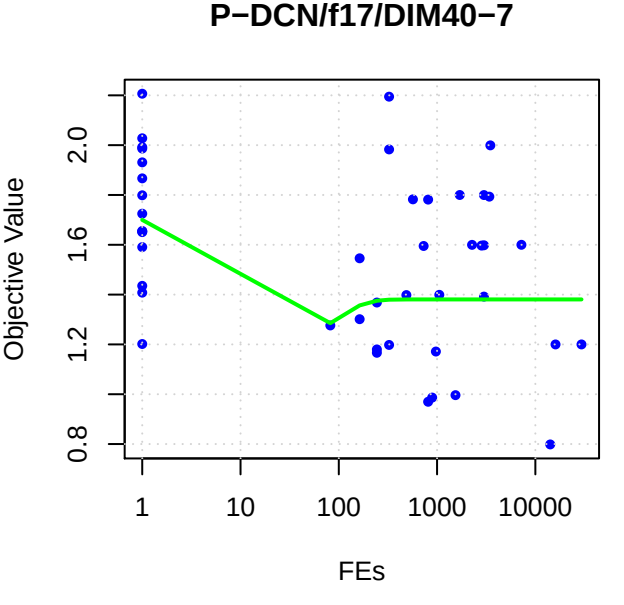

P−DCN/f17/DIM40−2
Objective Value
1.0
1.2
1.4
1.6
1.8
1
100
10000
FEs

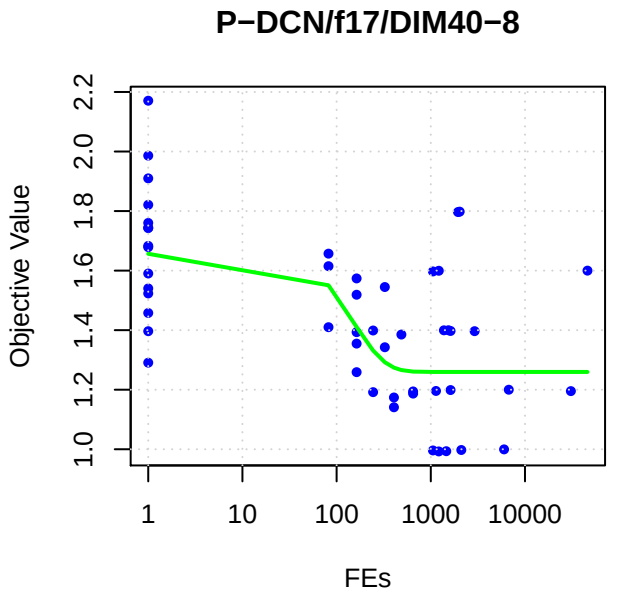

P−DCN/f17/DIM40−3
Objective Value
1.0
1.5
2.0
1
100
10000
FEs

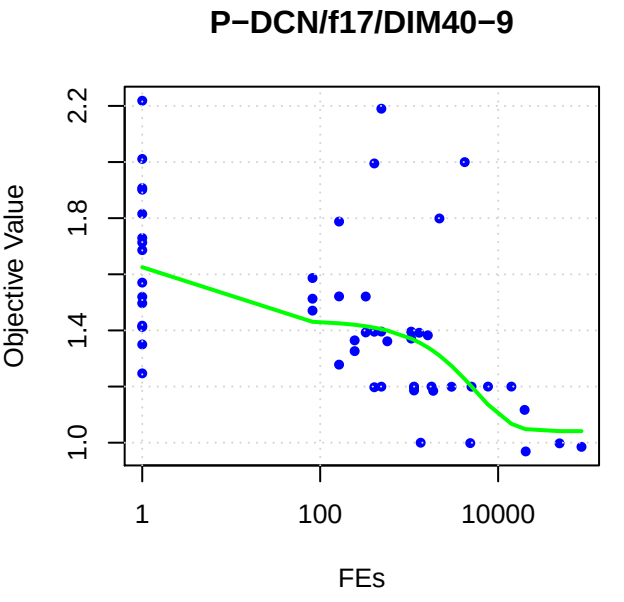

P−DCN/f17/DIM40−4
Objective Value
1.0
1.2
1.4
1.6
1.8
2.0
1
100
10000
FEs

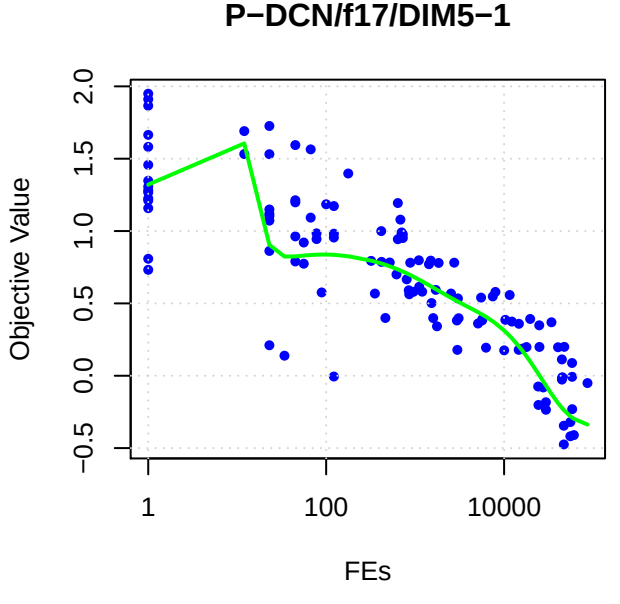

P−DCN/f17/DIM40−5
Objective Value
0.8
1.0
1.2
1.4
1.6
1.8
1
10
100
1000
10000
FEs


P−DCN/f17/DIM40−6
Objective Value
1.0
1.5
2.0
2.5
1
100
10000
FEs


P−DCN/f17/DIM40−7
Objective Value
0.8
1.2
1.6
2.0
1
10
100
1000
10000
FEs


P−DCN/f17/DIM40−8
Objective Value
FEs
1.0
1.2
1.4
1.6
1.8
2.0
2.2
1
10
100
1000
10000


P−DCN/f17/DIM40−9
Objective Value
FEs
1.0
1.4
1.8
2.2
1
100
10000


P−DCN/f17/DIM5−1
Objective Value
FEs
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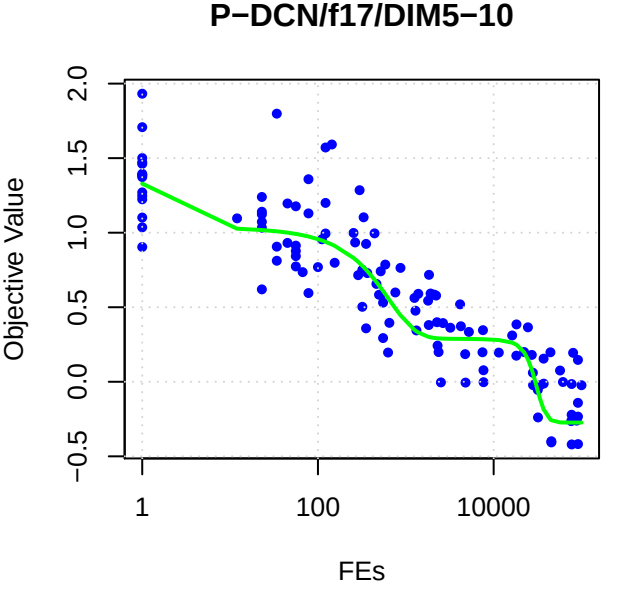
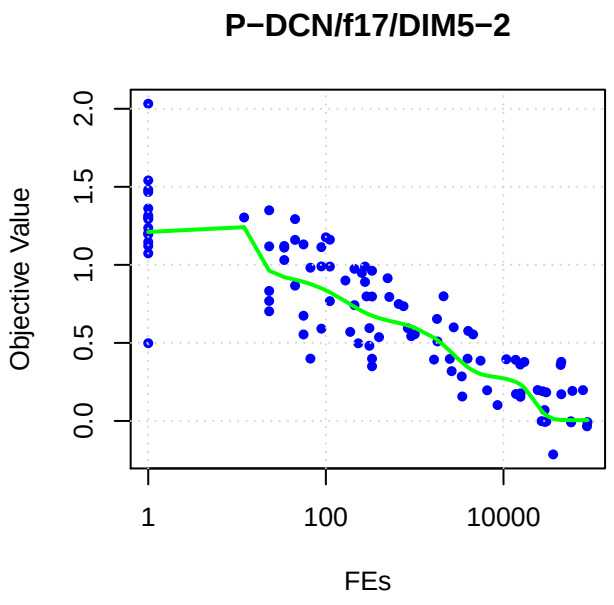
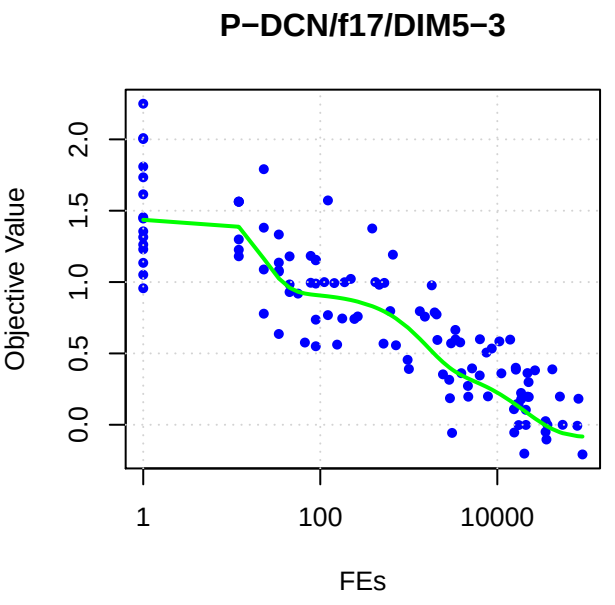
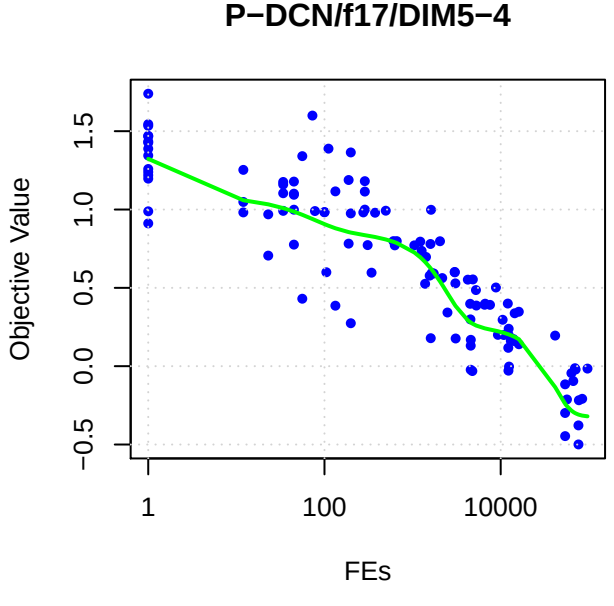
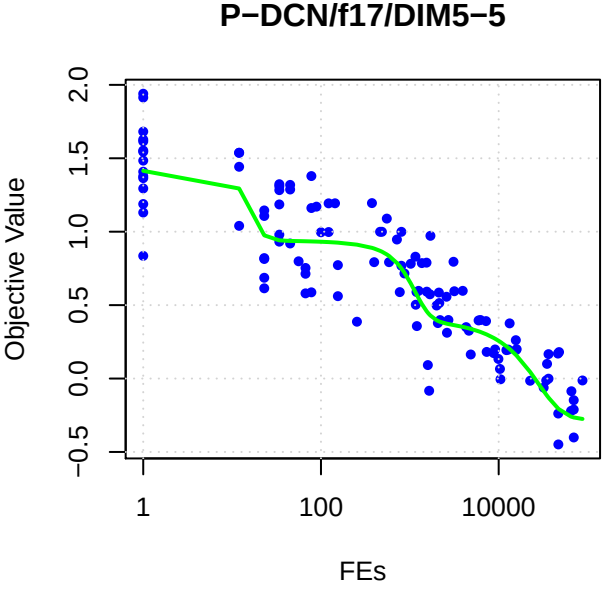
0.0
0.5
1.0
1.5
2.0
1
100
10000


P−DCN/f17/DIM5−10
Objective Value
FEs
−0.5
0.0
0.5
1.0
1.5
2.0
1
100
10000


P−DCN/f17/DIM5−2
Objective Value
0.0
0.5
1.0
1.5
2.0
1
100
10000
FEs


P−DCN/f17/DIM5−3
Objective Value
0.0
0.5
1.0
1.5
2.0
1
100
10000
FEs


P−DCN/f17/DIM5−4
Objective Value
−0.5
0.0
0.5
1.0
1.5
1
100
10000
FEs


P−DCN/f17/DIM5−5
Objective Value
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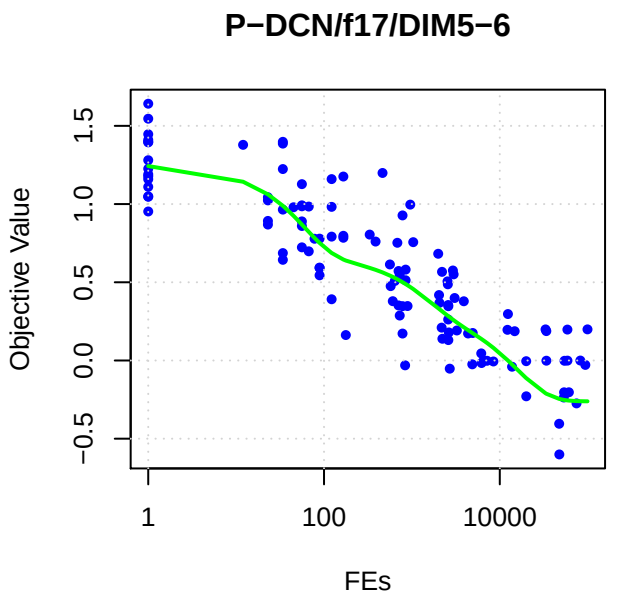
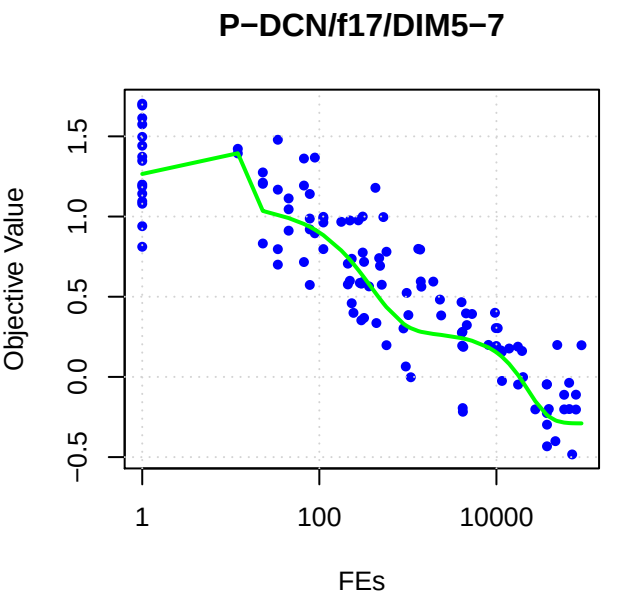
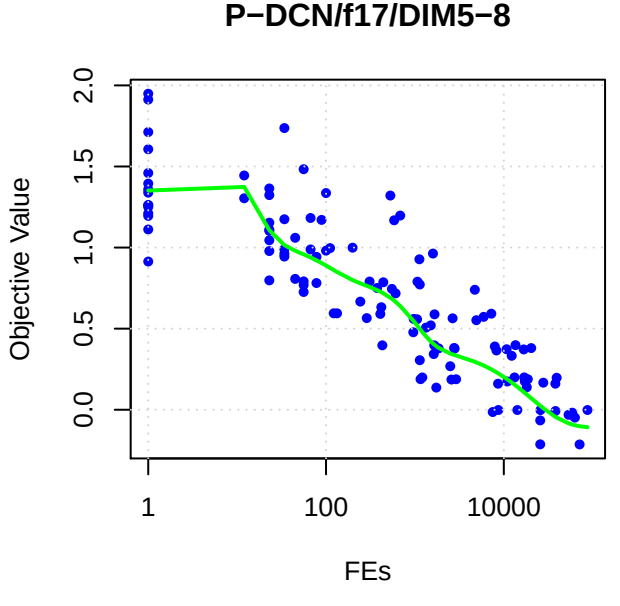
0.0
0.5
1.0
1.5
2.0
1
100
10000
FEs


P−DCN/f17/DIM5−6
Objective Value
FEs
1
100
10000
−0.5
0.0
0.5
1.0
1.5


P−DCN/f17/DIM5−7
Objective Value
FEs
1
100
10000
−0.5
0.0
0.5
1.0
1.5


P−DCN/f17/DIM5−8
Objective Value
FEs
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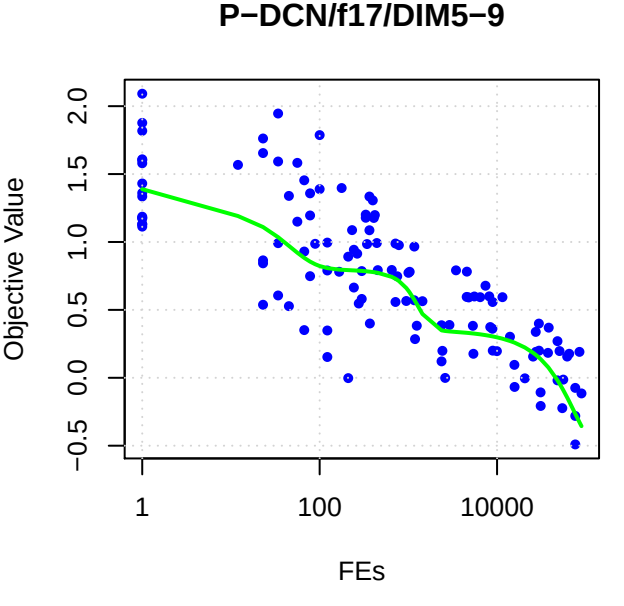
100
10000
0.0
0.5
1.0
1.5
2.0


P−DCN/f17/DIM5−9
Objective Value
FEs
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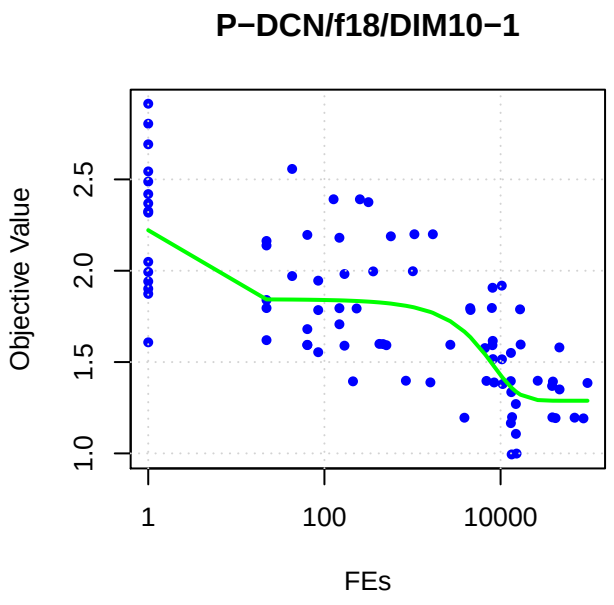
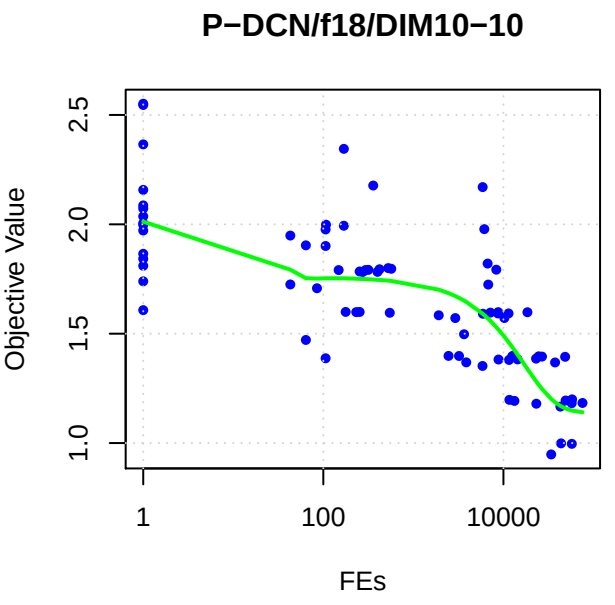
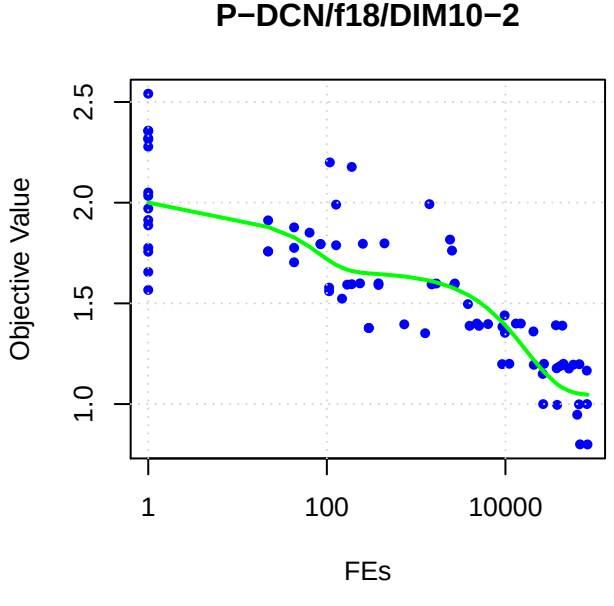
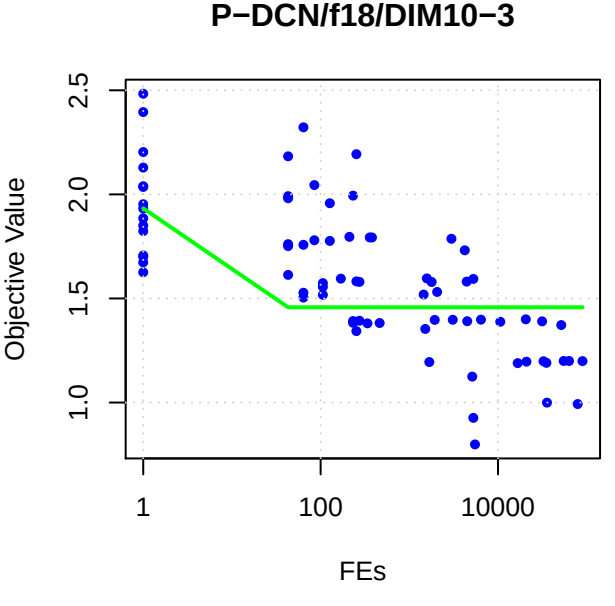
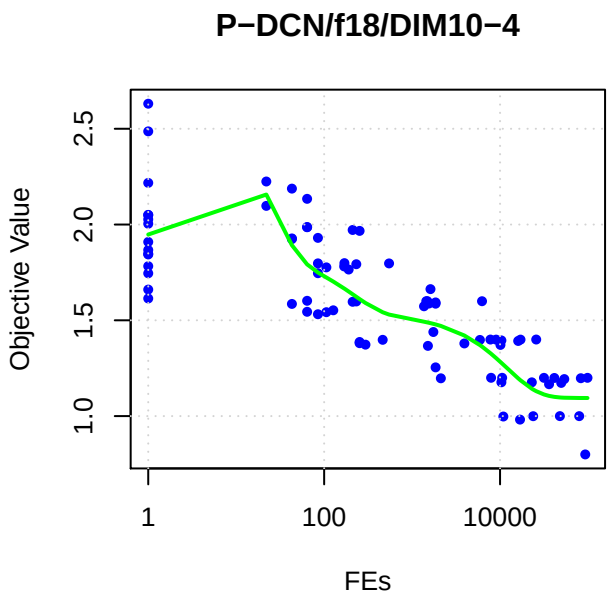
100
10000
−0.5
0.0
0.5
1.0
1.5
2.0

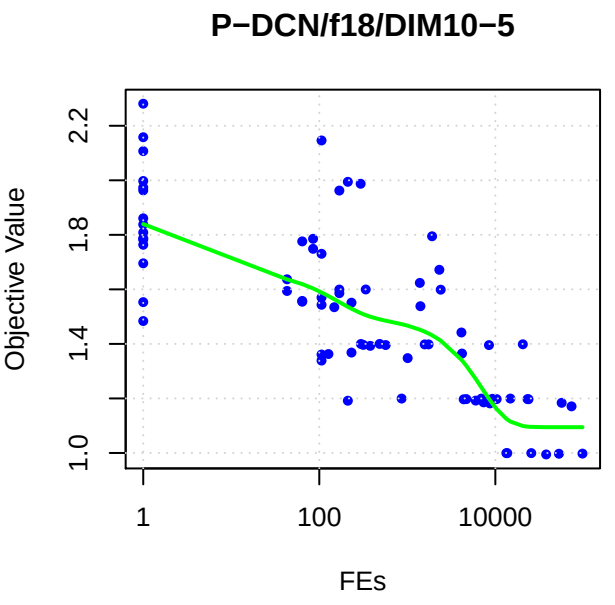

P−DCN/f18/DIM10−1
Objective Value
1.0
1.5
2.0
2.5
1
100
10000
FEs

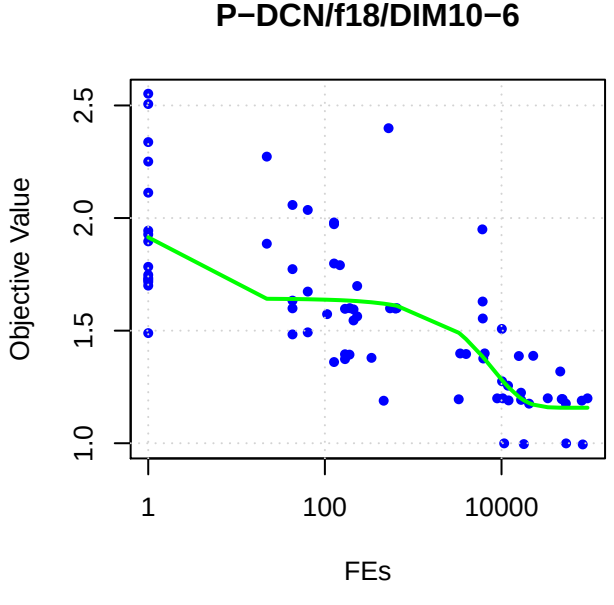

P−DCN/f18/DIM10−10
Objective Value
1.0
1.5
2.0
2.5
1
100
10000
FEs

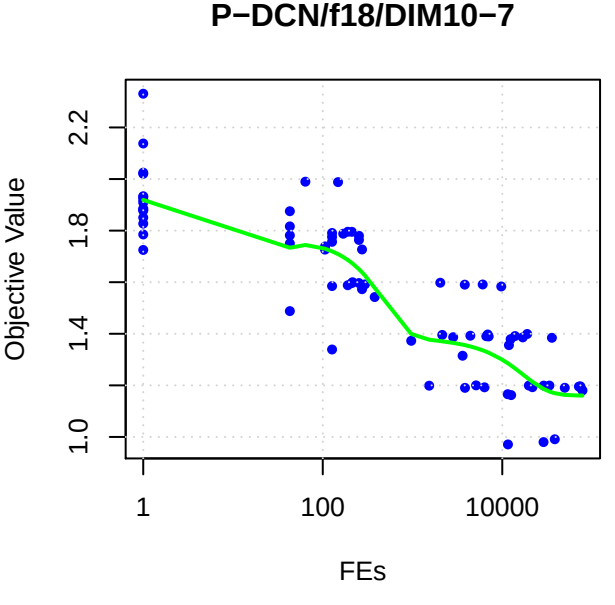

P−DCN/f18/DIM10−2
Objective Value
1.0
1.5
2.0
2.5
1
100
10000
FEs

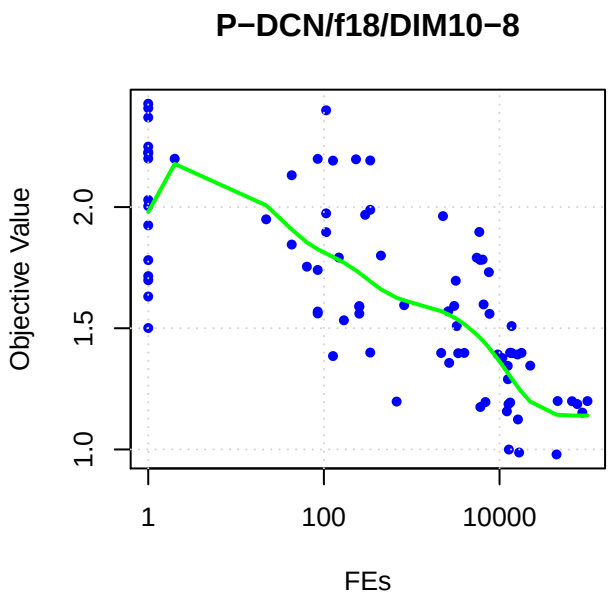

P−DCN/f18/DIM10−3
Objective Value
1.0
1.5
2.0
2.5
1
100
10000
FEs

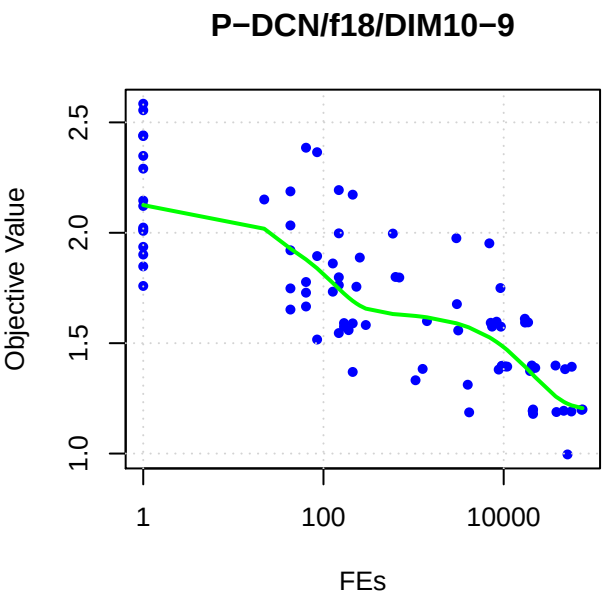

P−DCN/f18/DIM10−4
Objective Value
2.5
2.0
1.5
1.0
1
100
10000
FEs

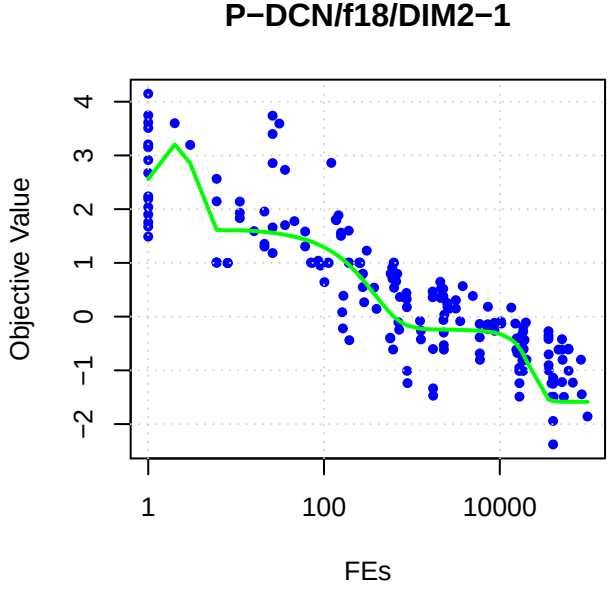

P−DCN/f18/DIM10−5
Objective Value
2.2
1.8
1.4
1.0
1
100
10000
FEs

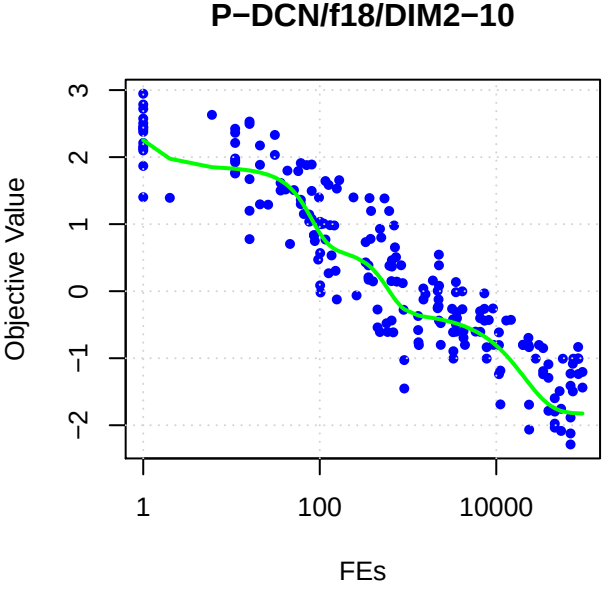

P−DCN/f18/DIM10−6
Objective Value
2.5
2.0
1.5
1.0
1
100
10000
FEs

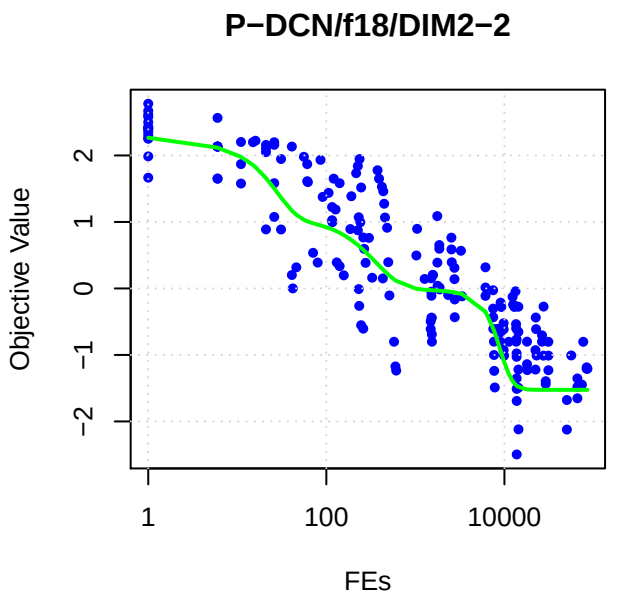

P−DCN/f18/DIM10−7
Objective Value
2.2
1.8
1.4
1.0
1
100
10000
FEs


P−DCN/f18/DIM10−8
Objective Value
1.0
1.5
2.0
1
100
10000
FEs


P−DCN/f18/DIM10−9
Objective Value
1.0
1.5
2.0
2.5
1
100
10000
FEs


P−DCN/f18/DIM2−1
Objective Value
−2
−1
0
1
2
3
4
1
100
10000
FEs


P−DCN/f18/DIM2−10
Objective Value
−2
−1
0
1
2
3
1
100
10000
FEs


P−DCN/f18/DIM2−2
Objective Value
FEs
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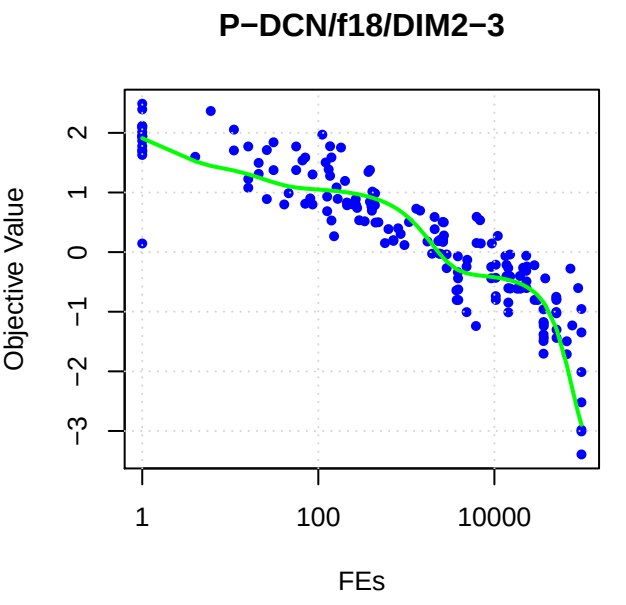
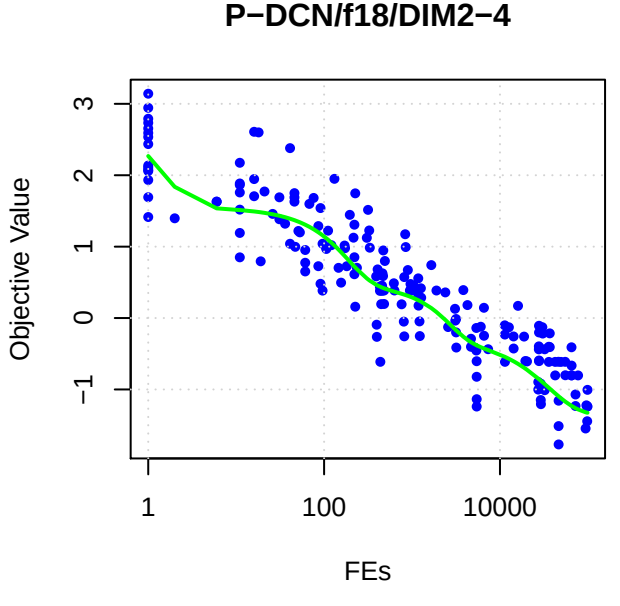
100
10000
−2
−1
0
1
2


P−DCN/f18/DIM2−3
Objective Value
FEs
1
100
10000
−3
−2
−1
0
1
2


P−DCN/f18/DIM2−4
Objective Value
FEs
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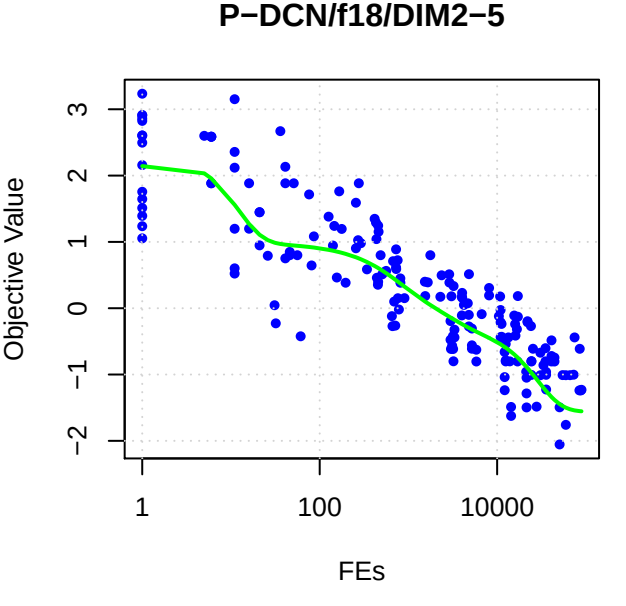
100
10000
−1
0
1
2
3


P−DCN/f18/DIM2−5
Objective Value
FEs
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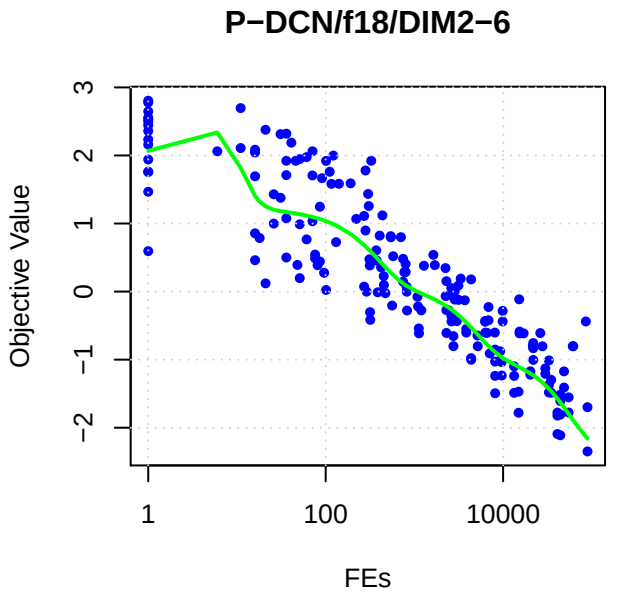
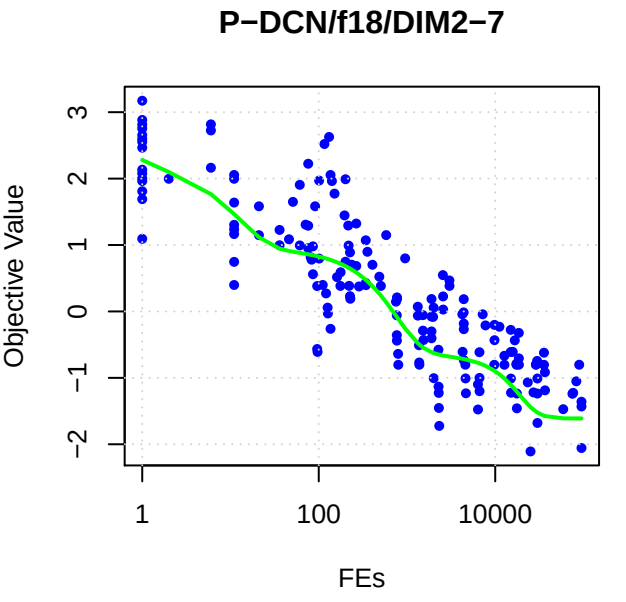
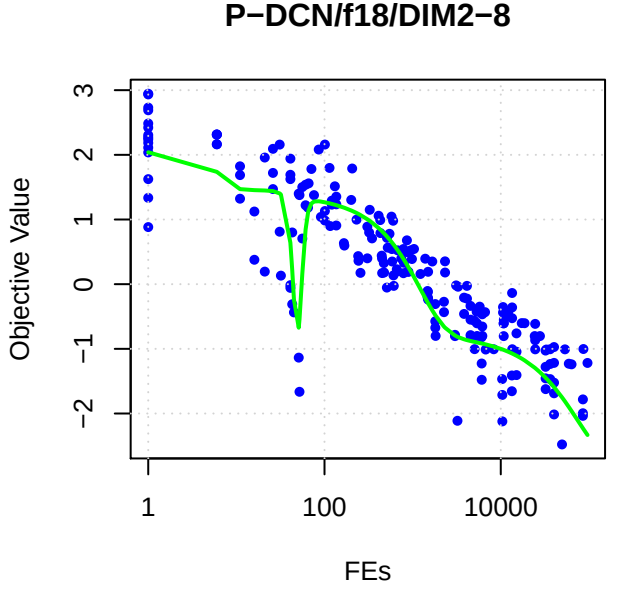
100
10000
−2
−1
0
1
2
3


P−DCN/f18/DIM2−6
Objective Value
FEs
1
100
10000
3
2
1
0
−1
−2


P−DCN/f18/DIM2−7
Objective Value
FEs
1
100
10000
3
2
1
0
−1
−2


P−DCN/f18/DIM2−8
Objective Value
FEs
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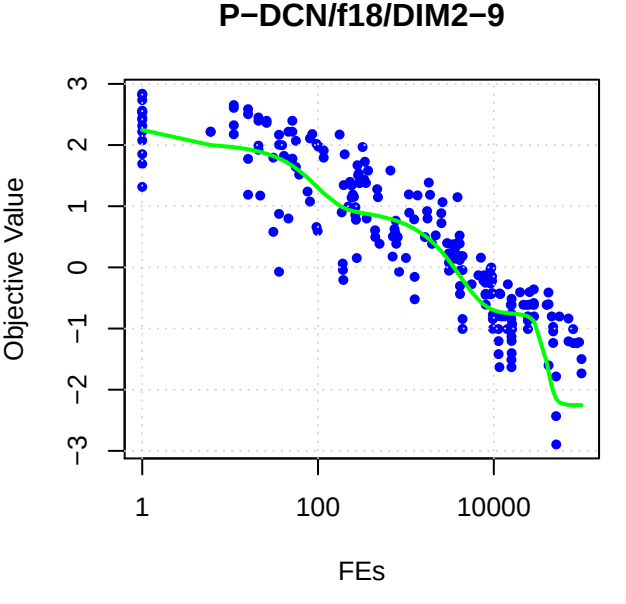
100
10000
3
2
1
0
−1
−2


P−DCN/f18/DIM2−9
Objective Value
FEs
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100
10000
3
2
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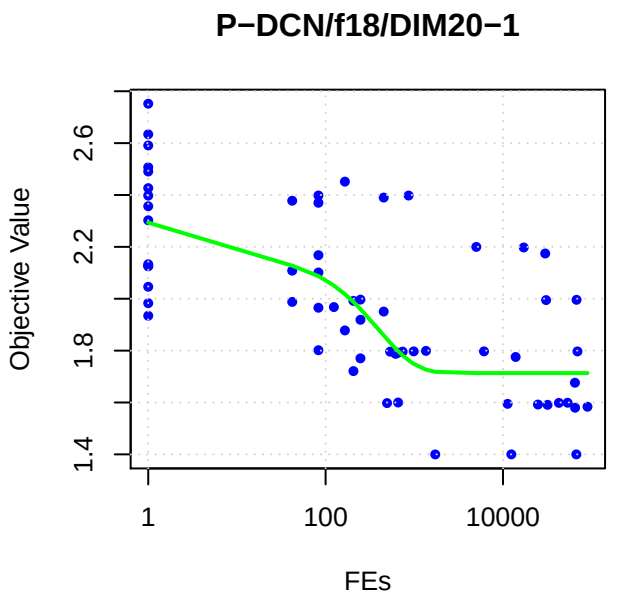
−1
−2
−3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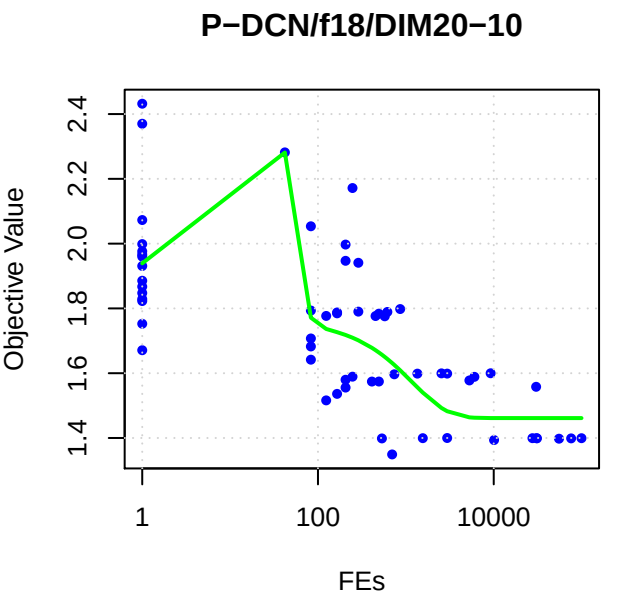
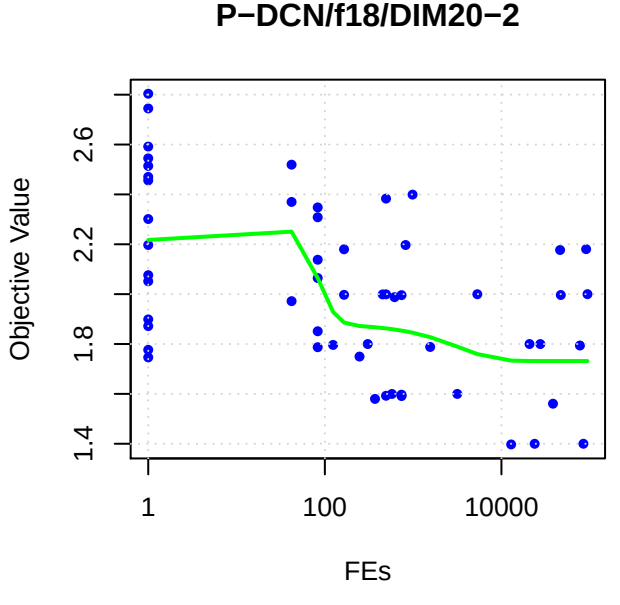
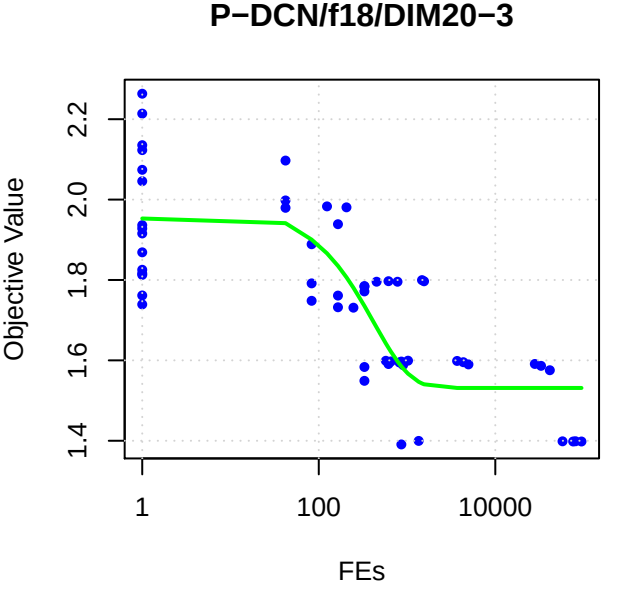
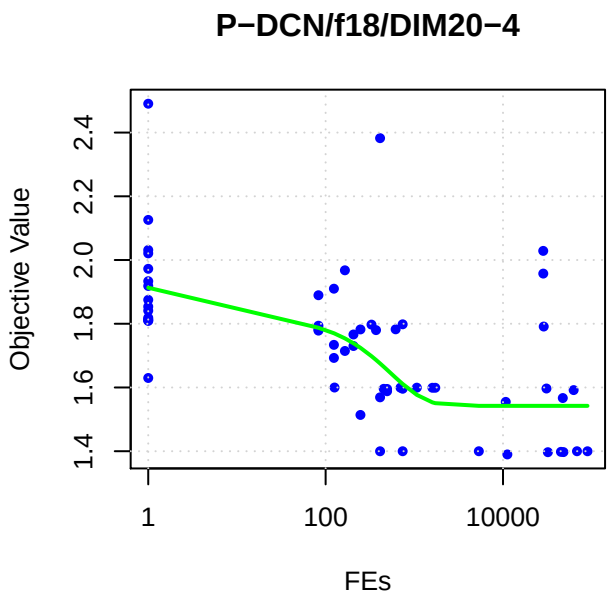
Objective Value
1.4
1.8
2.2
2.6
1
100
10000
FEs


P−DCN/f18/DIM20−10
Objective Value
1.4
1.6
1.8
2.0
2.2
2.4
1
100
10000
FEs


P−DCN/f18/DIM20−2
Objective Value
1.4
1.8
2.2
2.6
1
100
10000
FEs


P−DCN/f18/DIM20−3
Objective Value
1.4
1.6
1.8
2.0
2.2
1
100
10000
FEs


P−DCN/f18/DIM20−4
Objective Value
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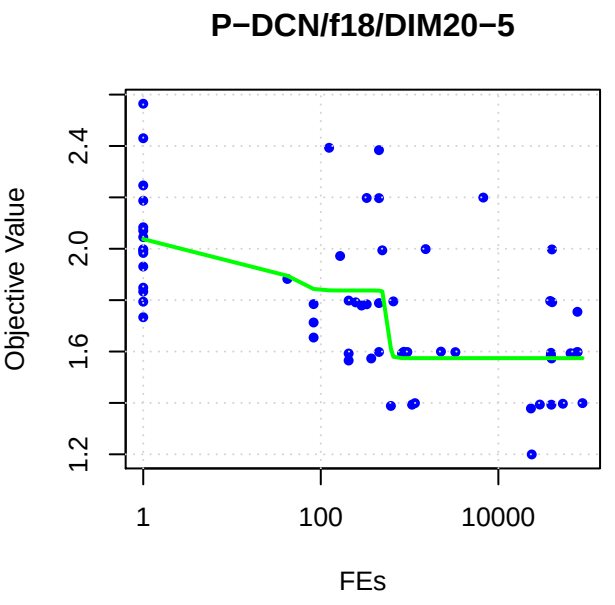
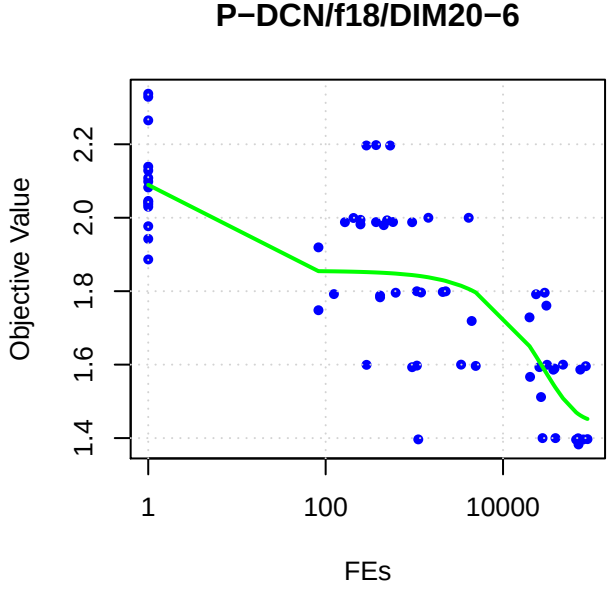
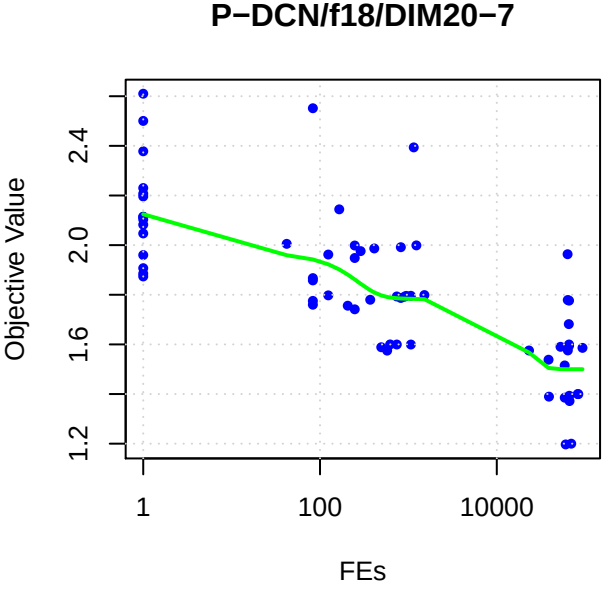
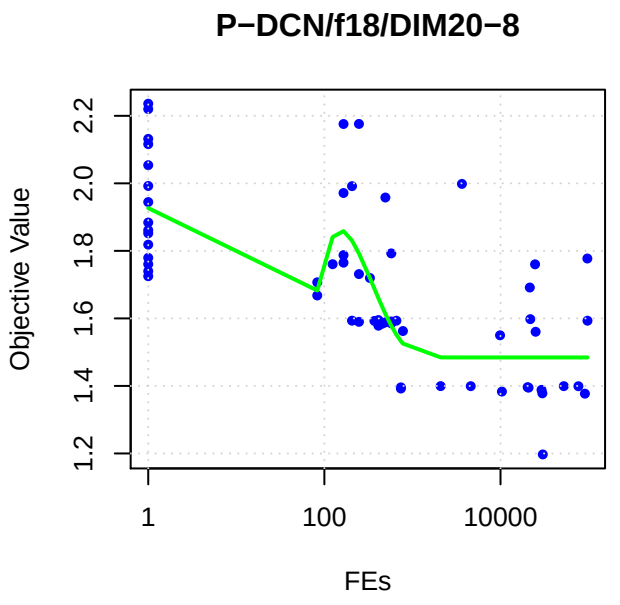
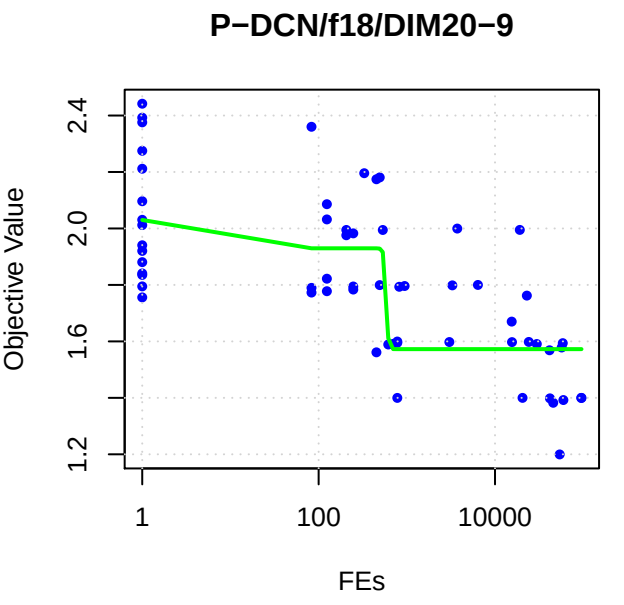
1.6
1.8
2.0
2.2
2.4
1
100
10000
FEs

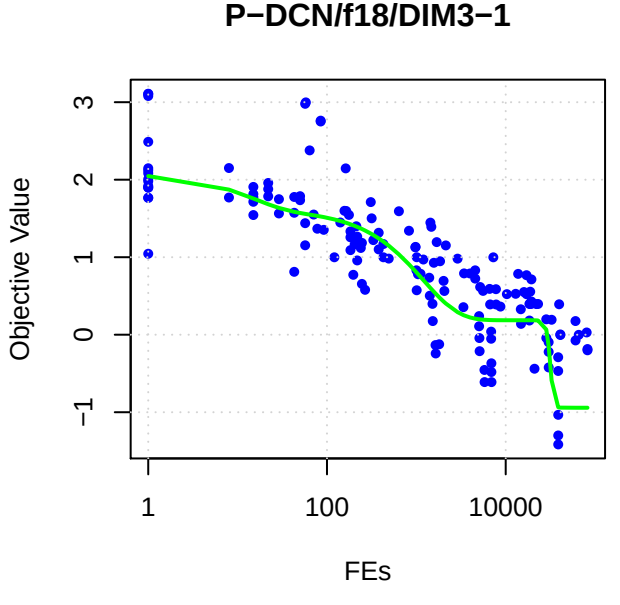

P−DCN/f18/DIM20−5
Objective Value
1.2
1.6
2.0
2.4
1
100
10000
FEs

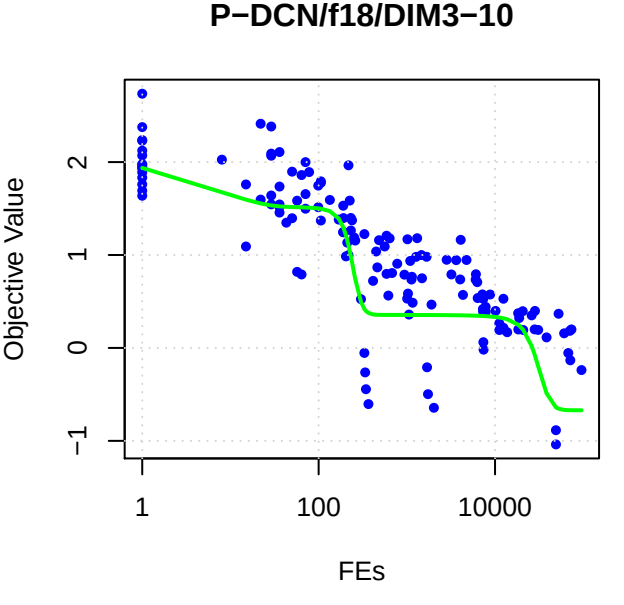

P−DCN/f18/DIM20−6
Objective Value
1.4
1.6
1.8
2.0
2.2
1
100
10000
FEs

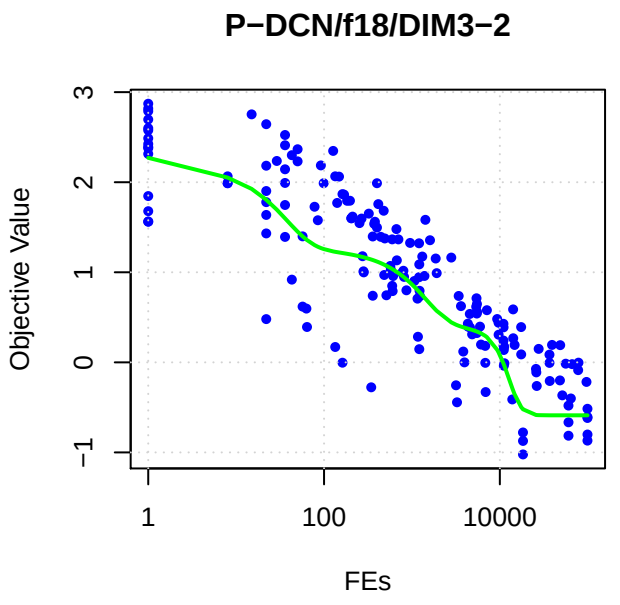

P−DCN/f18/DIM20−7
Objective Value
1.2
1.6
2.0
2.4
1
100
10000
FEs

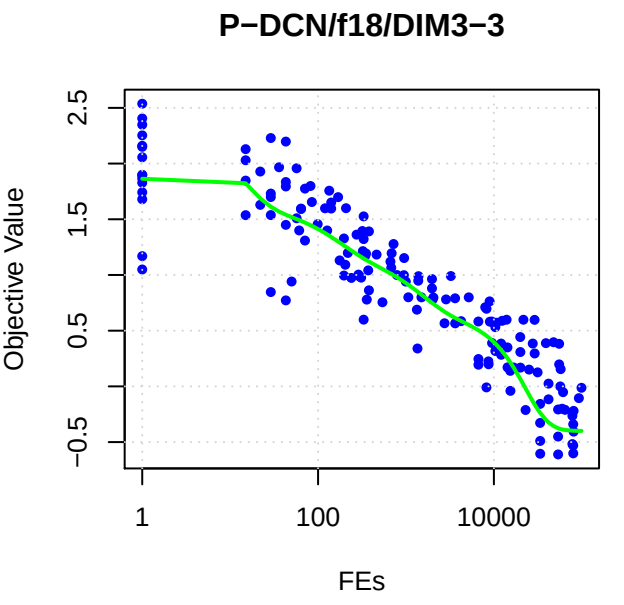

P−DCN/f18/DIM20−8
Objective Value
2.2
2.0
1.8
1.6
1.4
1.2
1
100
10000
FEs

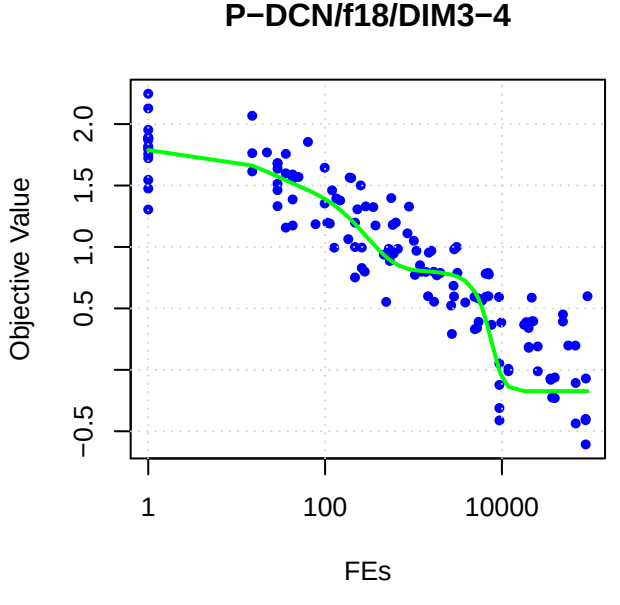

P−DCN/f18/DIM20−9
Objective Value
2.4
2.0
1.6
1.2
1
100
10000
FEs


P−DCN/f18/DIM3−1
Objective Value
3
2
1
0
−1
1
100
10000
FEs


P−DCN/f18/DIM3−10
Objective Value
2
1
0
−1
1
100
10000
FEs


P−DCN/f18/DIM3−2
Objective Value
FEs
3
2
1
0
−1
1
100
10000


P−DCN/f18/DIM3−3
Objective Value
FEs
2.5
1.5
0.5
−0.5
1
100
10000


P−DCN/f18/DIM3−4
Objective Value
FEs
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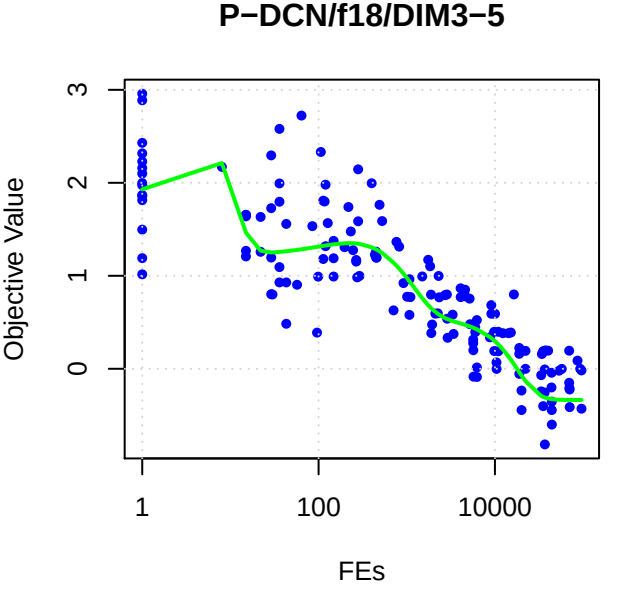
1.5
1.0
0.5
−0.5
1
100
10000


P−DCN/f18/DIM3−5
Objective Value
FEs
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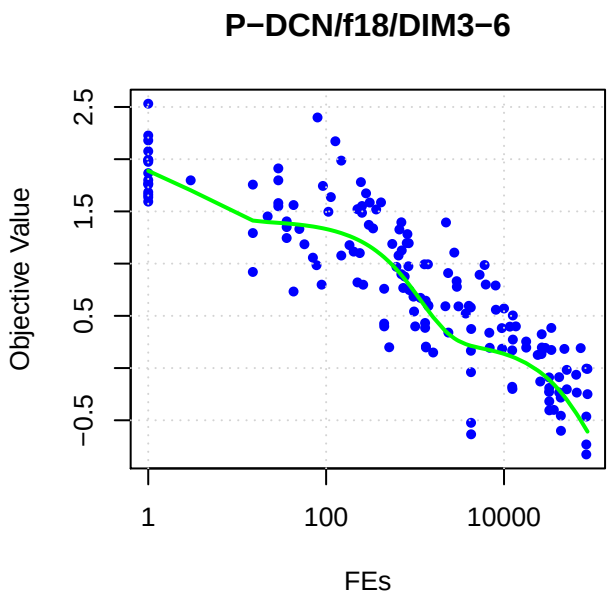
2
1
0
1
100
10000


P−DCN/f18/DIM3−6
Objective Value
FEs
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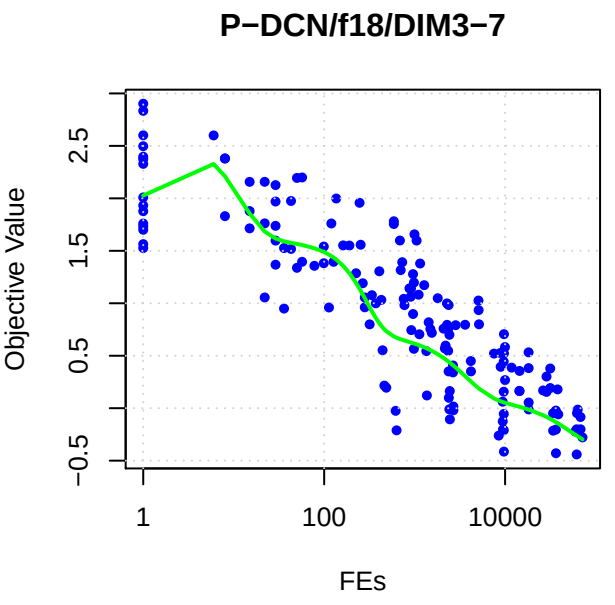
1.5
0.5
−0.5
1
100
10000


P−DCN/f18/DIM3−7
Objective Value
FEs
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1.5
0.5
−0.5
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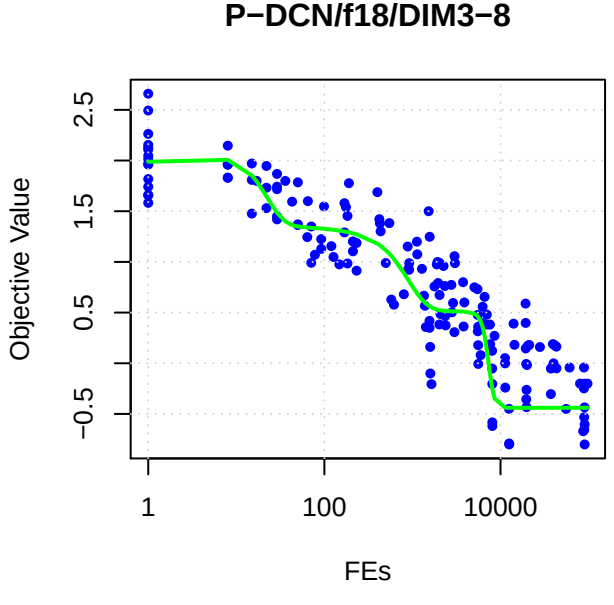
100
10000


P−DCN/f18/DIM3−8
Objective Value
FEs
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−0.5
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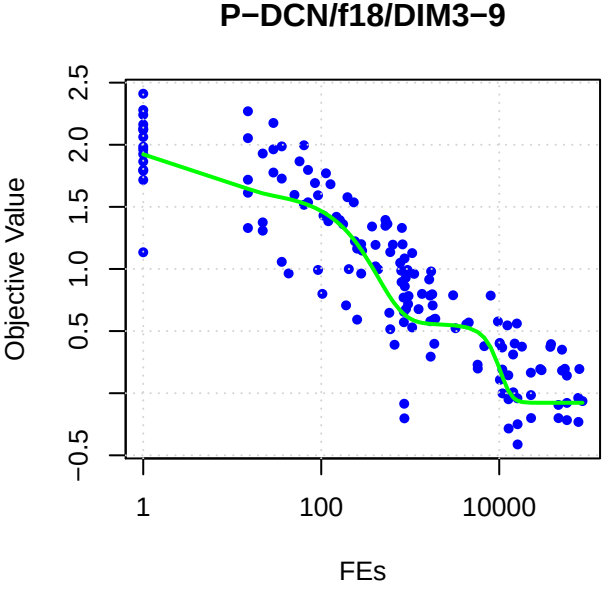
100
10000


P−DCN/f18/DIM3−9
Objective Value
FEs
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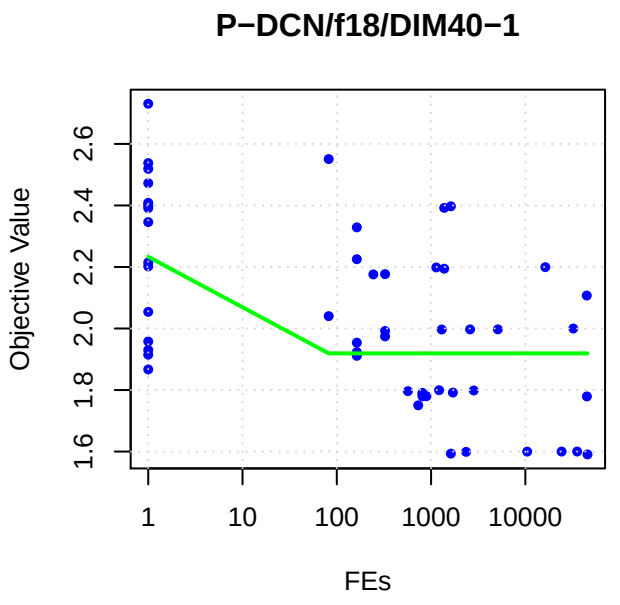
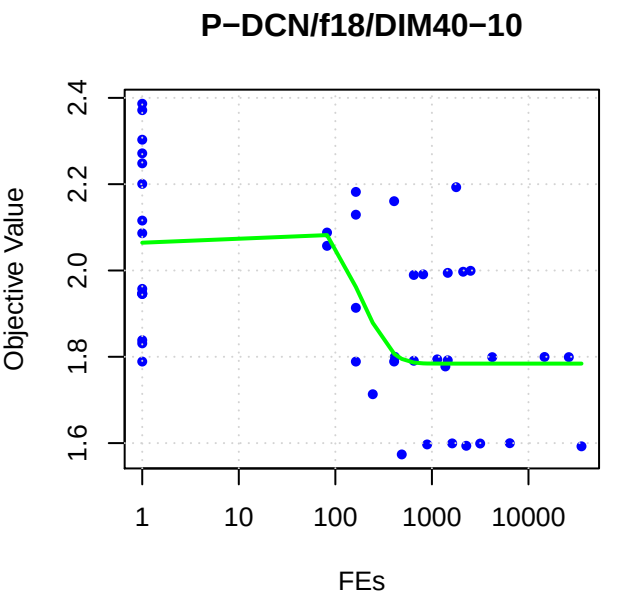
2.0
1.5
1.0
0.5
−0.5
1
100
10000


P−DCN/f18/DIM40−1
Objective Value
1.6
1.8
2.0
2.2
2.4
2.6
1
10
100
1000
10000
FEs


P−DCN/f18/DIM40−10
Objective Value
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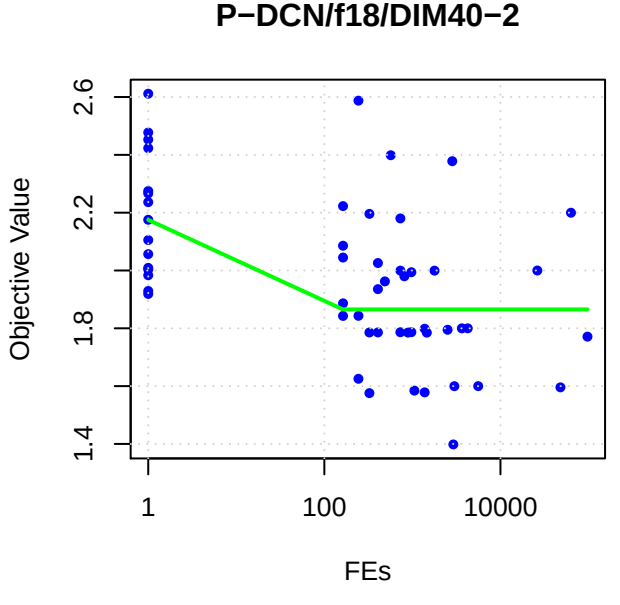
1.8
2.0
2.2
2.4
1
10
100
1000
10000
FEs


P−DCN/f18/DIM40−2
Objective Value
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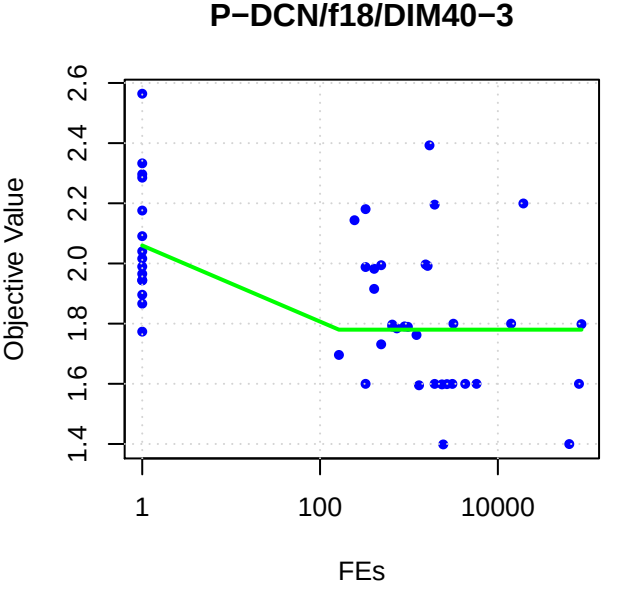
1.8
2.2
2.6
1
100
10000
FEs


P−DCN/f18/DIM40−3
Objective Value
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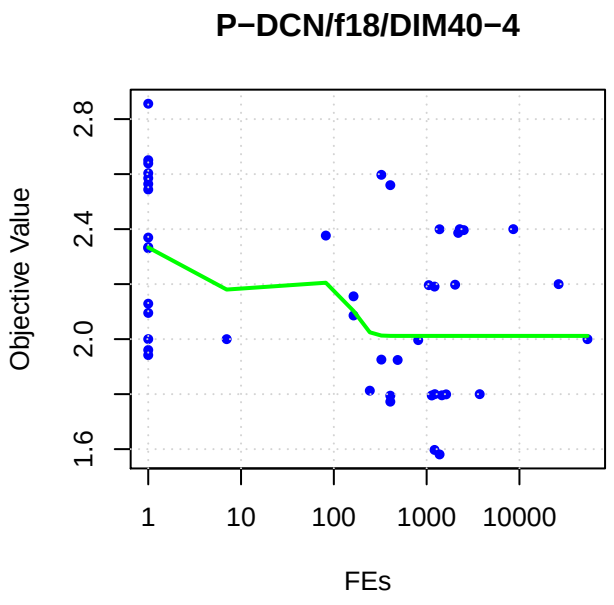
1.6
1.8
2.0
2.2
2.4
2.6
1
100
10000
FEs


P−DCN/f18/DIM40−4
Objective Value
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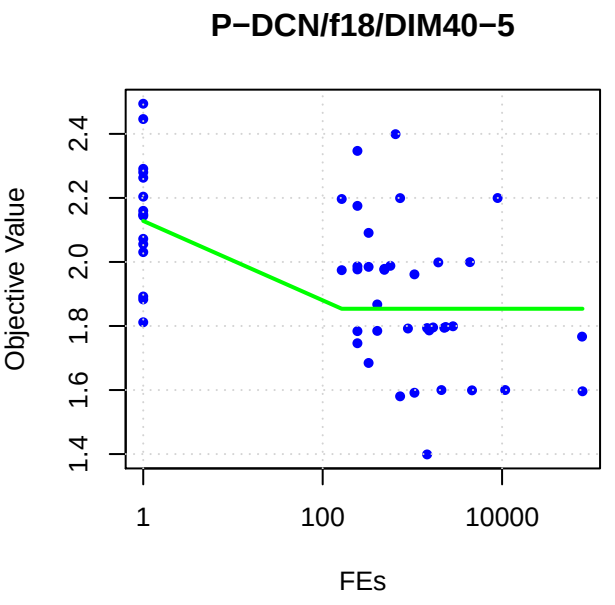
2.4
2.0
1.6
1
10
100
1000
10000
FEs


P−DCN/f18/DIM40−5
Objective Value
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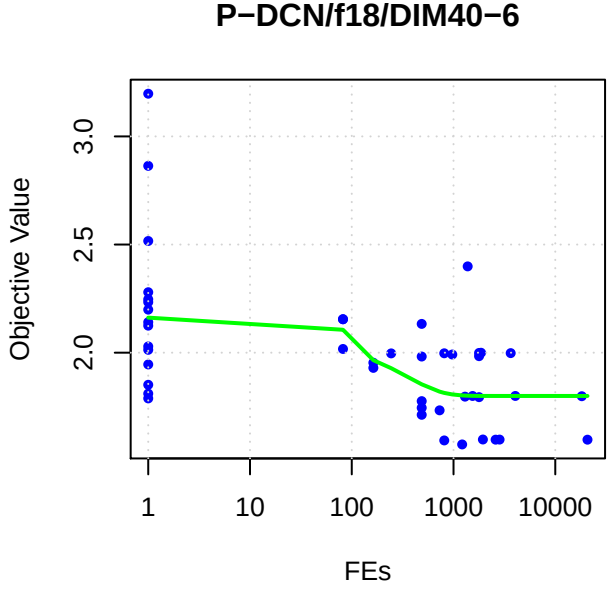
2.0
1.8
1.6
1.4
1
100
10000
FEs


P−DCN/f18/DIM40−6
Objective Value
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2.5
2.0
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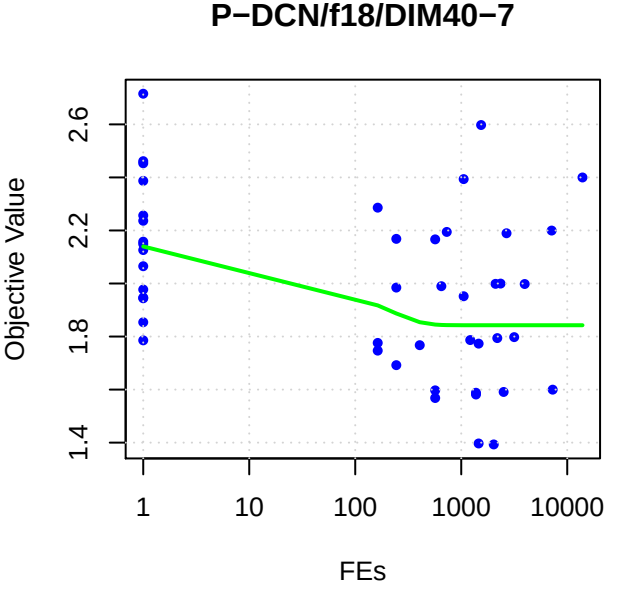
1000
10000
FEs


P−DCN/f18/DIM40−7
Objective Value
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2.2
1.8
1.4
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10
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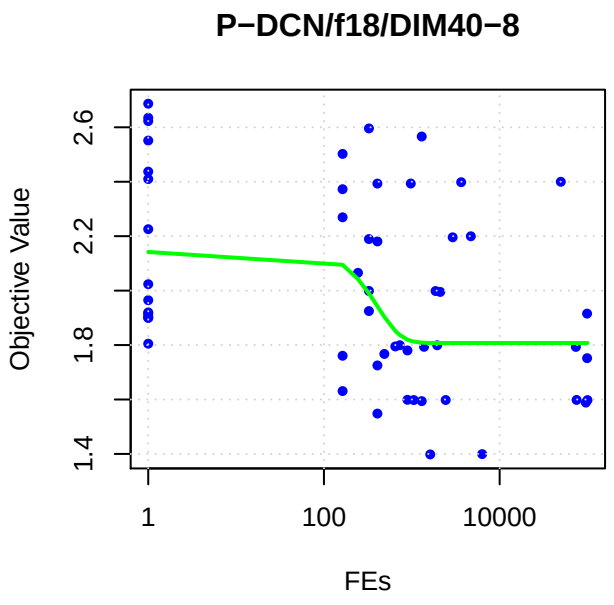
1000
10000
FEs


P−DCN/f18/DIM40−8
Objective Value
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1.8
2.2
2.6
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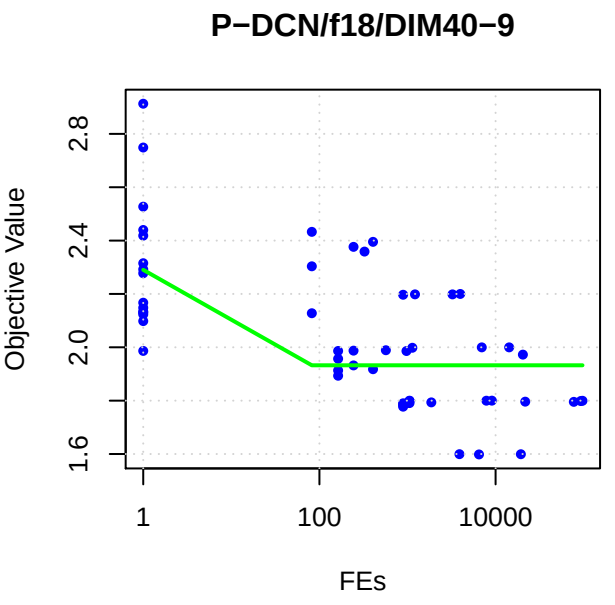
10000
FEs


P−DCN/f18/DIM40−9
Objective Value
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2.0
2.4
2.8
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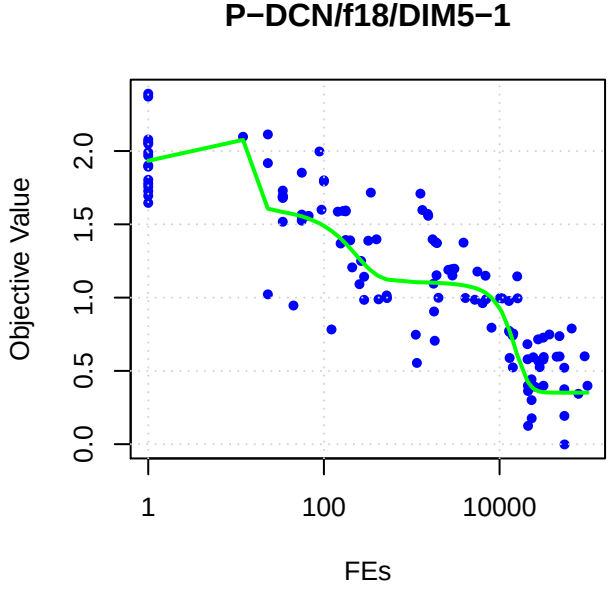
10000
FEs


P−DCN/f18/DIM5−1
Objective Value
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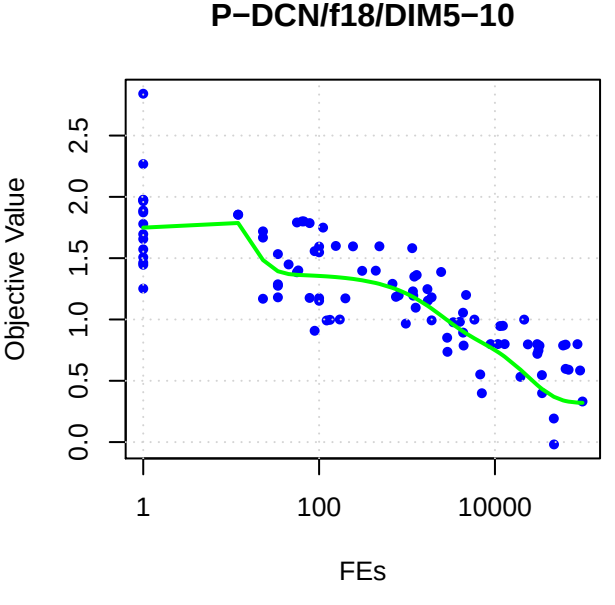
0.5
1.0
1.5
2.0
1
100
10000
FEs


P−DCN/f18/DIM5−10
Objective Value
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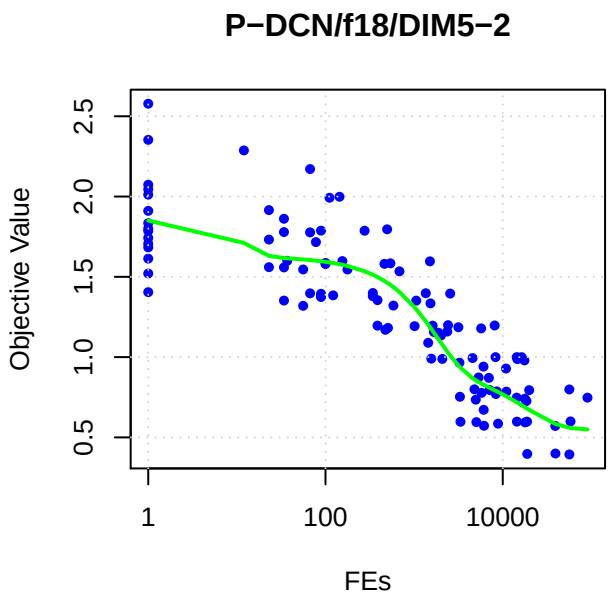
0.5
1.0
1.5
2.0
2.5
1
100
10000
FEs


P−DCN/f18/DIM5−2
Objective Value
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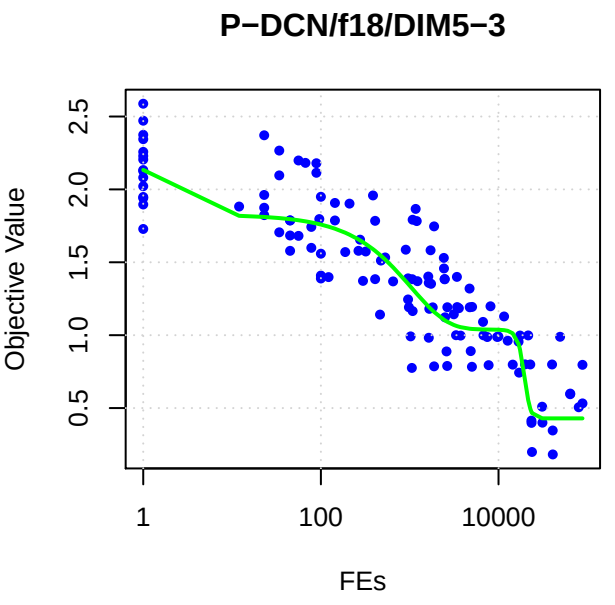
1.0
1.5
2.0
2.5
1
100
10000
FEs


P−DCN/f18/DIM5−3
Objective Value
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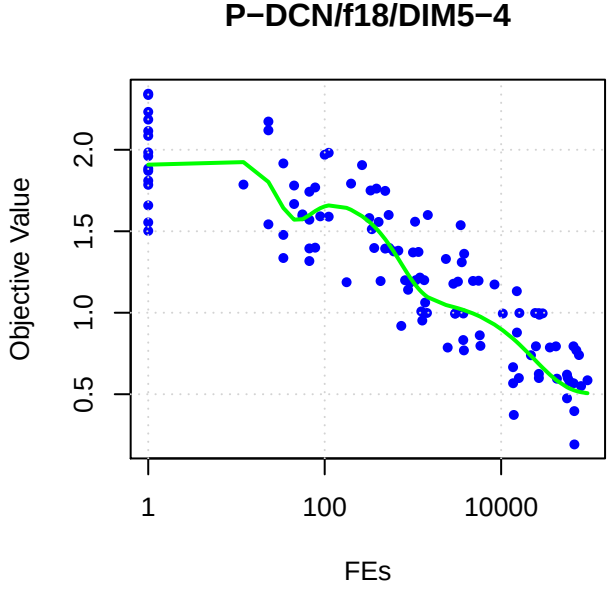
1.0
1.5
2.0
2.5
1
100
10000
FEs


P−DCN/f18/DIM5−4
Objective Value
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1.5
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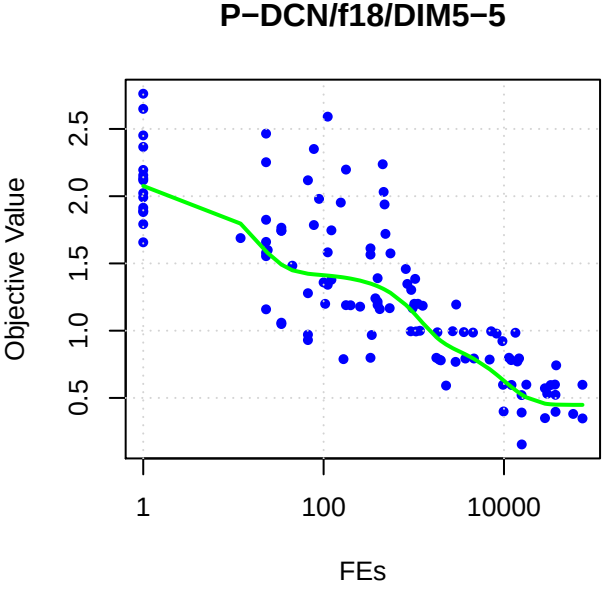
10000
FEs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1.5
2.0
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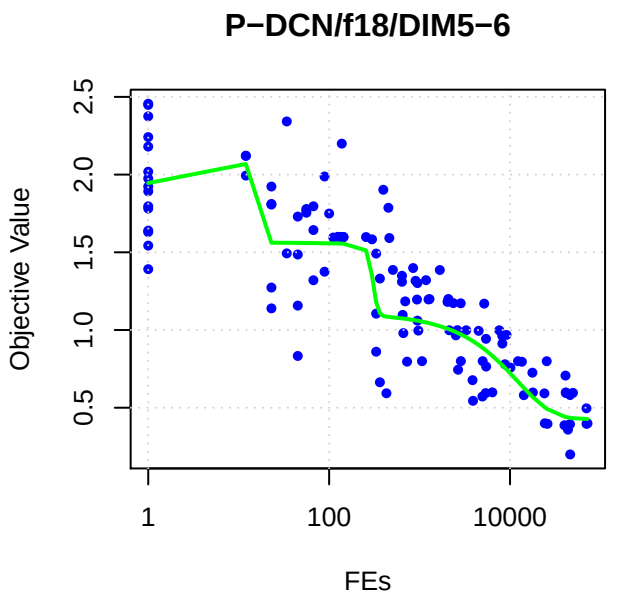
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1.5
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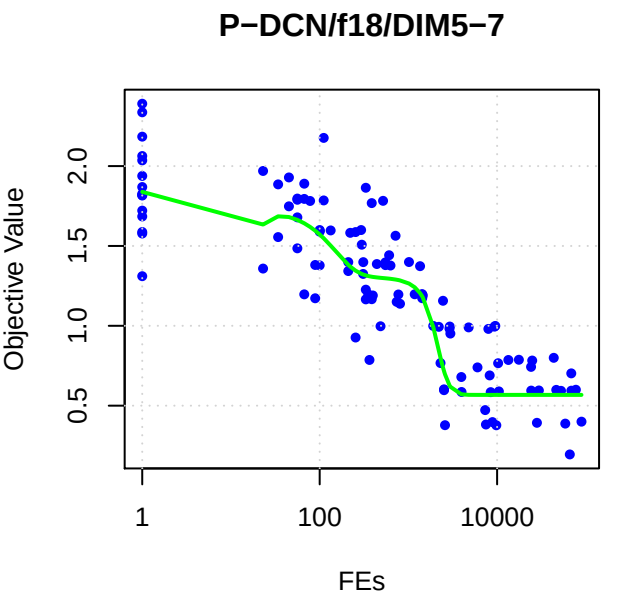
P−DCN/f18/DIM5−7
Objective Value
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1.0
1.5
2.0
1
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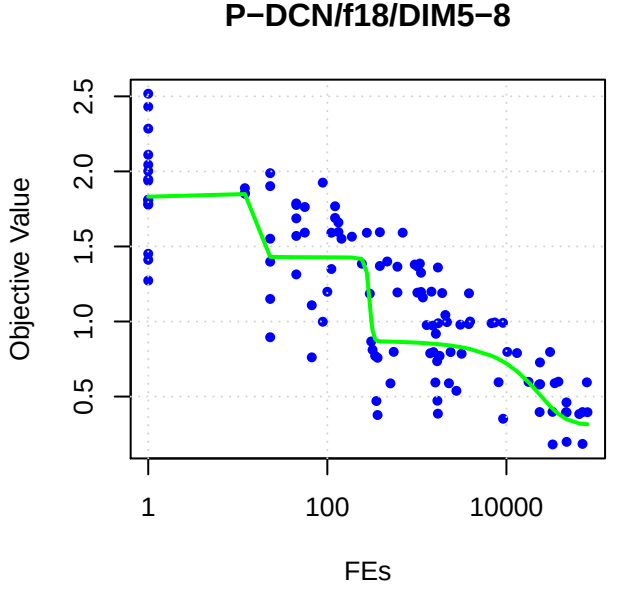
10000
FEs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2.0
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1
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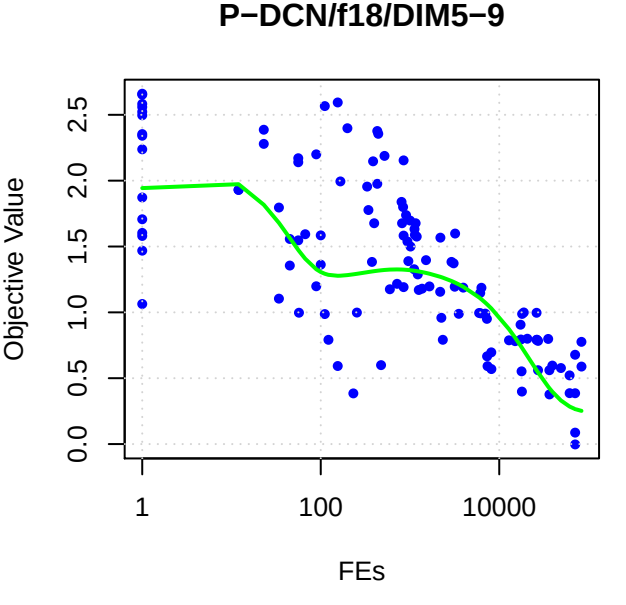
10000
FEs


P−DCN/f18/DIM5−9
Objective Value
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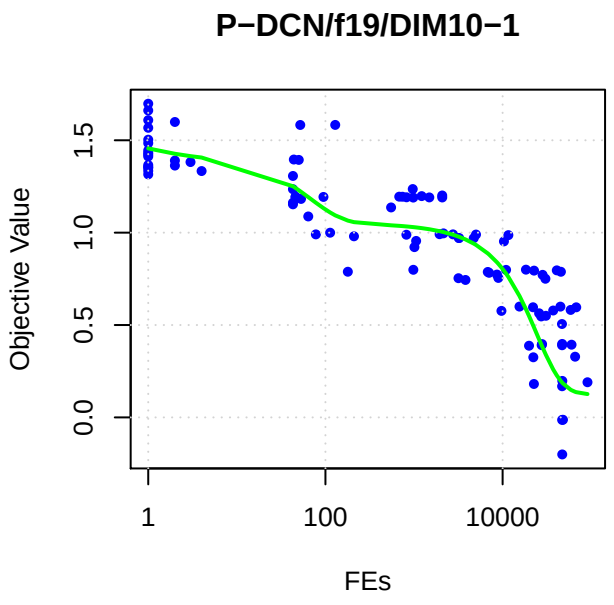
0.5
1.0
1.5
2.0
2.5
1
100
10000
FEs


P−DCN/f19/DIM10−1
Objective Value
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1.0
1.5
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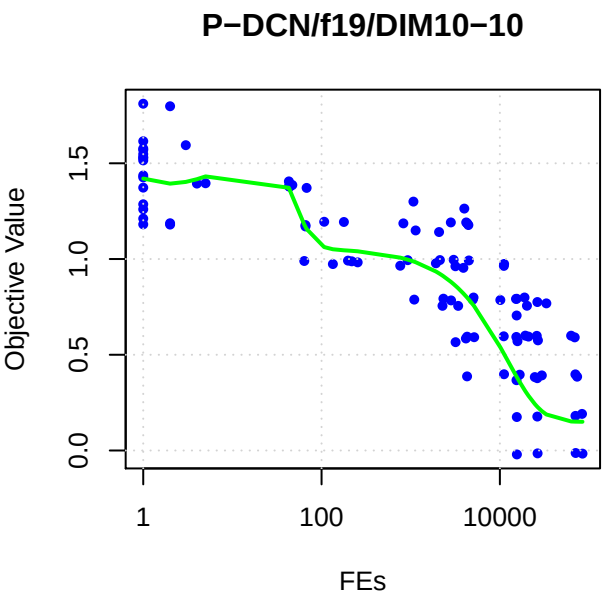
100
10000
FEs


P−DCN/f19/DIM10−10
Objective Value
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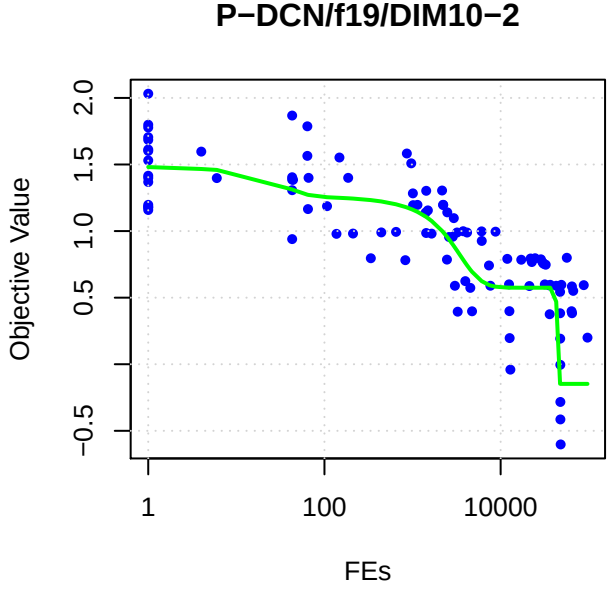
0.5
1.0
1.5
1
100
10000
FEs


P−DCN/f19/DIM10−2
Objective Value
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0.5
1.0
1.5
2.0
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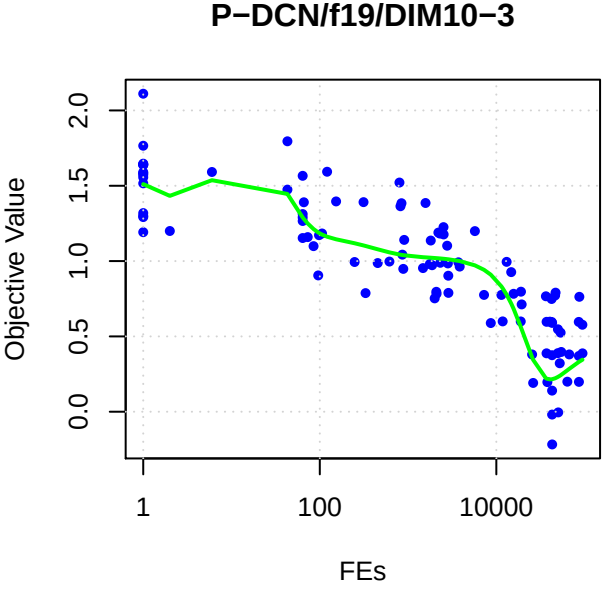
FEs


P−DCN/f19/DIM10−3
Objective Value
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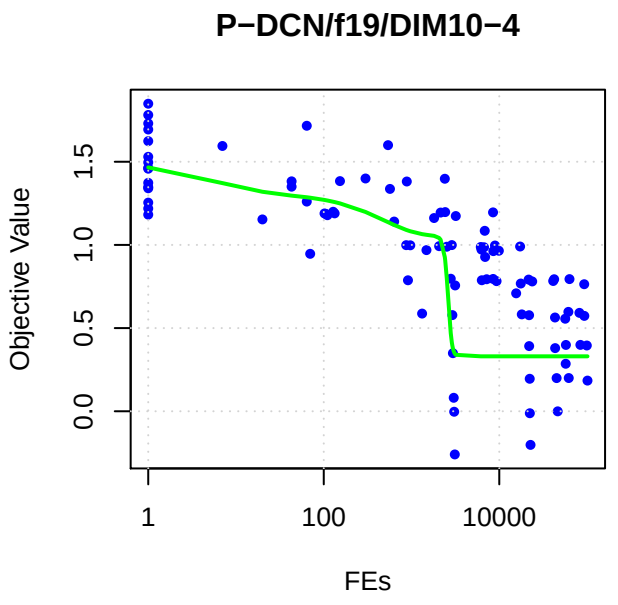
0.5
1.0
1.5
2.0
1
100
10000
FEs


P−DCN/f19/DIM10−4
Objective Value
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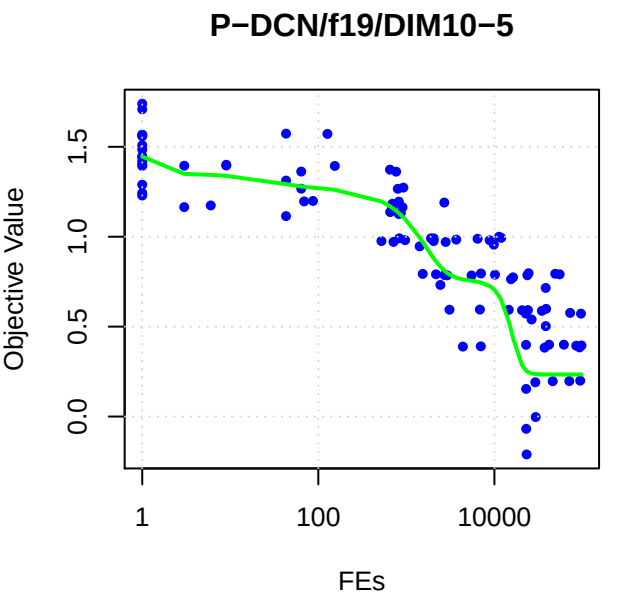
0.5
1.0
1.5
1
100
10000
FEs


P−DCN/f19/DIM10−5
Objective Value
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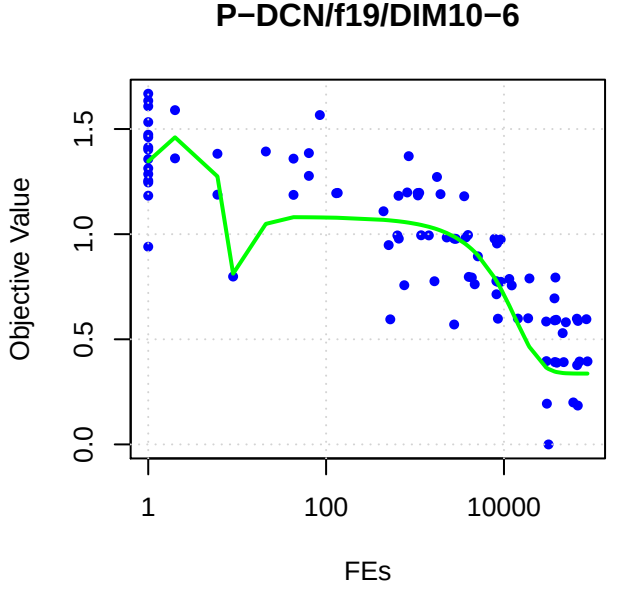
0.5
1.0
1.5
1
100
10000
FEs


P−DCN/f19/DIM10−6
Objective Value
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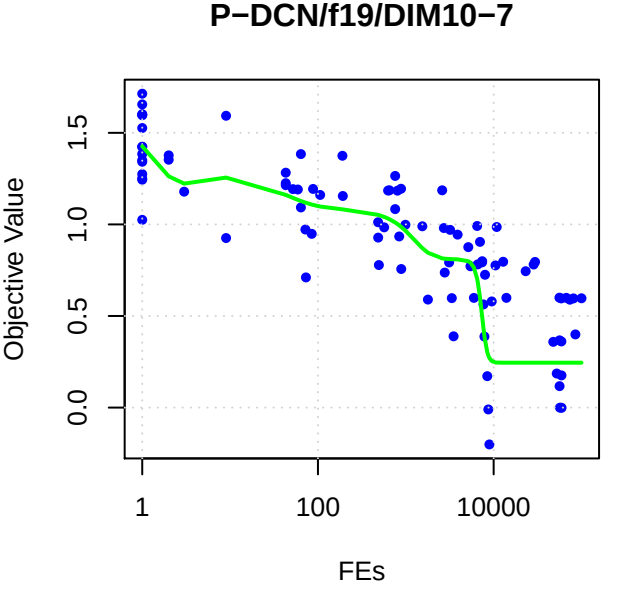
1.0
1.5
1
100
10000
FEs


P−DCN/f19/DIM10−7
Objective Value
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1.0
1.5
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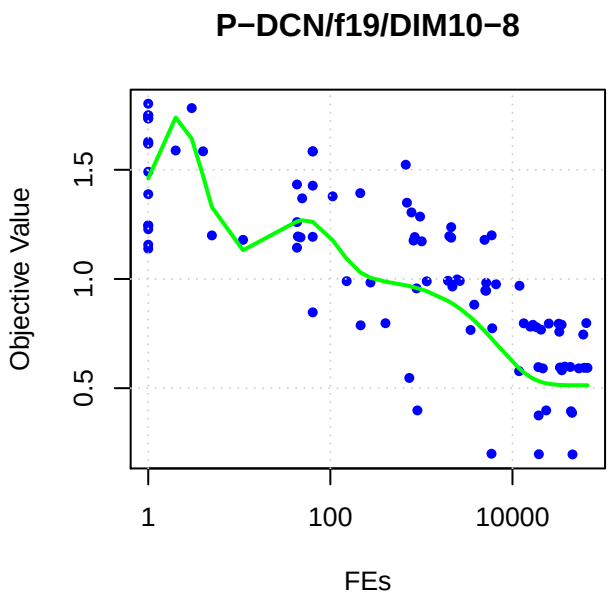
100
10000
FEs


P−DCN/f19/DIM10−8
Objective Value
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1.5
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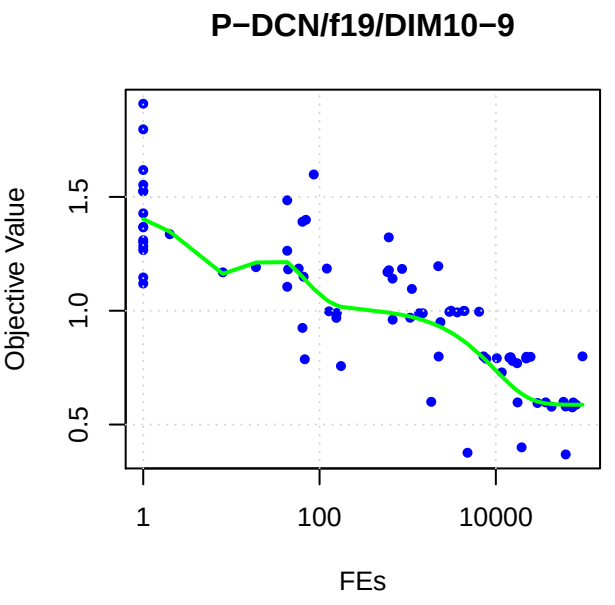
100
10000
FEs


P−DCN/f19/DIM10−9
Objective Value
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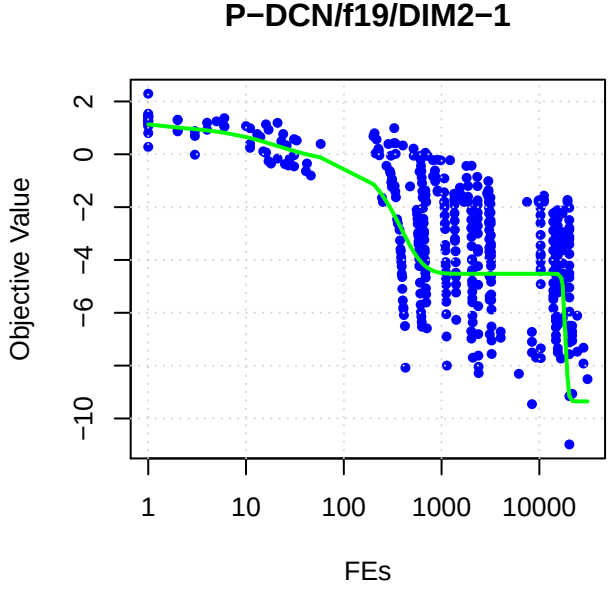
1.5
1
100
10000
FEs


P−DCN/f19/DIM2−1
Objective Value
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−4
−6
−10
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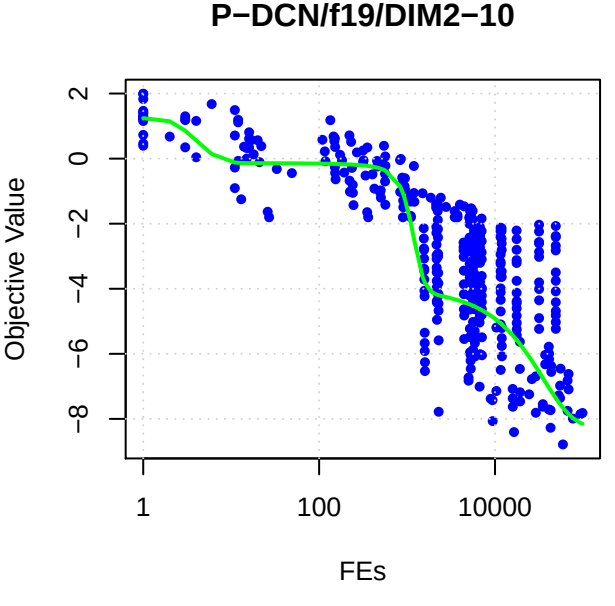
10
100
1000
10000
FEs


P−DCN/f19/DIM2−10
Objective Value
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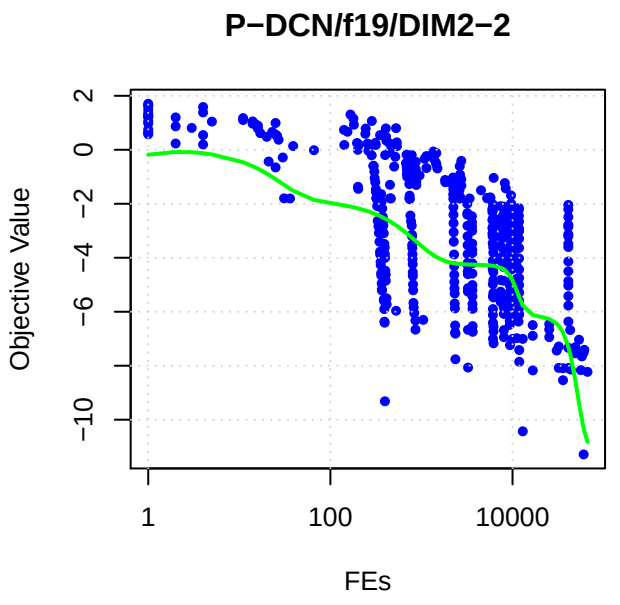
−2
−4
−6
−8
1
100
10000
FEs


P−DCN/f19/DIM2−2
Objective Value
FEs
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−6
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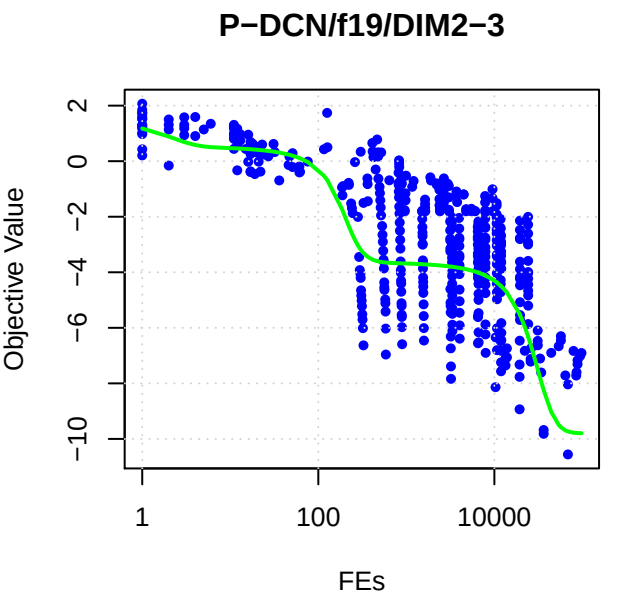
P−DCN/f19/DIM2−3
Objective Value
FEs
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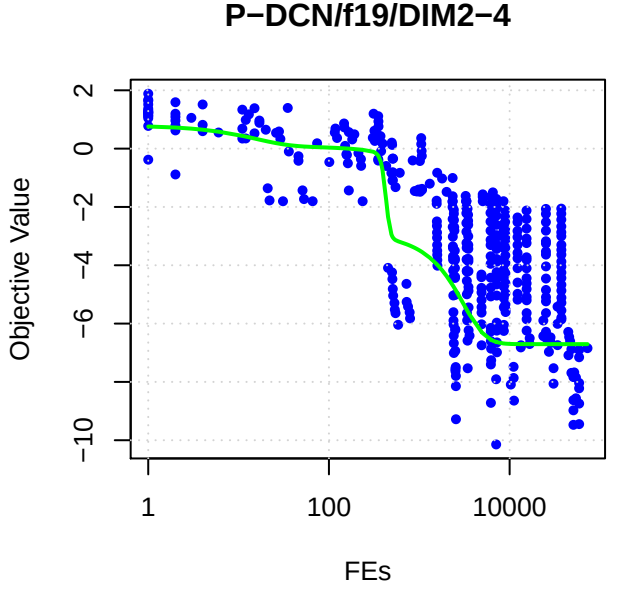
−2
−4
−6
−10
1
100
10000


P−DCN/f19/DIM2−4
Objective Value
FEs
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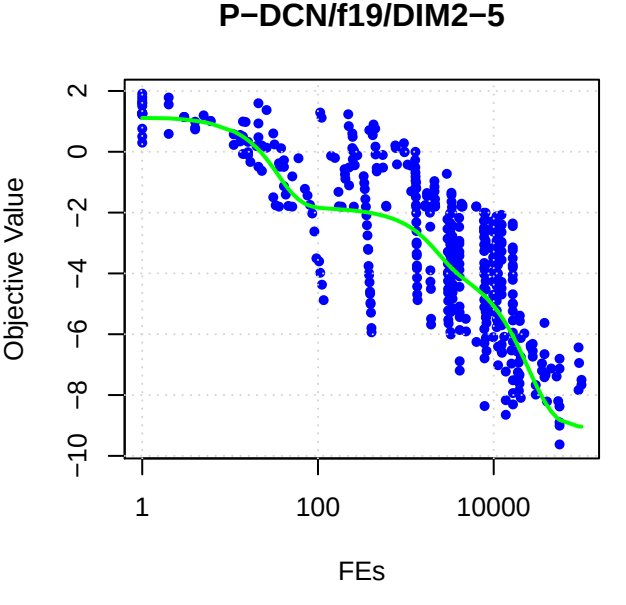
−2
−4
−6
−10
1
100
10000


P−DCN/f19/DIM2−5
Objective Value
FEs
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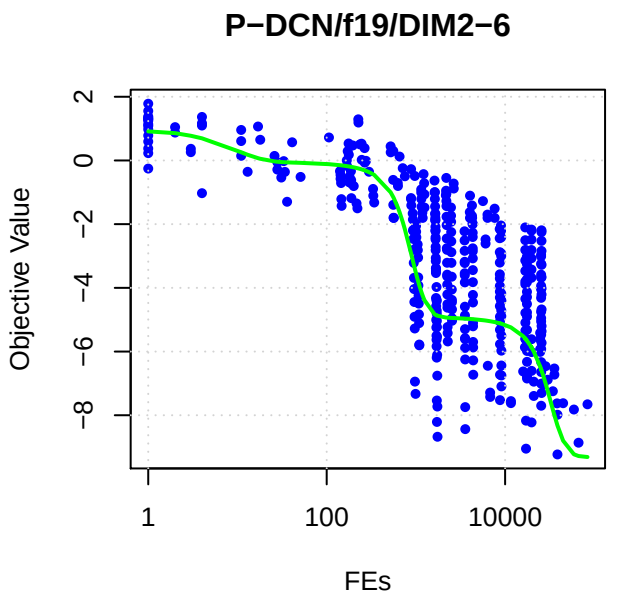
−2
−4
−6
−8
−10
1
100
10000


P−DCN/f19/DIM2−6
Objective Value
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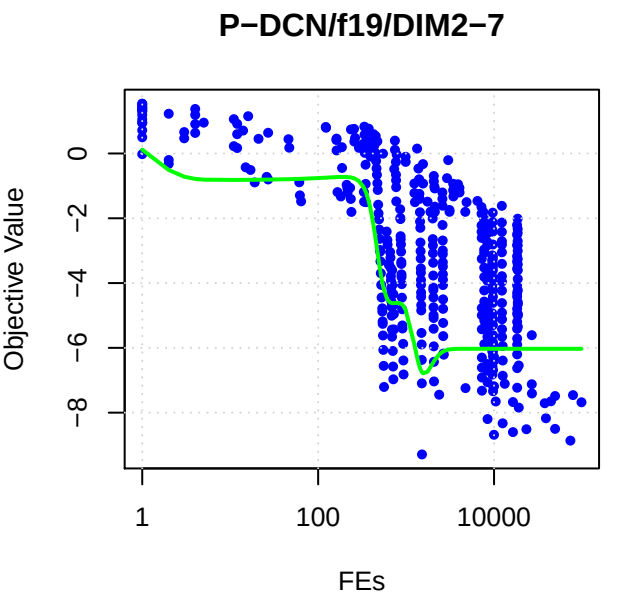
−2
−4
−6
−8
1
100
10000
FEs


P−DCN/f19/DIM2−7
Objective Value
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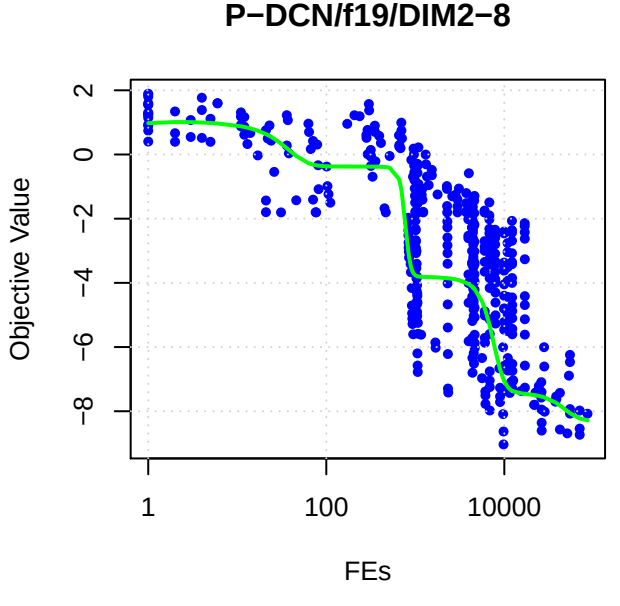
−4
−6
−8
1
100
10000
FEs


P−DCN/f19/DIM2−8
Objective Value
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−4
−6
−8
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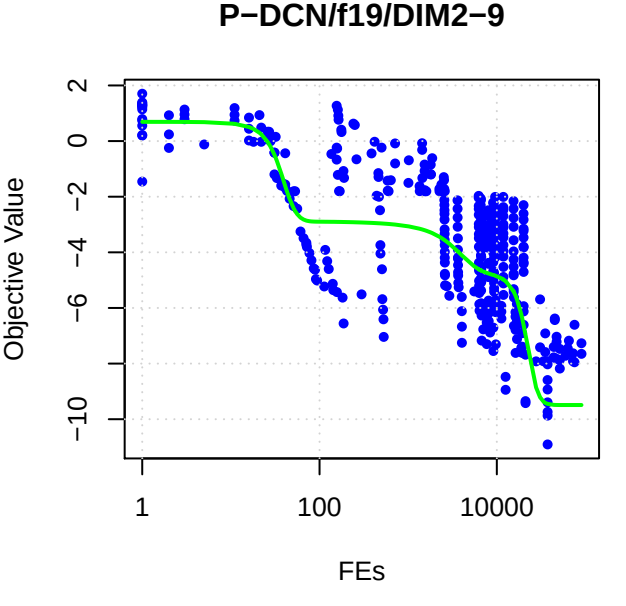
100
10000
FEs


P−DCN/f19/DIM2−9
Objective Value
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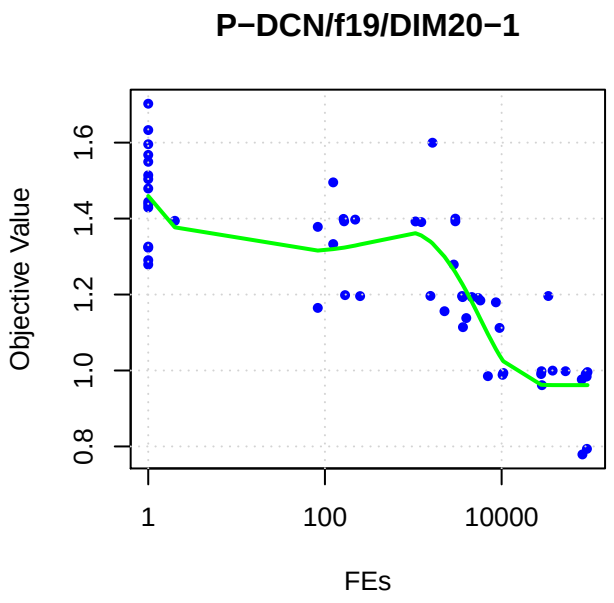
10000
FEs


P−DCN/f19/DIM20−1
Objective Value
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1.2
1.4
1.6
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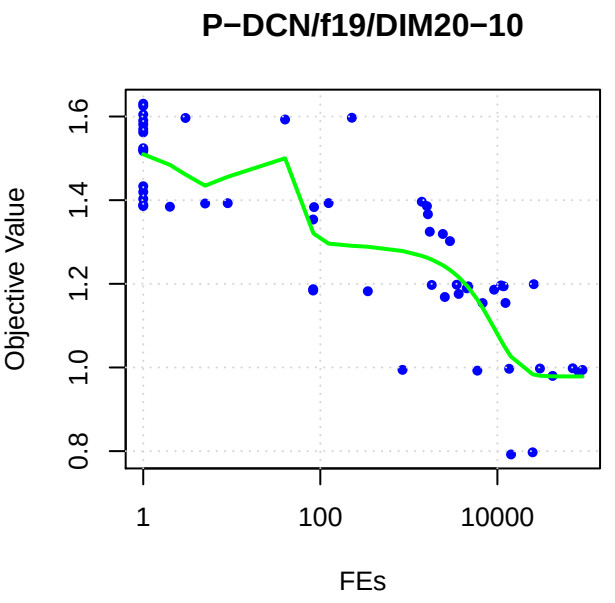
10000
FEs


P−DCN/f19/DIM20−10
Objective Value
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1.2
1.4
1.6
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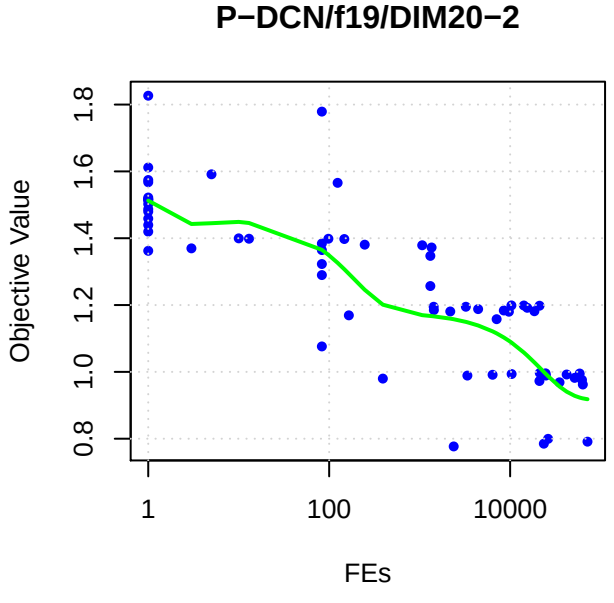
10000
FEs


P−DCN/f19/DIM20−2
Objective Value
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1.2
1.4
1.6
1.8
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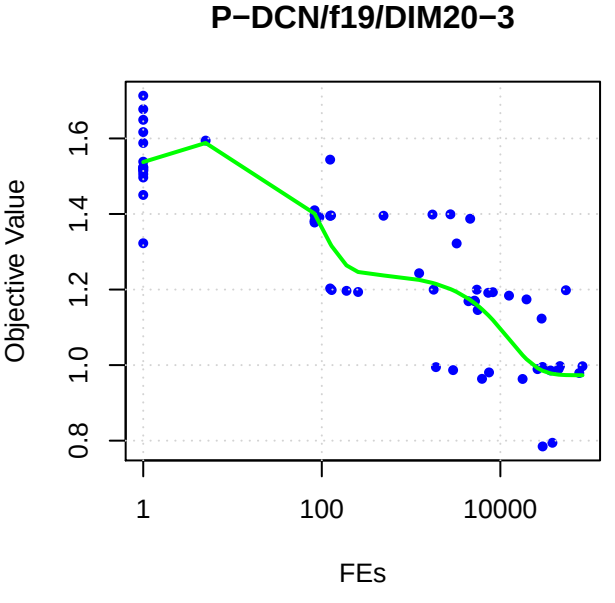
FEs


P−DCN/f19/DIM20−3
Objective Value
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1.0
1.2
1.4
1.6
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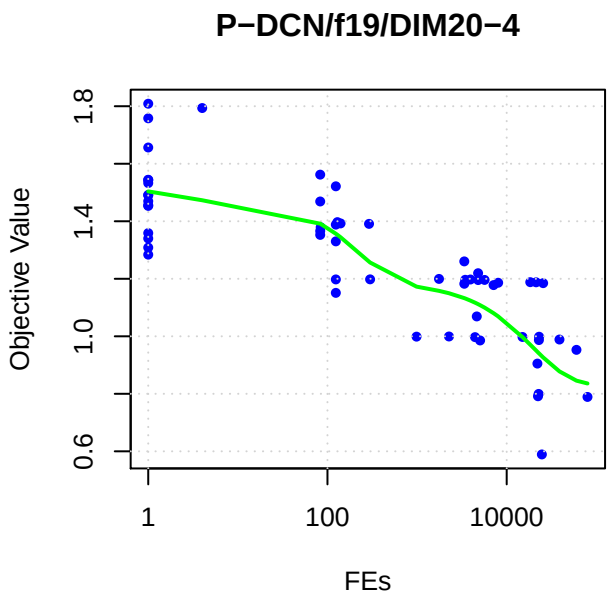
10000
FEs


P−DCN/f19/DIM20−4
Objective Value
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1.4
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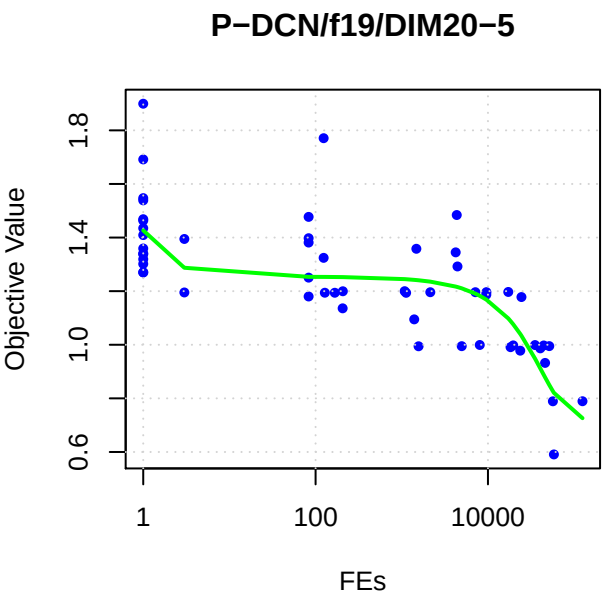
FEs


P−DCN/f19/DIM20−5
Objective Value
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1.4
1.8
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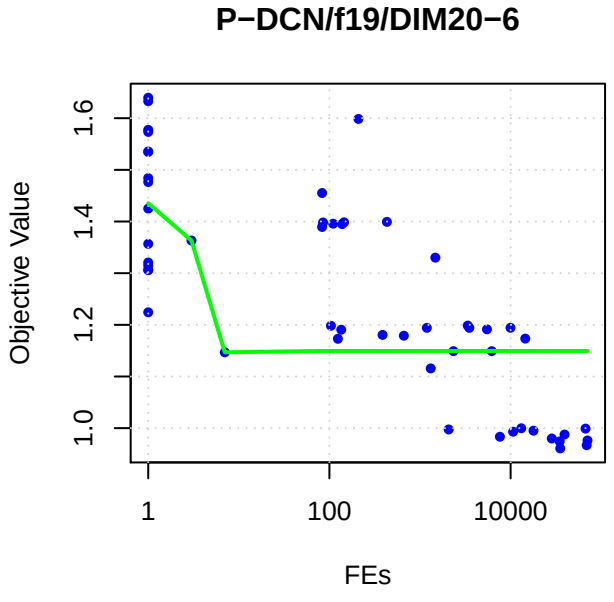
10000
FEs


P−DCN/f19/DIM20−6
Objective Value
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1.2
1.4
1.6
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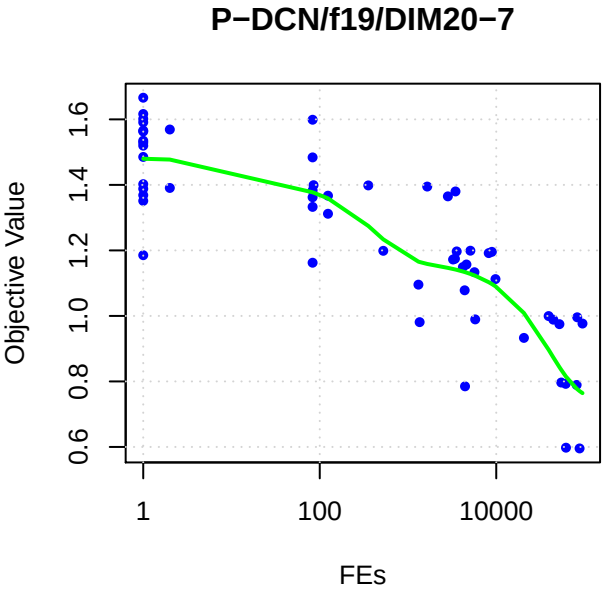
10000
FEs


P−DCN/f19/DIM20−7
Objective Value
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1.0
1.2
1.4
1.6
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100
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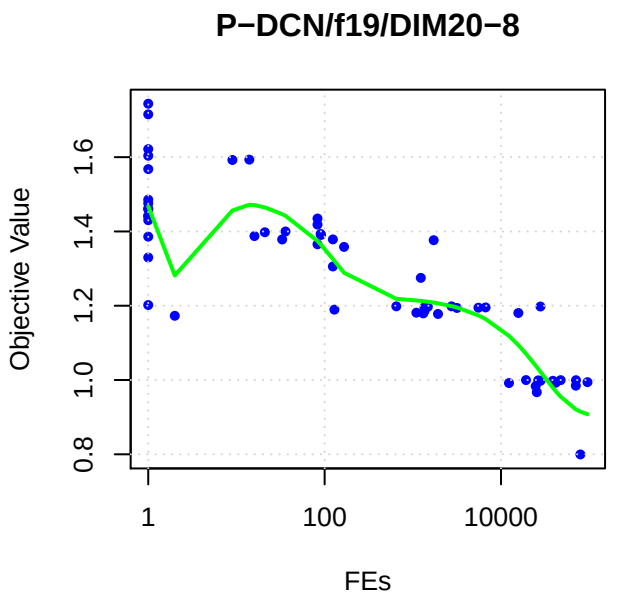
FEs


P−DCN/f19/DIM20−8
Objective Value
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1.0
1.2
1.4
1.6
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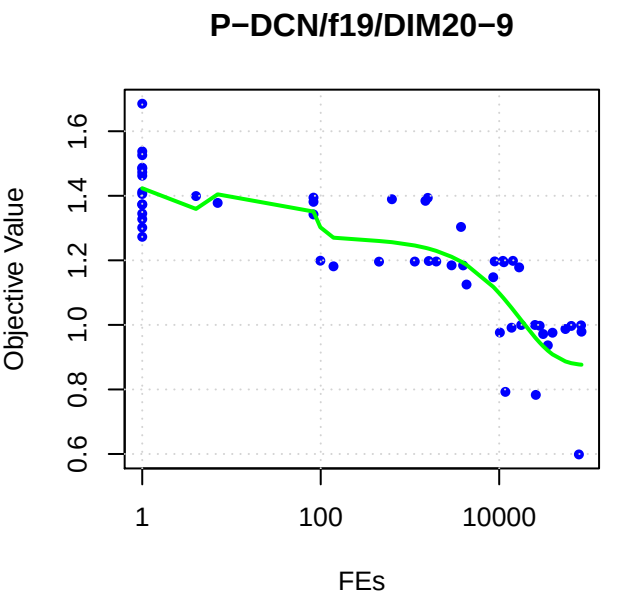
10000
FEs


P−DCN/f19/DIM20−9
Objective Value
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1.0
1.2
1.4
1.6
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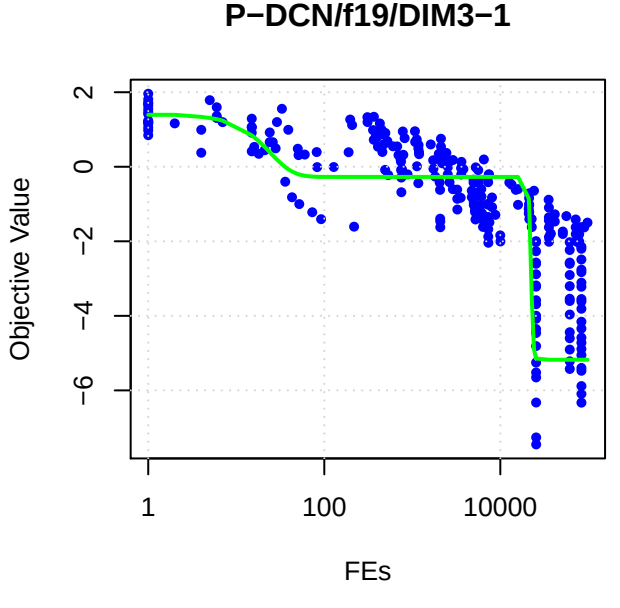
FEs


P−DCN/f19/DIM3−1
Objective Value
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−4
−2
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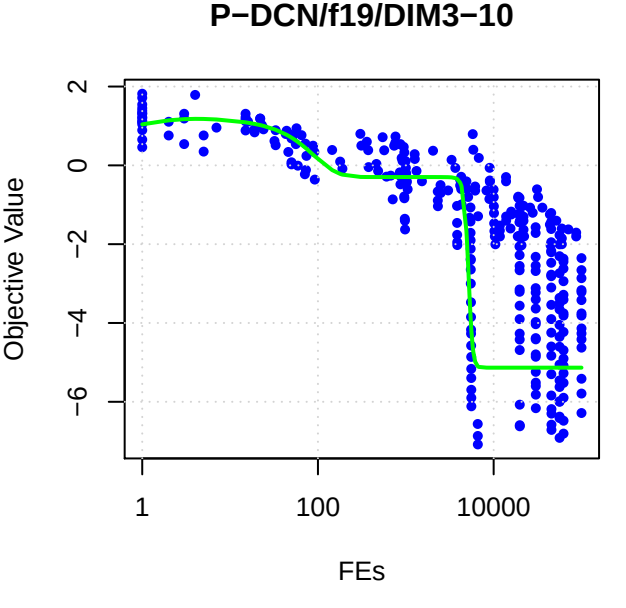
1
100
10000
FEs


P−DCN/f19/DIM3−10
Objective Value
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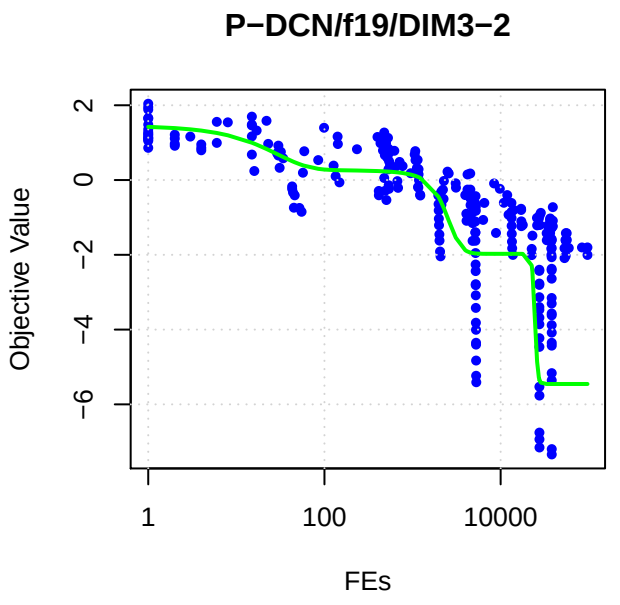
P−DCN/f19/DIM3−2
Objective Value
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−4
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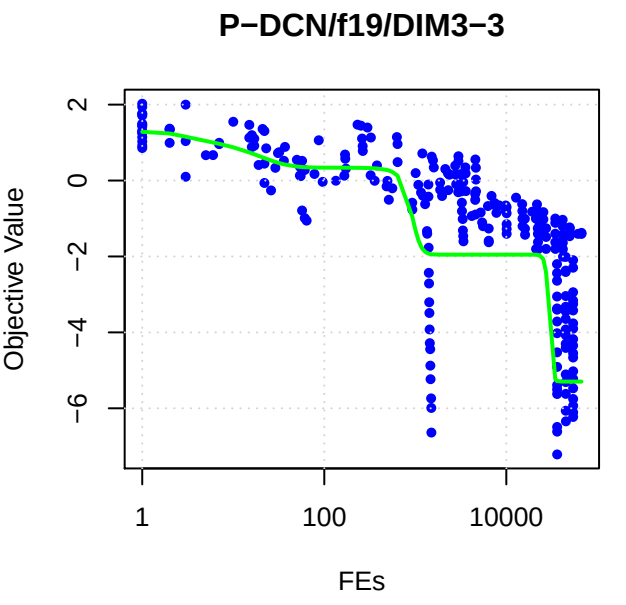
1
100
10000
FEs


P−DCN/f19/DIM3−3
Objective Value
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−4
−6
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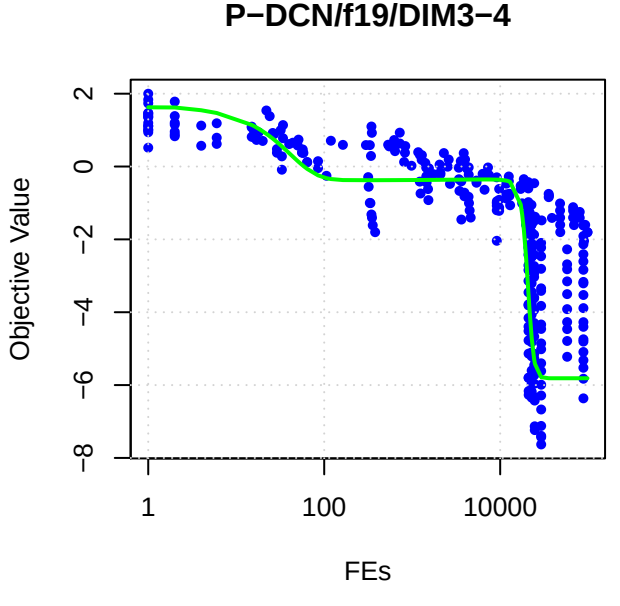
100
10000
FEs


P−DCN/f19/DIM3−4
Objective Value
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−6
−8
1
100
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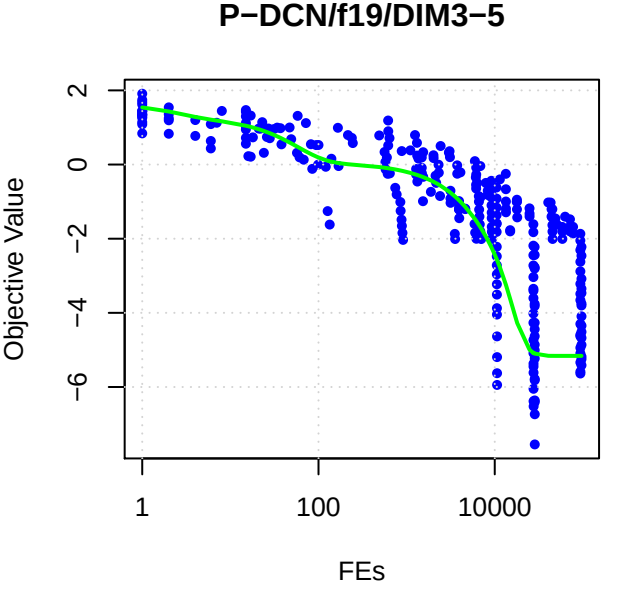
P−DCN/f19/DIM3−5
Objective Value
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−2
−4
−6
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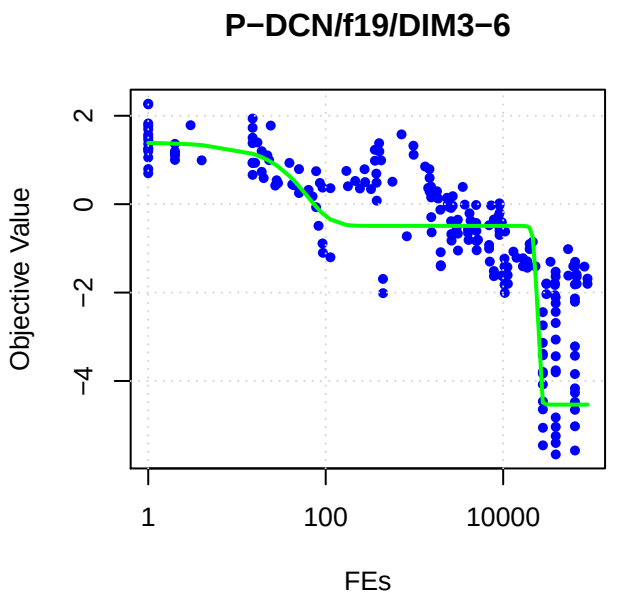
100
10000
FEs


P−DCN/f19/DIM3−6
Objective Value
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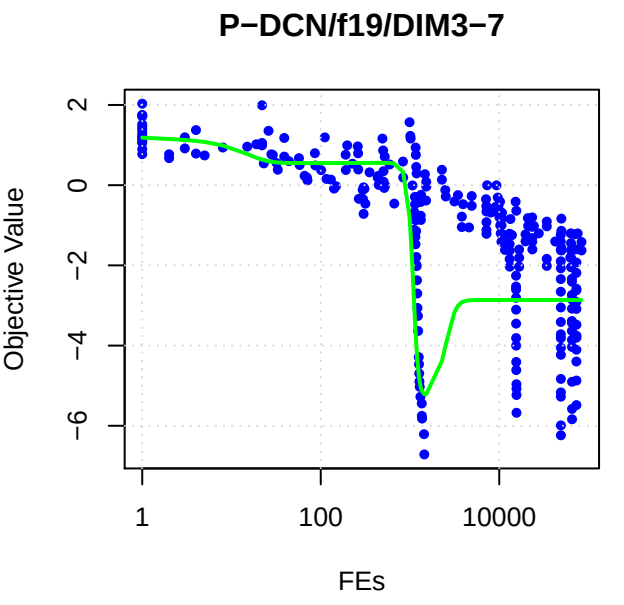
−2
−4
1
100
10000
FEs


P−DCN/f19/DIM3−7
Objective Value
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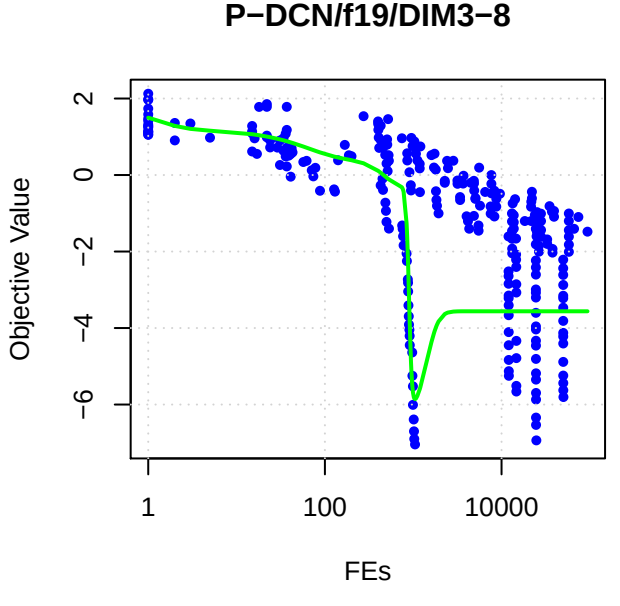
0
−2
−4
−6
1
100
10000
FEs


P−DCN/f19/DIM3−8
Objective Value
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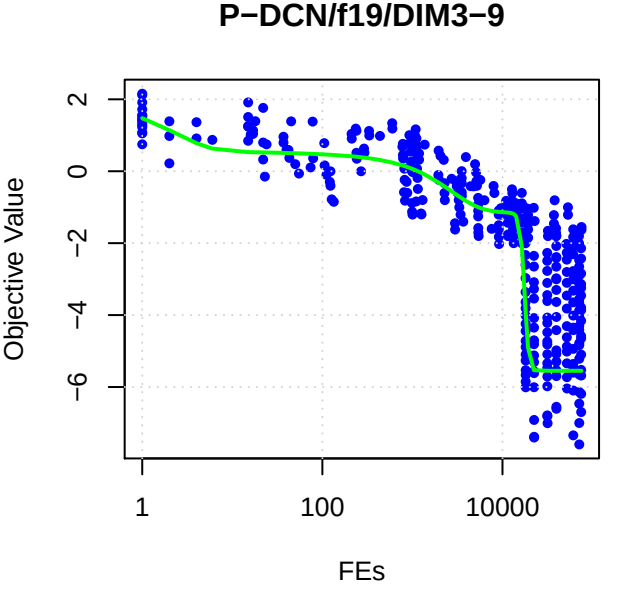
−2
−4
−6
1
100
10000
FEs


P−DCN/f19/DIM3−9
Objective Value
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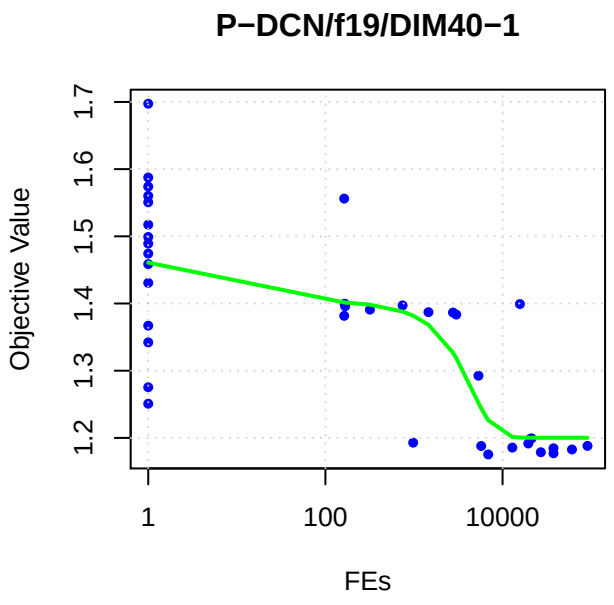
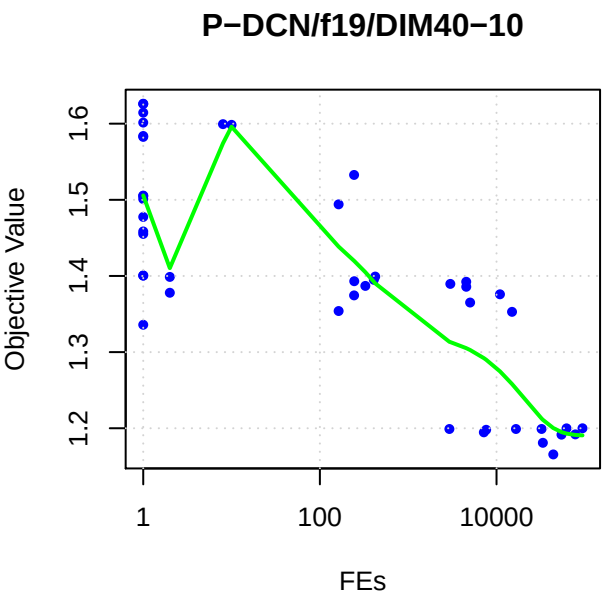
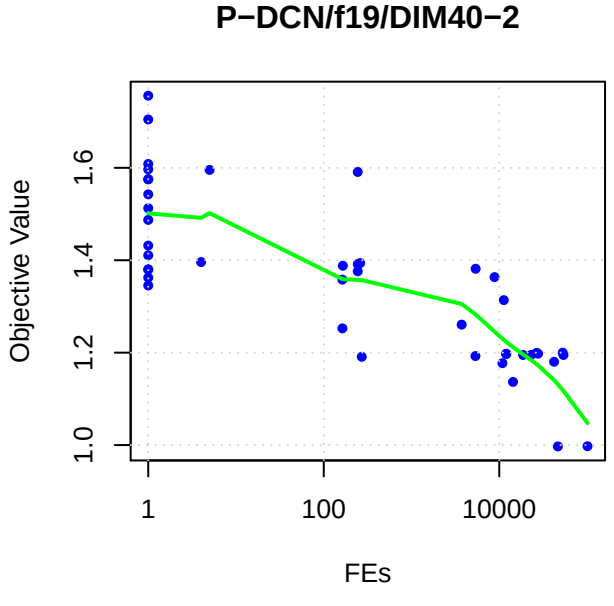
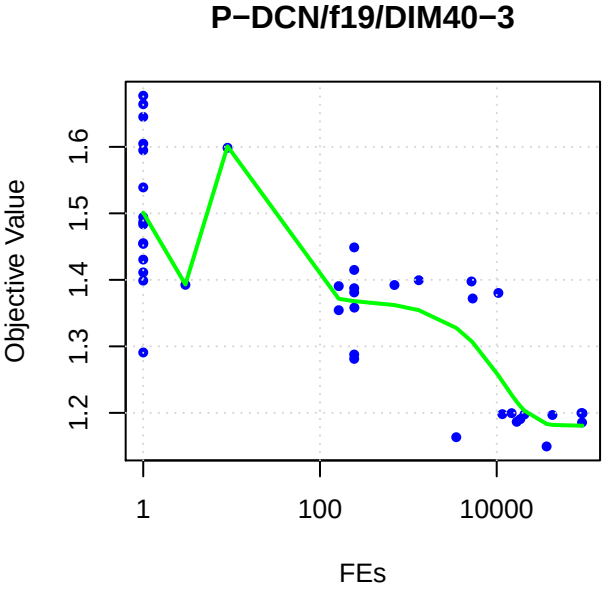
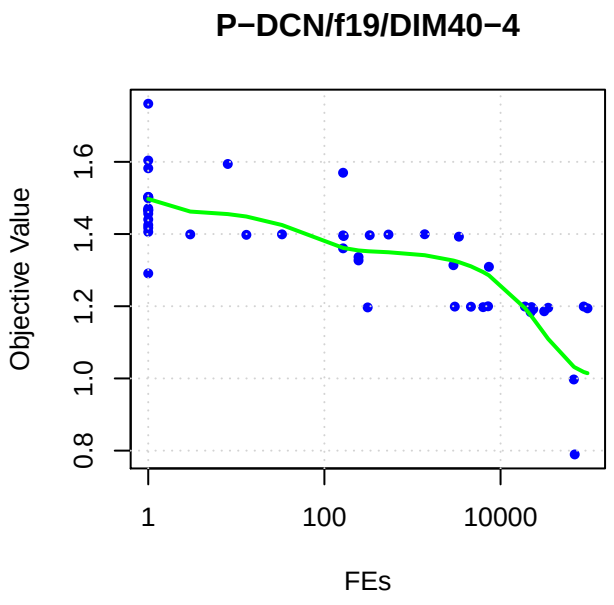
−2
−4
−6
1
100
10000
FEs

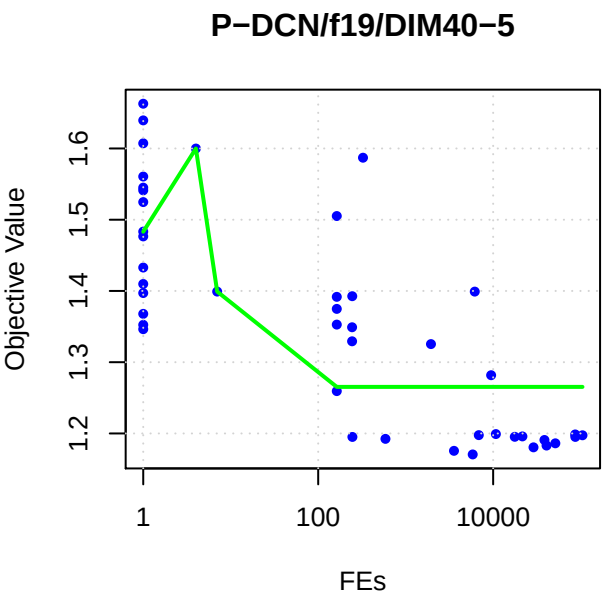

P−DCN/f19/DIM40−1
Objective Value
1.2
1.3
1.4
1.5
1.6
1.7
1
100
10000
FEs

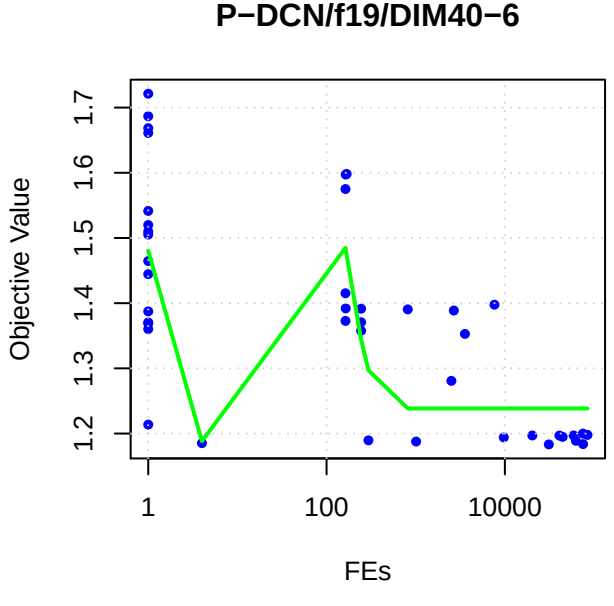

P−DCN/f19/DIM40−10
Objective Value
1.2
1.3
1.4
1.5
1.6
1
100
10000
FEs

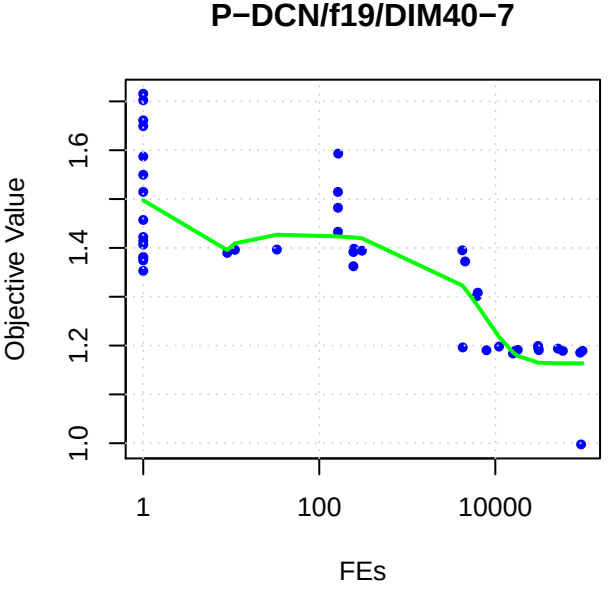

P−DCN/f19/DIM40−2
Objective Value
1.0
1.2
1.4
1.6
1
100
10000
FEs

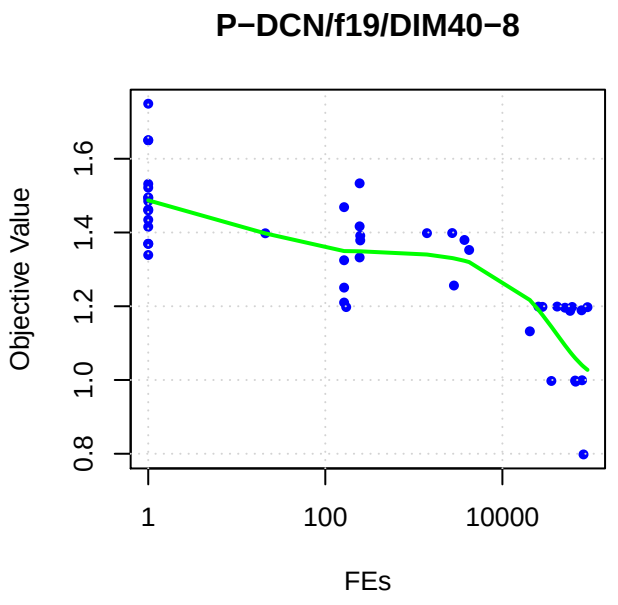

P−DCN/f19/DIM40−3
Objective Value
1.2
1.3
1.4
1.5
1.6
1
100
10000
FEs

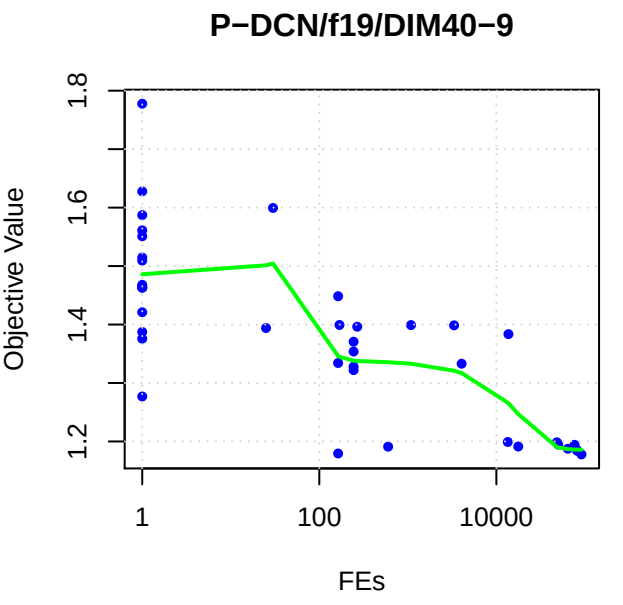

P−DCN/f19/DIM40−4
Objective Value
0.8
1.0
1.2
1.4
1.6
1
100
10000
FEs


P−DCN/f19/DIM40−5
Objective Value
1.2
1.3
1.4
1.5
1.6
1
100
10000
FEs


P−DCN/f19/DIM40−6
Objective Value
1.2
1.3
1.4
1.5
1.6
1.7
1
100
10000
FEs


P−DCN/f19/DIM40−7
Objective Value
1.0
1.2
1.4
1.6
1
100
10000
FEs


P−DCN/f19/DIM40−8
Objective Value
0.8
1.0
1.2
1.4
1.6
1
100
10000
FEs


P−DCN/f19/DIM40−9
Objective Value
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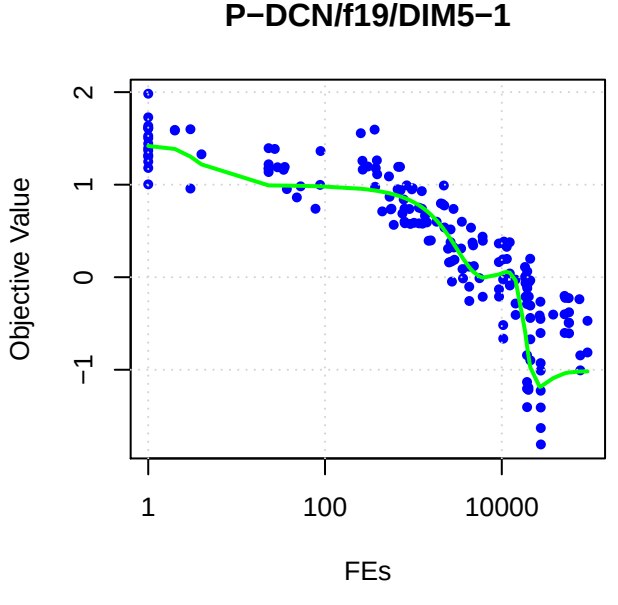
1.4
1.6
1.8
1
100
10000
FEs


P−DCN/f19/DIM5−1
Objective Value
−1
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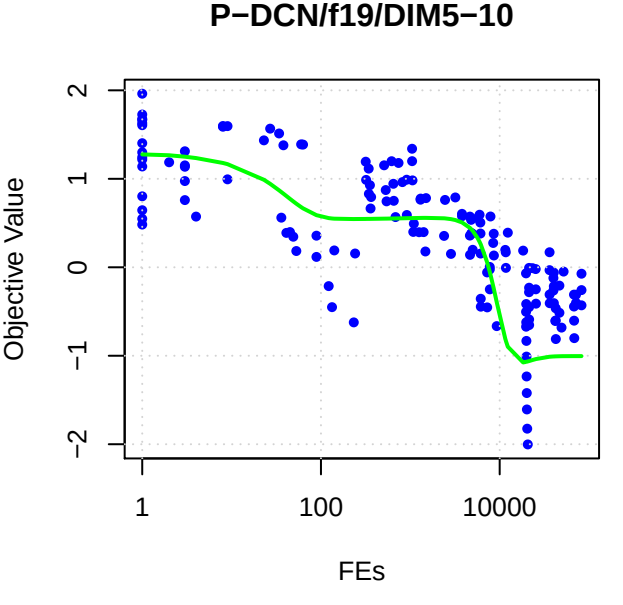
1
2
1
100
10000
FEs


P−DCN/f19/DIM5−10
Objective Value
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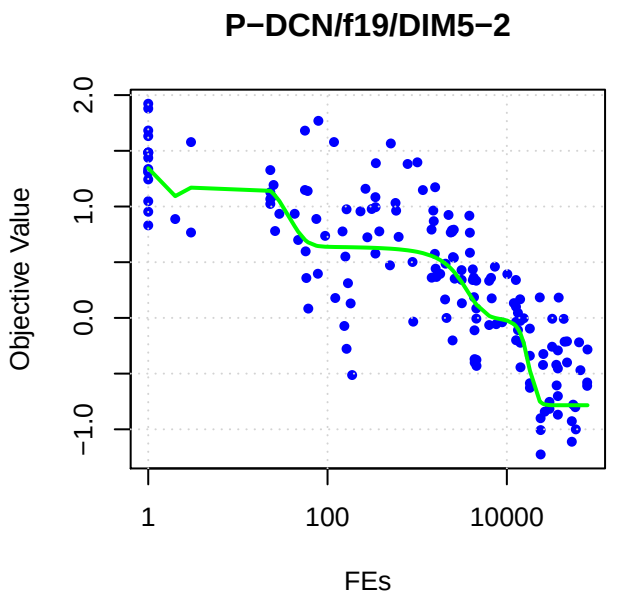
−1
0
1
2
1
100
10000
FEs


P−DCN/f19/DIM5−2
Objective Value
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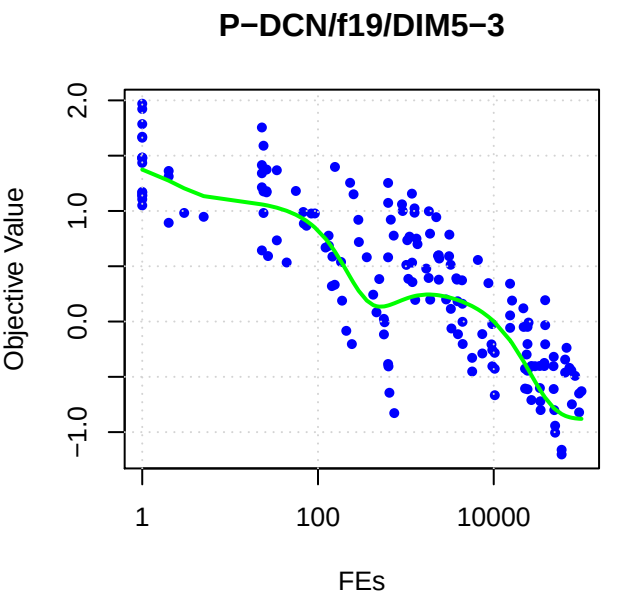
1.0
0.0
−1.0
1
100
10000
FEs


P−DCN/f19/DIM5−3
Objective Value
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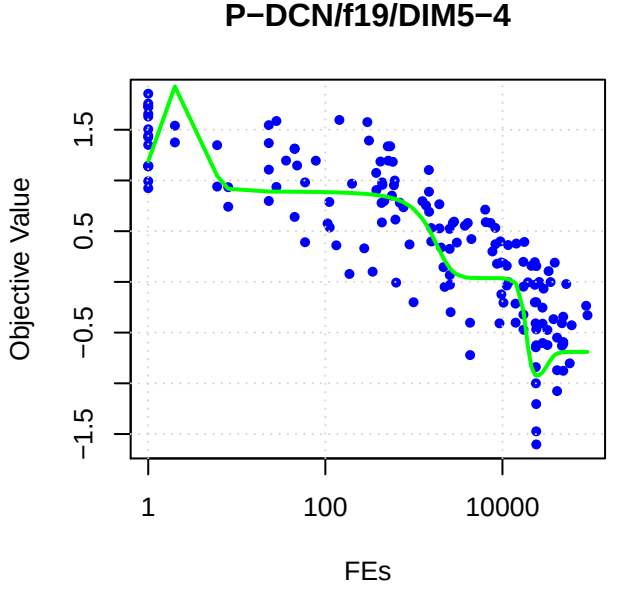
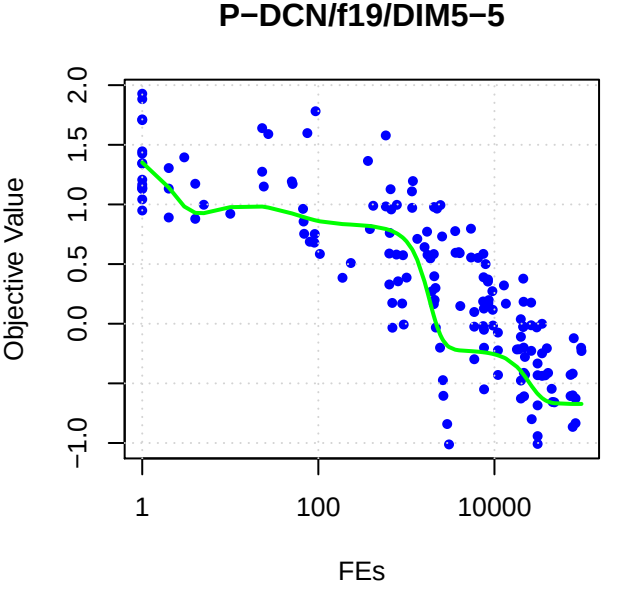
1.0
0.0
−1.0
1
100
10000
FEs


P−DCN/f19/DIM5−4
Objective Value
1.5
0.5
−0.5
−1.5
1
100
10000
FEs


P−DCN/f19/DIM5−5
Objective Value
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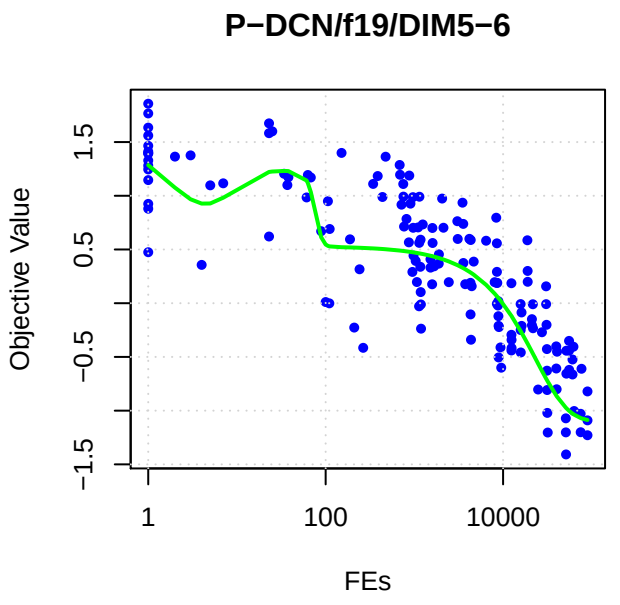
1.5
1.0
0.5
0.0
−1.0
1
100
10000
FEs


P−DCN/f19/DIM5−6
Objective Value
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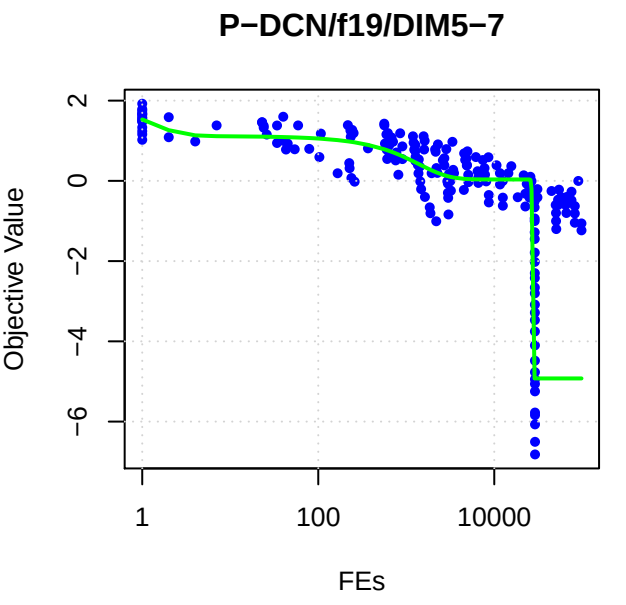
0.5
−0.5
−1.5
1
100
10000
FEs


P−DCN/f19/DIM5−7
Objective Value
2
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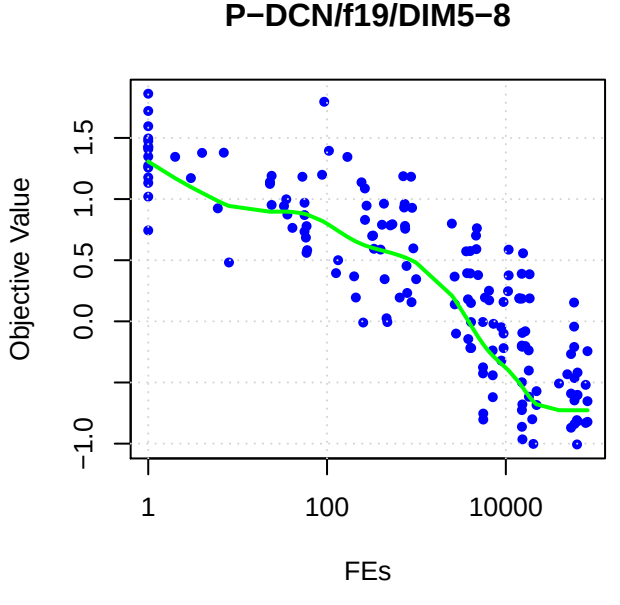
−2
−4
−6
1
100
10000
FEs


P−DCN/f19/DIM5−8
Objective Value
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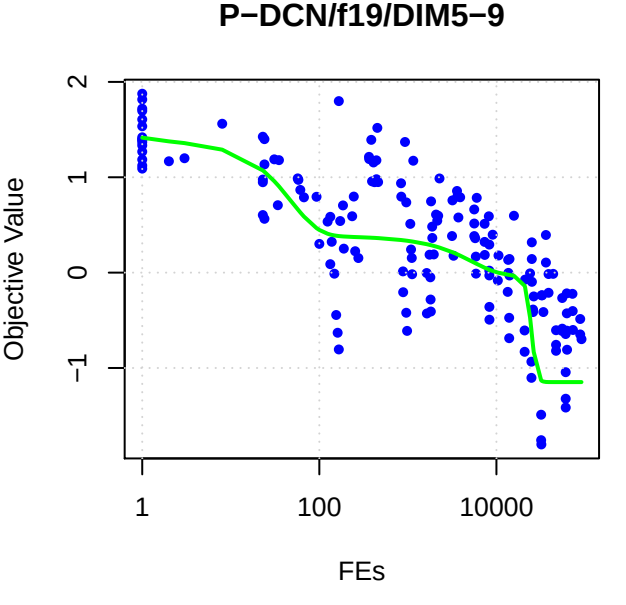
1.0
0.5
0.0
−1.0
1
100
10000
FEs


P−DCN/f19/DIM5−9
Objective Value
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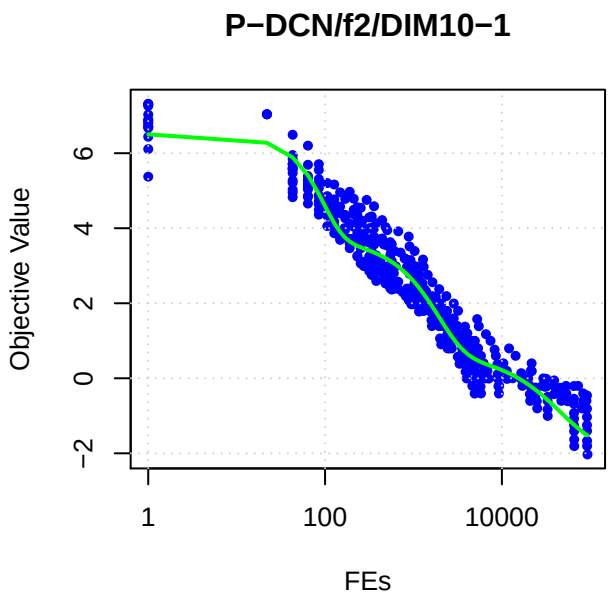
1
0
−1
1
100
10000
FEs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Objective Value
FEs
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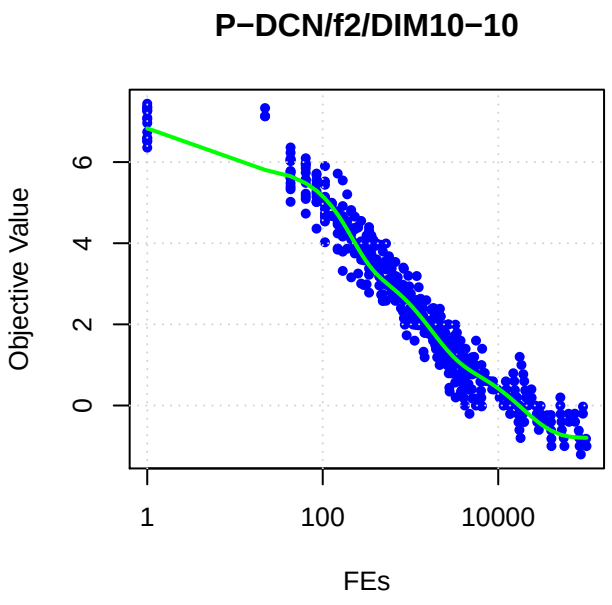
10000
−2
0
2
4
6


P−DCN/f2/DIM10−10
Objective Value
FEs
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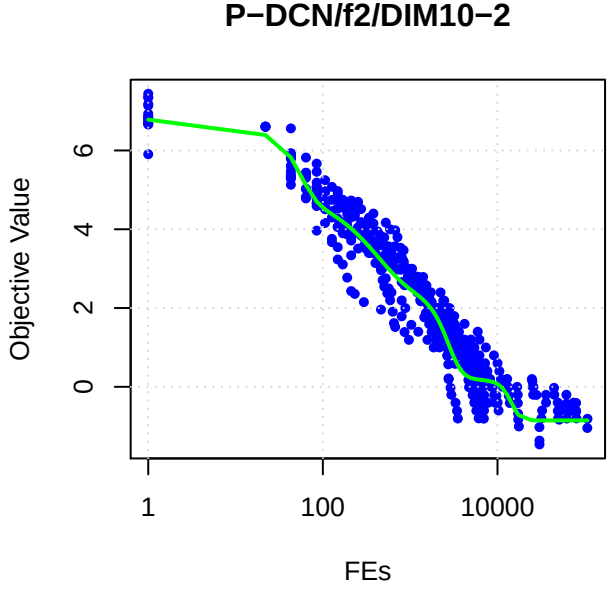
10000
0
2
4
6


P−DCN/f2/DIM10−2
Objective Value
FEs
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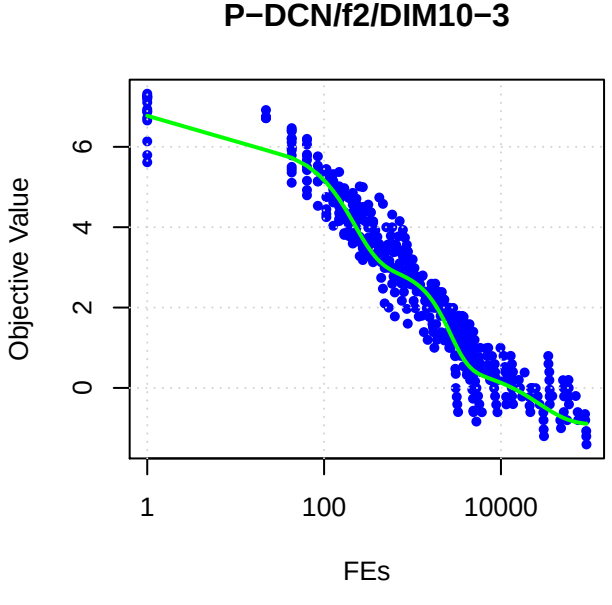
100
10000
0
2
4
6


P−DCN/f2/DIM10−3
Objective Value
FEs
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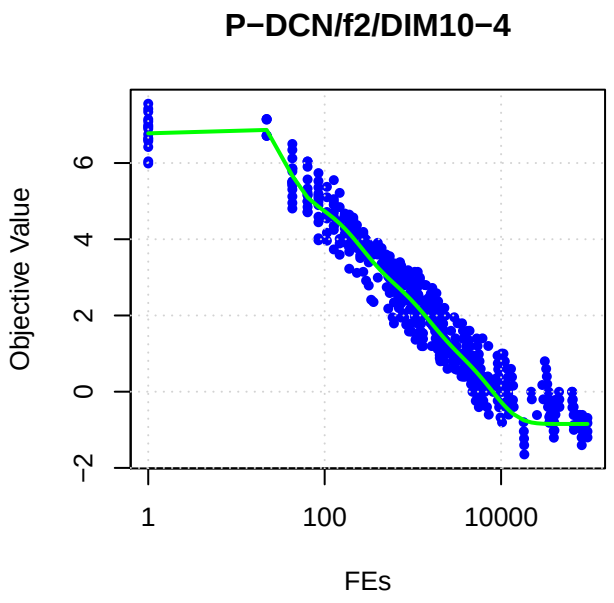
10000
0
2
4
6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Objective Value
FEs
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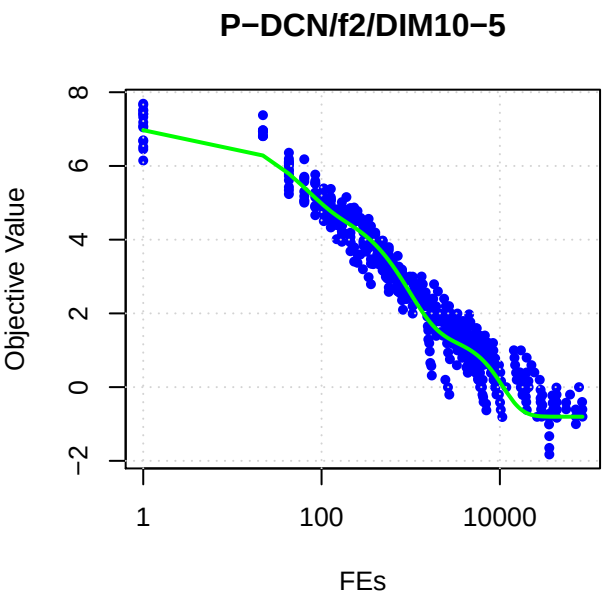
10000
−2
0
2
4
6


P−DCN/f2/DIM10−5
Objective Value
FEs
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100
10000
−2
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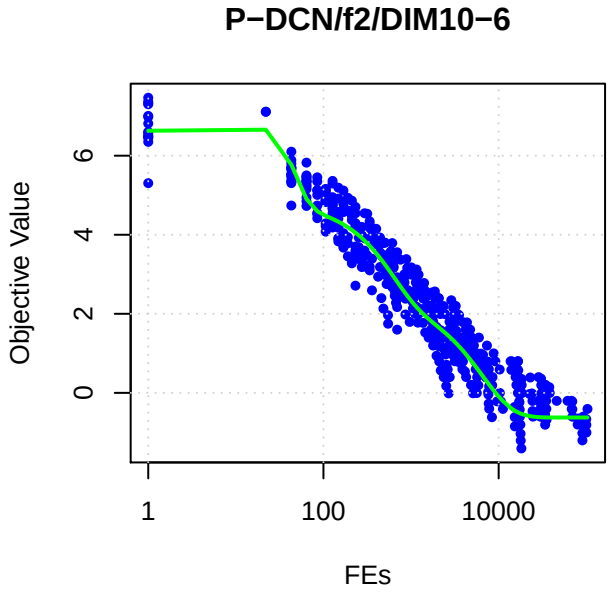
2
4
6
8


P−DCN/f2/DIM10−6
Objective Value
FEs
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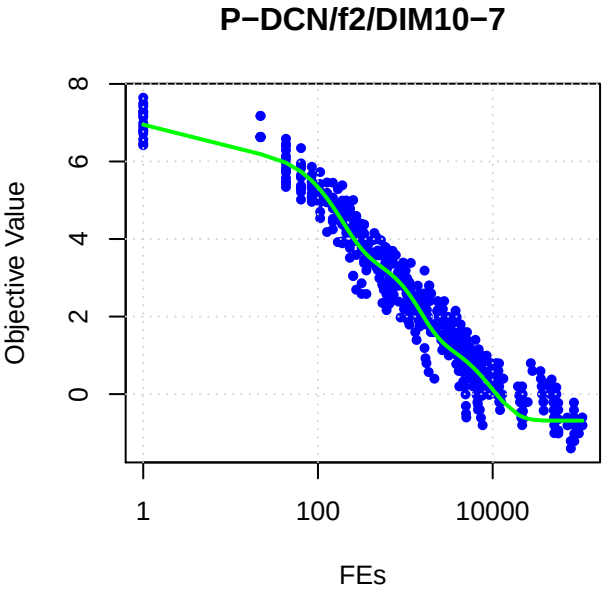
10000
0
2
4
6


P−DCN/f2/DIM10−7
Objective Value
FEs
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10000
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2
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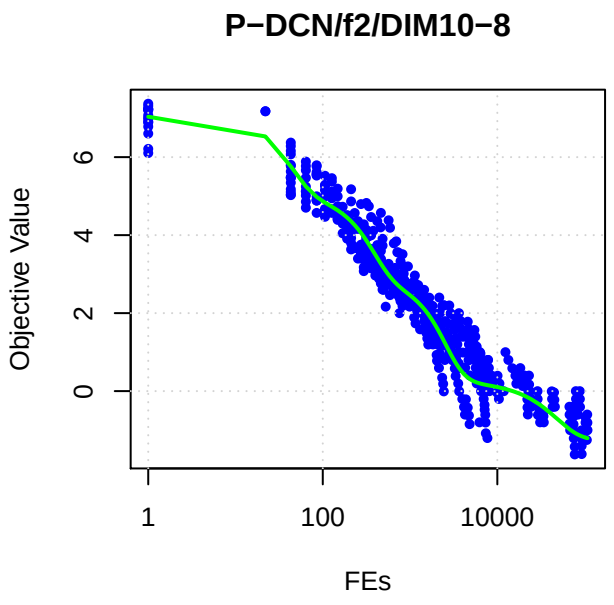
P−DCN/f2/DIM10−8
Objective Value
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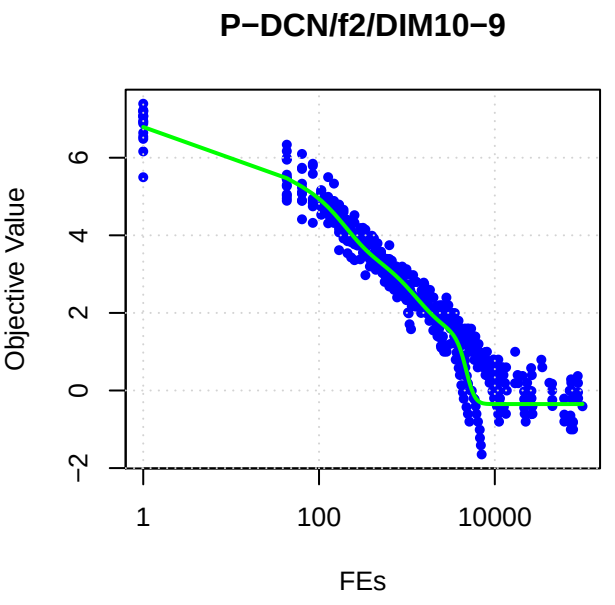
10000
FEs


P−DCN/f2/DIM10−9
Objective Value
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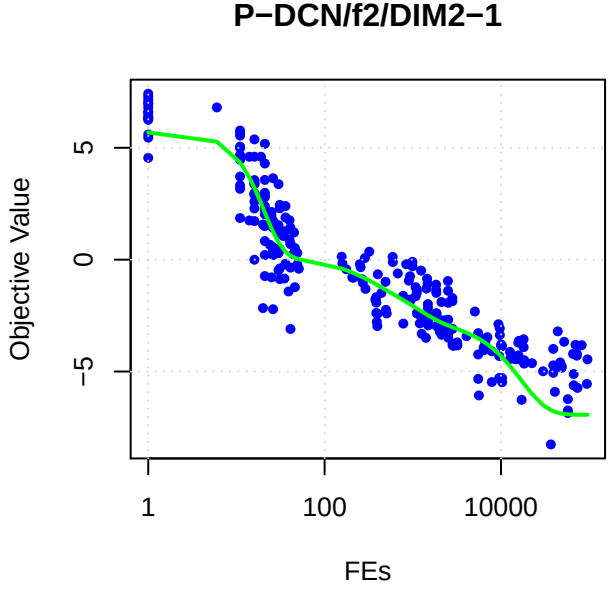
FEs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Objective Value
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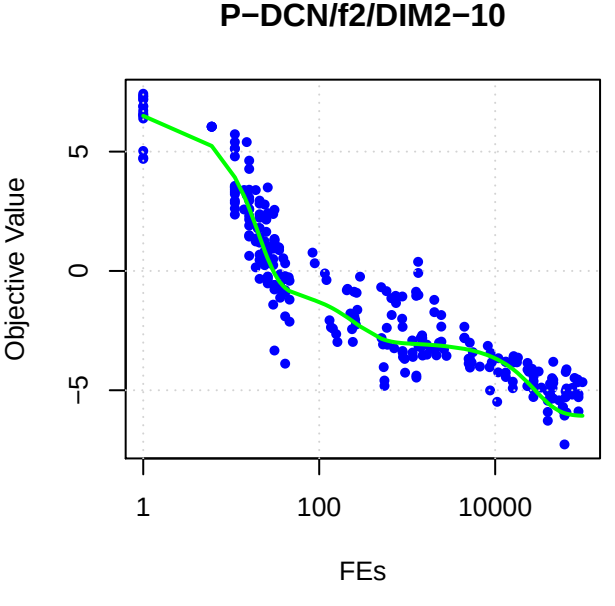
FEs


P−DCN/f2/DIM2−10
Objective Value
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100
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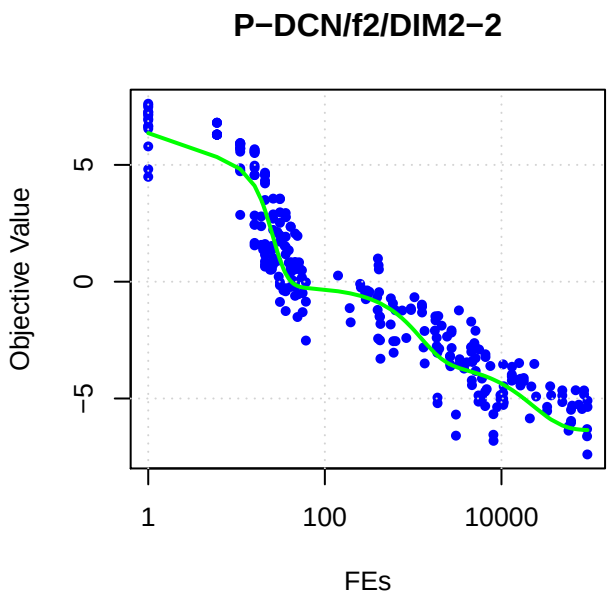
FEs


P−DCN/f2/DIM2−2
Objective Value
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−5
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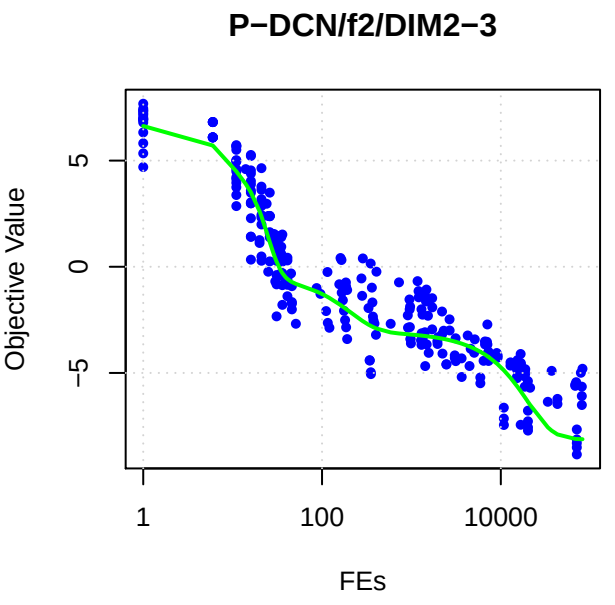
100
10000
FEs


P−DCN/f2/DIM2−3
Objective Value
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−5
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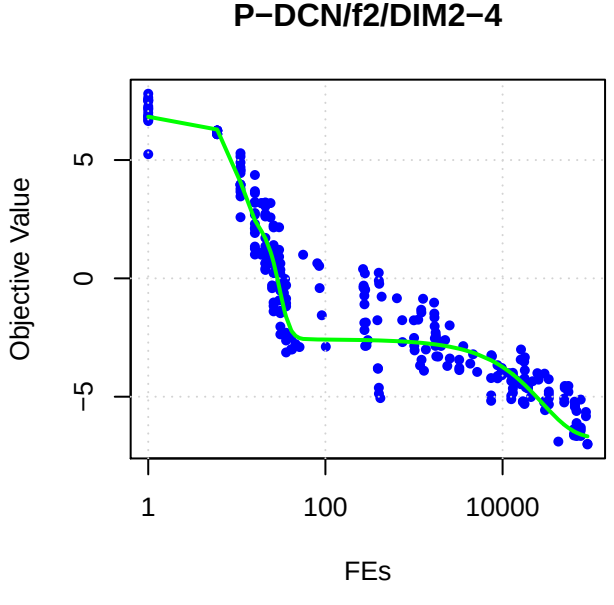
10000
FEs


P−DCN/f2/DIM2−4
Objective Value
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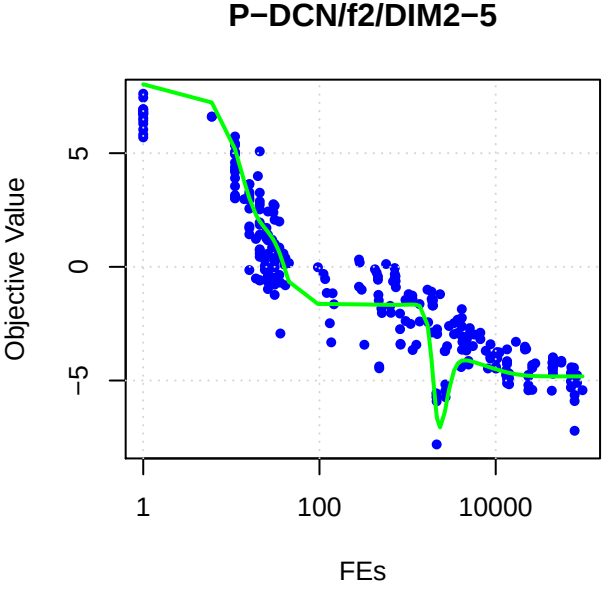
−5
1
100
10000
FEs


P−DCN/f2/DIM2−5
Objective Value
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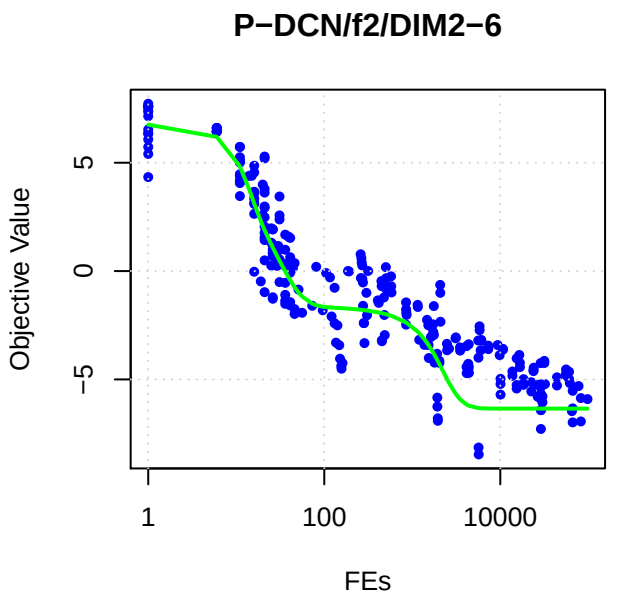
−5
1
100
10000
FEs


P−DCN/f2/DIM2−6
Objective Value
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0
−5
1
100
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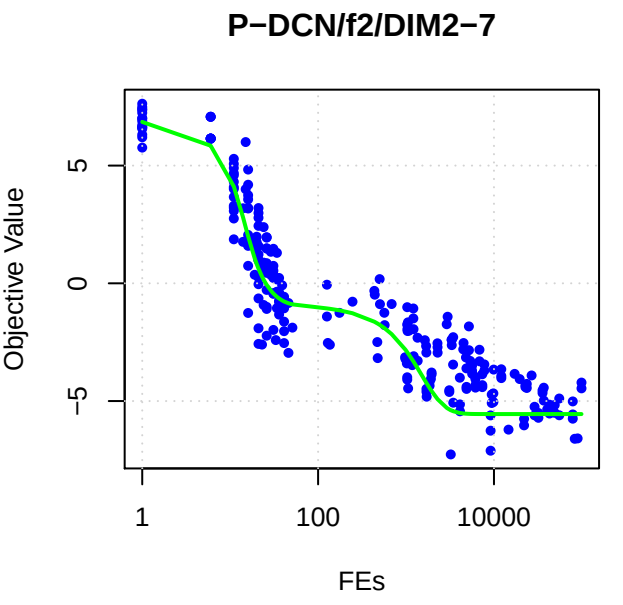
FEs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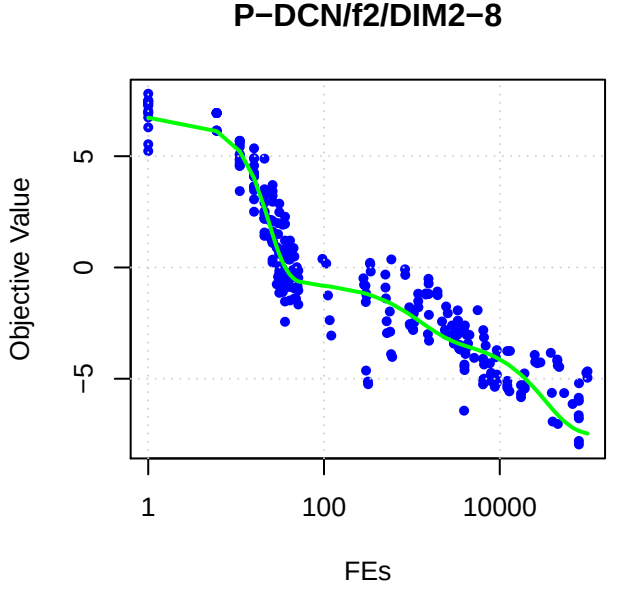
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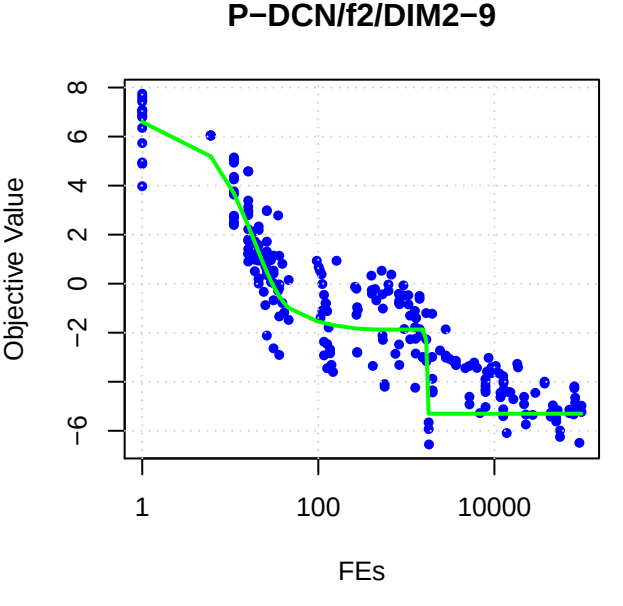
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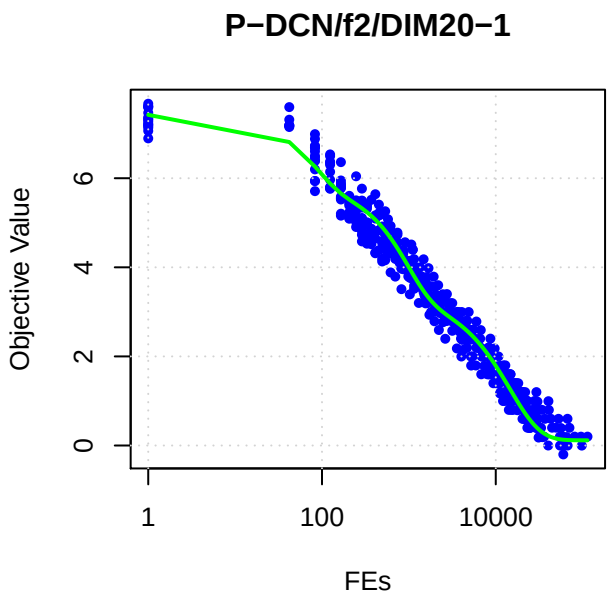
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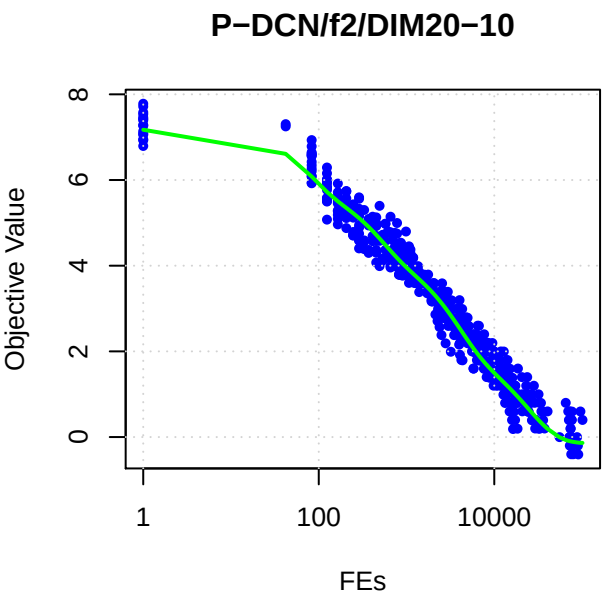
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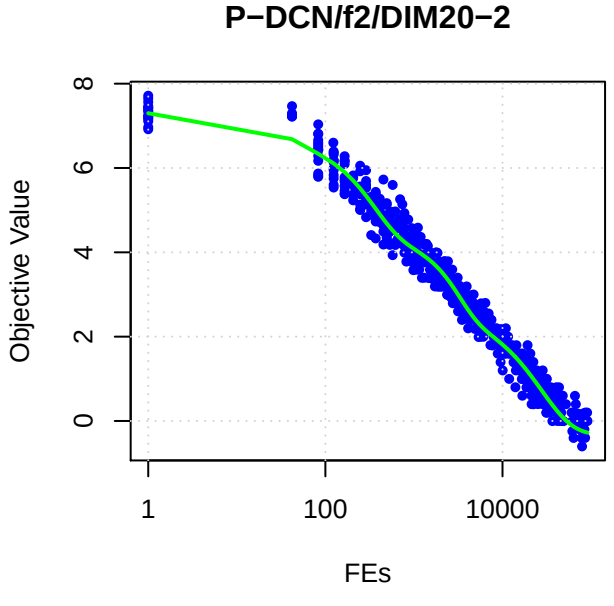
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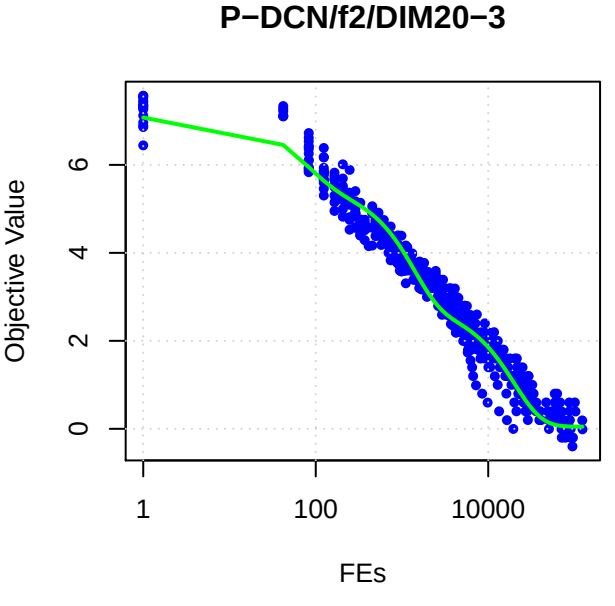
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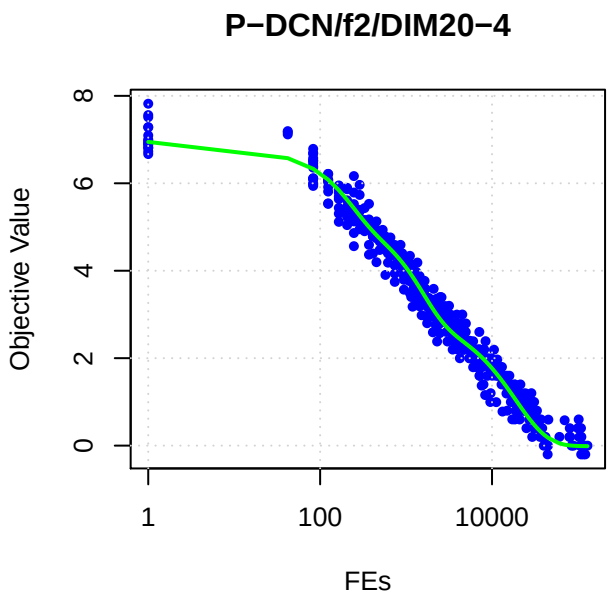
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Objective Value
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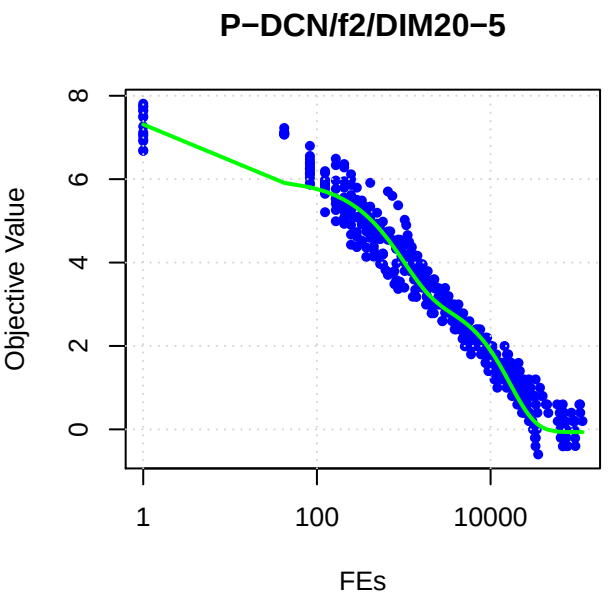
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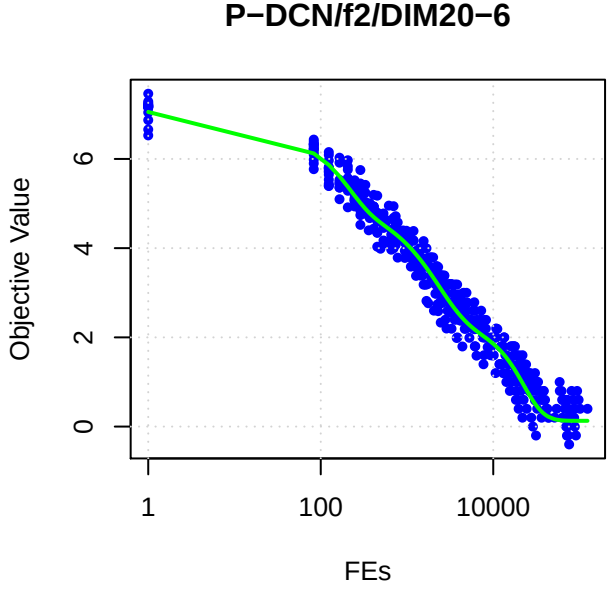
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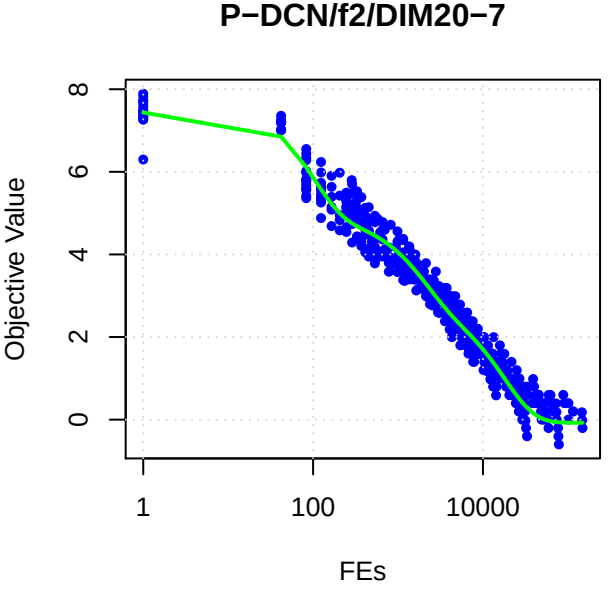
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Objective Value
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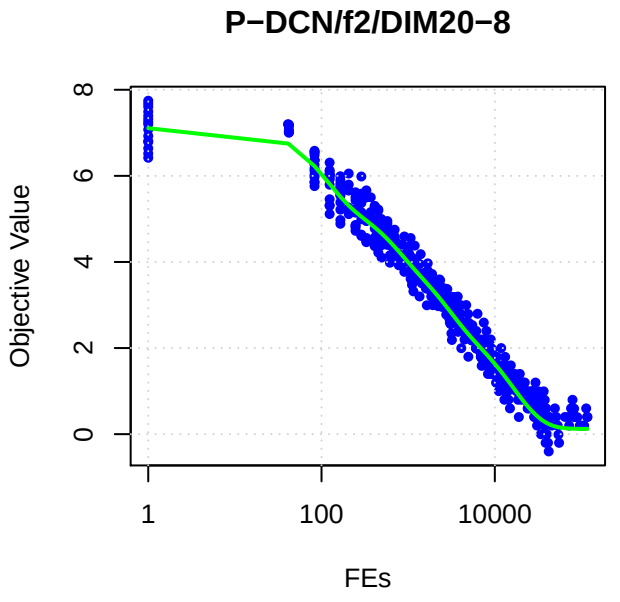
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Objective Value
FEs
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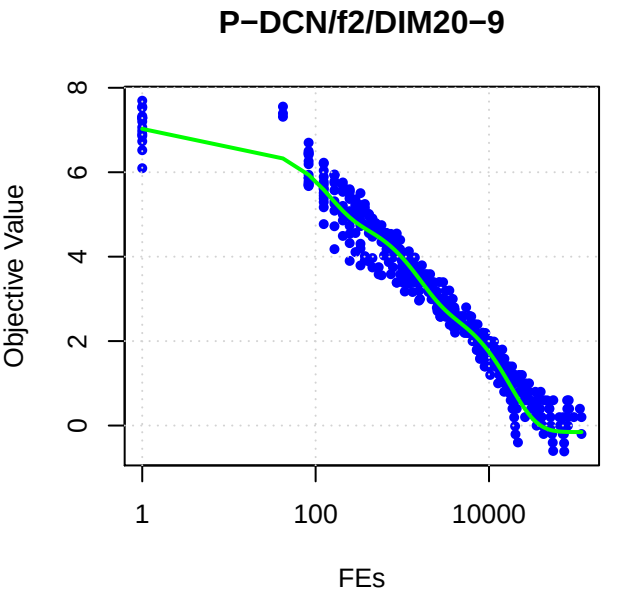
8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Objective Value
FEs
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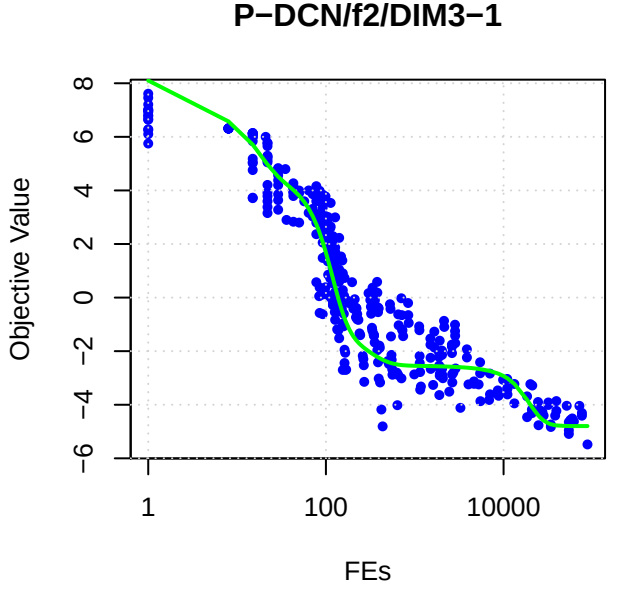
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Objective Value
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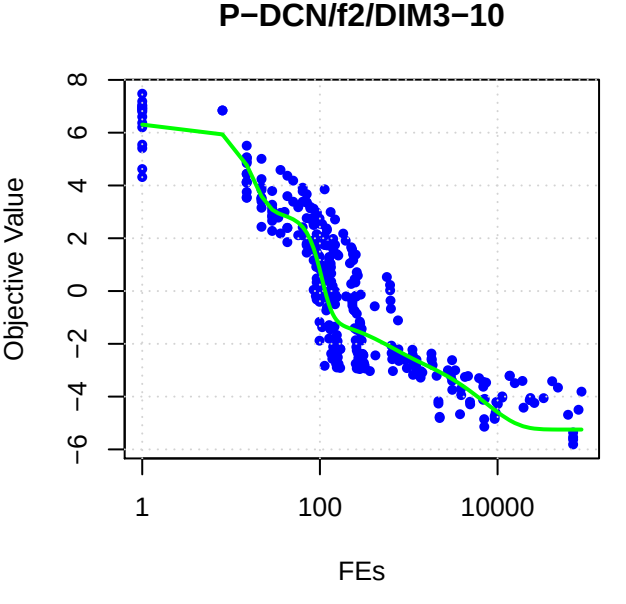
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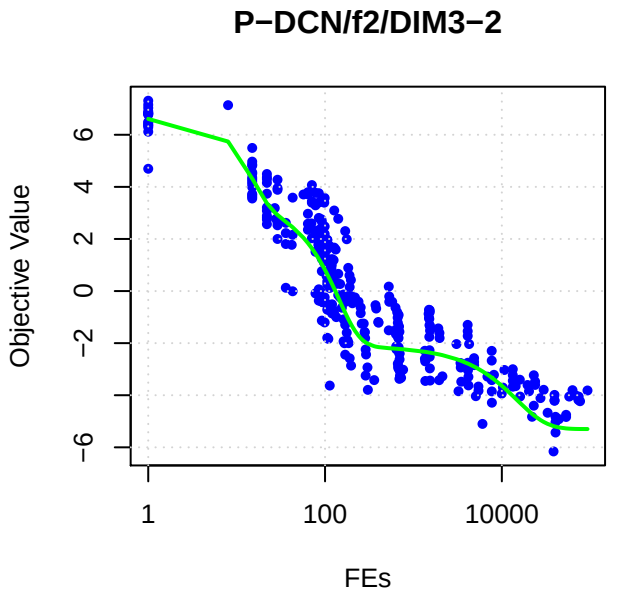
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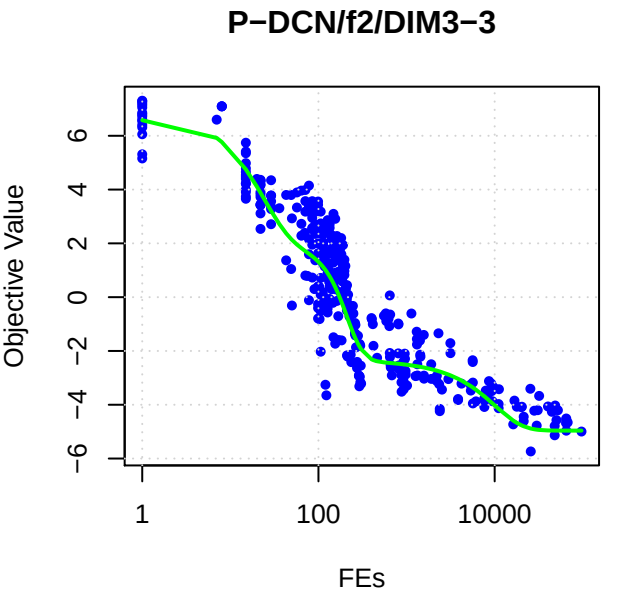
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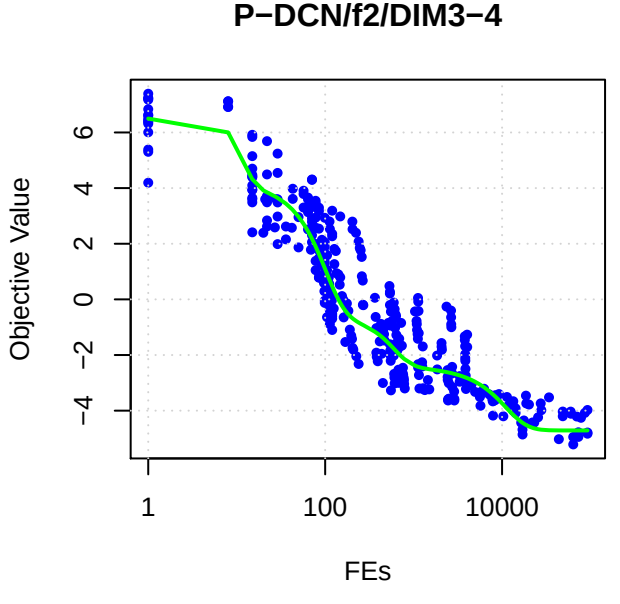
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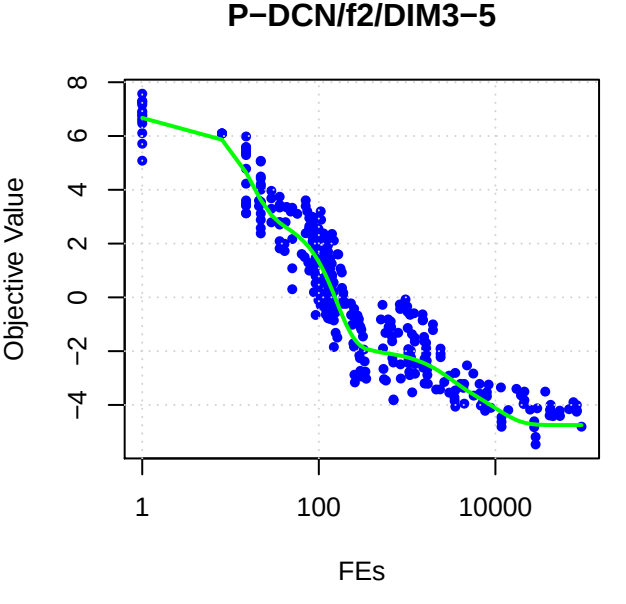
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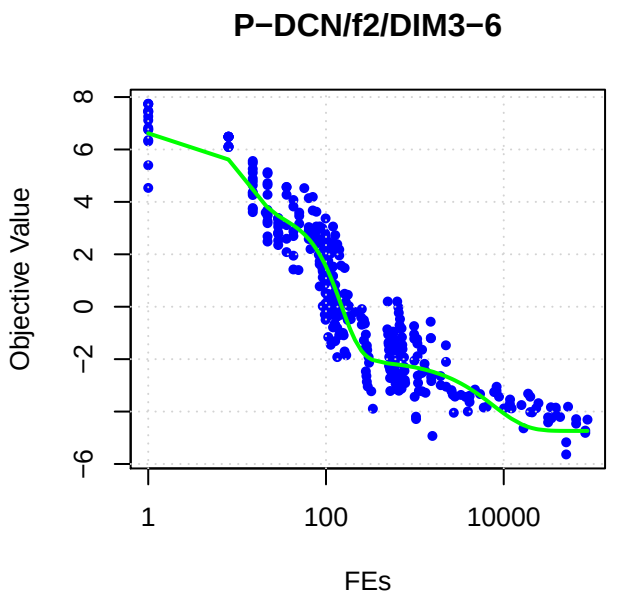
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Objective Value
FEs
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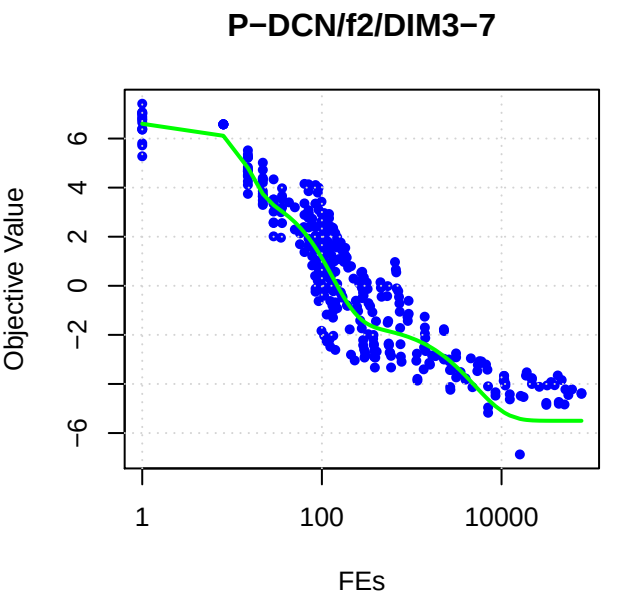
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Objective Value
FEs
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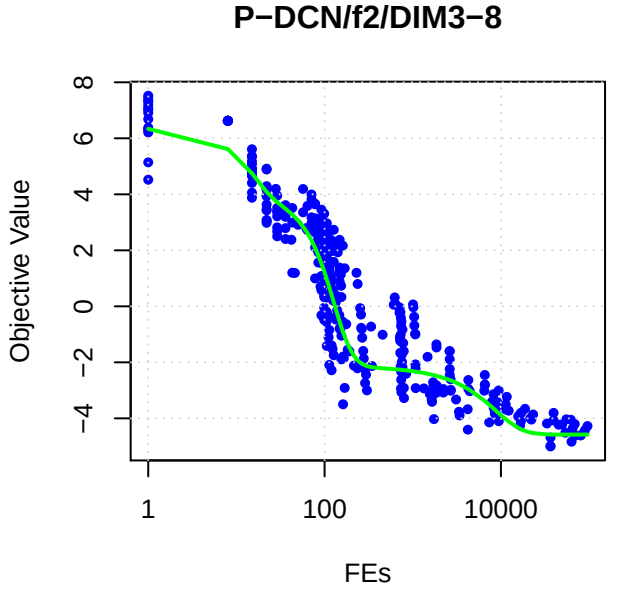
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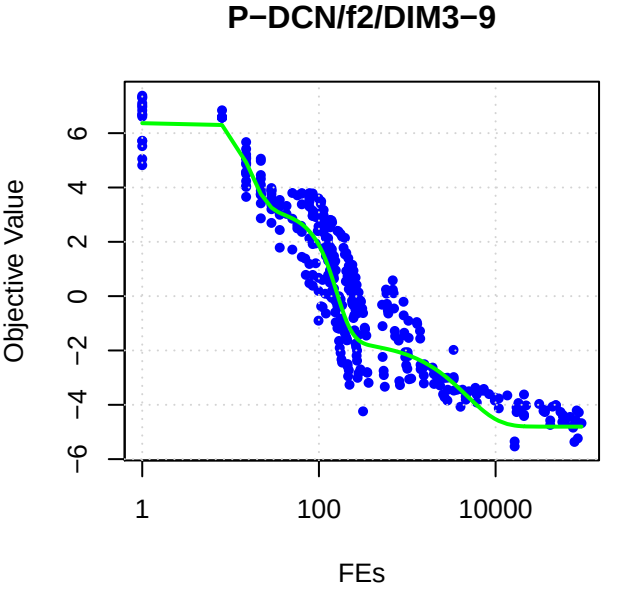
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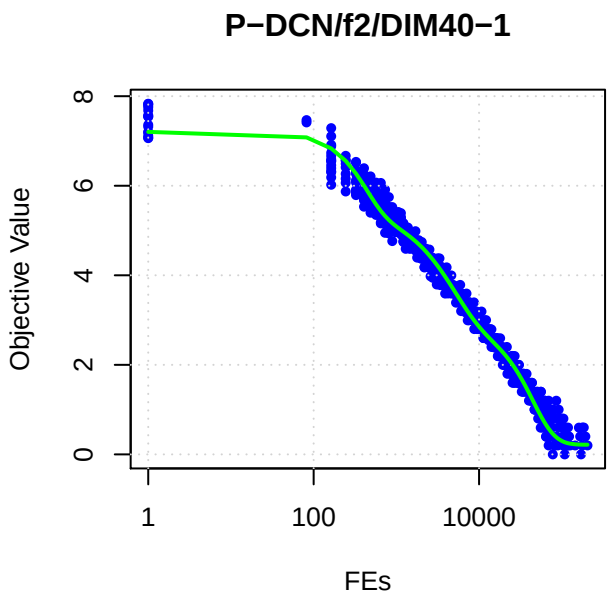
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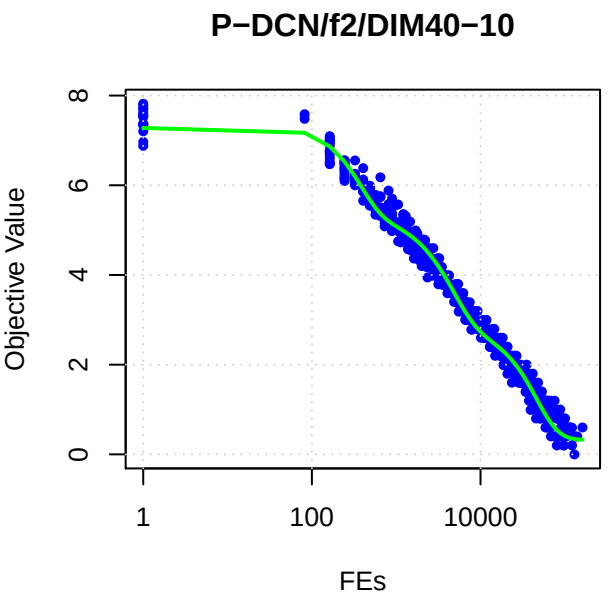
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Objective Value
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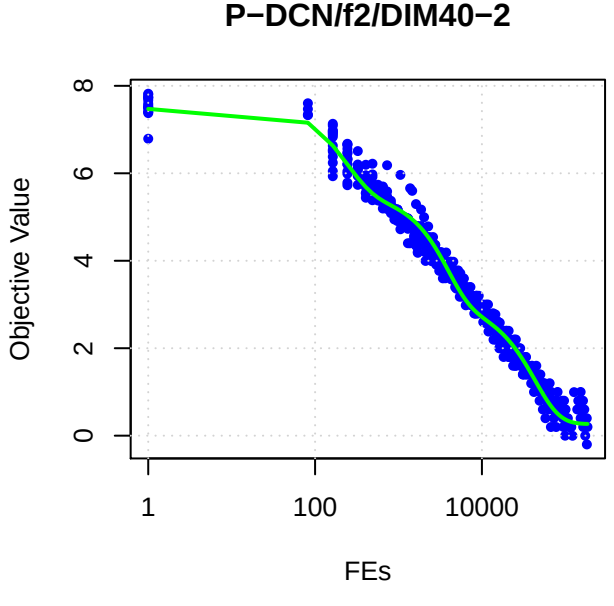
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Objective Value
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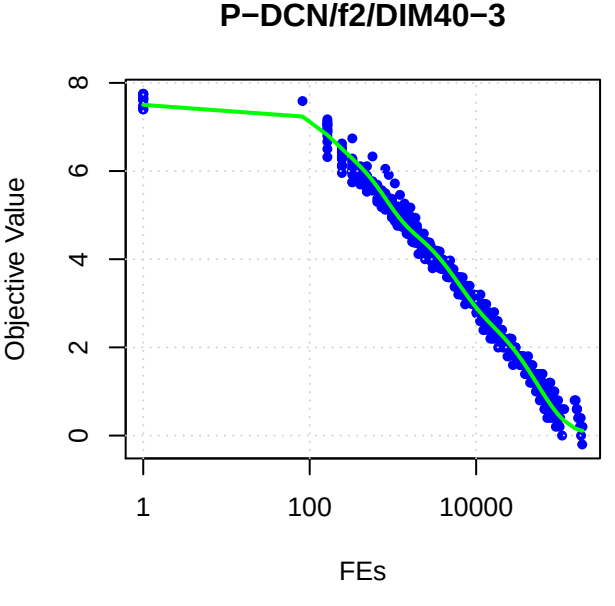
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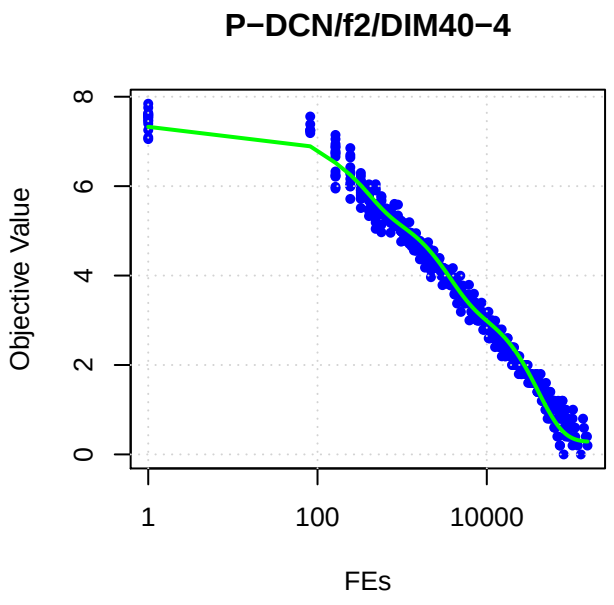
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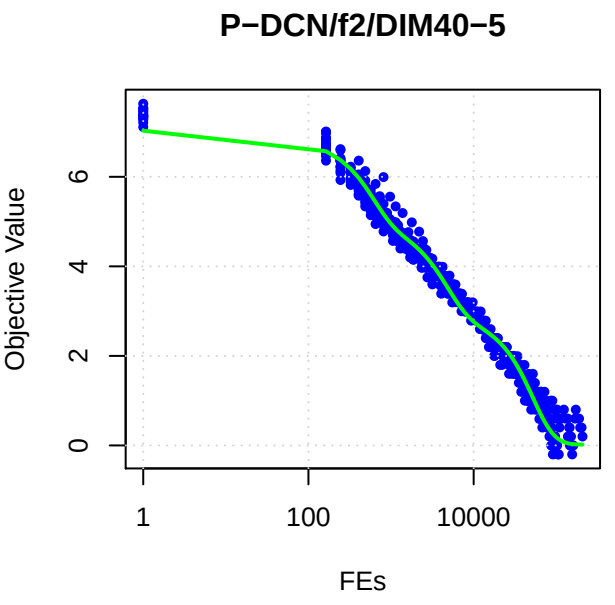
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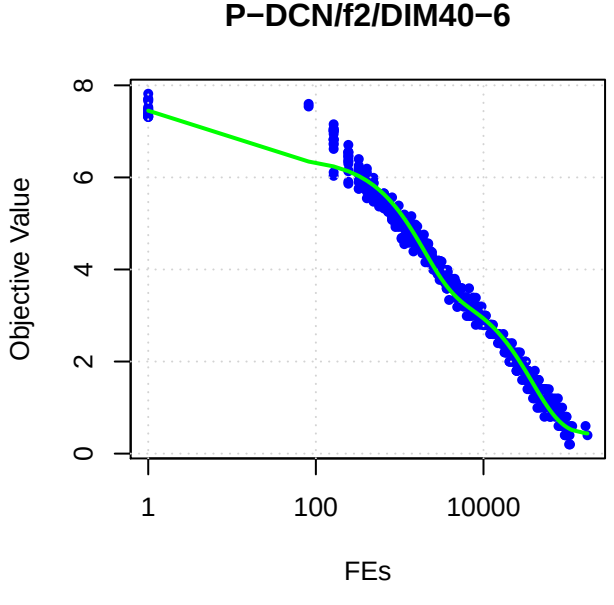
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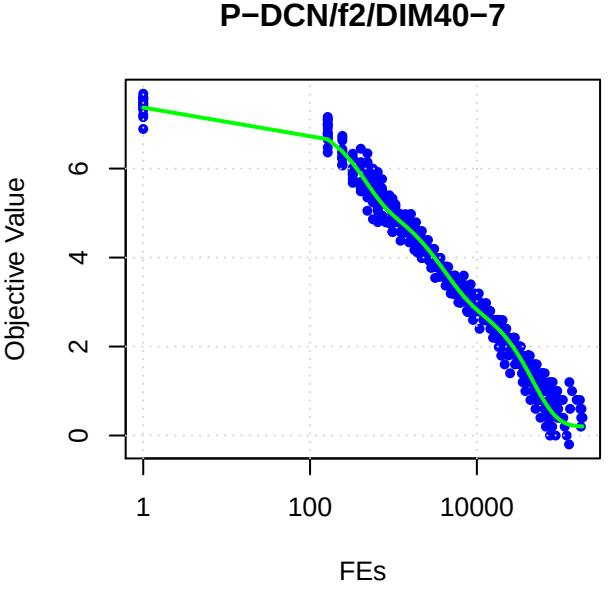
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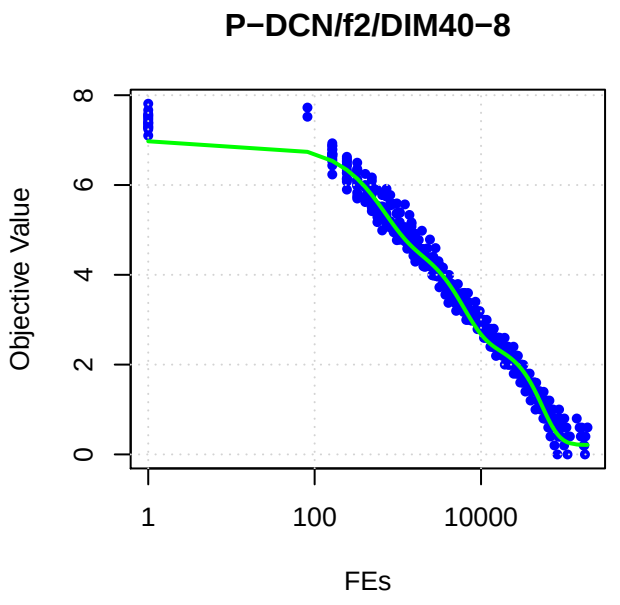
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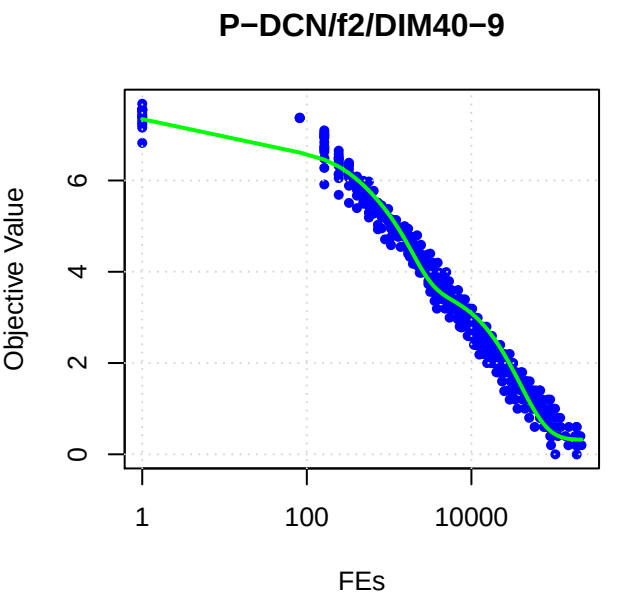
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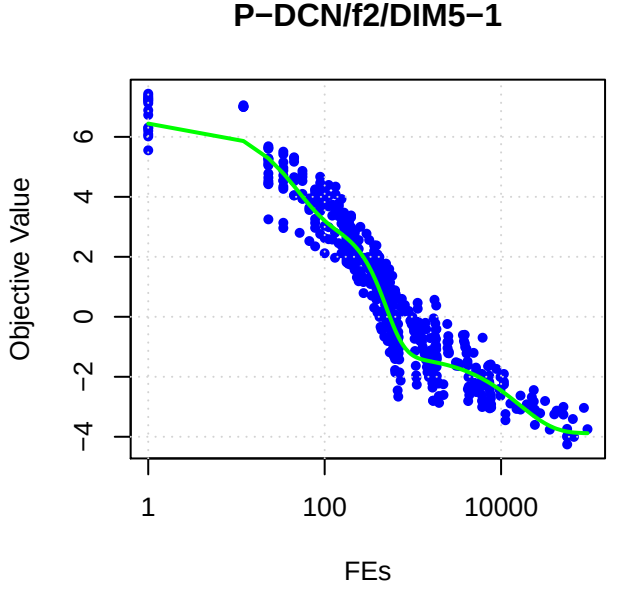
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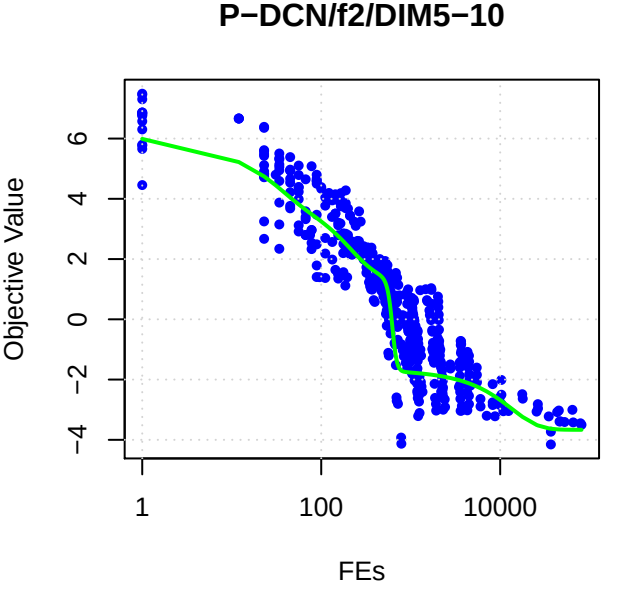
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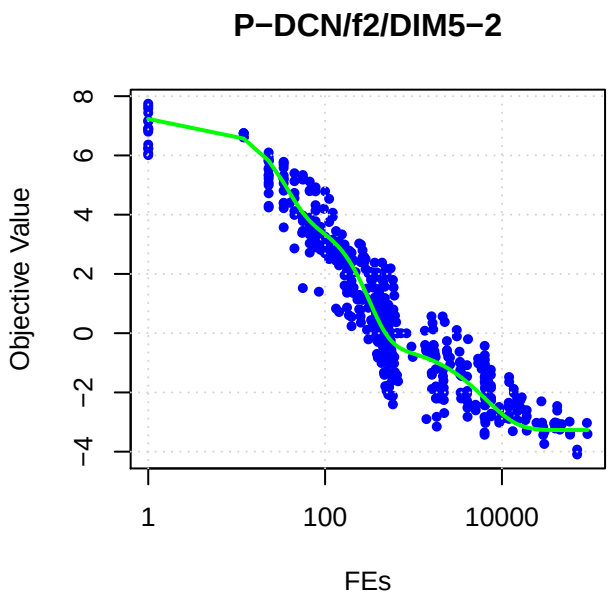
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Objective Value
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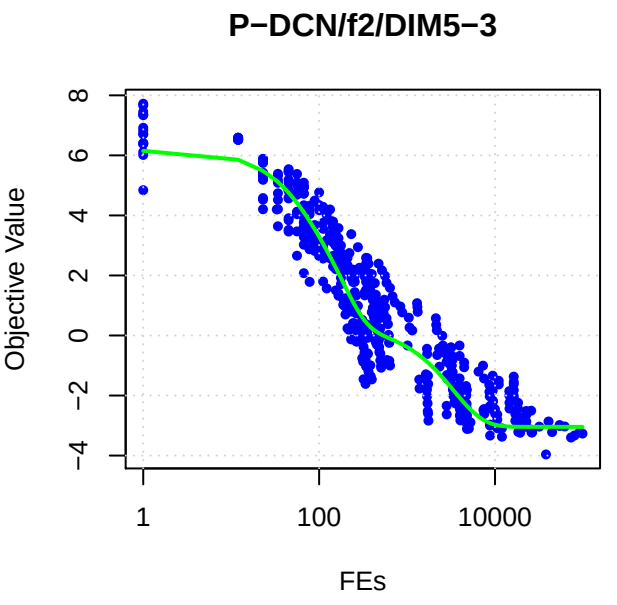
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FEs
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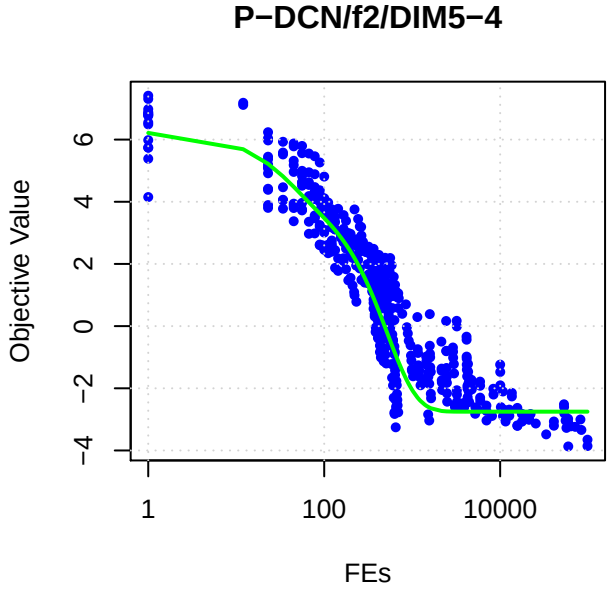
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Objective Value
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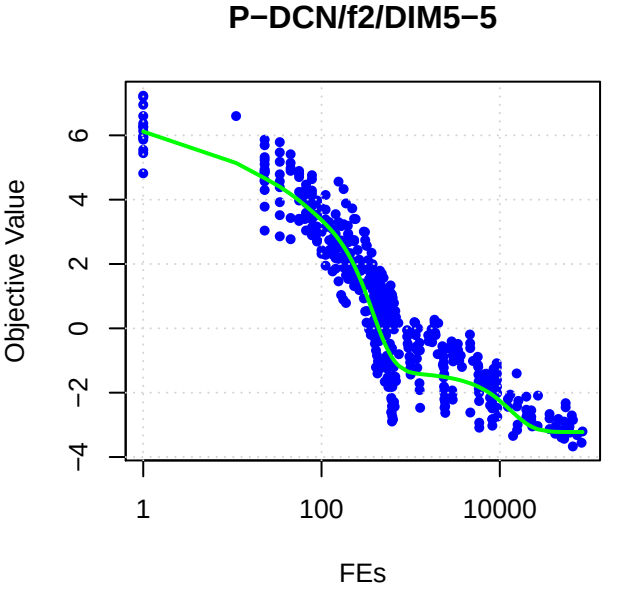
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Objective Value
FEs
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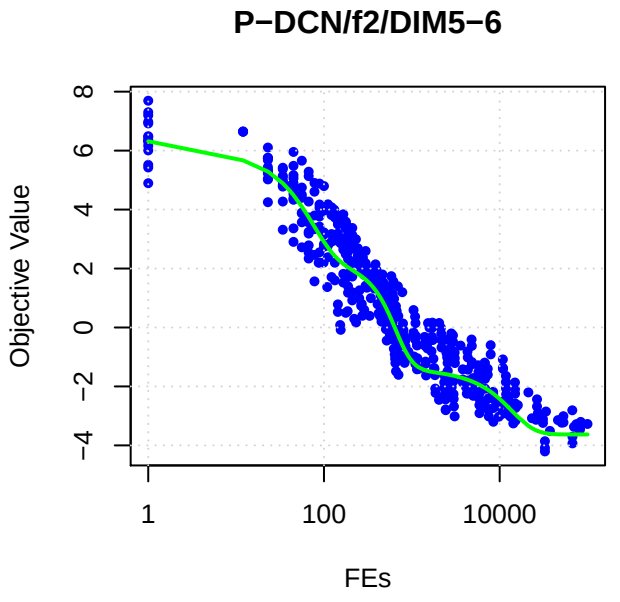
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FEs
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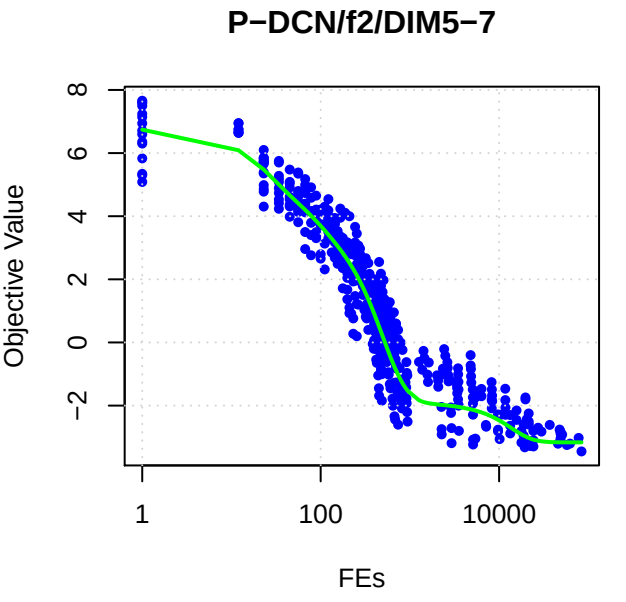
P−DCN/f2/DIM5−7
Objective Value
FEs
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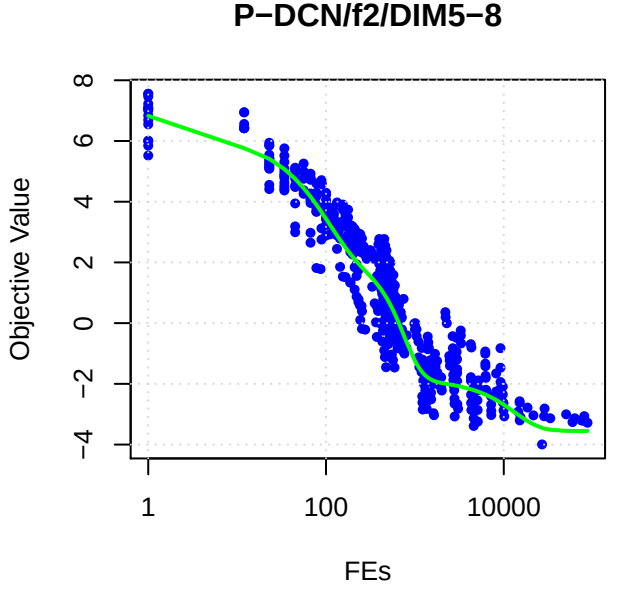
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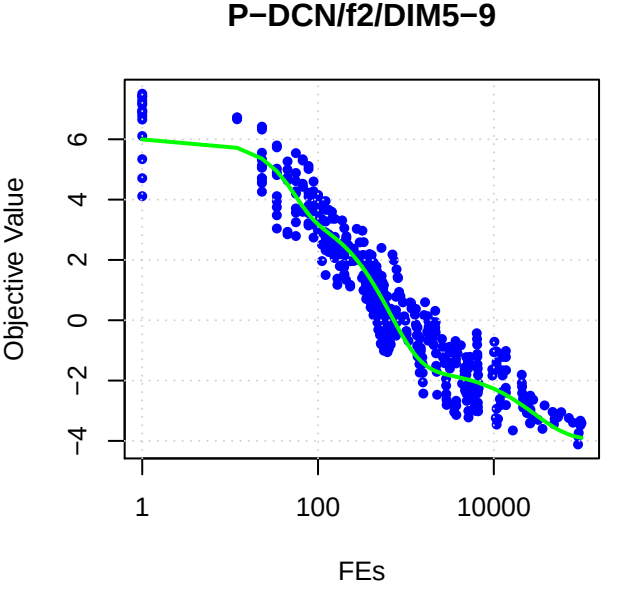
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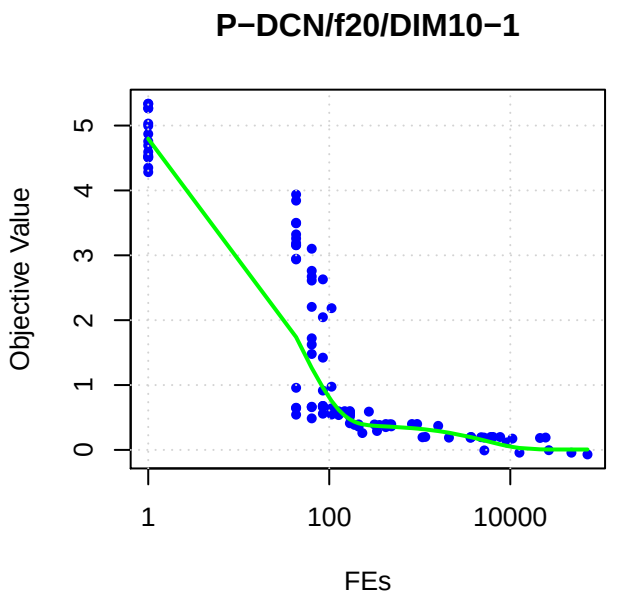
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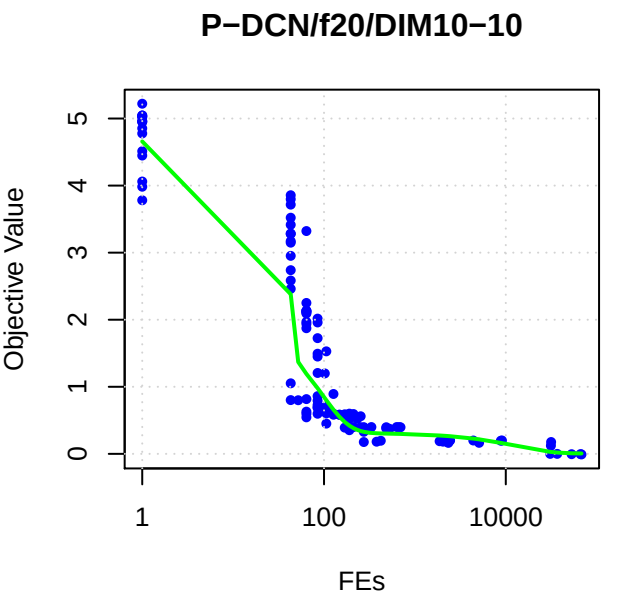
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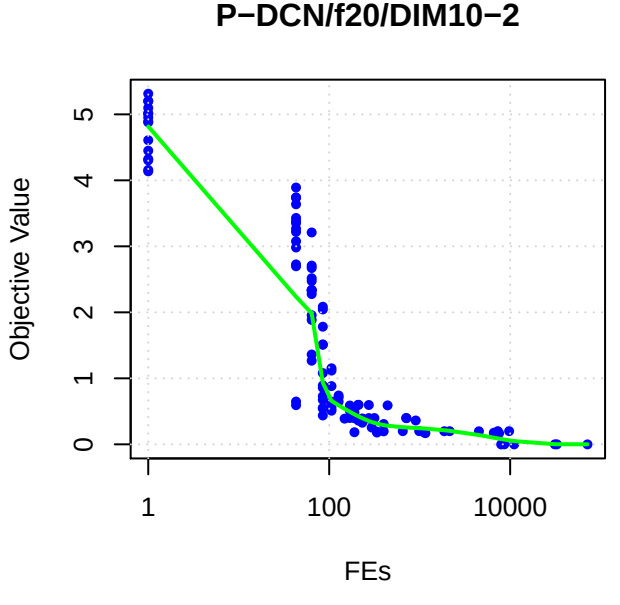
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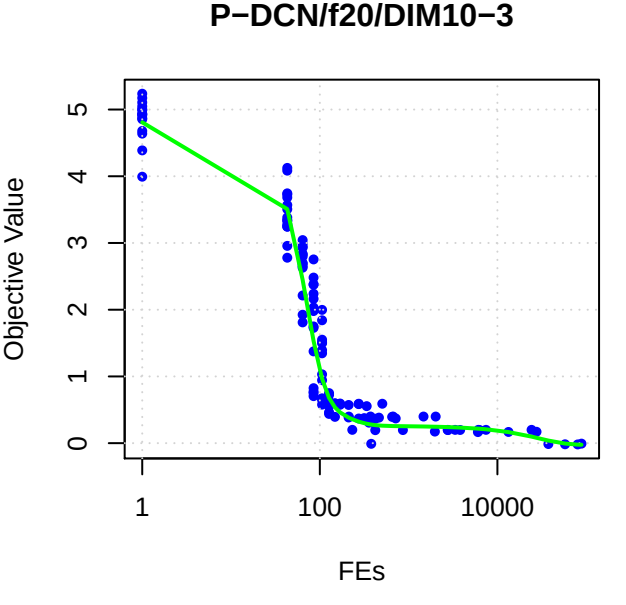
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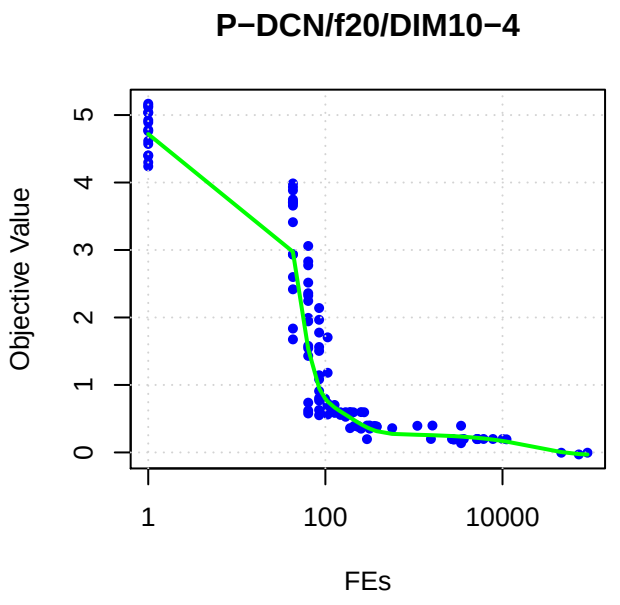
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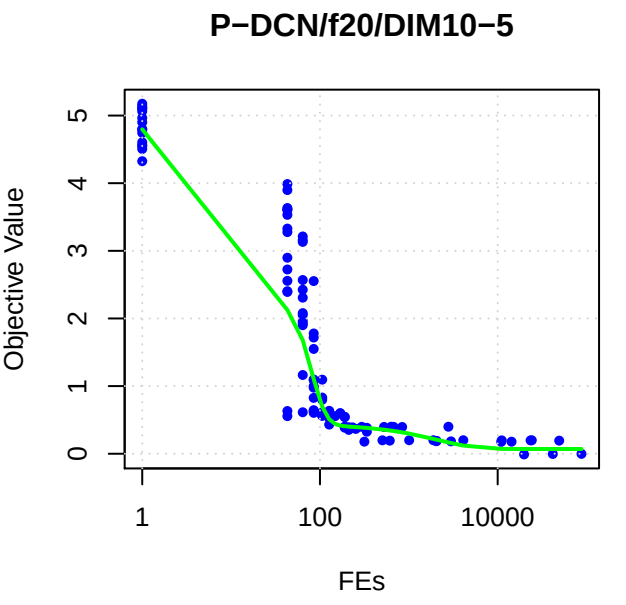
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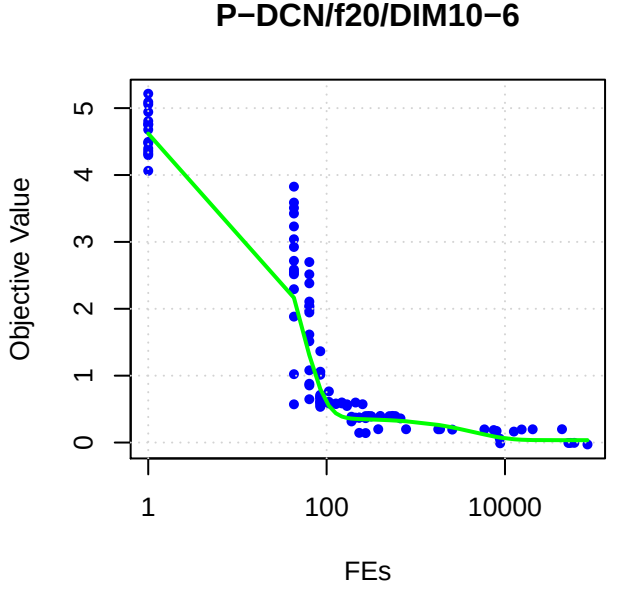
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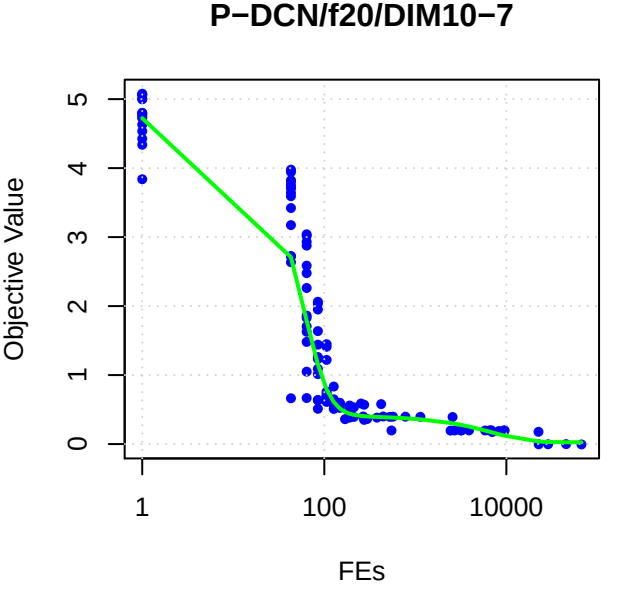
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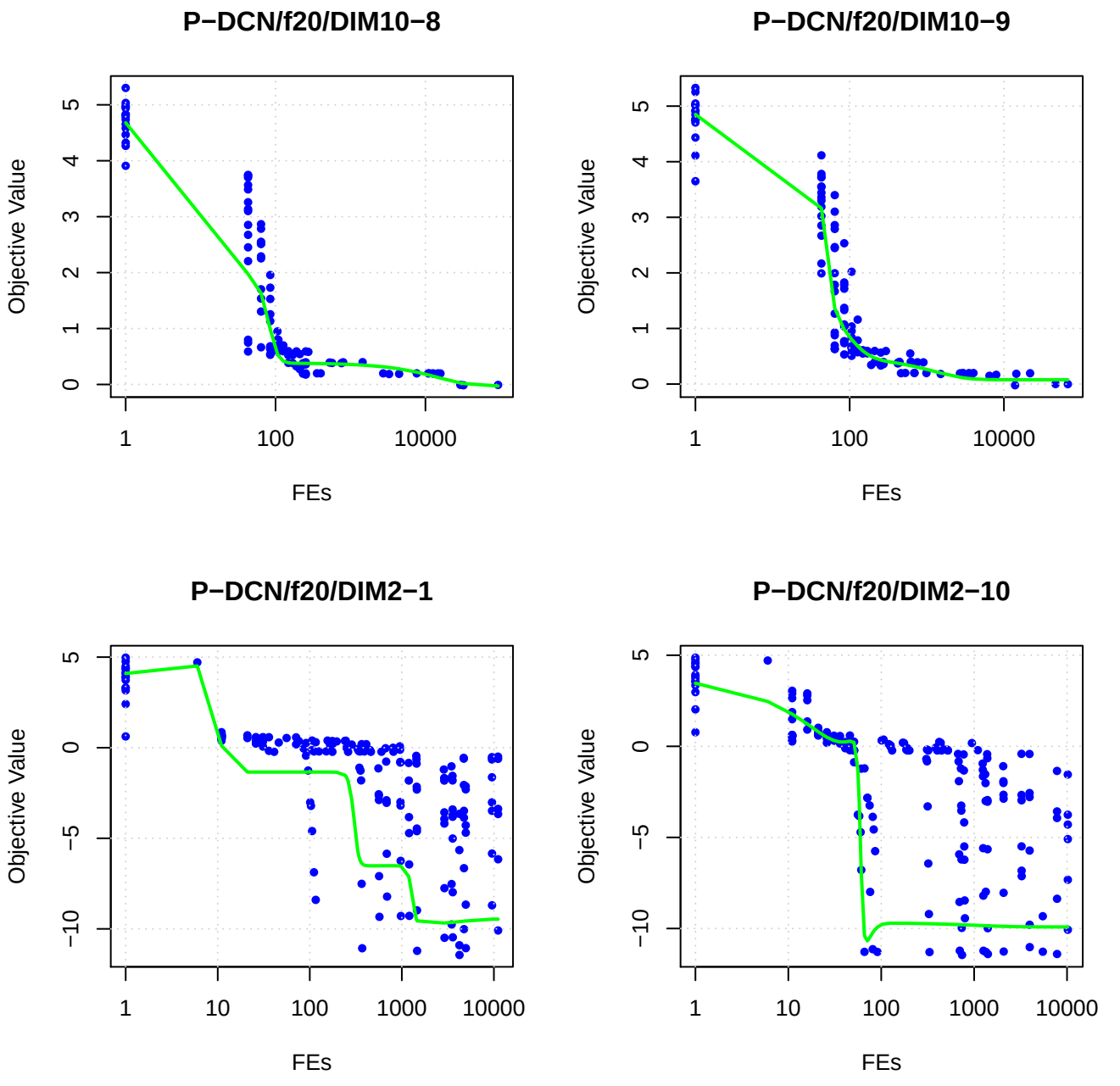
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P−DCN/f20/DIM2−10
Objective Value
FEs
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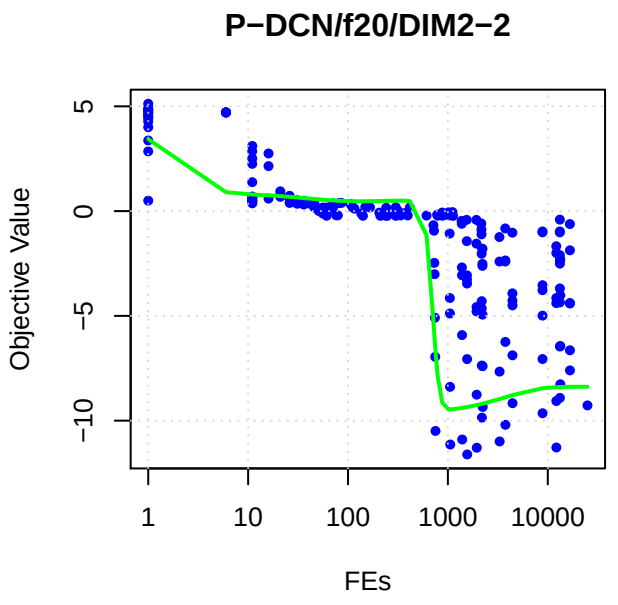
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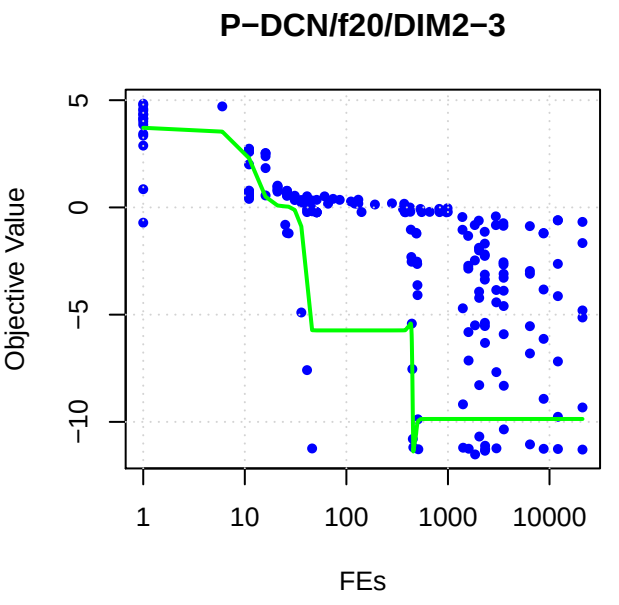
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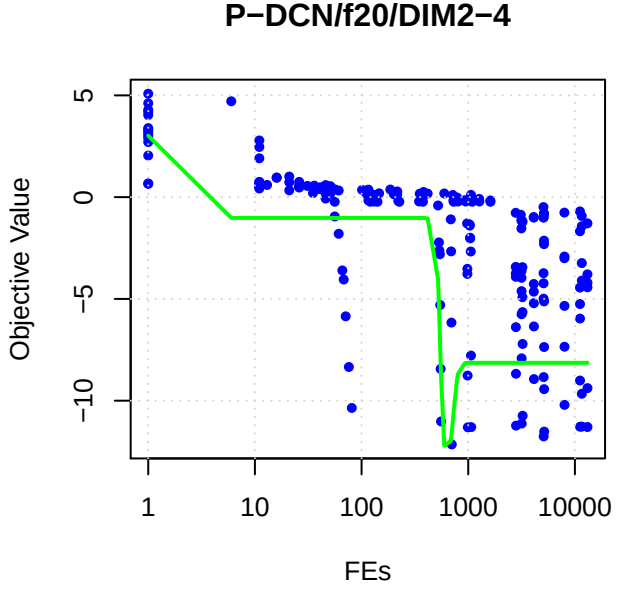
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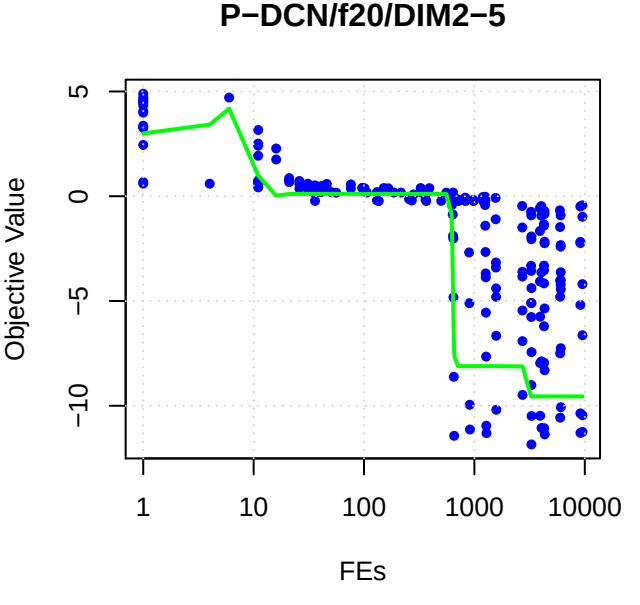
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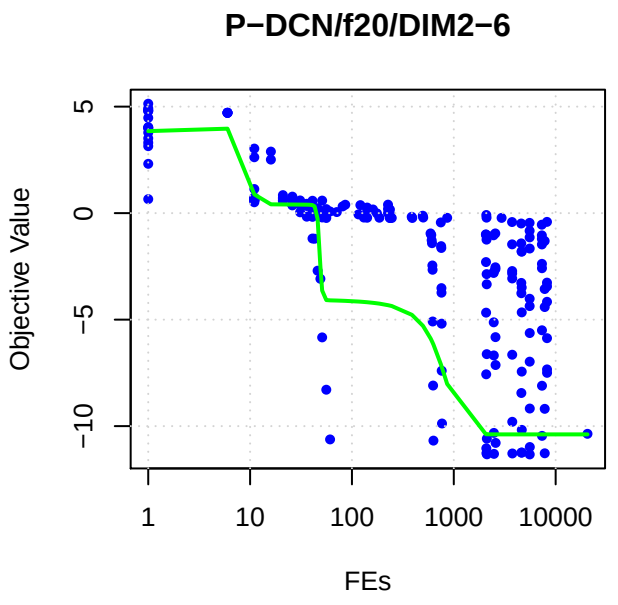
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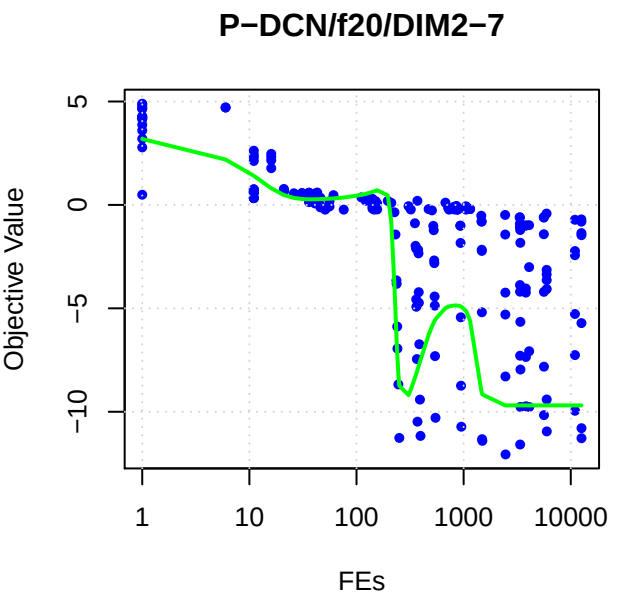
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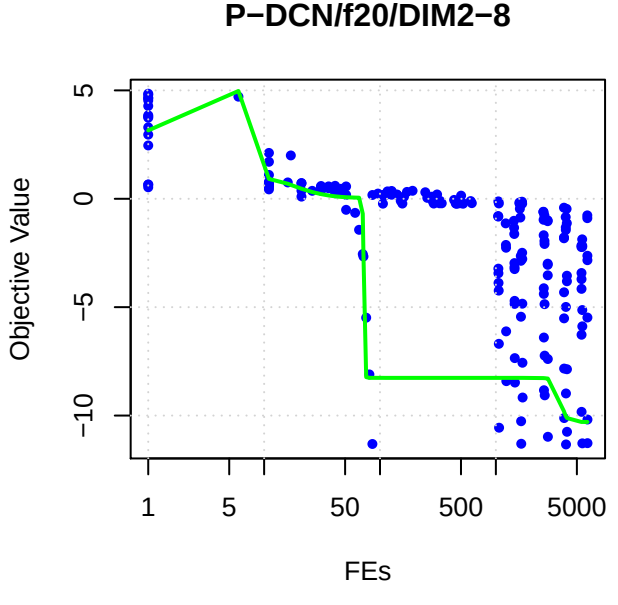
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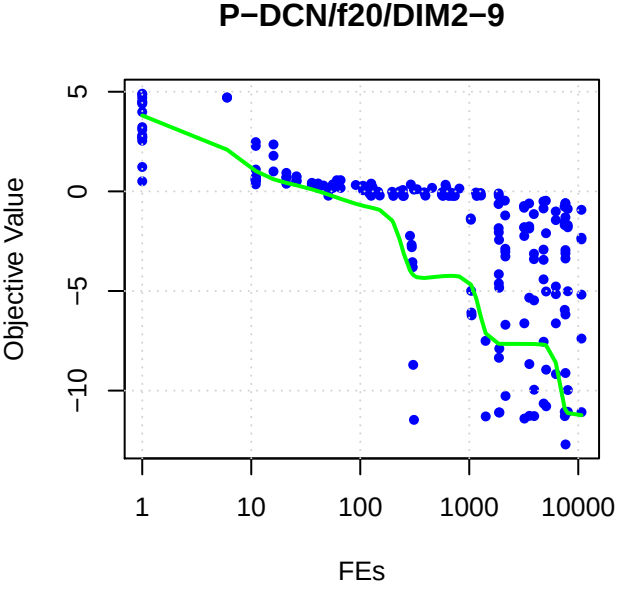
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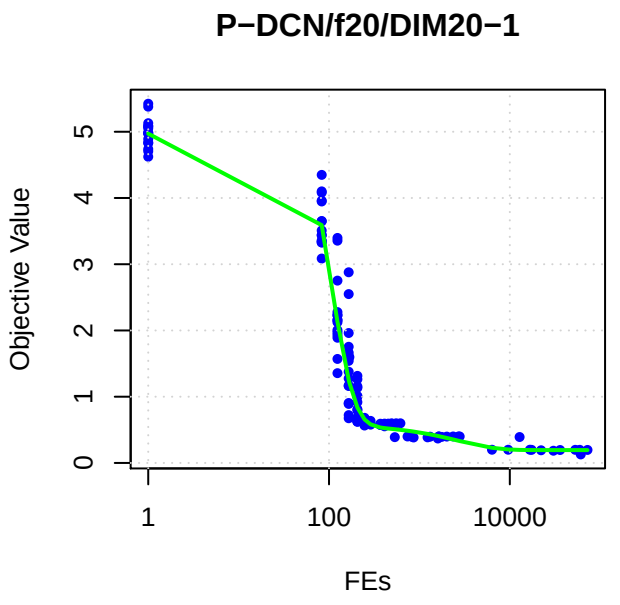
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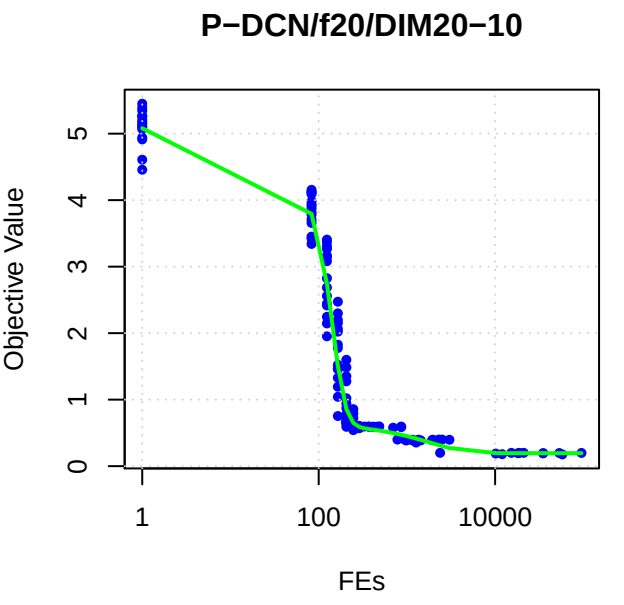
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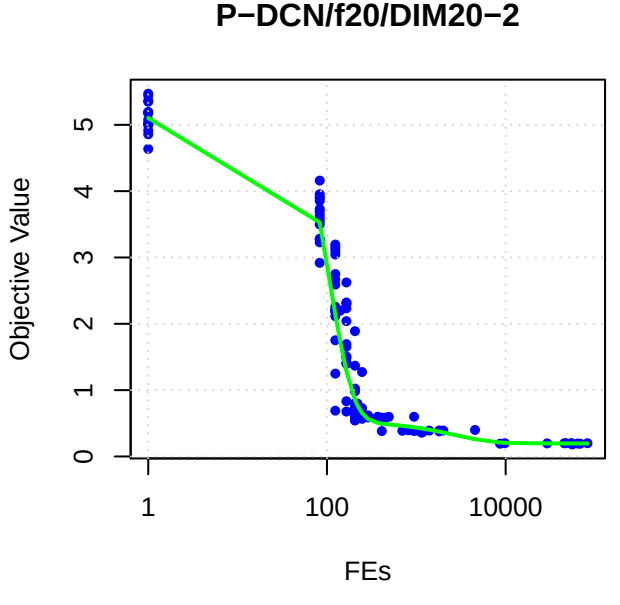
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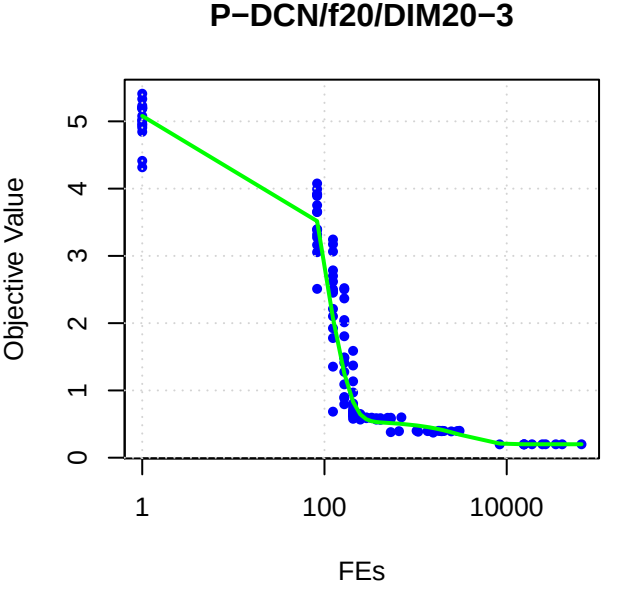
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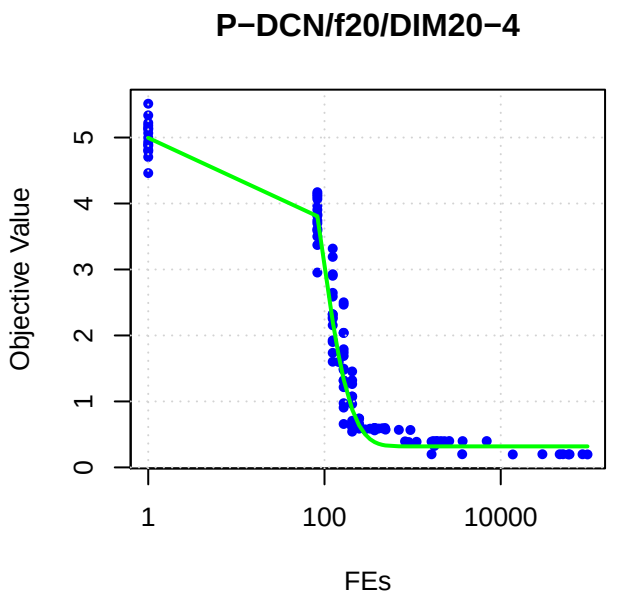
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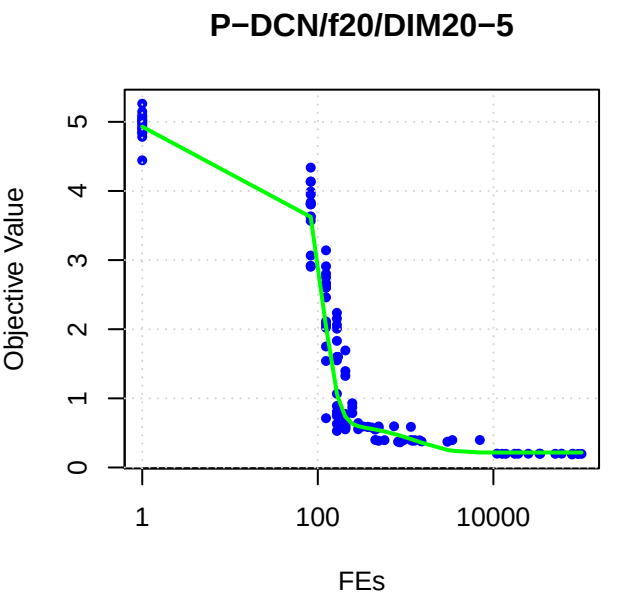
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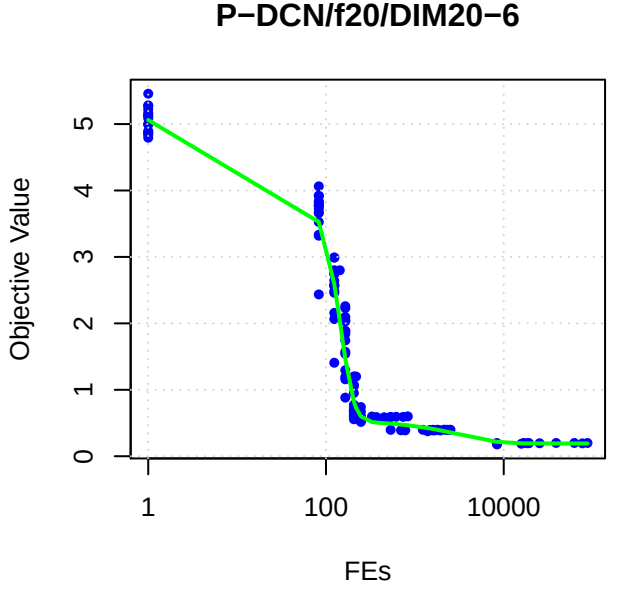
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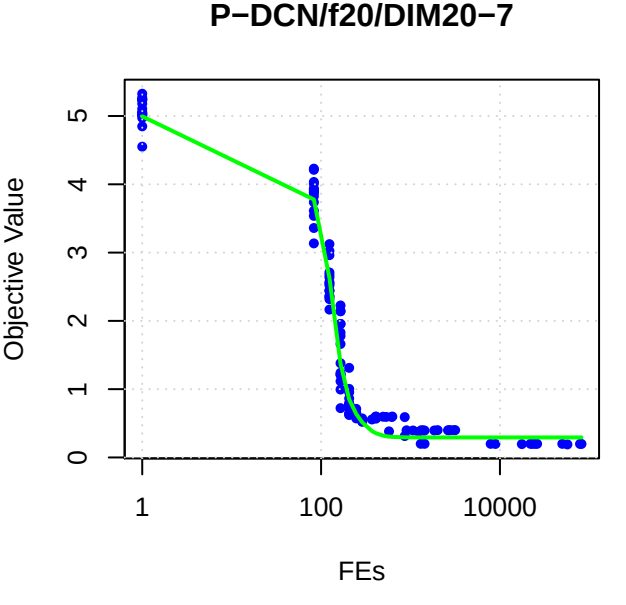
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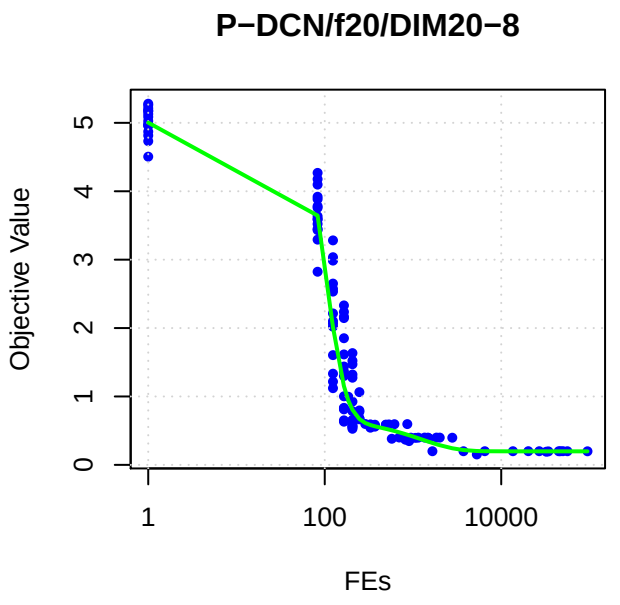
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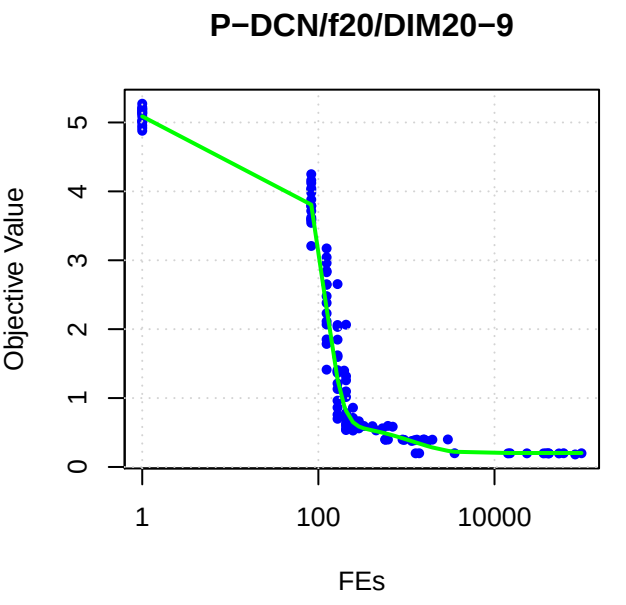
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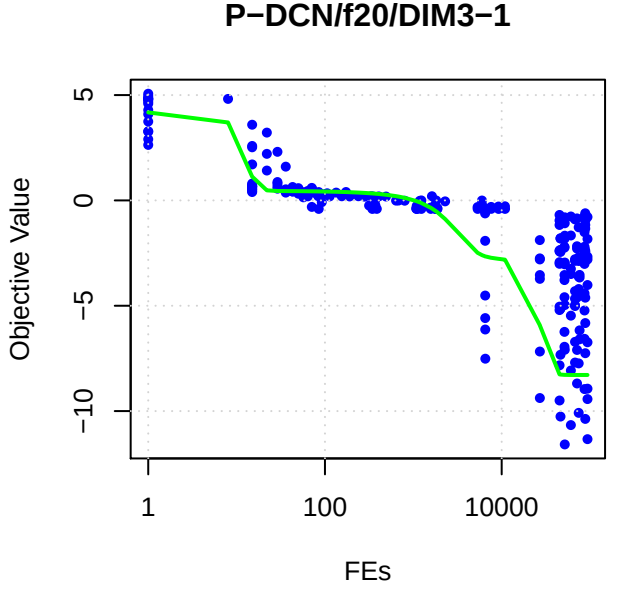
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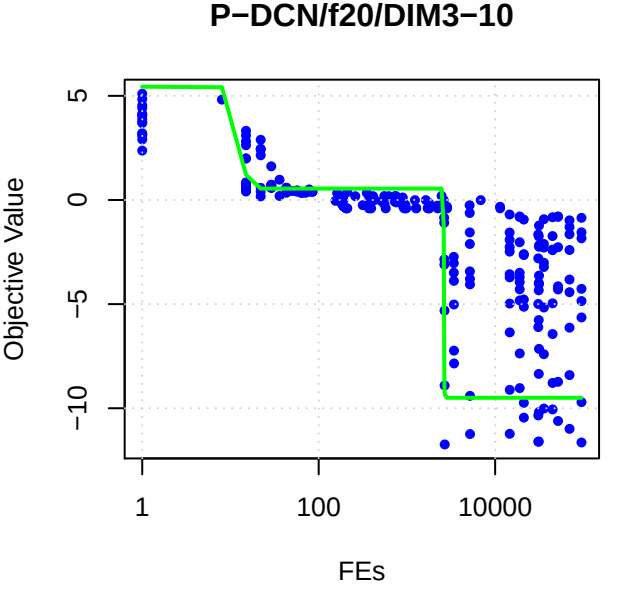
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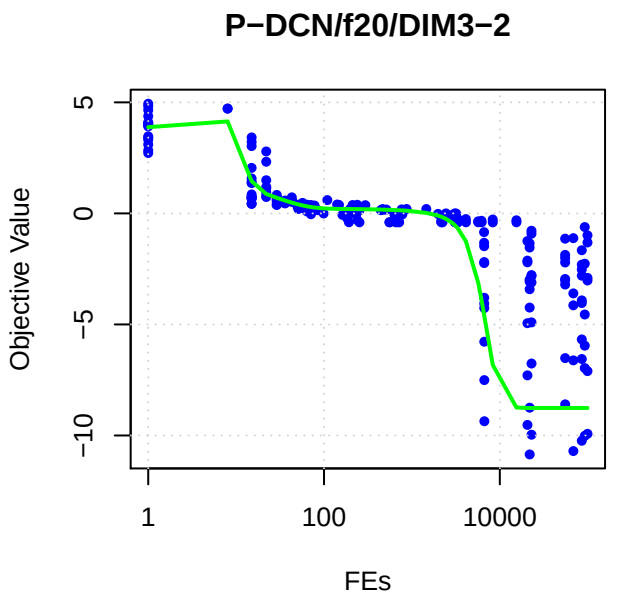
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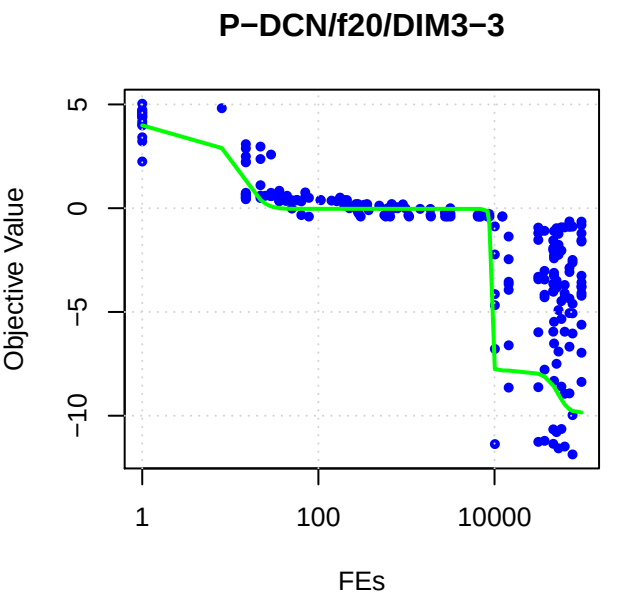
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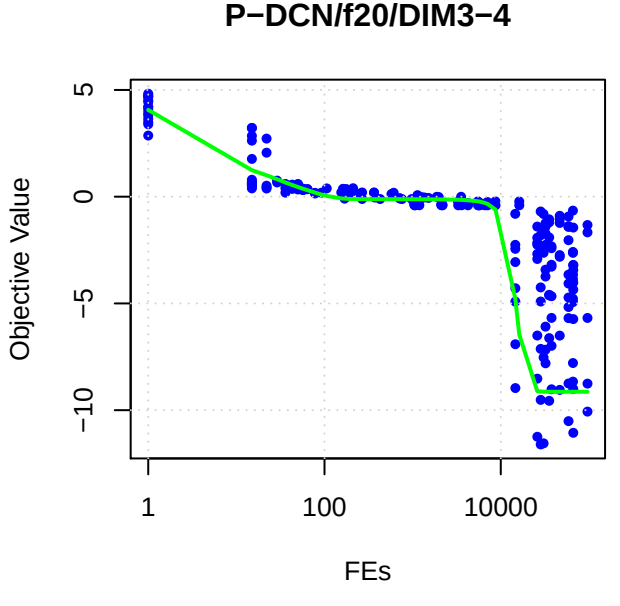
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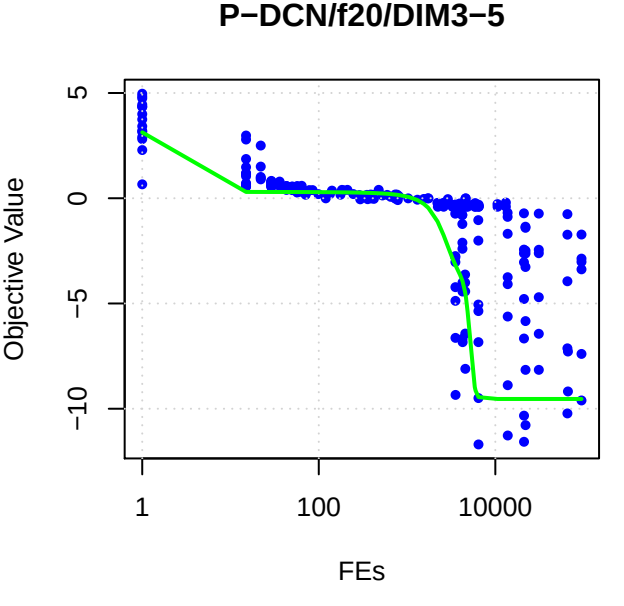
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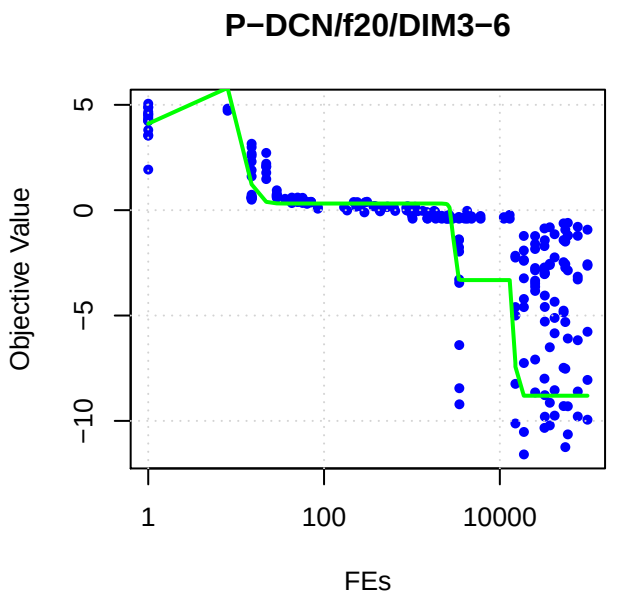
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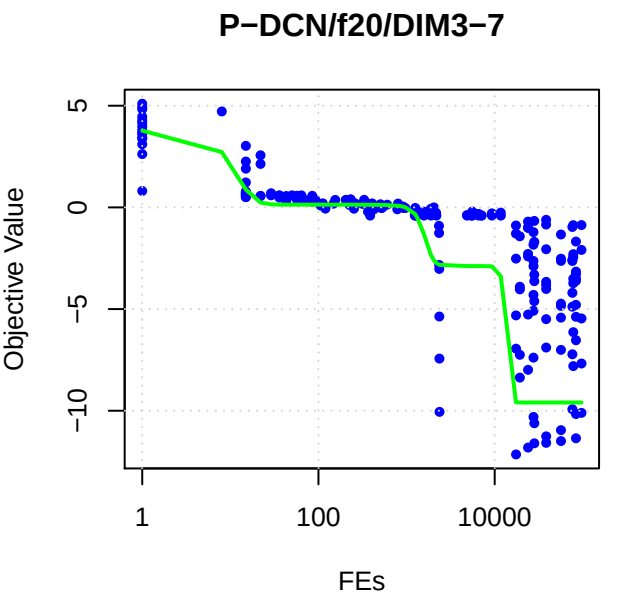
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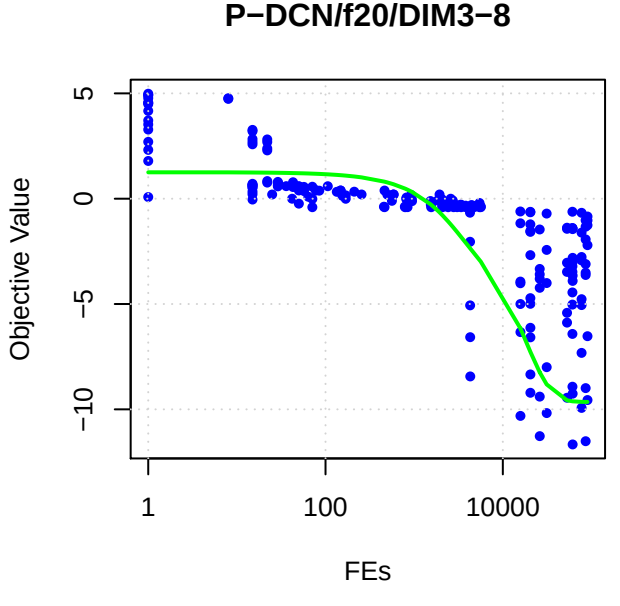
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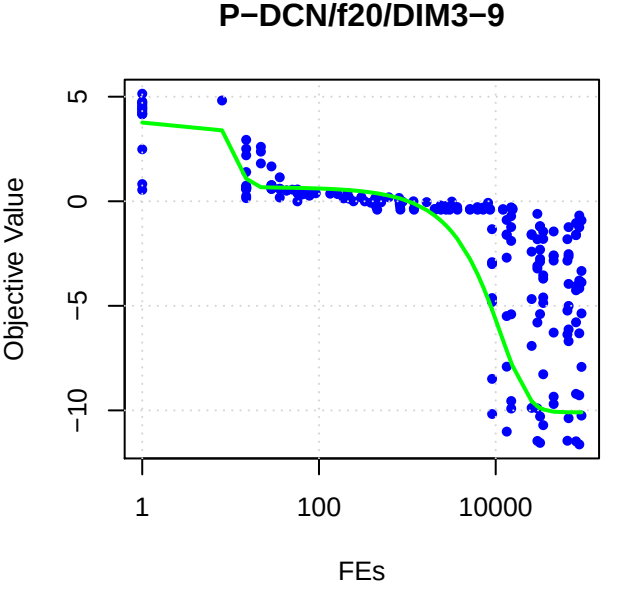
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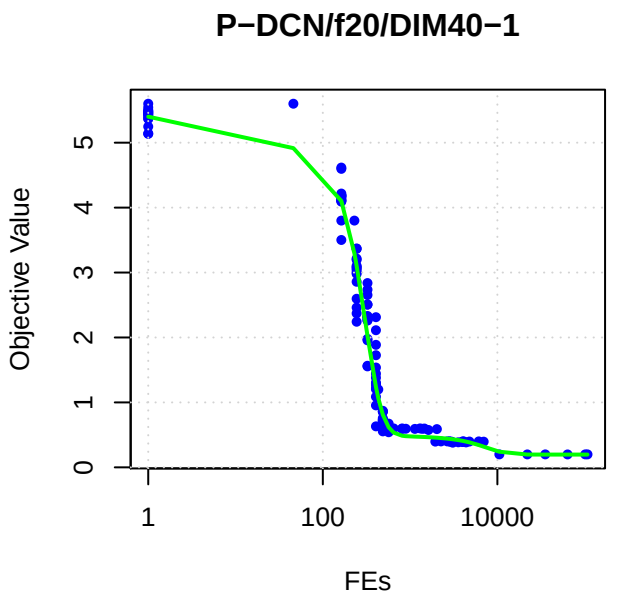
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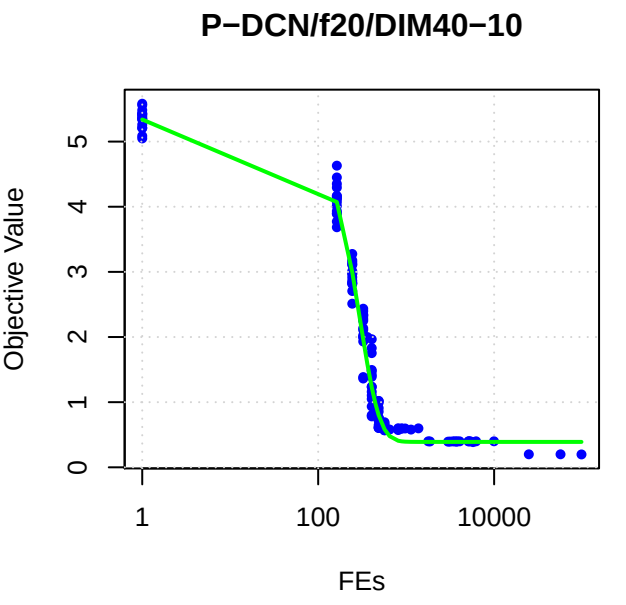
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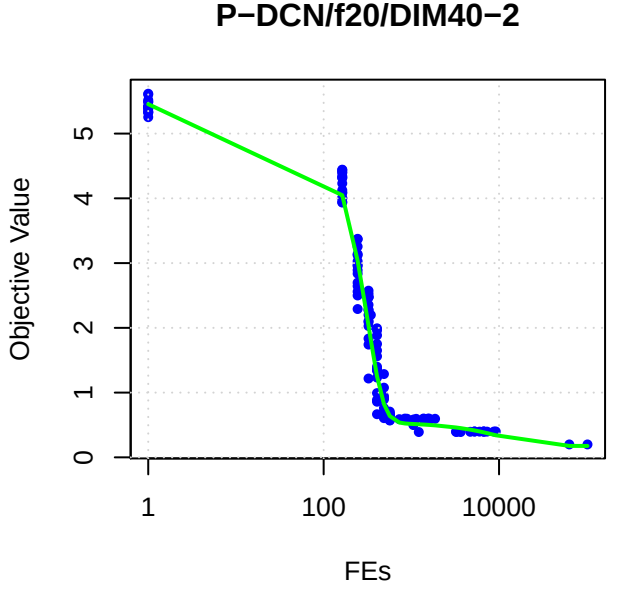
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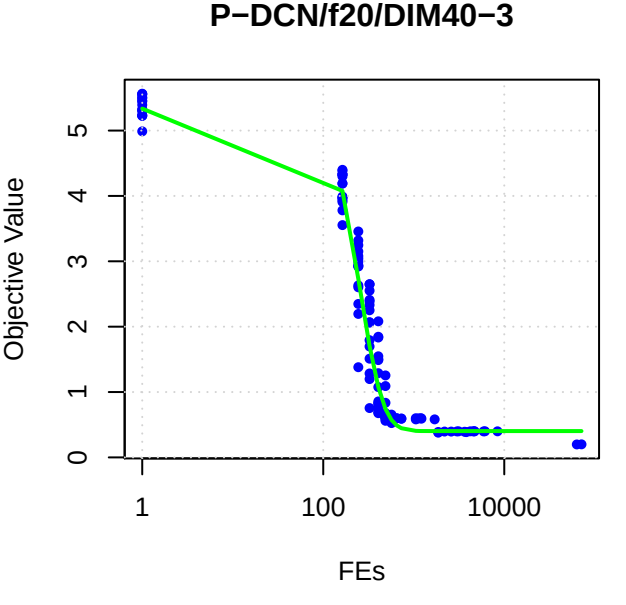
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Objective Value
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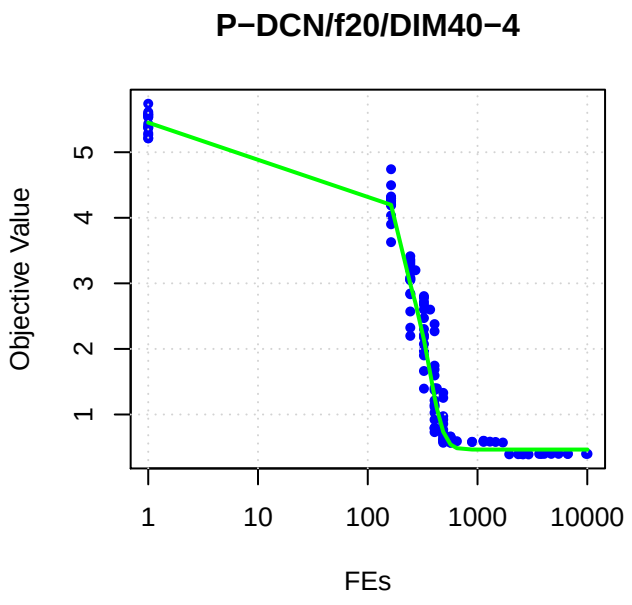
FEs


P−DCN/f20/DIM40−4
Objective Value
FEs
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10
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10000
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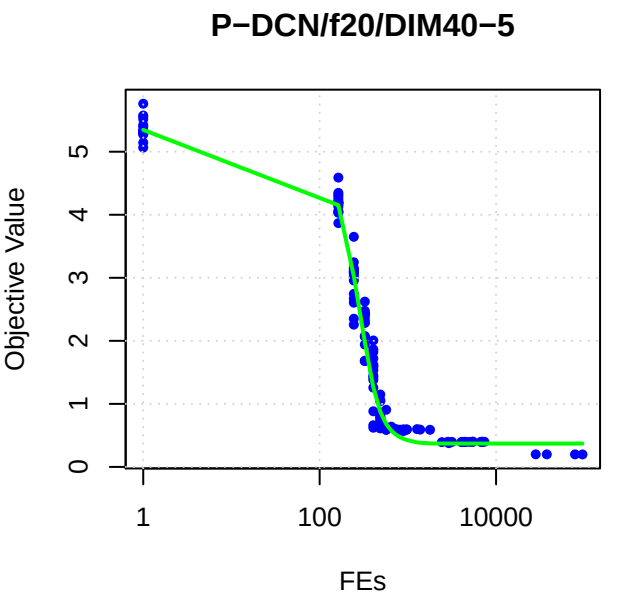
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Objective Value
FEs
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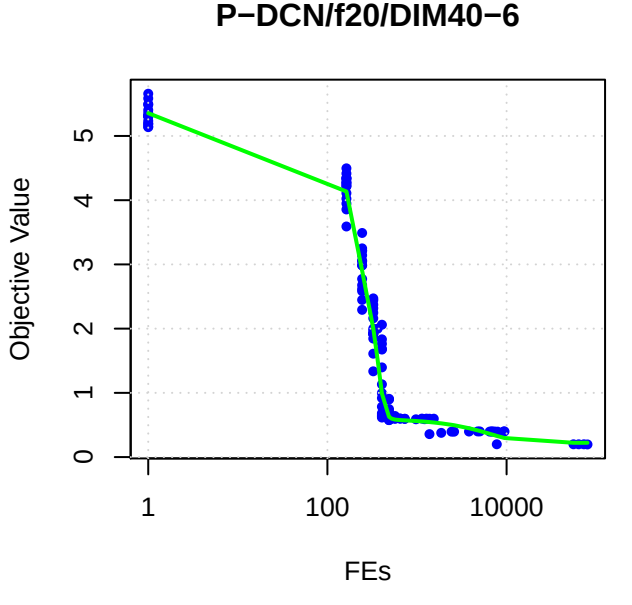
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Objective Value
FEs
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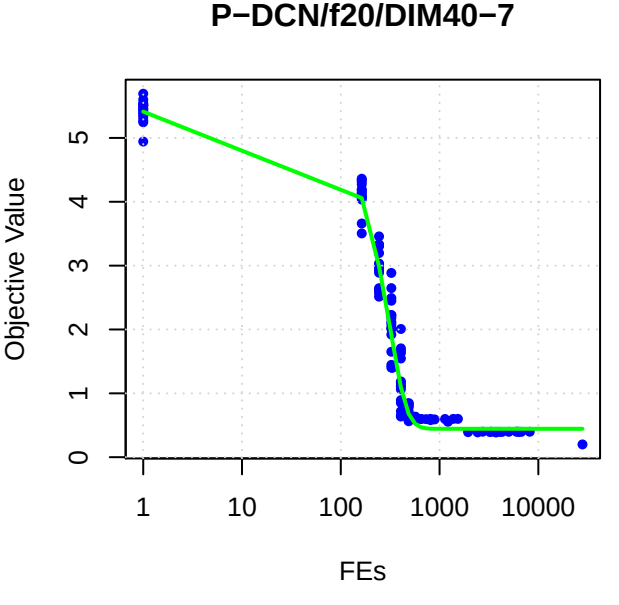
P−DCN/f20/DIM40−7
Objective Value
FEs
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10
100
1000
10000
0
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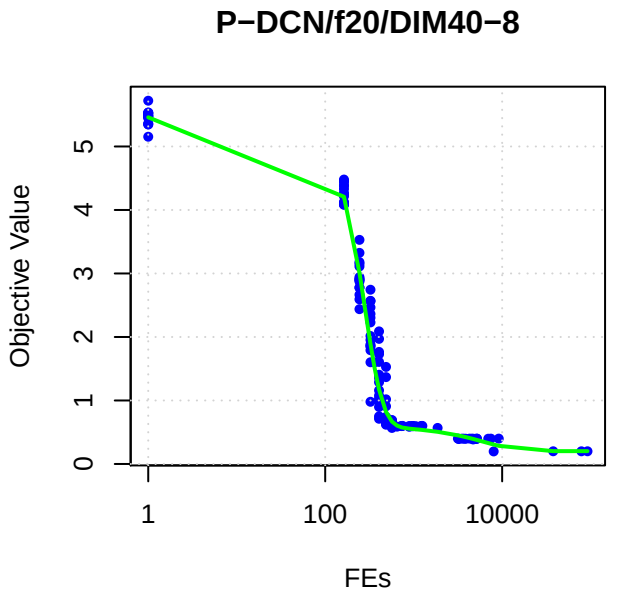
2
3
4
5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Objective Value
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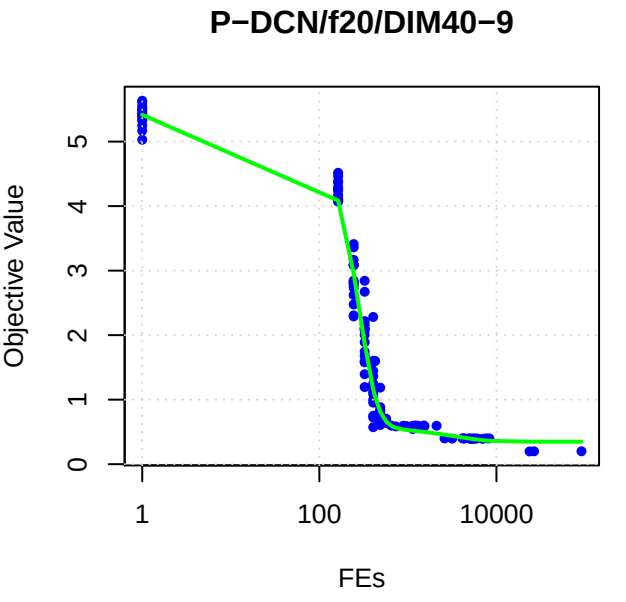
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Objective Value
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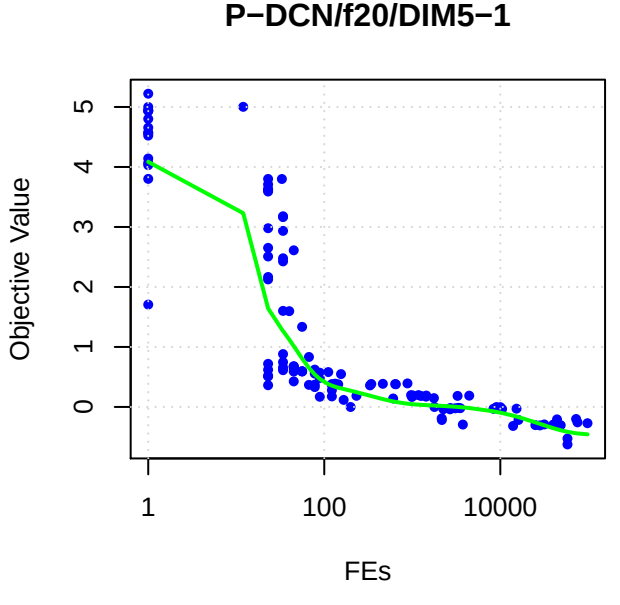
FEs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Objective Value
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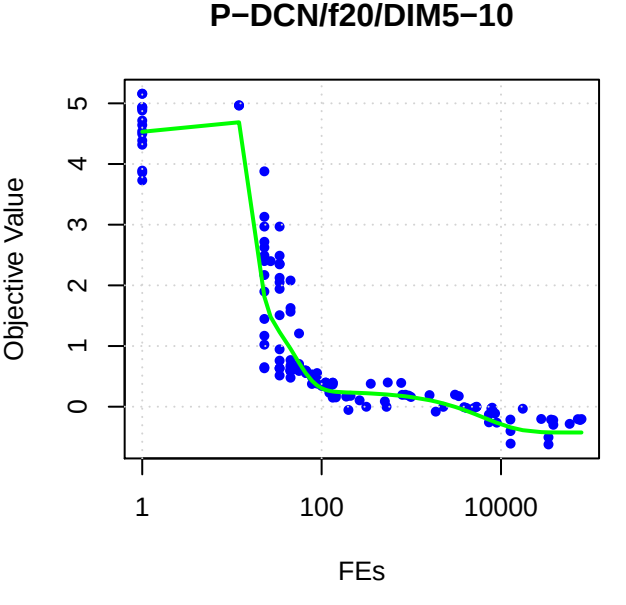
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Objective Value
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3
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5
1
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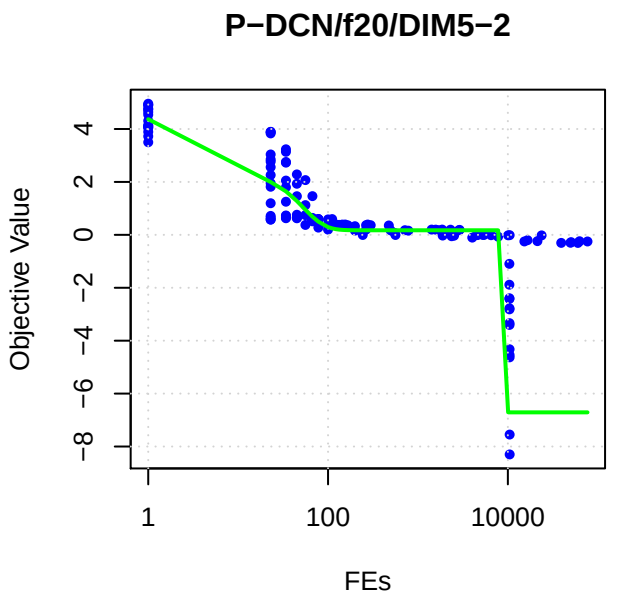
10000
FEs


P−DCN/f20/DIM5−2
Objective Value
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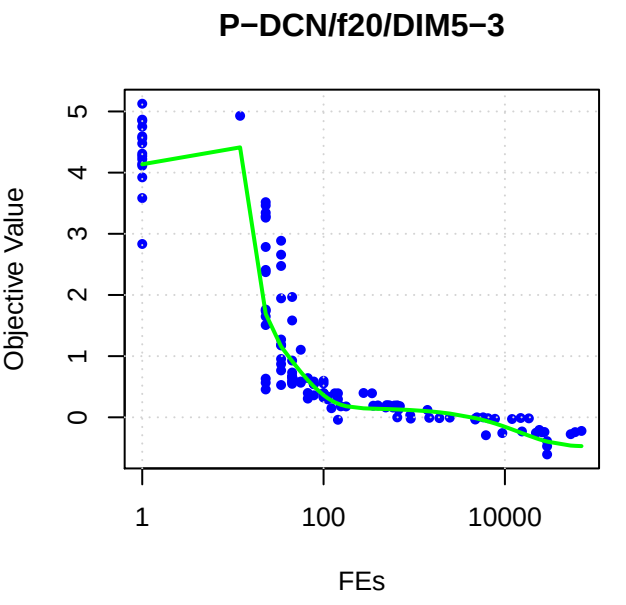
FEs


P−DCN/f20/DIM5−3
Objective Value
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3
2
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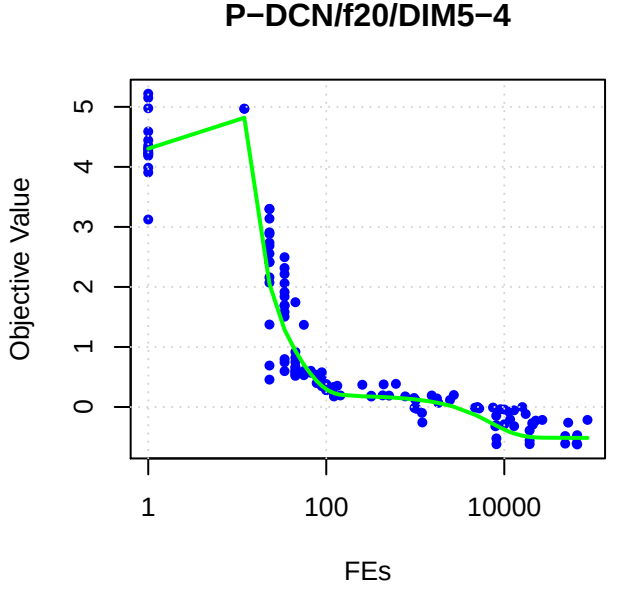
10000
FEs


P−DCN/f20/DIM5−4
Objective Value
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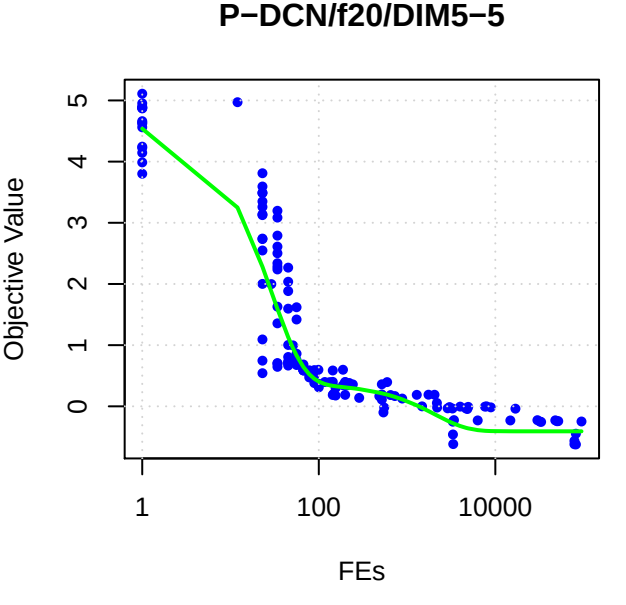
FEs


P−DCN/f20/DIM5−5
Objective Value
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1
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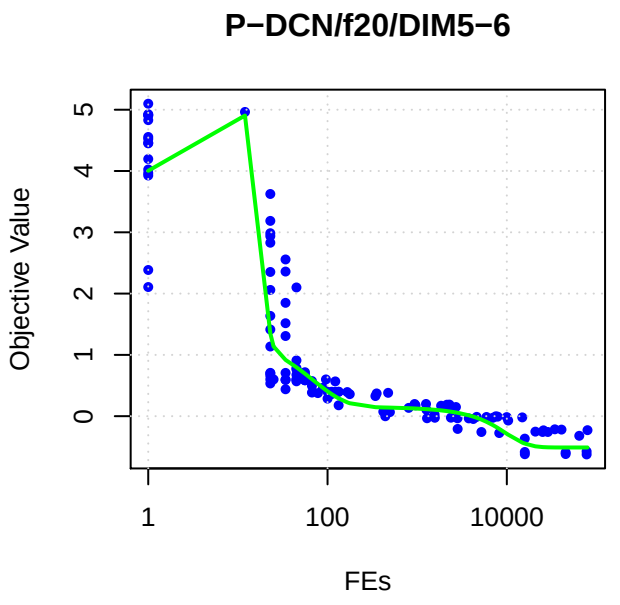
10000
FEs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Objective Value
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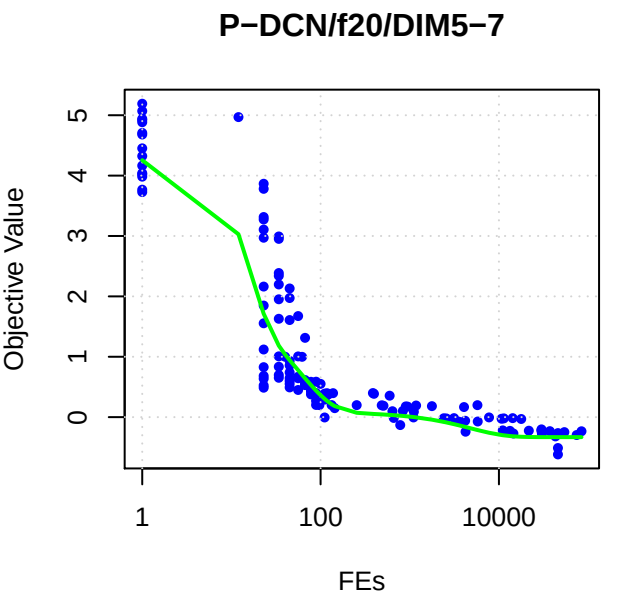
10000
FEs


P−DCN/f20/DIM5−7
Objective Value
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3
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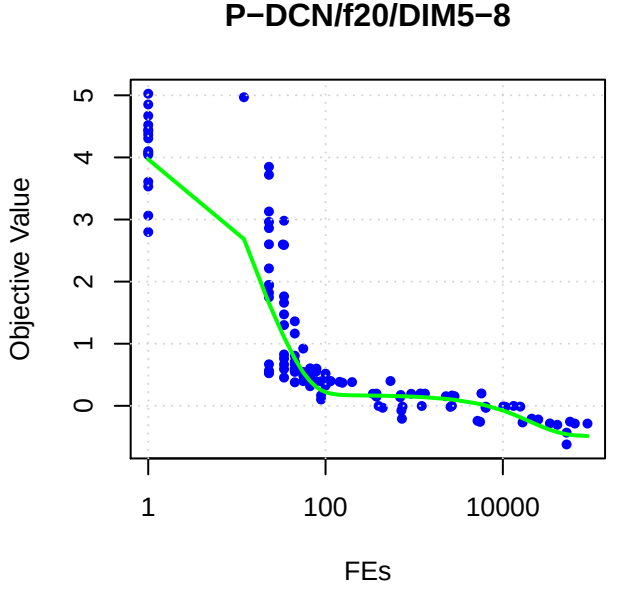
FEs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Objective Value
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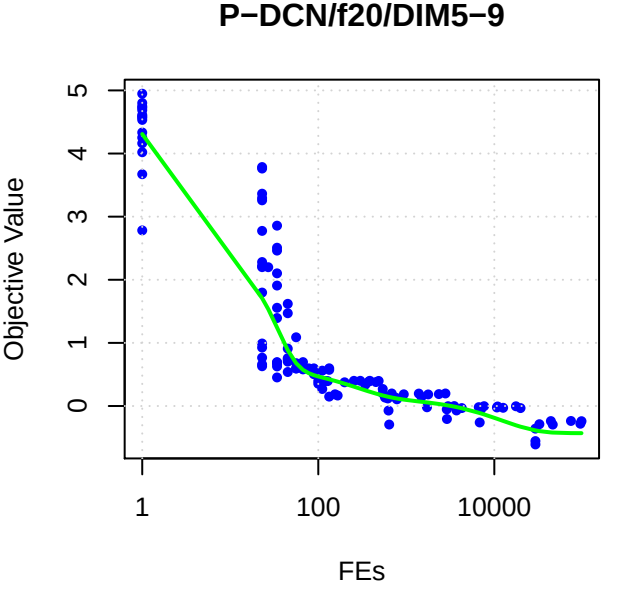
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Objective Value
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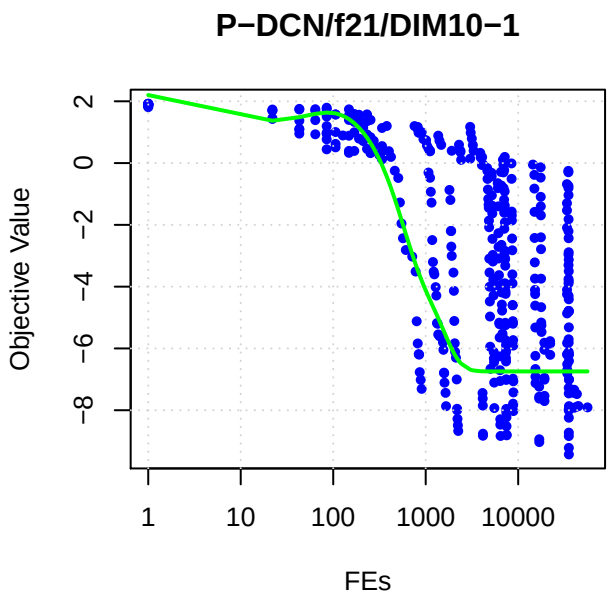
10000
FEs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Objective Value
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−4
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−8
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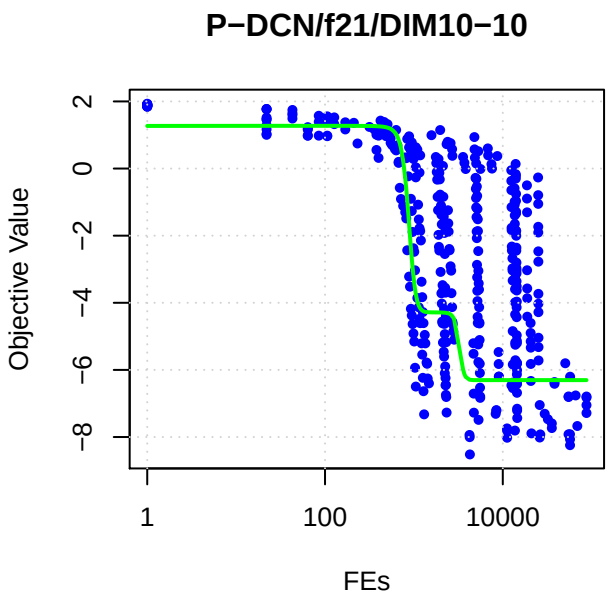
1000
10000
FEs


P−DCN/f21/DIM10−10
Objective Value
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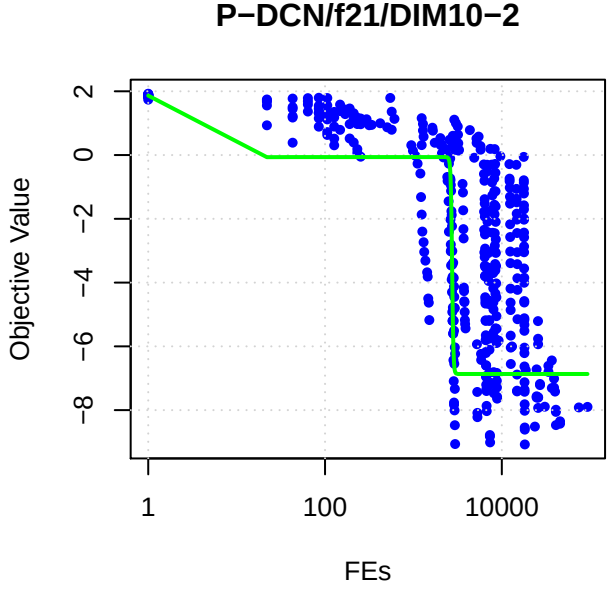
FEs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Objective Value
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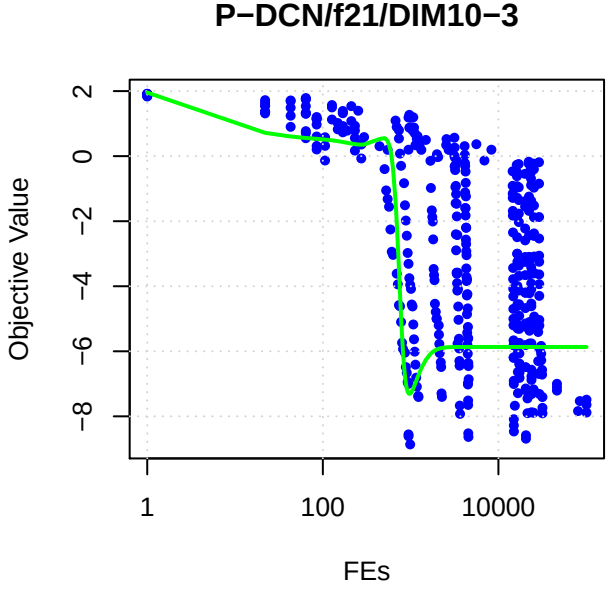
FEs


P−DCN/f21/DIM10−3
Objective Value
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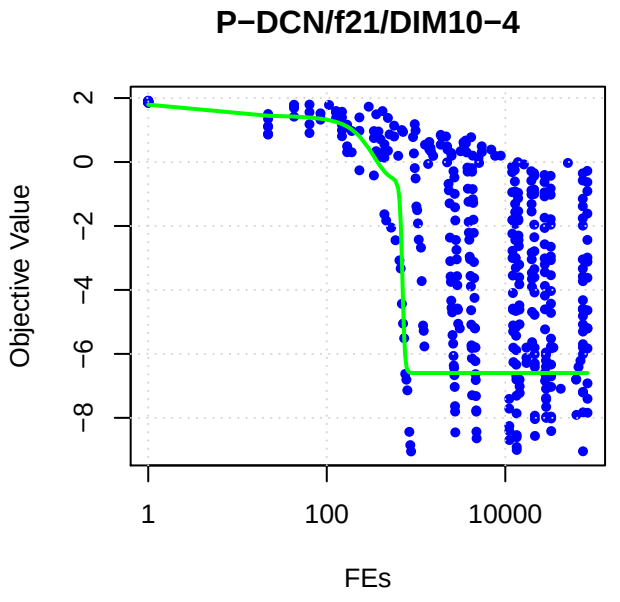
10000
FEs


P−DCN/f21/DIM10−4
Objective Value
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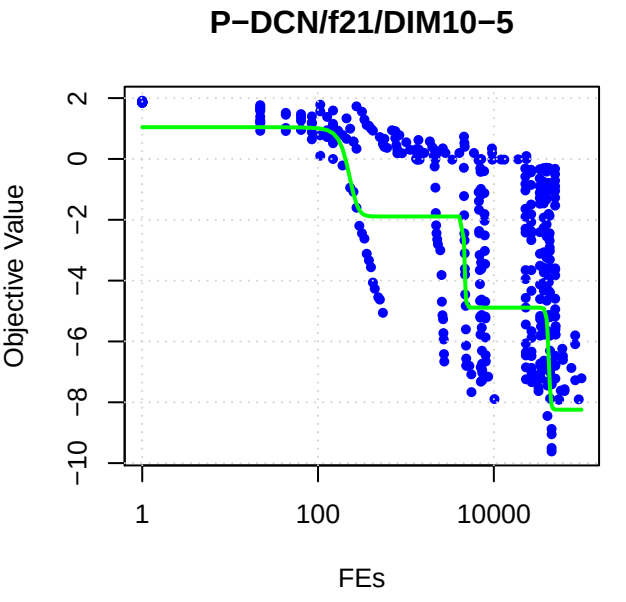
10000
FEs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Objective Value
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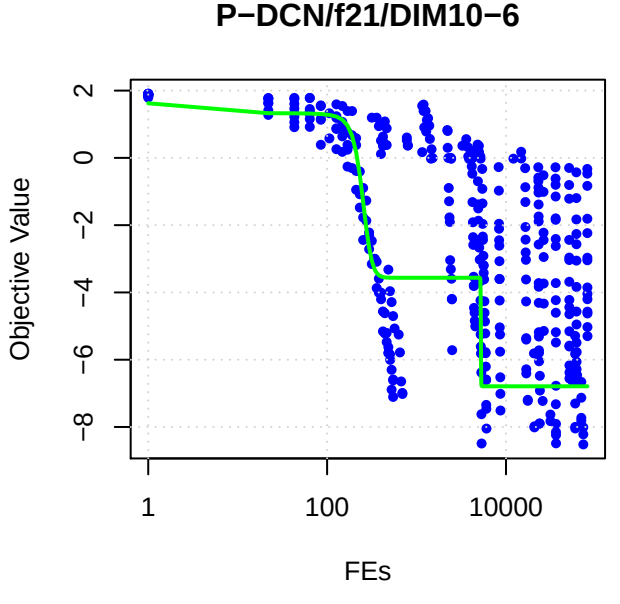
10000
FEs


P−DCN/f21/DIM10−6
Objective Value
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−8
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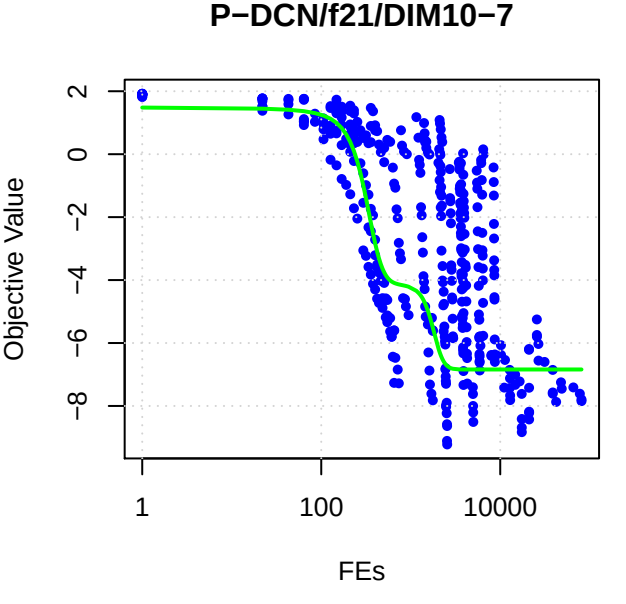
10000
FEs


P−DCN/f21/DIM10−7
Objective Value
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−4
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−8
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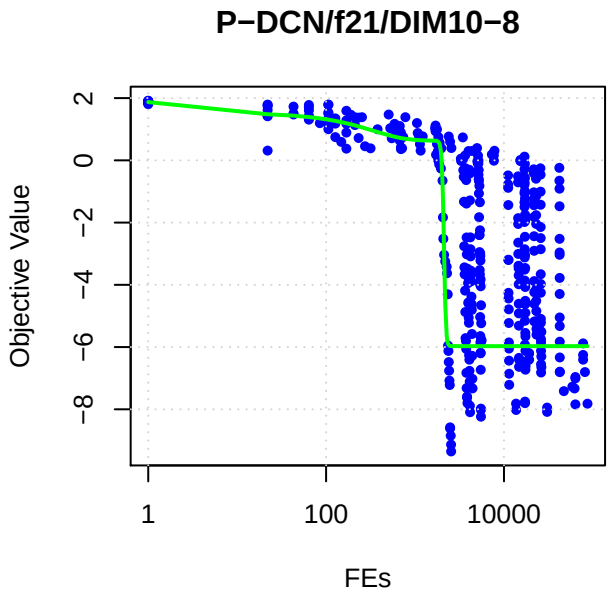
100
10000
FEs


P−DCN/f21/DIM10−8
Objective Value
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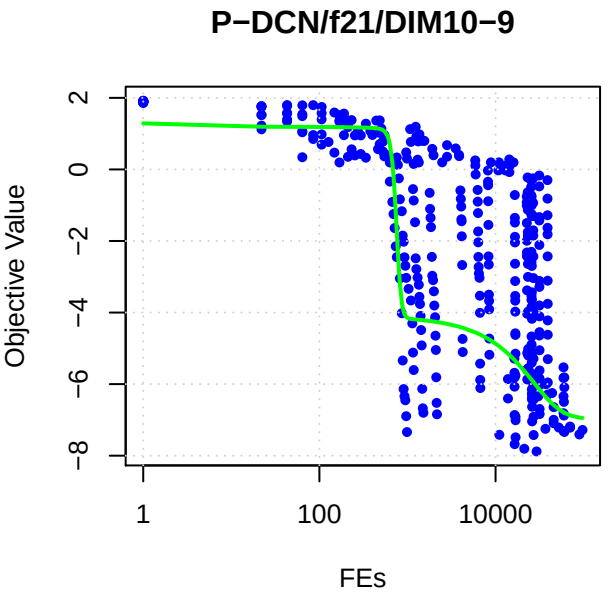
P−DCN/f21/DIM10−9
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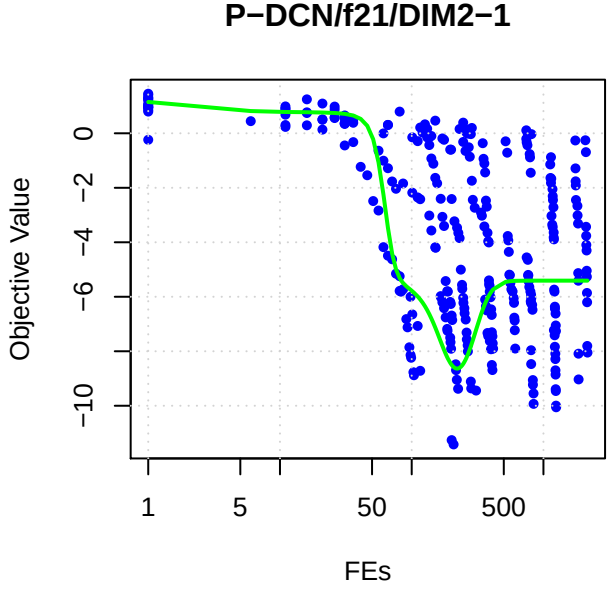
FEs


P−DCN/f21/DIM2−1
Objective Value
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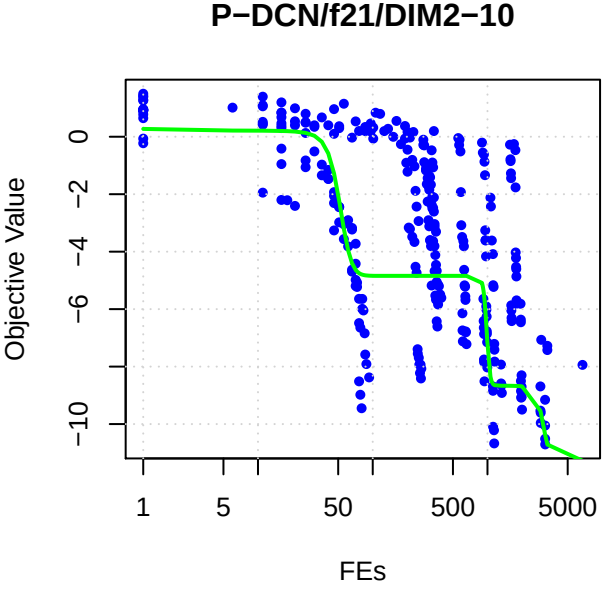
FEs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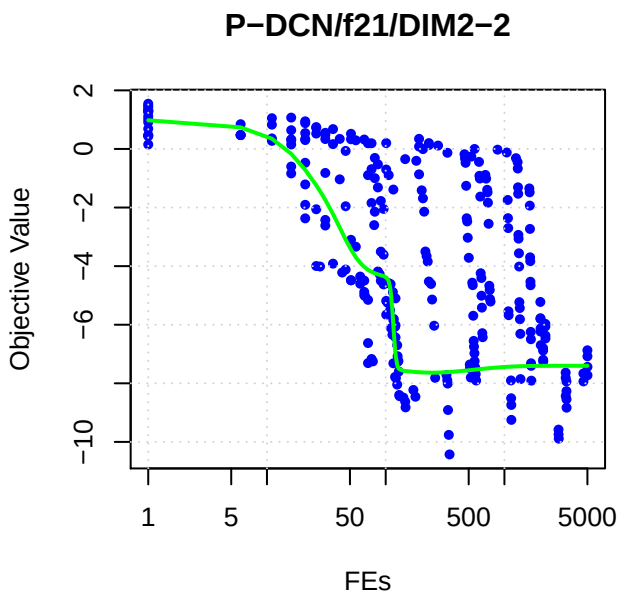
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Objective Value
FEs
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500
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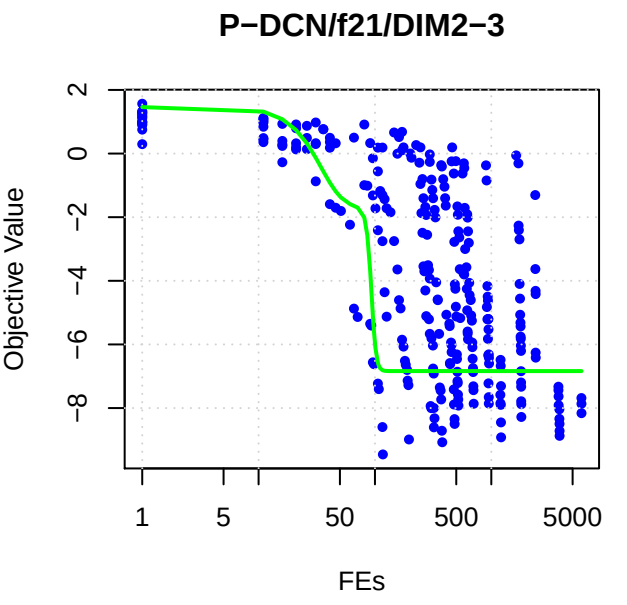
P−DCN/f21/DIM2−3
Objective Value
FEs
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500
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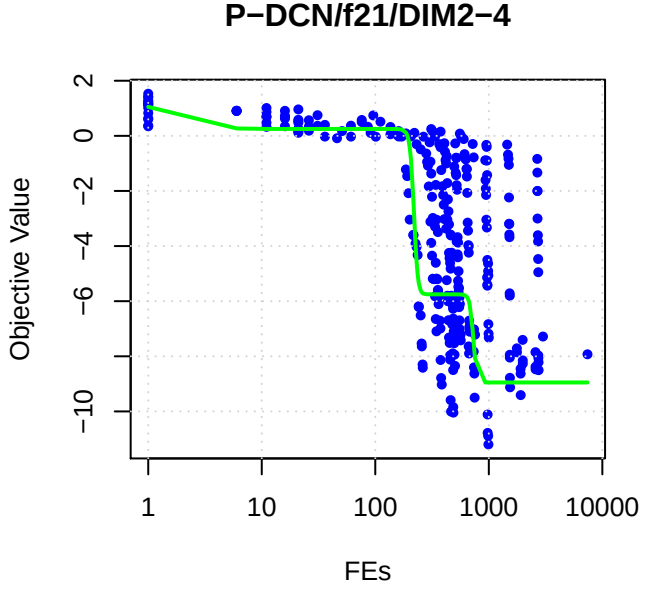
P−DCN/f21/DIM2−4
Objective Value
FEs
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1000
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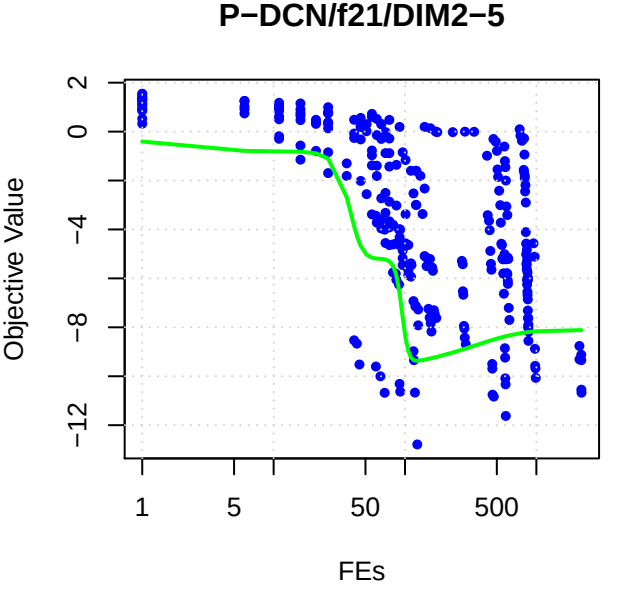
P−DCN/f21/DIM2−5
Objective Value
FEs
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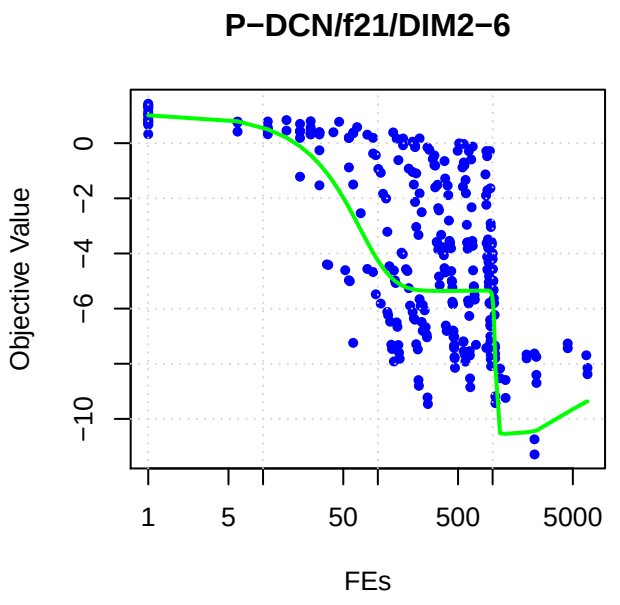
P−DCN/f21/DIM2−6
Objective Value
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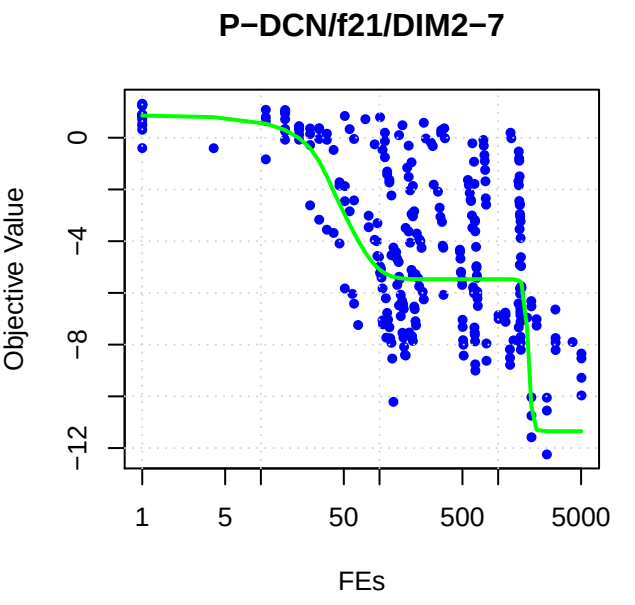
FEs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Objective Value
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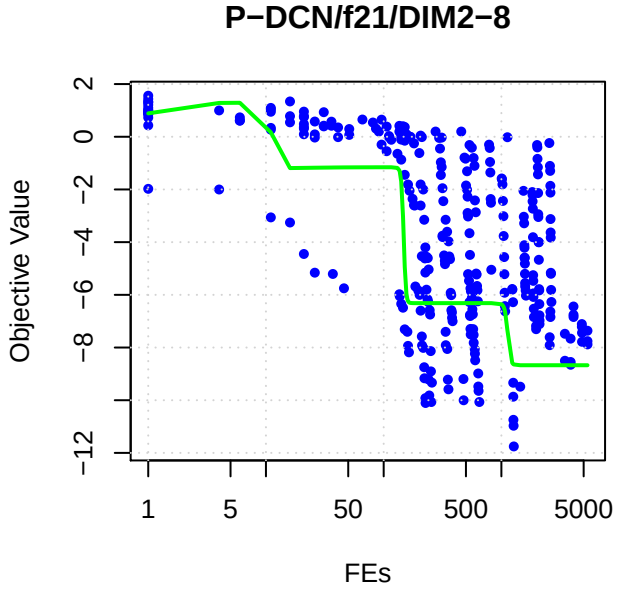
P−DCN/f21/DIM2−8
Objective Value
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500
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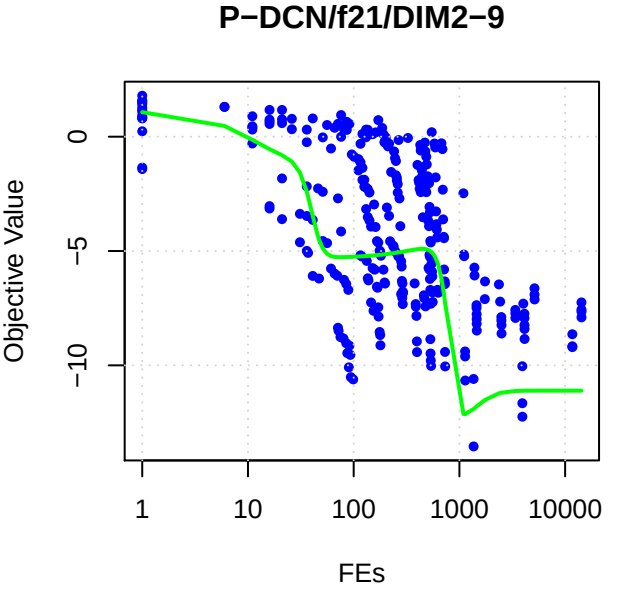
FEs


P−DCN/f21/DIM2−9
Objective Value
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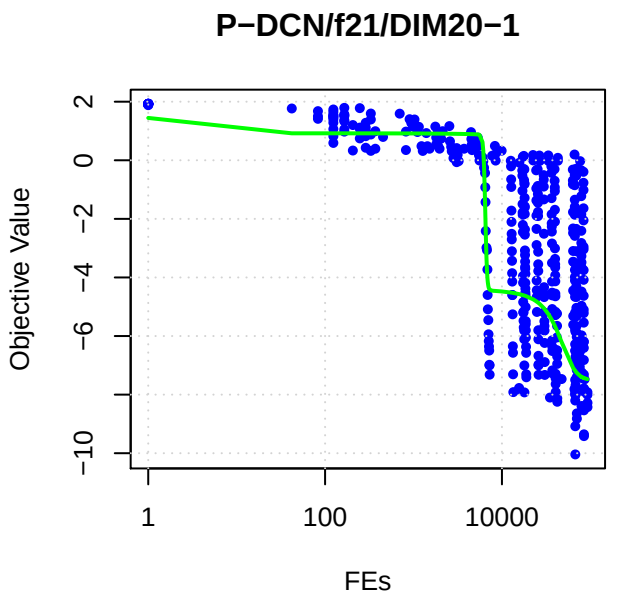
1000
10000
FEs


P−DCN/f21/DIM20−1
Objective Value
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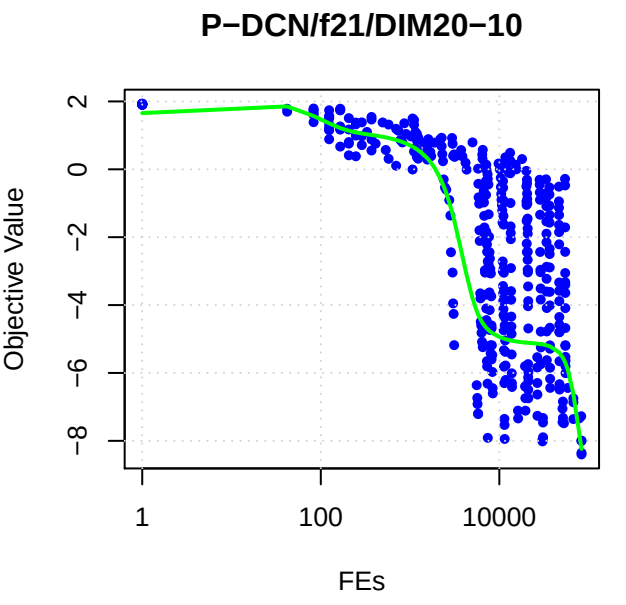
FEs


P−DCN/f21/DIM20−10
Objective Value
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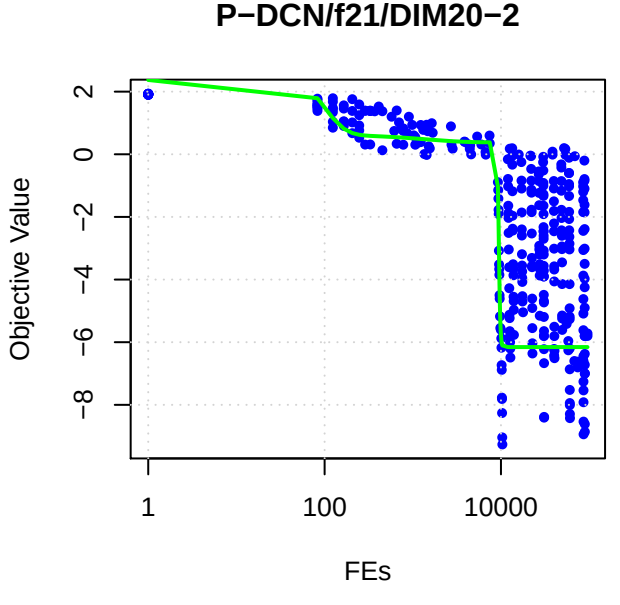
FEs


P−DCN/f21/DIM20−2
Objective Value
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−8
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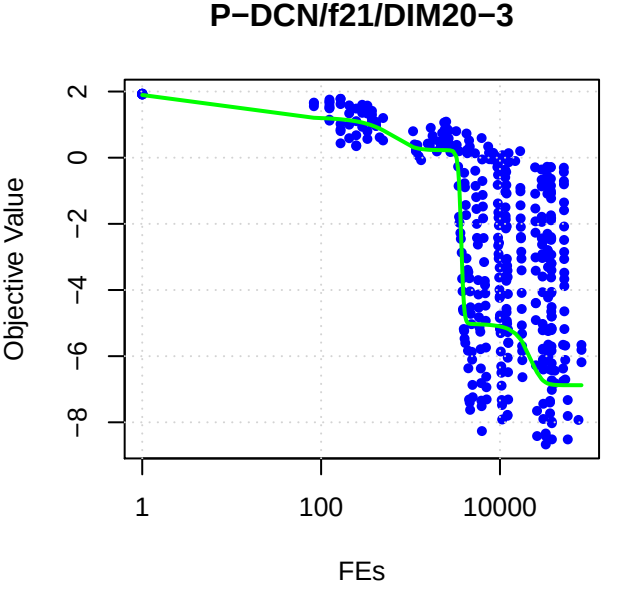
10000
FEs


P−DCN/f21/DIM20−3
Objective Value
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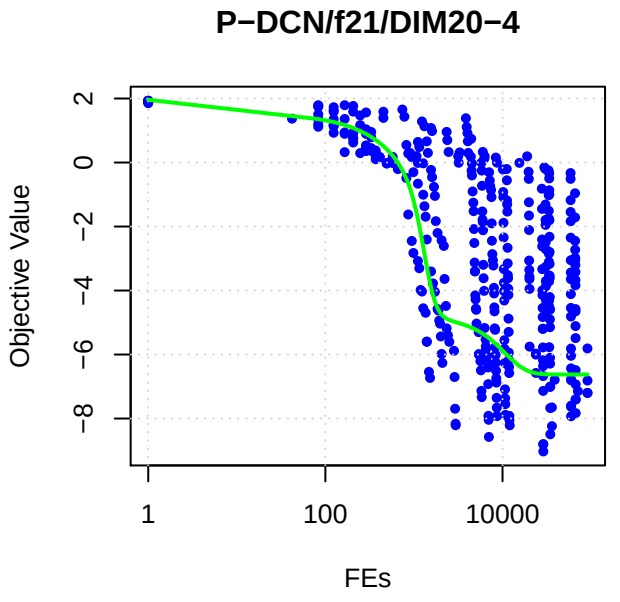
10000
FEs


P−DCN/f21/DIM20−4
Objective Value
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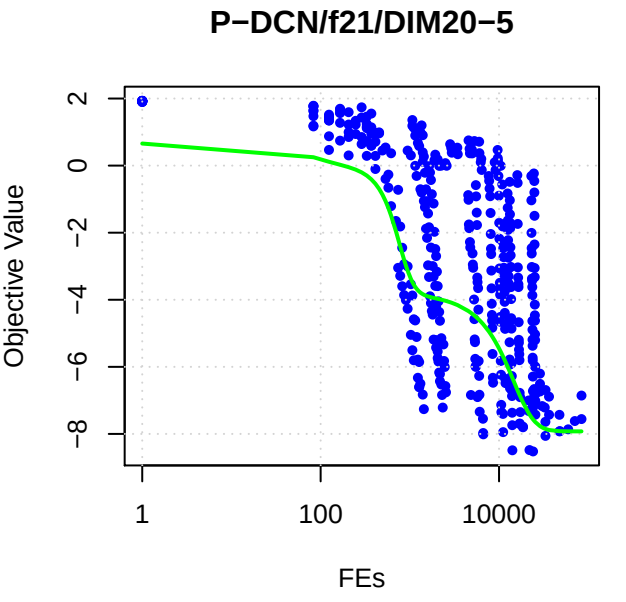
FEs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Objective Value
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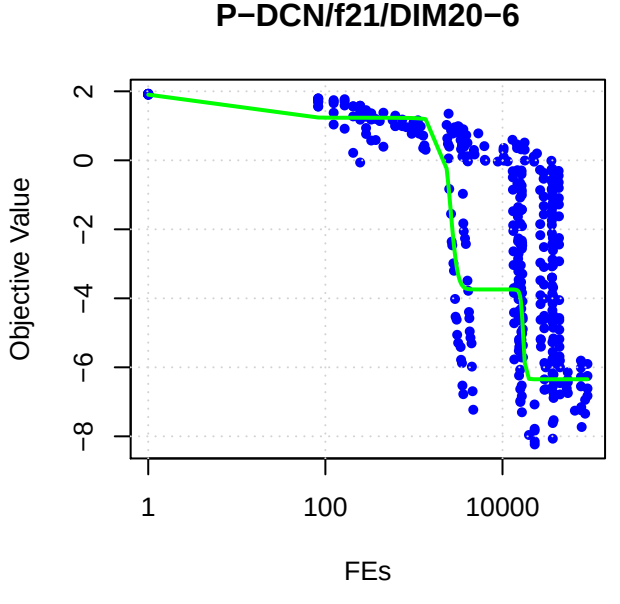
P−DCN/f21/DIM20−6
Objective Value
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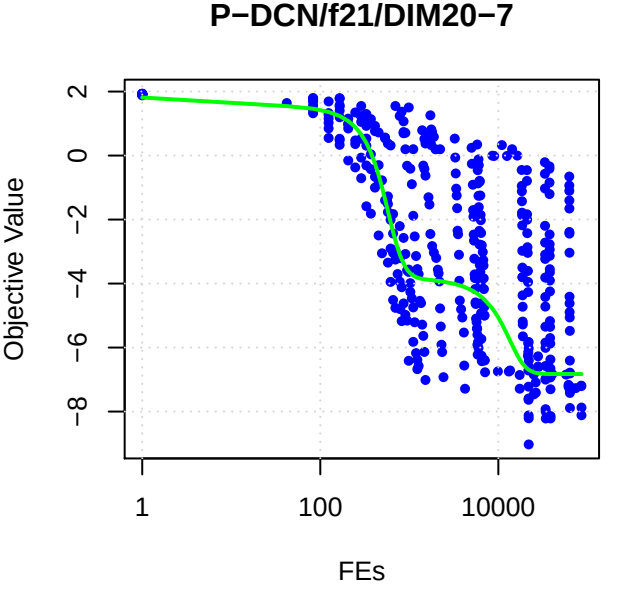
P−DCN/f21/DIM20−7
Objective Value
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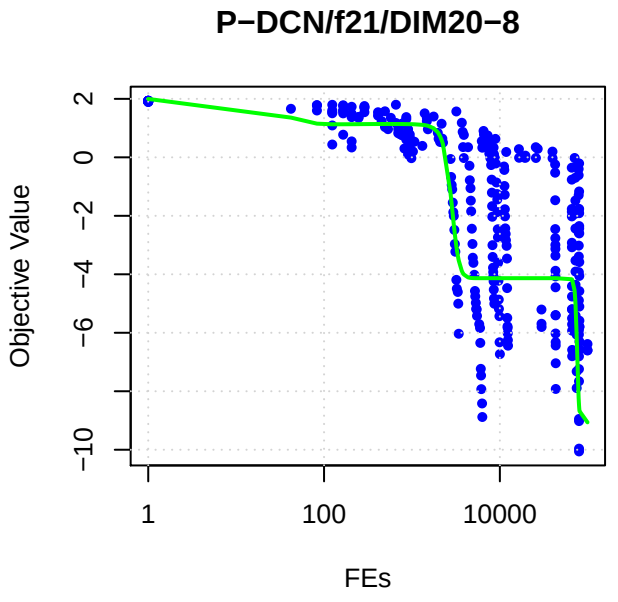
P−DCN/f21/DIM20−8
Objective Value
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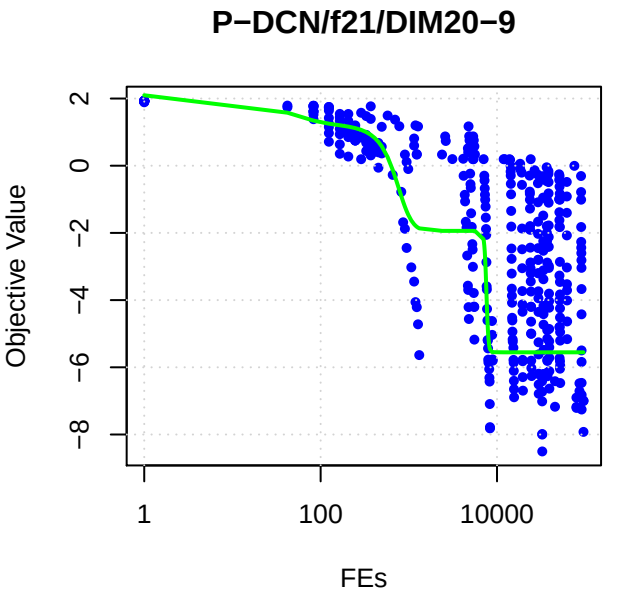
P−DCN/f21/DIM20−9
Objective Value
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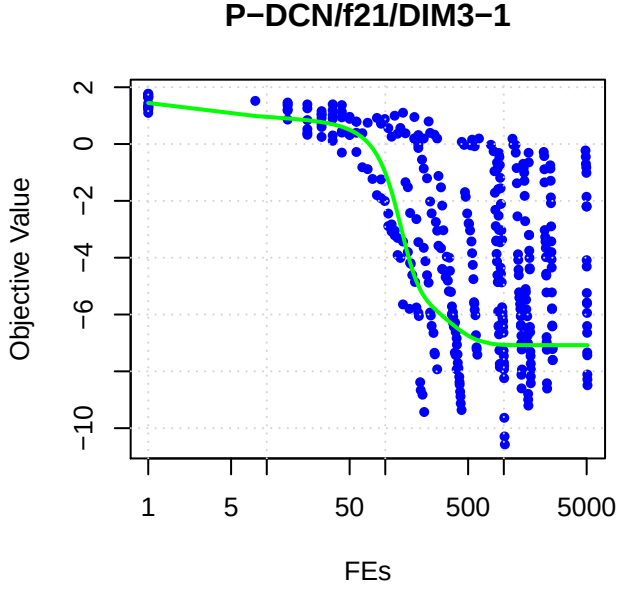
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Objective Value
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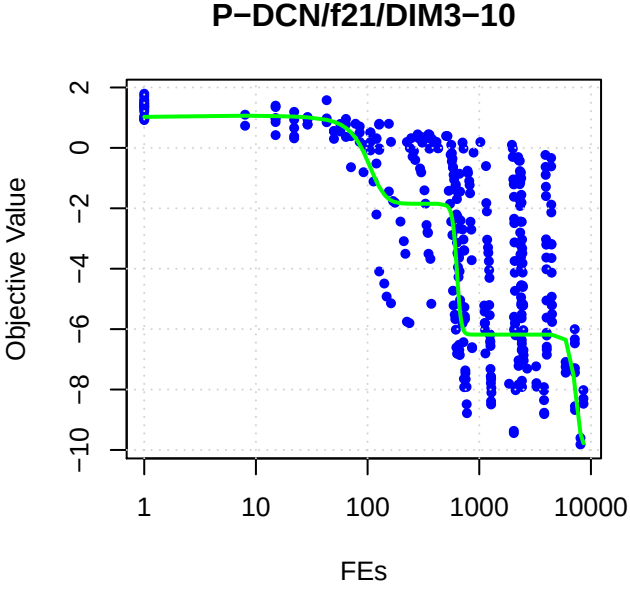
P−DCN/f21/DIM3−10
Objective Value
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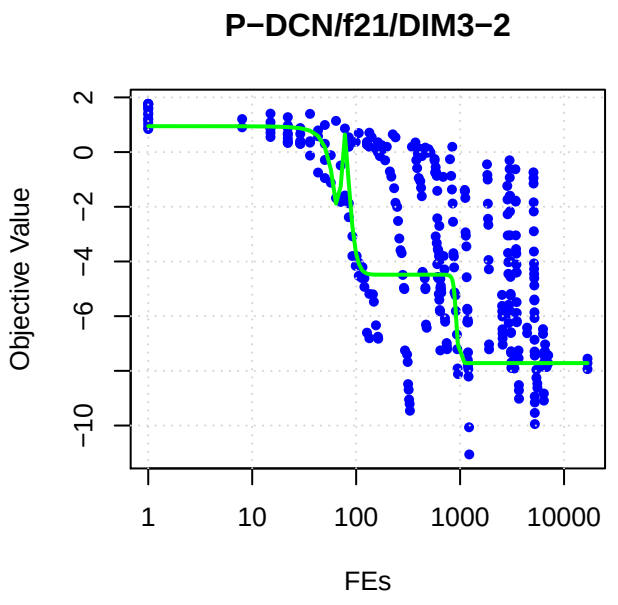
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Objective Value
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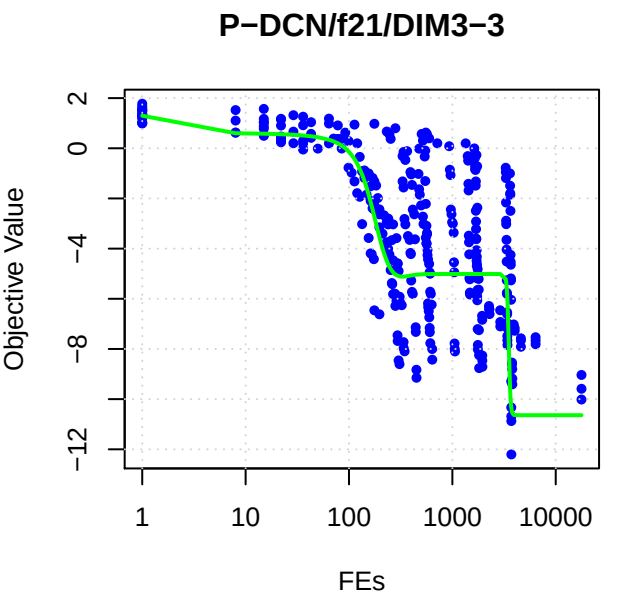
P−DCN/f21/DIM3−3
Objective Value
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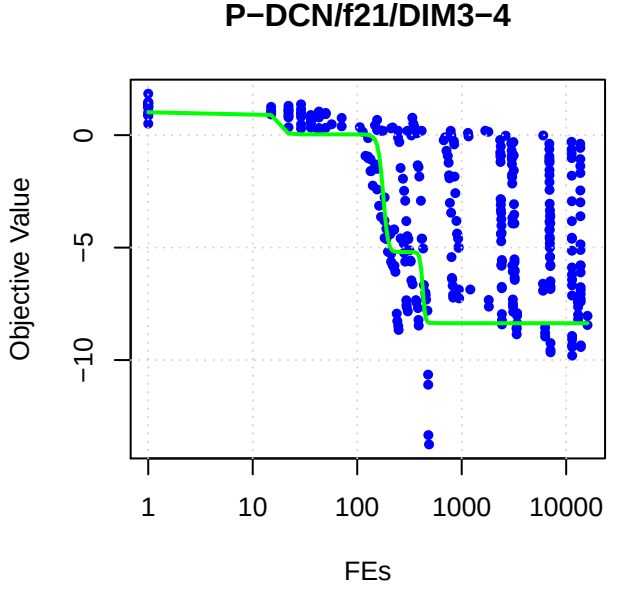
P−DCN/f21/DIM3−4
Objective Value
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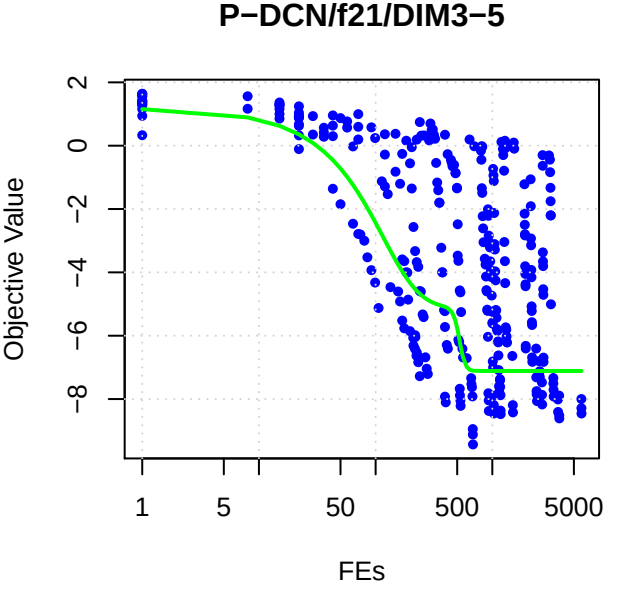
1000
10000
FEs


P−DCN/f21/DIM3−5
Objective Value
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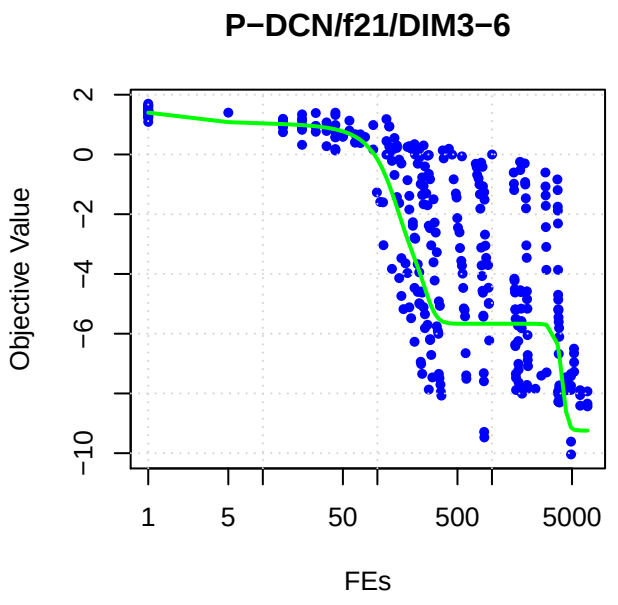
P−DCN/f21/DIM3−6
Objective Value
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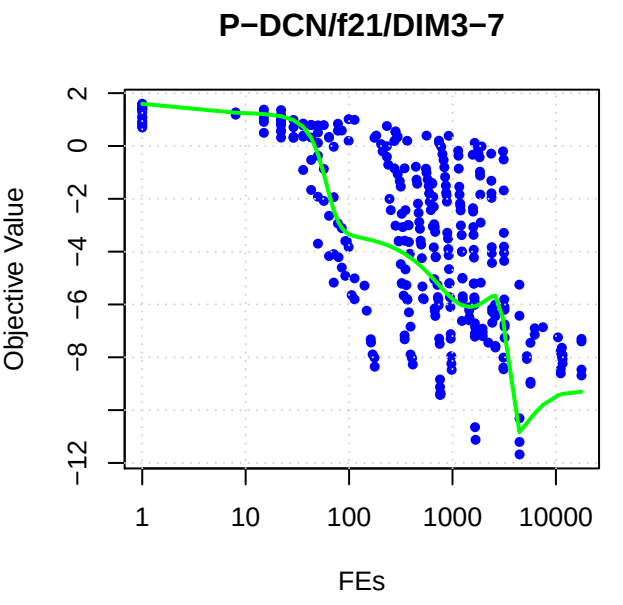
P−DCN/f21/DIM3−7
Objective Value
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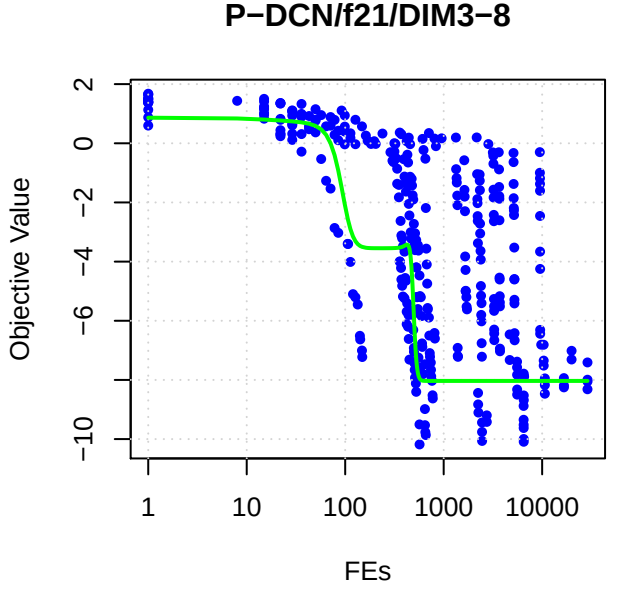
P−DCN/f21/DIM3−8
Objective Value
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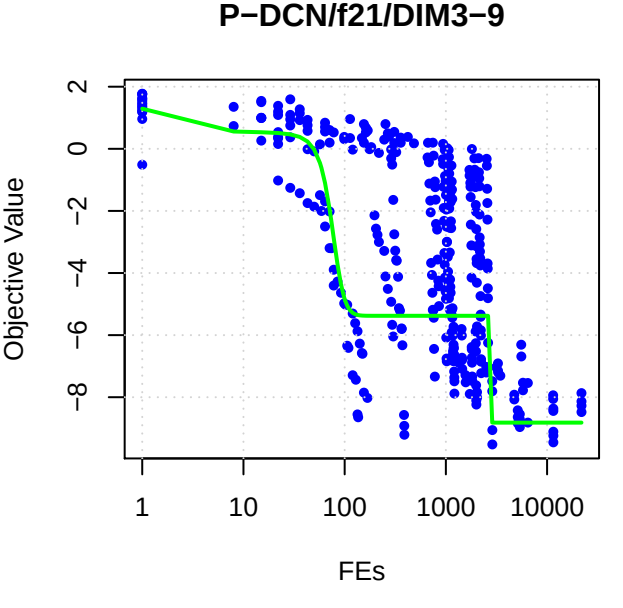
P−DCN/f21/DIM3−9
Objective Value
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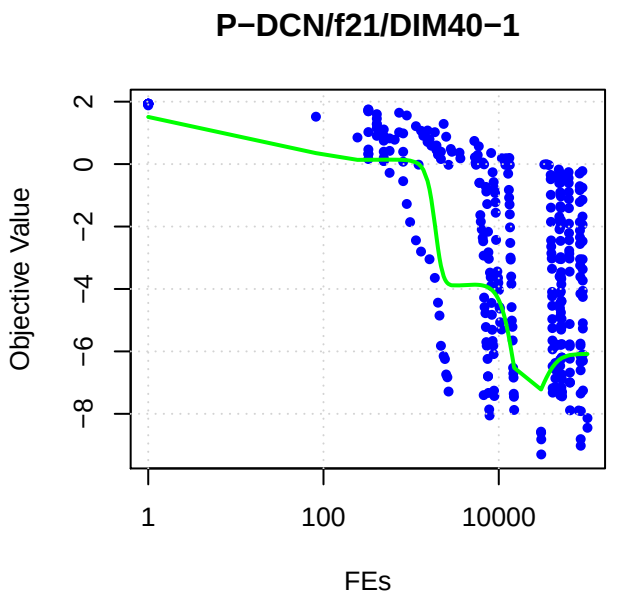
P−DCN/f21/DIM40−1
Objective Value
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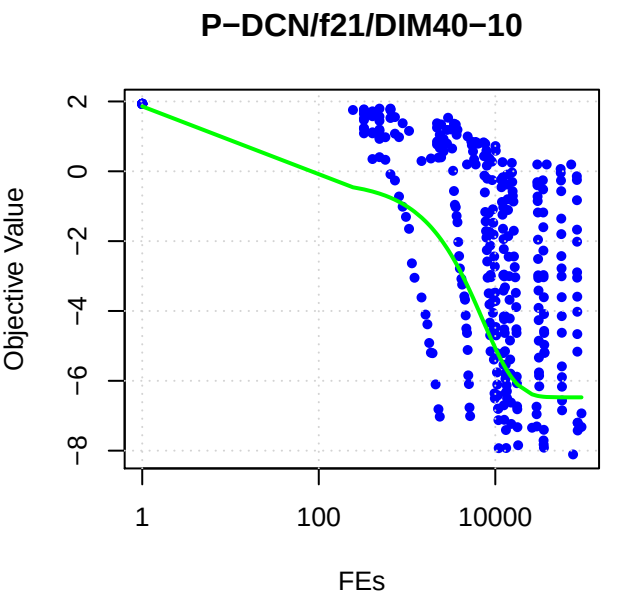
100
10000
FEs


P−DCN/f21/DIM40−10
Objective Value
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−8
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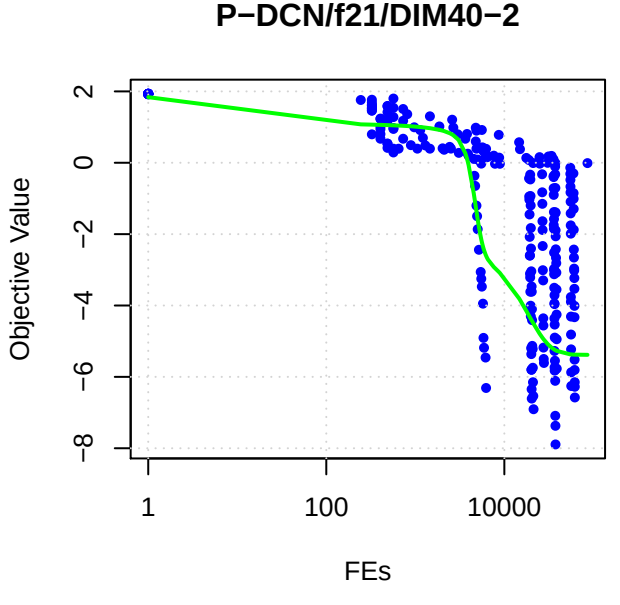
10000
FEs


P−DCN/f21/DIM40−2
Objective Value
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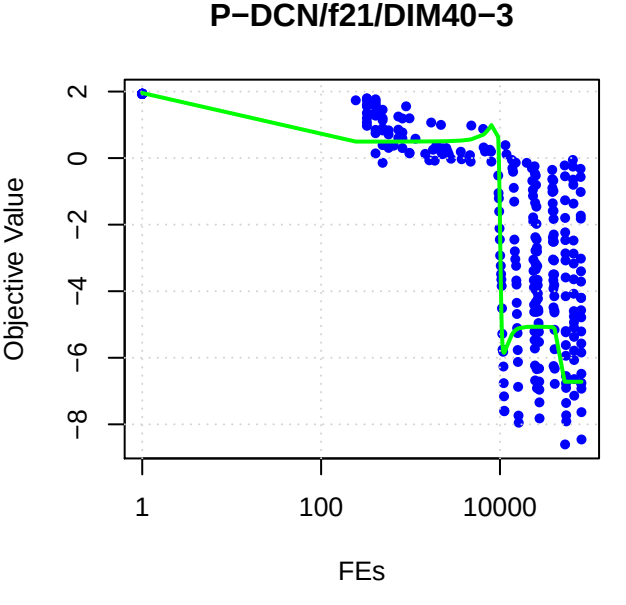
P−DCN/f21/DIM40−3
Objective Value
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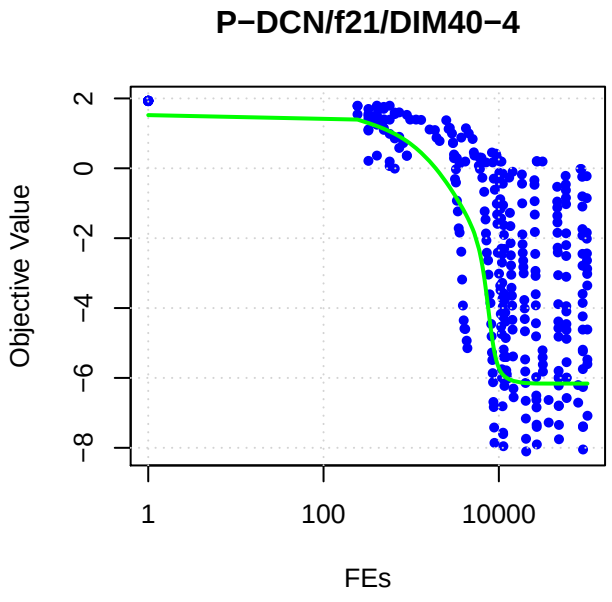
P−DCN/f21/DIM40−4
Objective Value
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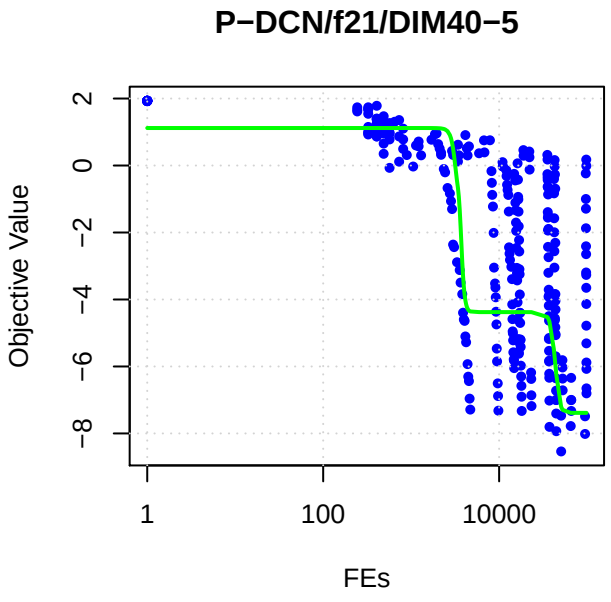
P−DCN/f21/DIM40−5
Objective Value
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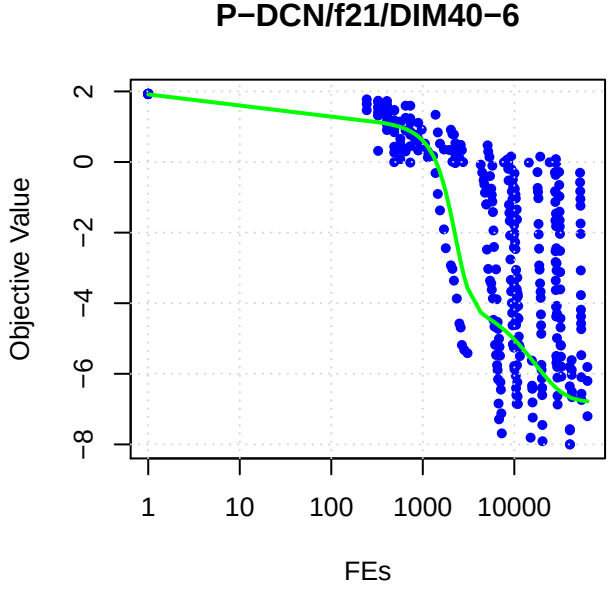
FEs


P−DCN/f21/DIM40−6
Objective Value
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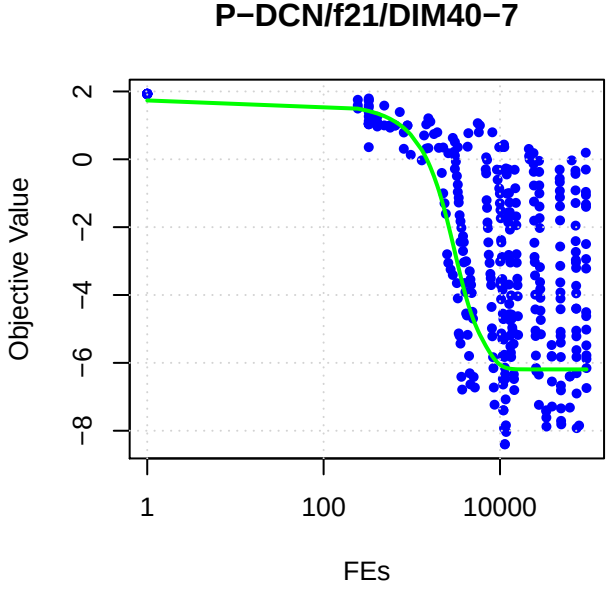
P−DCN/f21/DIM40−7
Objective Value
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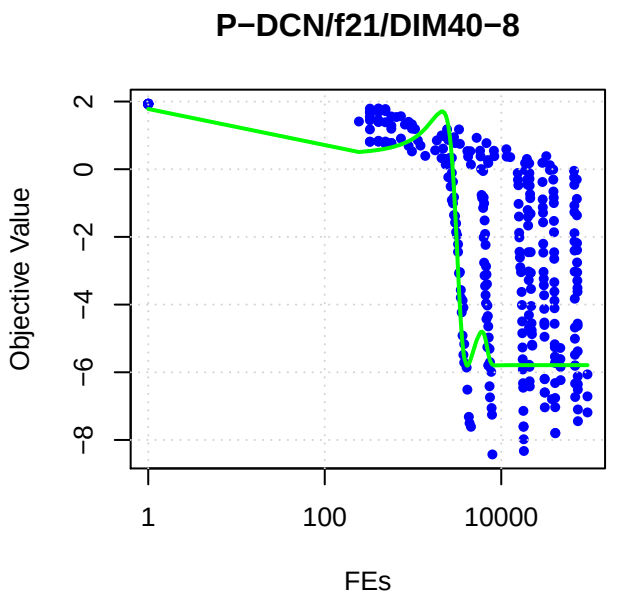
P−DCN/f21/DIM40−8
Objective Value
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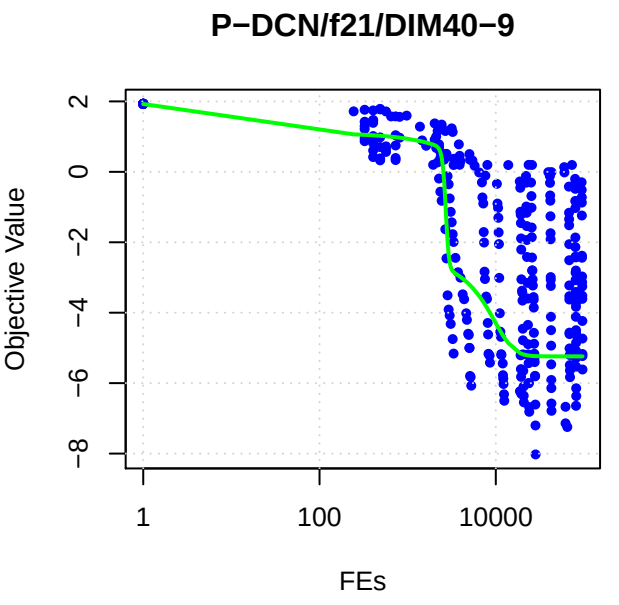
P−DCN/f21/DIM40−9
Objective Value
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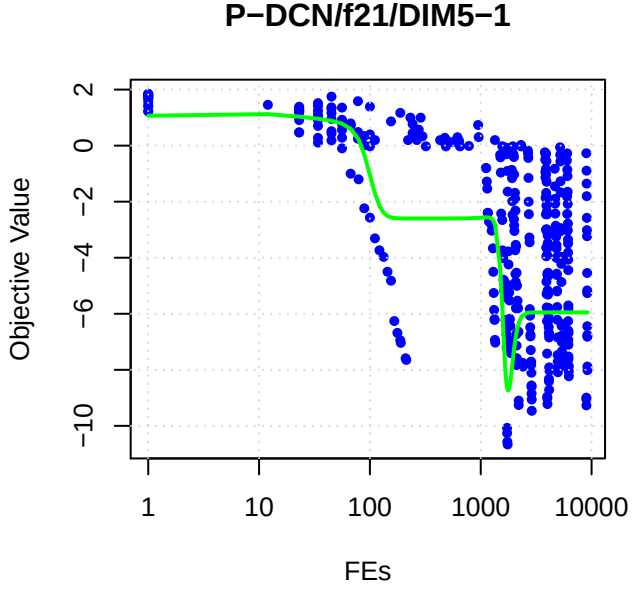
P−DCN/f21/DIM5−1
Objective Value
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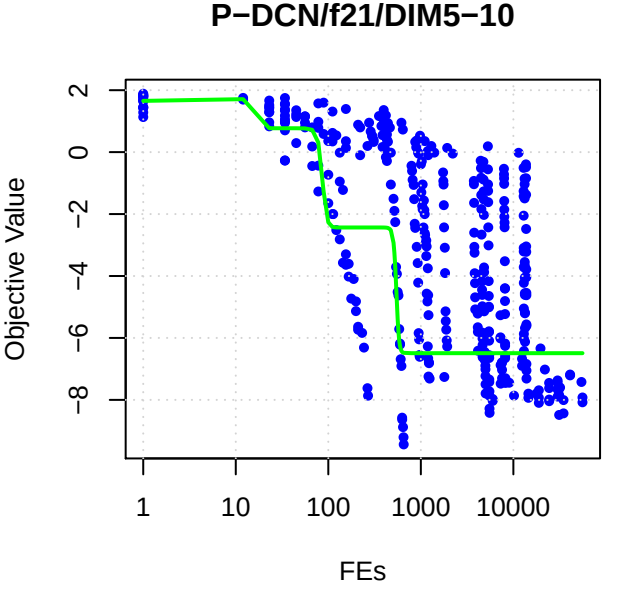
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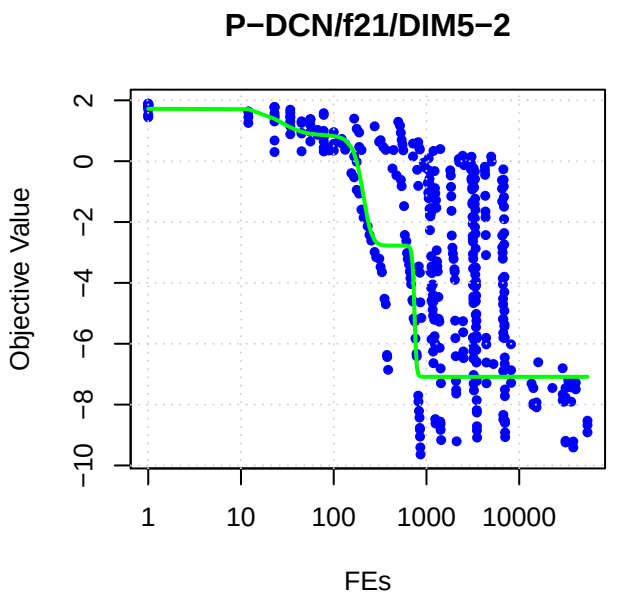
P−DCN/f21/DIM5−2
Objective Value
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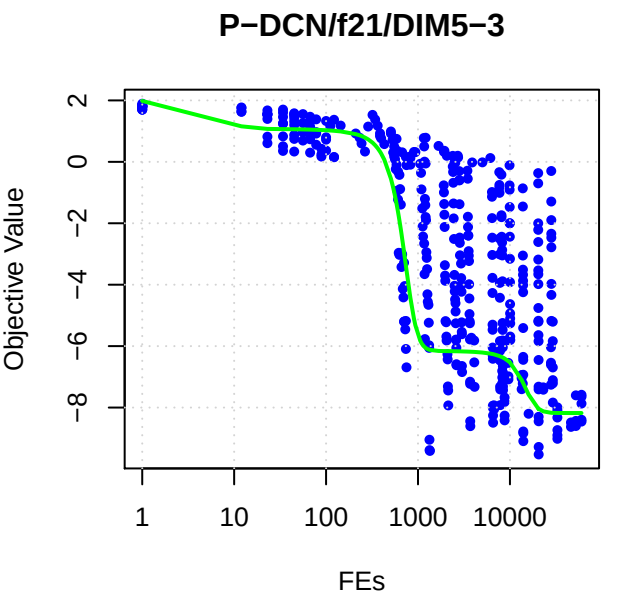
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Objective Value
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1000
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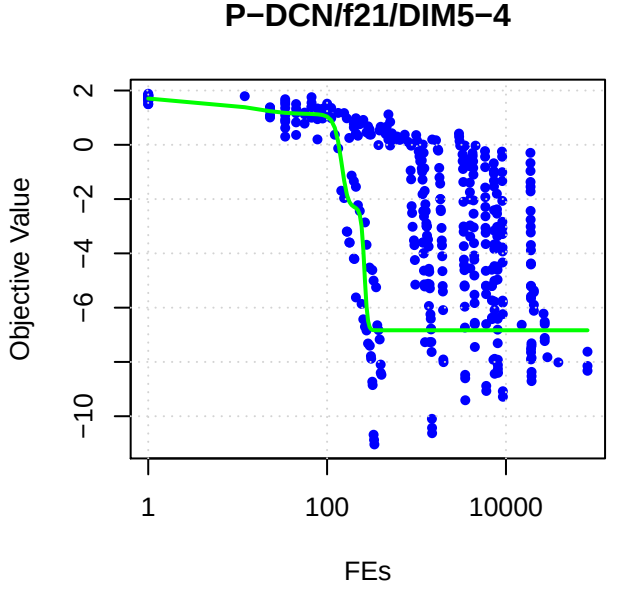
P−DCN/f21/DIM5−4
Objective Value
FEs
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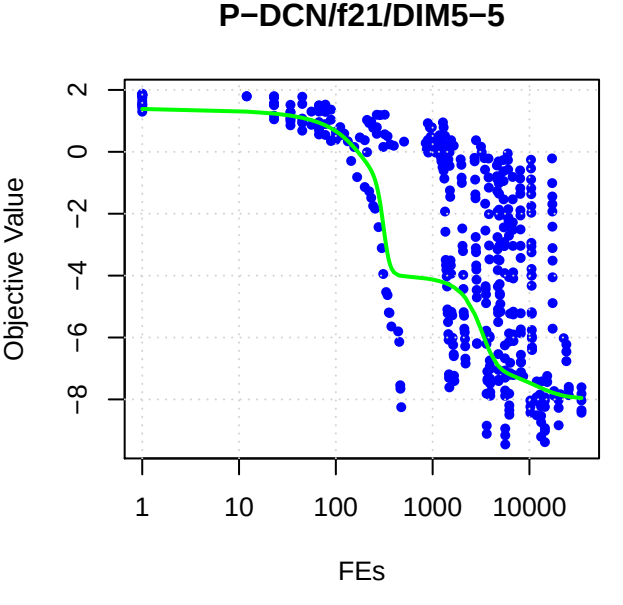
P−DCN/f21/DIM5−5
Objective Value
FEs
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−8
1
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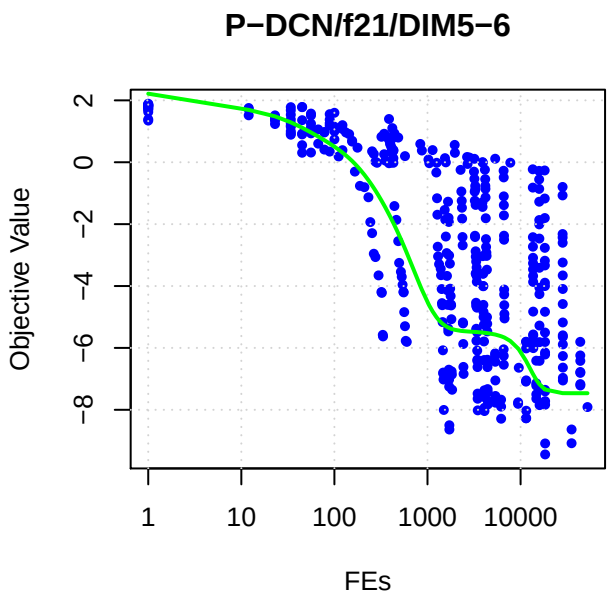
1000
10000


P−DCN/f21/DIM5−6
Objective Value
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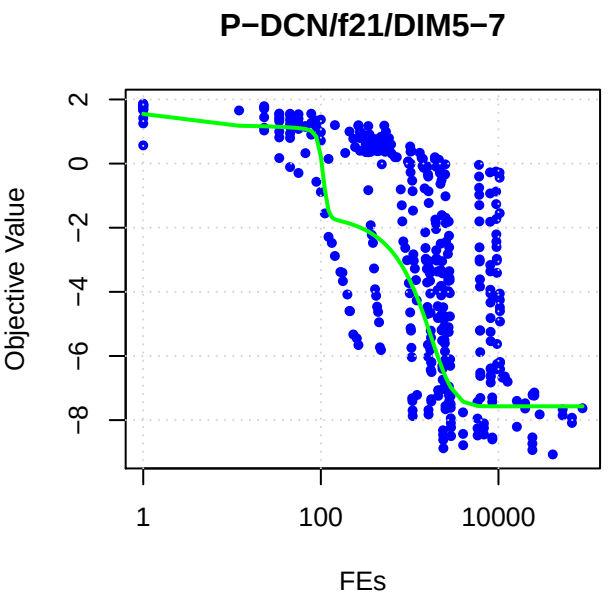
FEs


P−DCN/f21/DIM5−7
Objective Value
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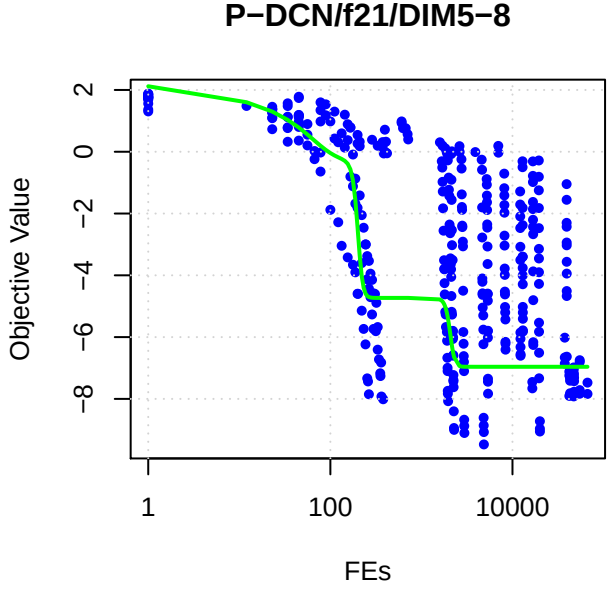
P−DCN/f21/DIM5−8
Objective Value
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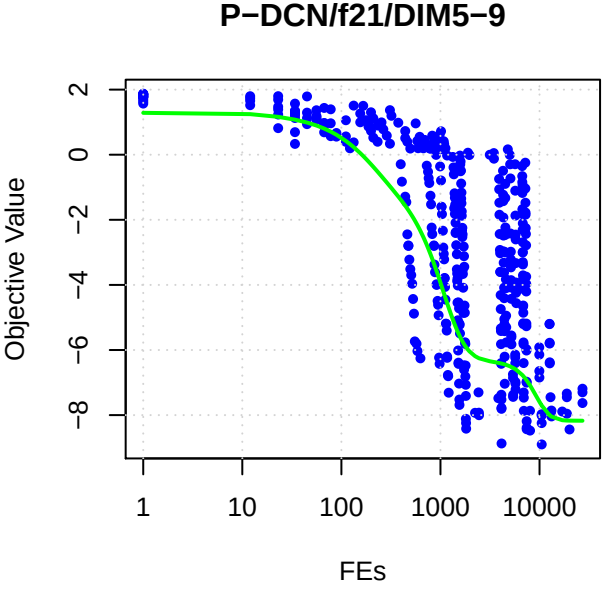
P−DCN/f21/DIM5−9
Objective Value
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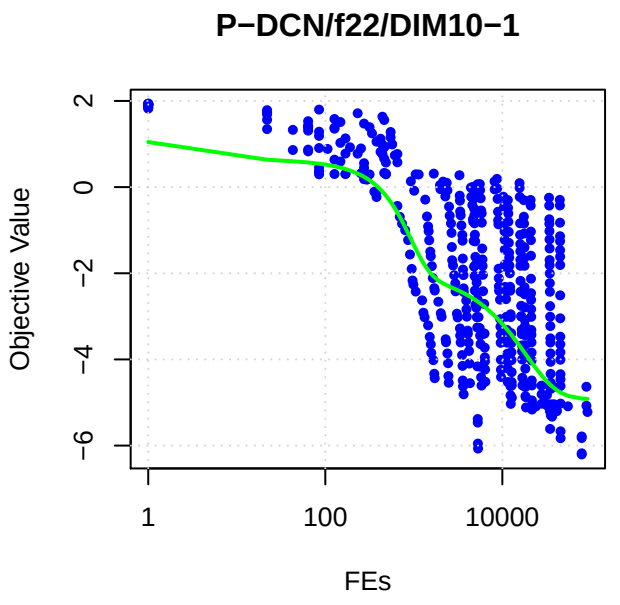
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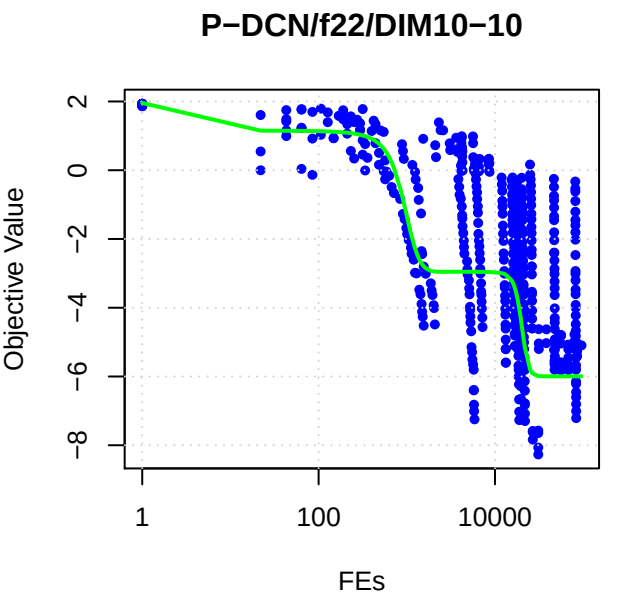
FEs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Objective Value
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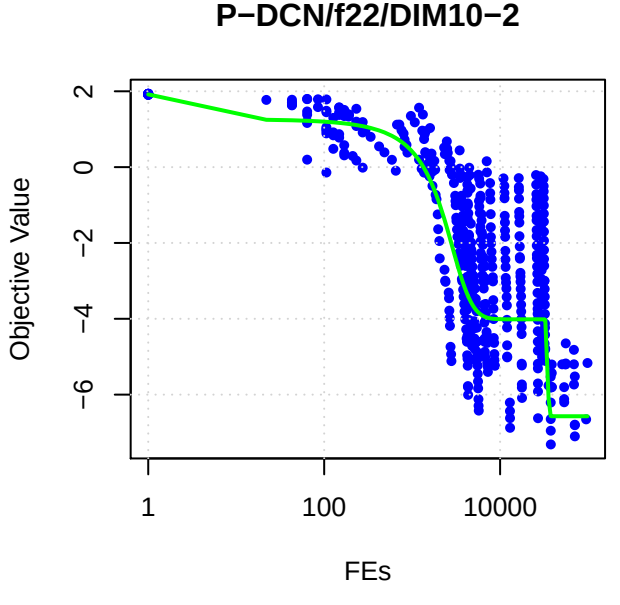
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Objective Value
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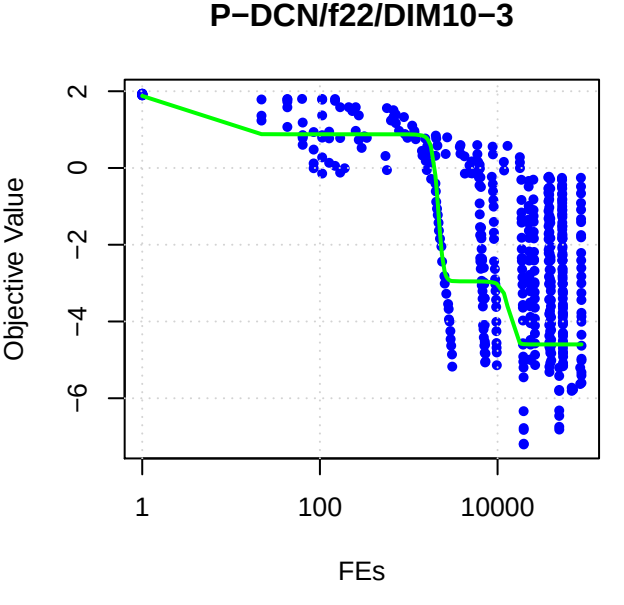
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Objective Value
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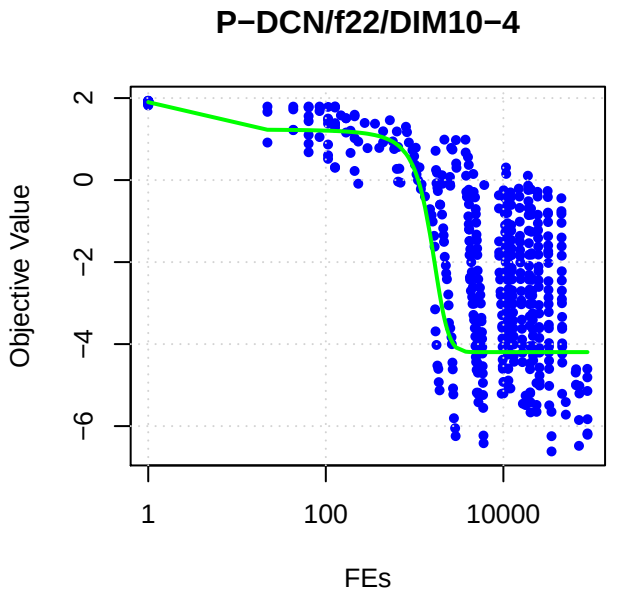
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Objective Value
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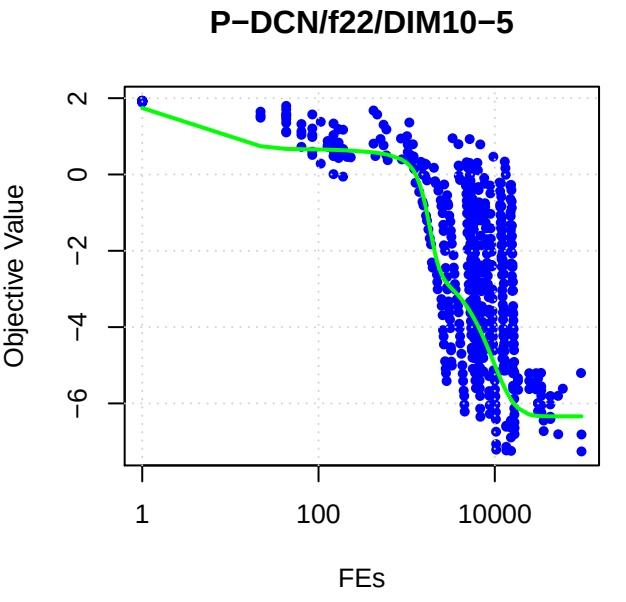
FEs


P−DCN/f22/DIM10−5
Objective Value
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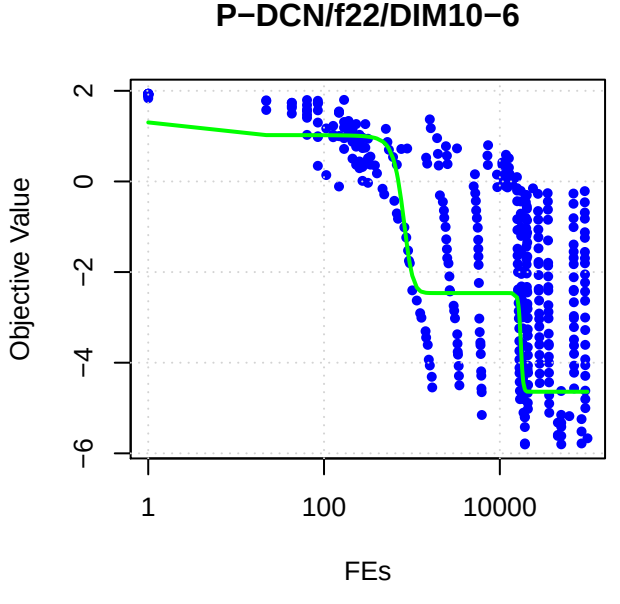
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Objective Value
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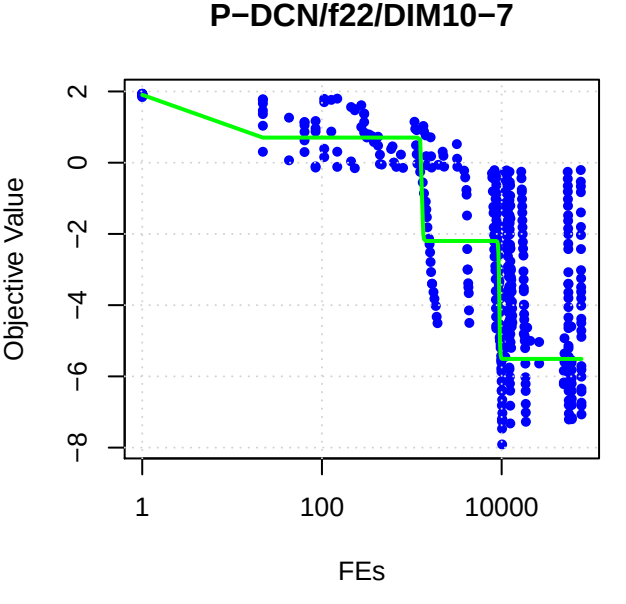
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Objective Value
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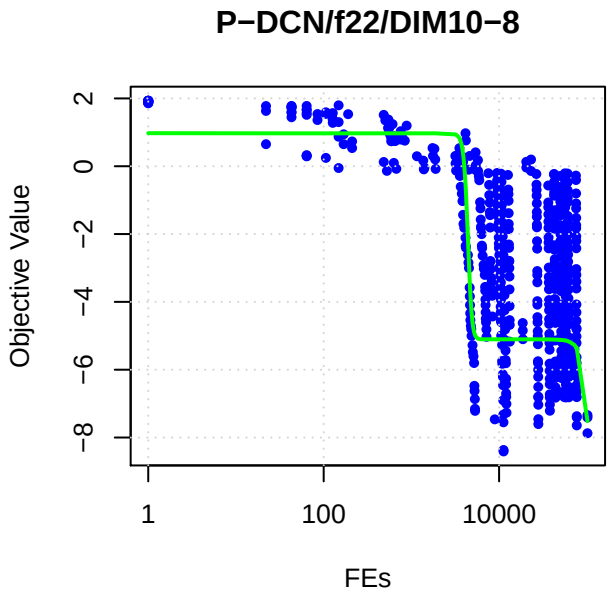
P−DCN/f22/DIM10−8
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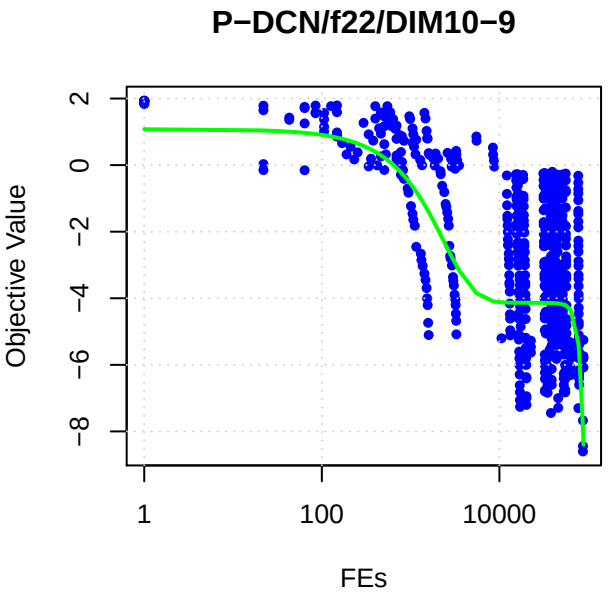
P−DCN/f22/DIM10−9
Objective Value
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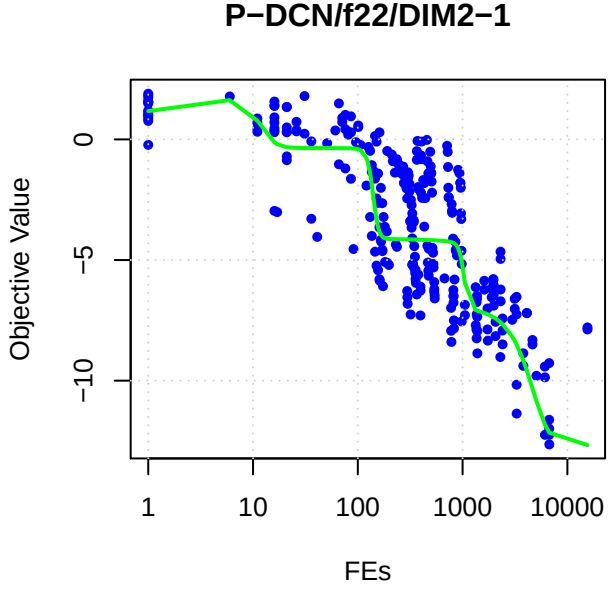
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Objective Value
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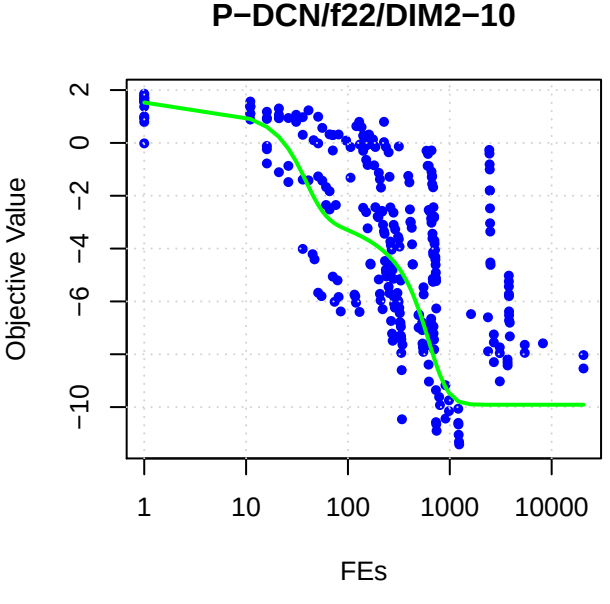
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Objective Value
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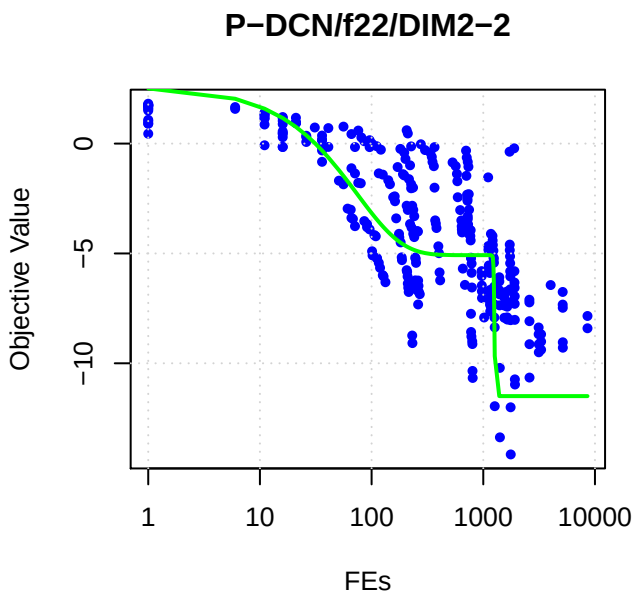
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Objective Value
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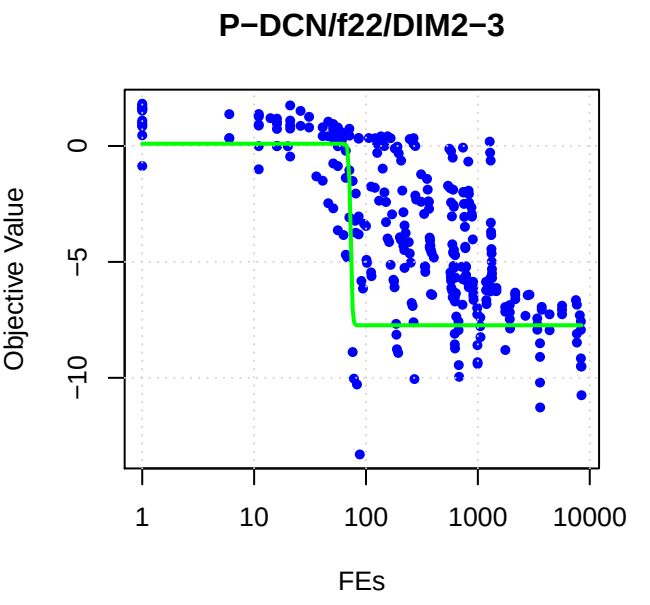
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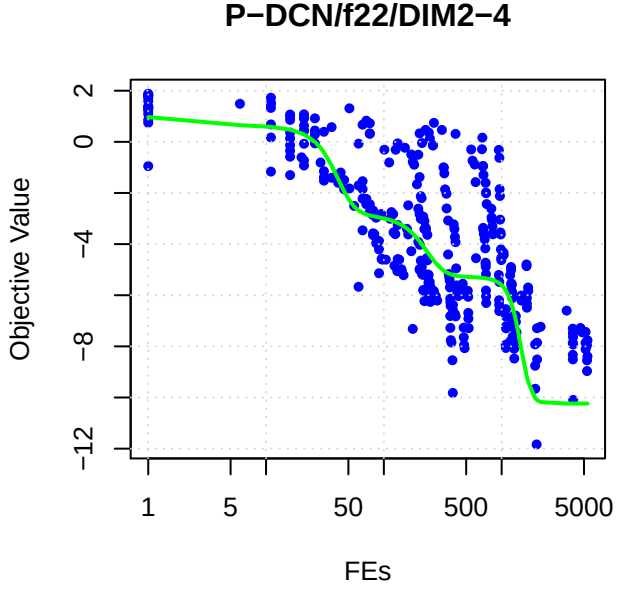
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Objective Value
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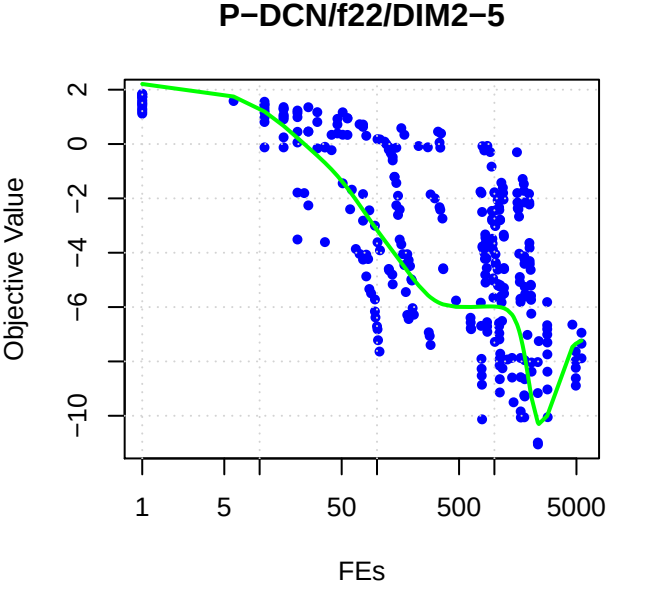
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Objective Value
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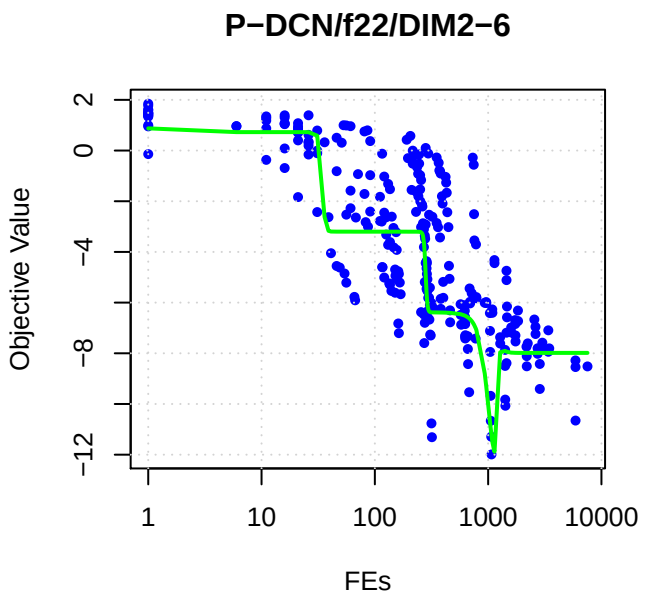
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Objective Value
FEs
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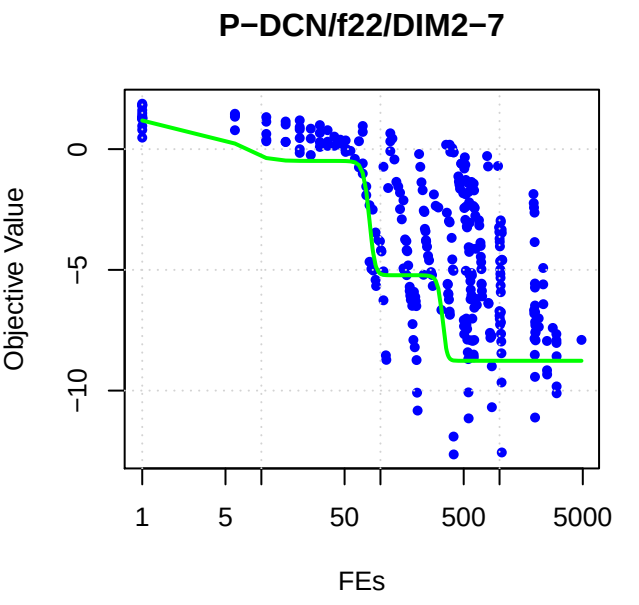
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Objective Value
FEs
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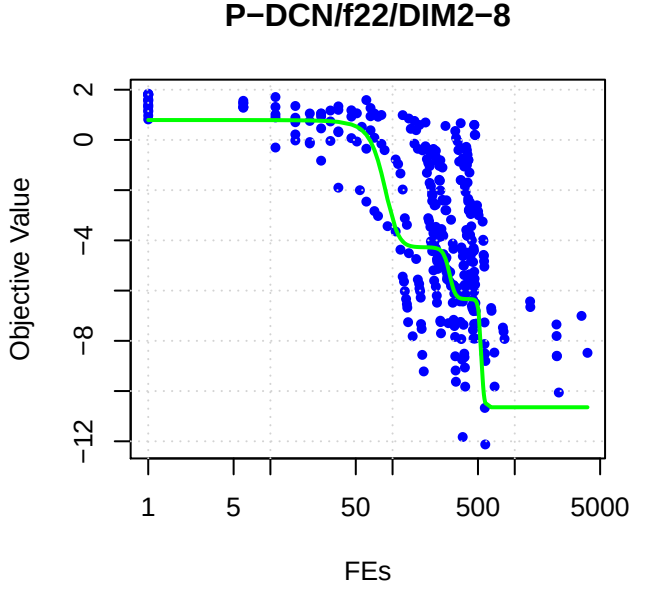
P−DCN/f22/DIM2−8
Objective Value
FEs
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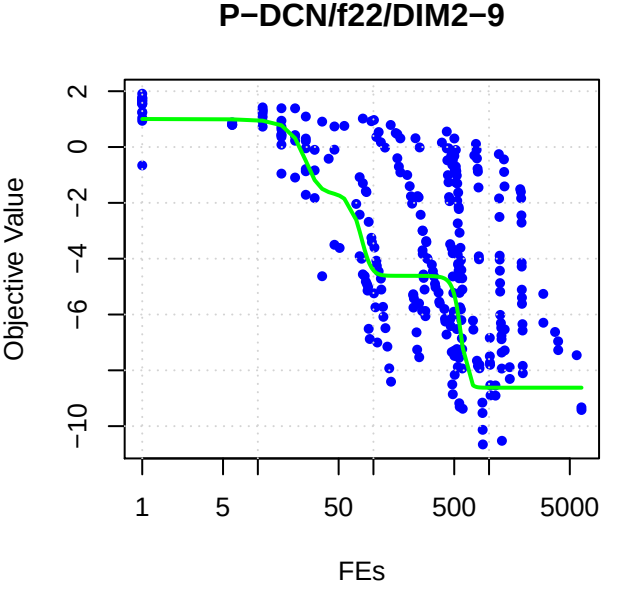
P−DCN/f22/DIM2−9
Objective Value
FEs
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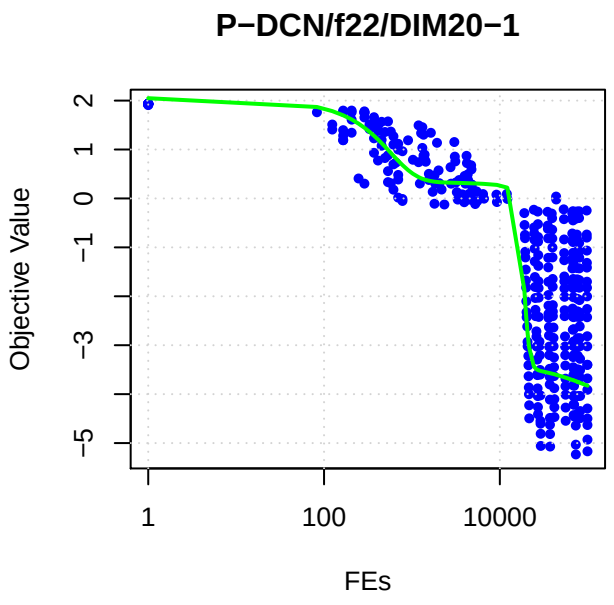
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Objective Value
FEs
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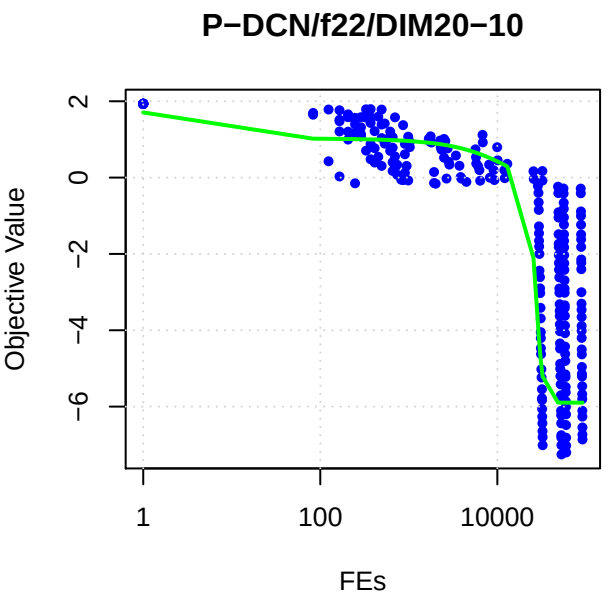
P−DCN/f22/DIM20−10
Objective Value
FEs
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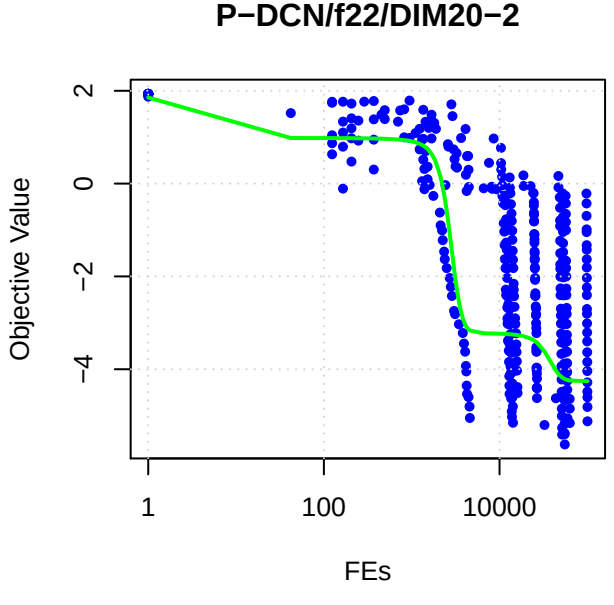
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Objective Value
FEs
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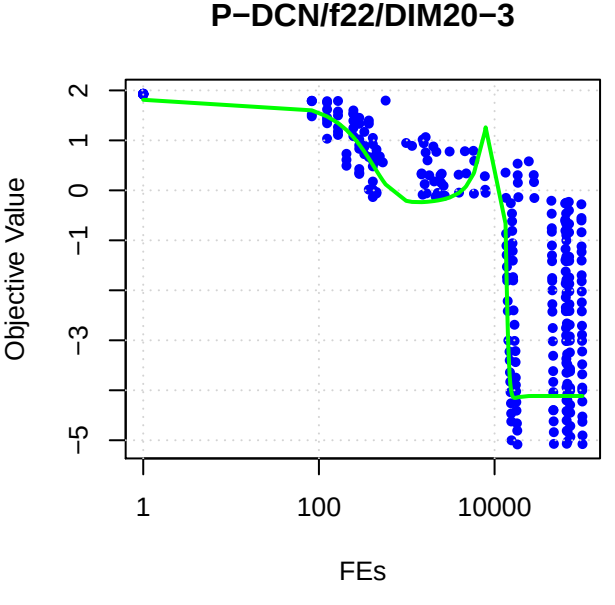
P−DCN/f22/DIM20−3
Objective Value
FEs
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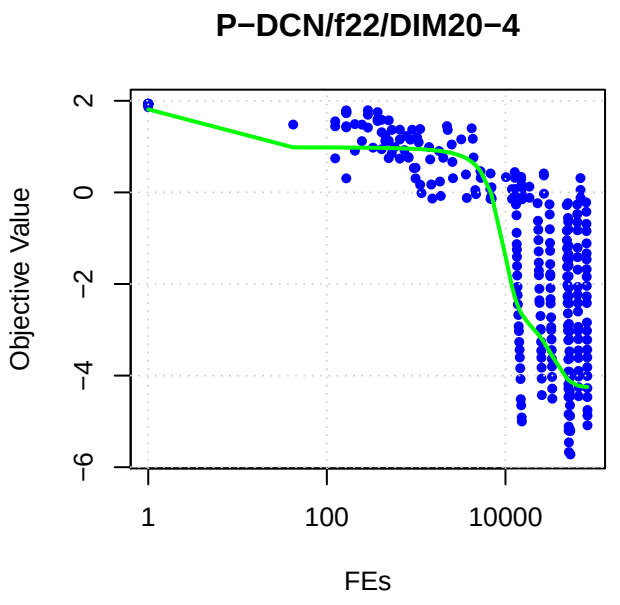
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Objective Value
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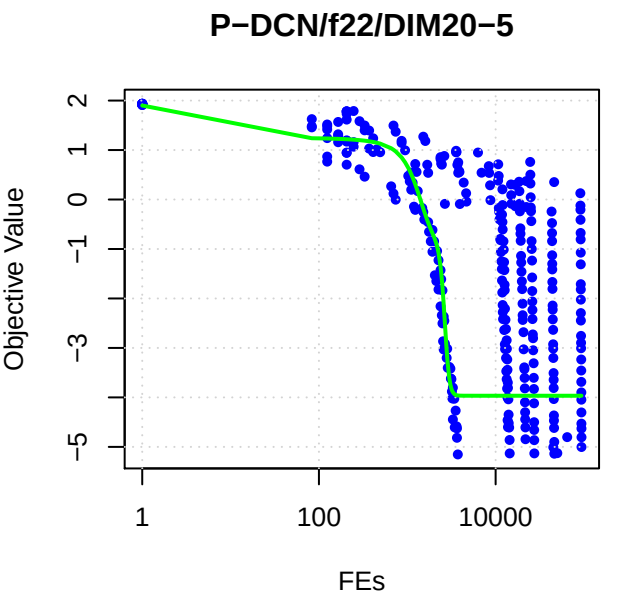
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Objective Value
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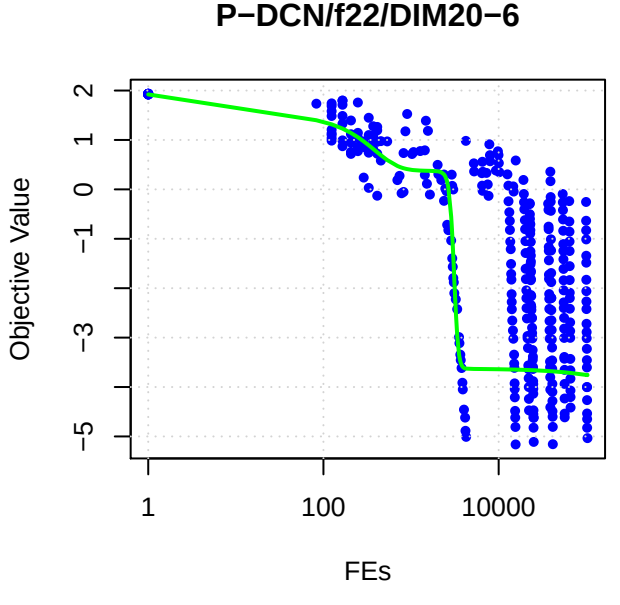
FEs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Objective Value
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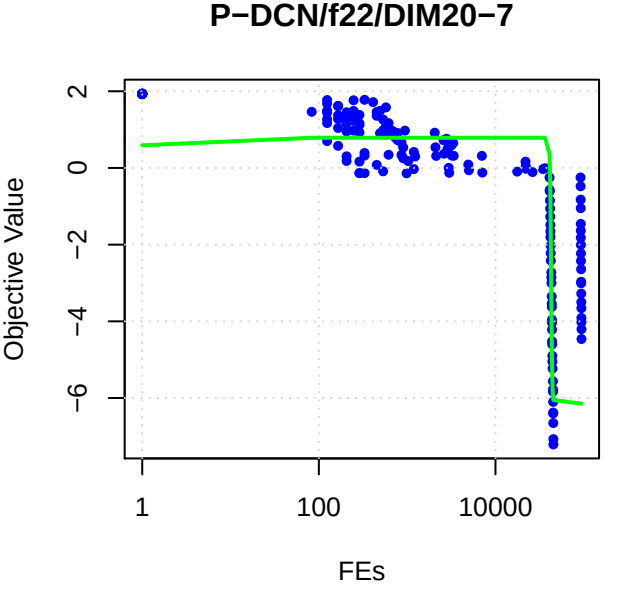
P−DCN/f22/DIM20−7
Objective Value
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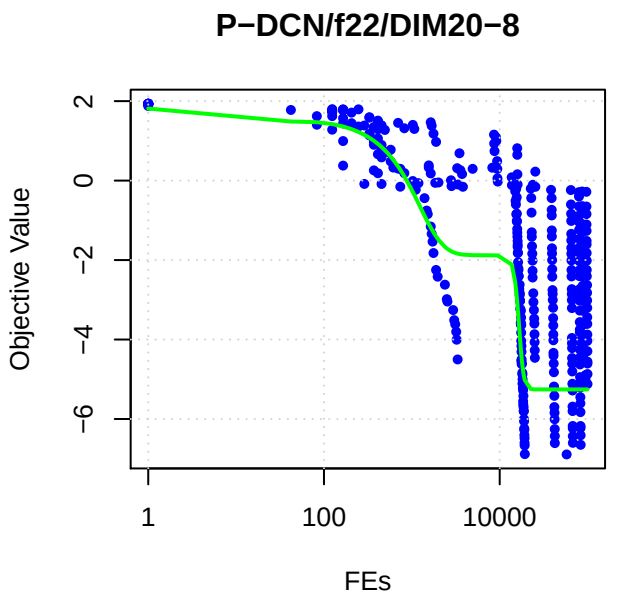
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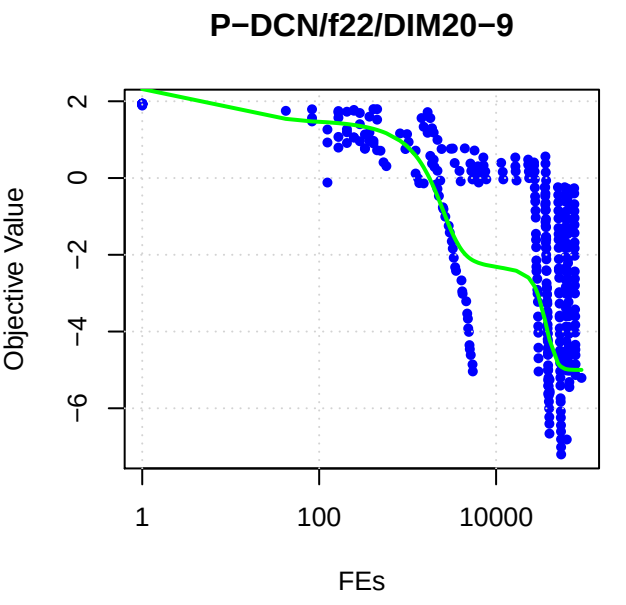
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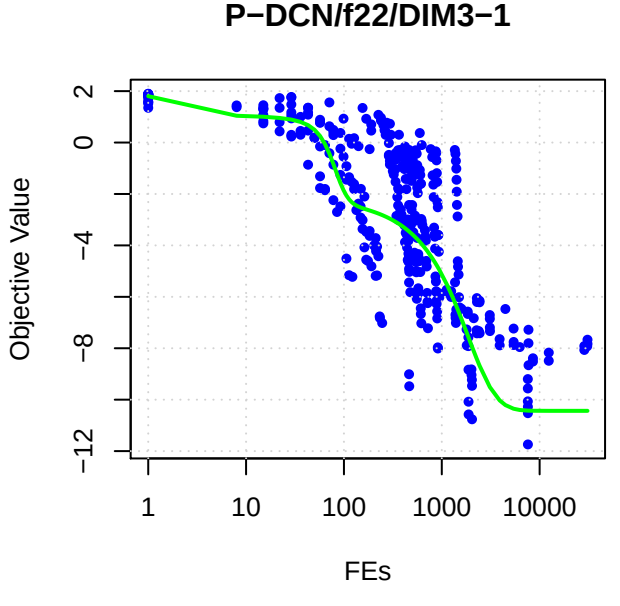
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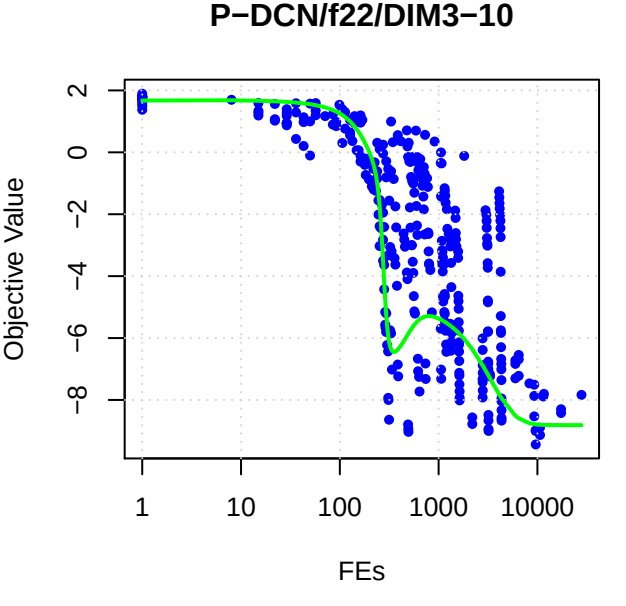
P−DCN/f22/DIM3−10
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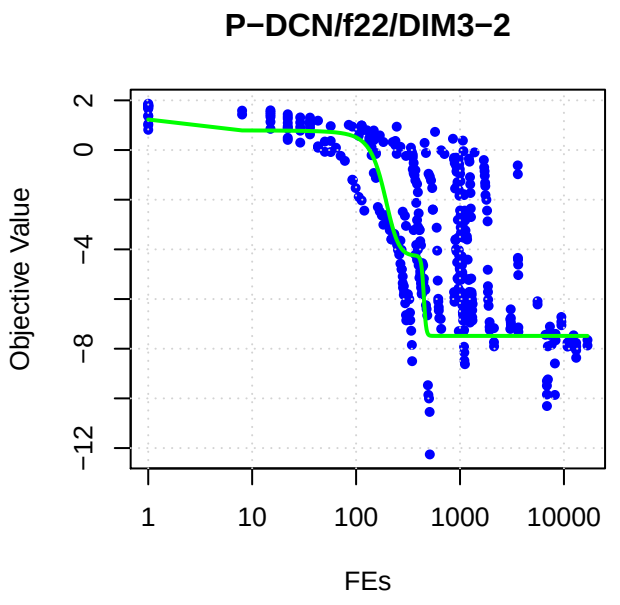
P−DCN/f22/DIM3−2
Objective Value
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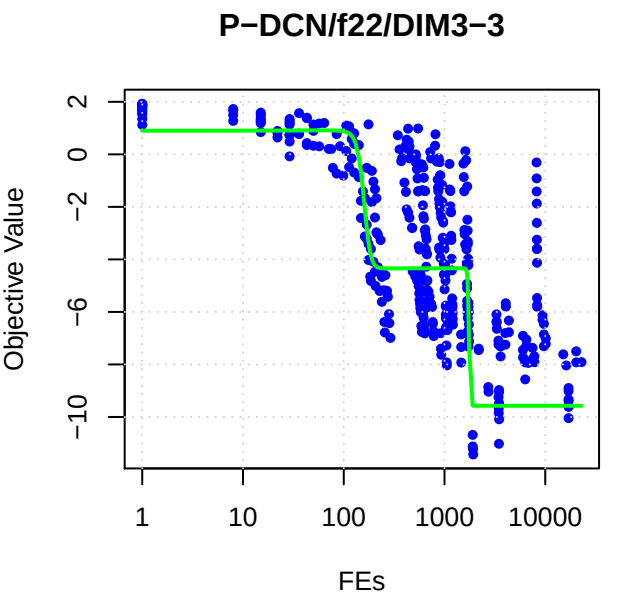
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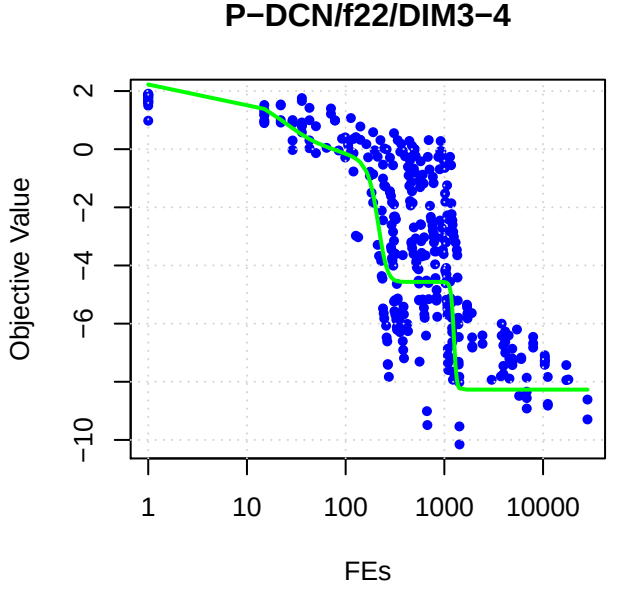
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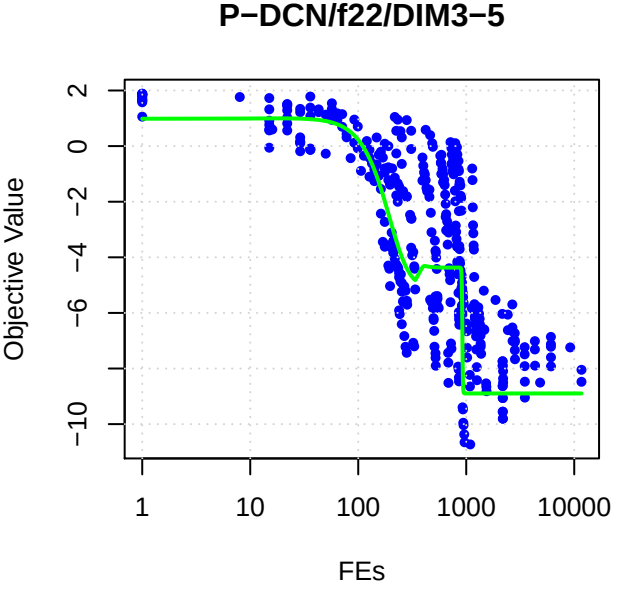
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1000
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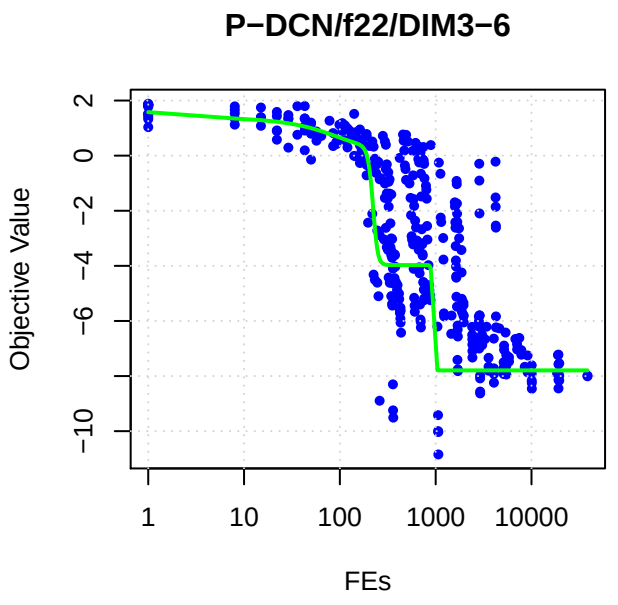
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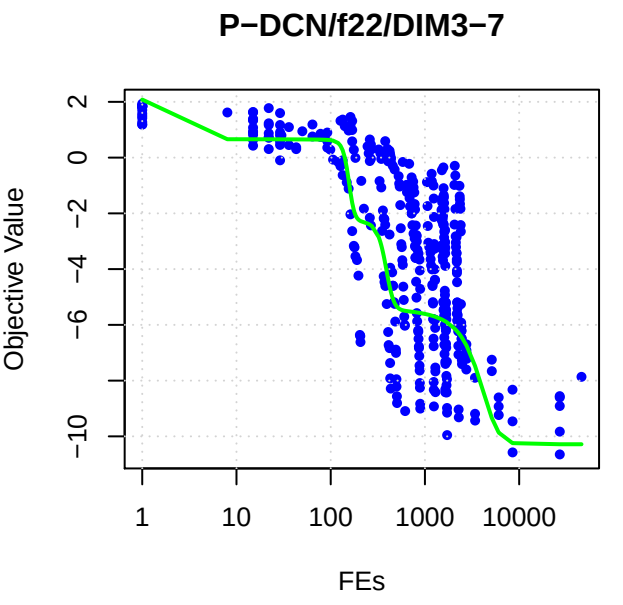
FEs


P−DCN/f22/DIM3−7
Objective Value
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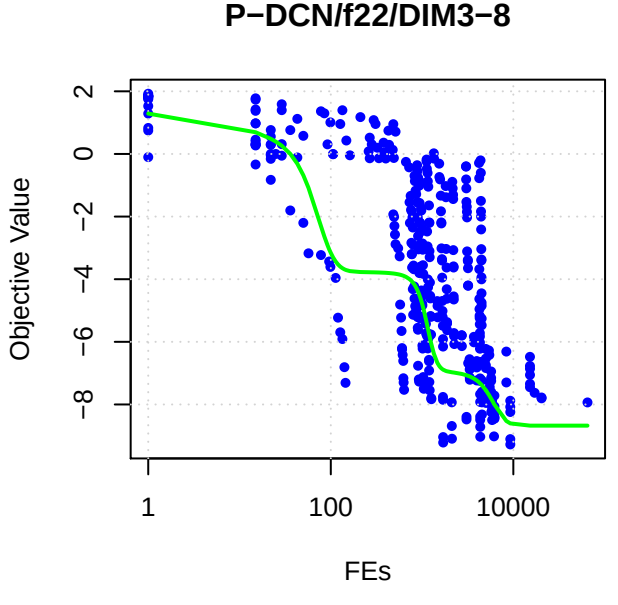
10000
FEs


P−DCN/f22/DIM3−8
Objective Value
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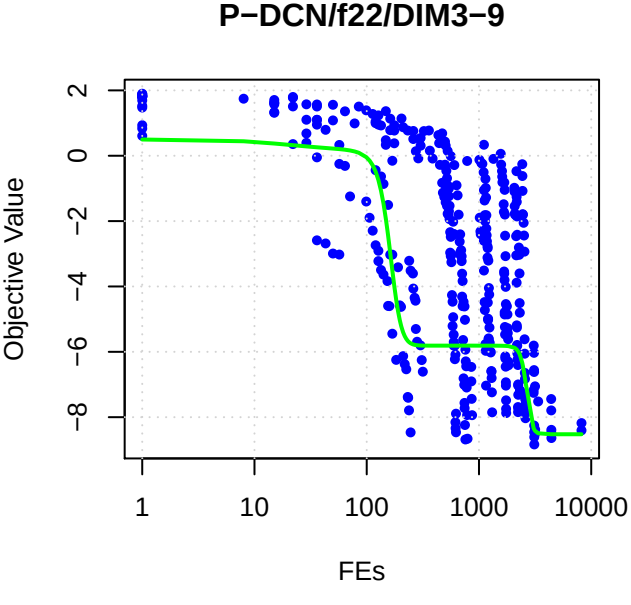
P−DCN/f22/DIM3−9
Objective Value
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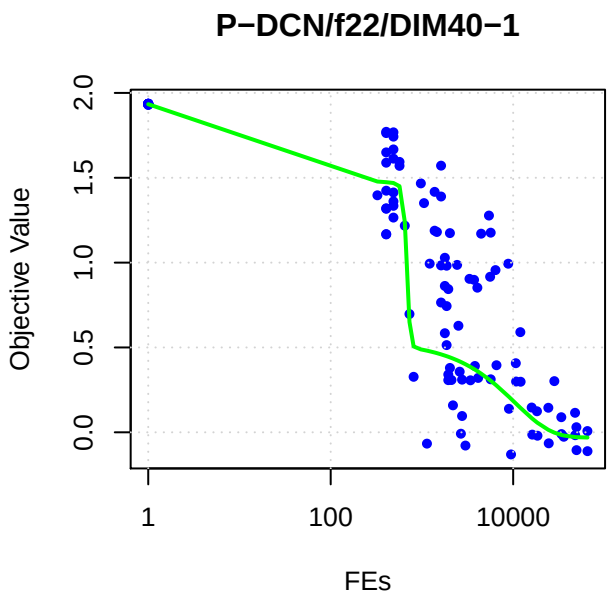
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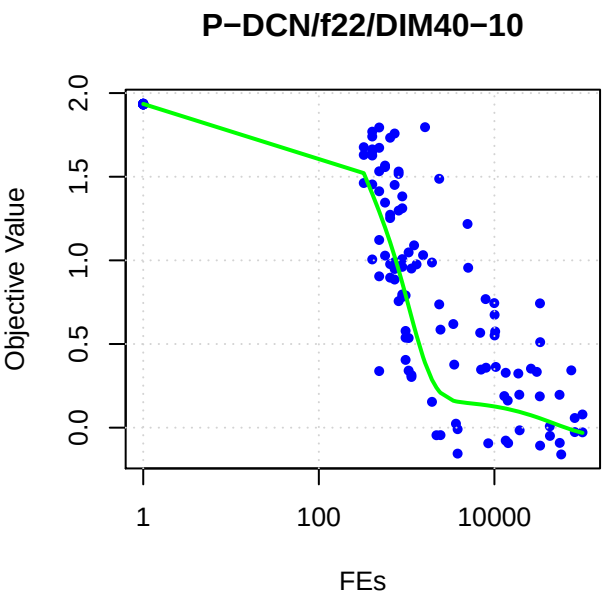
P−DCN/f22/DIM40−10
Objective Value
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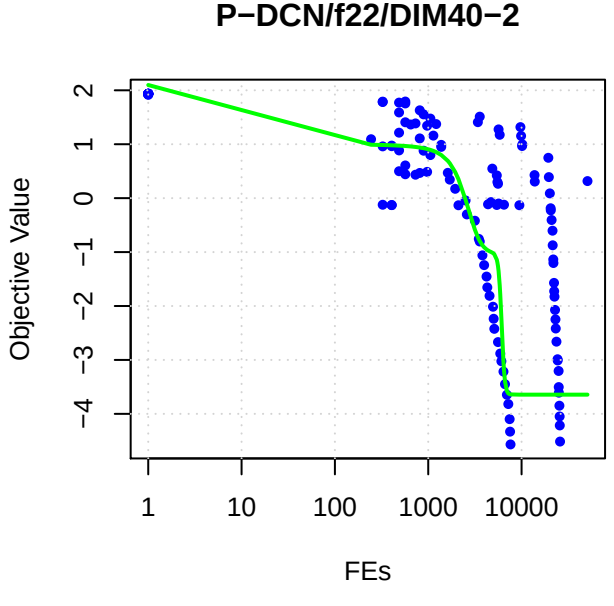
FEs


P−DCN/f22/DIM40−2
Objective Value
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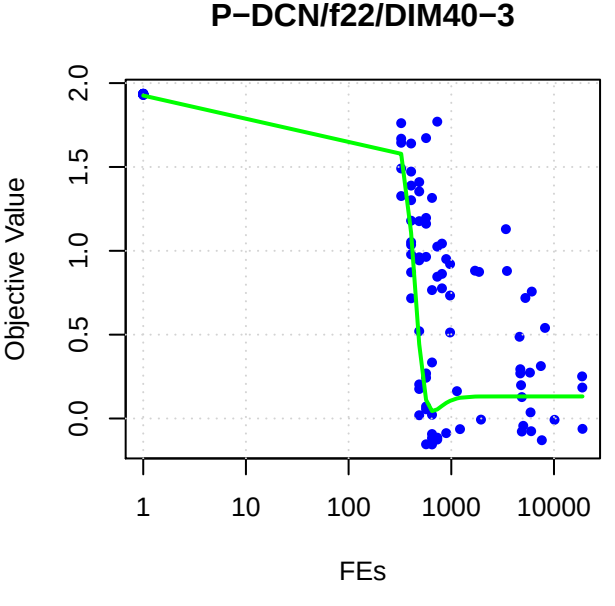
P−DCN/f22/DIM40−3
Objective Value
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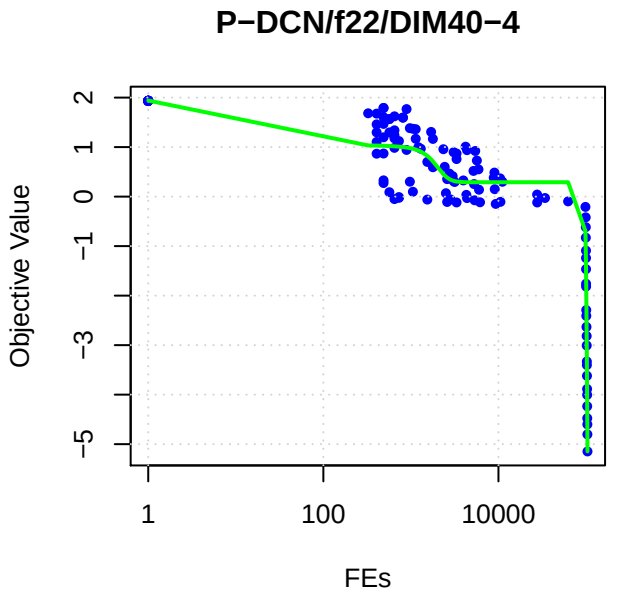
FEs


P−DCN/f22/DIM40−4
Objective Value
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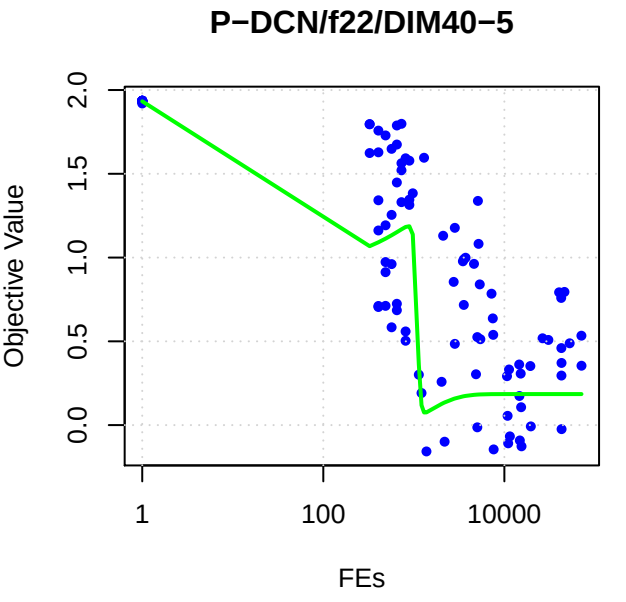
FEs


P−DCN/f22/DIM40−5
Objective Value
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1
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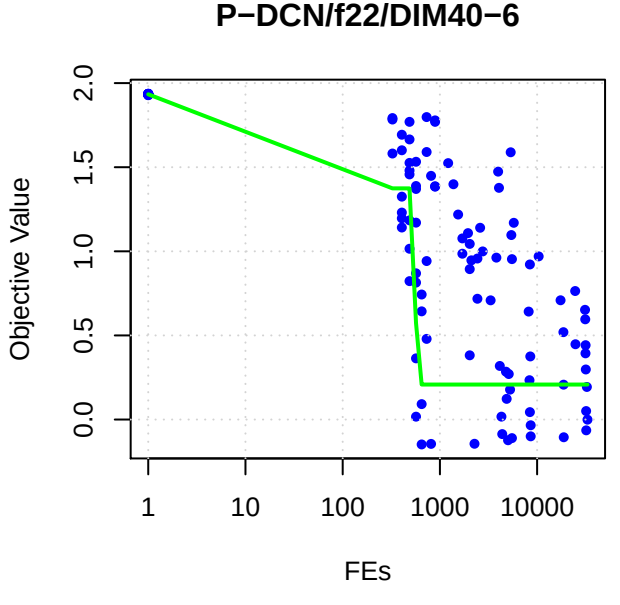
10000
FEs


P−DCN/f22/DIM40−6
Objective Value
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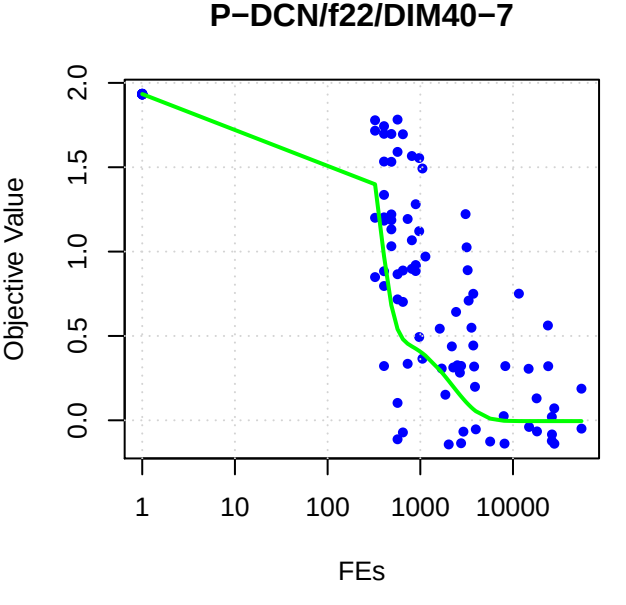
FEs


P−DCN/f22/DIM40−7
Objective Value
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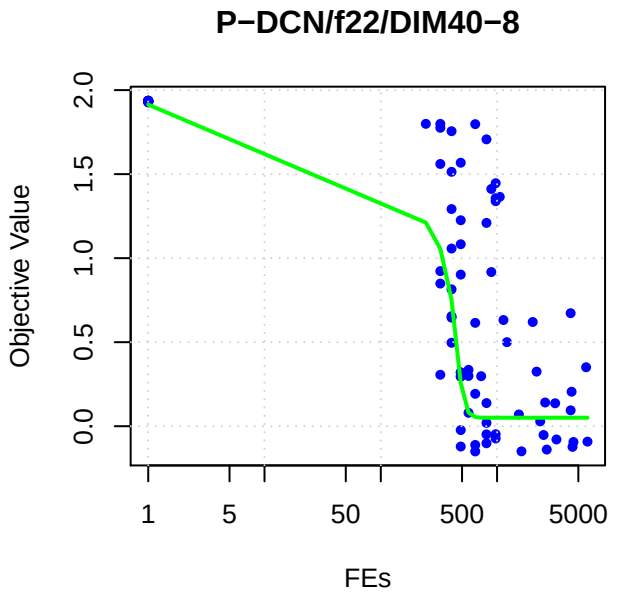
10000
FEs


P−DCN/f22/DIM40−8
Objective Value
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1.0
0.5
0.0
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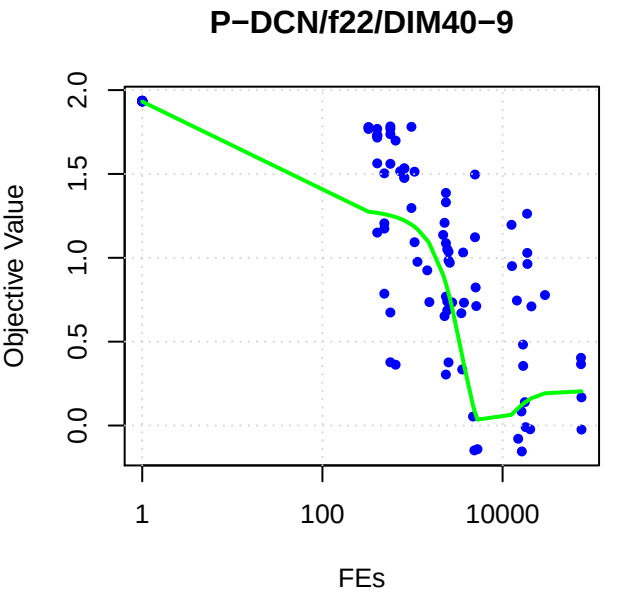
50
500
5000
FEs


P−DCN/f22/DIM40−9
Objective Value
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0.5
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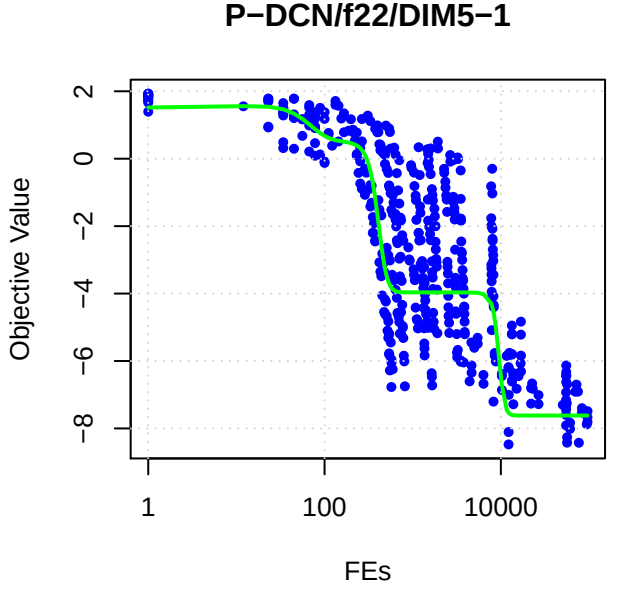
10000
FEs


P−DCN/f22/DIM5−1
Objective Value
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−2
−4
−6
−8
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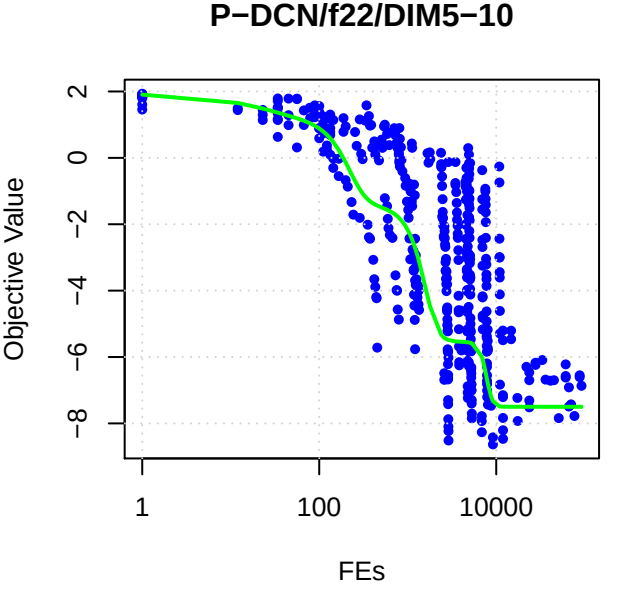
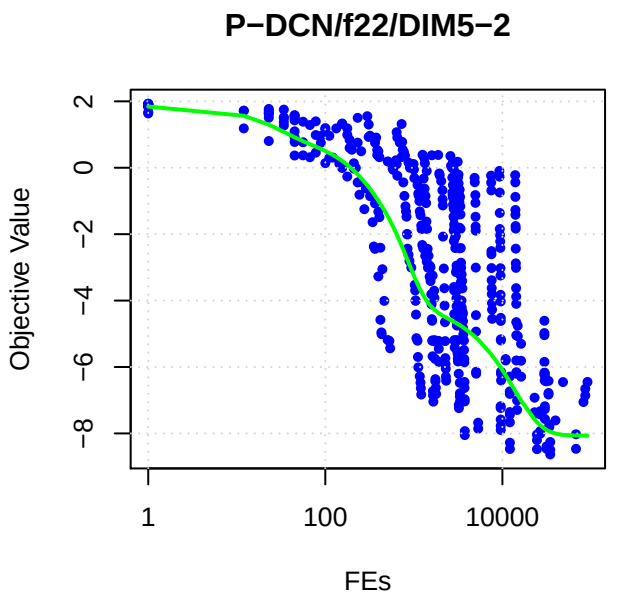
100
10000
FEs


P−DCN/f22/DIM5−10
Objective Value
2
0
−2
−4
−6
−8
1
100
10000
FEs


P−DCN/f22/DIM5−2
Objective Value
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0
−2
−4
−6
−8
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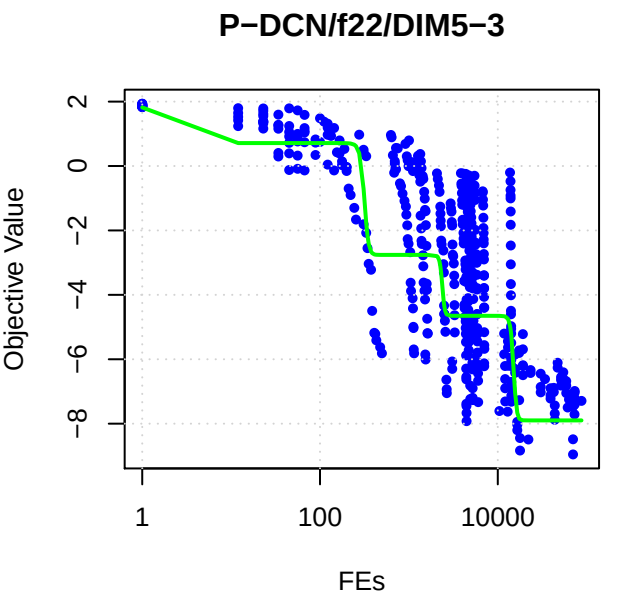
10000
FEs


P−DCN/f22/DIM5−3
Objective Value
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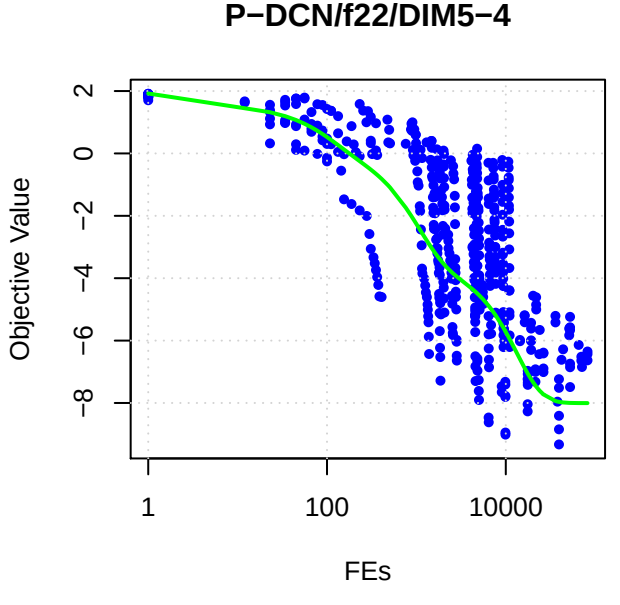
0
−2
−4
−6
−8
1
100
10000
FEs


P−DCN/f22/DIM5−4
Objective Value
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0
−2
−4
−6
−8
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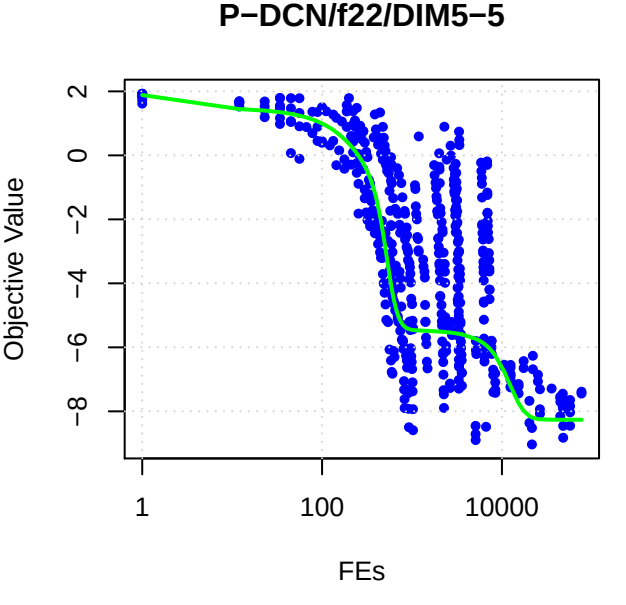
100
10000
FEs


P−DCN/f22/DIM5−5
Objective Value
2
0
−2
−4
−6
−8
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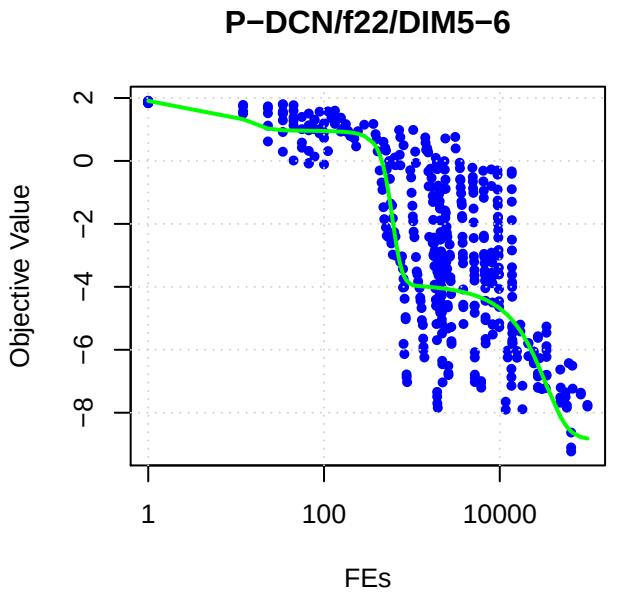
100
10000
FEs


P−DCN/f22/DIM5−6
Objective Value
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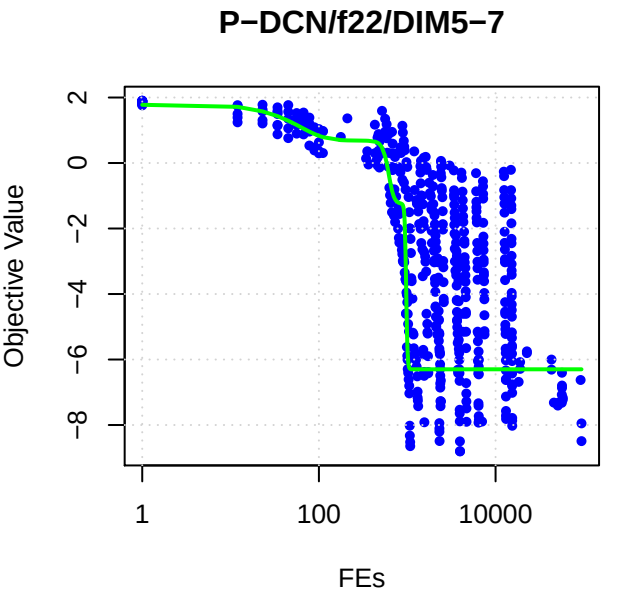
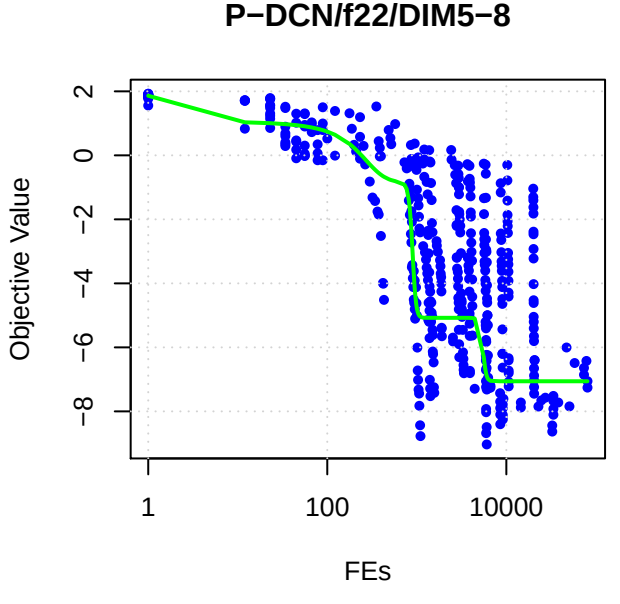
0
−2
−4
−6
−8
1
100
10000
FEs


P−DCN/f22/DIM5−7
Objective Value
2
0
−2
−4
−6
−8
1
100
10000
FEs


P−DCN/f22/DIM5−8
Objective Value
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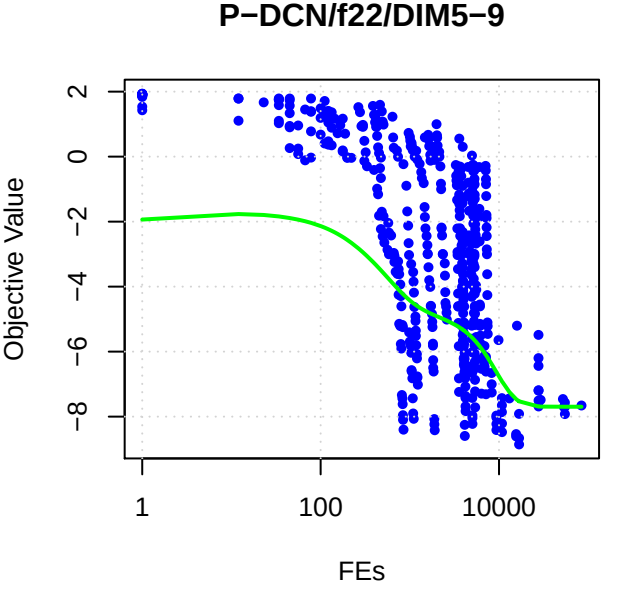
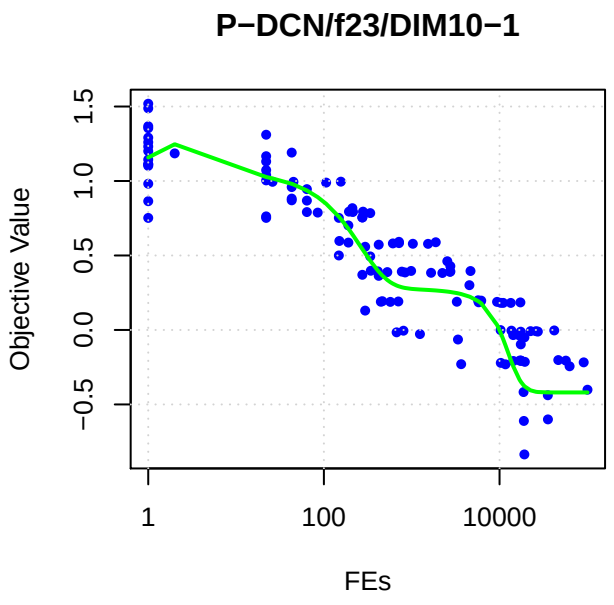
0
−2
−4
−6
−8
1
100
10000
FEs


P−DCN/f22/DIM5−9
Objective Value
2
0
−2
−4
−6
−8
1
100
10000
FEs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Objective Value
FEs
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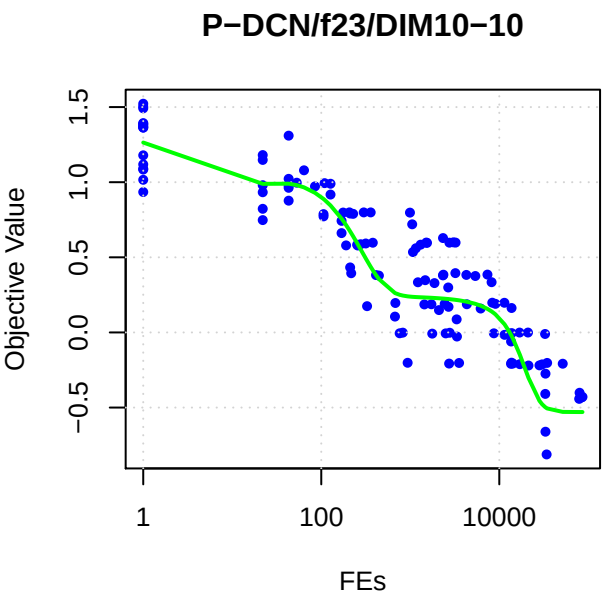
1.0
0.5
0.0
−0.5
1
100
10000


P−DCN/f23/DIM10−10
Objective Value
FEs
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1.0
0.5
0.0
−0.5
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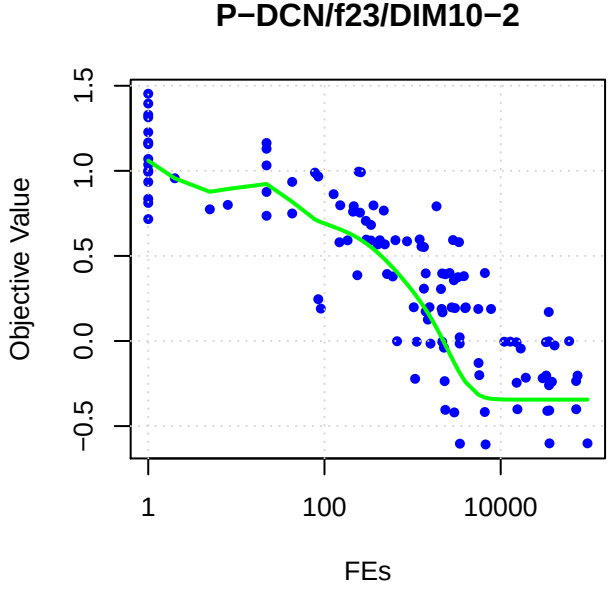
100
10000


P−DCN/f23/DIM10−2
Objective Value
FEs
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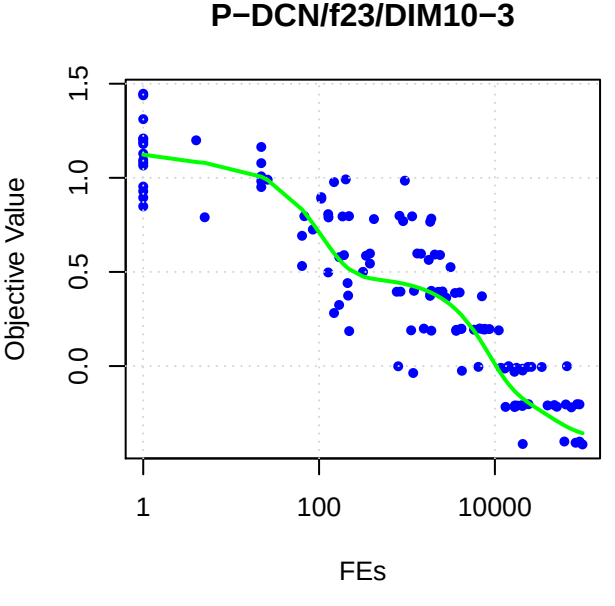
P−DCN/f23/DIM10−3
Objective Value
FEs
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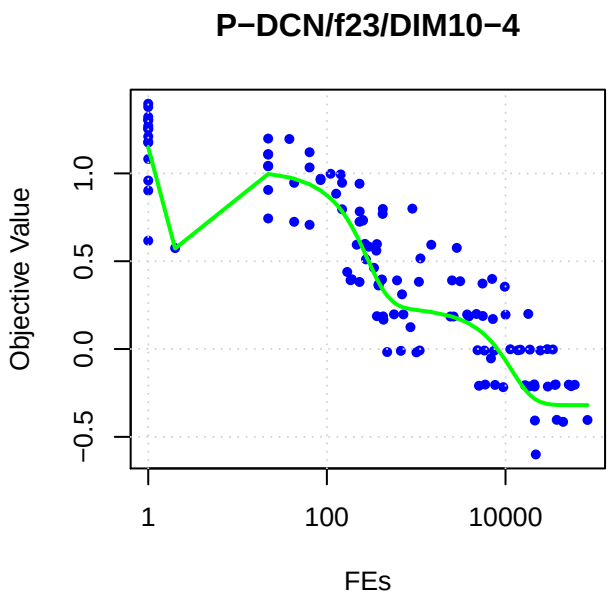
1.0
0.5
0.0
1
100
10000


P−DCN/f23/DIM10−4
Objective Value
−0.5
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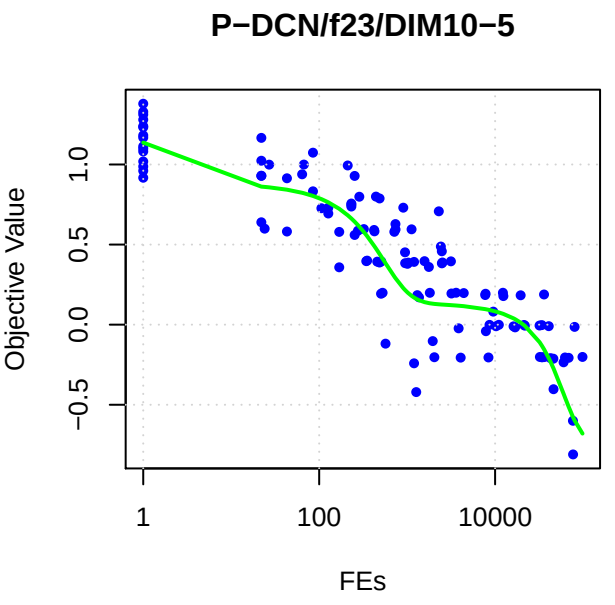
0.5
1.0
1
100
10000
FEs


P−DCN/f23/DIM10−5
Objective Value
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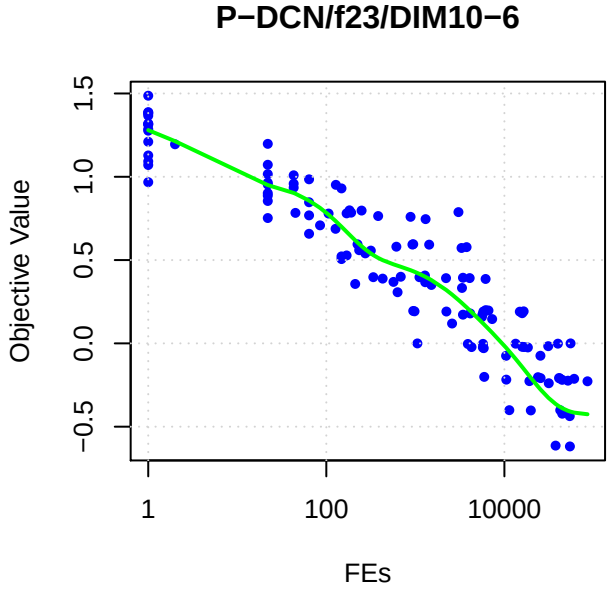
0.0
0.5
1.0
1
100
10000
FEs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Objective Value
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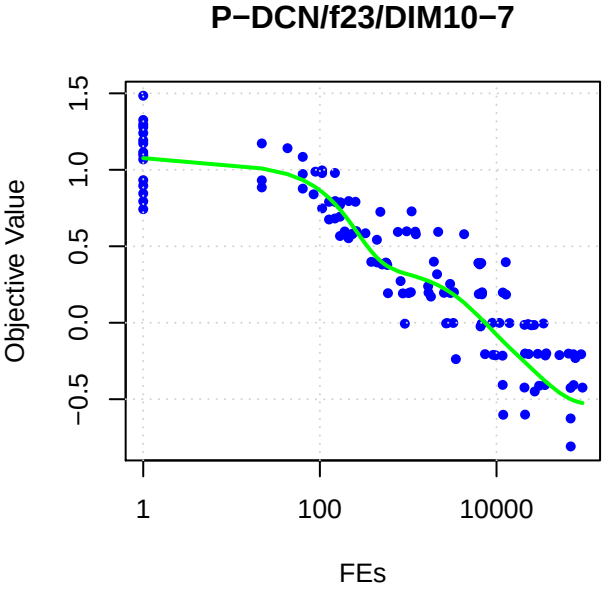
10000
FEs


P−DCN/f23/DIM10−7
Objective Value
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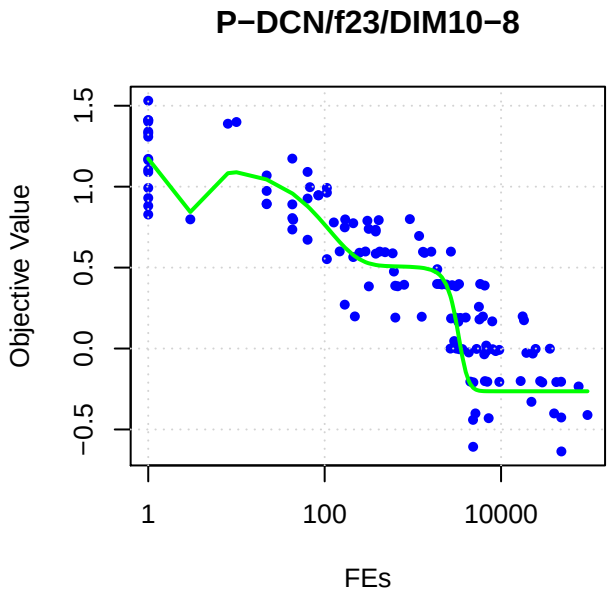
0.5
1.0
1.5
1
100
10000
FEs


P−DCN/f23/DIM10−8
Objective Value
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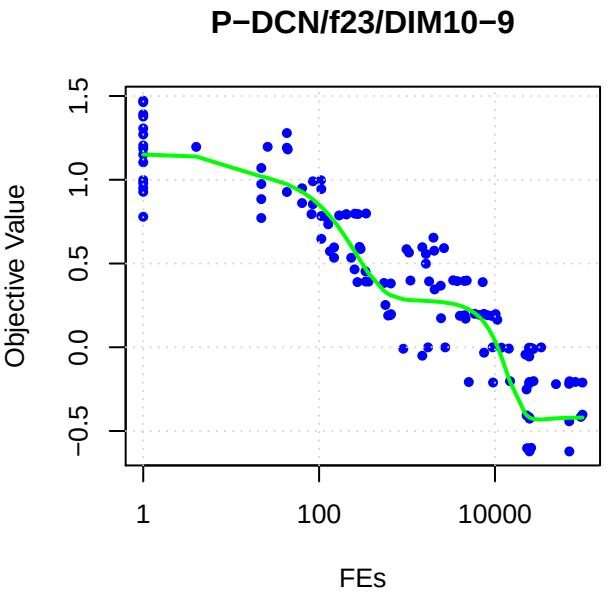
1.0
0.5
0.0
−0.5
1
100
10000
FEs


P−DCN/f23/DIM10−9
Objective Value
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0.0
−0.5
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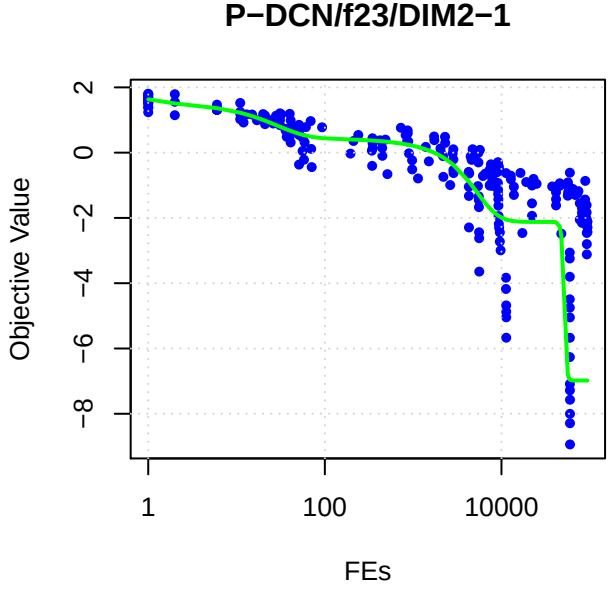
100
10000
FEs


P−DCN/f23/DIM2−1
Objective Value
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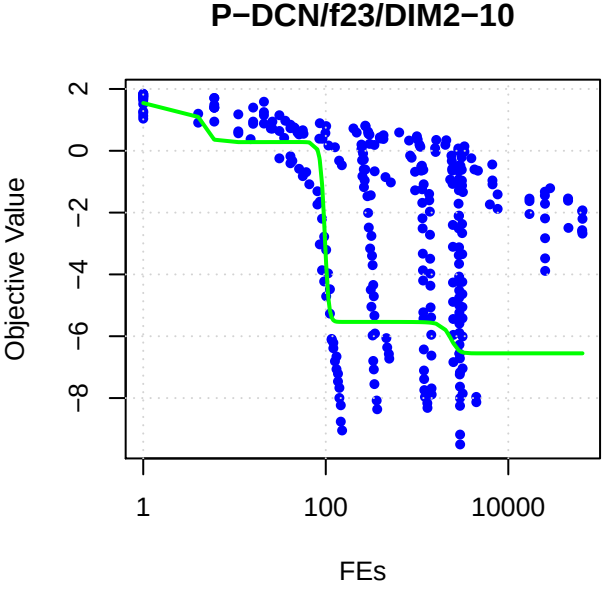
0
−2
−4
−6
−8
1
100
10000
FEs


P−DCN/f23/DIM2−10
Objective Value
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−2
−4
−6
−8
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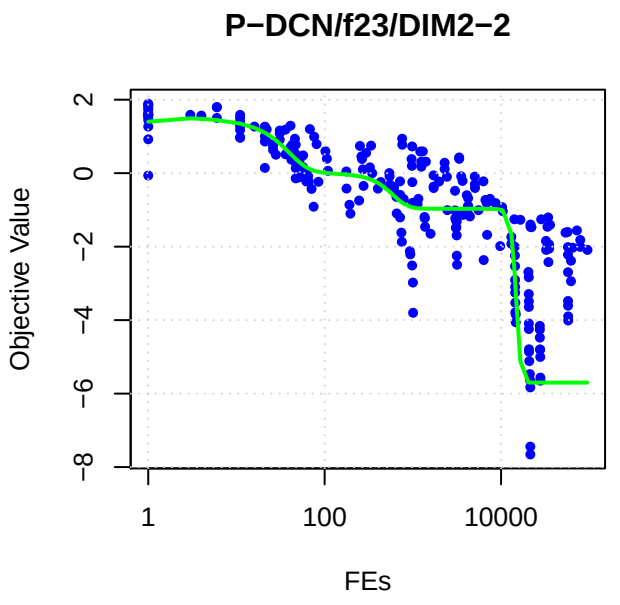
100
10000
FEs


P−DCN/f23/DIM2−2
Objective Value
FEs
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−2
−4
−6
−8
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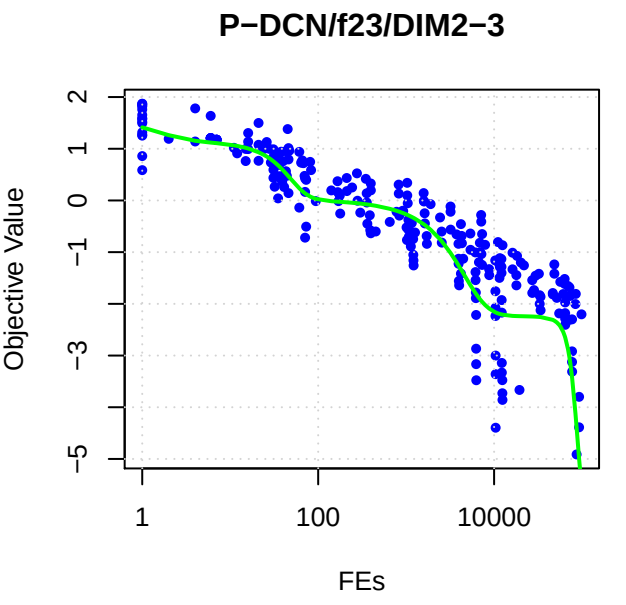
P−DCN/f23/DIM2−3
Objective Value
FEs
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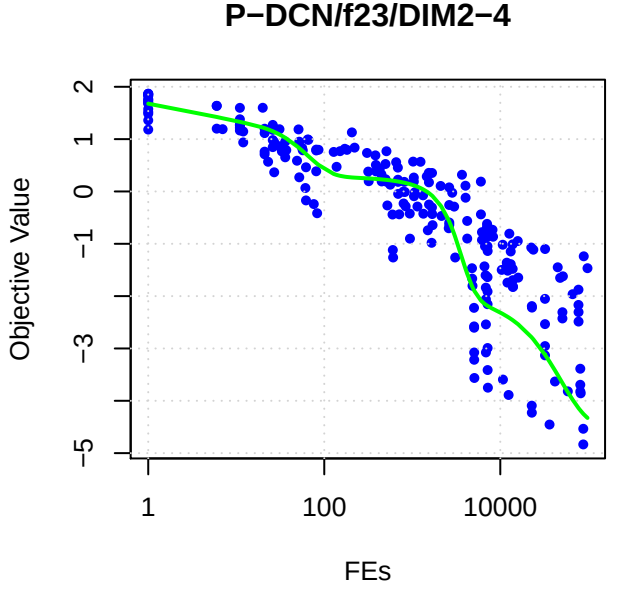
−1
−3
−5
1
100
10000


P−DCN/f23/DIM2−4
Objective Value
FEs
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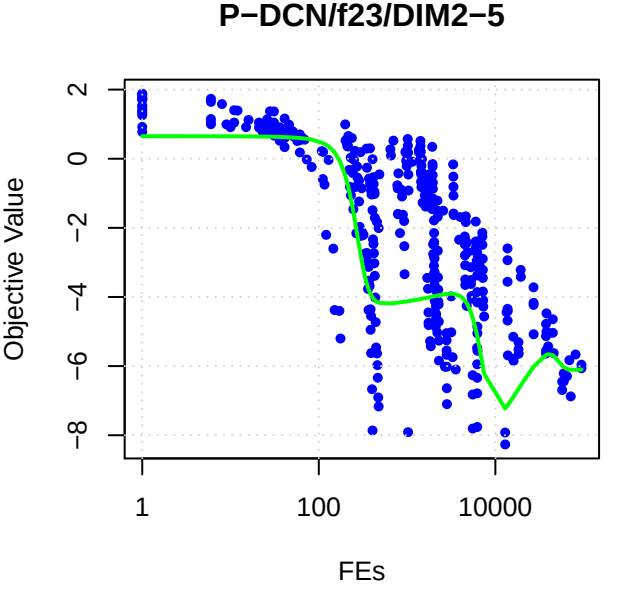
10000


P−DCN/f23/DIM2−5
Objective Value
FEs
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−6
−8
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100
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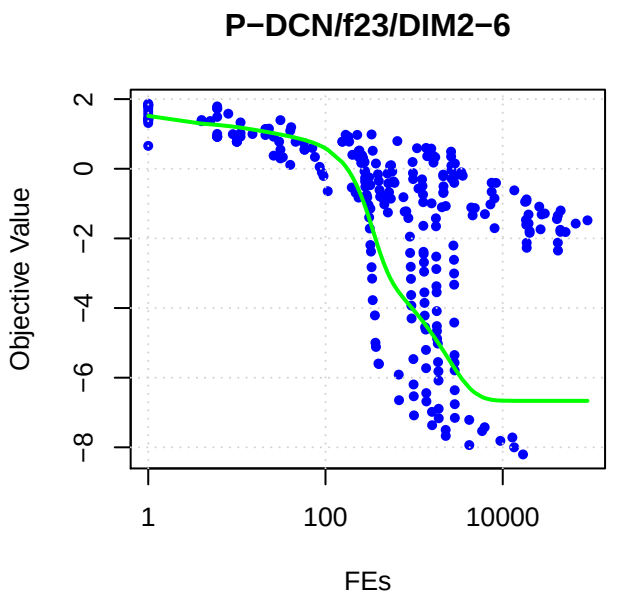
P−DCN/f23/DIM2−6
Objective Value
FEs
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−4
−6
−8
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100
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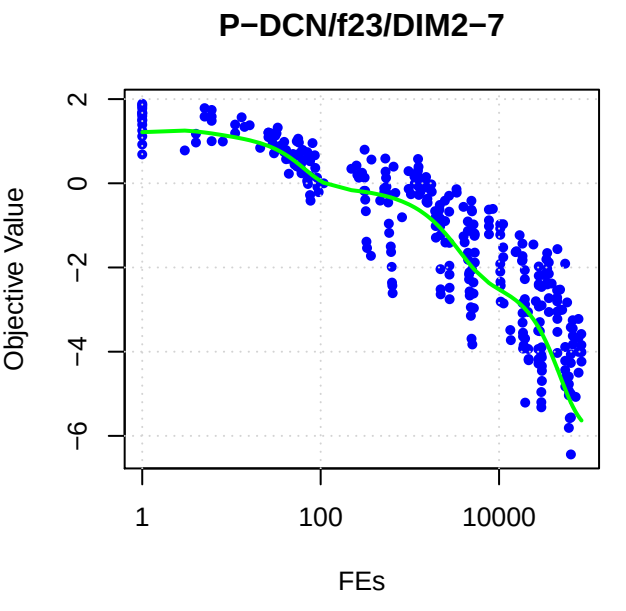
P−DCN/f23/DIM2−7
Objective Value
FEs
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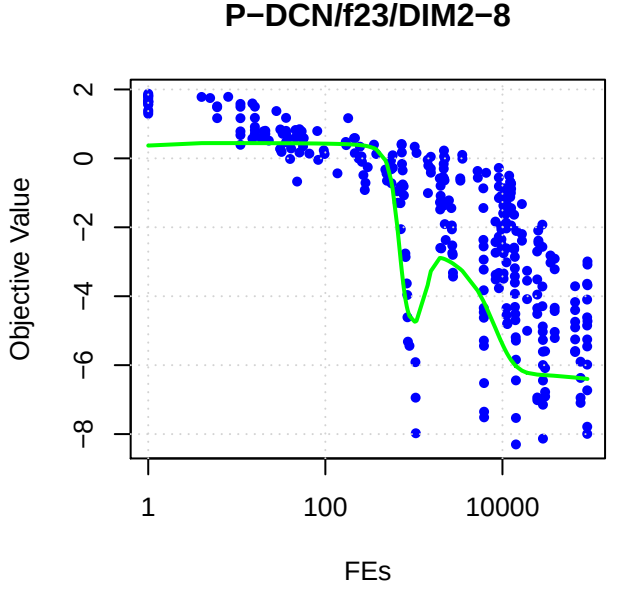
P−DCN/f23/DIM2−8
Objective Value
FEs
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−6
−8
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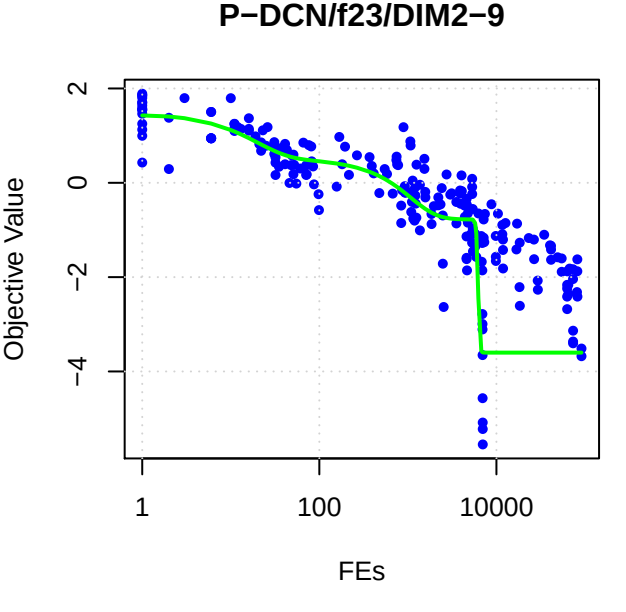
P−DCN/f23/DIM2−9
Objective Value
FEs
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−4
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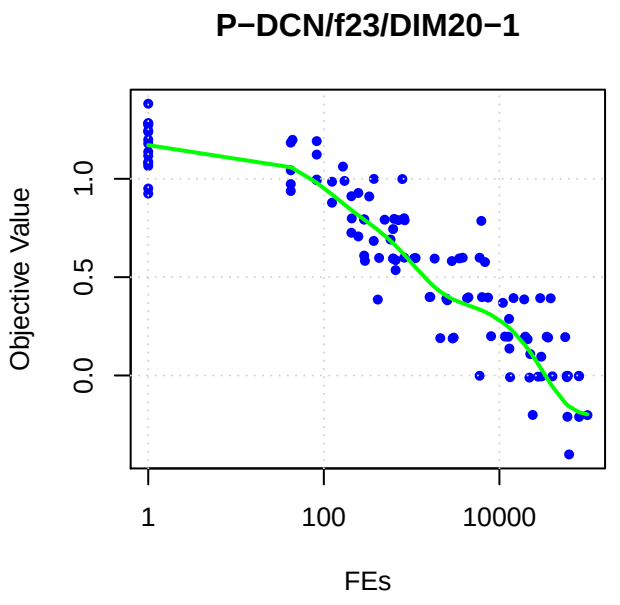
10000


P−DCN/f23/DIM20−1
Objective Value
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1.0
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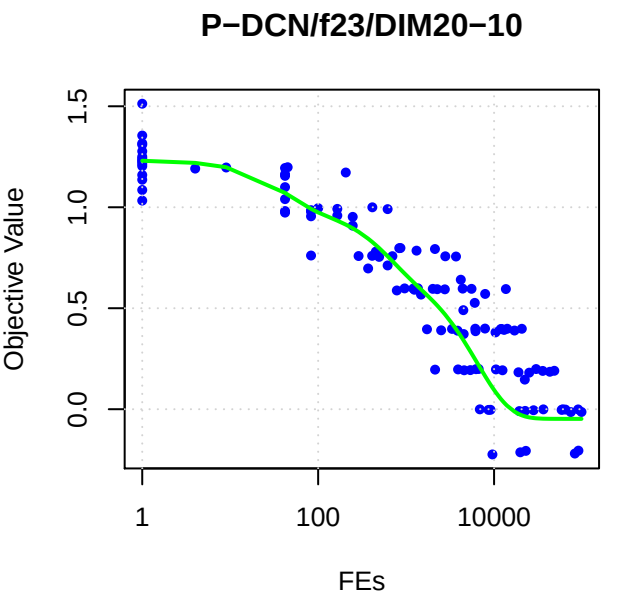
FEs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Objective Value
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1.0
1.5
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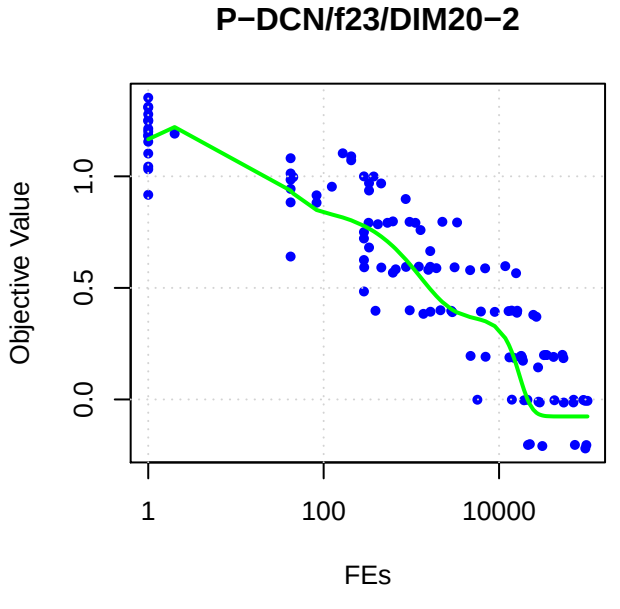
10000
FEs


P−DCN/f23/DIM20−2
Objective Value
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1.0
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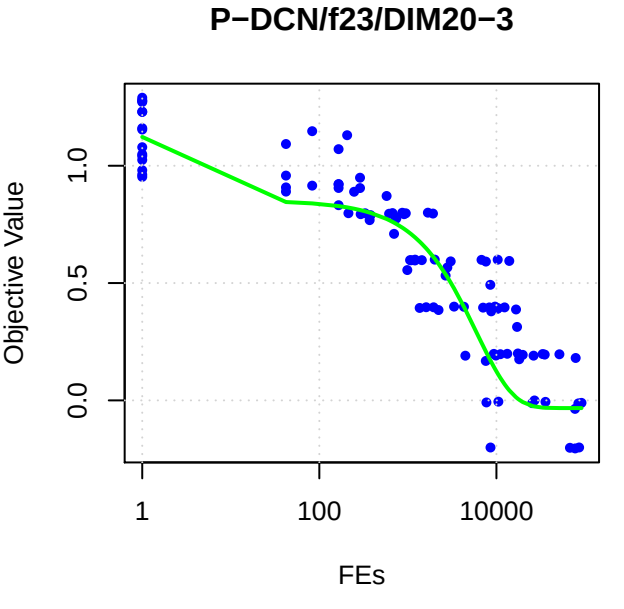
FEs


P−DCN/f23/DIM20−3
Objective Value
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1.0
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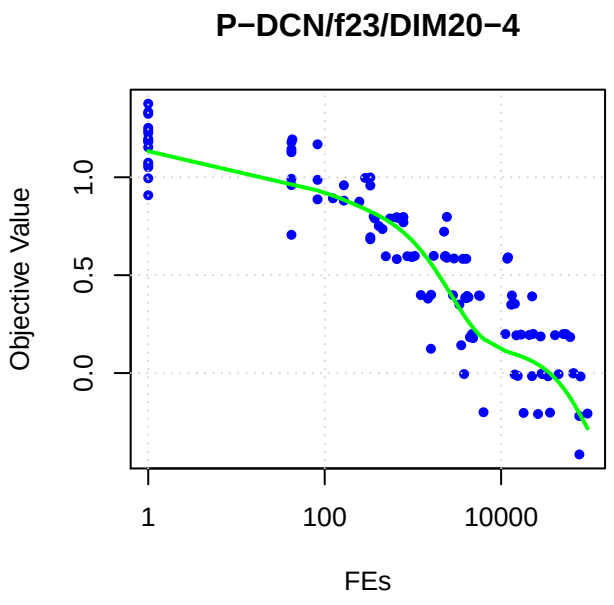
10000
FEs


P−DCN/f23/DIM20−4
Objective Value
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1.0
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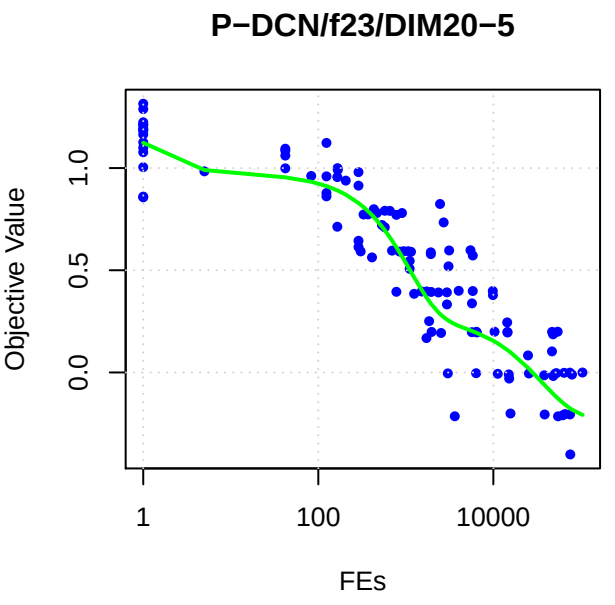
100
10000
FEs


P−DCN/f23/DIM20−5
Objective Value
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1.0
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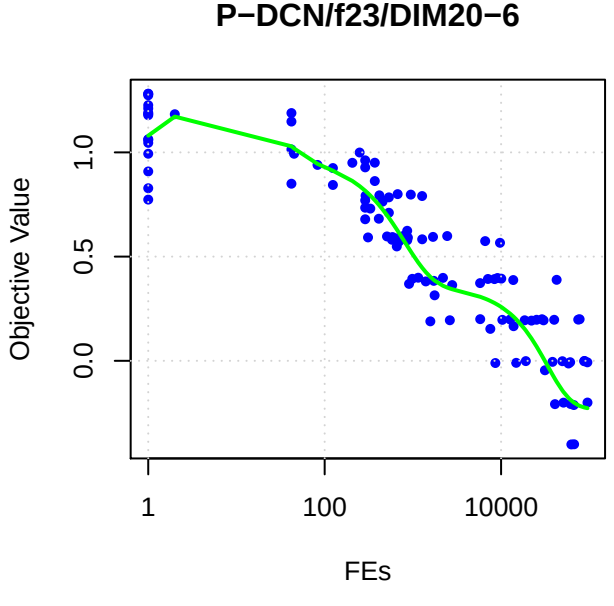
10000
FEs


P−DCN/f23/DIM20−6
Objective Value
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1.0
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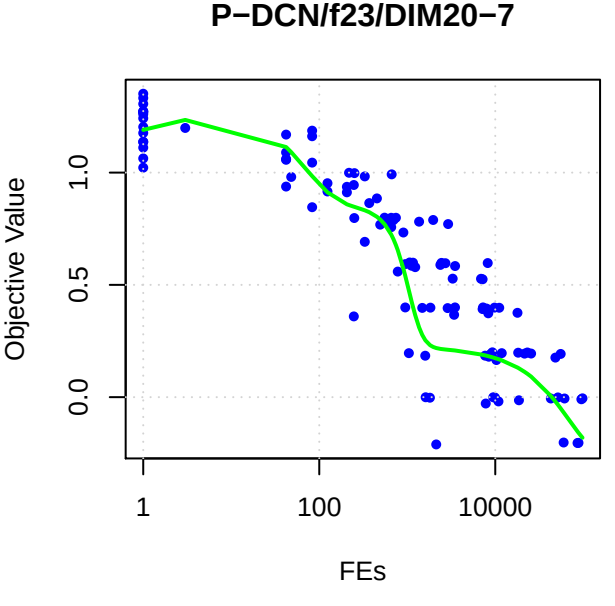
10000
FEs


P−DCN/f23/DIM20−7
Objective Value
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0.5
1.0
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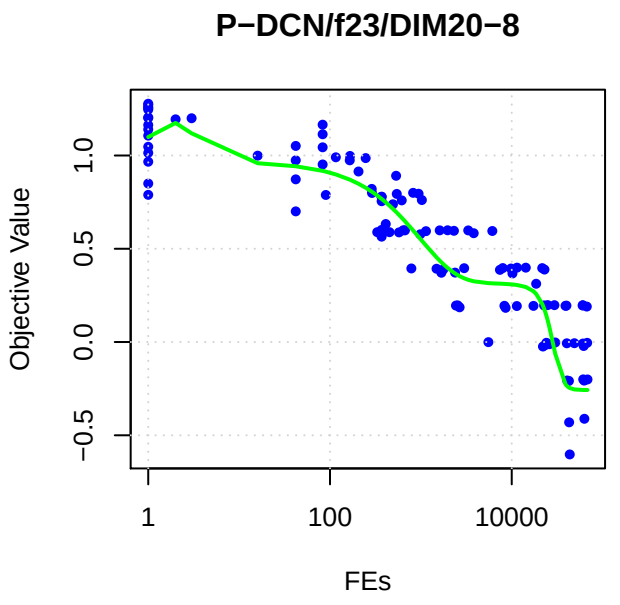
100
10000
FEs


P−DCN/f23/DIM20−8
Objective Value
FEs
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10000
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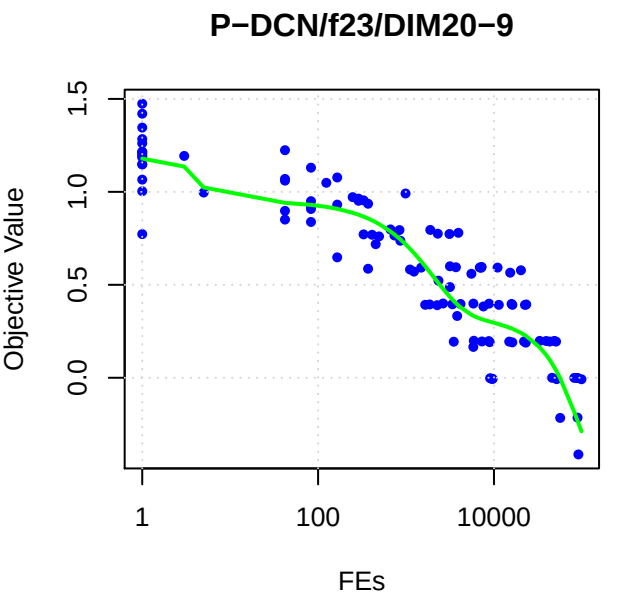
1.0


P−DCN/f23/DIM20−9
Objective Value
FEs
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100
10000
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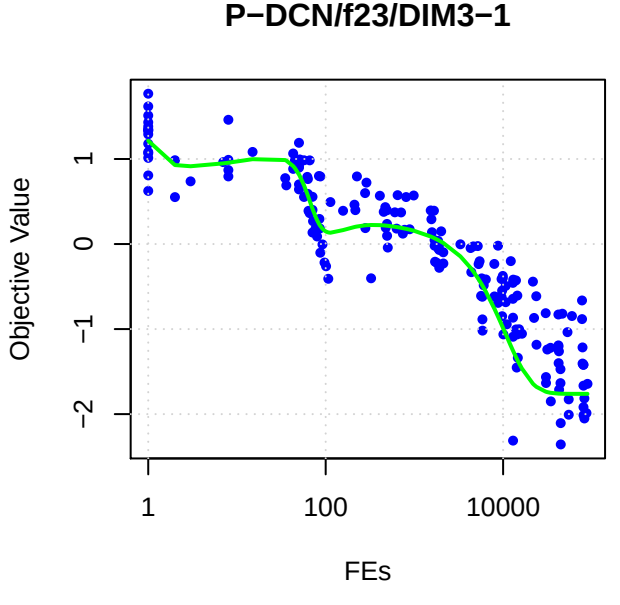
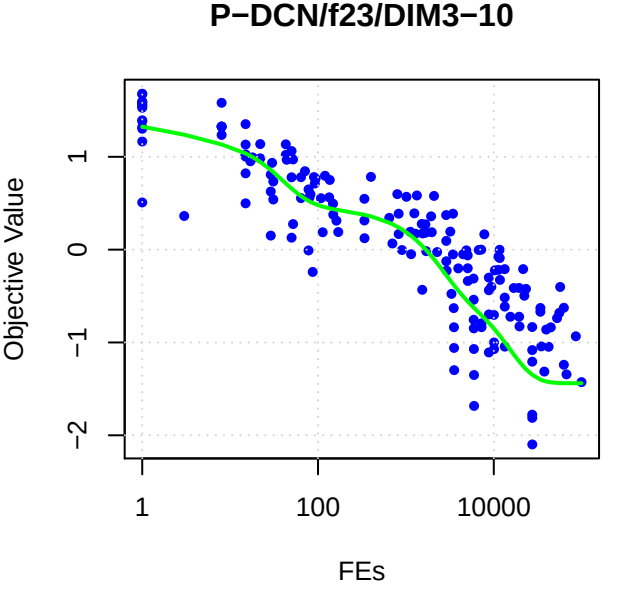
0.5
1.0
1.5


P−DCN/f23/DIM3−1
Objective Value
FEs
1
100
10000
−2
−1
0
1


P−DCN/f23/DIM3−10
Objective Value
FEs
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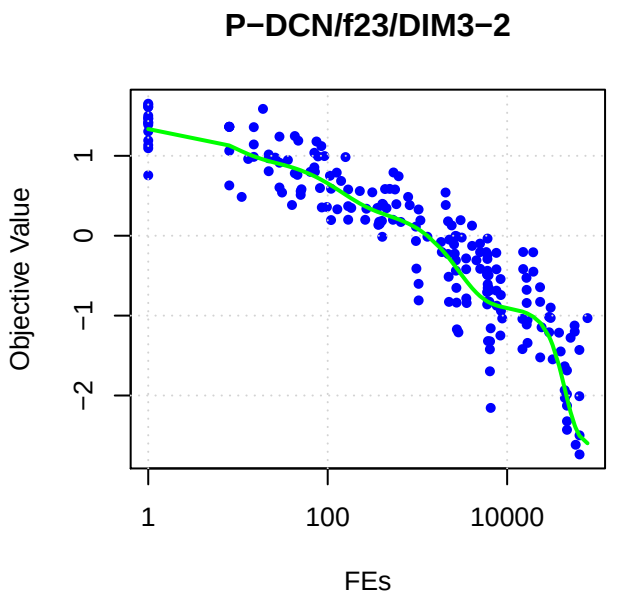
100
10000
−2
−1
0
1


P−DCN/f23/DIM3−2
Objective Value
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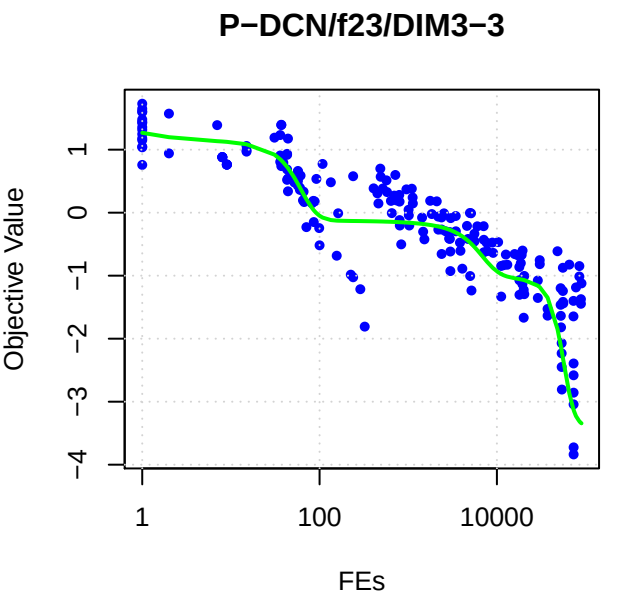
−1
−2
1
100
10000
FEs


P−DCN/f23/DIM3−3
Objective Value
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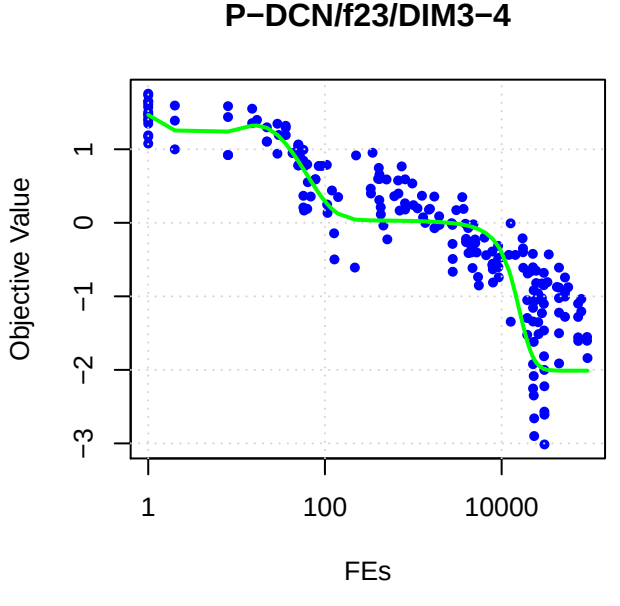
0
−1
−2
−3
−4
1
100
10000
FEs


P−DCN/f23/DIM3−4
Objective Value
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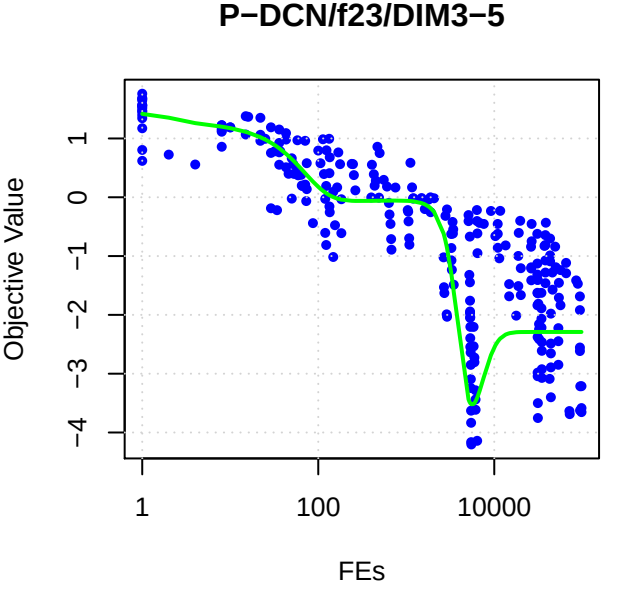
−1
−2
−3
1
100
10000
FEs


P−DCN/f23/DIM3−5
Objective Value
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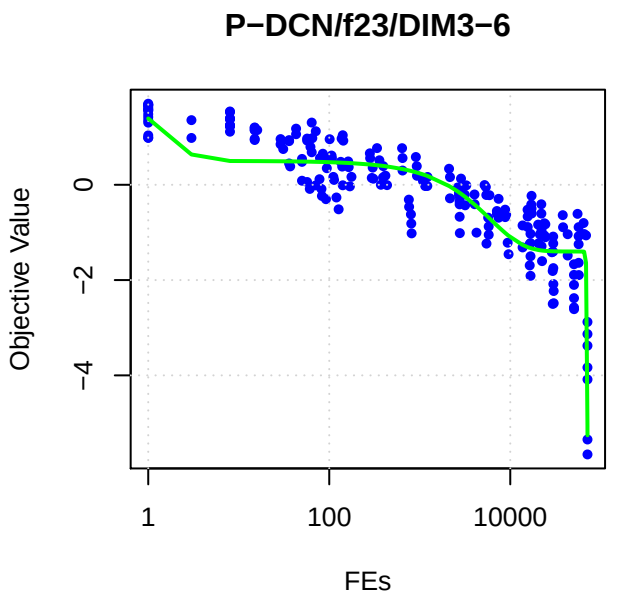
0
−1
−2
−3
−4
1
100
10000
FEs


P−DCN/f23/DIM3−6
Objective Value
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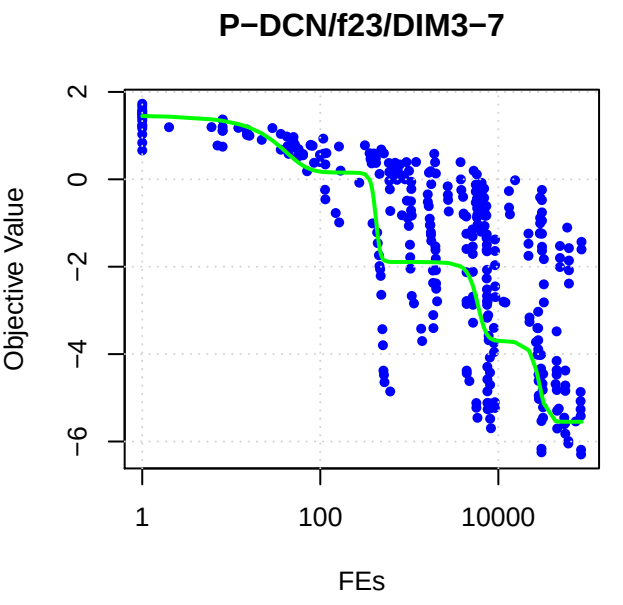
−2
−4
1
100
10000
FEs


P−DCN/f23/DIM3−7
Objective Value
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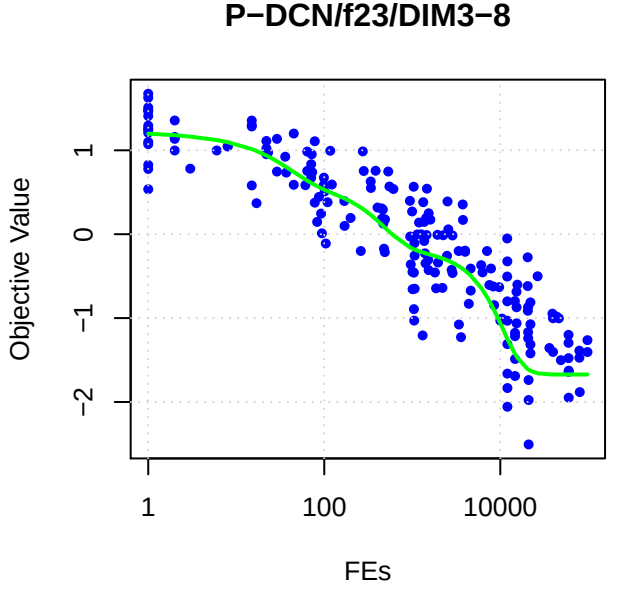
−2
−4
−6
1
100
10000
FEs


P−DCN/f23/DIM3−8
Objective Value
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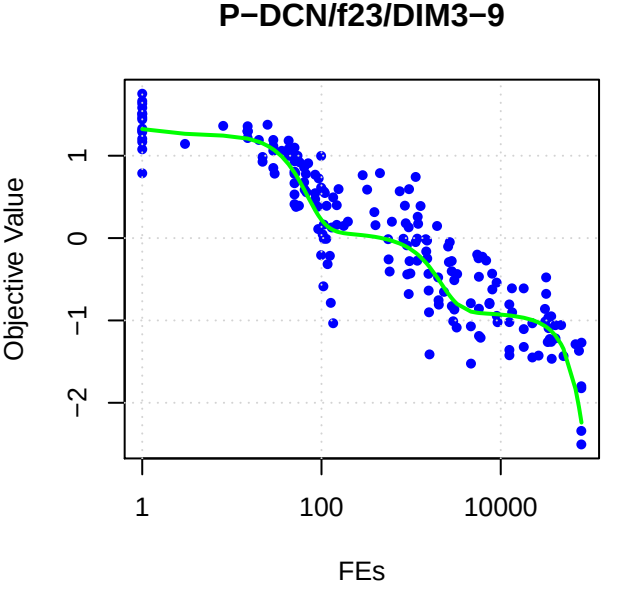
0
−1
−2
1
100
10000
FEs


P−DCN/f23/DIM3−9
Objective Value
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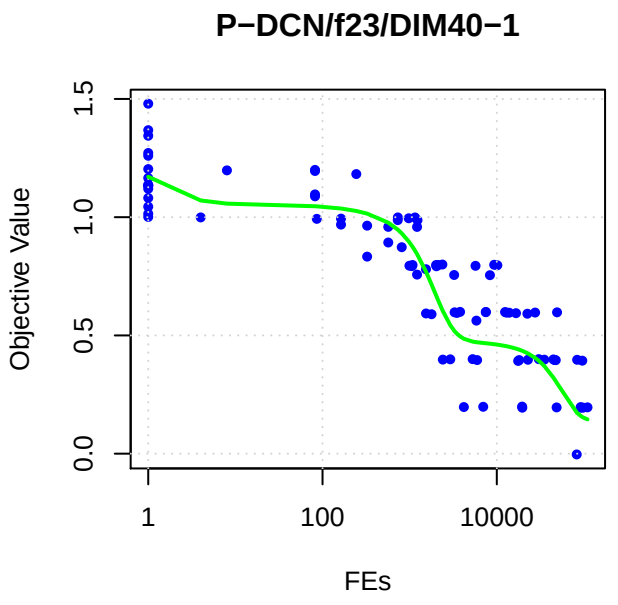
0
−1
−2
1
100
10000
FEs


P−DCN/f23/DIM40−1
Objective Value
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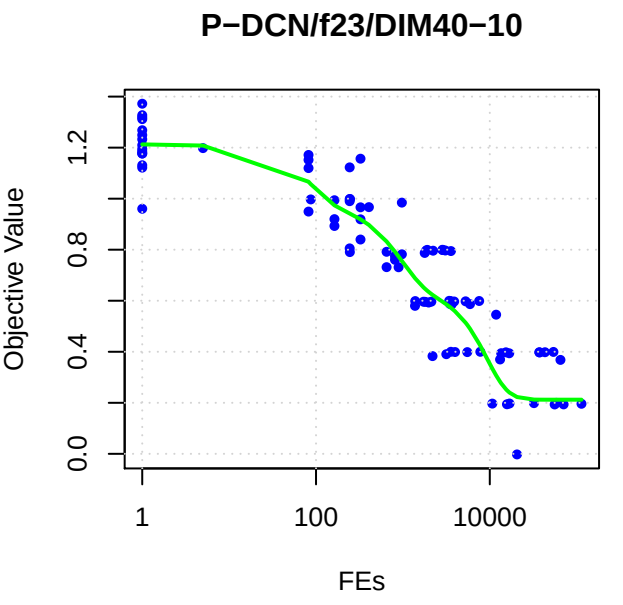
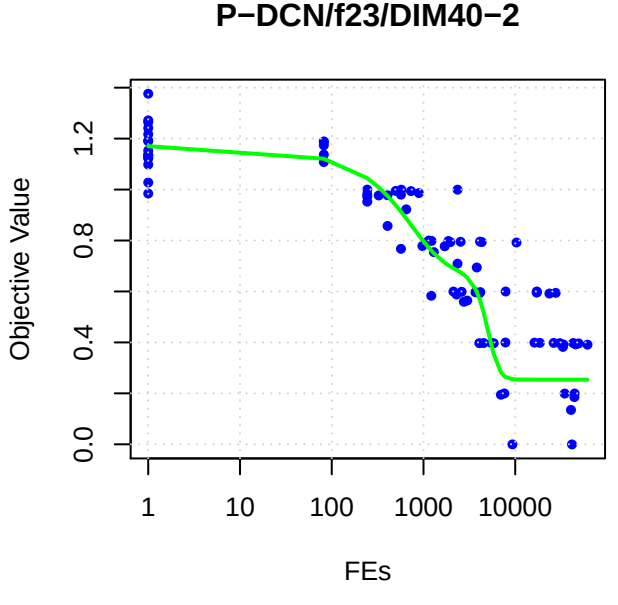
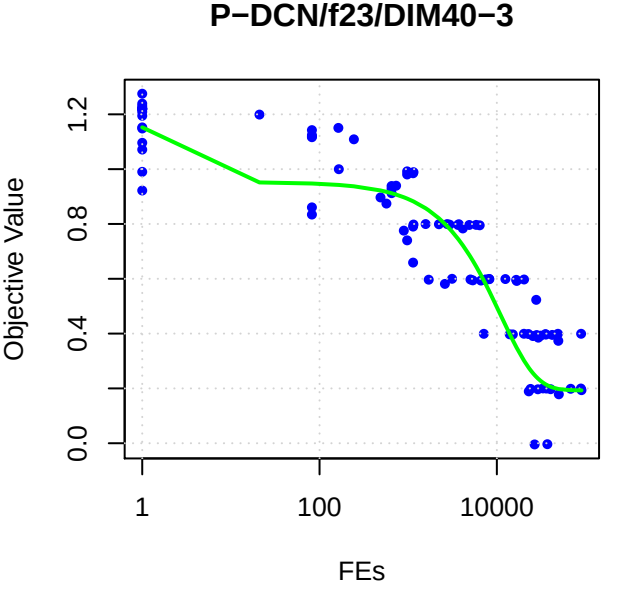
0.5
1.0
1.5
1
100
10000
FEs


P−DCN/f23/DIM40−10
Objective Value
0.0
0.4
0.8
1.2
1
100
10000
FEs


P−DCN/f23/DIM40−2
Objective Value
0.0
0.4
0.8
1.2
1
10
100
1000
10000
FEs


P−DCN/f23/DIM40−3
Objective Value
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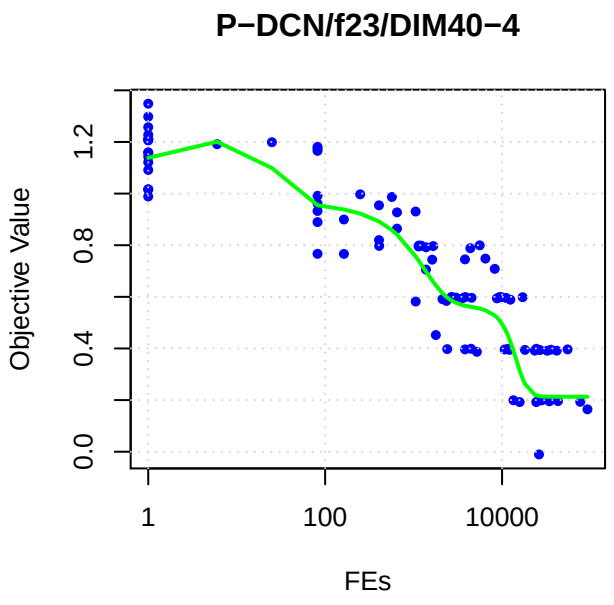
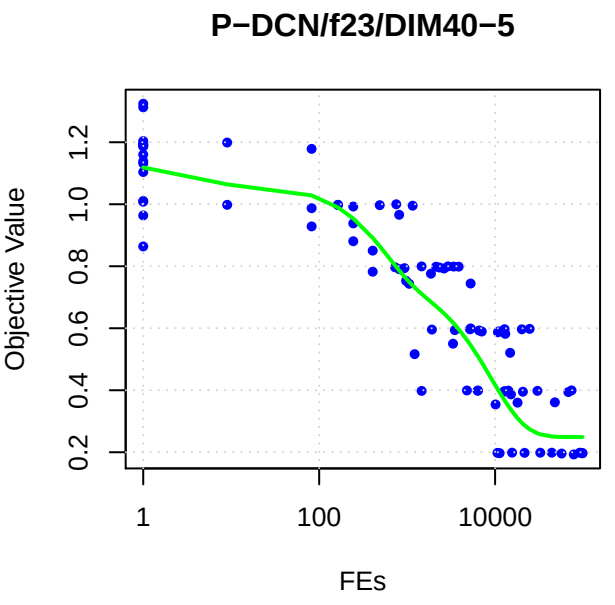
0.4
0.8
1.2
1
100
10000
FEs


P−DCN/f23/DIM40−4
Objective Value
0.0
0.4
0.8
1.2
1
100
10000
FEs


P−DCN/f23/DIM40−5
Objective Value
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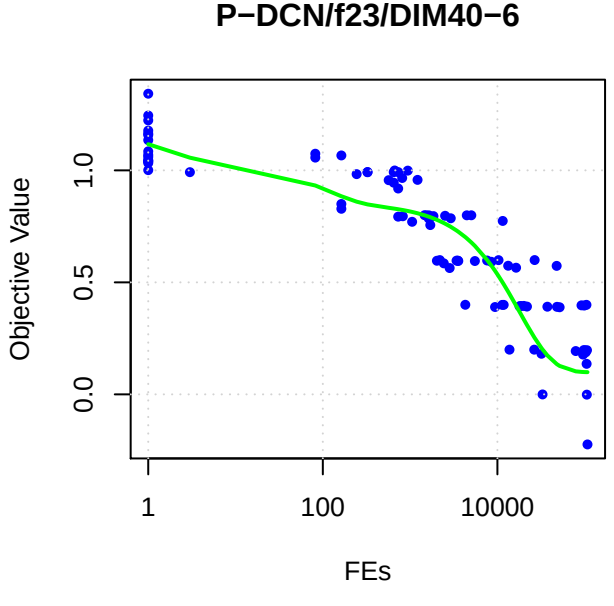
0.4
0.6
0.8
1.0
1.2
1
100
10000
FEs


P−DCN/f23/DIM40−6
Objective Value
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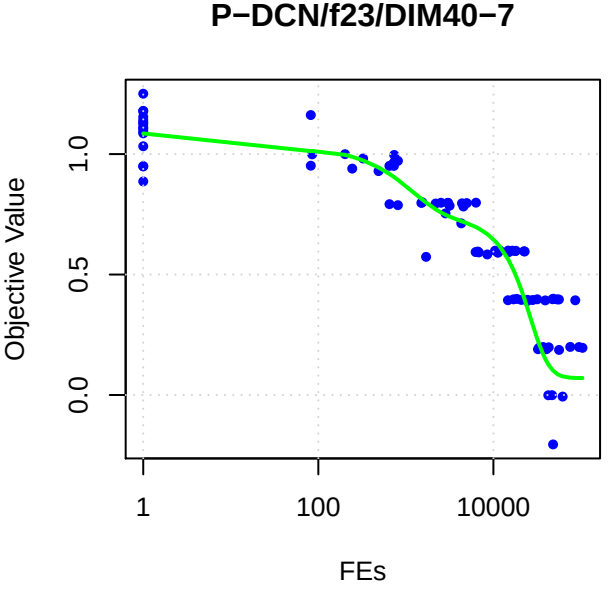
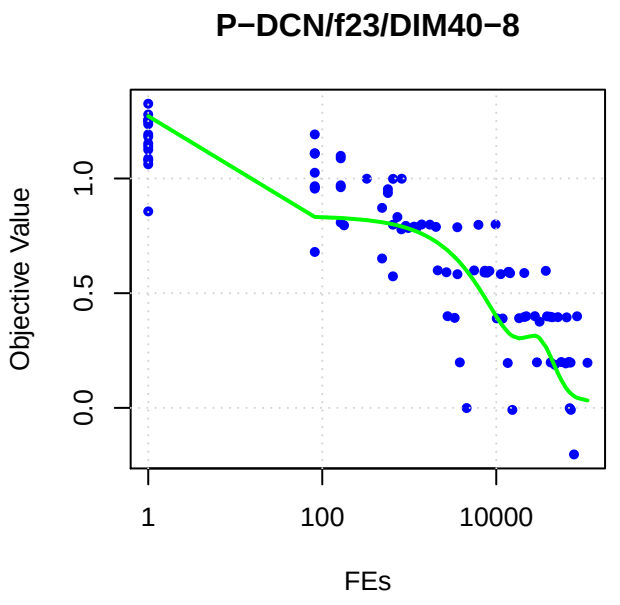
0.5
1.0
1
100
10000
FEs


P−DCN/f23/DIM40−7
Objective Value
0.0
0.5
1.0
1
100
10000
FEs


P−DCN/f23/DIM40−8
Objective Value
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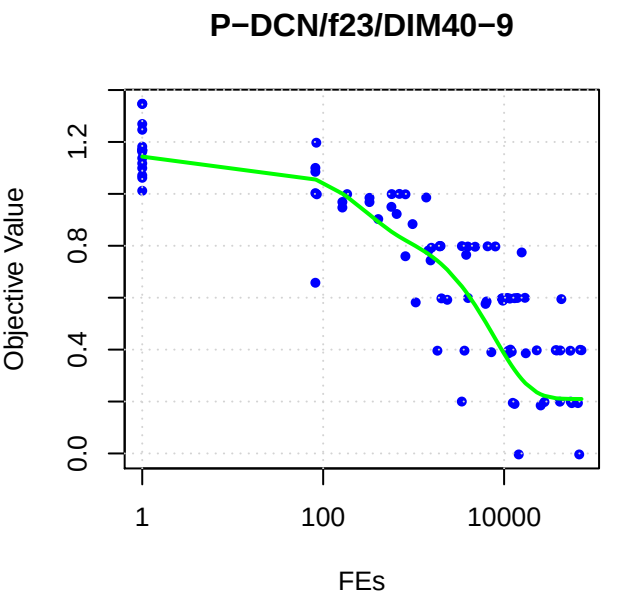
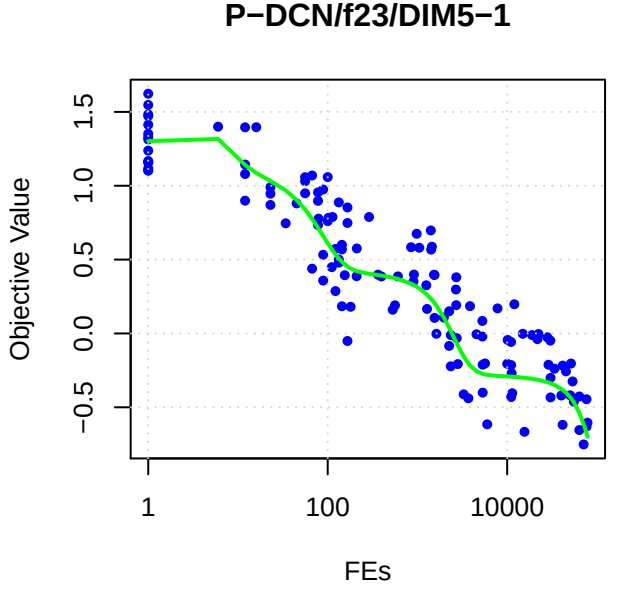
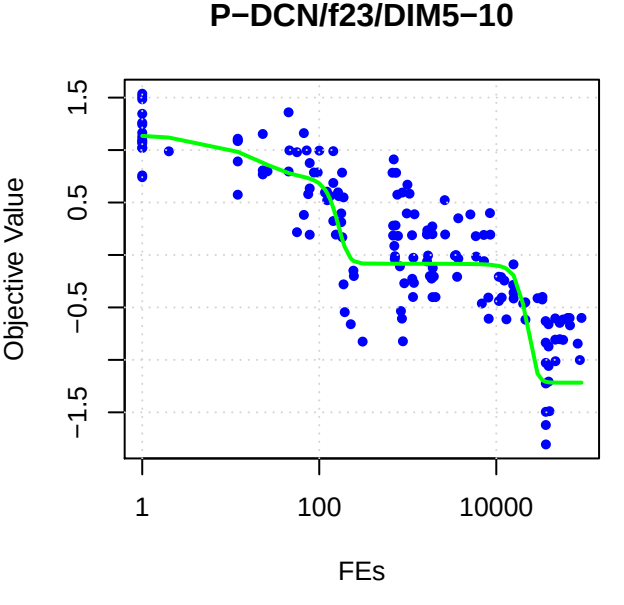
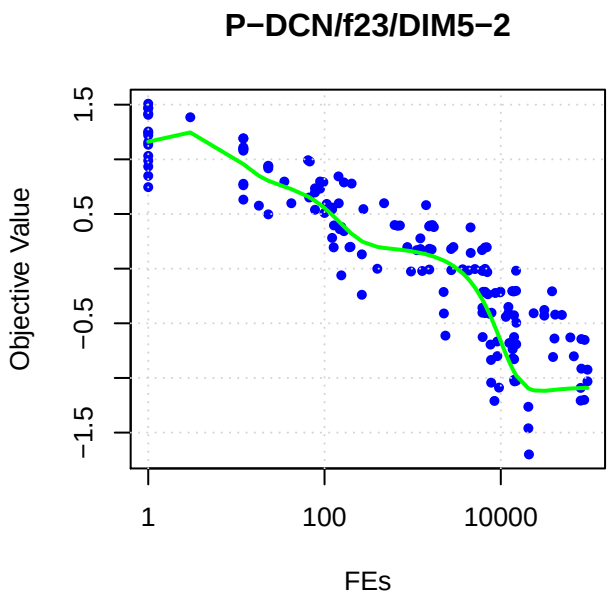
0.5
1.0
1
100
10000
FEs


P−DCN/f23/DIM40−9
Objective Value
0.0
0.4
0.8
1.2
1
100
10000
FEs


P−DCN/f23/DIM5−1
Objective Value
−0.5
0.0
0.5
1.0
1.5
1
100
10000
FEs


P−DCN/f23/DIM5−10
Objective Value
−1.5
−0.5
0.5
1.5
1
100
10000
FEs


P−DCN/f23/DIM5−2
Objective Value
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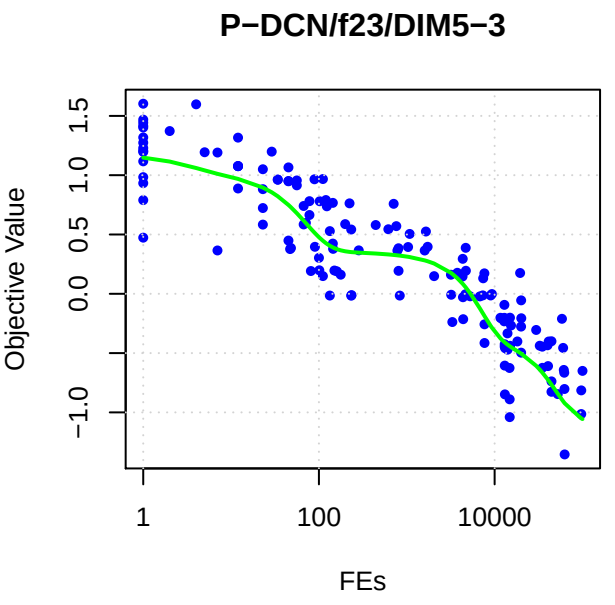
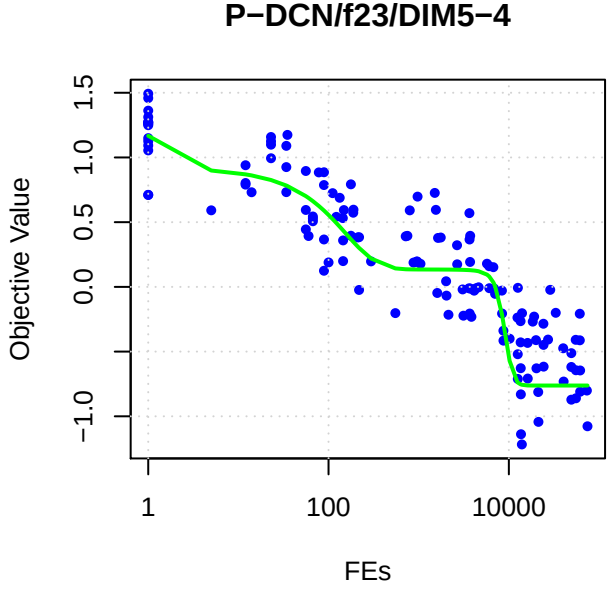
0.5
−0.5
−1.5
1
100
10000
FEs


P−DCN/f23/DIM5−3
Objective Value
1.5
1.0
0.5
0.0
−1.0
1
100
10000
FEs


P−DCN/f23/DIM5−4
Objective Value
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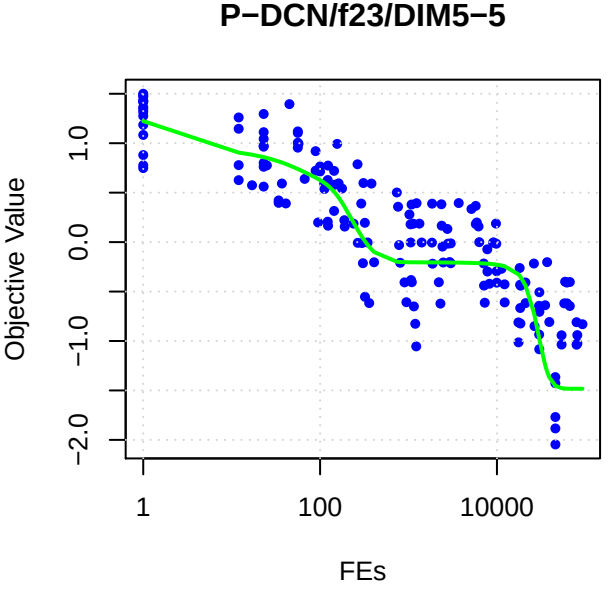
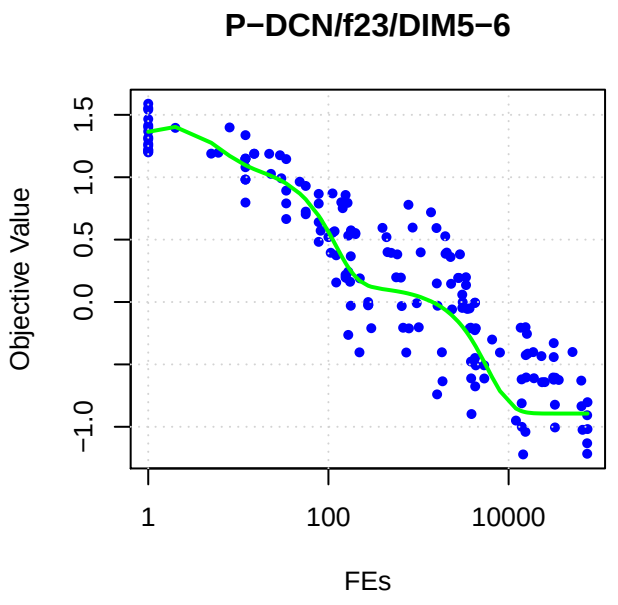
1.0
0.5
0.0
−1.0
1
100
10000
FEs


P−DCN/f23/DIM5−5
Objective Value
1.0
0.0
−1.0
−2.0
1
100
10000
FEs


P−DCN/f23/DIM5−6
Objective Value
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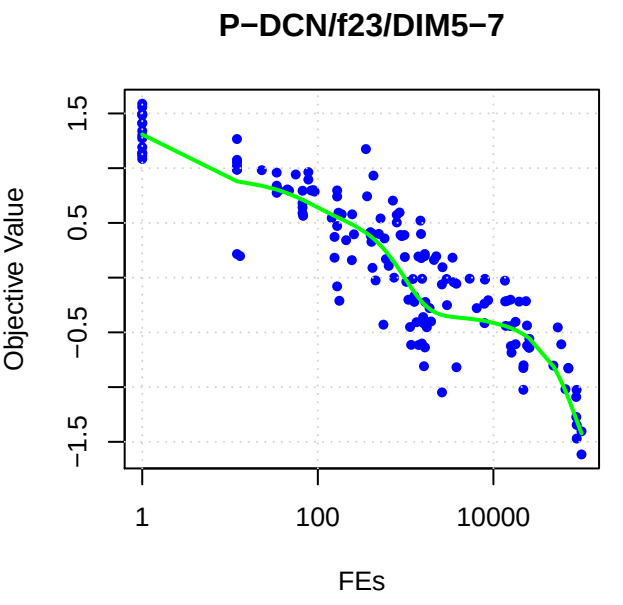
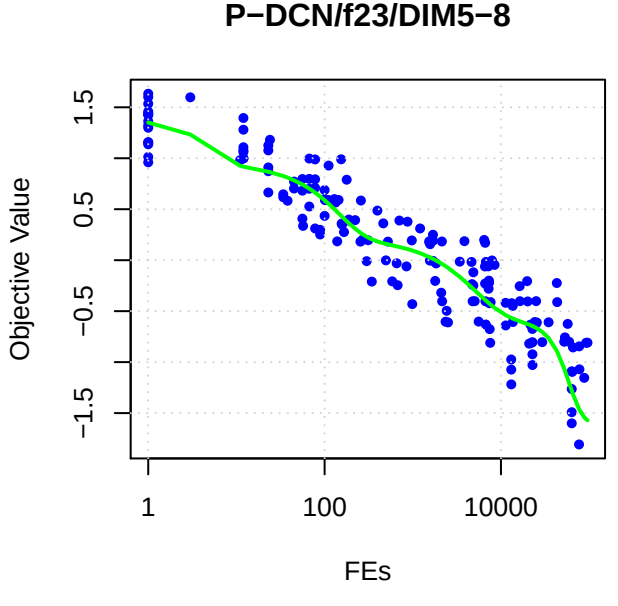
1.0
0.5
0.0
−1.0
1
100
10000
FEs


P−DCN/f23/DIM5−7
Objective Value
1.5
0.5
−0.5
−1.5
1
100
10000
FEs


P−DCN/f23/DIM5−8
Objective Value
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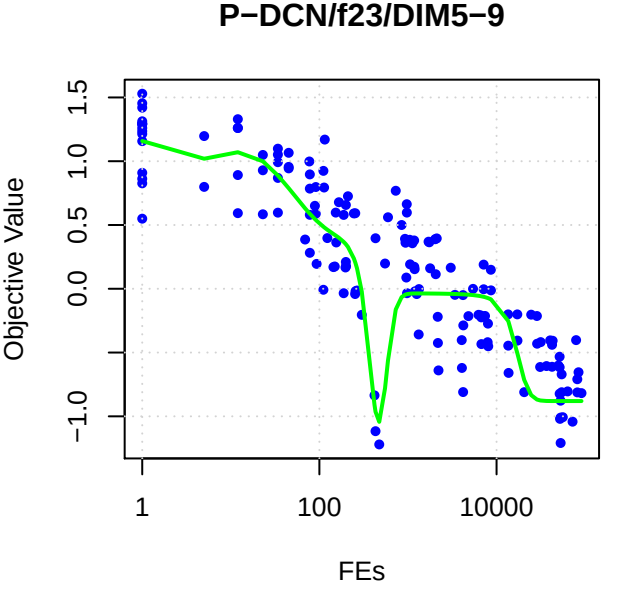
−0.5
−1.5
1
100
10000
FEs


P−DCN/f23/DIM5−9
Objective Value
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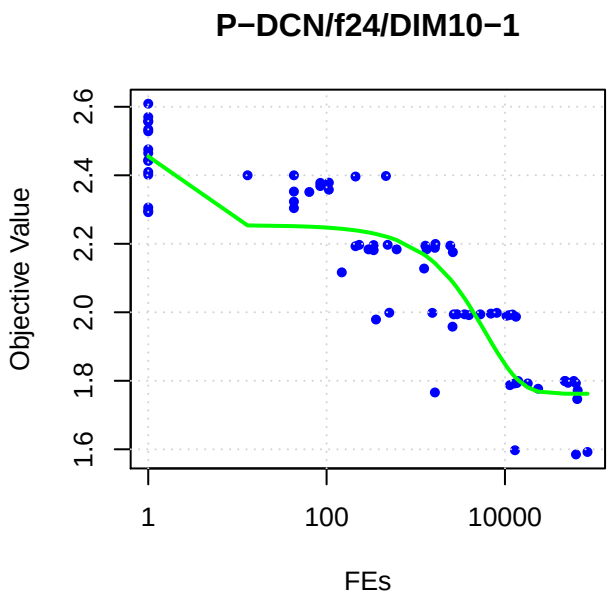
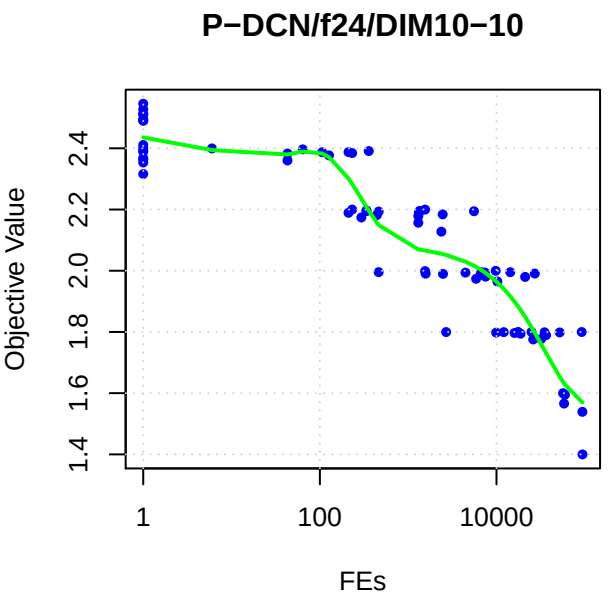
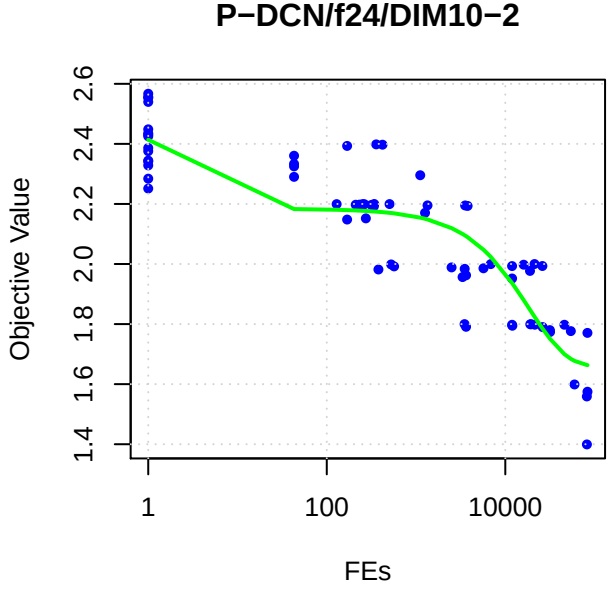
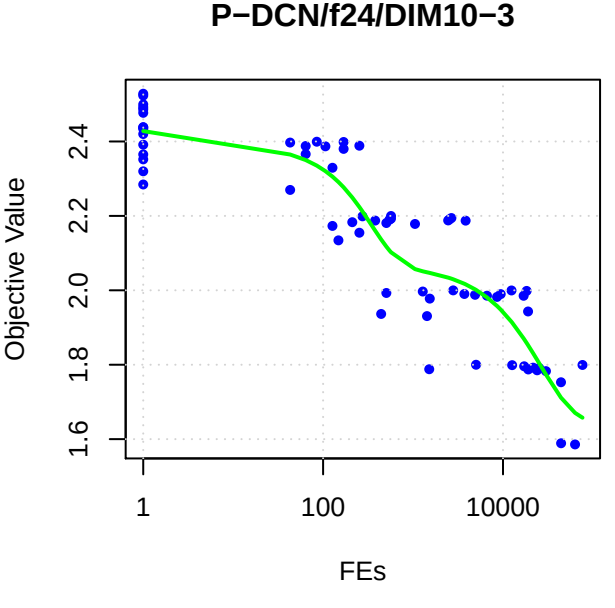
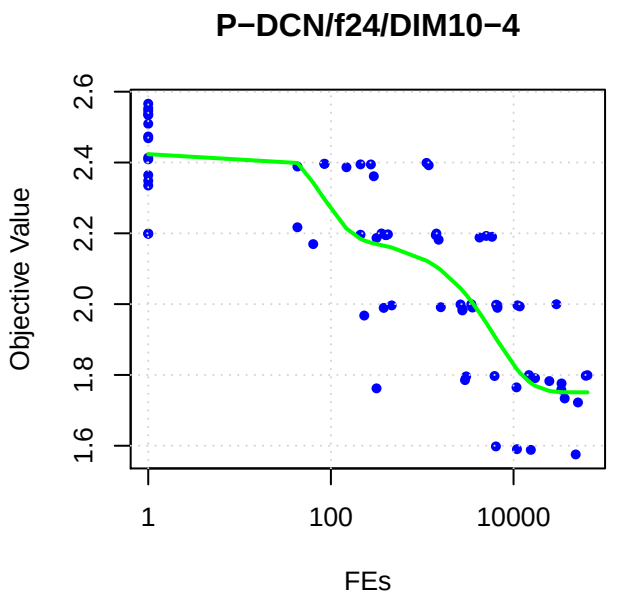
0.5
0.0
−1.0
1
100
10000
FEs


P−DCN/f24/DIM10−1
Objective Value
1.6
1.8
2.0
2.2
2.4
2.6
1
100
10000
FEs


P−DCN/f24/DIM10−10
Objective Value
1.4
1.6
1.8
2.0
2.2
2.4
1
100
10000
FEs


P−DCN/f24/DIM10−2
Objective Value
1.4
1.6
1.8
2.0
2.2
2.4
2.6
1
100
10000
FEs


P−DCN/f24/DIM10−3
Objective Value
1.6
1.8
2.0
2.2
2.4
1
100
10000
FEs


P−DCN/f24/DIM10−4
Objective Value
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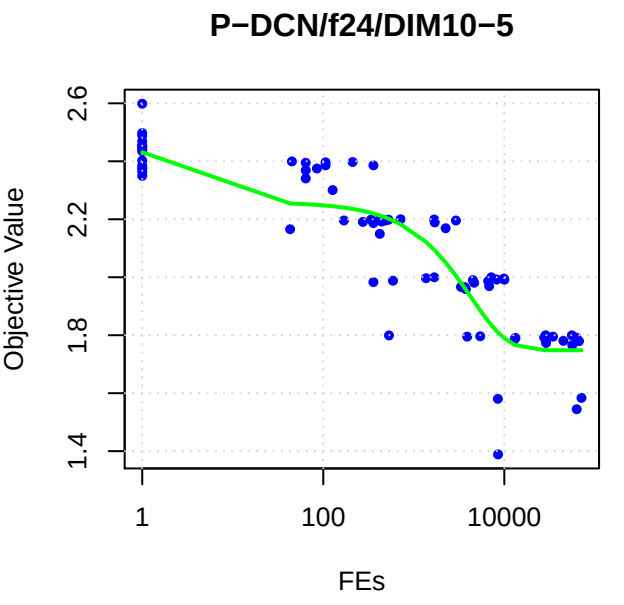
2.4
2.2
2.0
1.8
1.6
1
100
10000
FEs


P−DCN/f24/DIM10−5
Objective Value
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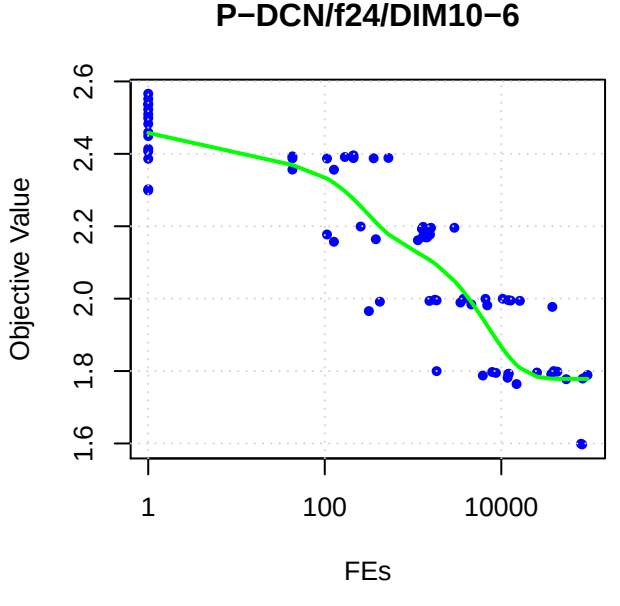
2.2
1.8
1.4
1
100
10000
FEs


P−DCN/f24/DIM10−6
Objective Value
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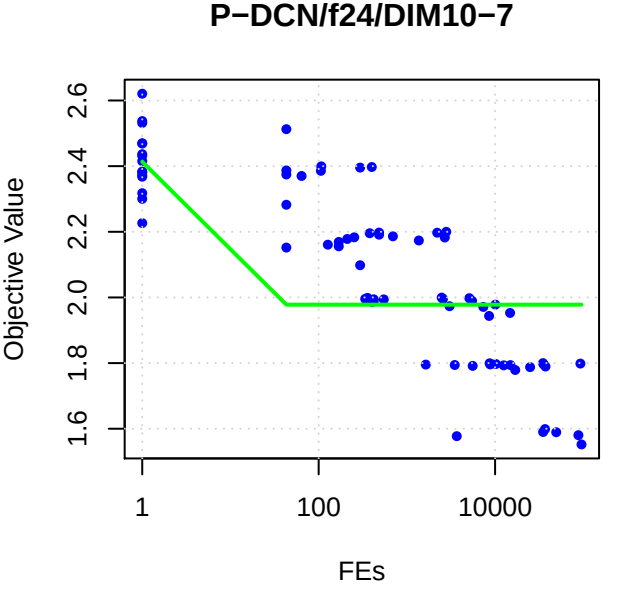
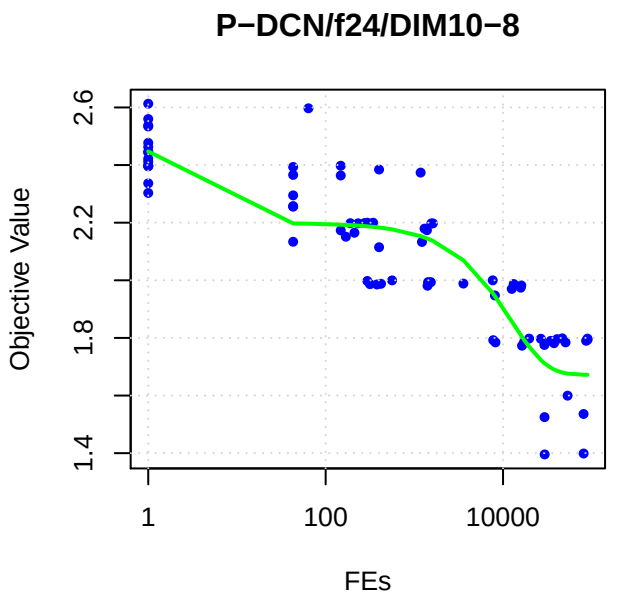
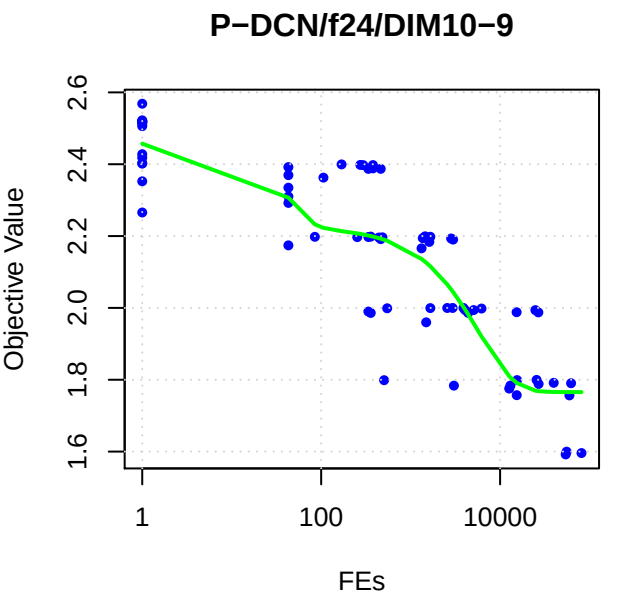
2.4
2.2
2.0
1.8
1.6
1
100
10000
FEs


P−DCN/f24/DIM10−7
Objective Value
2.6
2.4
2.2
2.0
1.8
1.6
1
100
10000
FEs


P−DCN/f24/DIM10−8
Objective Value
2.6
2.2
1.8
1.4
1
100
10000
FEs


P−DCN/f24/DIM10−9
Objective Value
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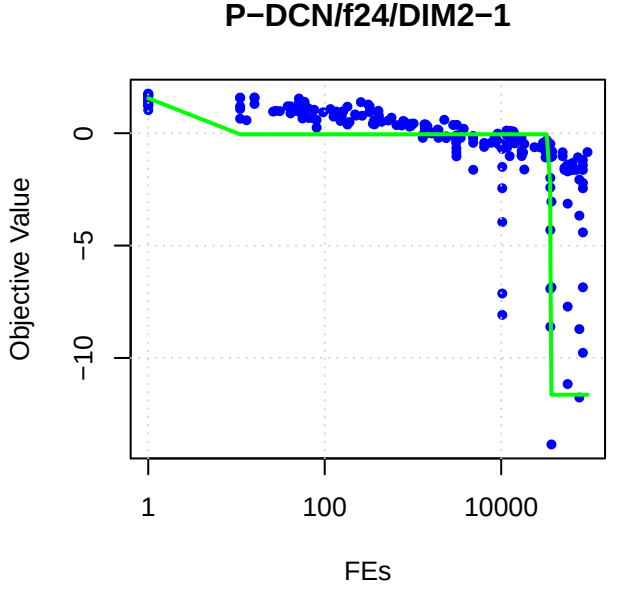
2.4
2.2
2.0
1.8
1.6
1
100
10000
FEs


P−DCN/f24/DIM2−1
Objective Value
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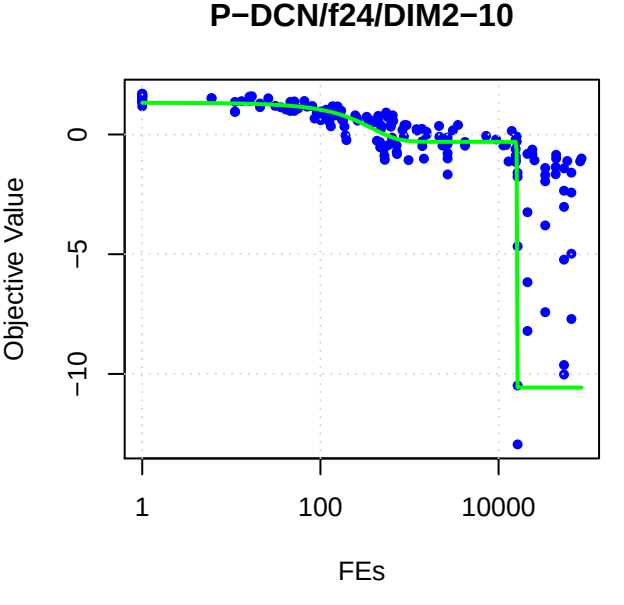
−5
−10
1
100
10000
FEs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Objective Value
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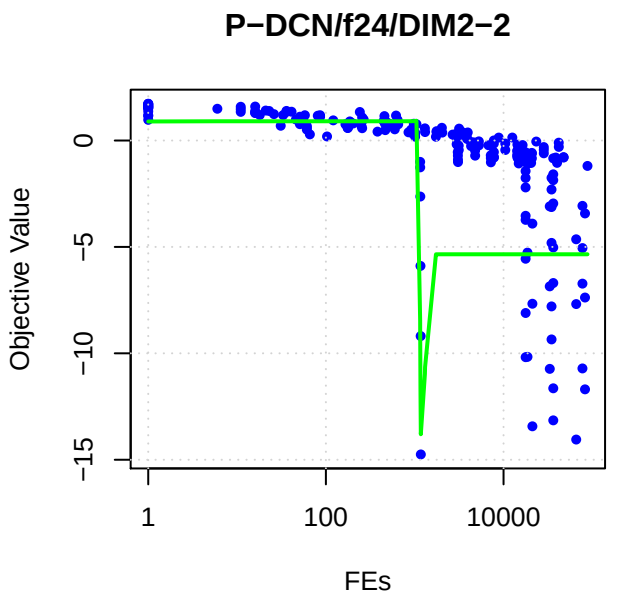
FEs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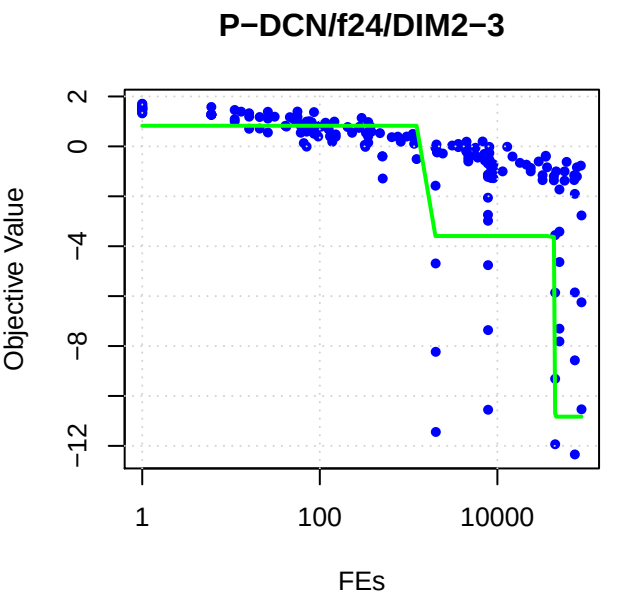
P−DCN/f24/DIM2−3
Objective Value
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−12
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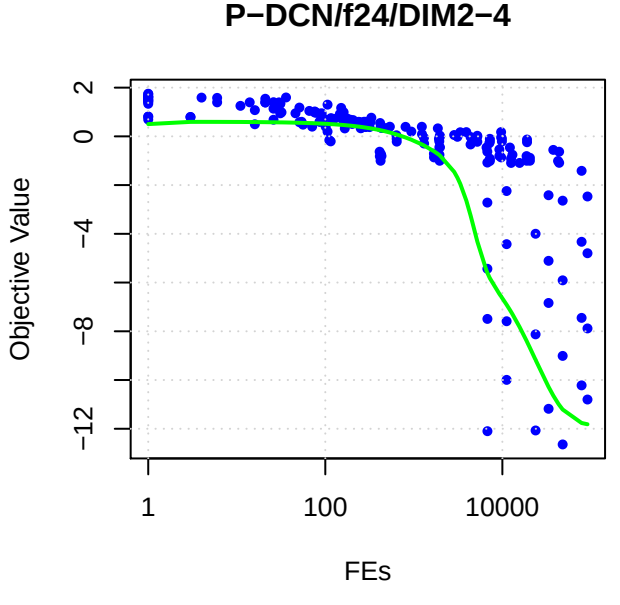
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Objective Value
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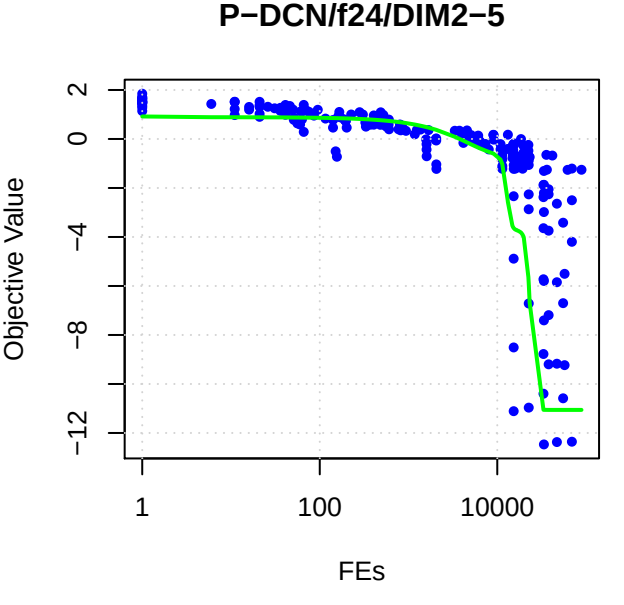
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Objective Value
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1
100
10000
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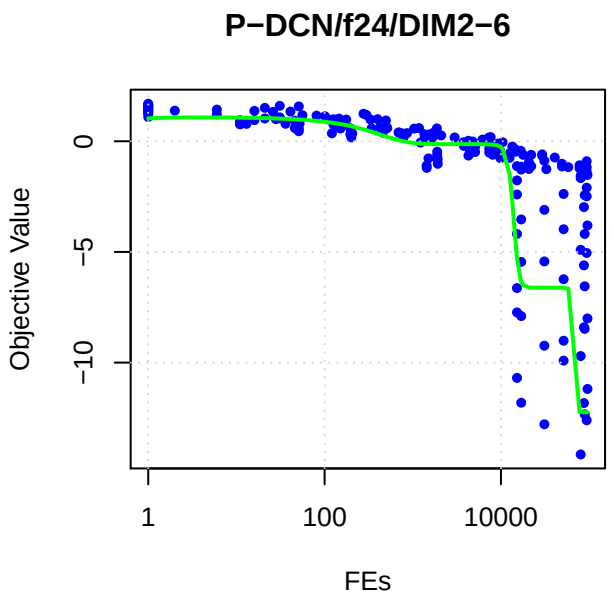
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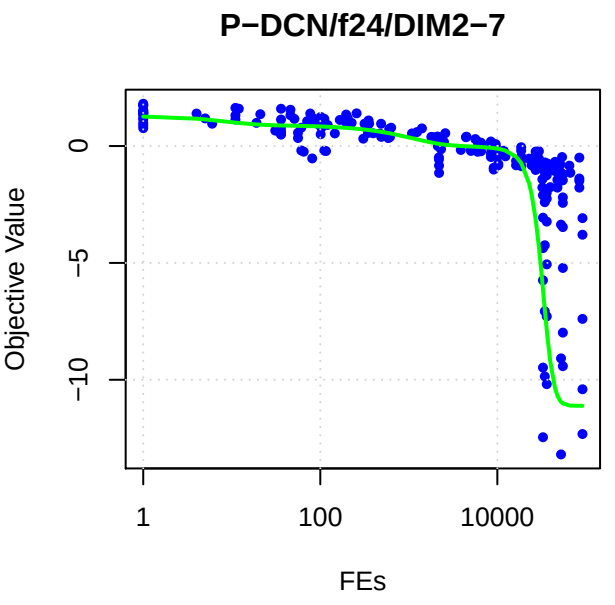
10000
FEs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10000
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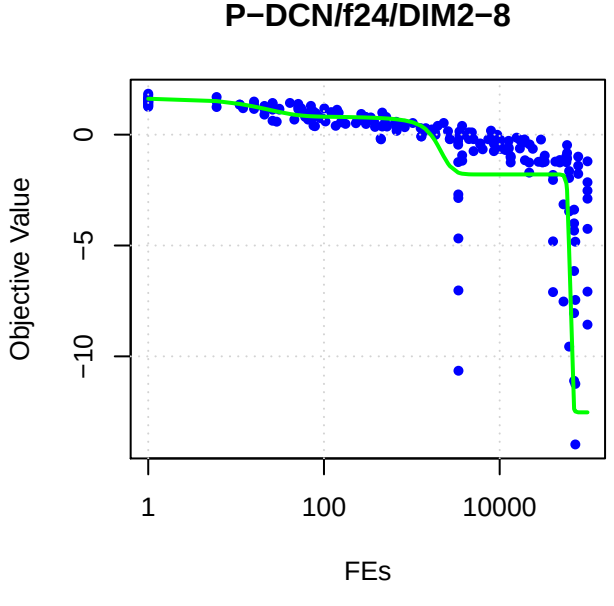
P−DCN/f24/DIM2−8
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−10
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10000
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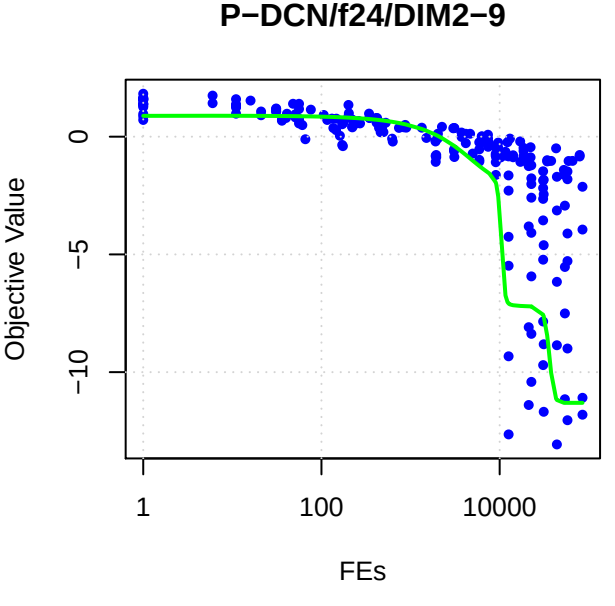
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10000
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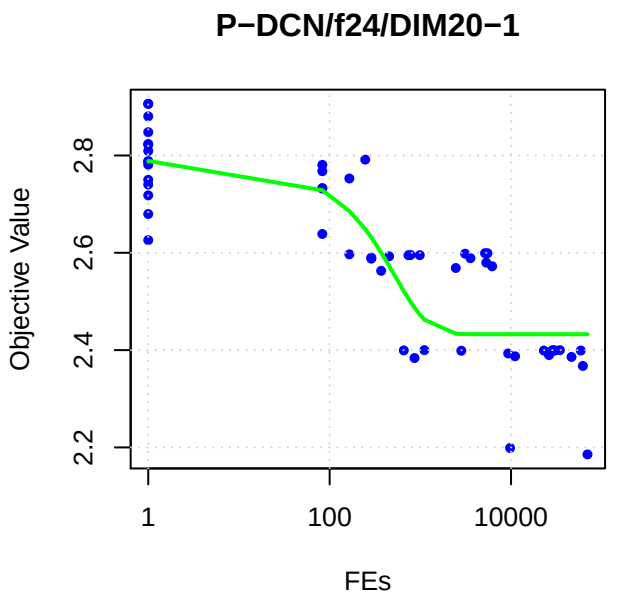
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Objective Value
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2.6
2.8
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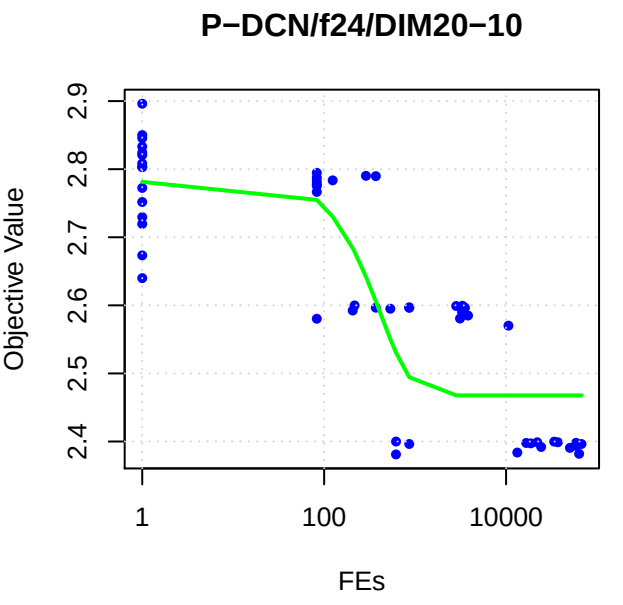
10000
FEs


P−DCN/f24/DIM20−10
Objective Value
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2.5
2.6
2.7
2.8
2.9
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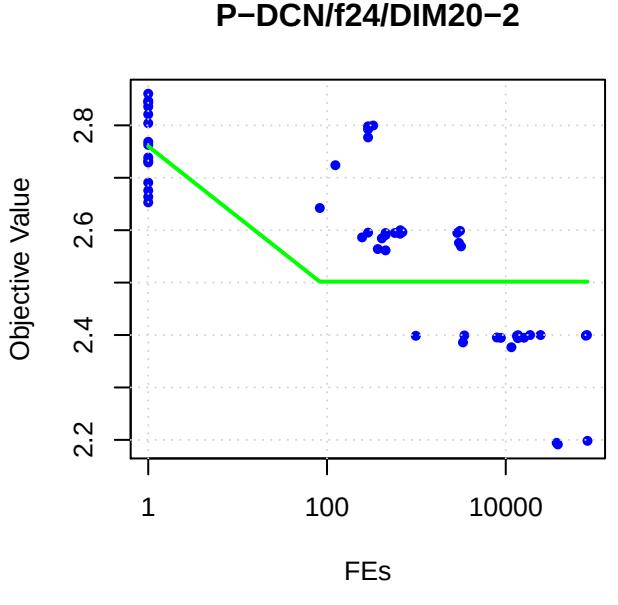
100
10000
FEs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Objective Value
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2.4
2.6
2.8
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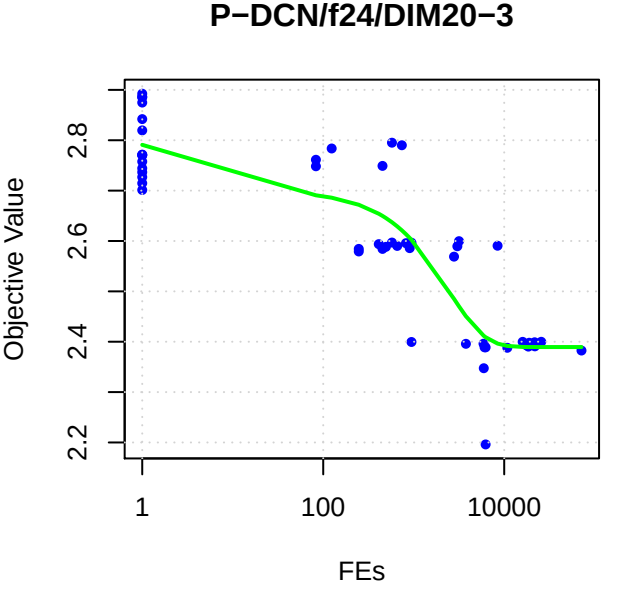
100
10000
FEs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Objective Value
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2.6
2.8
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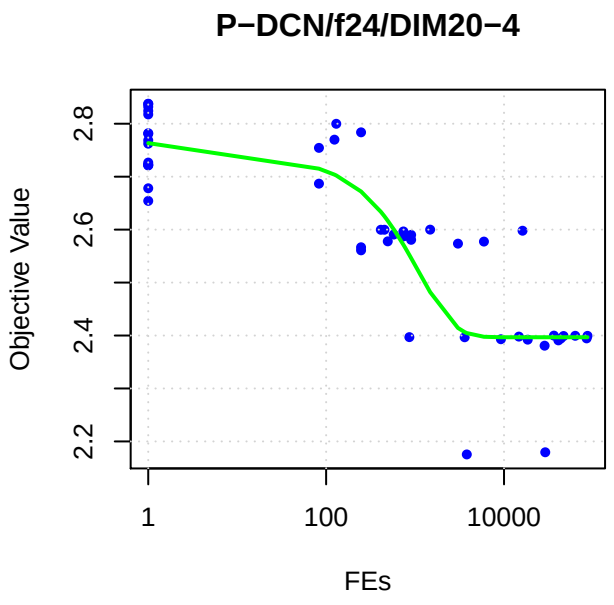
10000
FEs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Objective Value
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2.4
2.6
2.8
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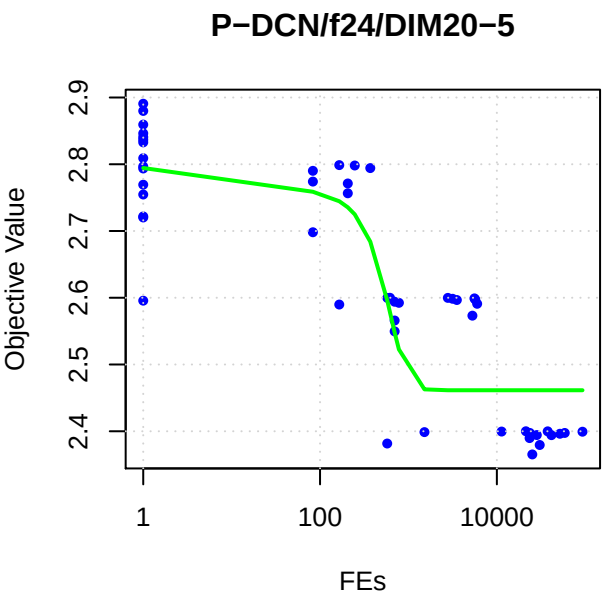
100
10000
FEs


P−DCN/f24/DIM20−5
Objective Value
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2.5
2.6
2.7
2.8
2.9
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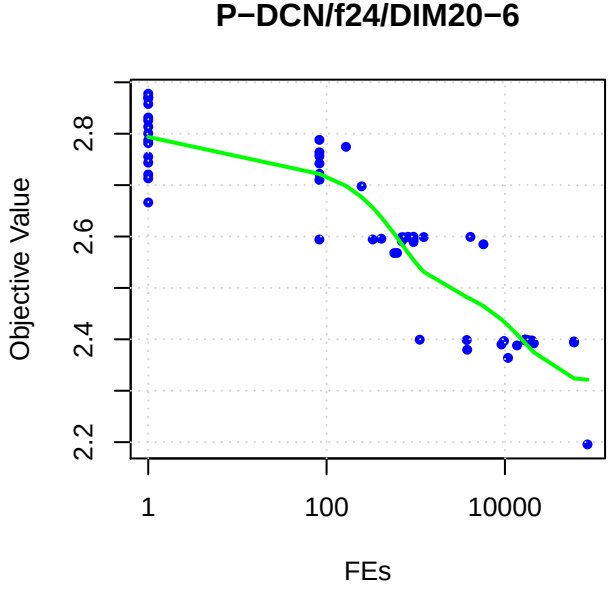
100
10000
FEs


P−DCN/f24/DIM20−6
Objective Value
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2.4
2.6
2.8
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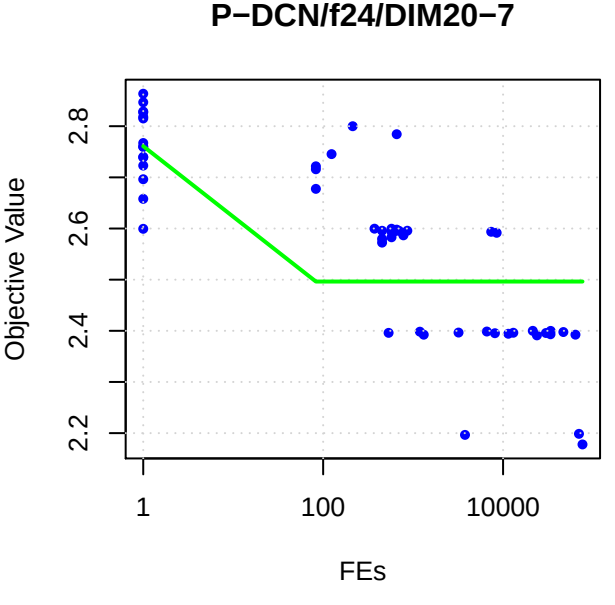
10000
FEs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Objective Value
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2.4
2.6
2.8
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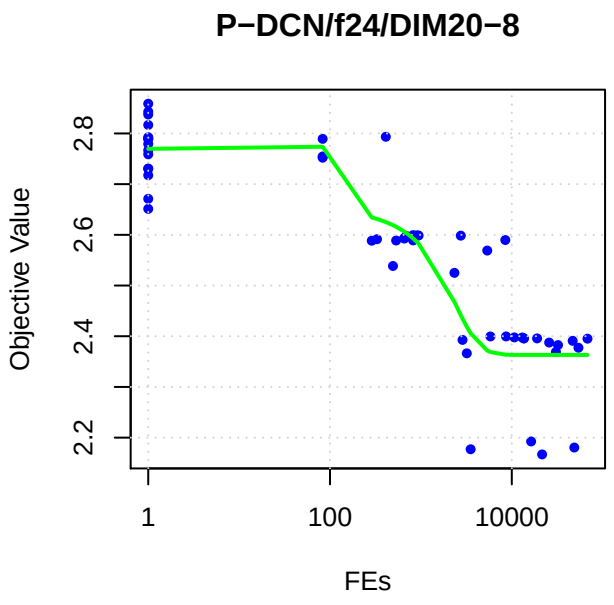
100
10000
FEs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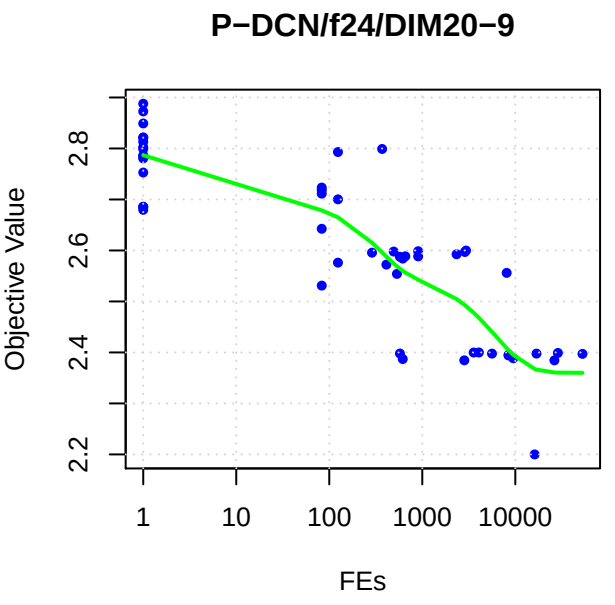
Objective Value
2.2
2.4
2.6
2.8
1
100
10000
FEs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Objective Value
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2.4
2.6
2.8
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10
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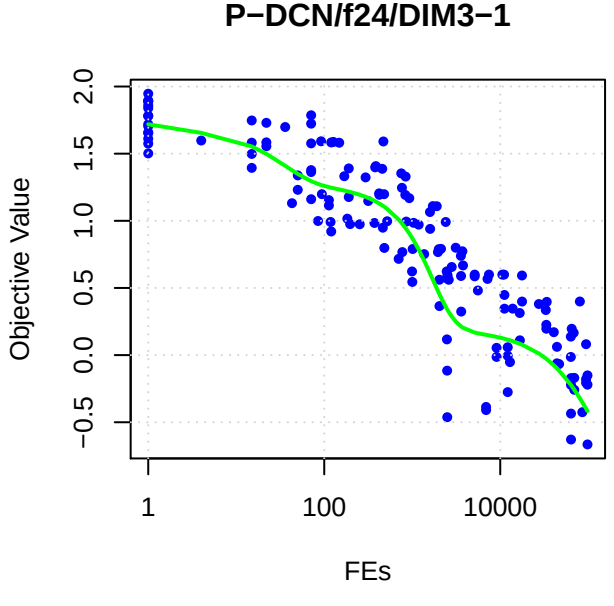
1000
10000
FEs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Objective Value
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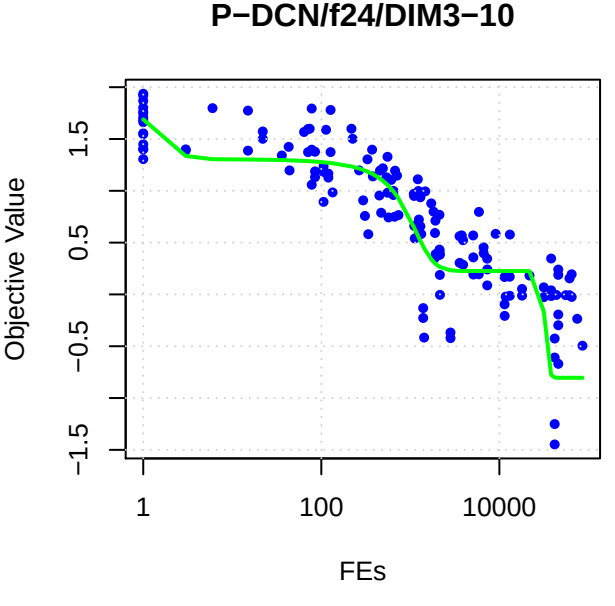
0.5
1.0
1.5
2.0
1
100
10000
FEs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Objective Value
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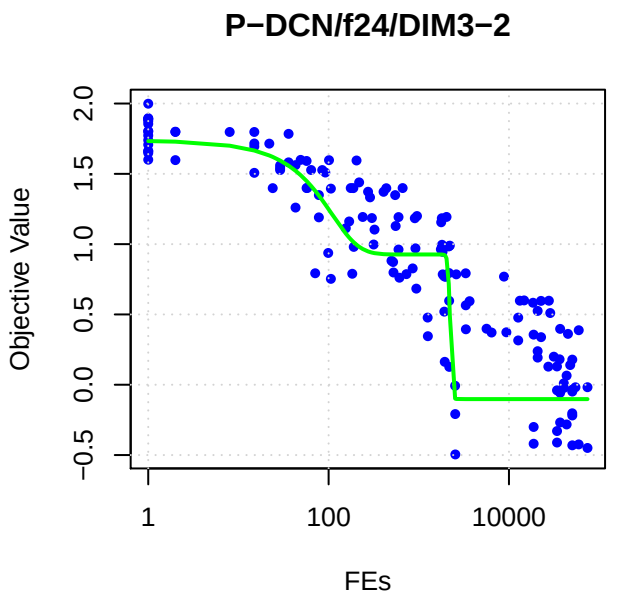
−0.5
0.5
1.5
1
100
10000
FEs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Objective Value
FEs
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10000
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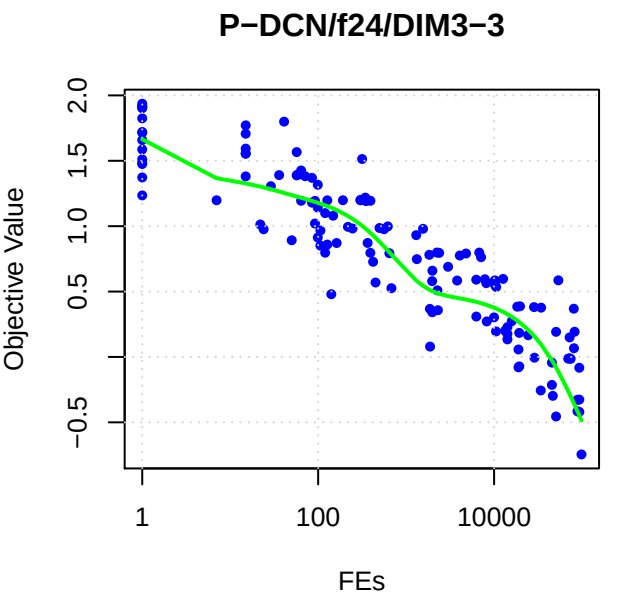
1.0
1.5
2.0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Objective Value
FEs
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10000
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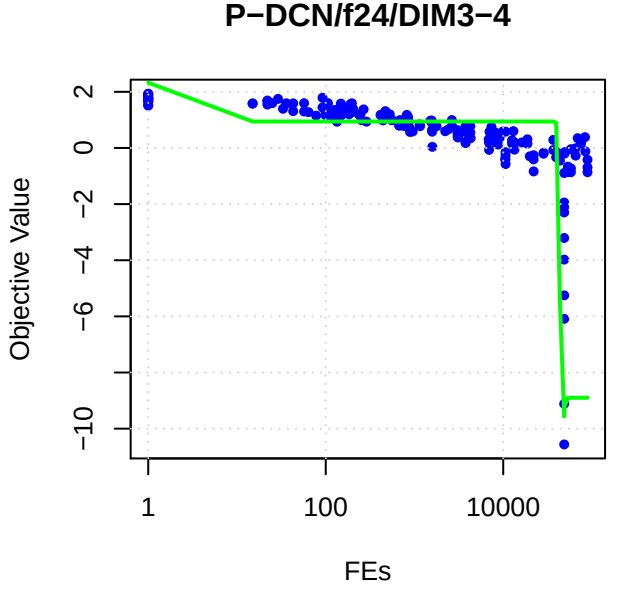
1.0
1.5
2.0


P−DCN/f24/DIM3−4
Objective Value
FEs
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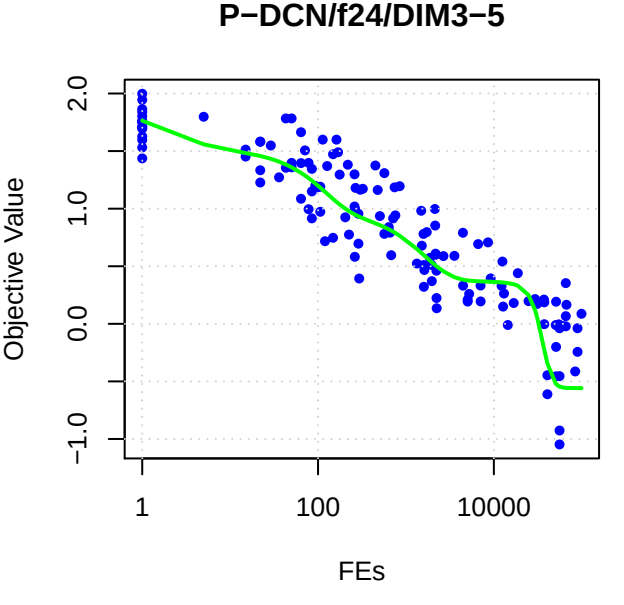
10000
−10
−6
−4
−2
0
2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Objective Value
FEs
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10000
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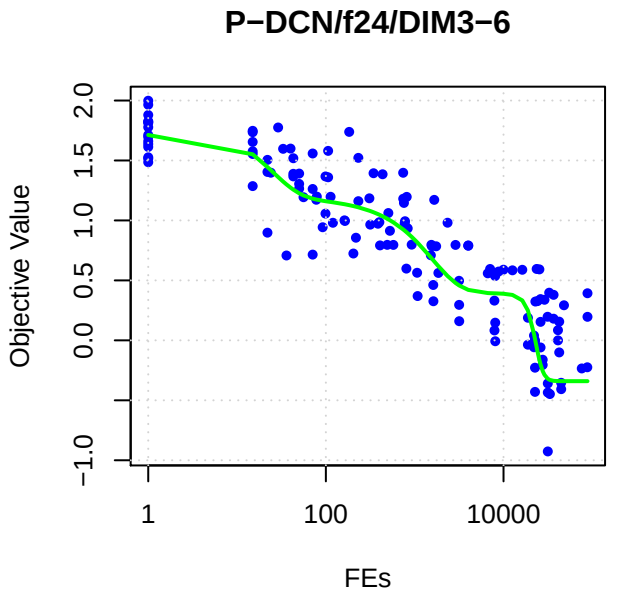
0.0
1.0
2.0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Objective Value
FEs
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1.0
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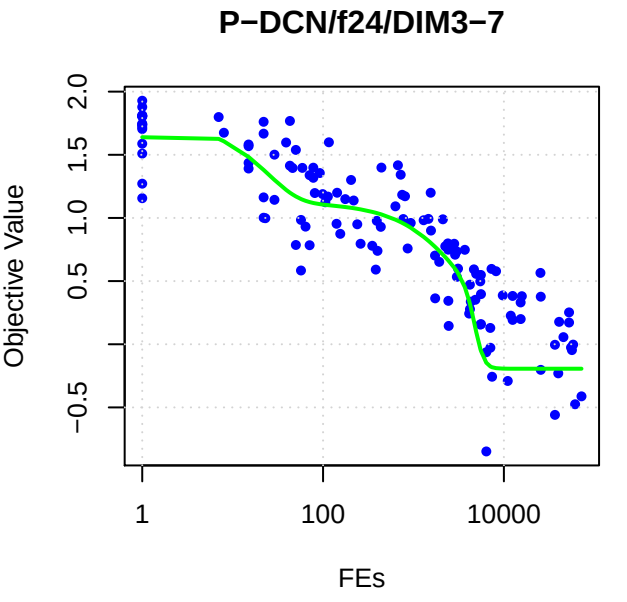
1
100
10000


P−DCN/f24/DIM3−7
Objective Value
FEs
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1.0
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−0.5
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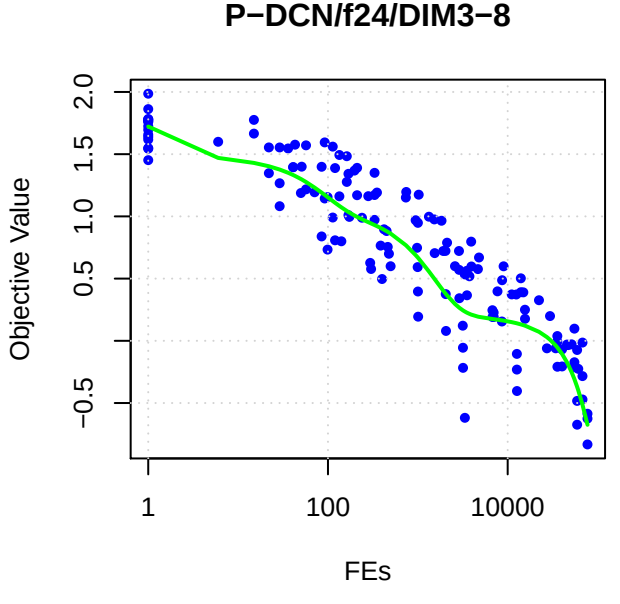
100
10000


P−DCN/f24/DIM3−8
Objective Value
FEs
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1.0
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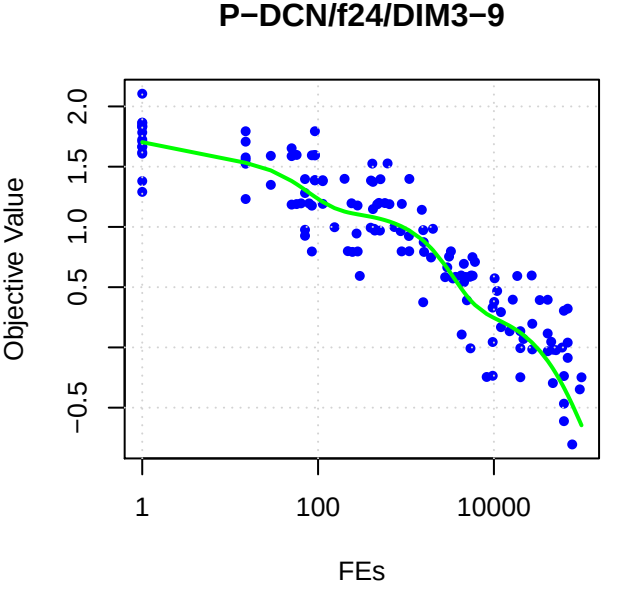
1
100
10000


P−DCN/f24/DIM3−9
Objective Value
FEs
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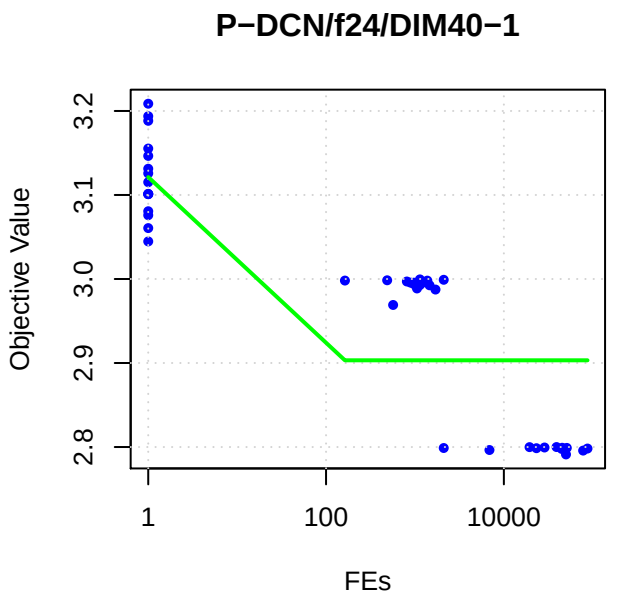
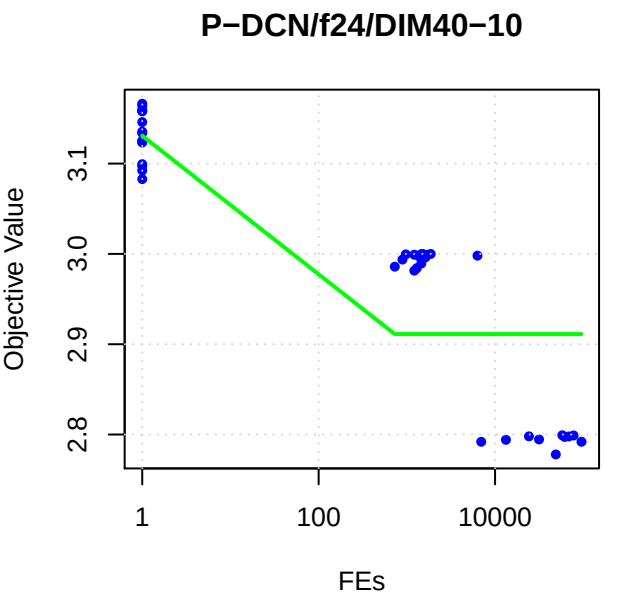
1.0
0.5
−0.5
1
100
10000


P−DCN/f24/DIM40−1
Objective Value
3.2
3.1
3.0
2.9
2.8
1
100
10000
FEs


P−DCN/f24/DIM40−10
Objective Value
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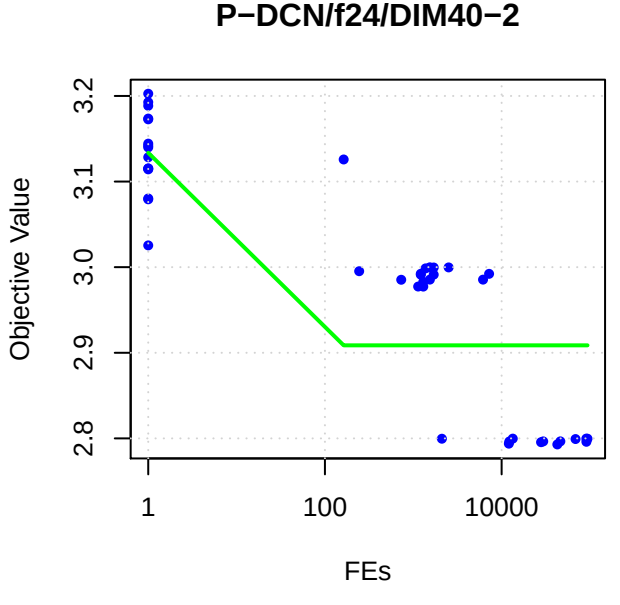
3.0
2.9
2.8
1
100
10000
FEs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Objective Value
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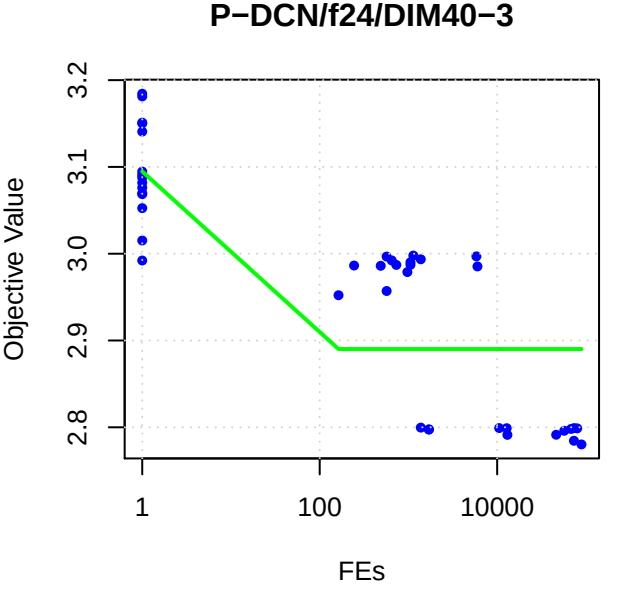
3.1
3.0
2.9
2.8
1
100
10000
FEs


P−DCN/f24/DIM40−3
Objective Value
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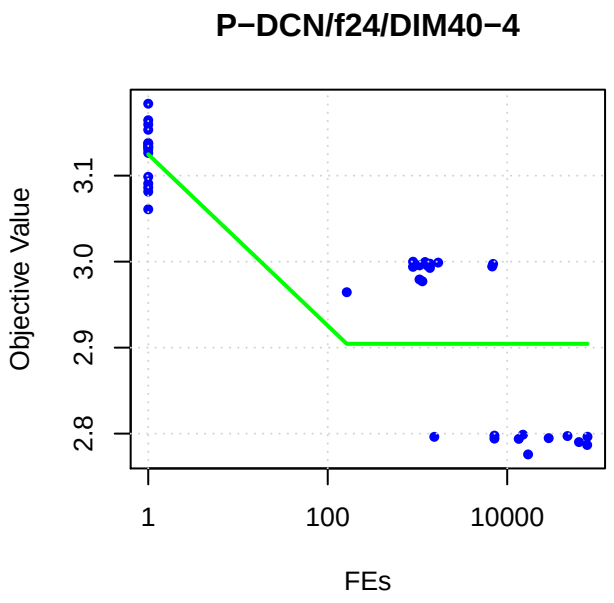
3.1
3.0
2.9
2.8
1
100
10000
FEs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Objective Value
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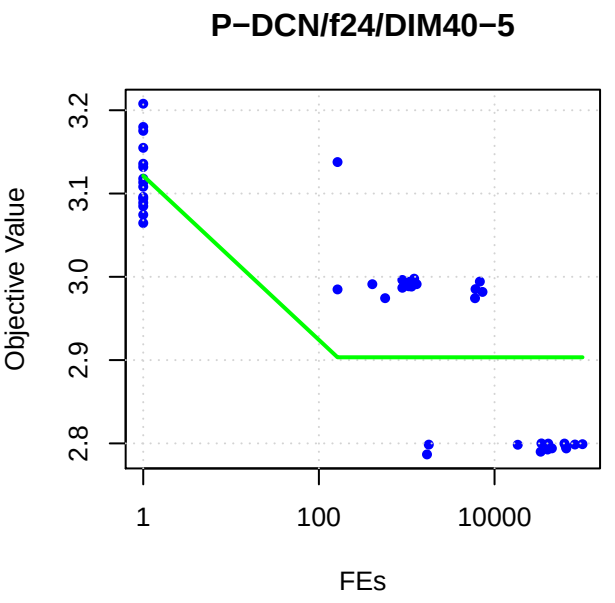
10000
FEs


P−DCN/f24/DIM40−5
Objective Value
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3.1
3.2
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100
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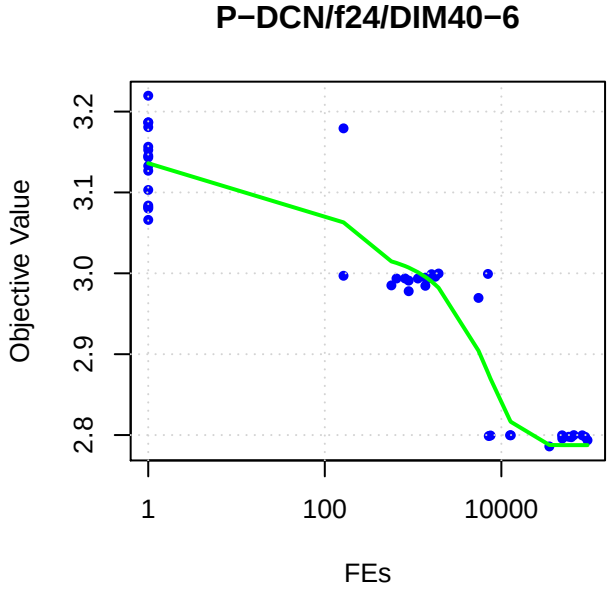
FEs


P−DCN/f24/DIM40−6
Objective Value
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2.9
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3.1
3.2
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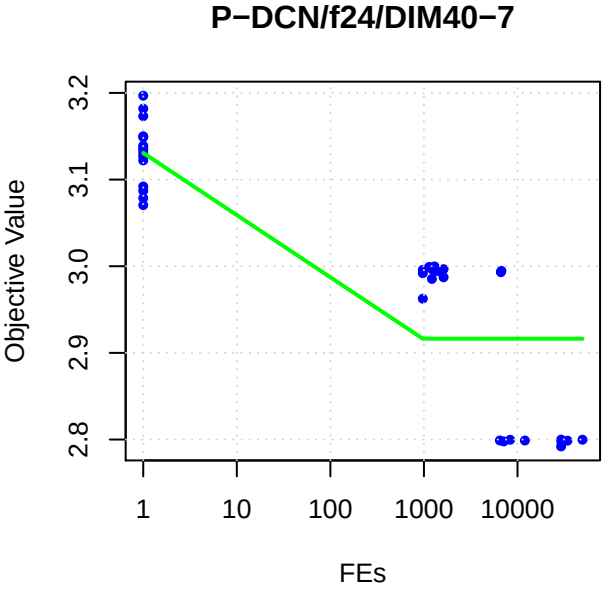
10000
FEs


P−DCN/f24/DIM40−7
Objective Value
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2.9
3.0
3.1
3.2
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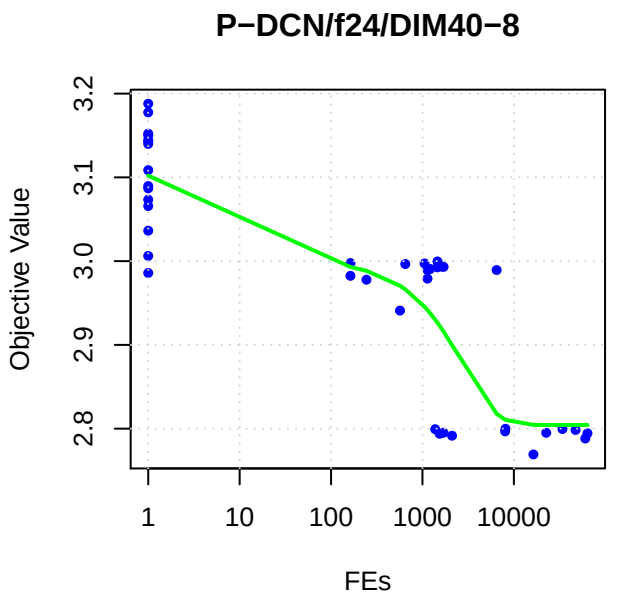
10000
FEs


P−DCN/f24/DIM40−8
Objective Value
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3.0
2.9
2.8
1
10
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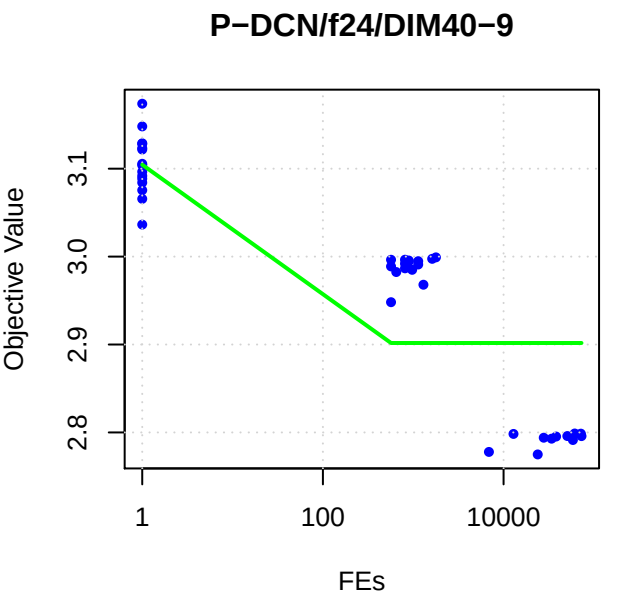
1000
10000
FEs


P−DCN/f24/DIM40−9
Objective Value
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3.0
2.9
2.8
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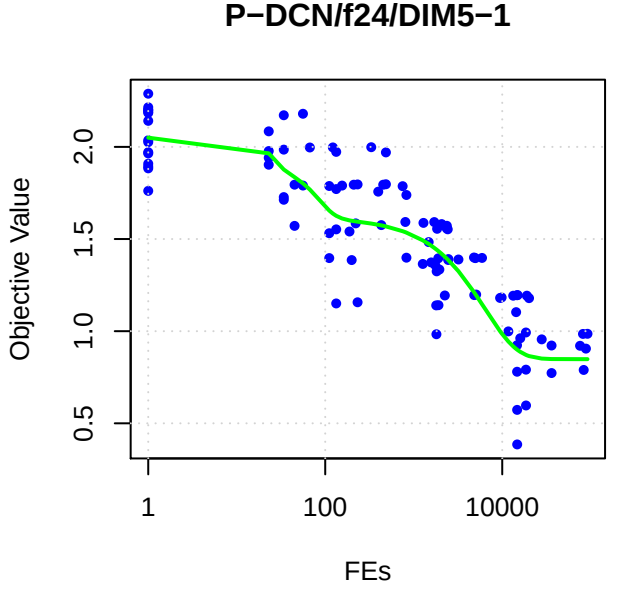
10000
FEs


P−DCN/f24/DIM5−1
Objective Value
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1.0
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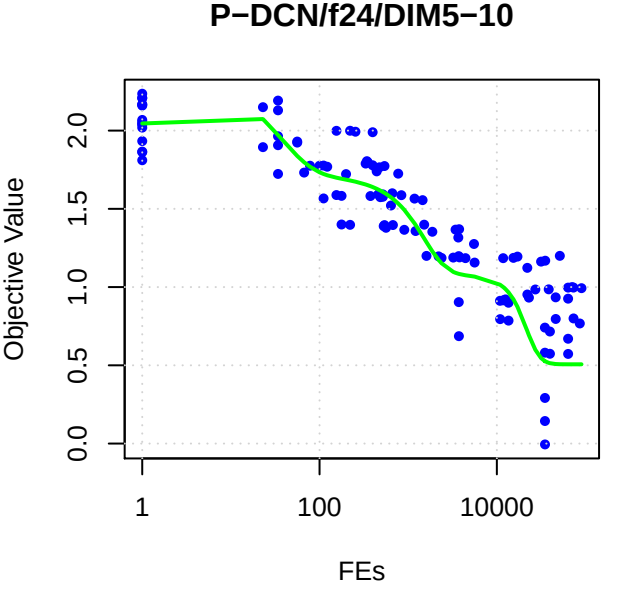
100
10000
FEs


P−DCN/f24/DIM5−10
Objective Value
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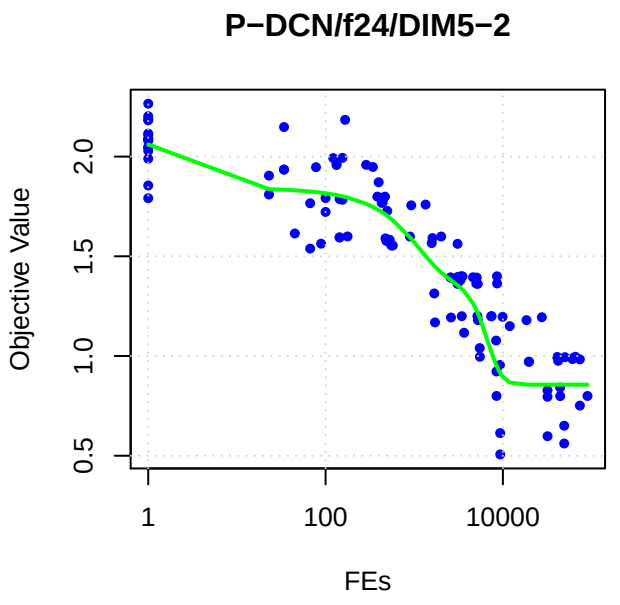
1.5
1.0
0.5
0.0
1
100
10000
FEs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Objective Value
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1.5
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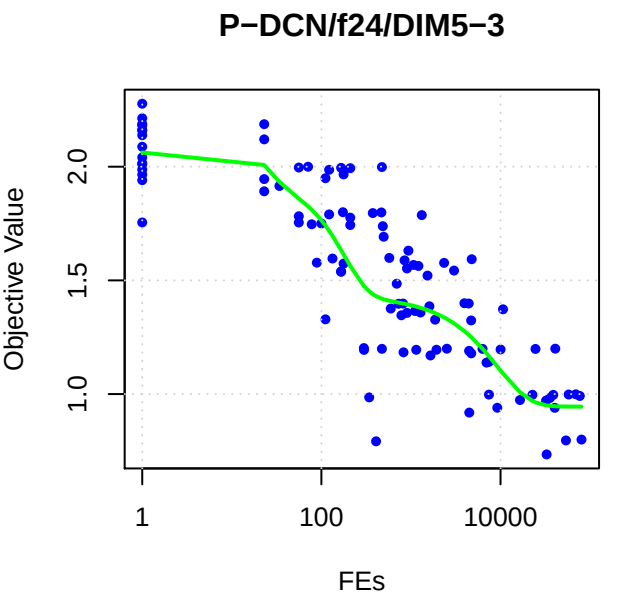
100
10000
FEs


P−DCN/f24/DIM5−3
Objective Value
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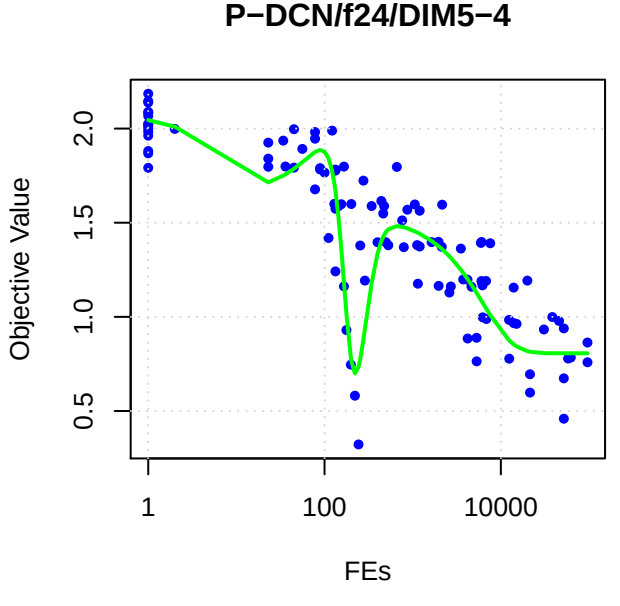
1.5
2.0
1
100
10000
FEs


P−DCN/f24/DIM5−4
Objective Value
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1.5
2.0
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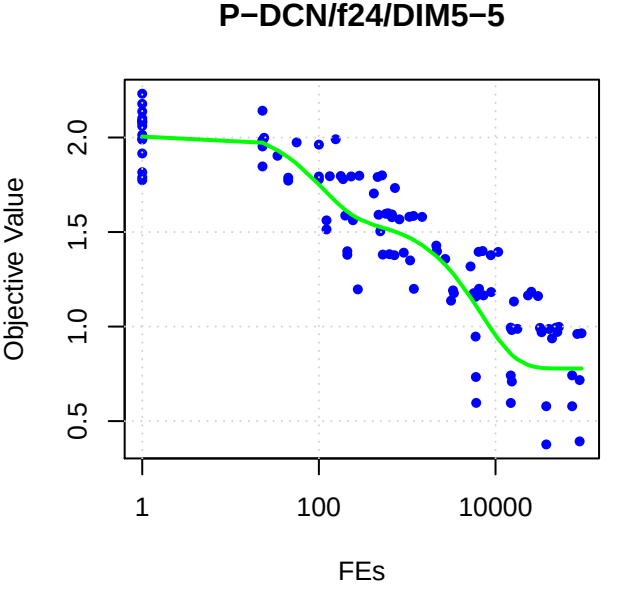
10000
FEs


P−DCN/f24/DIM5−5
Objective Value
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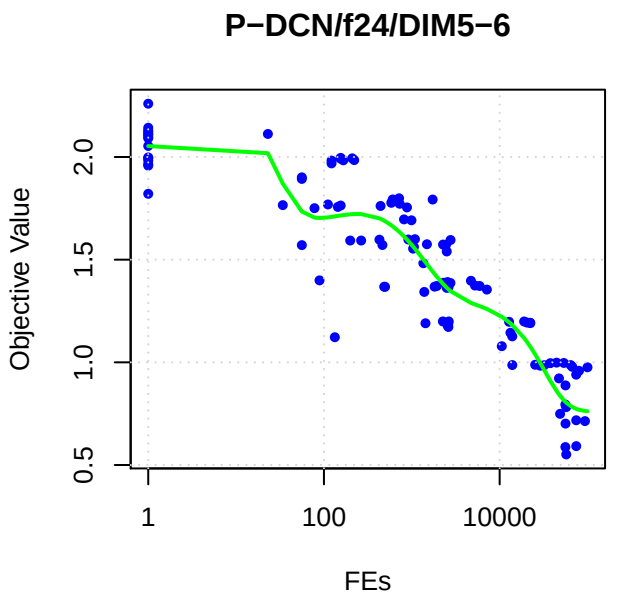
1.5
2.0
1
100
10000
FEs


P−DCN/f24/DIM5−6
Objective Value
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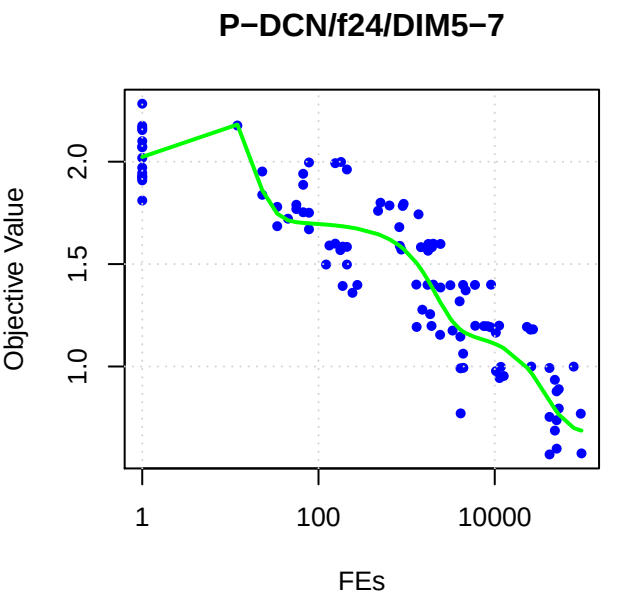
1.5
2.0
1
100
10000
FEs


P−DCN/f24/DIM5−7
Objective Value
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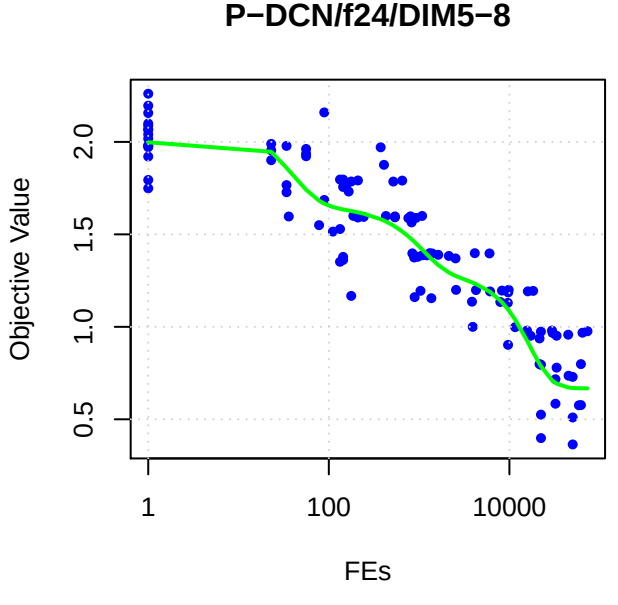
1.5
2.0
1
100
10000
FEs


P−DCN/f24/DIM5−8
Objective Value
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1.0
1.5
2.0
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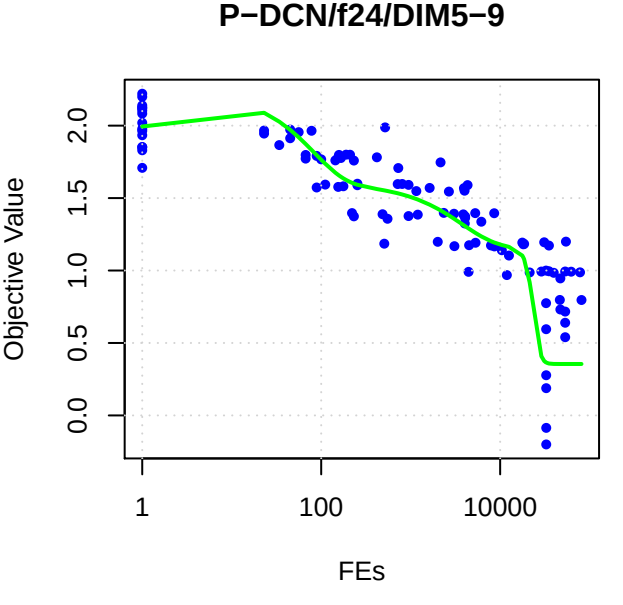
10000
FEs


P−DCN/f24/DIM5−9
Objective Value
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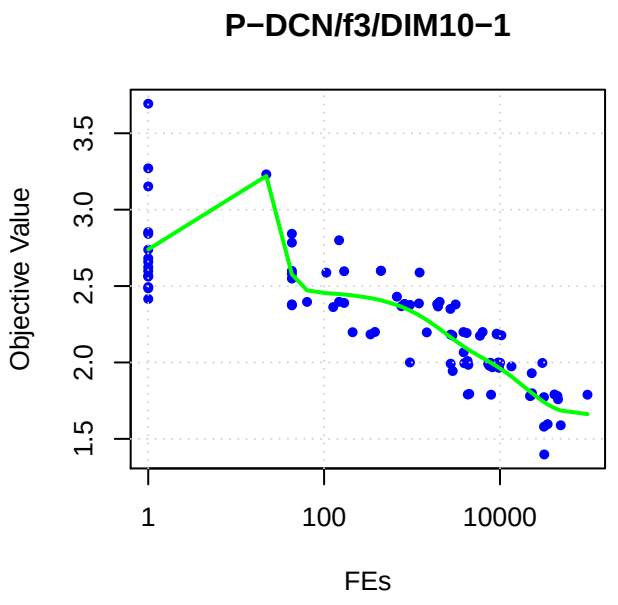
0.5
1.0
1.5
2.0
1
100
10000
FEs


P−DCN/f3/DIM10−1
Objective Value
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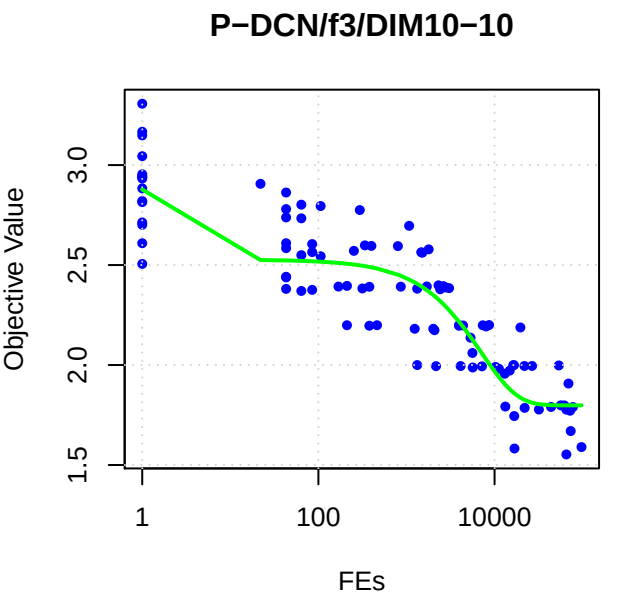
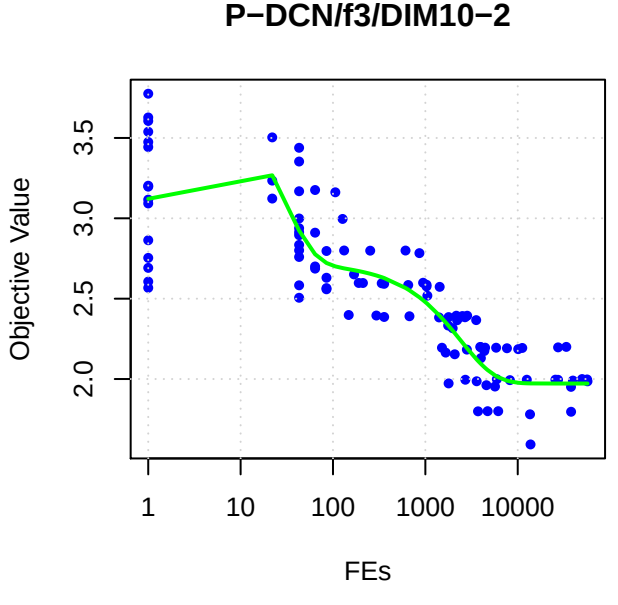
2.0
2.5
3.0
3.5
1
100
10000
FEs


P−DCN/f3/DIM10−10
Objective Value
1.5
2.0
2.5
3.0
1
100
10000
FEs


P−DCN/f3/DIM10−2
Objective Value
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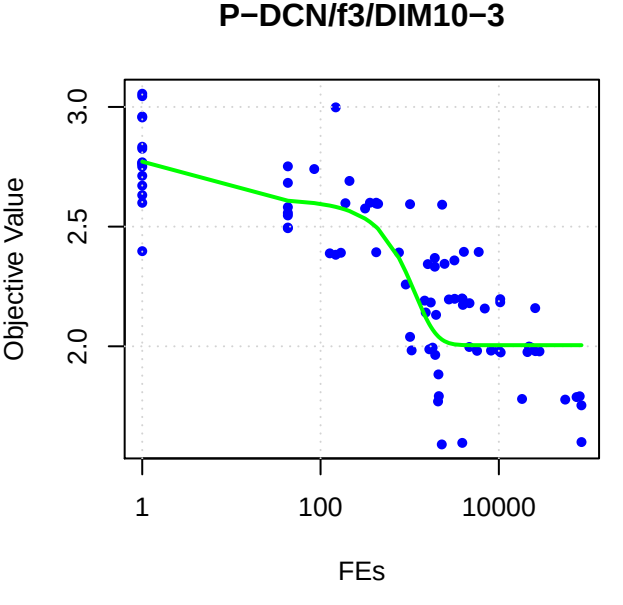
2.5
3.0
3.5
1
10
100
1000
10000
FEs


P−DCN/f3/DIM10−3
Objective Value
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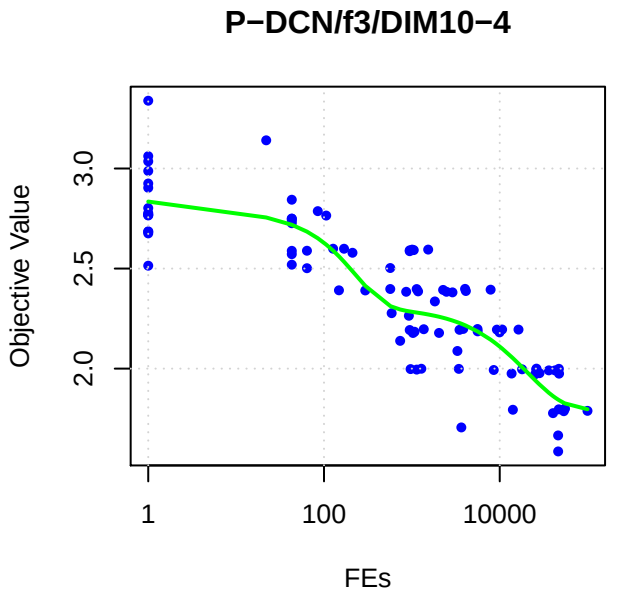
2.5
3.0
1
100
10000
FEs


P−DCN/f3/DIM10−4
Objective Value
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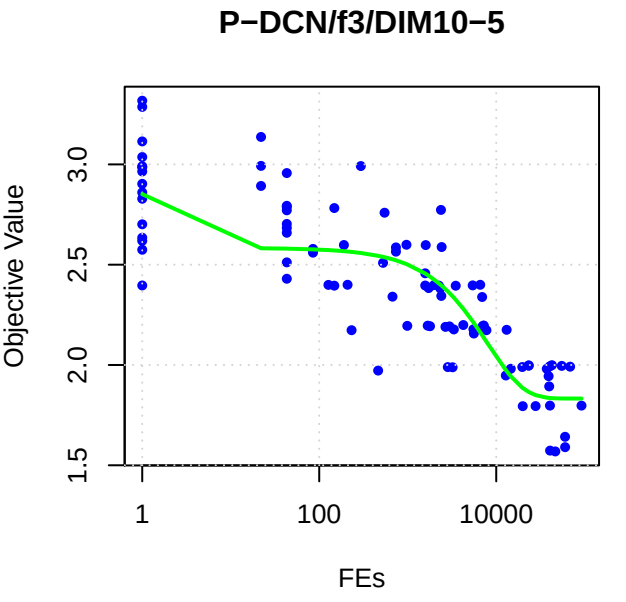
2.5
3.0
1
100
10000
FEs


P−DCN/f3/DIM10−5
Objective Value
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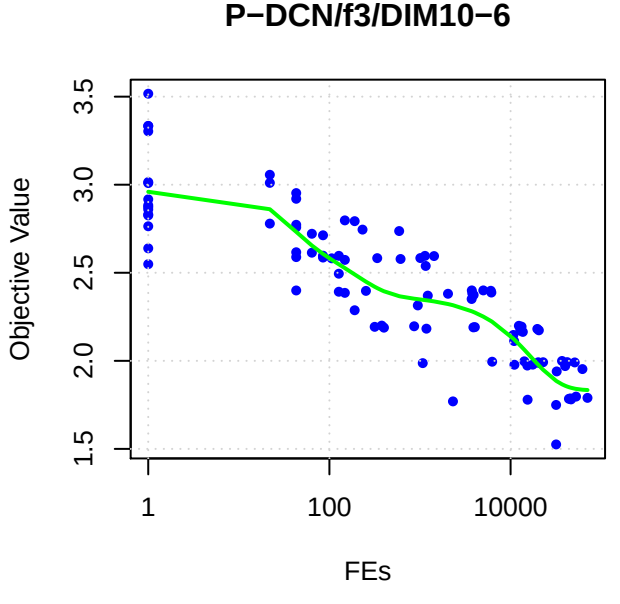
2.0
2.5
3.0
1
100
10000
FEs


P−DCN/f3/DIM10−6
Objective Value
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2.0
2.5
3.0
3.5
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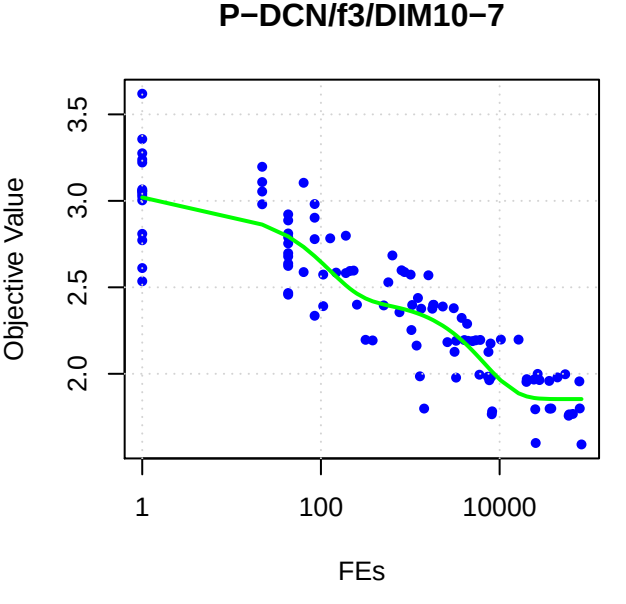
100
10000
FEs


P−DCN/f3/DIM10−7
Objective Value
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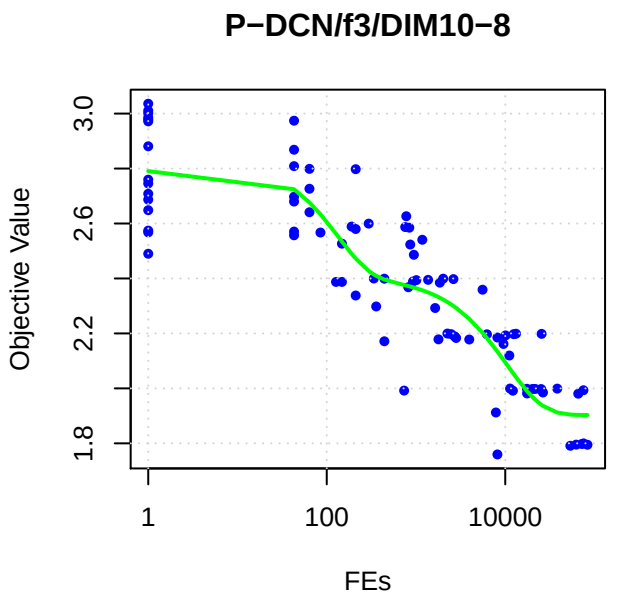
2.5
3.0
3.5
1
100
10000
FEs


P−DCN/f3/DIM10−8
Objective Value
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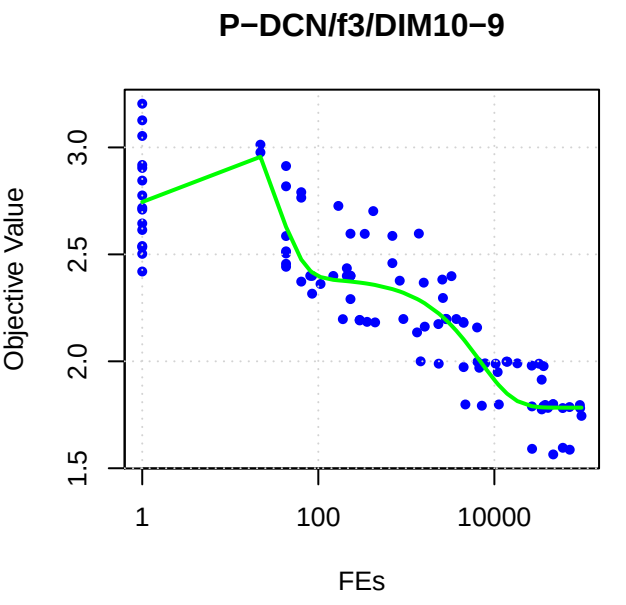
2.6
2.2
1.8
1
100
10000
FEs


P−DCN/f3/DIM10−9
Objective Value
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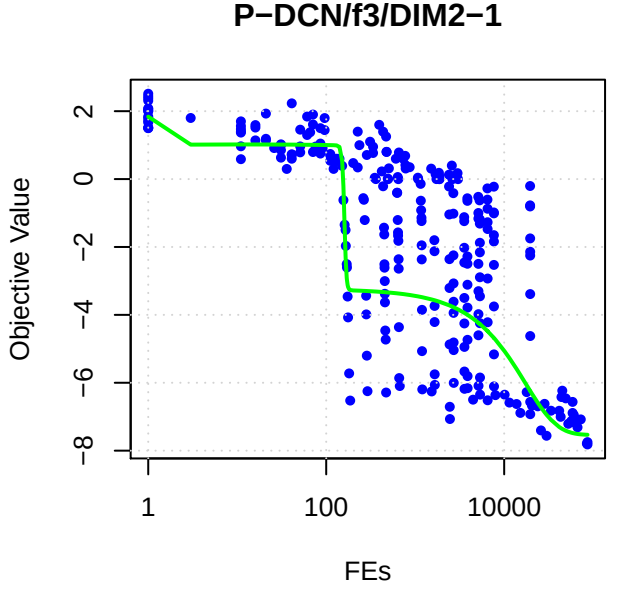
2.5
2.0
1.5
1
100
10000
FEs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Objective Value
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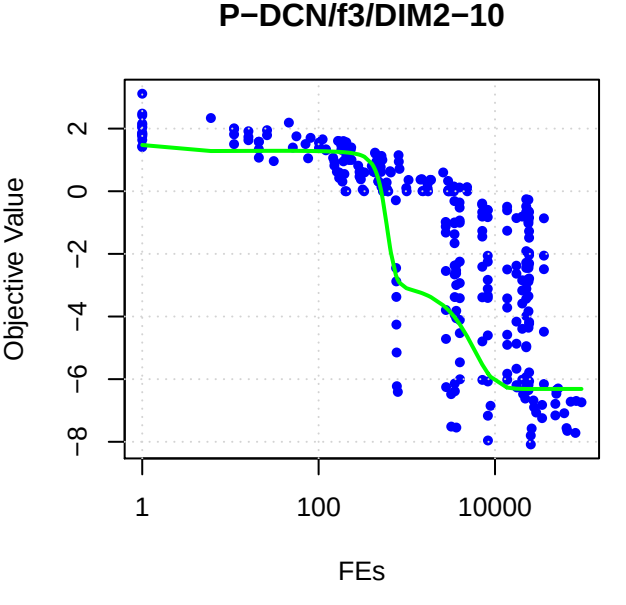
−2
−4
−6
−8
1
100
10000
FEs


P−DCN/f3/DIM2−10
Objective Value
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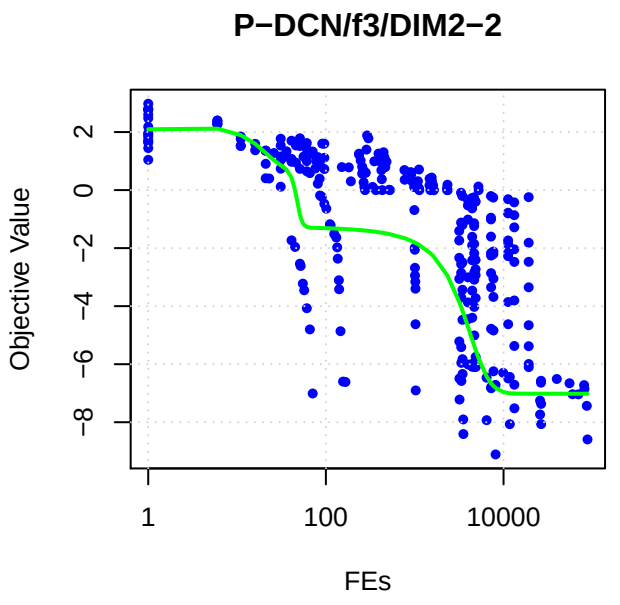
−2
−4
−6
−8
1
100
10000
FEs


P−DCN/f3/DIM2−2
Objective Value
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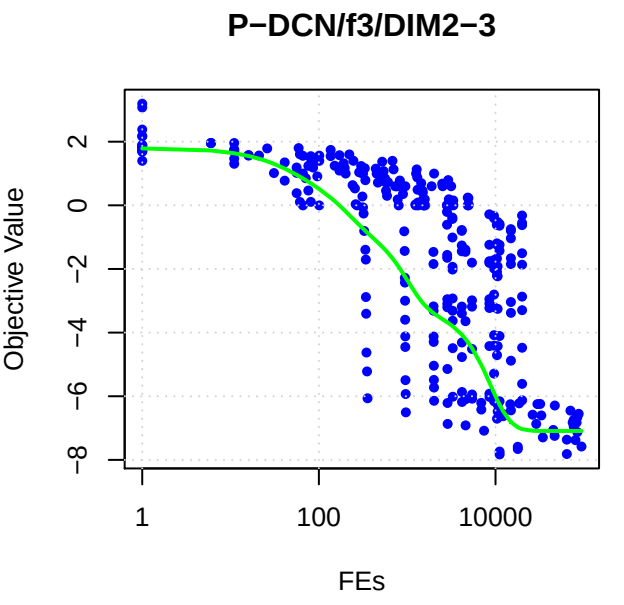
−2
−4
−6
−8
1
100
10000
FEs


P−DCN/f3/DIM2−3
Objective Value
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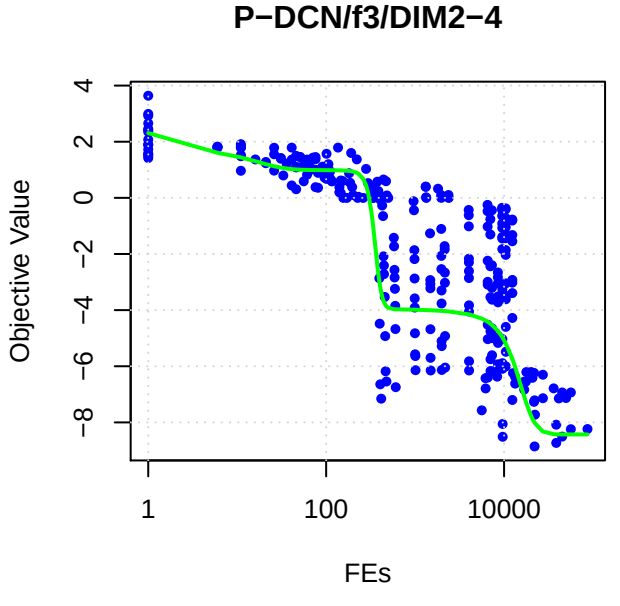
−2
−4
−6
−8
1
100
10000
FEs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Objective Value
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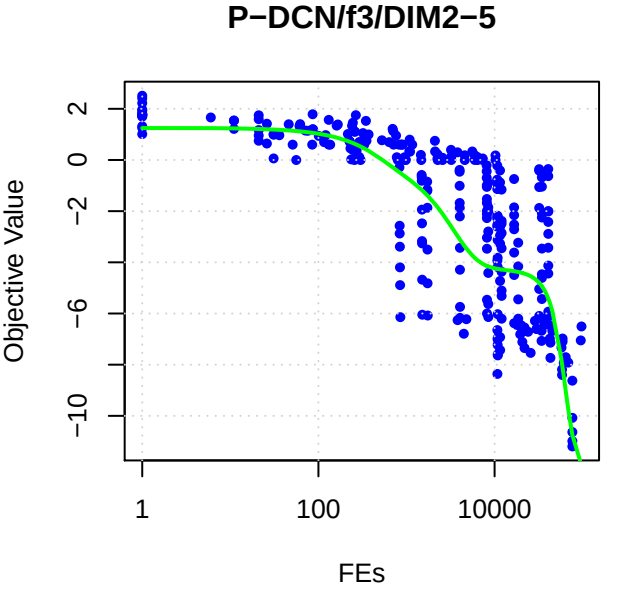
2
0
−2
−4
−6
−8
1
100
10000
FEs


P−DCN/f3/DIM2−5
Objective Value
2
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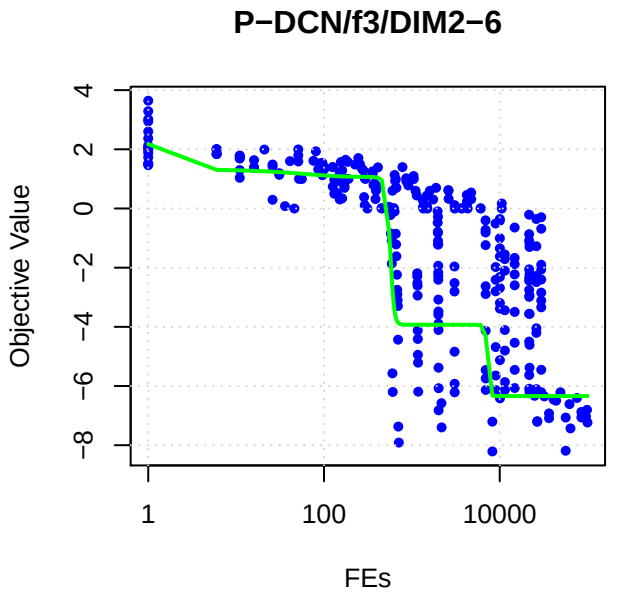
−2
−6
−10
1
100
10000
FEs


P−DCN/f3/DIM2−6
Objective Value
FEs
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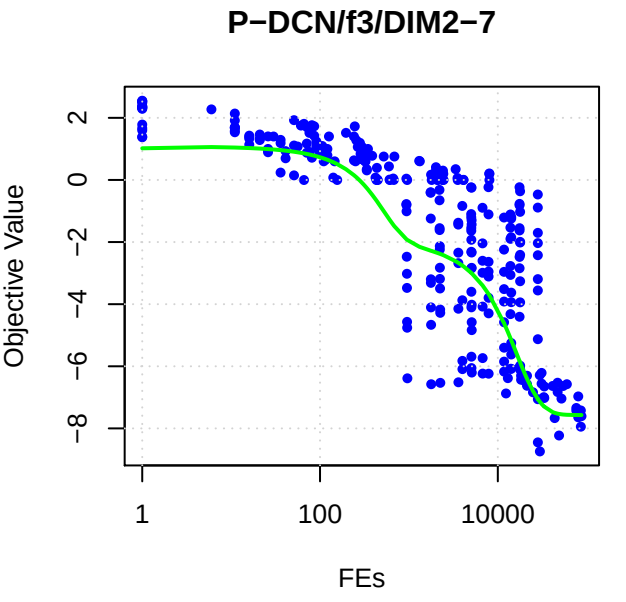
2
0
−2
−4
−6
−8
1
100
10000


P−DCN/f3/DIM2−7
Objective Value
FEs
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−2
−4
−6
−8
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100
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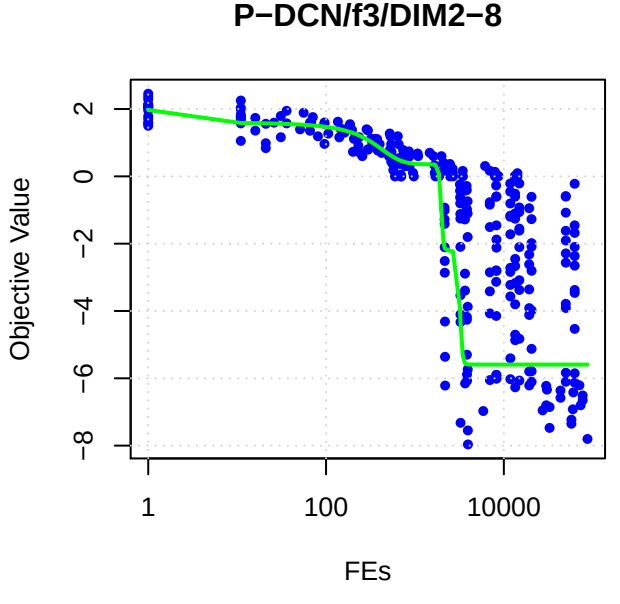
P−DCN/f3/DIM2−8
Objective Value
FEs
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−2
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−6
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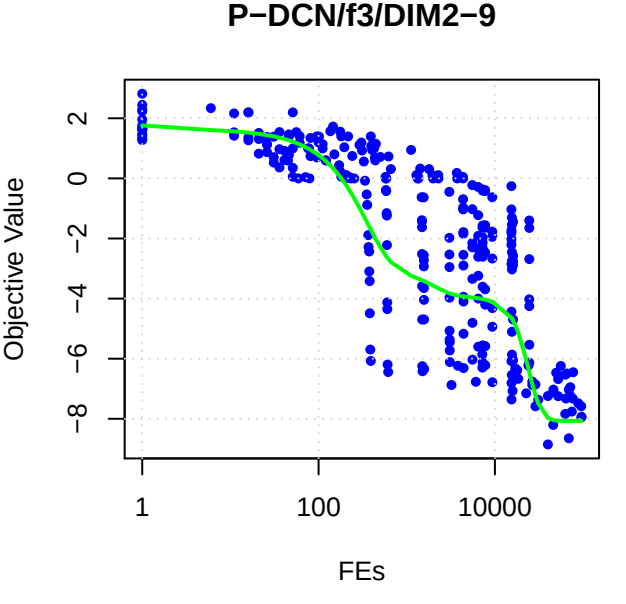
P−DCN/f3/DIM2−9
Objective Value
FEs
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−2
−4
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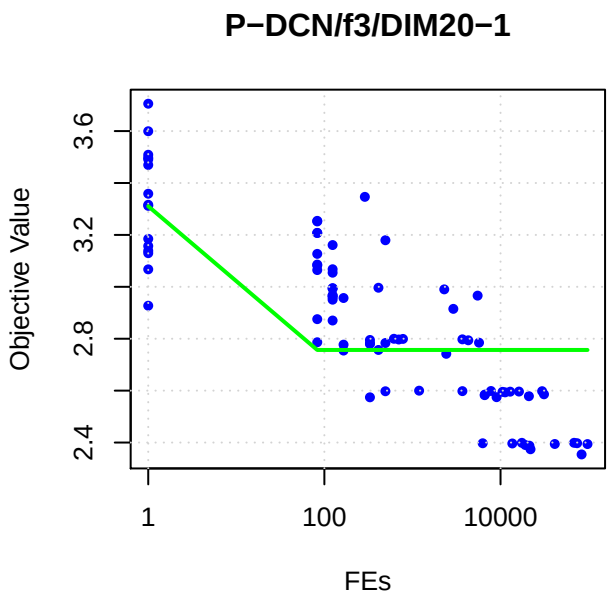
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Objective Value
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2.8
3.2
3.6
1
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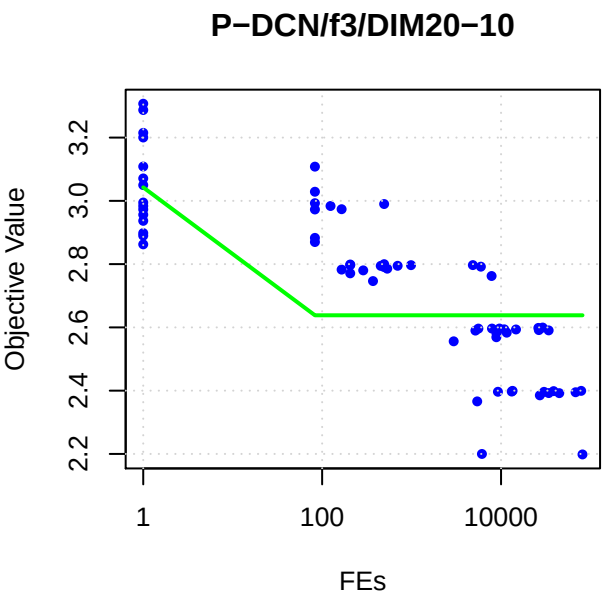
10000
FEs


P−DCN/f3/DIM20−10
Objective Value
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2.4
2.6
2.8
3.0
3.2
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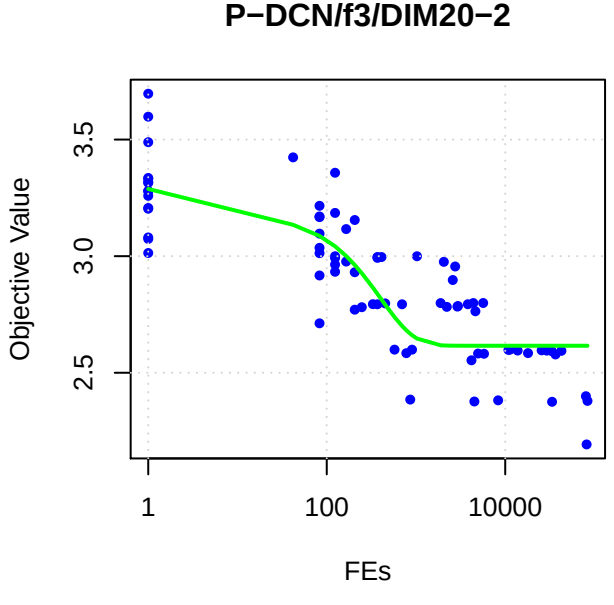
100
10000
FEs


P−DCN/f3/DIM20−2
Objective Value
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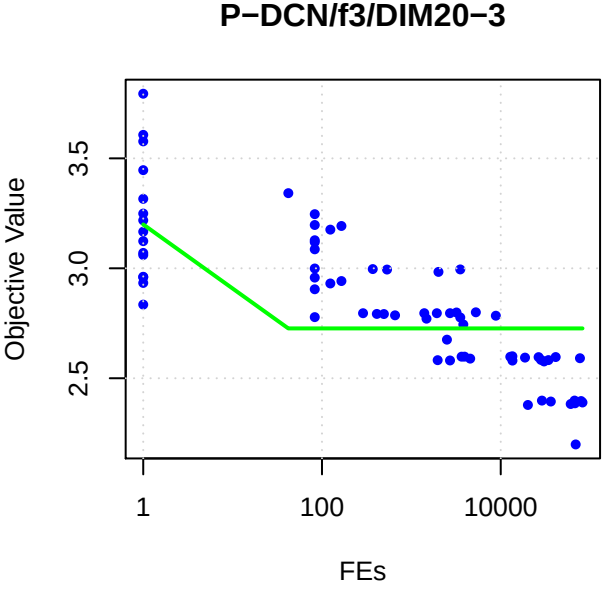
3.0
3.5
1
100
10000
FEs


P−DCN/f3/DIM20−3
Objective Value
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3.0
3.5
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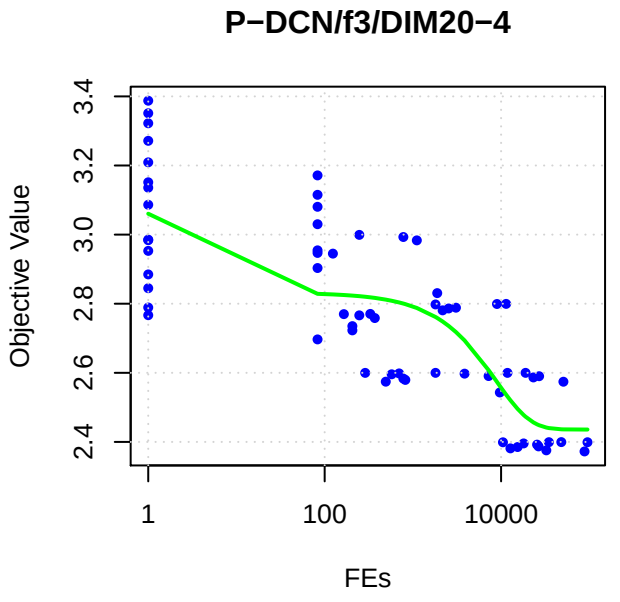
100
10000
FEs


P−DCN/f3/DIM20−4
Objective Value
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3.2
3.0
2.8
2.6
2.4
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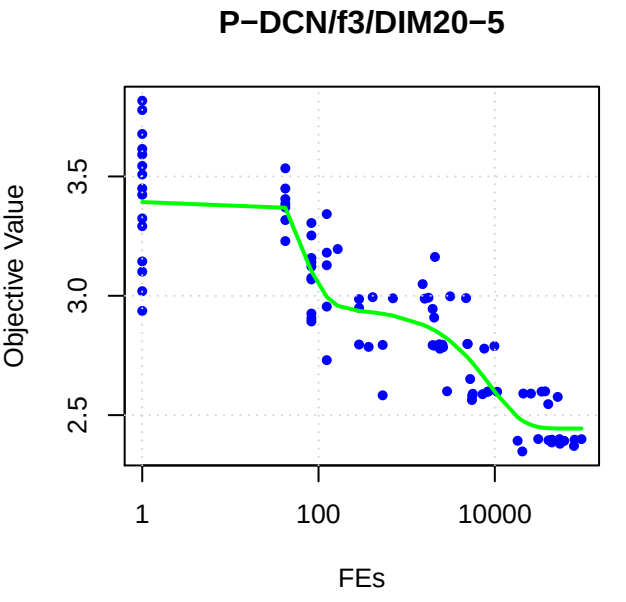
100
10000
FEs


P−DCN/f3/DIM20−5
Objective Value
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2.5
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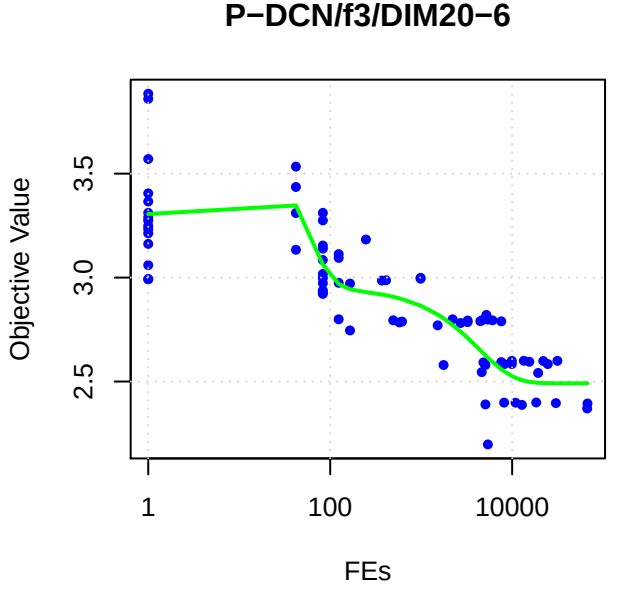
10000
FEs


P−DCN/f3/DIM20−6
Objective Value
3.5
3.0
2.5
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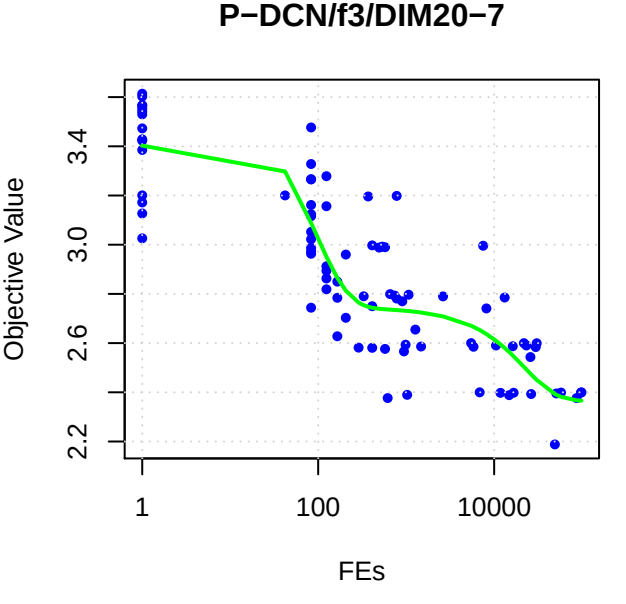
100
10000
FEs


P−DCN/f3/DIM20−7
Objective Value
3.4
3.0
2.6
2.2
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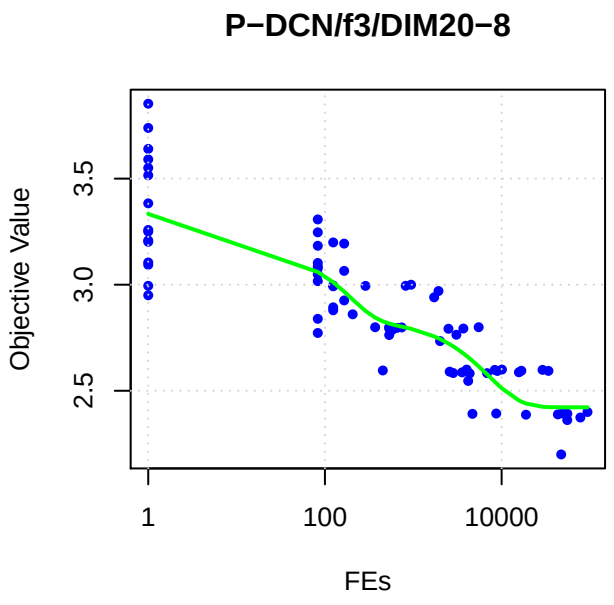
100
10000
FEs


P−DCN/f3/DIM20−8
Objective Value
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3.0
2.5
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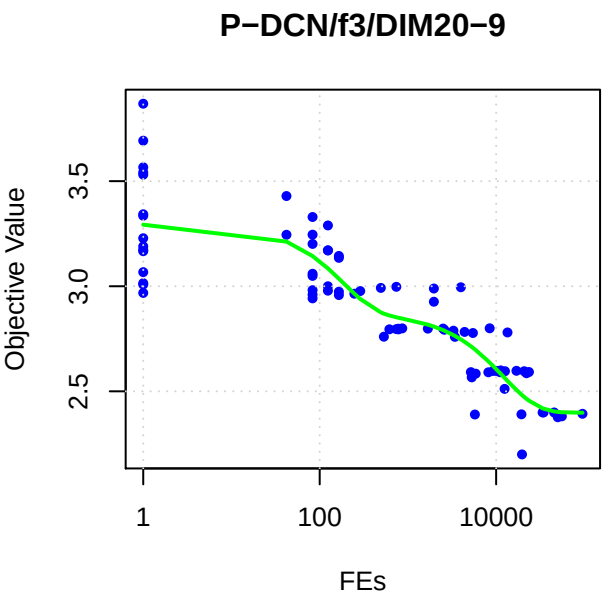
100
10000
FEs


P−DCN/f3/DIM20−9
Objective Value
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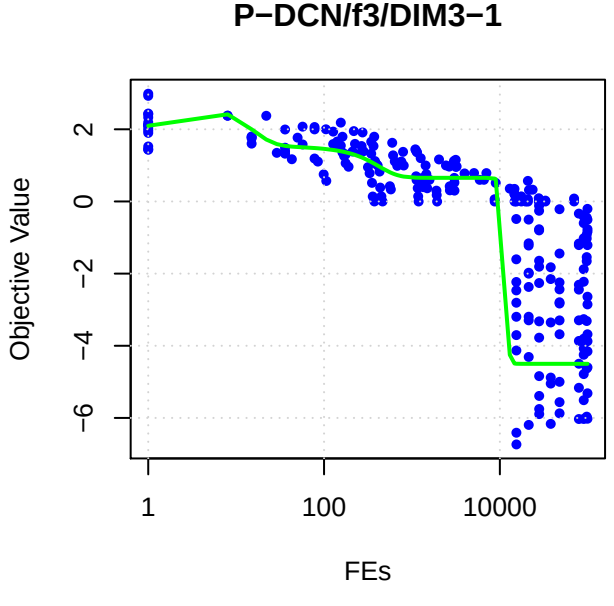
3.0
2.5
1
100
10000
FEs


P−DCN/f3/DIM3−1
Objective Value
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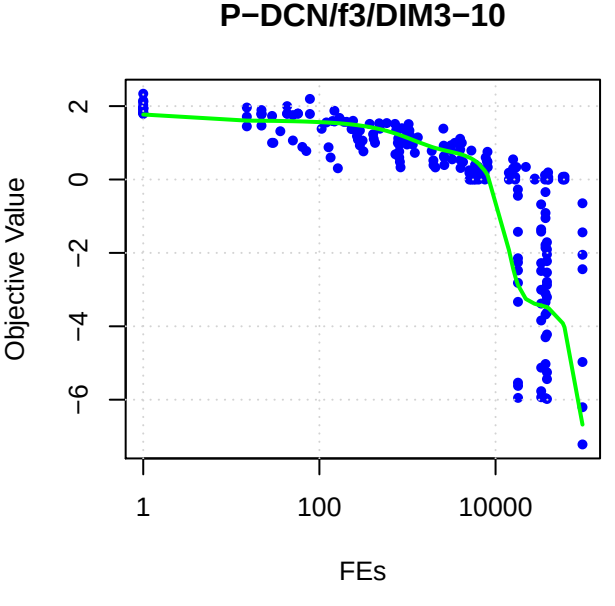
−4
−6
1
100
10000
FEs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Objective Value
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−4
−6
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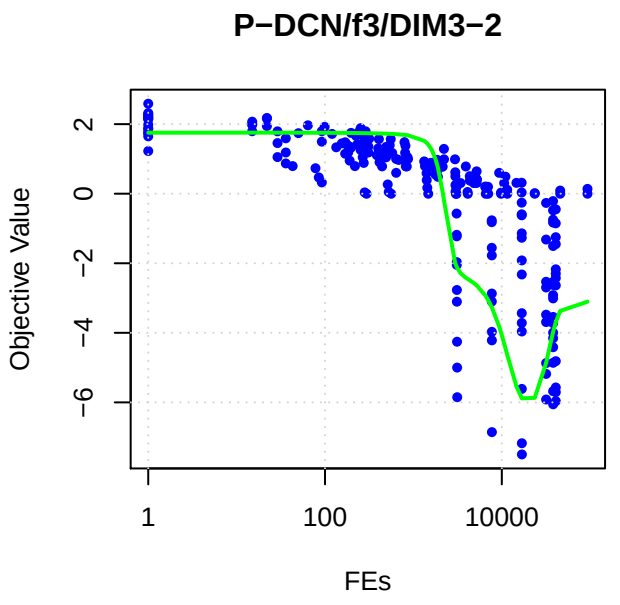
100
10000
FEs


P−DCN/f3/DIM3−2
Objective Value
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−2
−4
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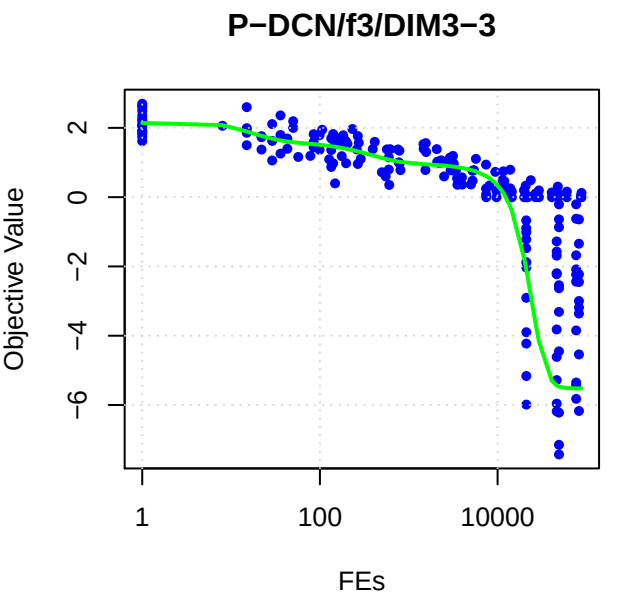
1
100
10000
FEs


P−DCN/f3/DIM3−3
Objective Value
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0
−2
−4
−6
1
100
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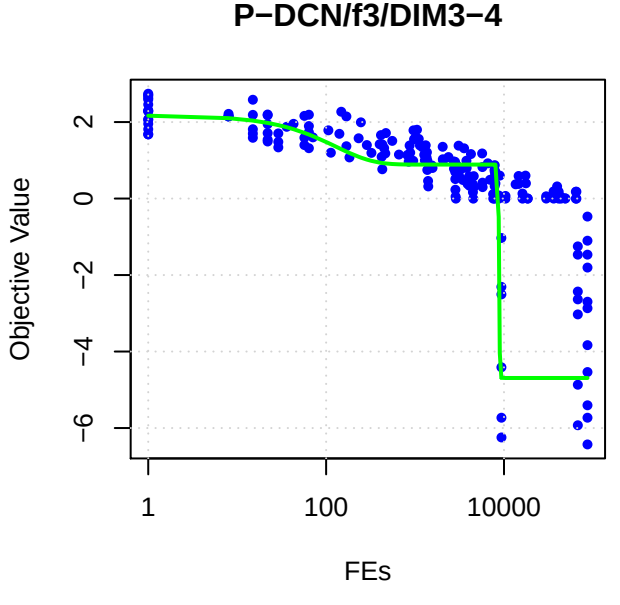
FEs


P−DCN/f3/DIM3−4
Objective Value
2
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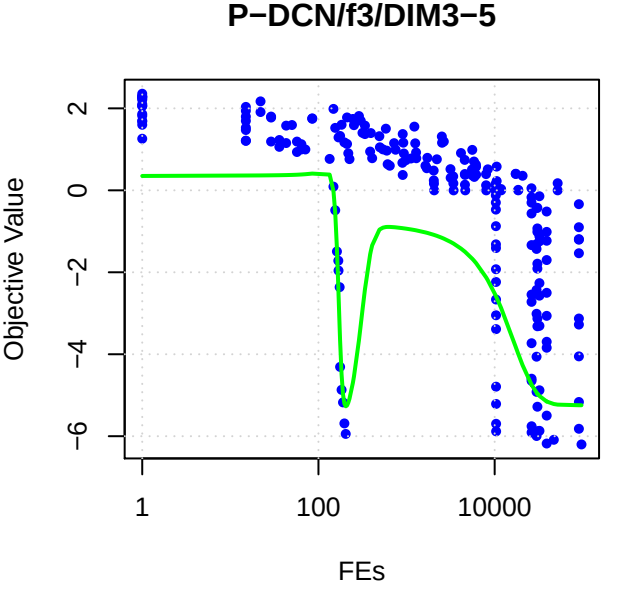
−2
−4
−6
1
100
10000
FEs


P−DCN/f3/DIM3−5
Objective Value
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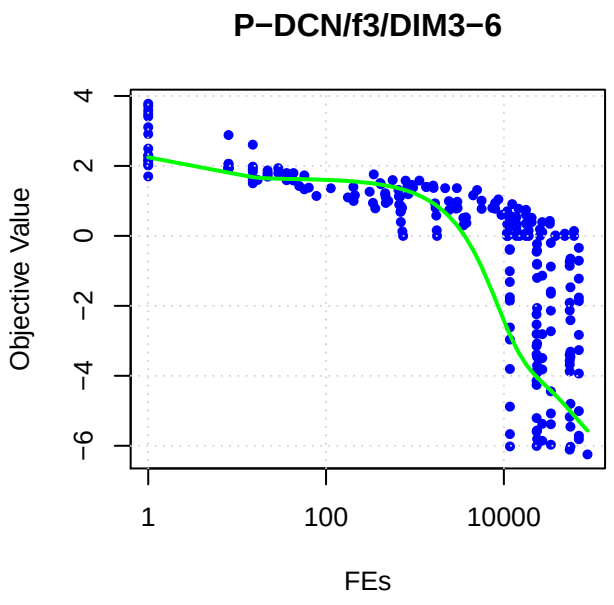
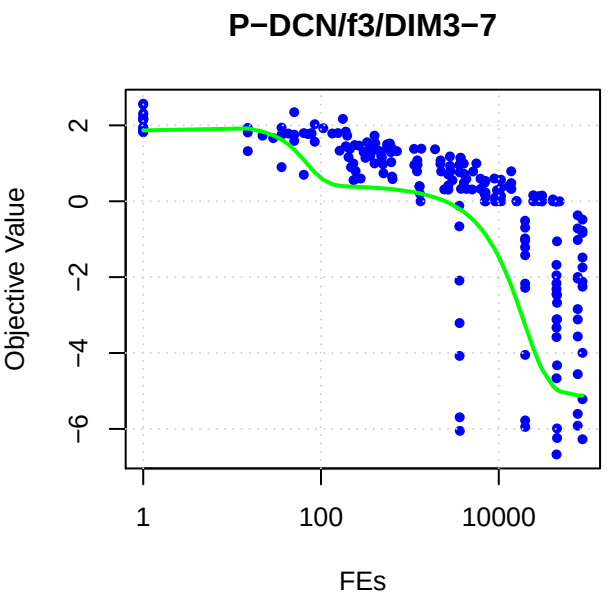
−2
−4
−6
1
100
10000
FEs


P−DCN/f3/DIM3−6
Objective Value
4
2
0
−2
−4
−6
1
100
10000
FEs


P−DCN/f3/DIM3−7
Objective Value
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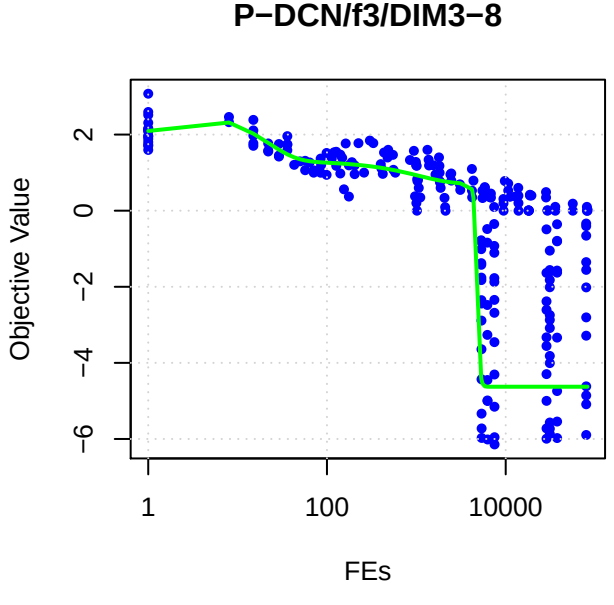
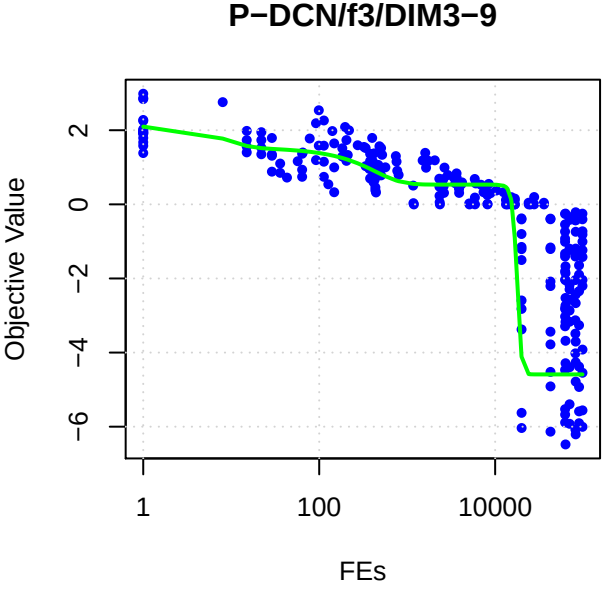
0
−2
−4
−6
1
100
10000
FEs


P−DCN/f3/DIM3−8
Objective Value
2
0
−2
−4
−6
1
100
10000
FEs


P−DCN/f3/DIM3−9
Objective Value
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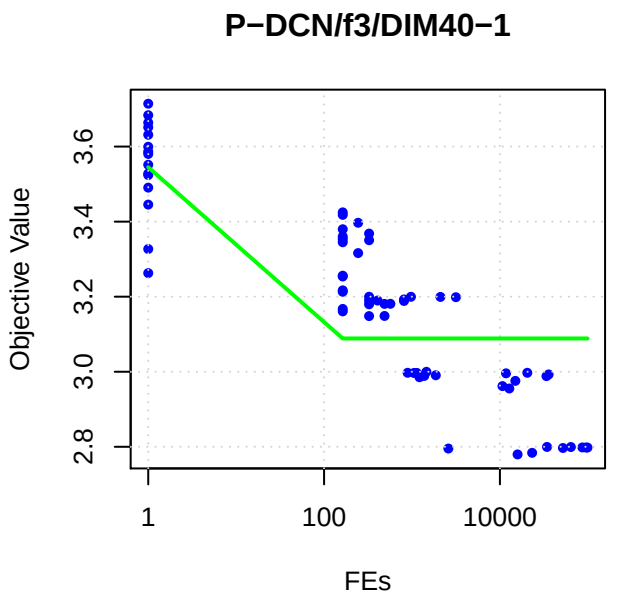
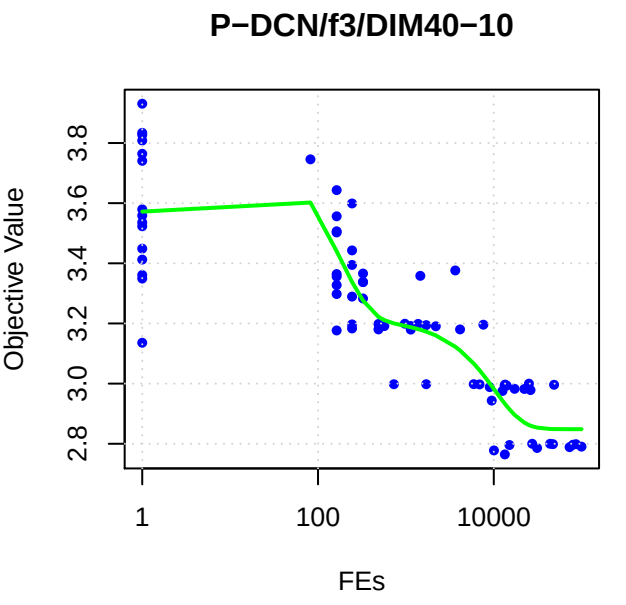
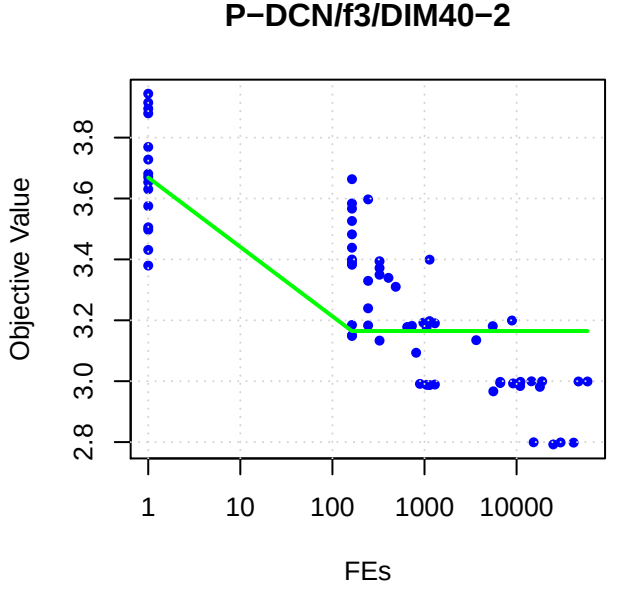
−2
−4
−6
1
100
10000
FEs


P−DCN/f3/DIM40−1
Objective Value
2.8
3.0
3.2
3.4
3.6
1
100
10000
FEs


P−DCN/f3/DIM40−10
Objective Value
2.8
3.0
3.2
3.4
3.6
3.8
1
100
10000
FEs


P−DCN/f3/DIM40−2
Objective Value
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3.0
3.2
3.4
3.6
3.8
1
10
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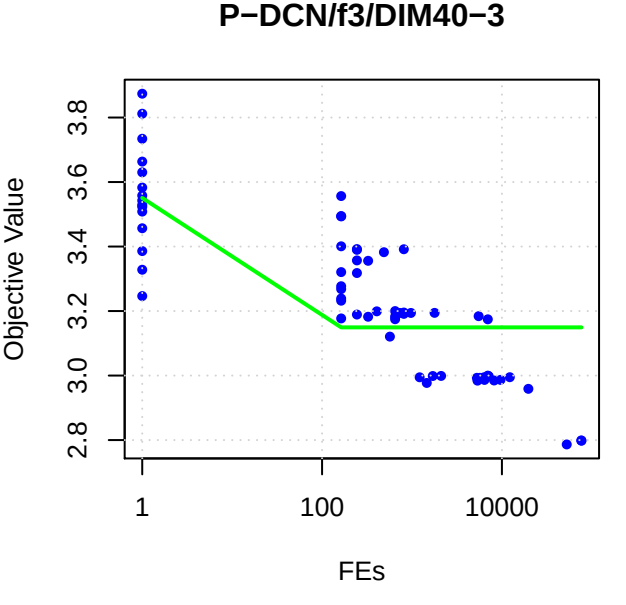
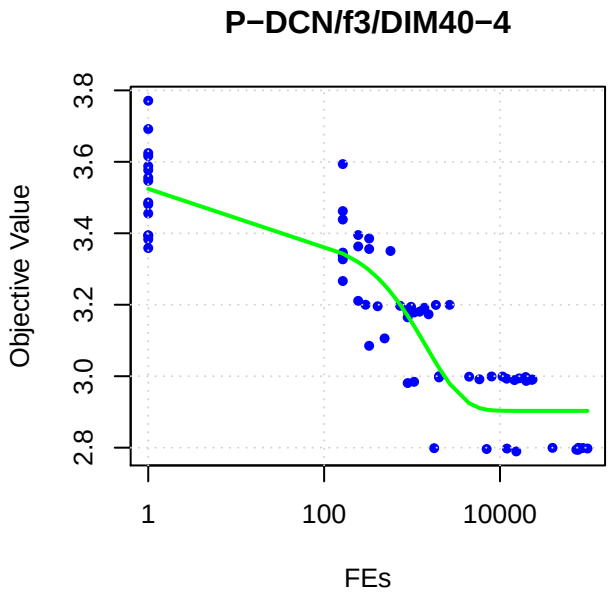
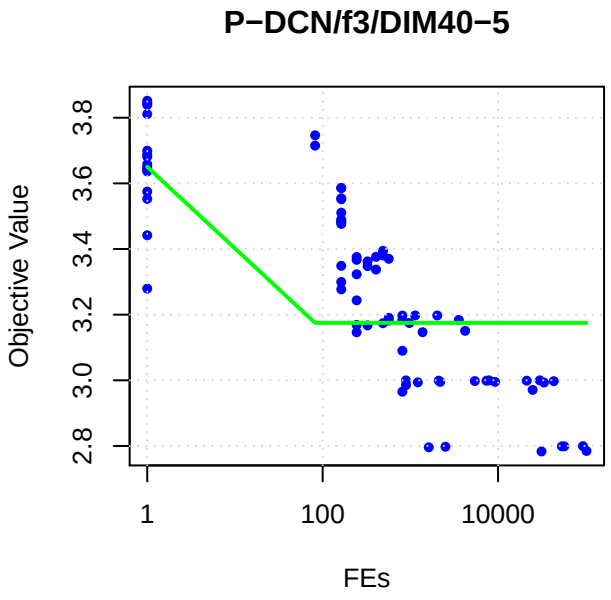
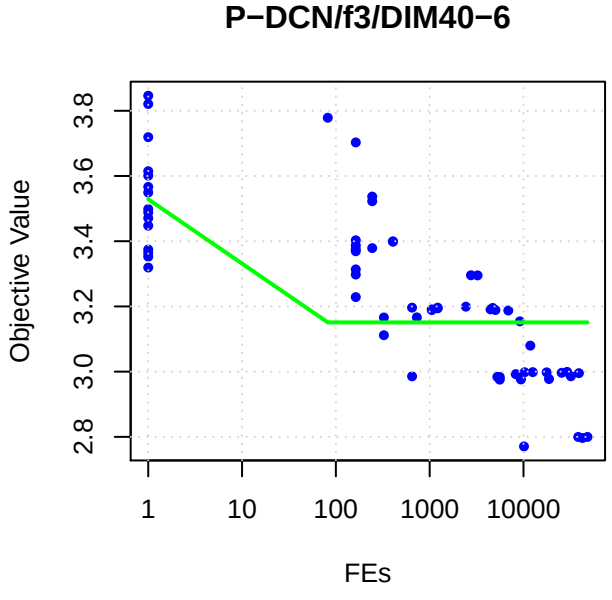
1000
10000
FEs


P−DCN/f3/DIM40−3
Objective Value
2.8
3.0
3.2
3.4
3.6
3.8
1
100
10000
FEs


P−DCN/f3/DIM40−4
Objective Value
3.8
3.6
3.4
3.2
3.0
2.8
1
100
10000
FEs


P−DCN/f3/DIM40−5
Objective Value
3.8
3.6
3.4
3.2
3.0
2.8
1
100
10000
FEs


P−DCN/f3/DIM40−6
Objective Value
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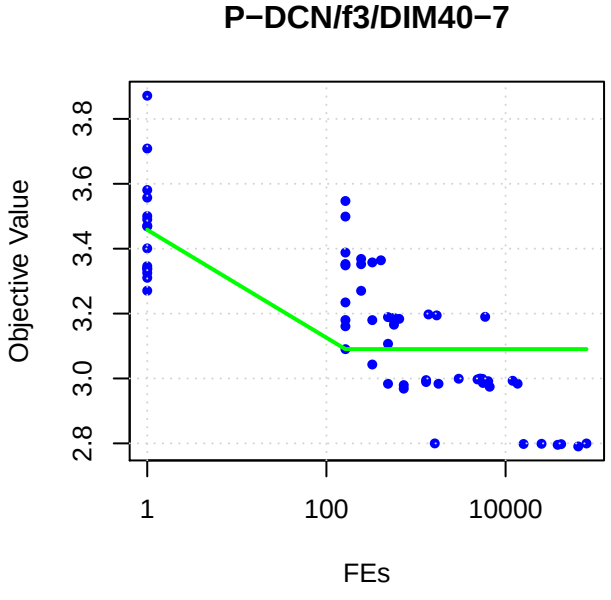
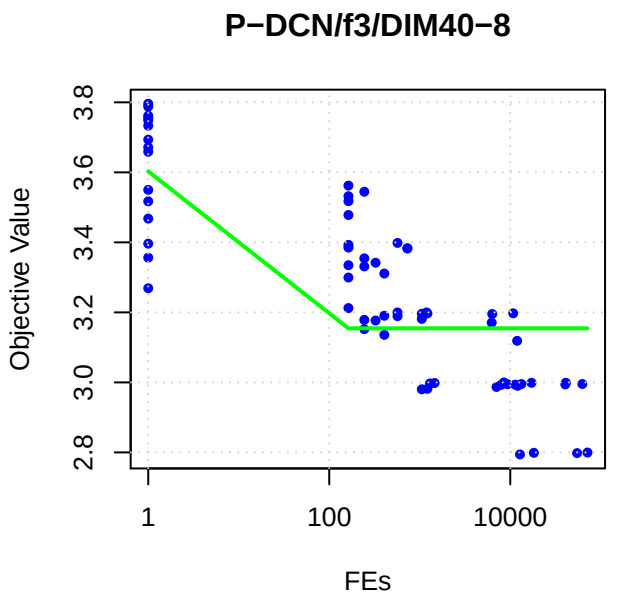
3.6
3.4
3.2
3.0
2.8
1
10
100
1000
10000
FEs


P−DCN/f3/DIM40−7
Objective Value
3.8
3.6
3.4
3.2
3.0
2.8
1
100
10000
FEs


P−DCN/f3/DIM40−8
Objective Value
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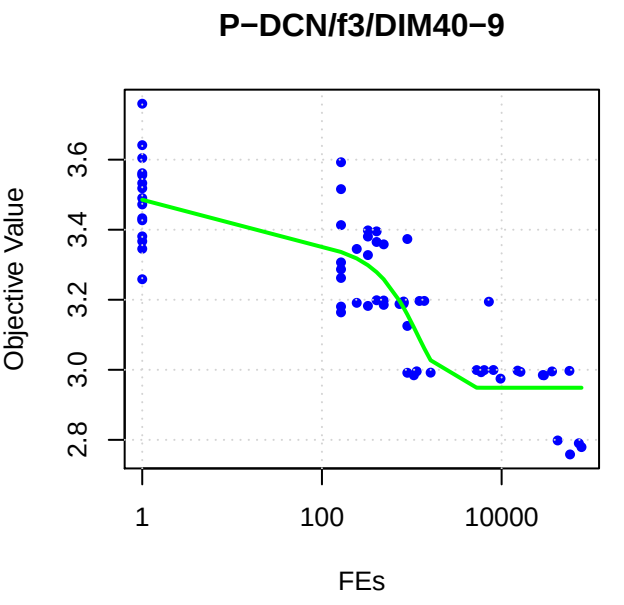
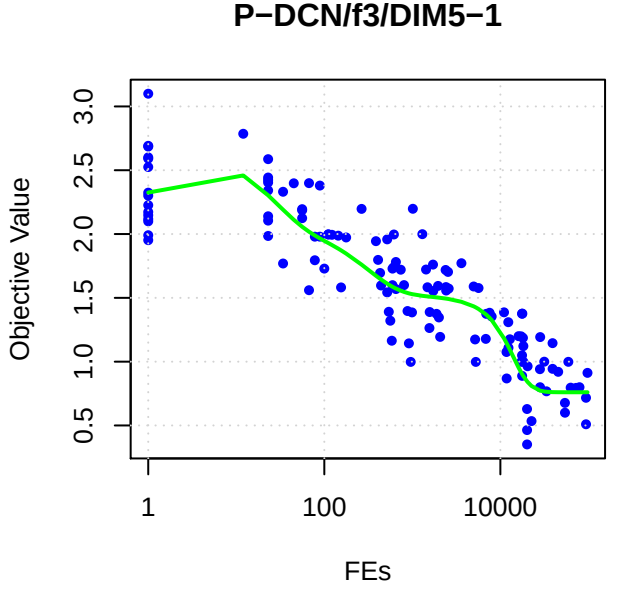
3.0
3.2
3.4
3.6
3.8
1
100
10000
FEs


P−DCN/f3/DIM40−9
Objective Value
2.8
3.0
3.2
3.4
3.6
1
100
10000
FEs


P−DCN/f3/DIM5−1
Objective Value
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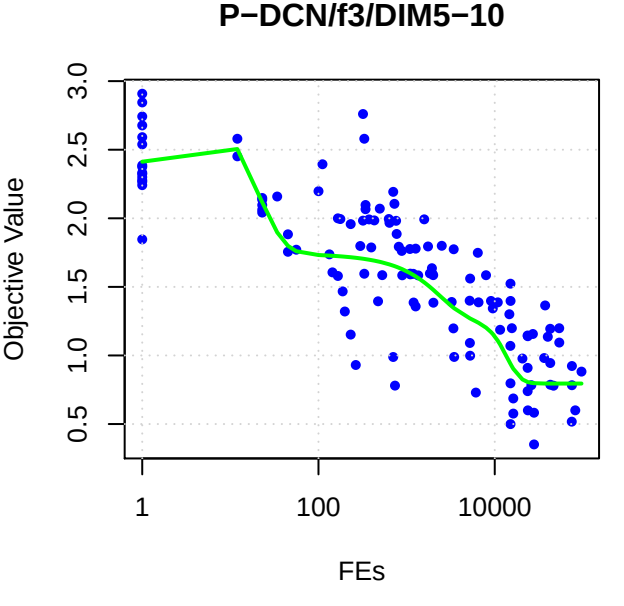
1.0
1.5
2.0
2.5
3.0
1
100
10000
FEs


P−DCN/f3/DIM5−10
Objective Value
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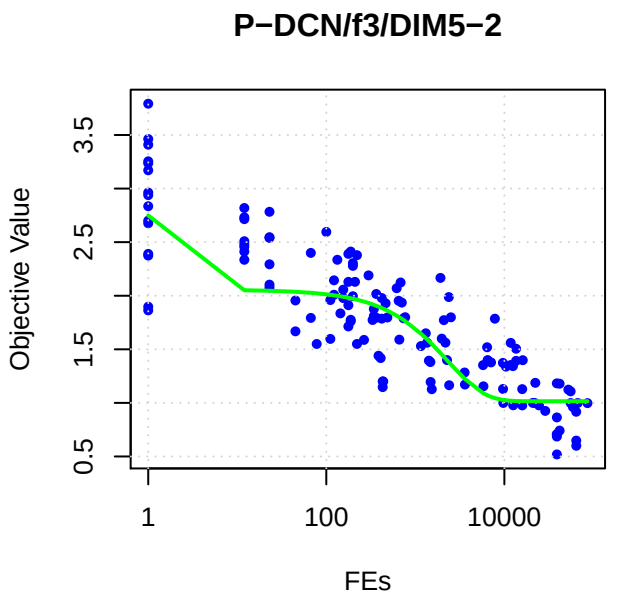
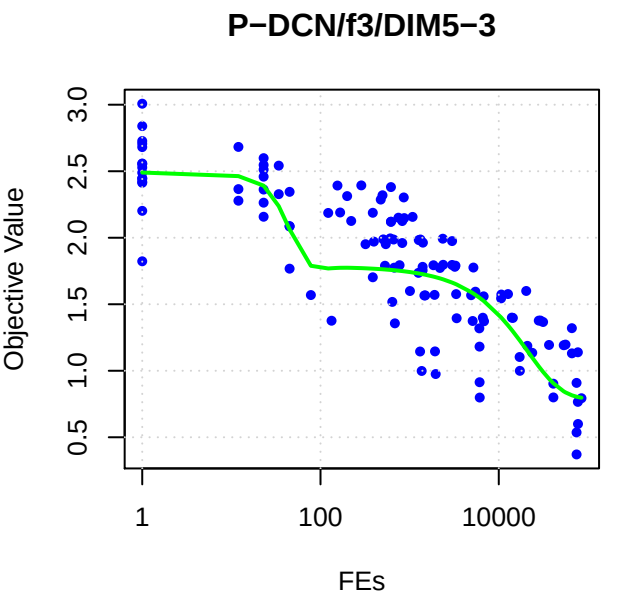
1.0
1.5
2.0
2.5
3.0
1
100
10000
FEs


P−DCN/f3/DIM5−2
Objective Value
0.5
1.5
2.5
3.5
1
100
10000
FEs


P−DCN/f3/DIM5−3
Objective Value
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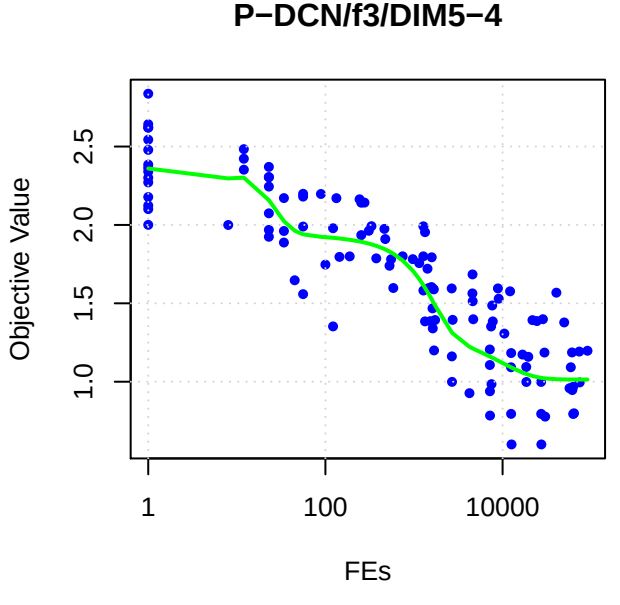
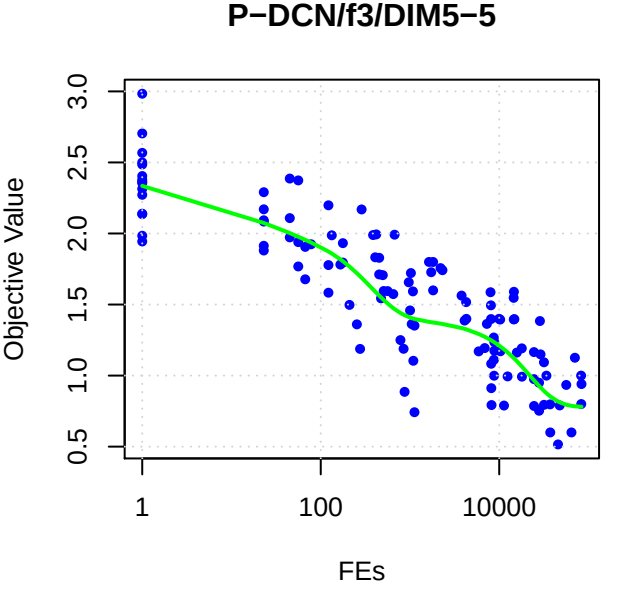
1.0
1.5
2.0
2.5
3.0
1
100
10000
FEs


P−DCN/f3/DIM5−4
Objective Value
1.0
1.5
2.0
2.5
1
100
10000
FEs


P−DCN/f3/DIM5−5
Objective Value
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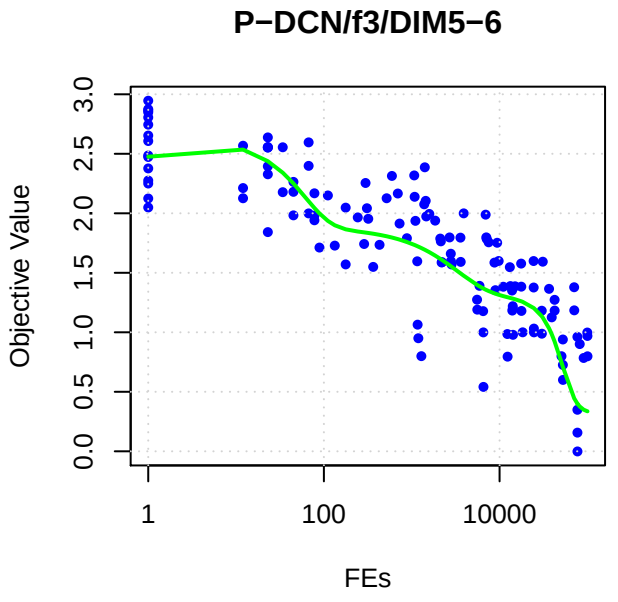
1.0
1.5
2.0
2.5
3.0
1
100
10000
FEs


P−DCN/f3/DIM5−6
Objective Value
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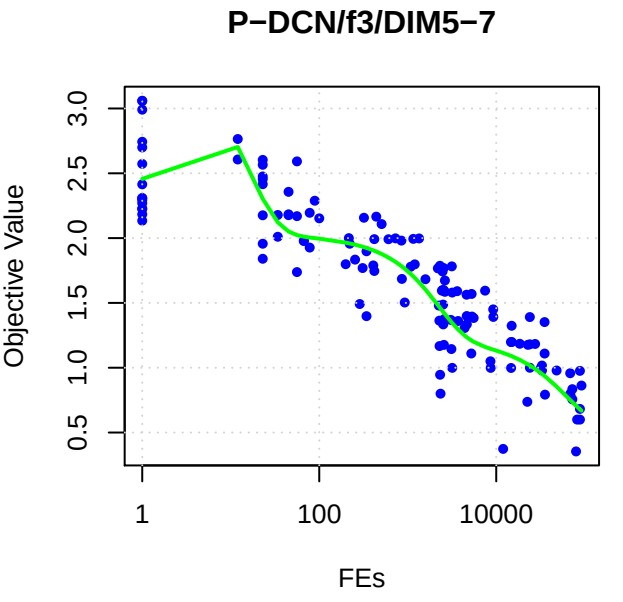
1.0
1.5
2.0
2.5
3.0
1
100
10000
FEs


P−DCN/f3/DIM5−7
Objective Value
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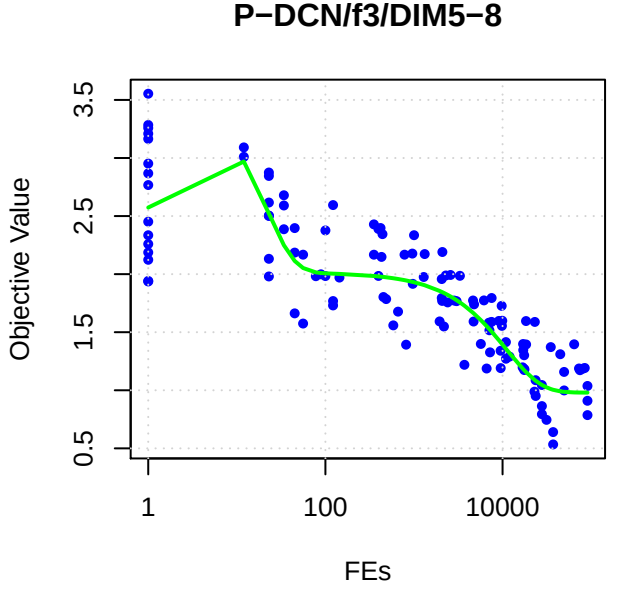
1.0
1.5
2.0
2.5
3.0
1
100
10000
FEs


P−DCN/f3/DIM5−8
Objective Value
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2.5
3.5
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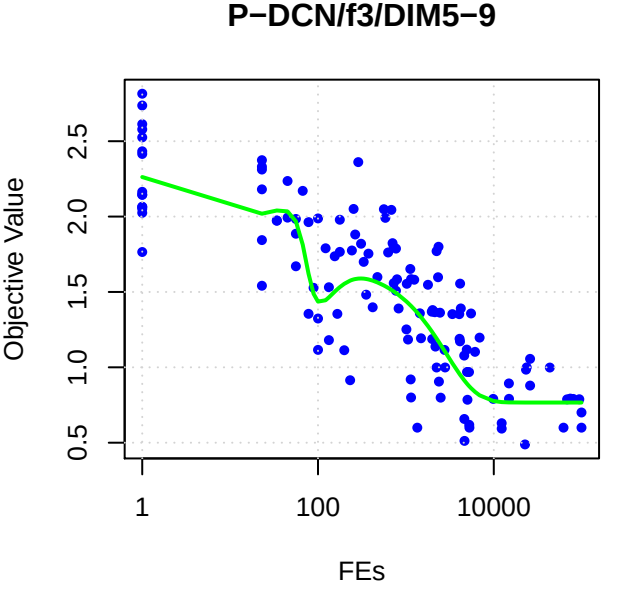
10000
FEs


P−DCN/f3/DIM5−9
Objective Value
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1.5
2.0
2.5
1
100
10000
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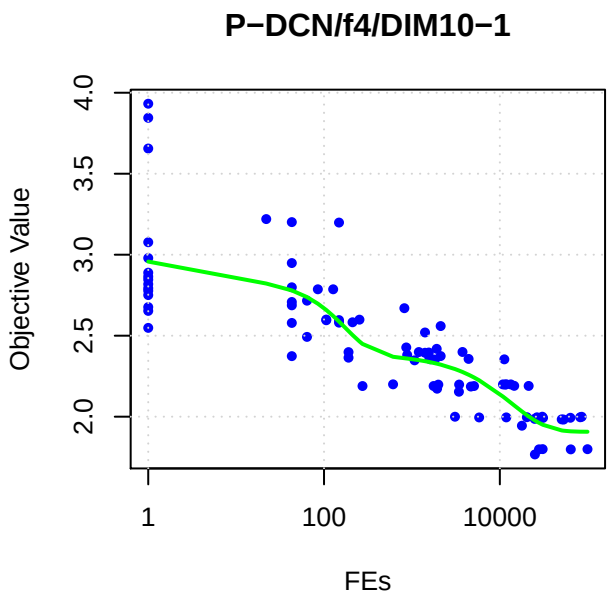
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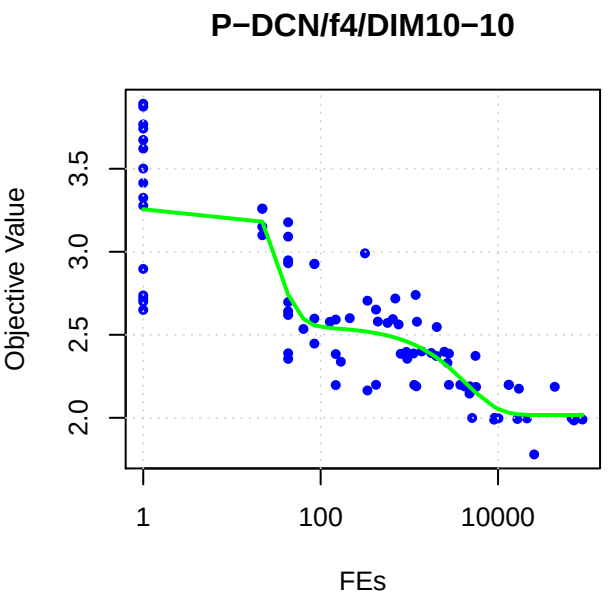
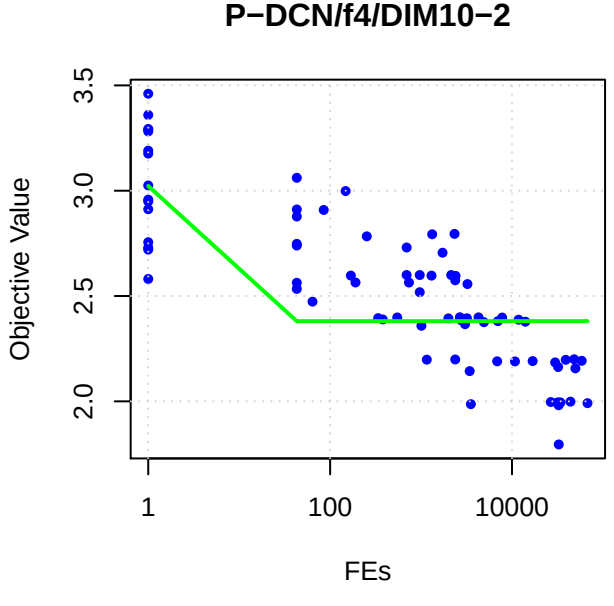
Objective Value
4.0
3.5
3.0
2.5
2.0
1
100
10000
FEs


P−DCN/f4/DIM10−10
Objective Value
3.5
3.0
2.5
2.0
1
100
10000
FEs


P−DCN/f4/DIM10−2
Objective Value
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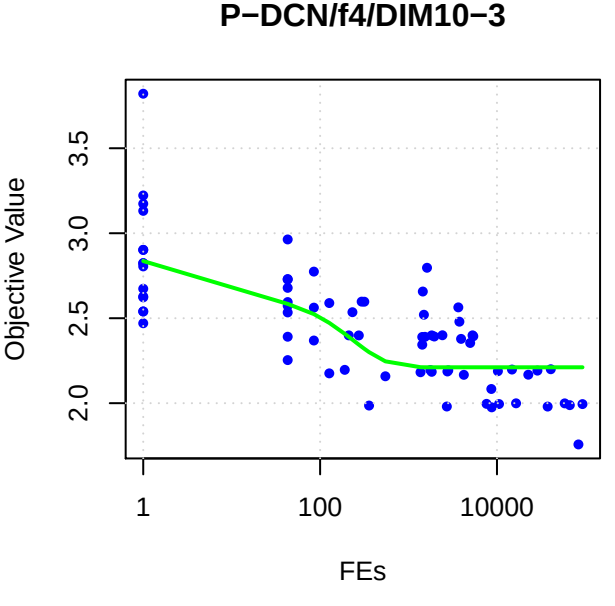
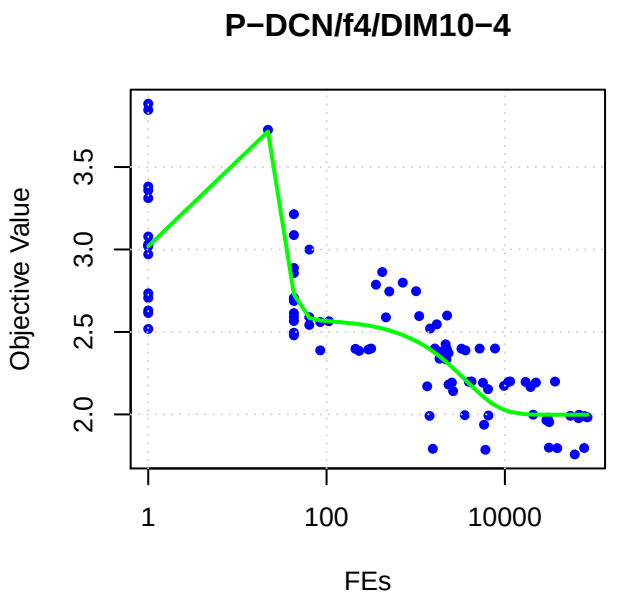
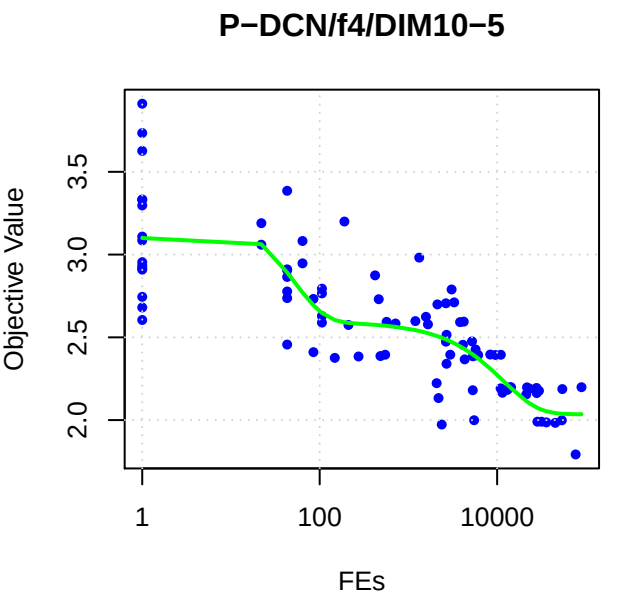
2.5
2.0
1
100
10000
FEs


P−DCN/f4/DIM10−3
Objective Value
3.5
3.0
2.5
2.0
1
100
10000
FEs


P−DCN/f4/DIM10−4
Objective Value
2.0
2.5
3.0
3.5
1
100
10000
FEs


P−DCN/f4/DIM10−5
Objective Value
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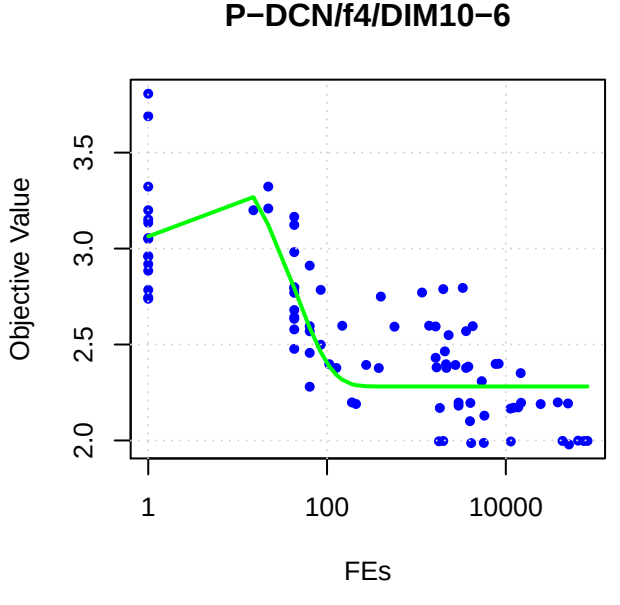
2.5
3.0
3.5
1
100
10000
FEs


P−DCN/f4/DIM10−6
Objective Value
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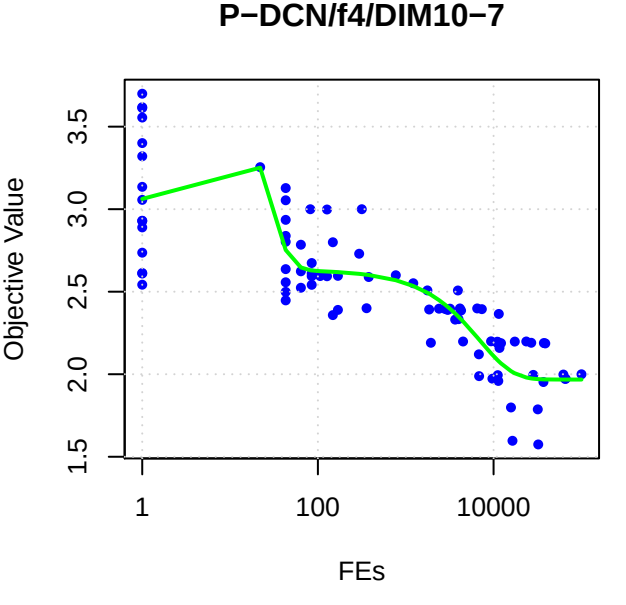
3.0
3.5
1
100
10000
FEs


P−DCN/f4/DIM10−7
Objective Value
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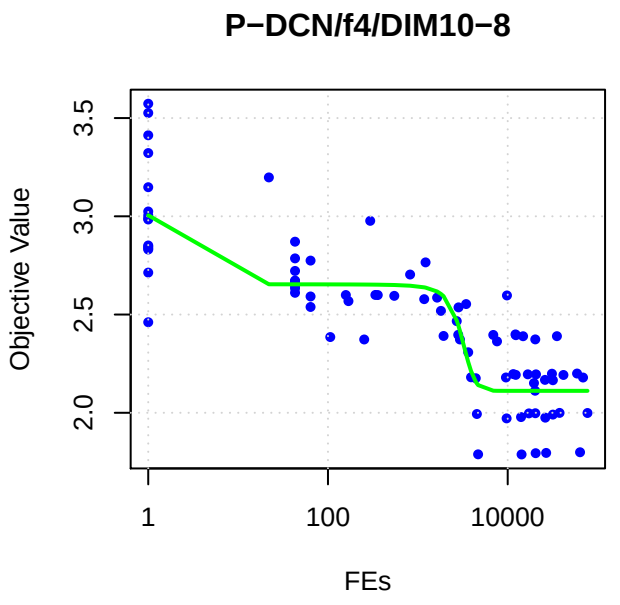
2.0
2.5
3.0
3.5
1
100
10000
FEs


P−DCN/f4/DIM10−8
Objective Value
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3.0
2.5
2.0
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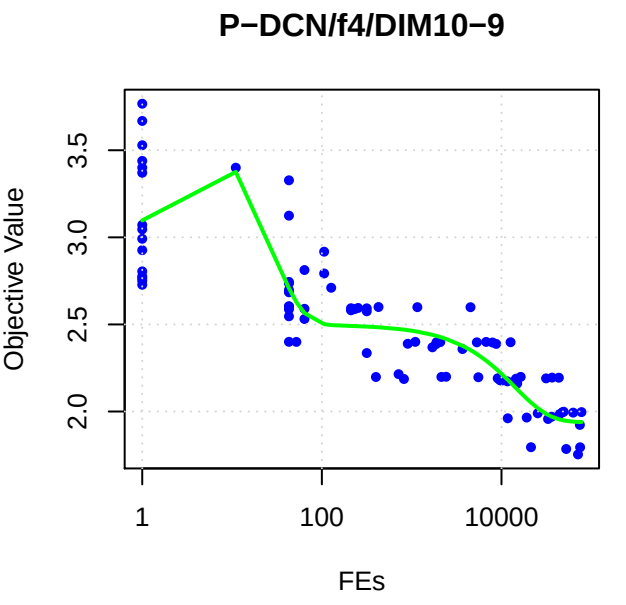
10000
FEs


P−DCN/f4/DIM10−9
Objective Value
3.5
3.0
2.5
2.0
1
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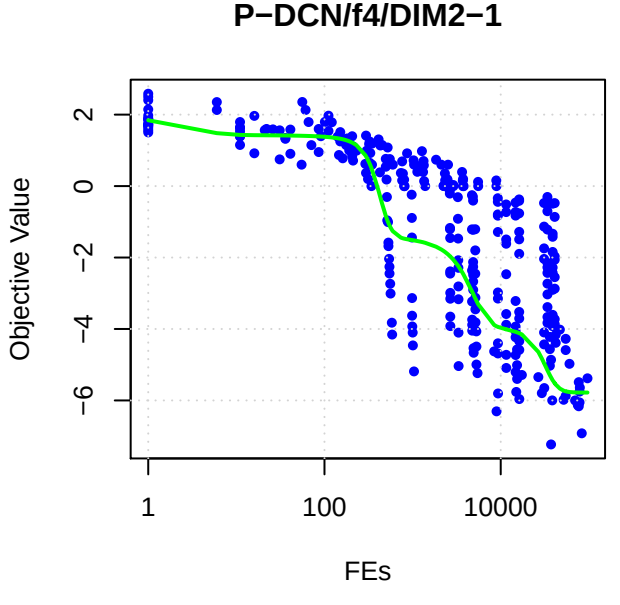
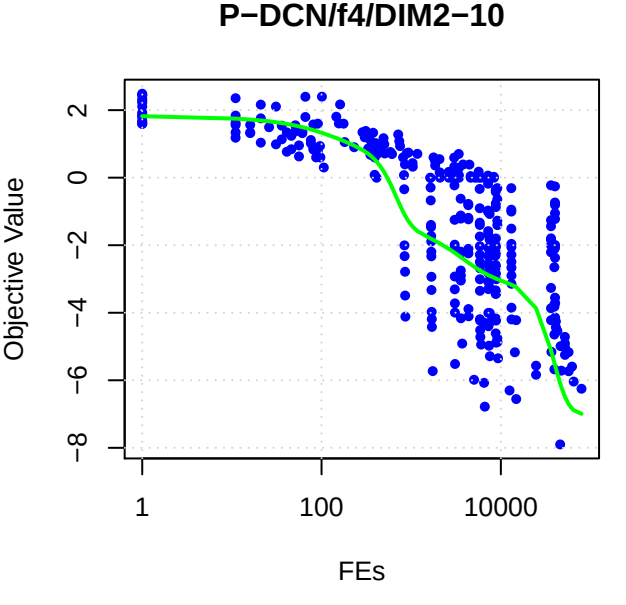
10000
FEs


P−DCN/f4/DIM2−1
Objective Value
2
0
−2
−4
−6
1
100
10000
FEs


P−DCN/f4/DIM2−10
Objective Value
2
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−2
−4
−6
−8
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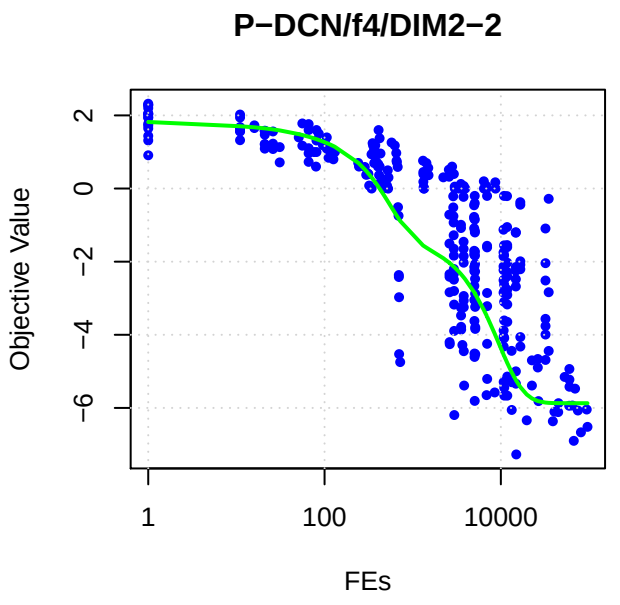
100
10000
FEs


P−DCN/f4/DIM2−2
Objective Value
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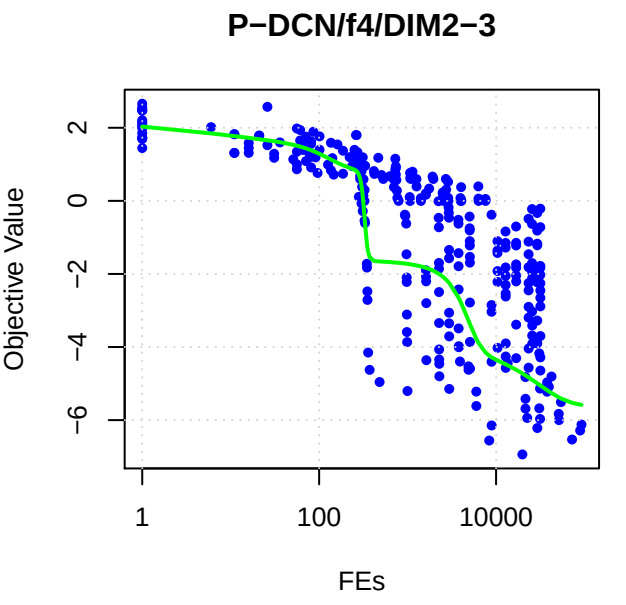
−2
−4
−6
1
100
10000
FEs


P−DCN/f4/DIM2−3
Objective Value
2
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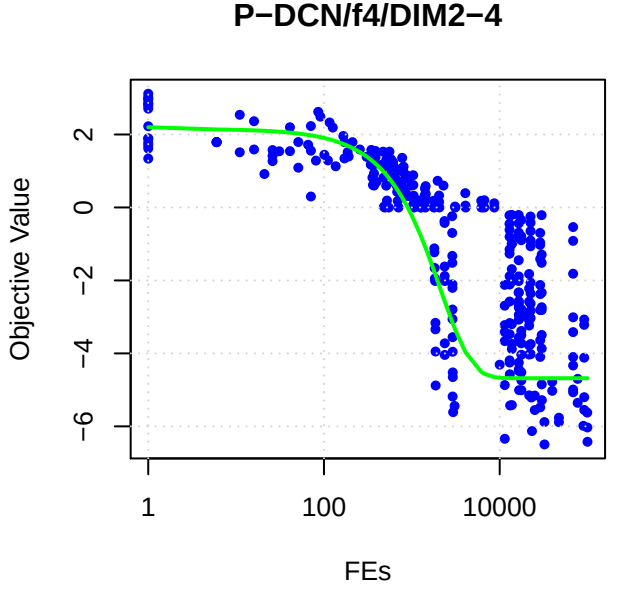
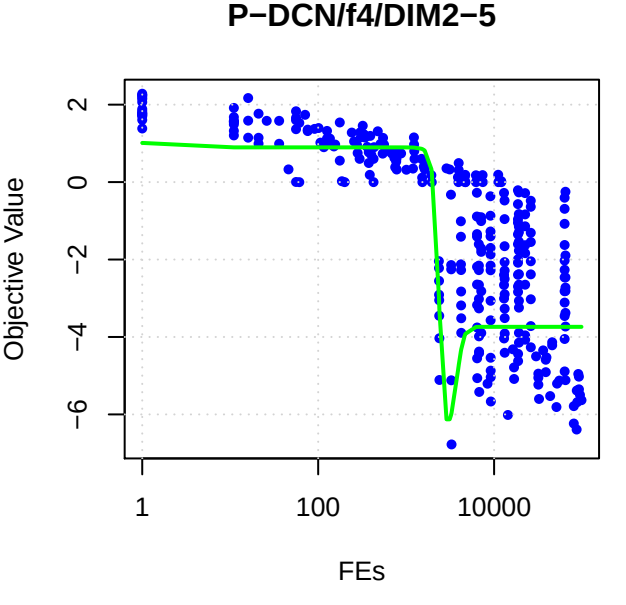
−2
−4
−6
1
100
10000
FEs


P−DCN/f4/DIM2−4
Objective Value
2
0
−2
−4
−6
1
100
10000
FEs


P−DCN/f4/DIM2−5
Objective Value
2
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−2
−4
−6
1
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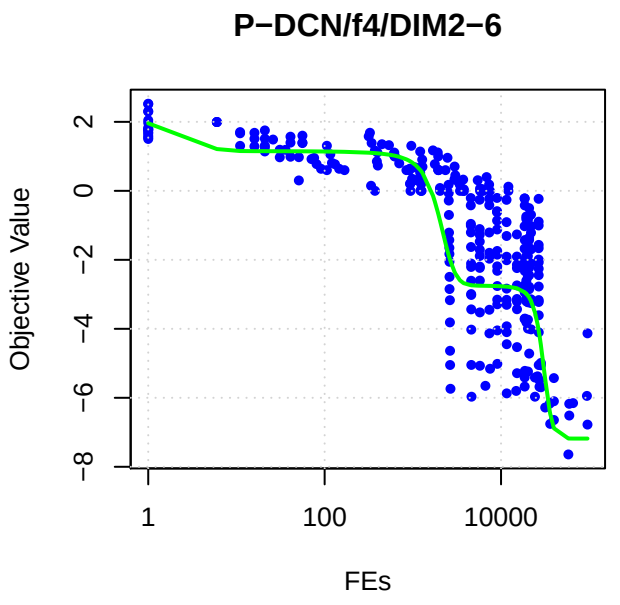
10000
FEs


P−DCN/f4/DIM2−6
Objective Value
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0
−2
−4
−6
−8
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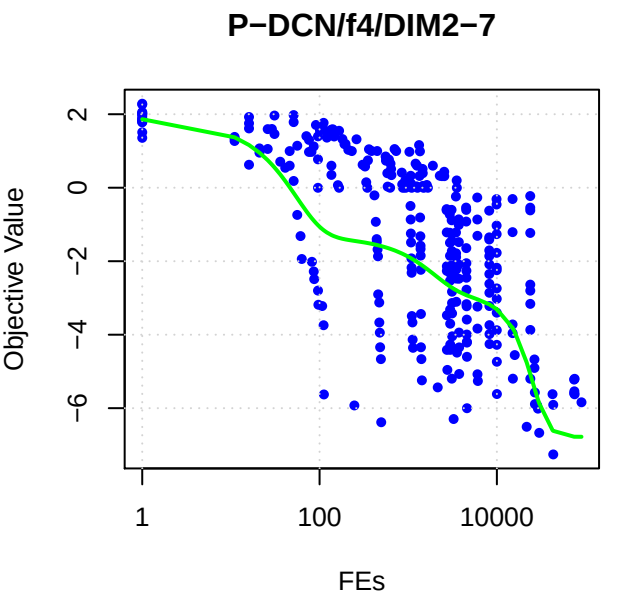
100
10000
FEs


P−DCN/f4/DIM2−7
Objective Value
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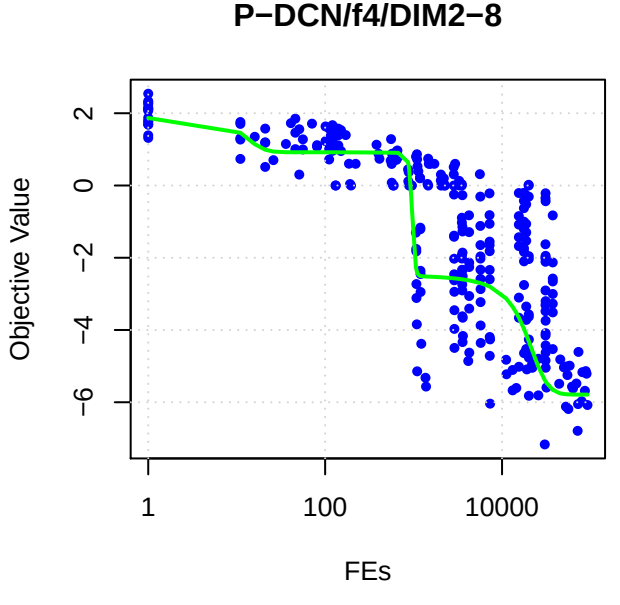
0
−2
−4
−6
1
100
10000
FEs


P−DCN/f4/DIM2−8
Objective Value
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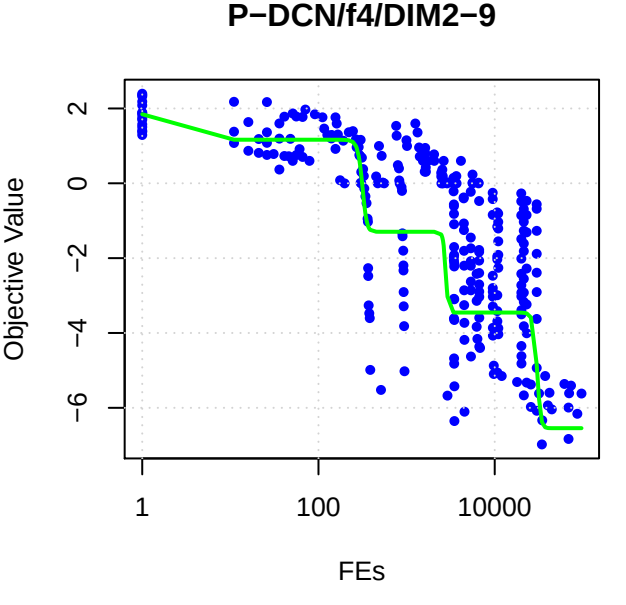
0
−2
−4
−6
1
100
10000
FEs


P−DCN/f4/DIM2−9
Objective Value
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−2
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−6
1
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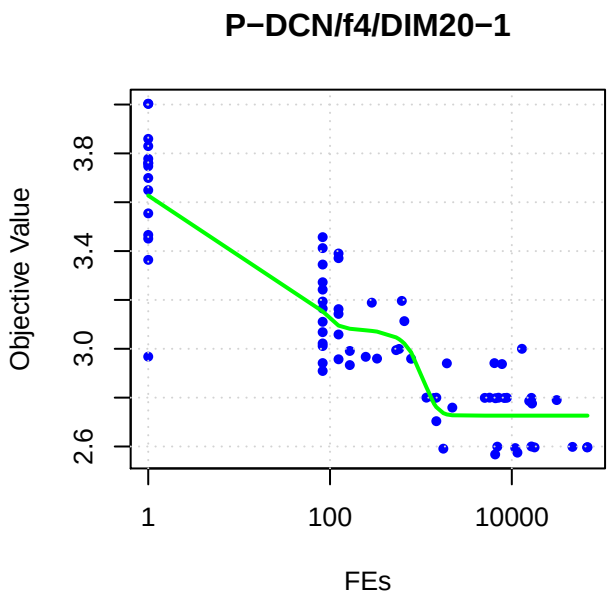
10000
FEs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Objective Value
2.6
3.0
3.4
3.8
1
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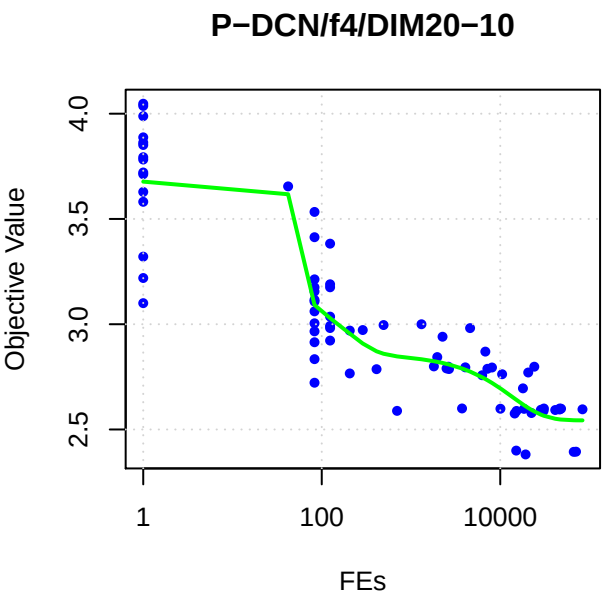
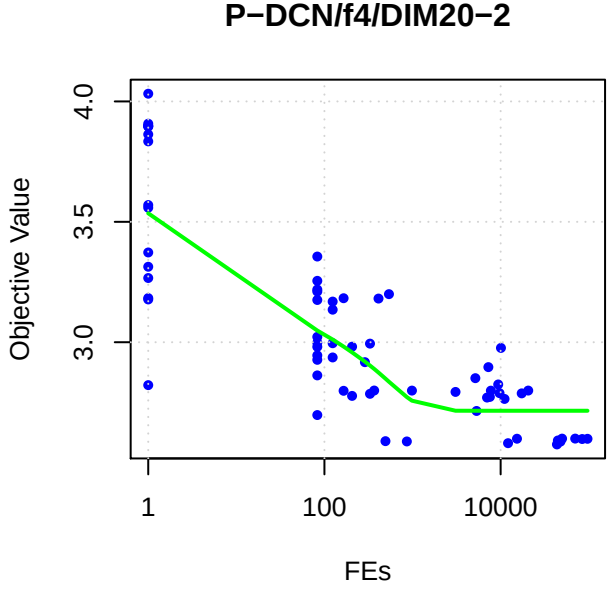
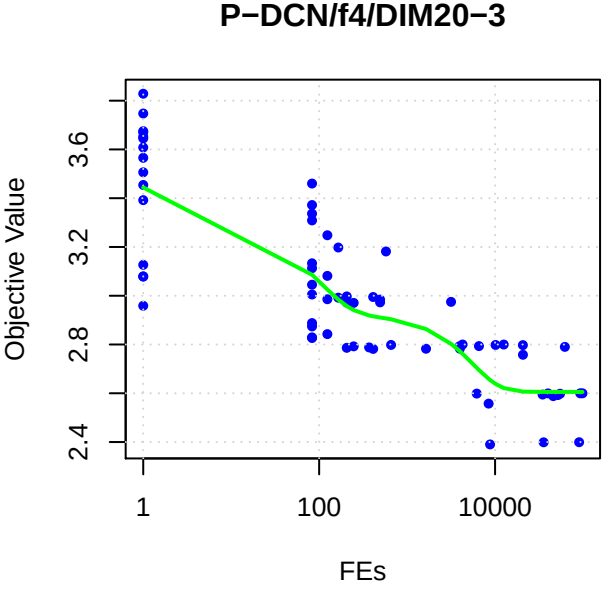
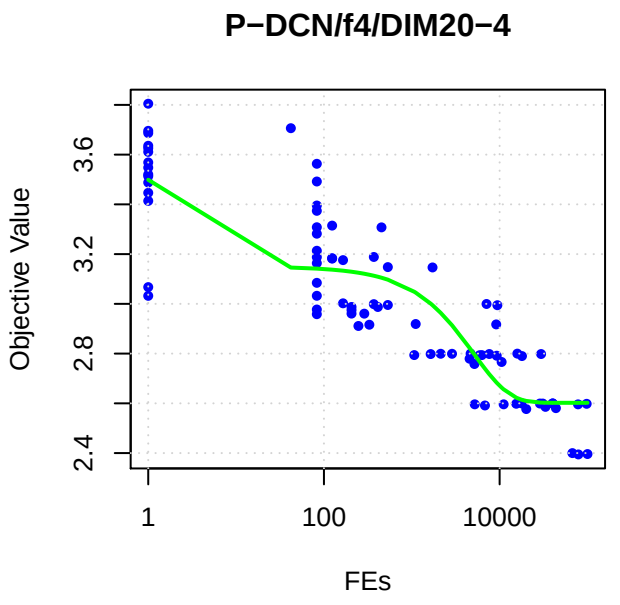
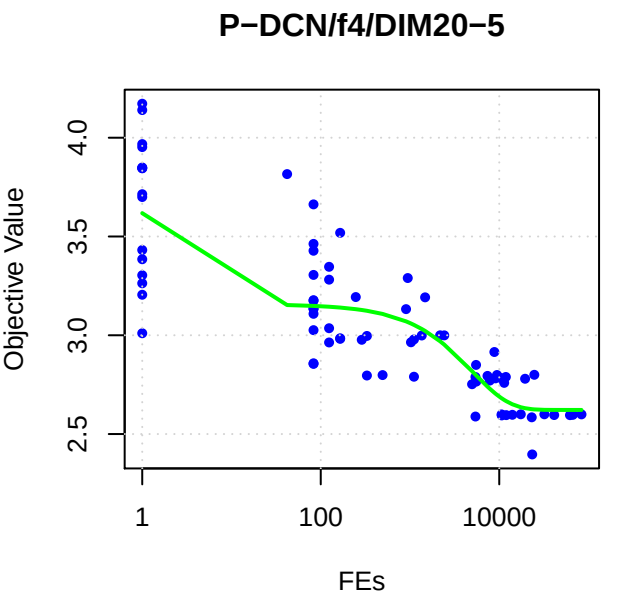
10000
FEs


P−DCN/f4/DIM20−10
Objective Value
2.5
3.0
3.5
4.0
1
100
10000
FEs


P−DCN/f4/DIM20−2
Objective Value
3.0
3.5
4.0
1
100
10000
FEs


P−DCN/f4/DIM20−3
Objective Value
2.4
2.8
3.2
3.6
1
100
10000
FEs


P−DCN/f4/DIM20−4
Objective Value
2.4
2.8
3.2
3.6
1
100
10000
FEs


P−DCN/f4/DIM20−5
Objective Value
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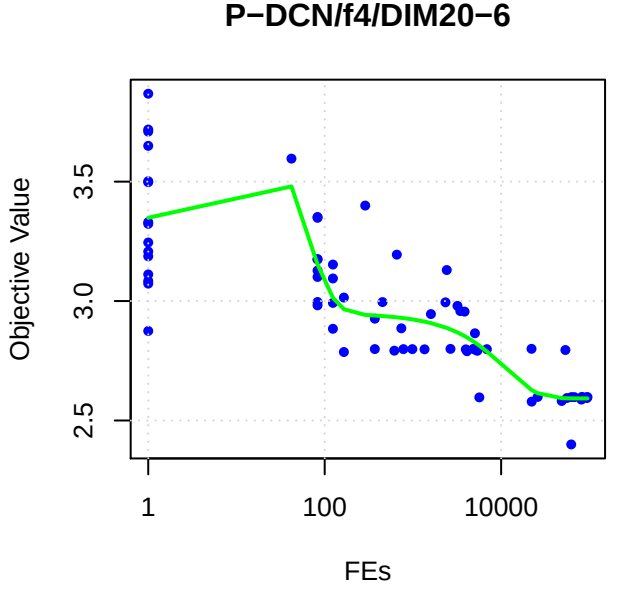
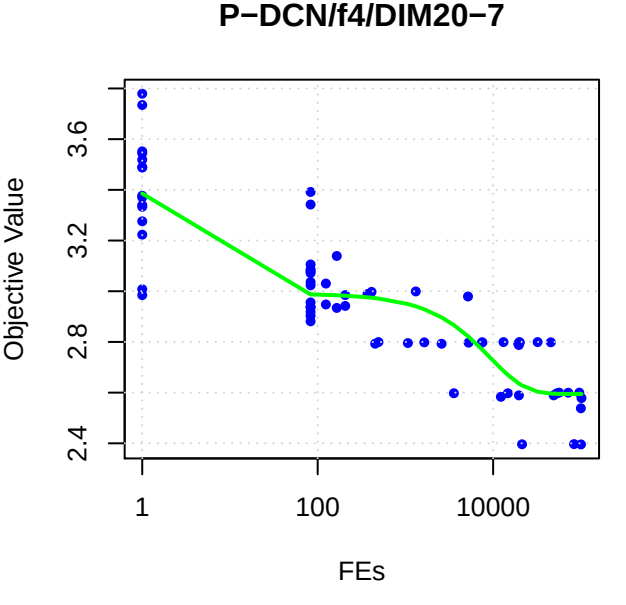
3.0
3.5
4.0
1
100
10000
FEs


P−DCN/f4/DIM20−6
Objective Value
2.5
3.0
3.5
1
100
10000
FEs


P−DCN/f4/DIM20−7
Objective Value
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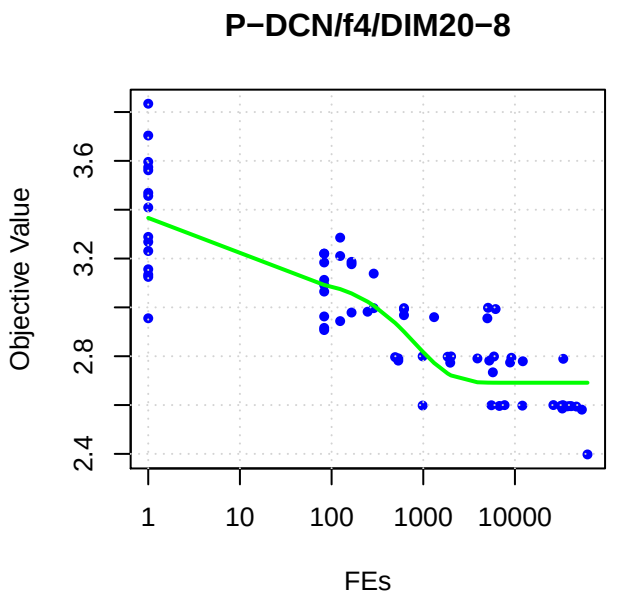
2.8
3.2
3.6
1
100
10000
FEs


P−DCN/f4/DIM20−8
Objective Value
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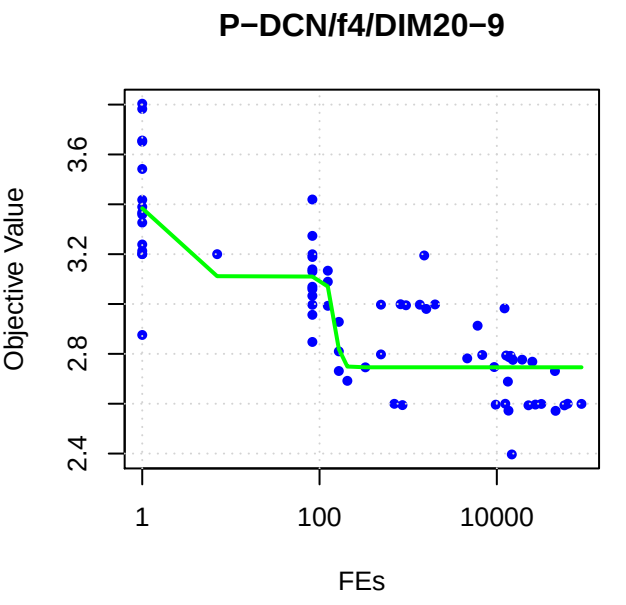
2.8
3.2
3.6
1
10
100
1000
10000
FEs


P−DCN/f4/DIM20−9
Objective Value
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2.8
3.2
3.6
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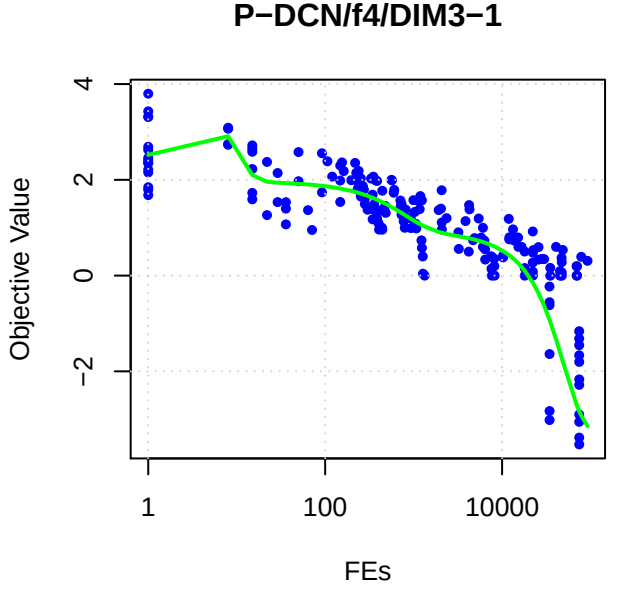
100
10000
FEs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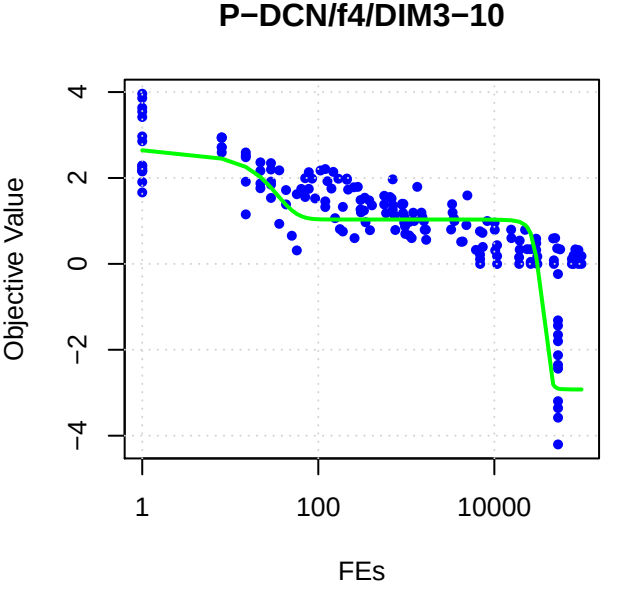
Objective Value
−2
0
2
4
1
100
10000
FEs


P−DCN/f4/DIM3−10
Objective Value
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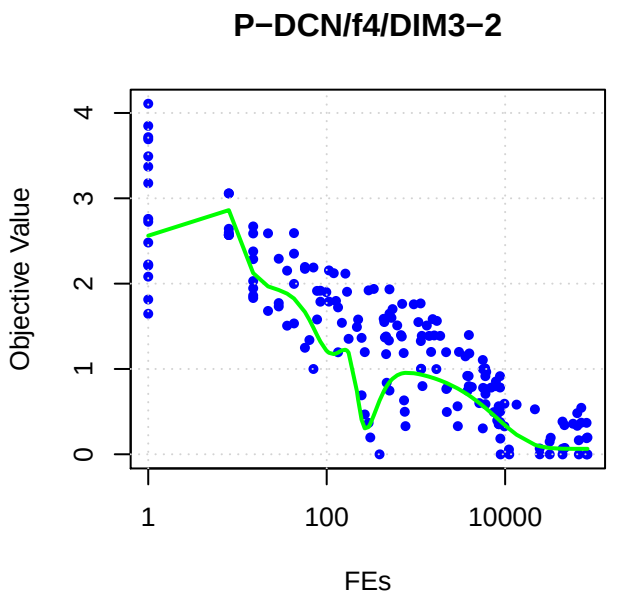
−2
0
2
4
1
100
10000
FEs


P−DCN/f4/DIM3−2
Objective Value
FEs
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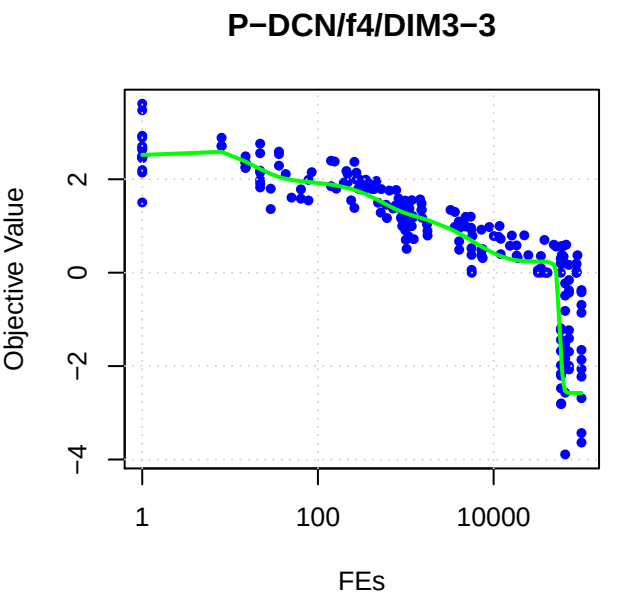
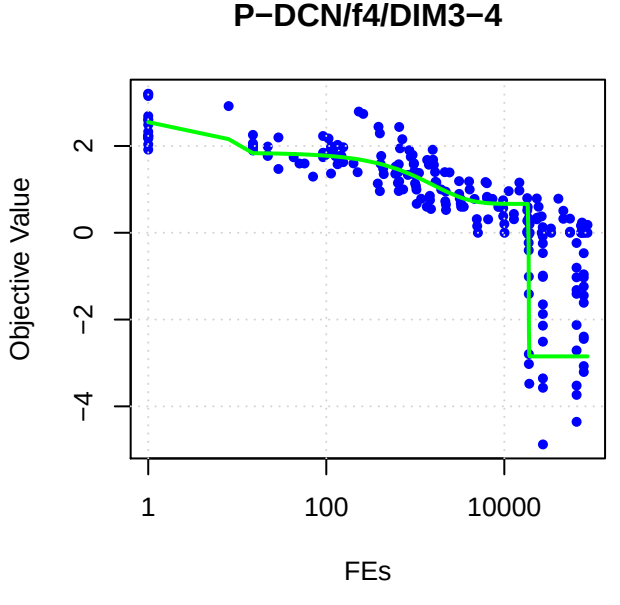
1
2
3
4
1
100
10000


P−DCN/f4/DIM3−3
Objective Value
FEs
−4
−2
0
2
1
100
10000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Objective Value
FEs
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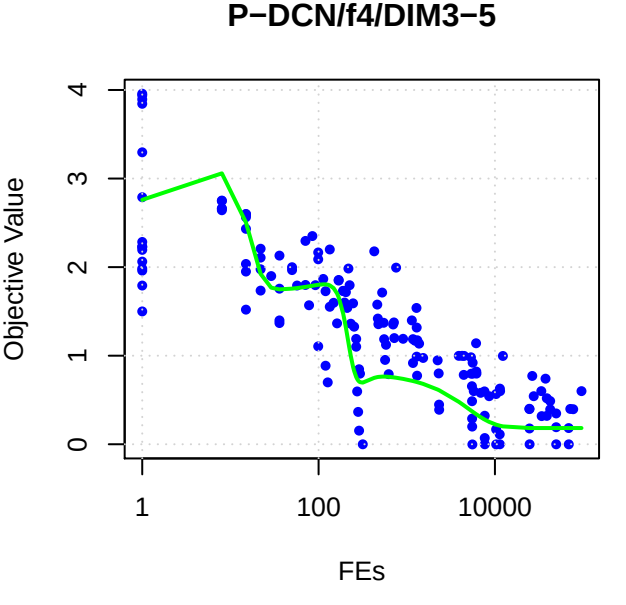
−2
0
2
1
100
10000


P−DCN/f4/DIM3−5
Objective Value
FEs
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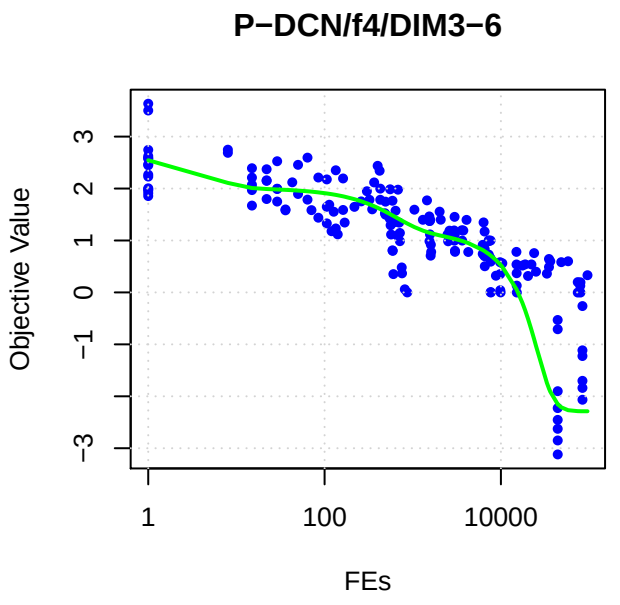
1
2
3
4
1
100
10000


P−DCN/f4/DIM3−6
Objective Value
FEs
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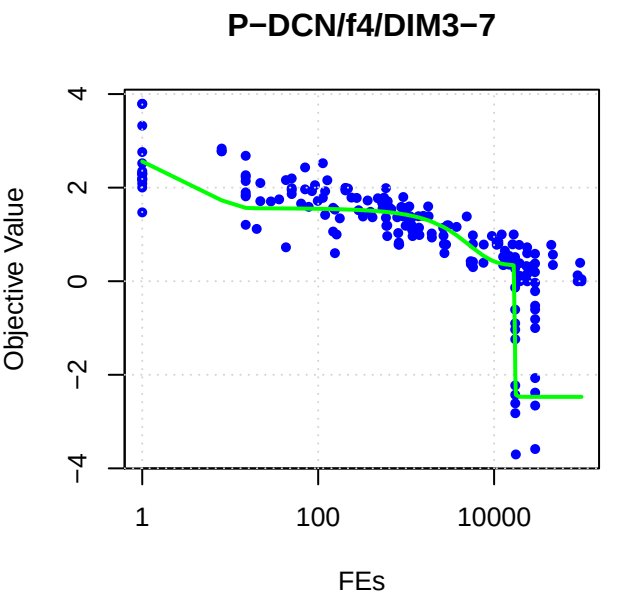
2
1
0
−1
−3
1
100
10000


P−DCN/f4/DIM3−7
Objective Value
FEs
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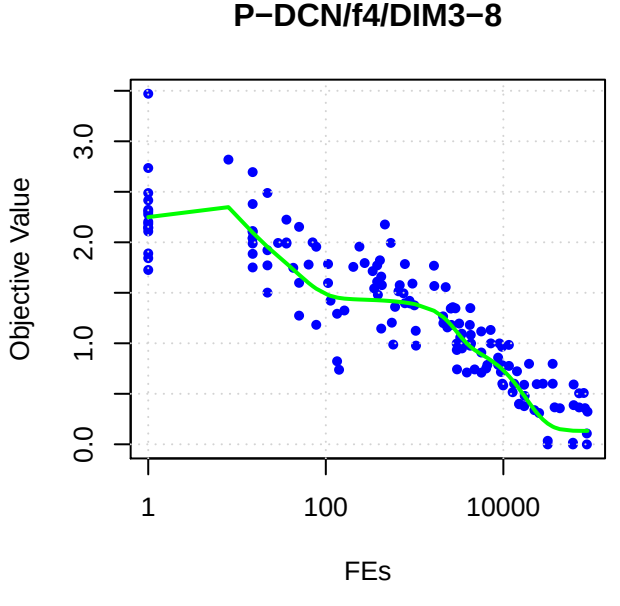
2
0
−2
−4
1
100
10000


P−DCN/f4/DIM3−8
Objective Value
FEs
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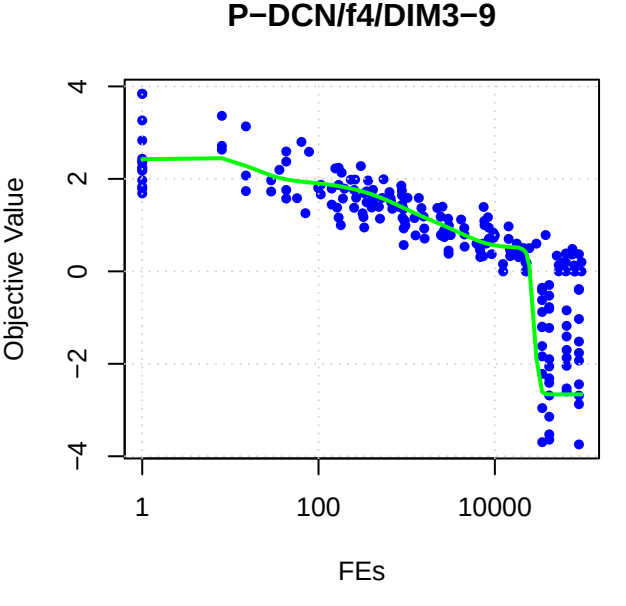
2.0
1.0
0.0
1
100
10000


P−DCN/f4/DIM3−9
Objective Value
FEs
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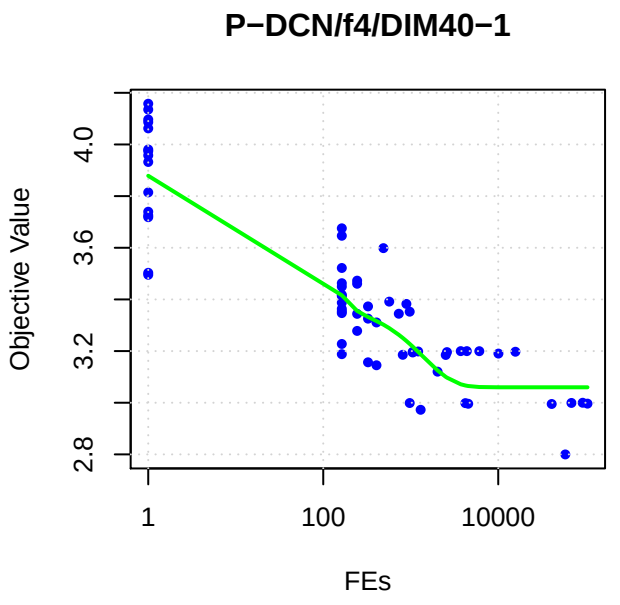
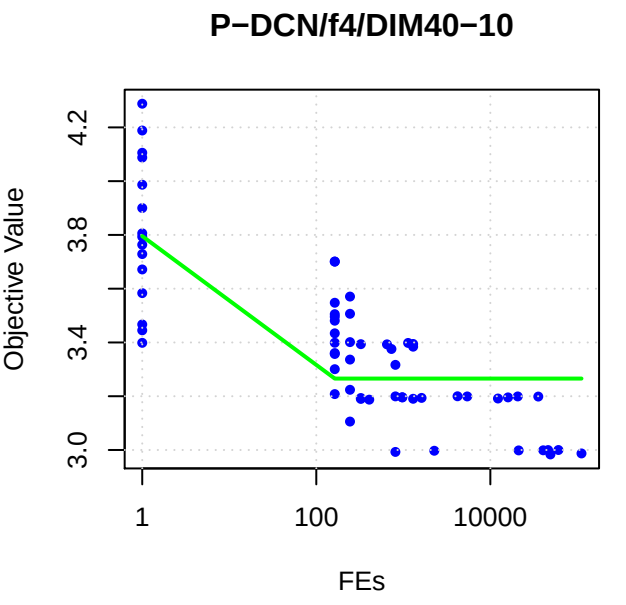
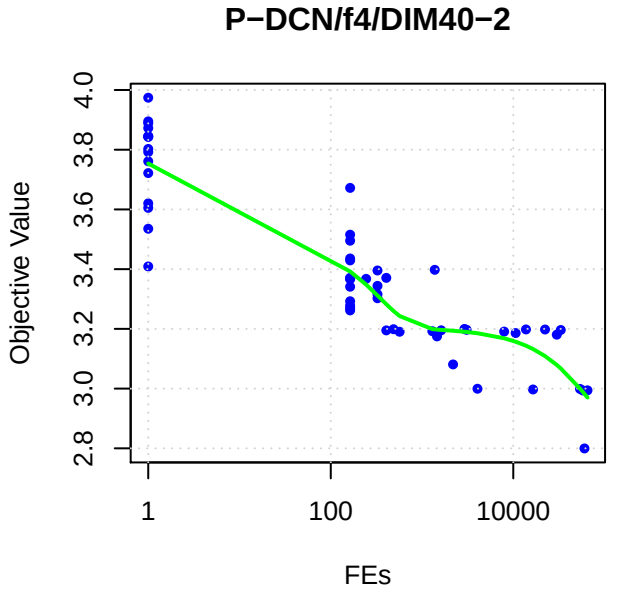
2
0
−2
−4
1
100
10000


P−DCN/f4/DIM40−1
Objective Value
4.0
3.6
3.2
2.8
1
100
10000
FEs


P−DCN/f4/DIM40−10
Objective Value
4.2
3.8
3.4
3.0
1
100
10000
FEs


P−DCN/f4/DIM40−2
Objective Value
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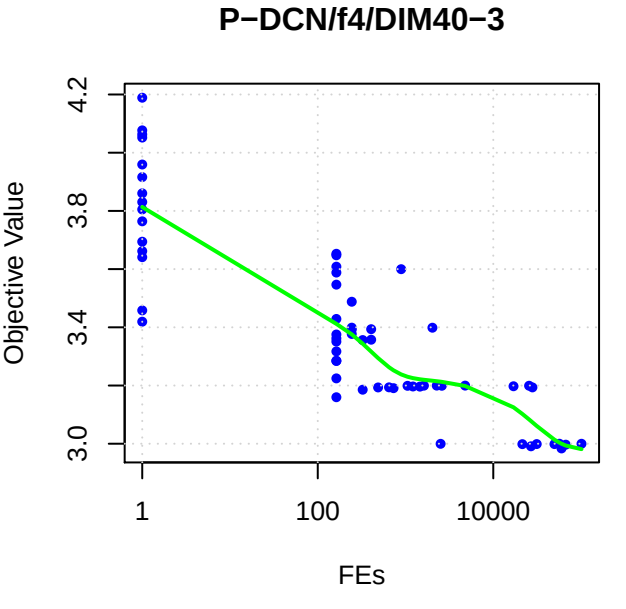
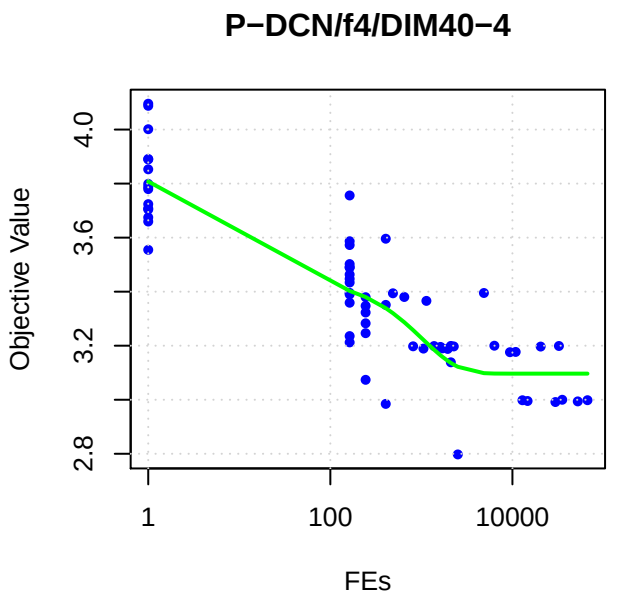
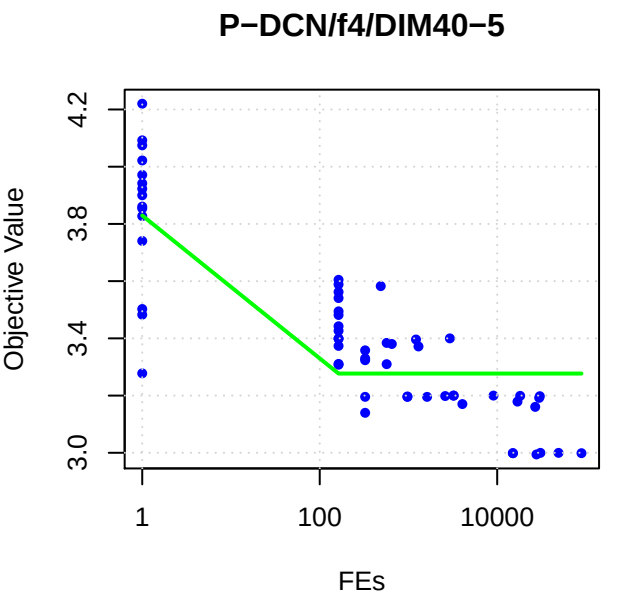
3.8
3.6
3.4
3.2
3.0
2.8
1
100
10000
FEs


P−DCN/f4/DIM40−3
Objective Value
4.2
3.8
3.4
3.0
1
100
10000
FEs


P−DCN/f4/DIM40−4
Objective Value
2.8
3.2
3.6
4.0
1
100
10000
FEs


P−DCN/f4/DIM40−5
Objective Value
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3.8
4.2
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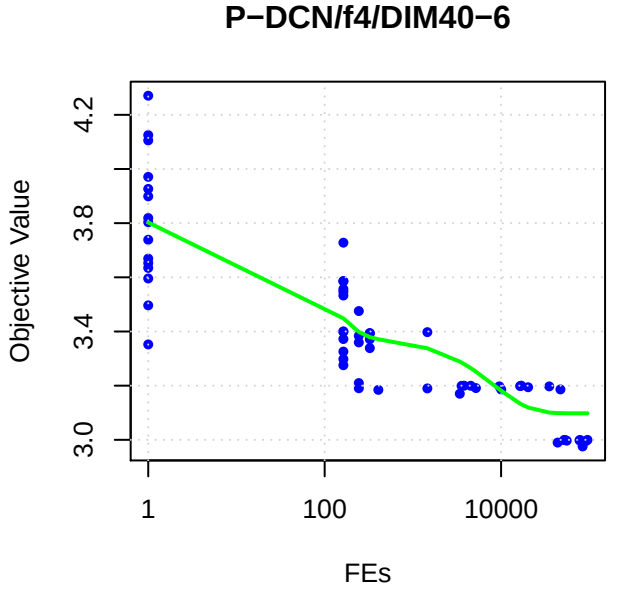
100
10000
FEs


P−DCN/f4/DIM40−6
Objective Value
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3.8
4.2
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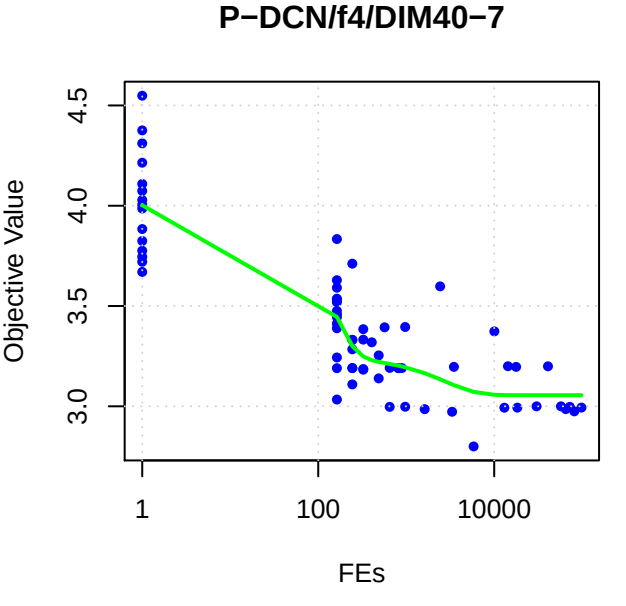
10000
FEs


P−DCN/f4/DIM40−7
Objective Value
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4.0
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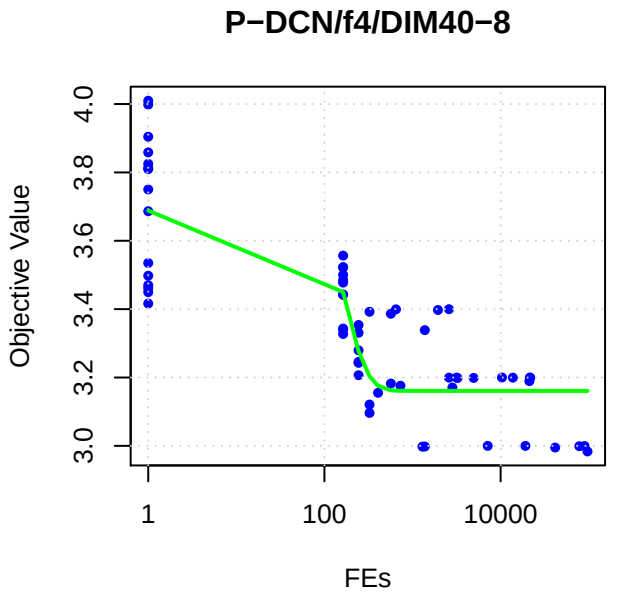
P−DCN/f4/DIM40−8
Objective Value
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3.4
3.6
3.8
4.0
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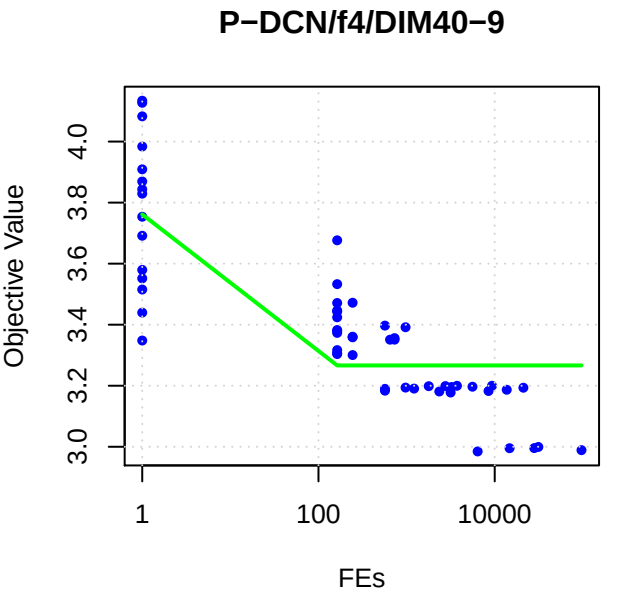
FEs


P−DCN/f4/DIM40−9
Objective Value
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3.4
3.6
3.8
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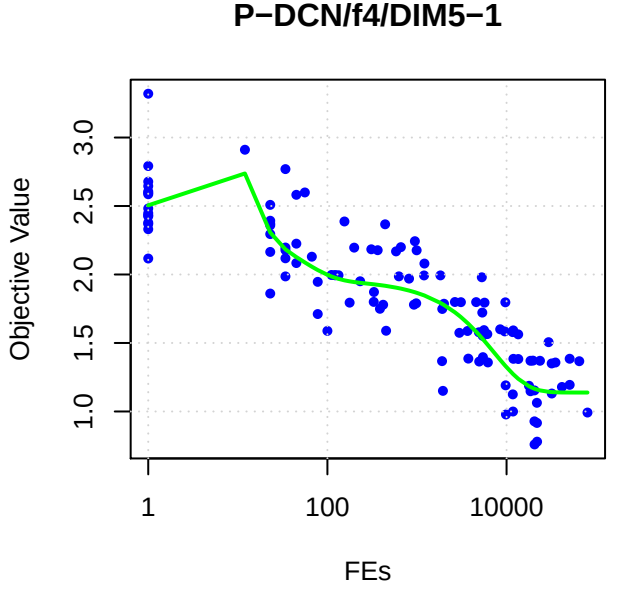
FEs


P−DCN/f4/DIM5−1
Objective Value
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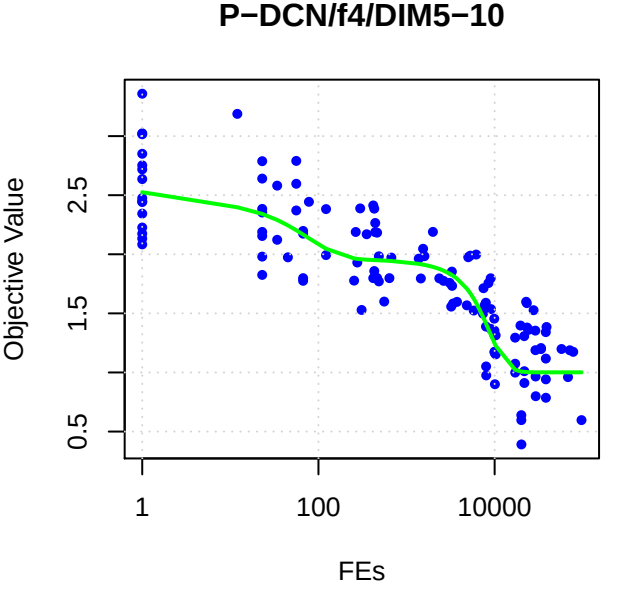
1.5
2.0
2.5
3.0
1
100
10000
FEs


P−DCN/f4/DIM5−10
Objective Value
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1.5
2.5
1
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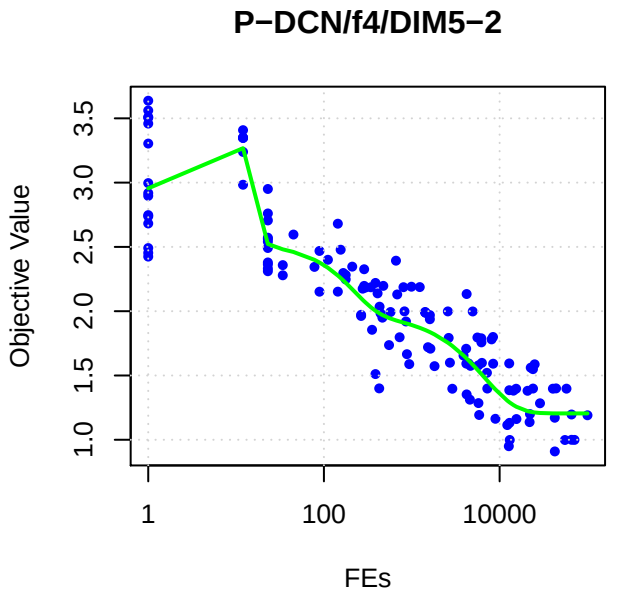
10000
FEs


P−DCN/f4/DIM5−2
Objective Value
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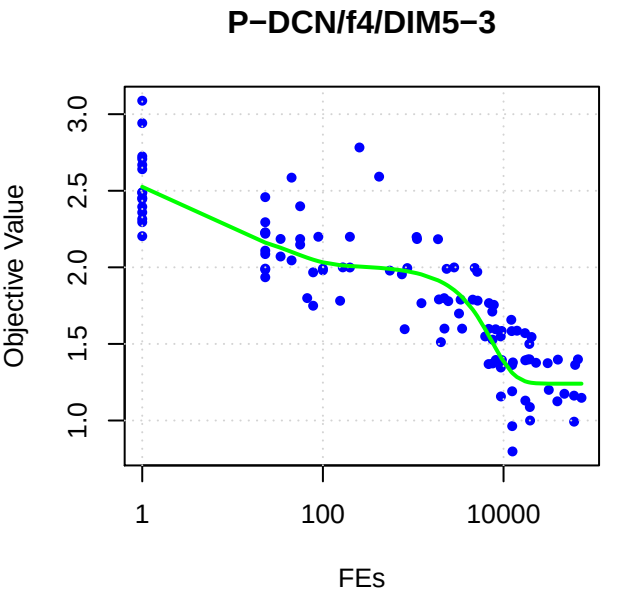
2.0
2.5
3.0
3.5
1
100
10000
FEs


P−DCN/f4/DIM5−3
Objective Value
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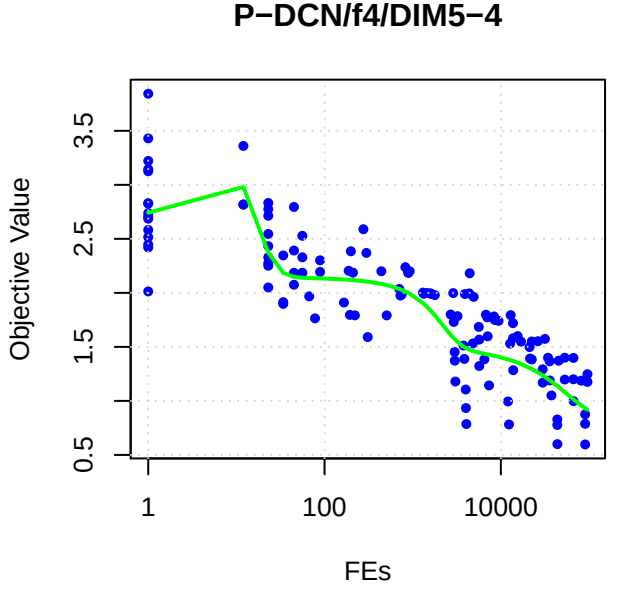
2.0
2.5
3.0
1
100
10000
FEs


P−DCN/f4/DIM5−4
Objective Value
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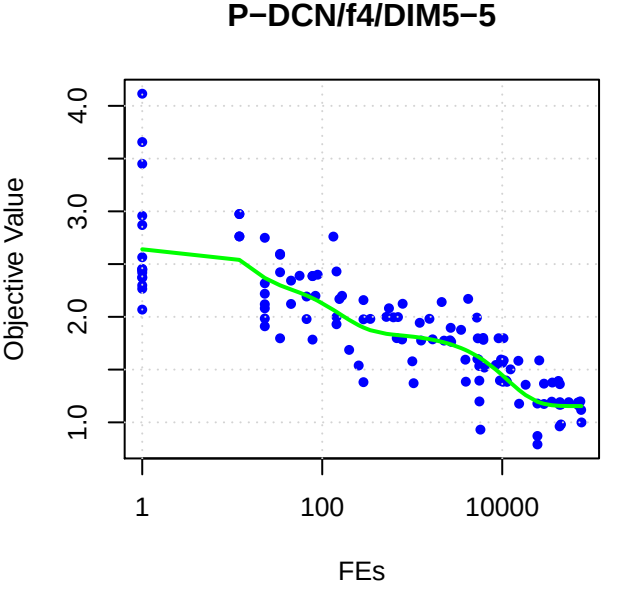
1.5
2.5
3.5
1
100
10000
FEs


P−DCN/f4/DIM5−5
Objective Value
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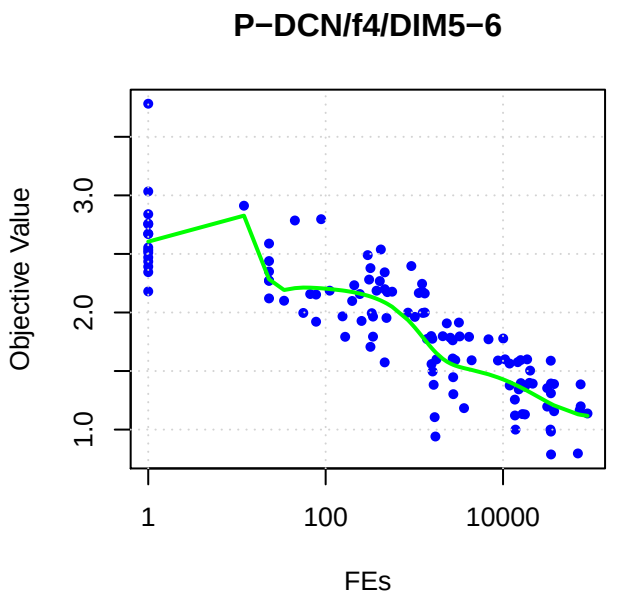
2.0
3.0
4.0
1
100
10000
FEs


P−DCN/f4/DIM5−6
Objective Value
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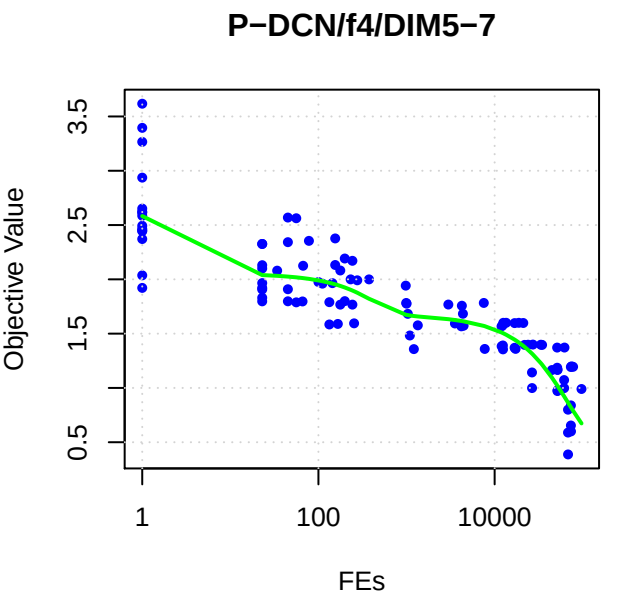
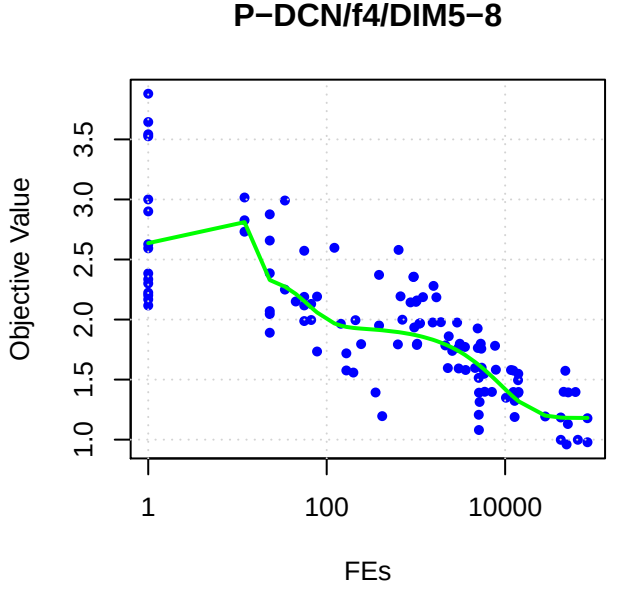
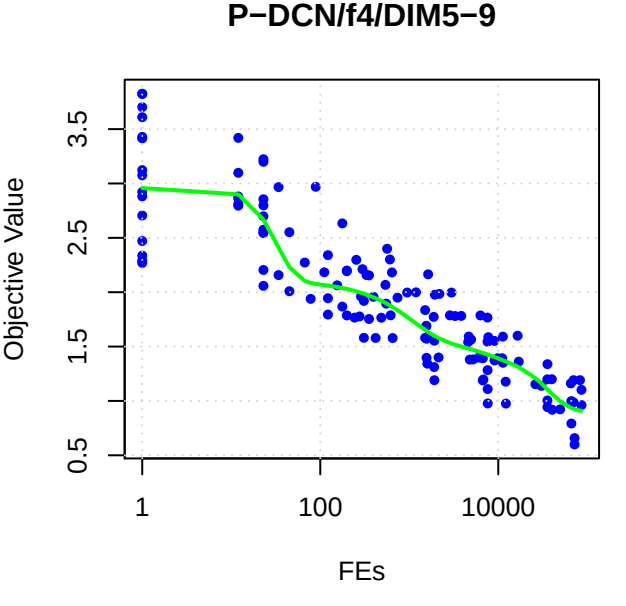
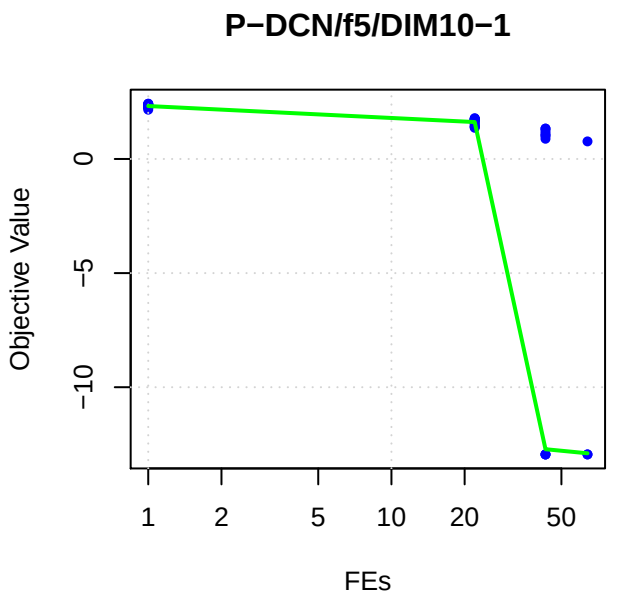
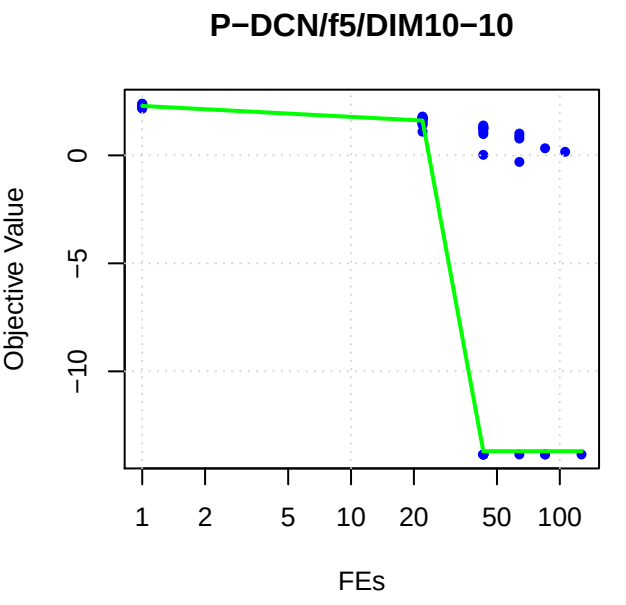
2.0
3.0
1
100
10000
FEs

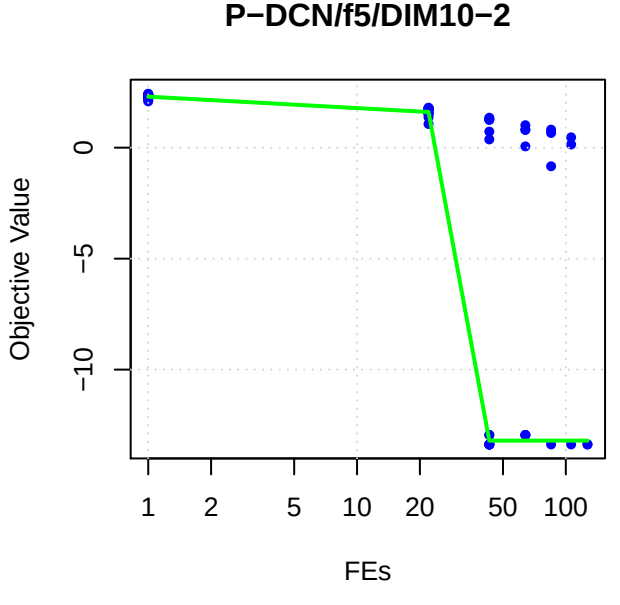

P−DCN/f4/DIM5−7
Objective Value
0.5
1.5
2.5
3.5
1
100
10000
FEs

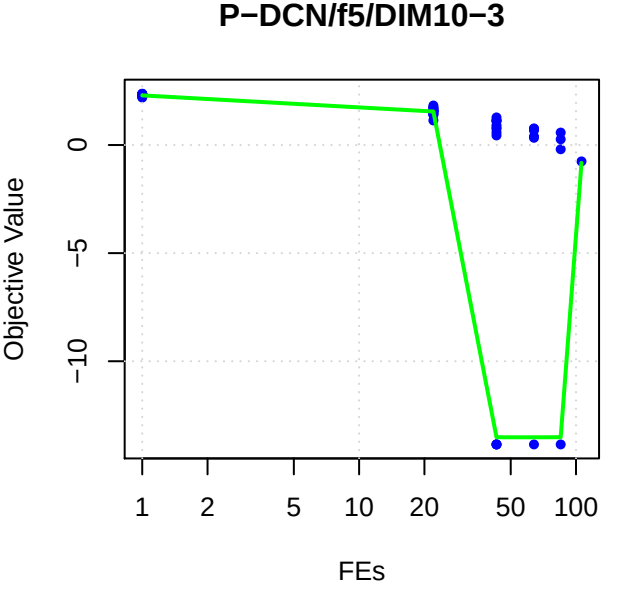

P−DCN/f4/DIM5−8
Objective Value
1.0
1.5
2.0
2.5
3.0
3.5
1
100
10000
FEs


P−DCN/f4/DIM5−9
Objective Value
0.5
1.5
2.5
3.5
1
100
10000
FEs


P−DCN/f5/DIM10−1
Objective Value
0
−5
−10
1
2
5
10
20
50
FEs


P−DCN/f5/DIM10−10
Objective Value
0
−5
−10
1
2
5
10
20
50
100
FEs


P−DCN/f5/DIM10−2
Objective Value
0
−5
−10
1
2
5
10
20
50
100
FEs


P−DCN/f5/DIM10−3
Objective Value
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−5
−10
1
2
5
10
20
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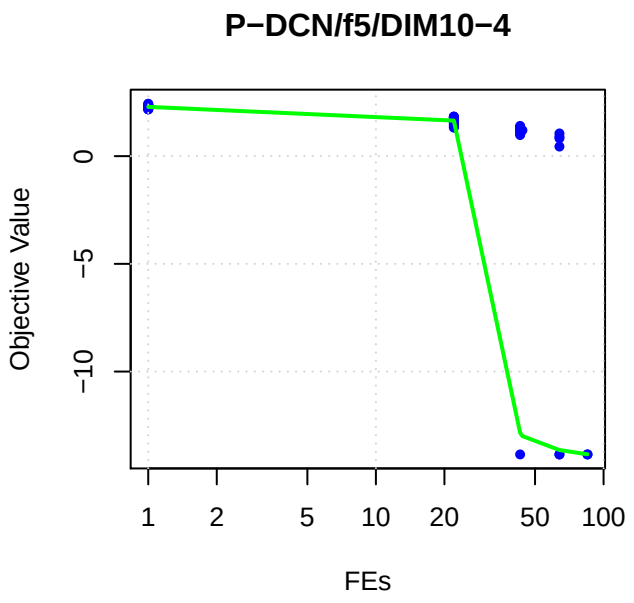
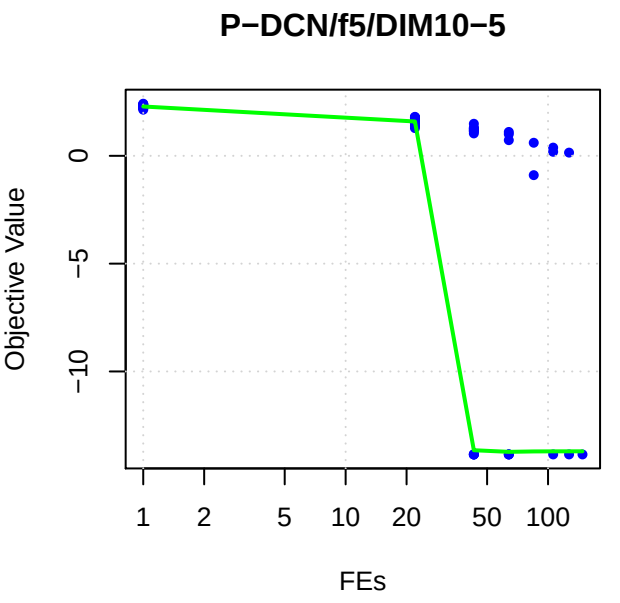
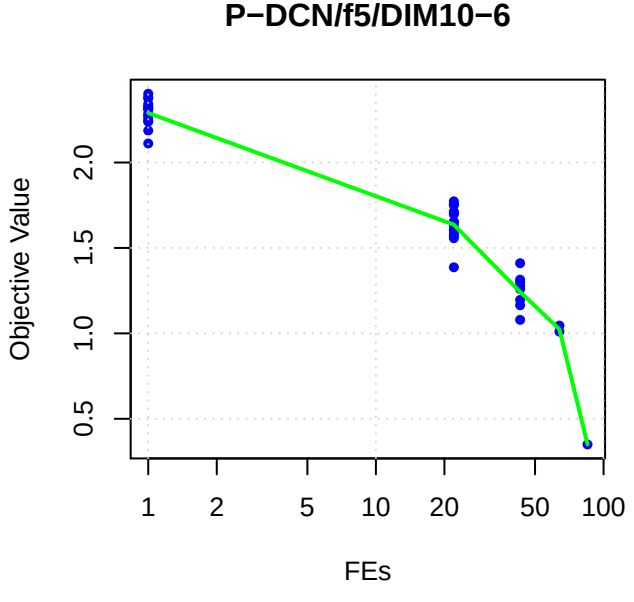
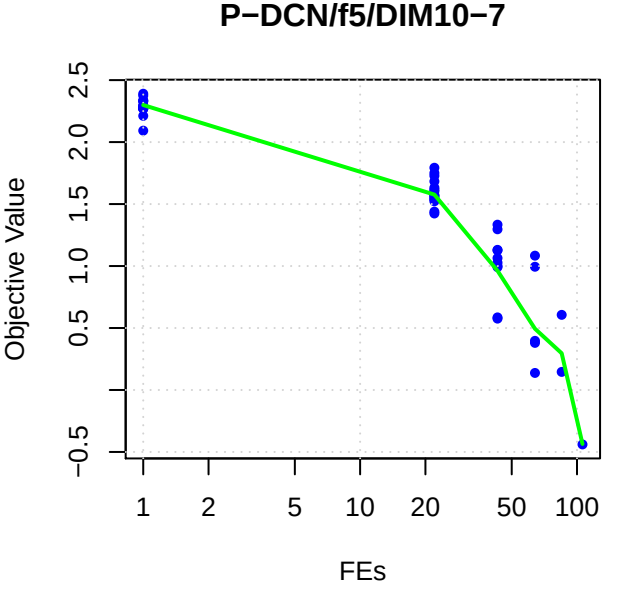
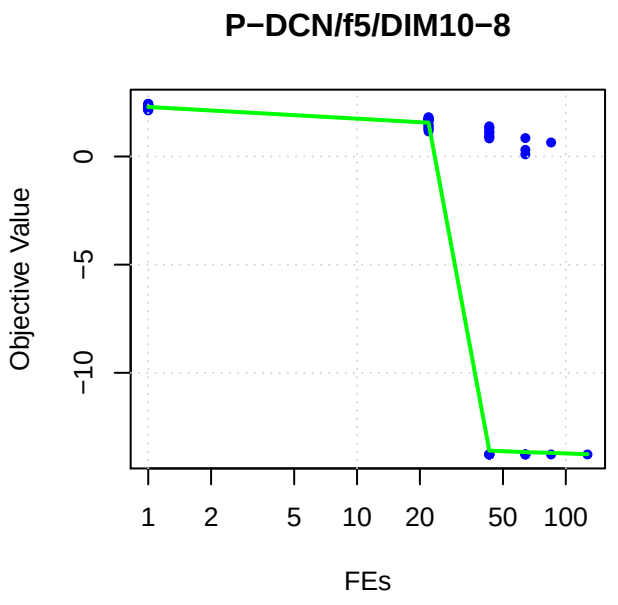
100
FEs


P−DCN/f5/DIM10−4
Objective Value
0
−5
−10
1
2
5
10
20
50
100
FEs


P−DCN/f5/DIM10−5
Objective Value
0
−5
−10
1
2
5
10
20
50
100
FEs


P−DCN/f5/DIM10−6
Objective Value
2.0
1.5
1.0
0.5
1
2
5
10
20
50
100
FEs


P−DCN/f5/DIM10−7
Objective Value
2.5
2.0
1.5
1.0
0.5
−0.5
1
2
5
10
20
50
100
FEs


P−DCN/f5/DIM10−8
Objective Value
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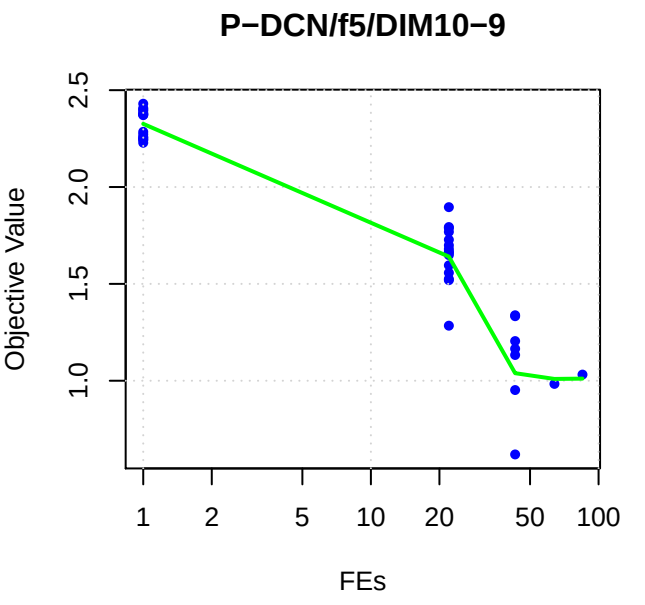
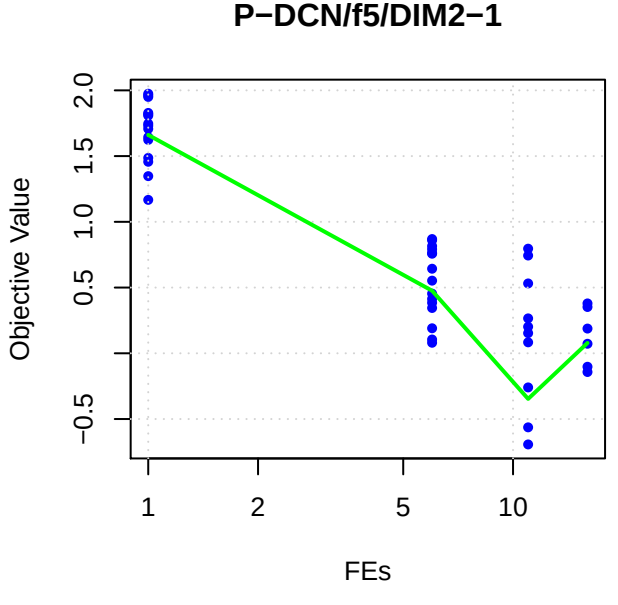
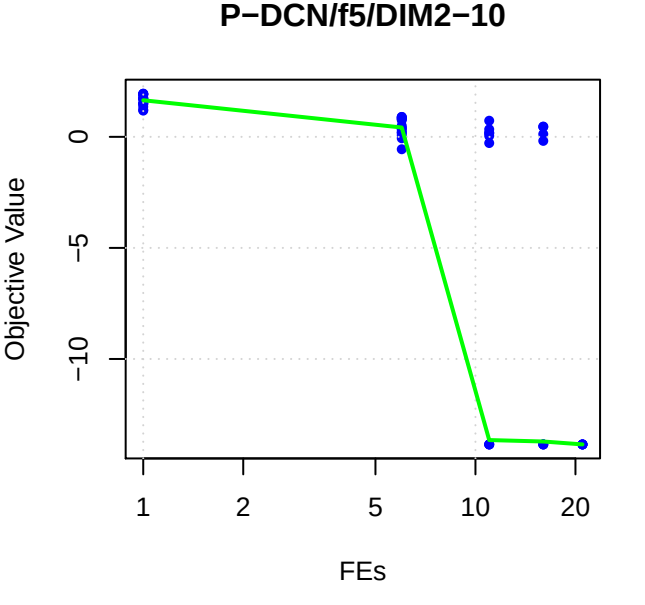
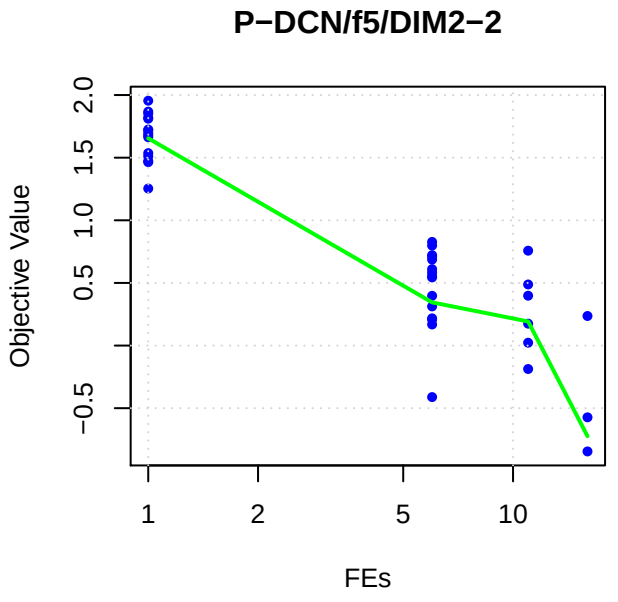
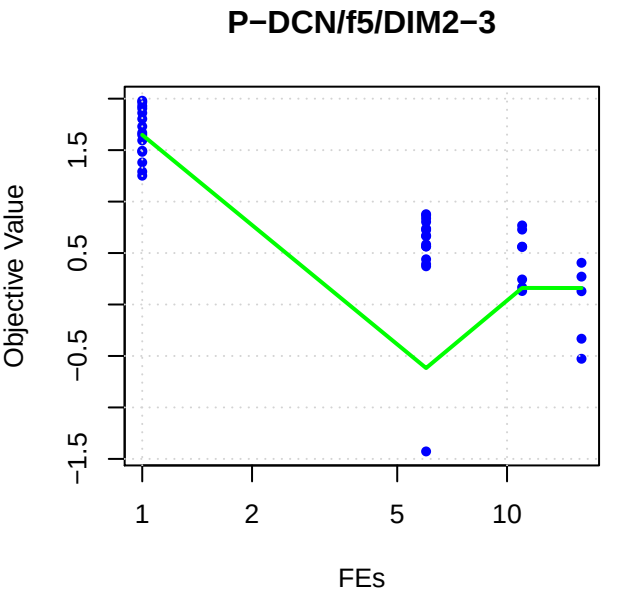
−5
−10
1
2
5
10
20
50
100
FEs

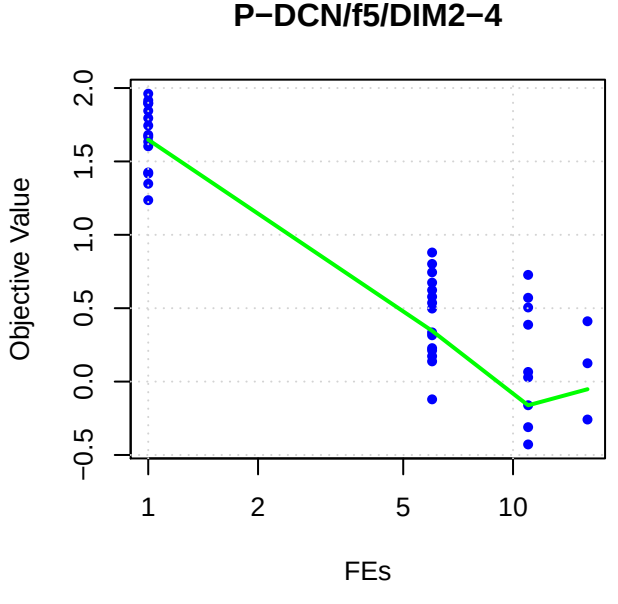

P−DCN/f5/DIM10−9
Objective Value
2.5
2.0
1.5
1.0
1
2
5
10
20
50
100
FEs

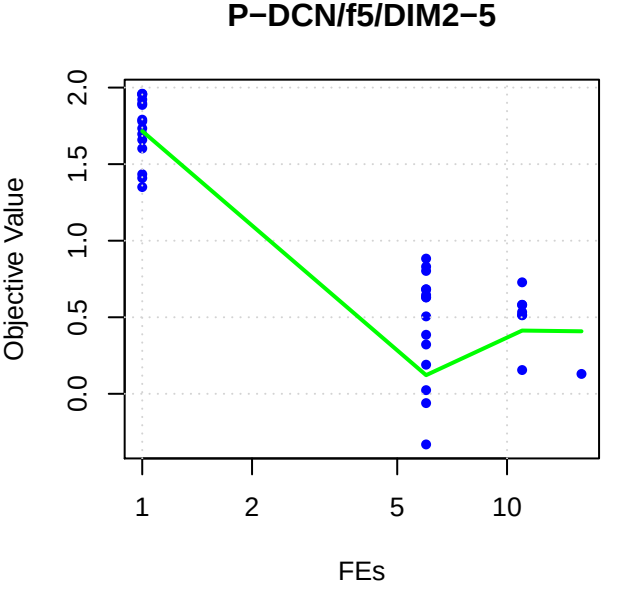

P−DCN/f5/DIM2−1
Objective Value
2.0
1.5
1.0
0.5
−0.5
1
2
5
10
FEs

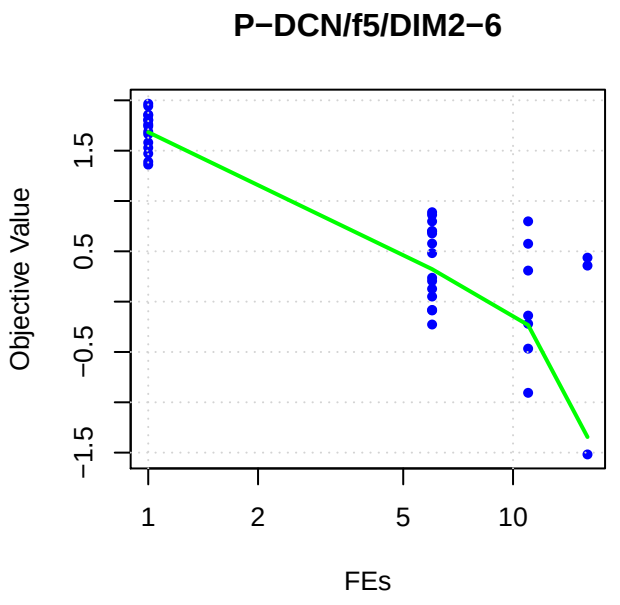

P−DCN/f5/DIM2−10
Objective Value
0
−5
−10
1
2
5
10
20
FEs

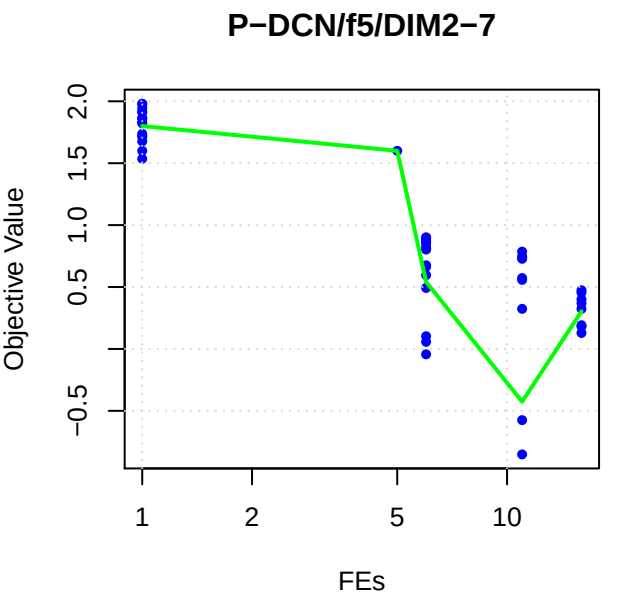

P−DCN/f5/DIM2−2
Objective Value
2.0
1.5
1.0
0.5
−0.5
1
2
5
10
FEs

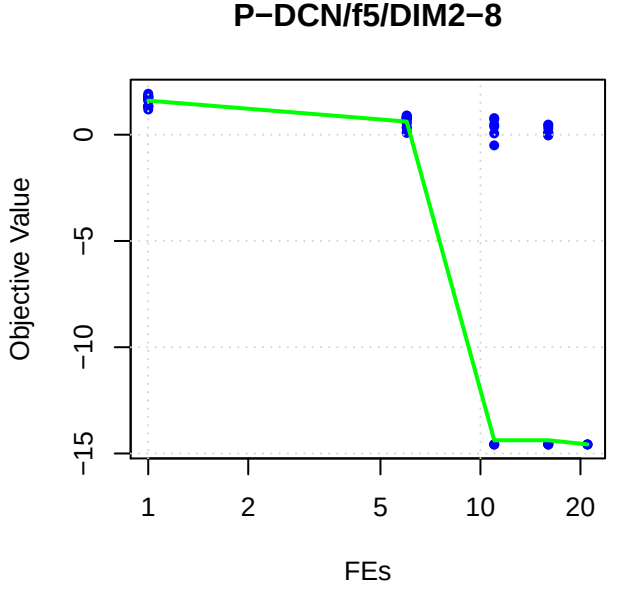

P−DCN/f5/DIM2−3
Objective Value
1.5
0.5
−0.5
−1.5
1
2
5
10
FEs


P−DCN/f5/DIM2−4
Objective Value
2.0
1.5
1.0
0.5
0.0
−0.5
1
2
5
10
FEs


P−DCN/f5/DIM2−5
Objective Value
2.0
1.5
1.0
0.5
0.0
1
2
5
10
FEs


P−DCN/f5/DIM2−6
Objective Value
1.5
0.5
−0.5
−1.5
1
2
5
10
FEs


P−DCN/f5/DIM2−7
Objective Value
2.0
1.5
1.0
0.5
−0.5
1
2
5
10
FEs


P−DCN/f5/DIM2−8
Objective Value
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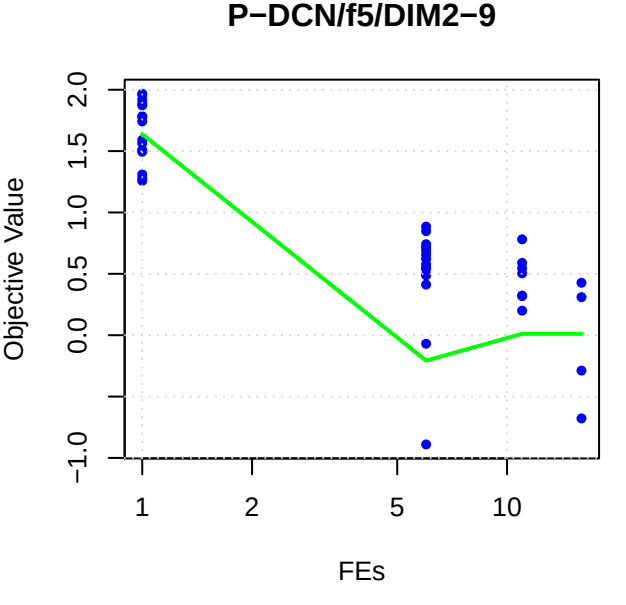
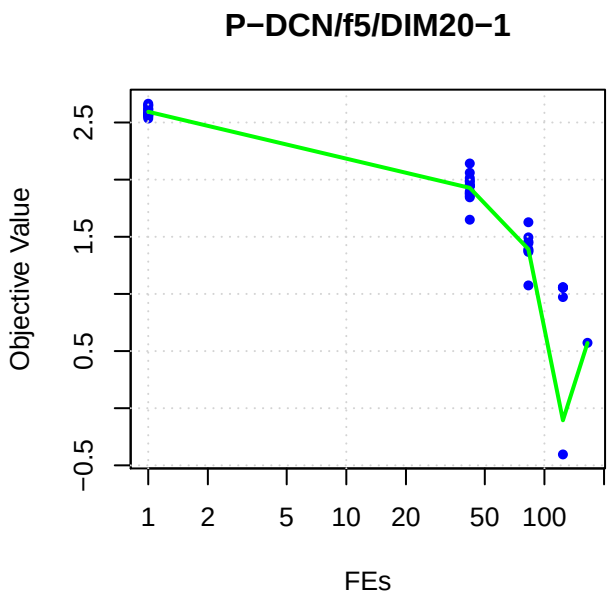
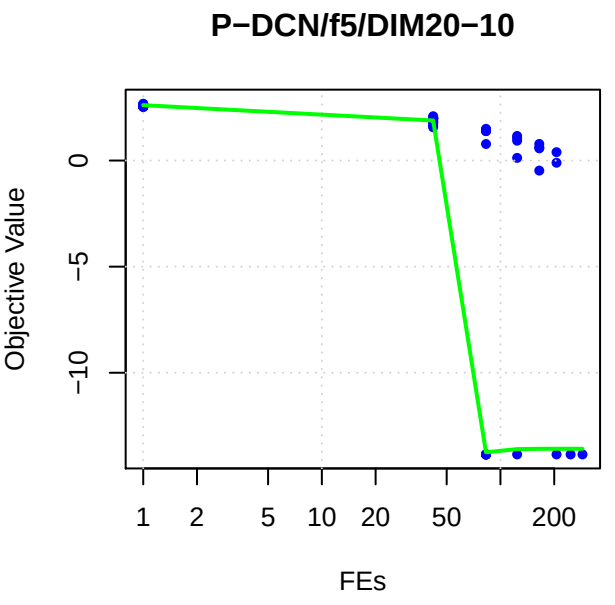
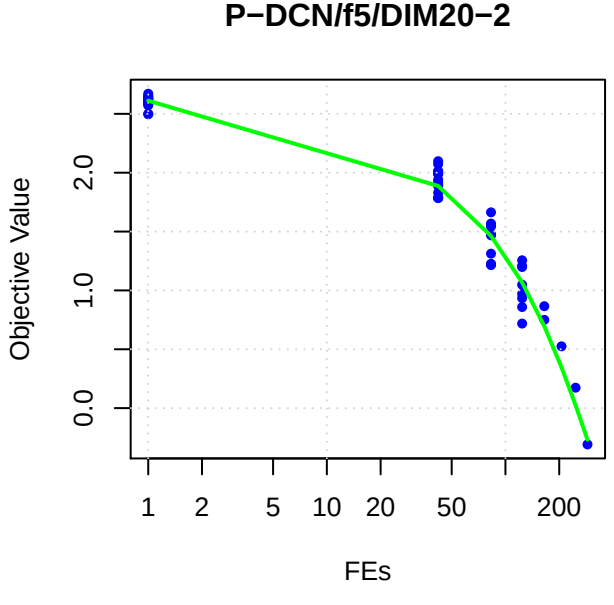
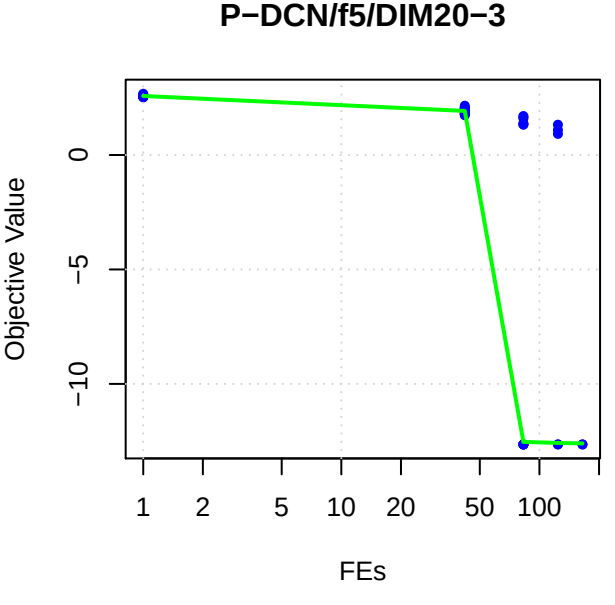
−5
−10
−15
1
2
5
10
20
FEs


P−DCN/f5/DIM2−9
Objective Value
2.0
1.5
1.0
0.5
0.0
−1.0
1
2
5
10
FEs


P−DCN/f5/DIM20−1
Objective Value
−0.5
0.5
1.5
2.5
1
2
5
10
20
50
100
FEs


P−DCN/f5/DIM20−10
Objective Value
−10
−5
0
1
2
5
10
20
50
200
FEs


P−DCN/f5/DIM20−2
Objective Value
0.0
1.0
2.0
1
2
5
10
20
50
200
FEs


P−DCN/f5/DIM20−3
Objective Value
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−5
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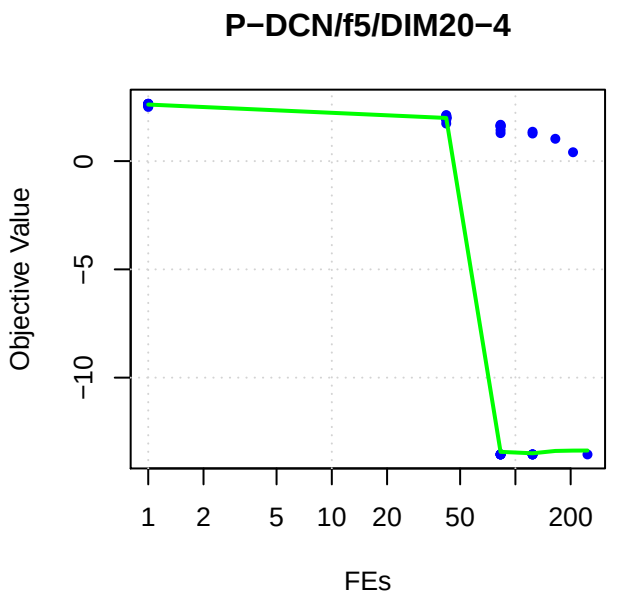
1
2
5
10
20
50
100
FEs


P−DCN/f5/DIM20−4
Objective Value
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−5
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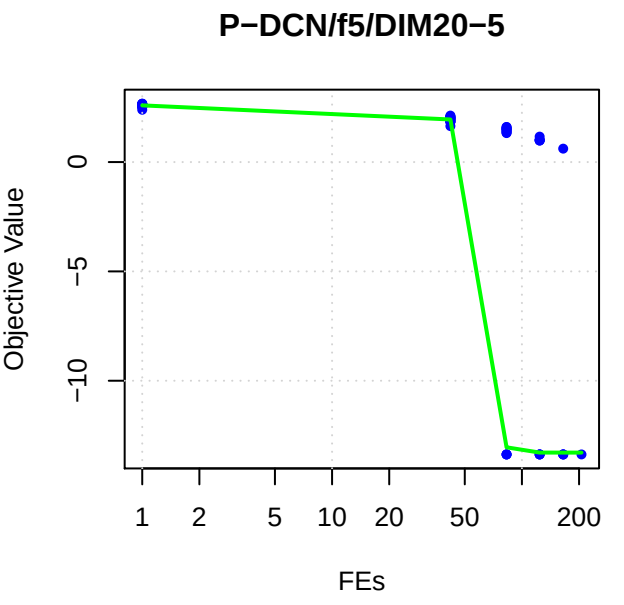
1
2
5
10
20
50
200
FEs


P−DCN/f5/DIM20−5
Objective Value
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−5
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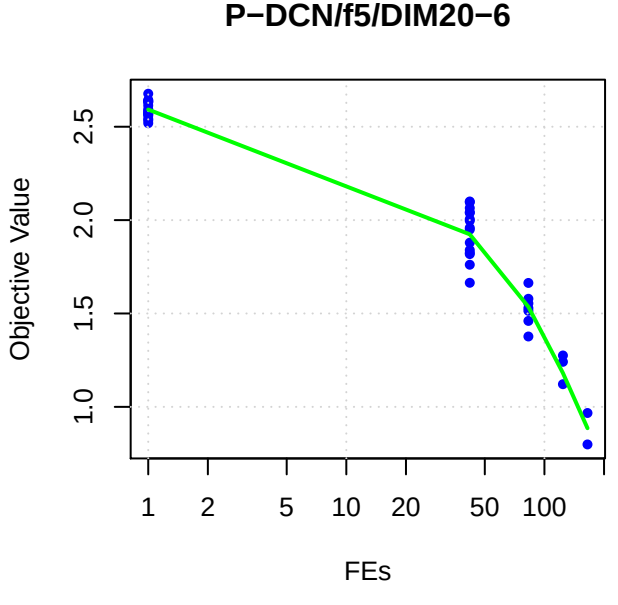
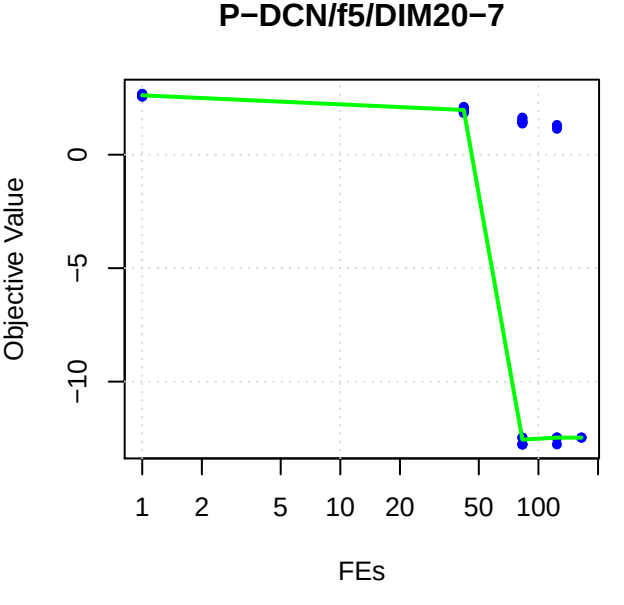
1
2
5
10
20
50
200
FEs


P−DCN/f5/DIM20−6
Objective Value
2.5
2.0
1.5
1.0
1
2
5
10
20
50
100
FEs


P−DCN/f5/DIM20−7
Objective Value
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−10
1
2
5
10
20
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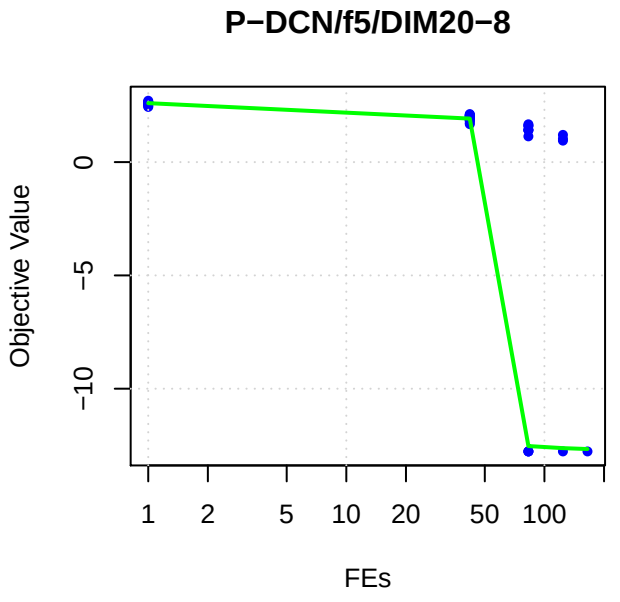
100
FEs


P−DCN/f5/DIM20−8
Objective Value
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2
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10
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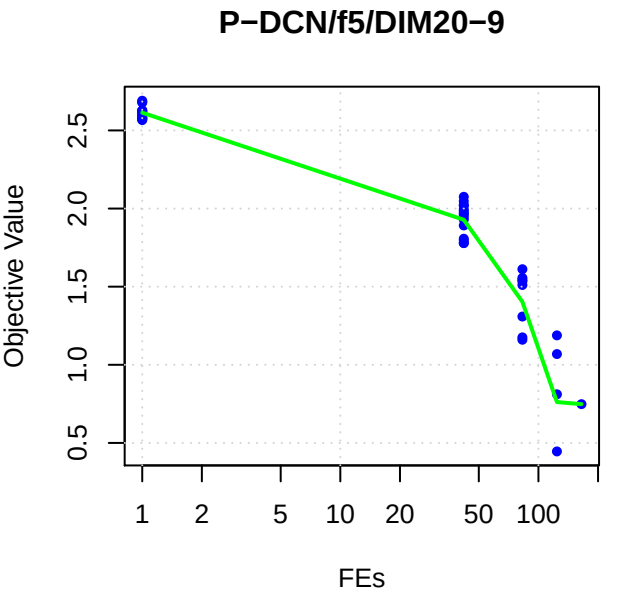
100
FEs


P−DCN/f5/DIM20−9
Objective Value
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2.0
1.5
1.0
0.5
1
2
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20
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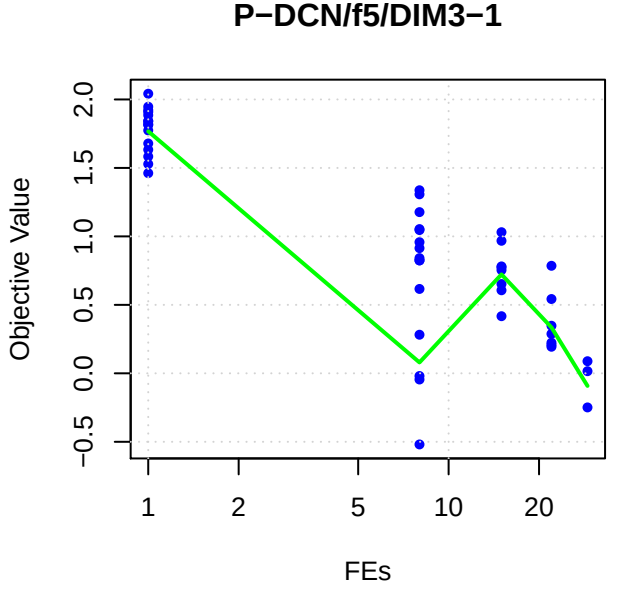
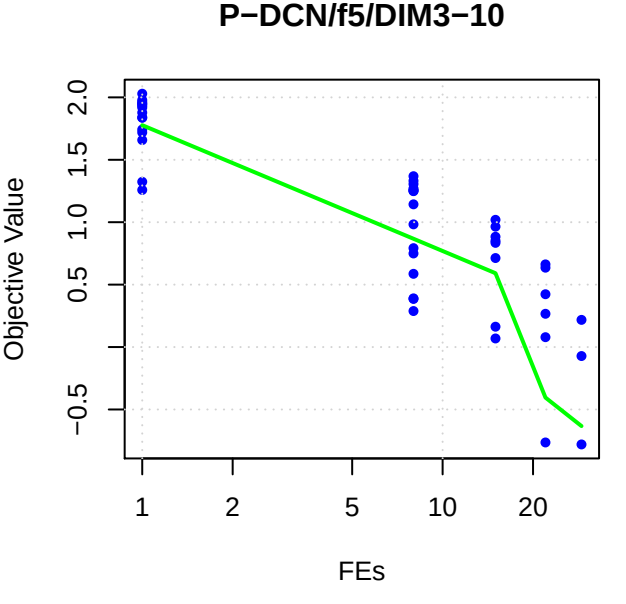
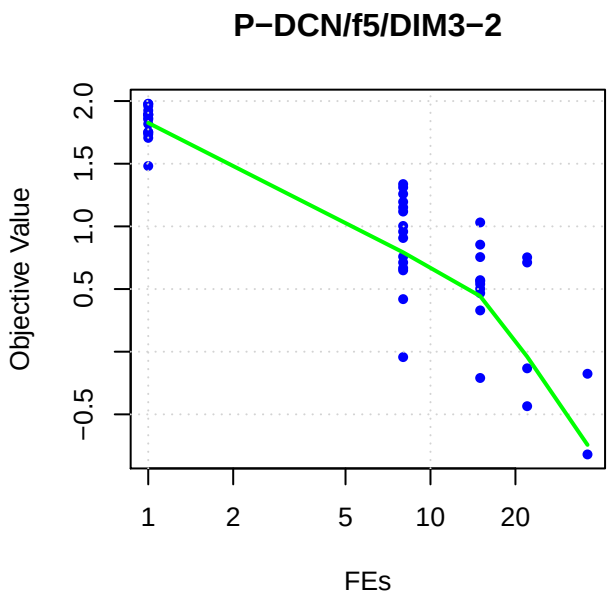
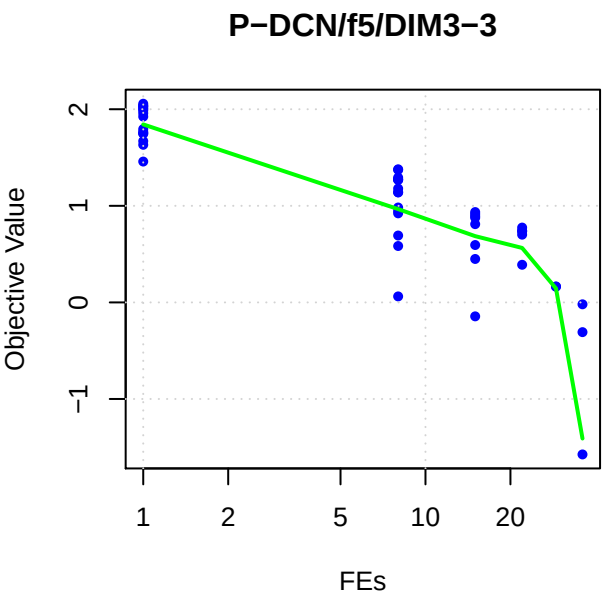
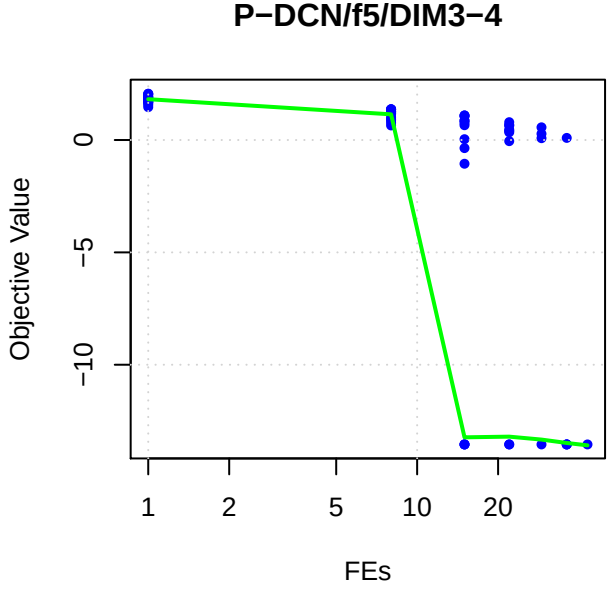
100
FEs

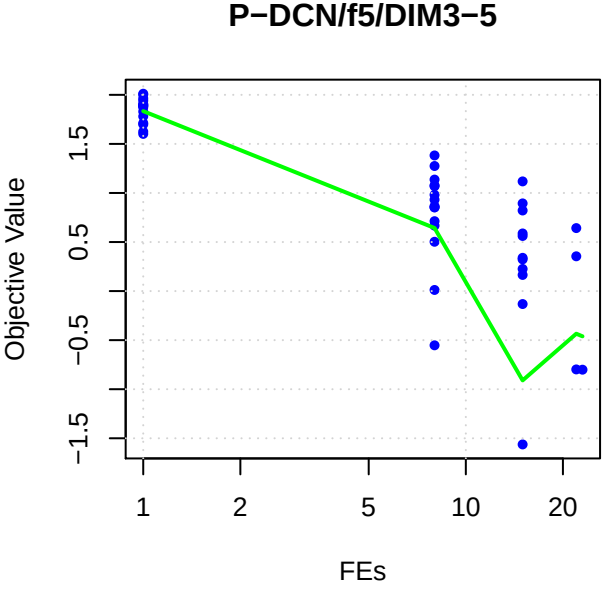

P−DCN/f5/DIM3−1
Objective Value
2.0
1.5
1.0
0.5
0.0
−0.5
1
2
5
10
20
FEs

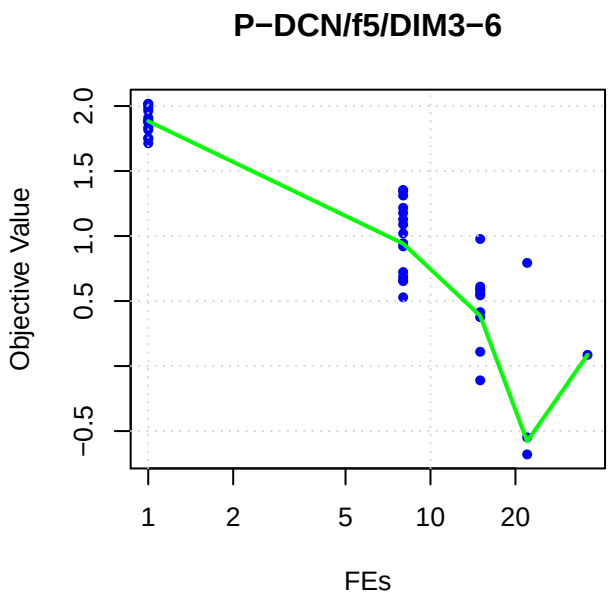

P−DCN/f5/DIM3−10
Objective Value
2.0
1.5
1.0
0.5
−0.5
1
2
5
10
20
FEs

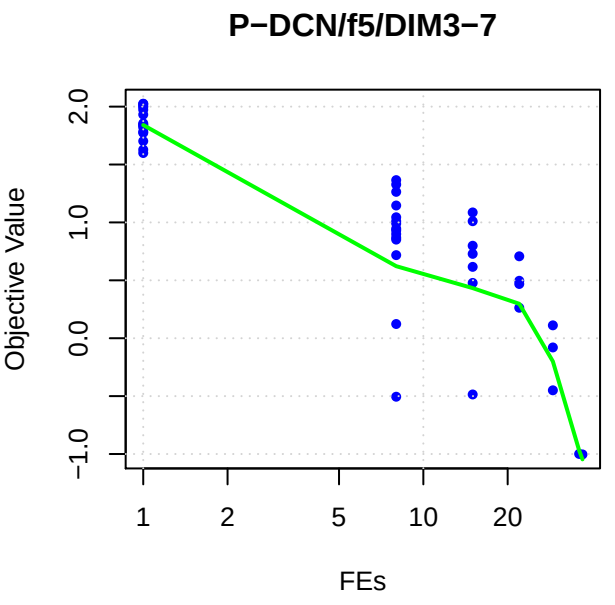

P−DCN/f5/DIM3−2
Objective Value
2.0
1.5
1.0
0.5
−0.5
1
2
5
10
20
FEs

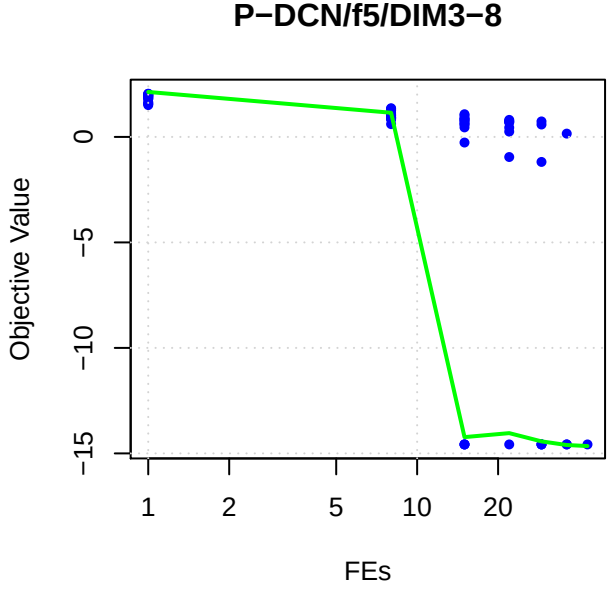

P−DCN/f5/DIM3−3
Objective Value
2
1
0
−1
1
2
5
10
20
FEs


P−DCN/f5/DIM3−4
Objective Value
0
−5
−10
1
2
5
10
20
FEs


P−DCN/f5/DIM3−5
Objective Value
1.5
0.5
−0.5
−1.5
1
2
5
10
20
FEs


P−DCN/f5/DIM3−6
Objective Value
2.0
1.5
1.0
0.5
−0.5
1
2
5
10
20
FEs


P−DCN/f5/DIM3−7
Objective Value
2.0
1.0
0.0
−1.0
1
2
5
10
20
FEs


P−DCN/f5/DIM3−8
Objective Value
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−5
−10
−15
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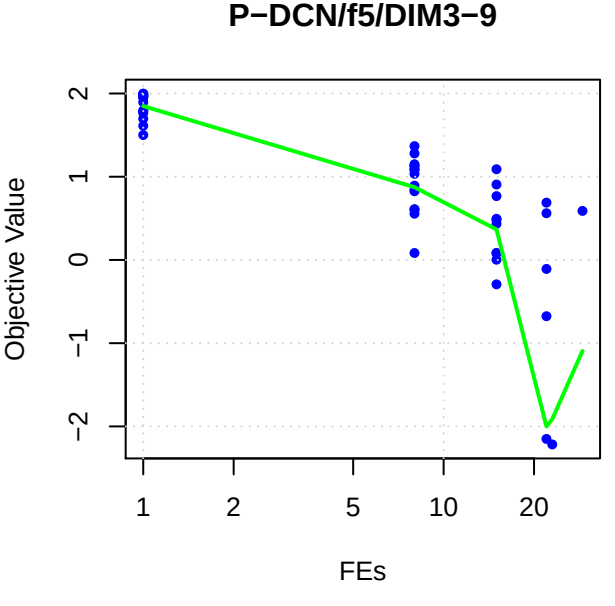
2
5
10
20
FEs


P−DCN/f5/DIM3−9
Objective Value
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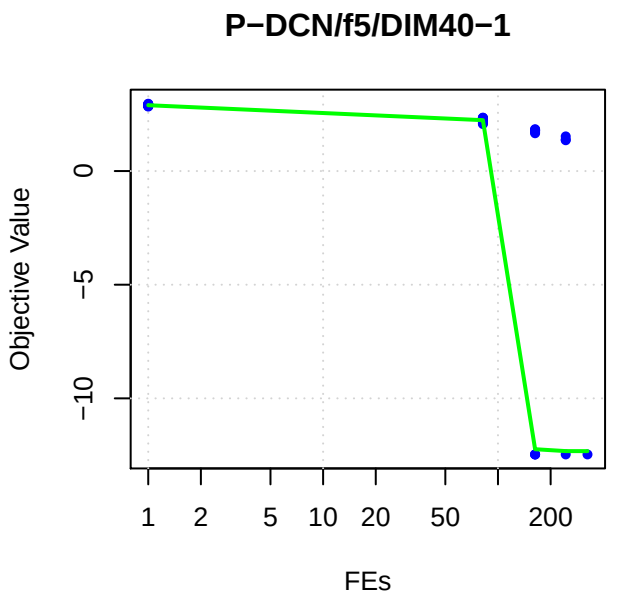
1
0
−1
−2
1
2
5
10
20
FEs


P−DCN/f5/DIM40−1
Objective Value
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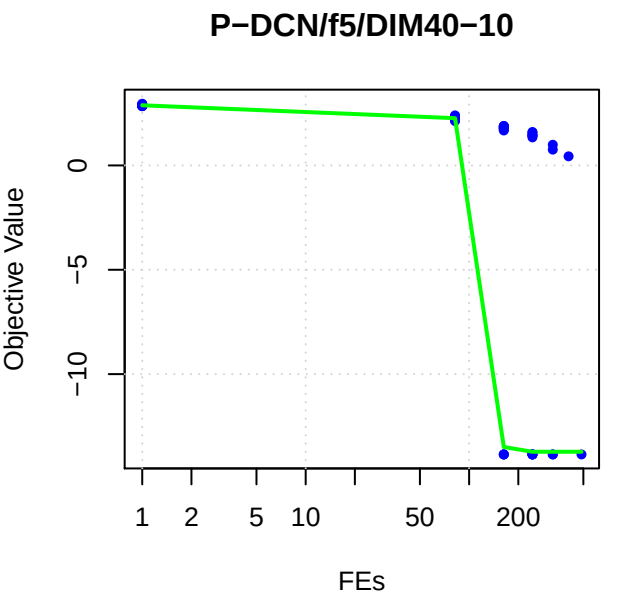
−5
−10
1
2
5
10
20
50
200
FEs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Objective Value
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−5
−10
1
2
5
10
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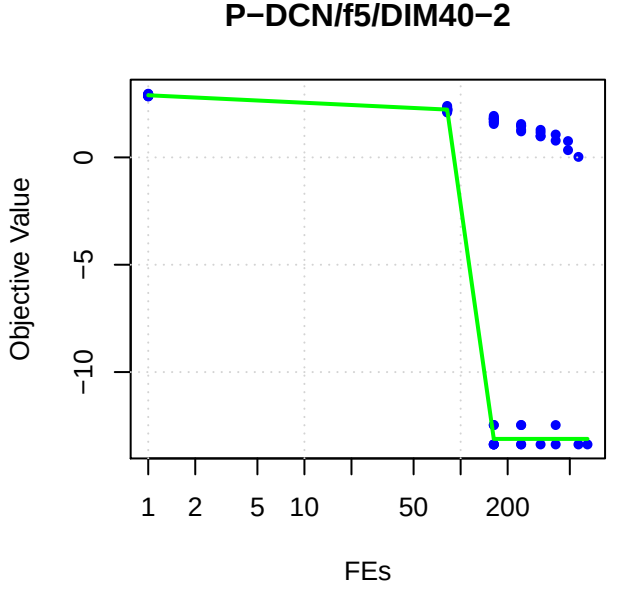
200
FEs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Objective Value
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−5
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1
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10
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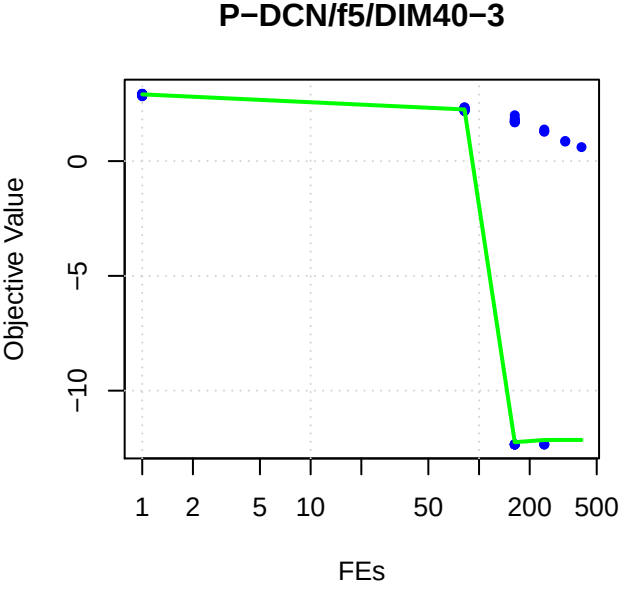
200
FEs


P−DCN/f5/DIM40−3
Objective Value
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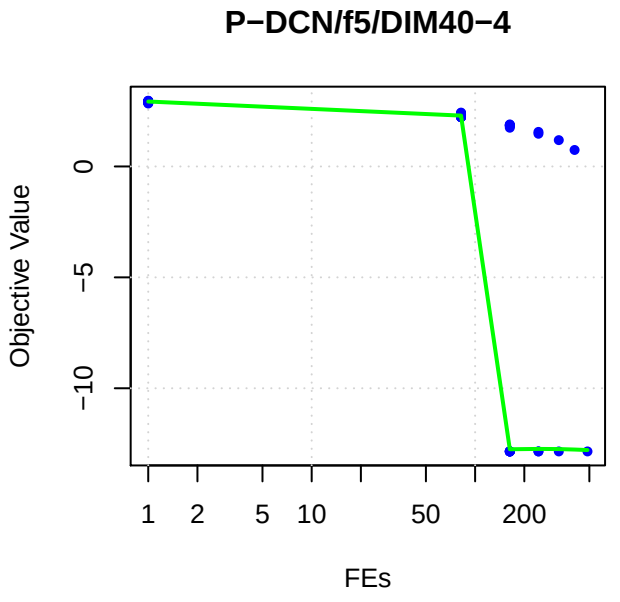
−5
−10
1
2
5
10
50
200
500
FEs


P−DCN/f5/DIM40−4
Objective Value
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−5
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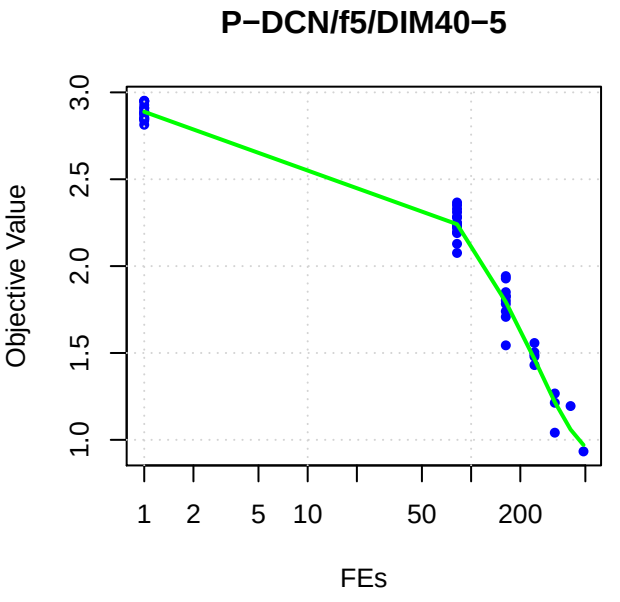
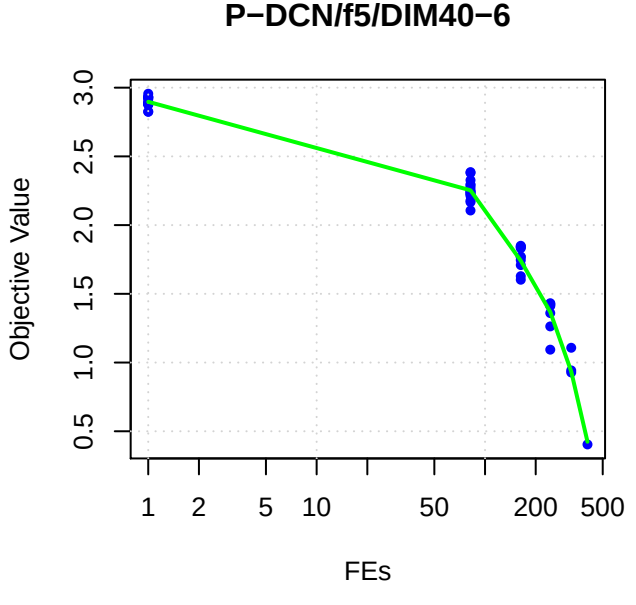
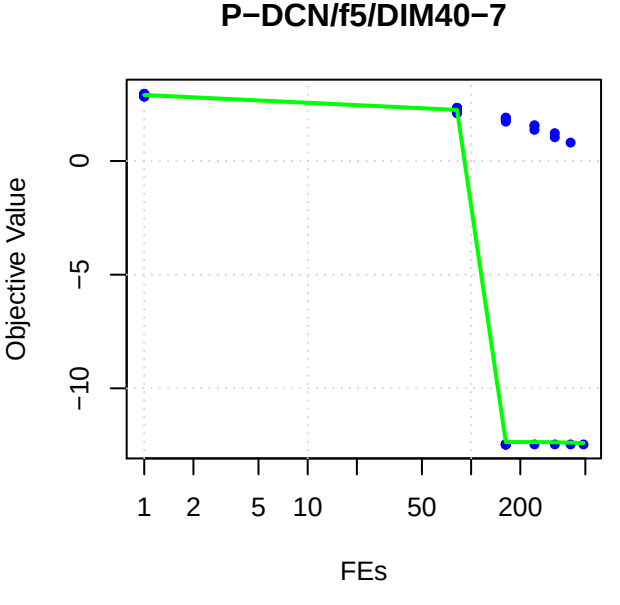
200
FEs


P−DCN/f5/DIM40−5
Objective Value
3.0
2.5
2.0
1.5
1.0
1
2
5
10
50
200
FEs


P−DCN/f5/DIM40−6
Objective Value
3.0
2.5
2.0
1.5
1.0
0.5
1
2
5
10
50
200
500
FEs


P−DCN/f5/DIM40−7
Objective Value
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10
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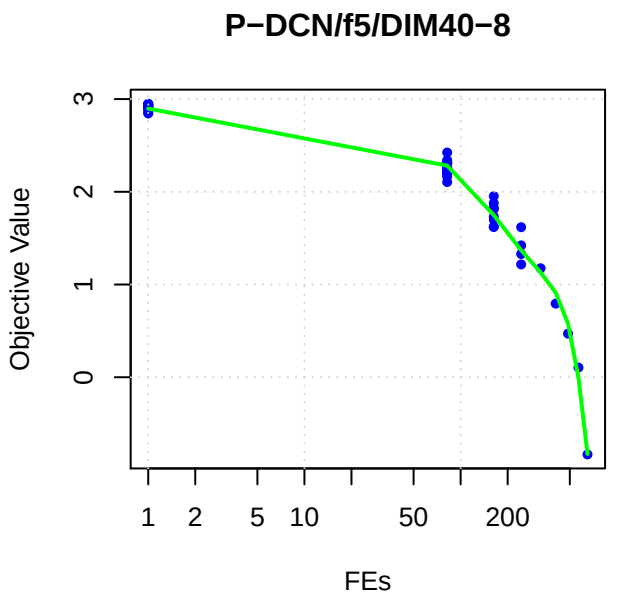
200
FEs


P−DCN/f5/DIM40−8
Objective Value
FEs
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1
0
1
2
5
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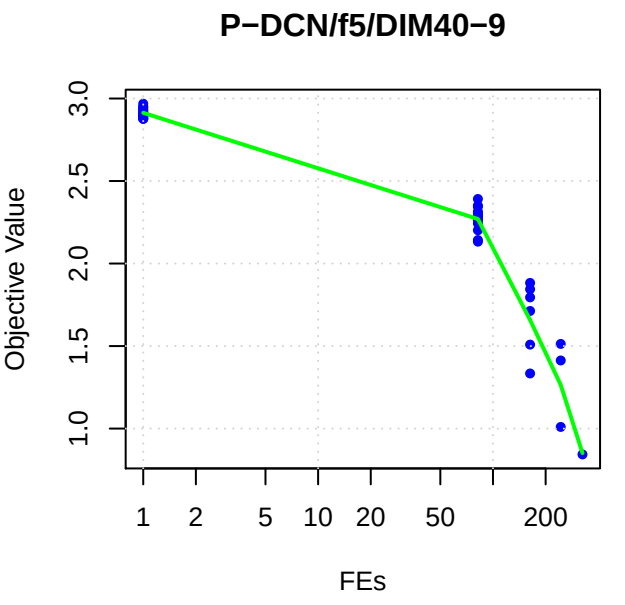
200


P−DCN/f5/DIM40−9
Objective Value
FEs
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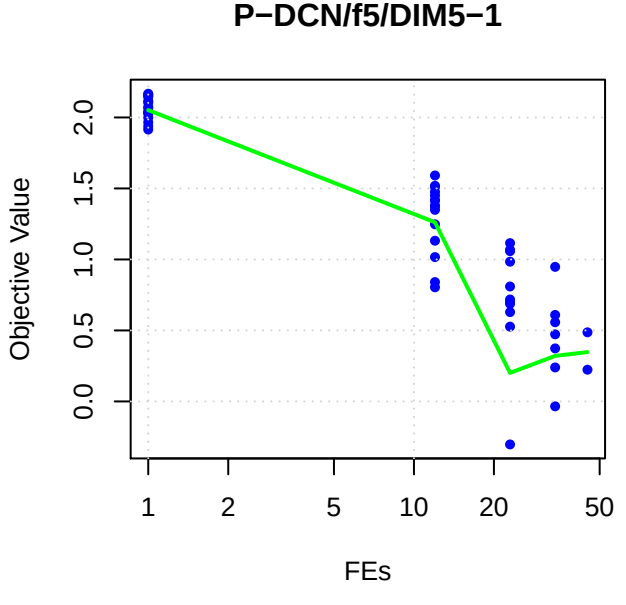
2.5
2.0
1.5
1.0
1
2
5
10
20
50
200


P−DCN/f5/DIM5−1
Objective Value
FEs
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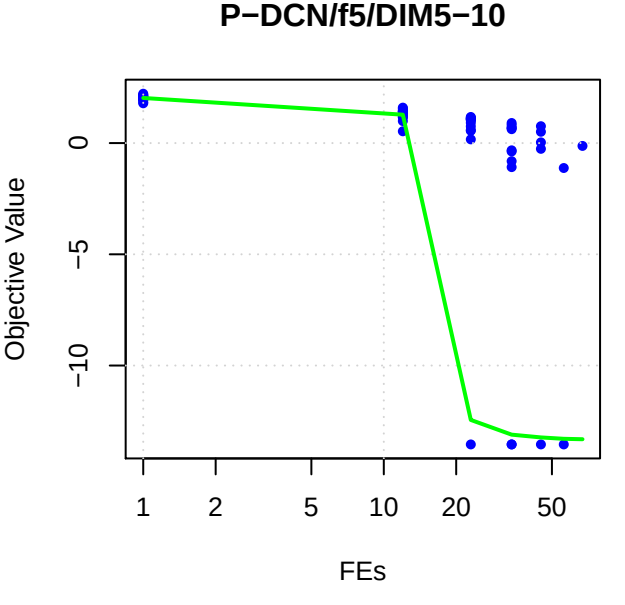
1.5
1.0
0.5
0.0
1
2
5
10
20
50


P−DCN/f5/DIM5−10
Objective Value
FEs
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−5
−10
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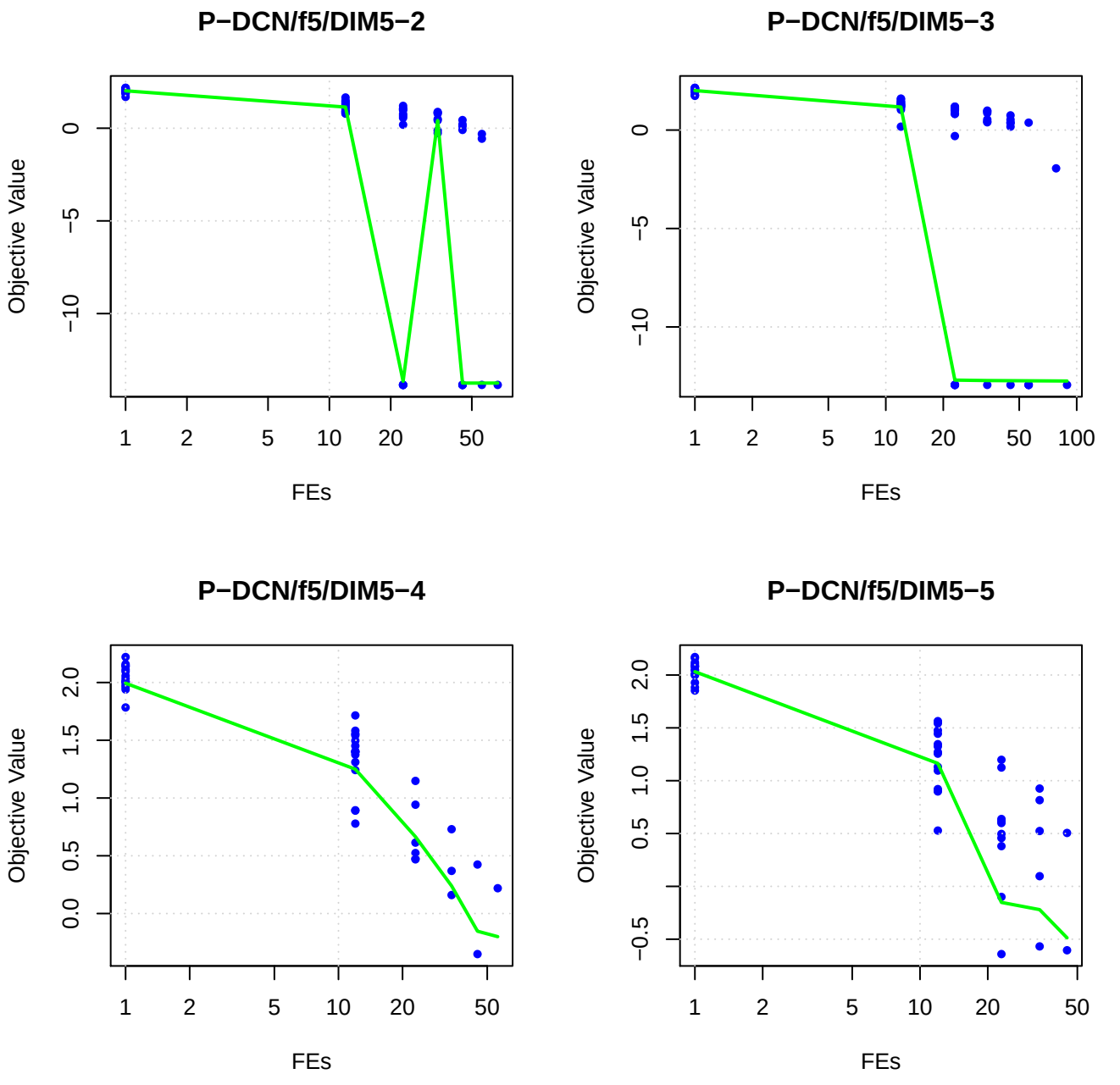
2
5
10
20
50


P−DCN/f5/DIM5−2
Objective Value
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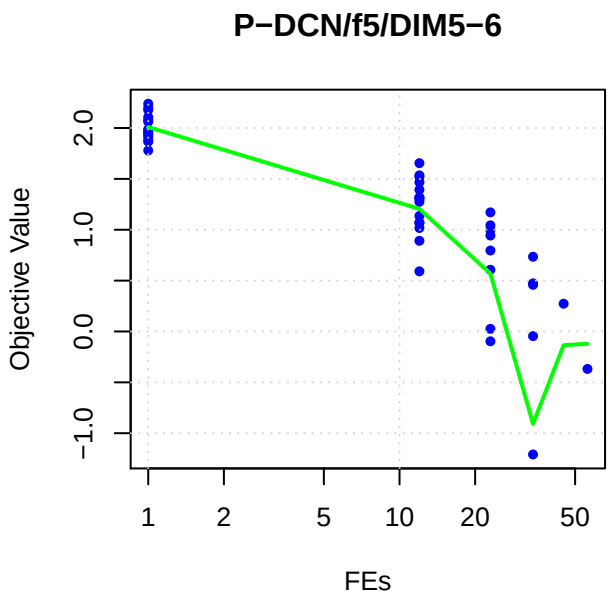
−5
−10
1
2
5
10
20
50
FEs
P−DCN/f5/DIM5−3
Objective Value
0
−5
−10
1
2
5
10
20
50
100
FEs
P−DCN/f5/DIM5−4
Objective Value
0.0
0.5
1.0
1.5
2.0
1
2
5
10
20
50
FEs
P−DCN/f5/DIM5−5
Objective Value
−0.5
0.5
1.0
1.5
2.0
1
2
5
10
20
50
FEs


P−DCN/f5/DIM5−6
Objective Value
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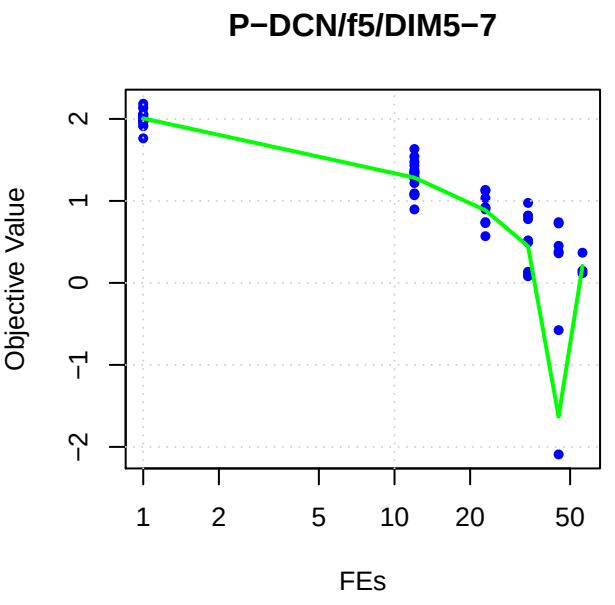
0.0
−1.0
1
2
5
10
20
50
FEs


P−DCN/f5/DIM5−7
Objective Value
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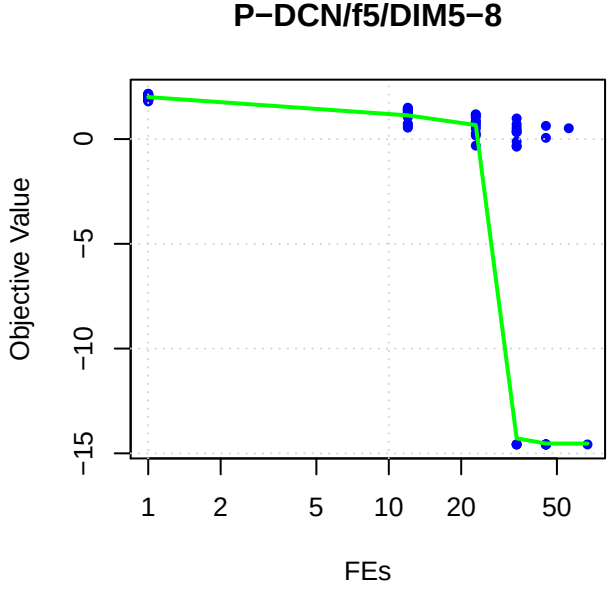
1
0
−1
−2
1
2
5
10
20
50
FEs


P−DCN/f5/DIM5−8
Objective Value
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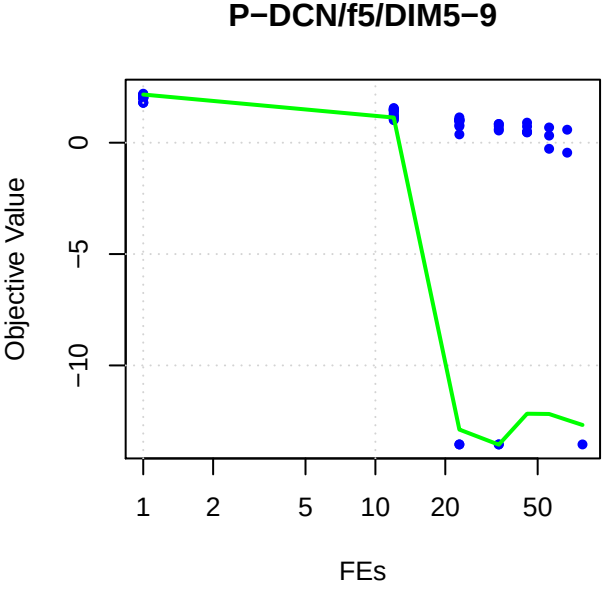
−10
−15
1
2
5
10
20
50
FEs


P−DCN/f5/DIM5−9
Objective Value
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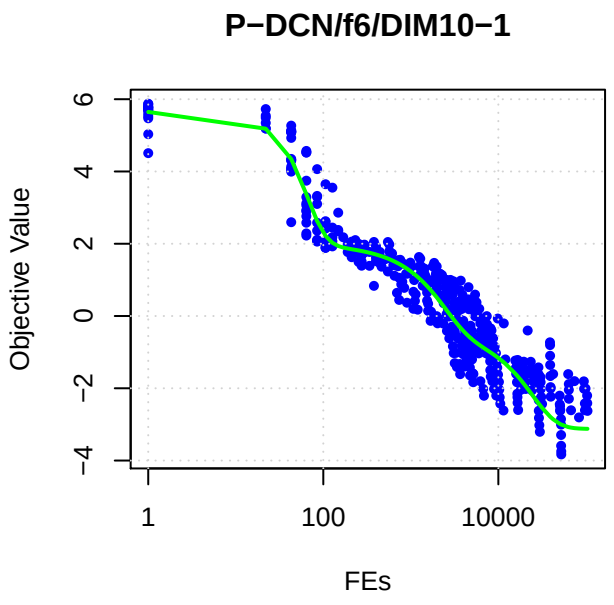
−5
−10
1
2
5
10
20
50
FEs


P−DCN/f6/DIM10−1
Objective Value
FEs
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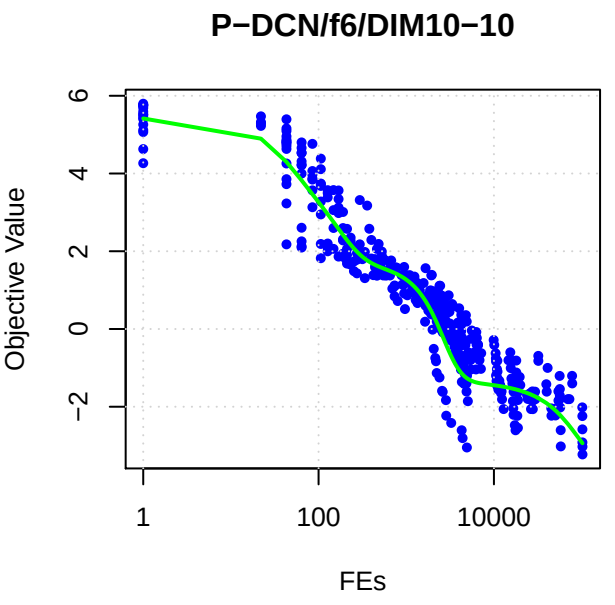
4
2
0
−2
−4
1
100
10000


P−DCN/f6/DIM10−10
Objective Value
FEs
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4
2
0
−2
1
100
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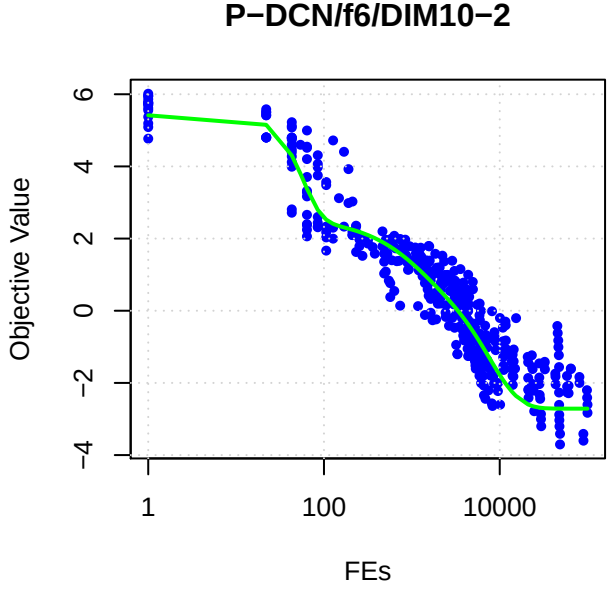
P−DCN/f6/DIM10−2
Objective Value
FEs
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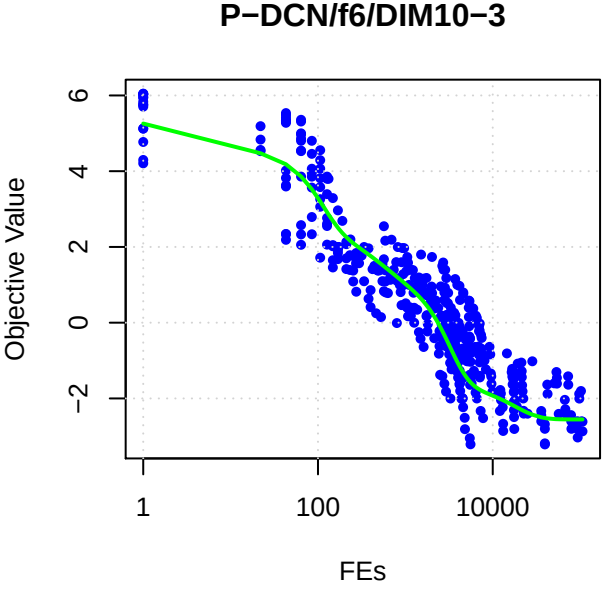
2
0
−2
−4
1
100
10000


P−DCN/f6/DIM10−3
Objective Value
FEs
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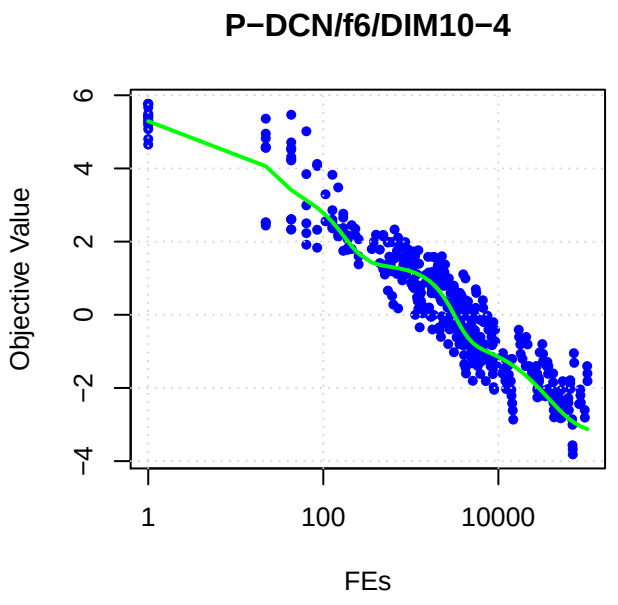
0
−2
1
100
10000


P−DCN/f6/DIM10−4
Objective Value
FEs
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2
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−4
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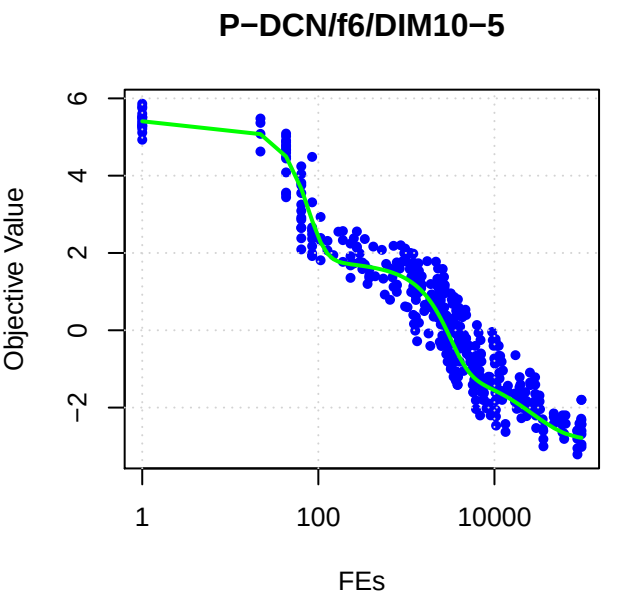
P−DCN/f6/DIM10−5
Objective Value
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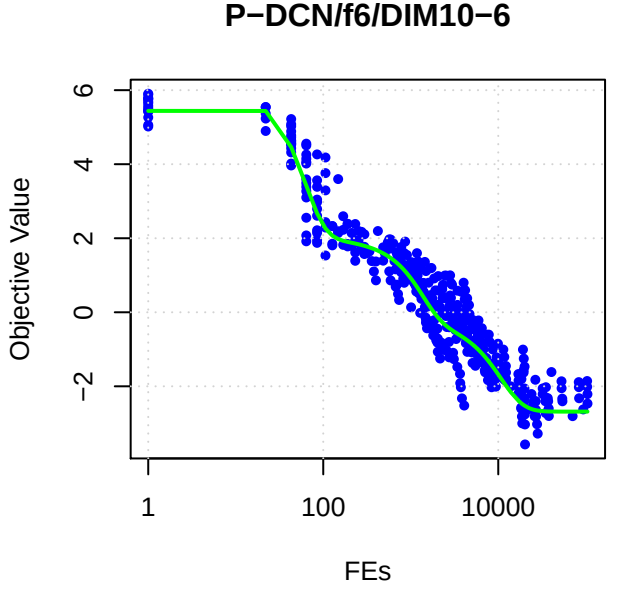
P−DCN/f6/DIM10−6
Objective Value
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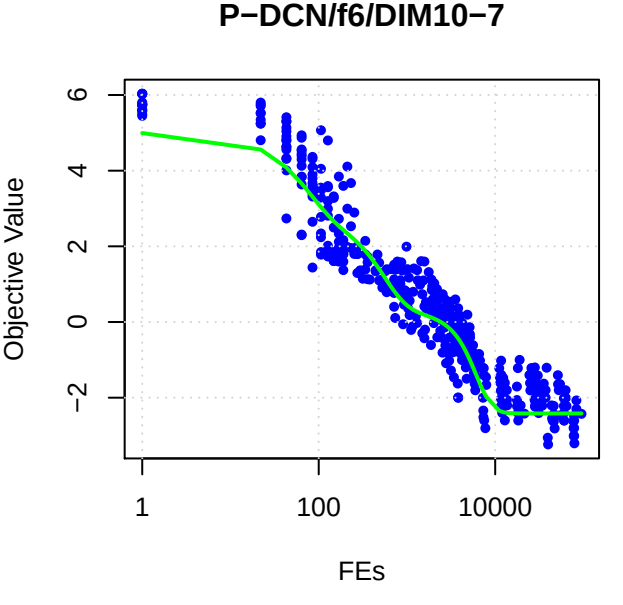
P−DCN/f6/DIM10−7
Objective Value
FEs
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−2
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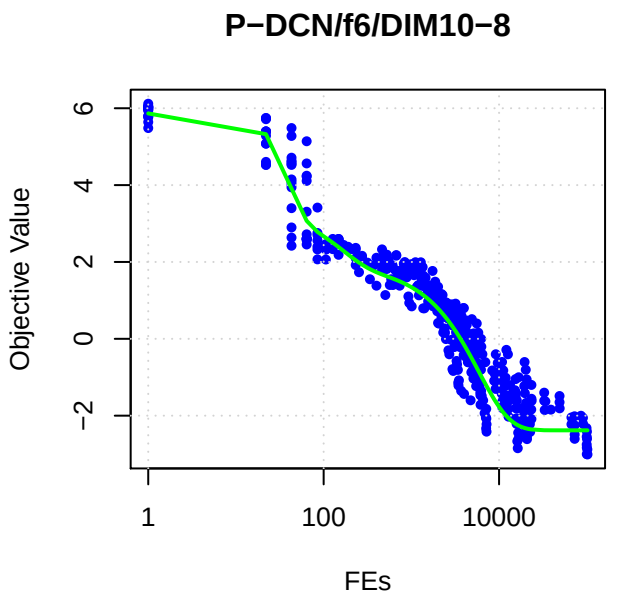
P−DCN/f6/DIM10−8
Objective Value
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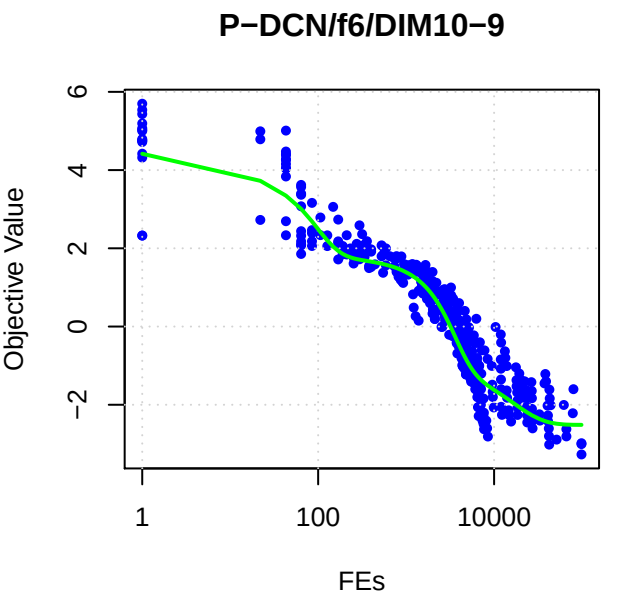
P−DCN/f6/DIM10−9
Objective Value
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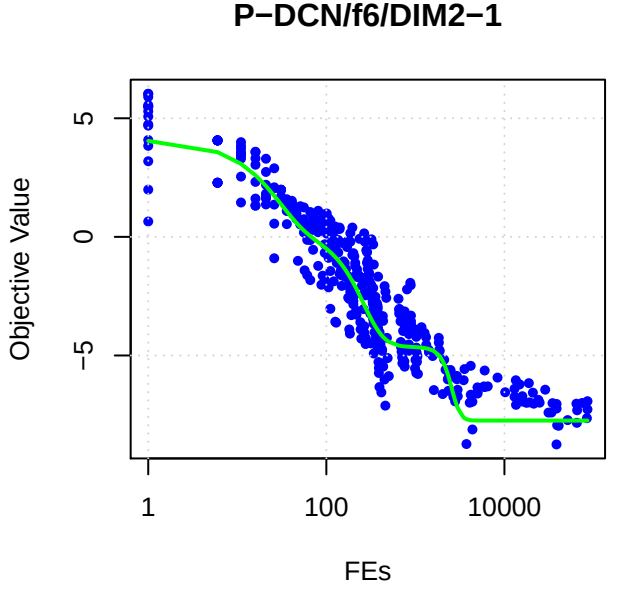
FEs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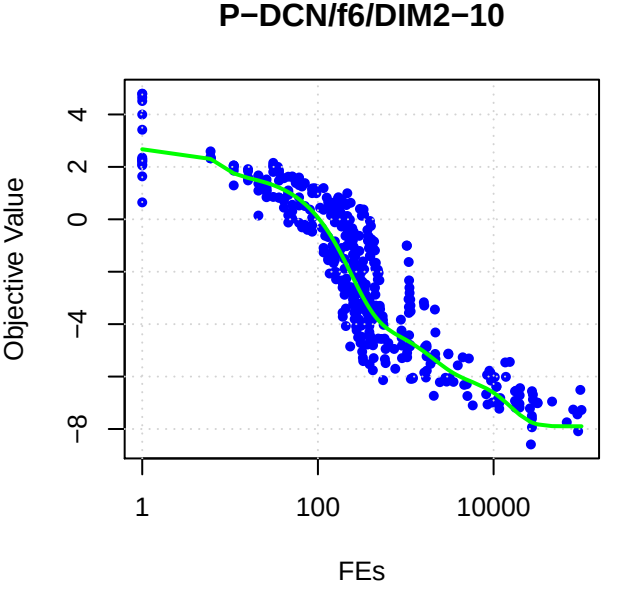
FEs


P−DCN/f6/DIM2−10
Objective Value
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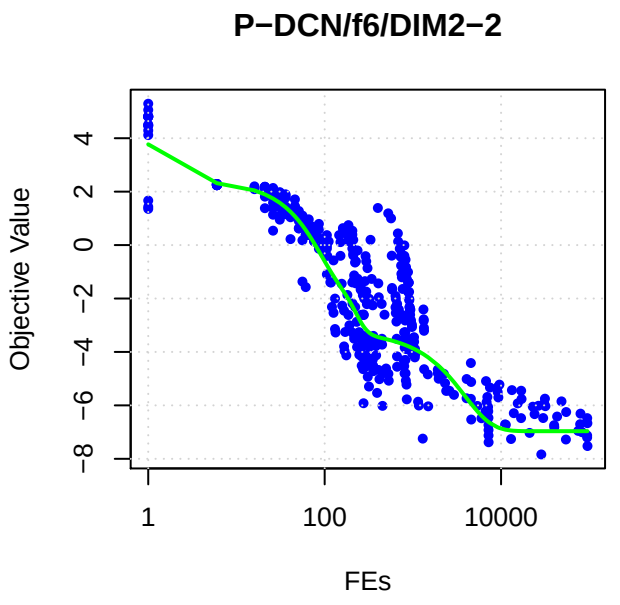
FEs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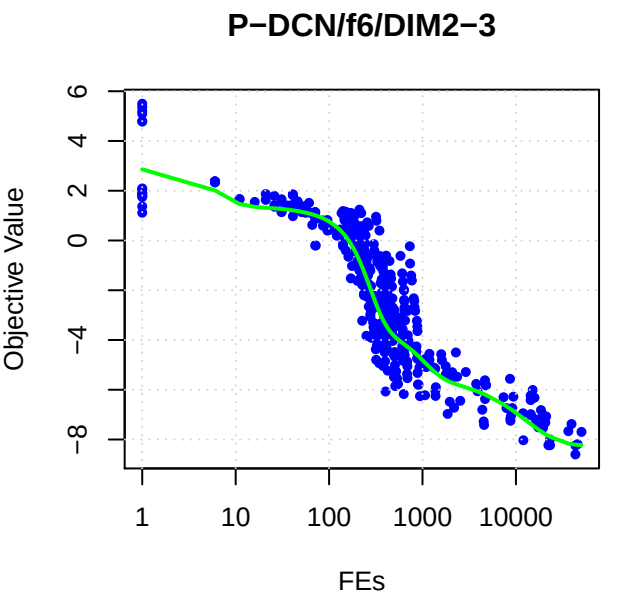
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Objective Value
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1000
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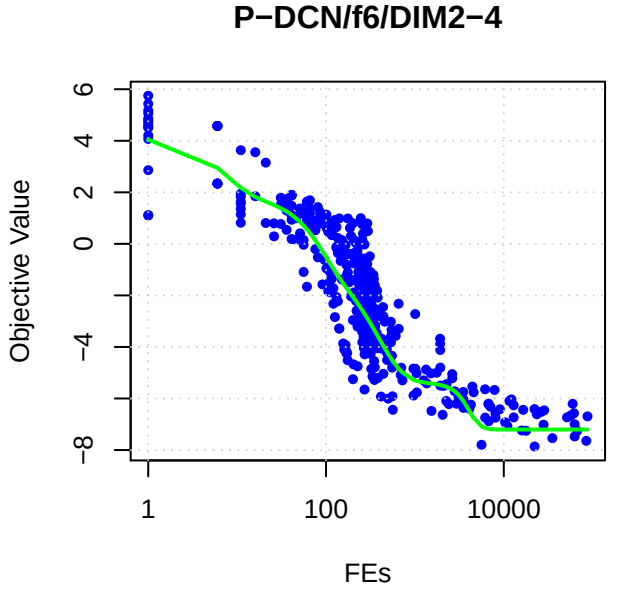
P−DCN/f6/DIM2−4
Objective Value
FEs
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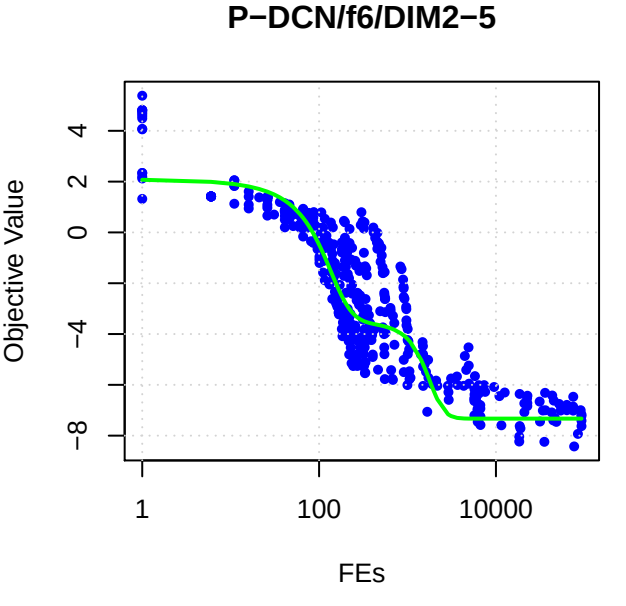
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Objective Value
FEs
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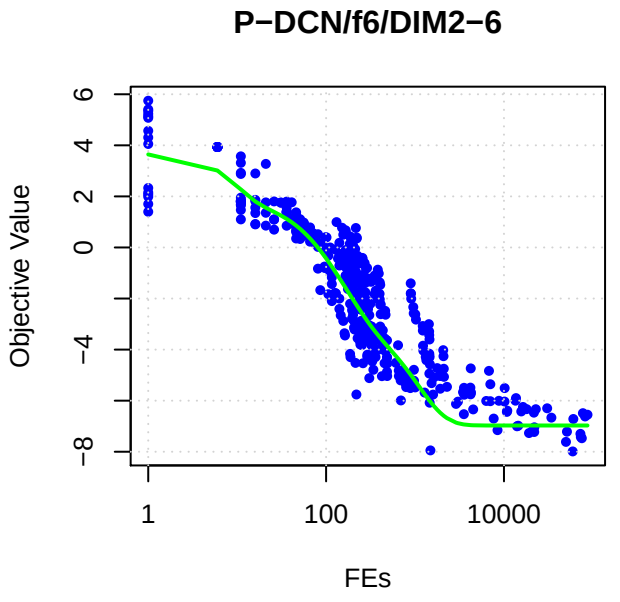
P−DCN/f6/DIM2−6
Objective Value
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−4
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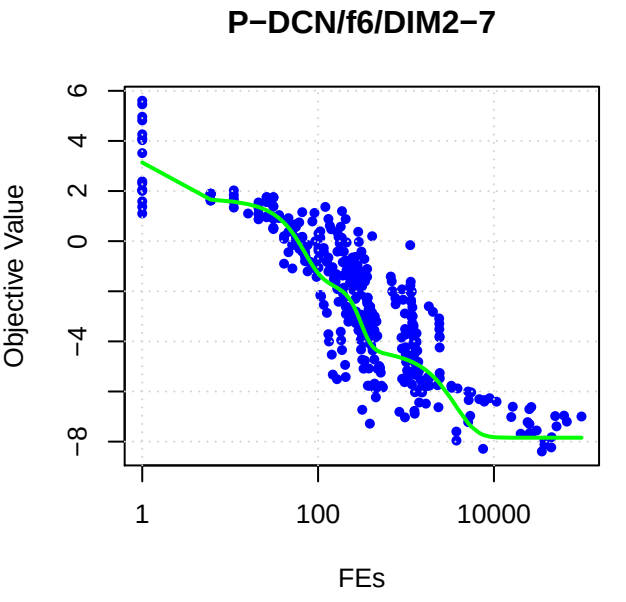
10000
FEs


P−DCN/f6/DIM2−7
Objective Value
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−4
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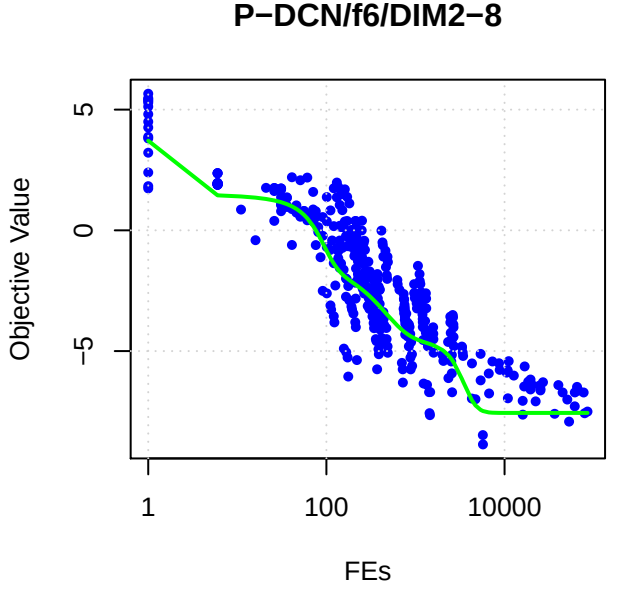
10000
FEs


P−DCN/f6/DIM2−8
Objective Value
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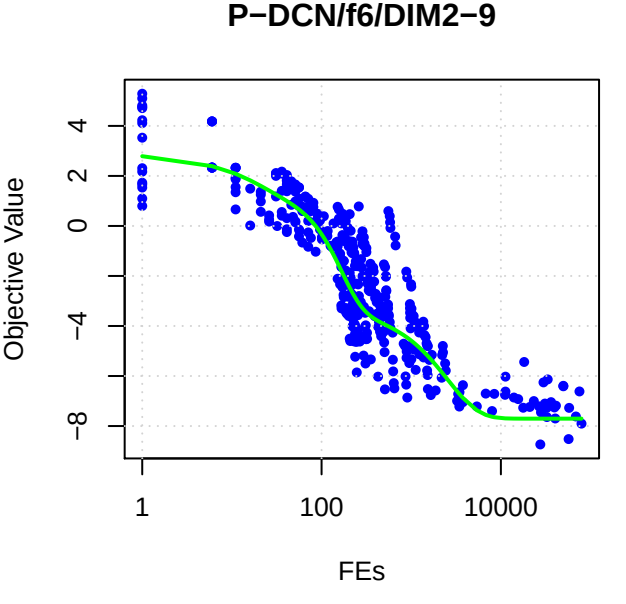
FEs


P−DCN/f6/DIM2−9
Objective Value
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−4
−8
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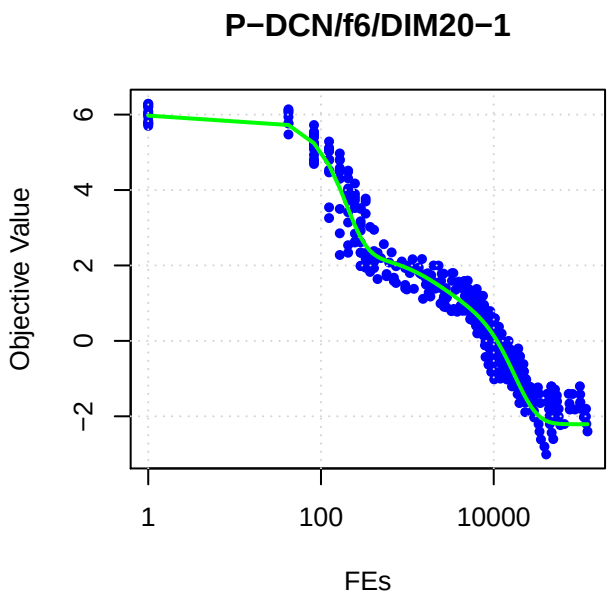
10000
FEs


P−DCN/f6/DIM20−1
Objective Value
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0
−2
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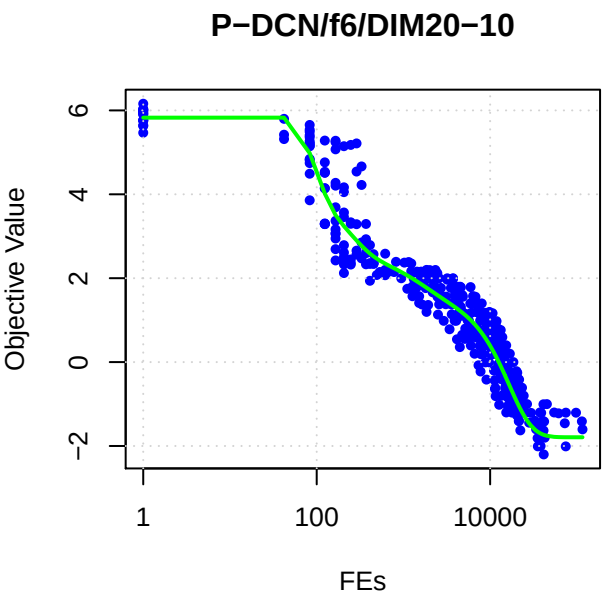
FEs


P−DCN/f6/DIM20−10
Objective Value
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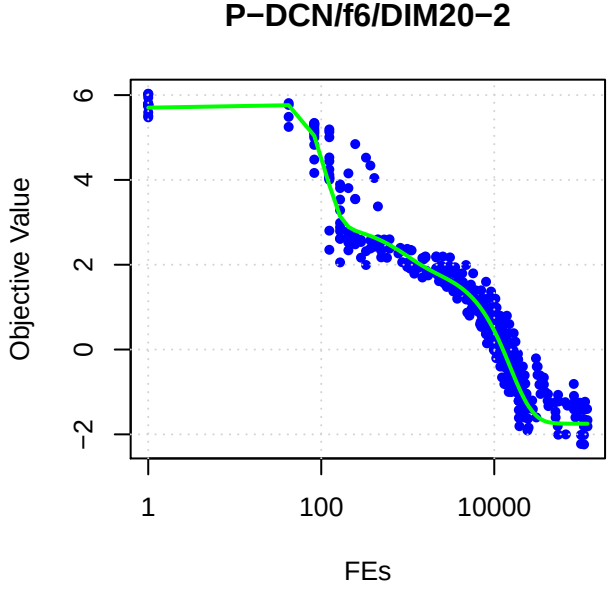
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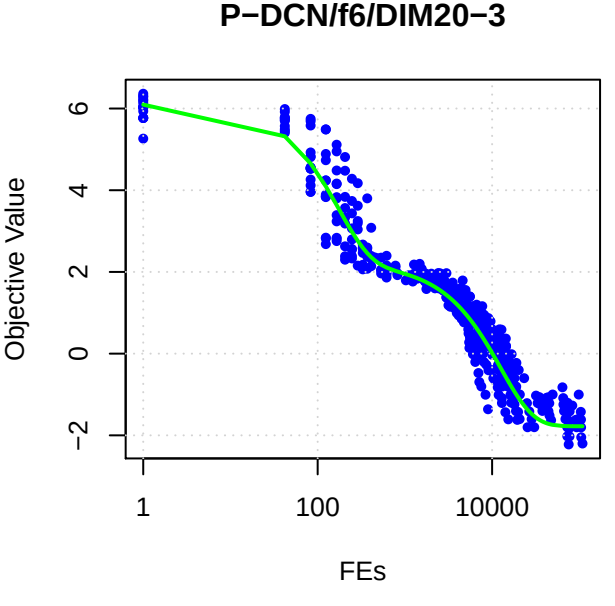
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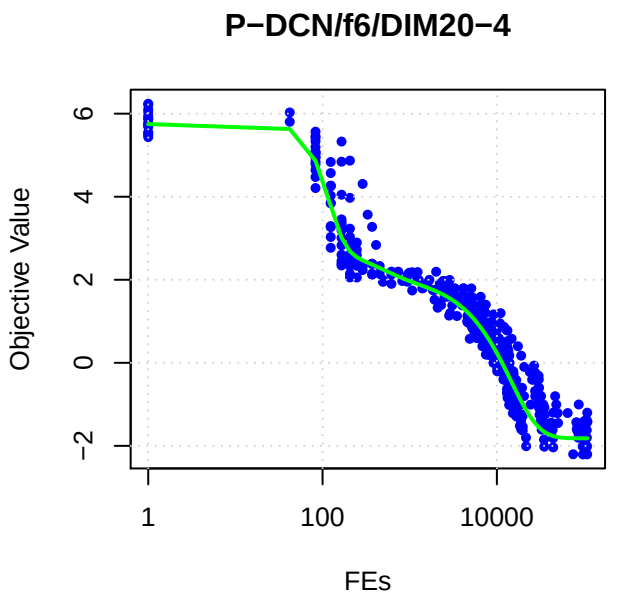
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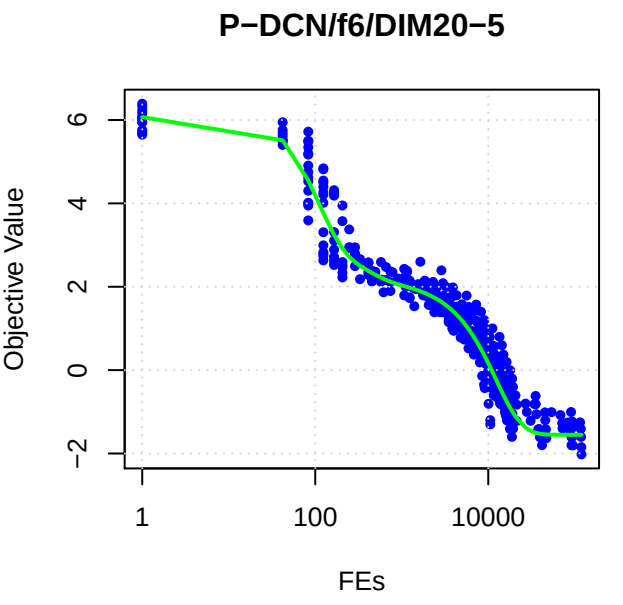
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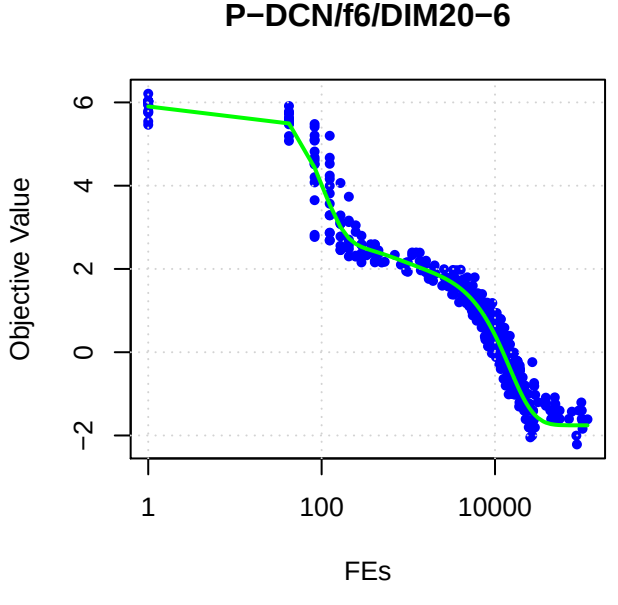
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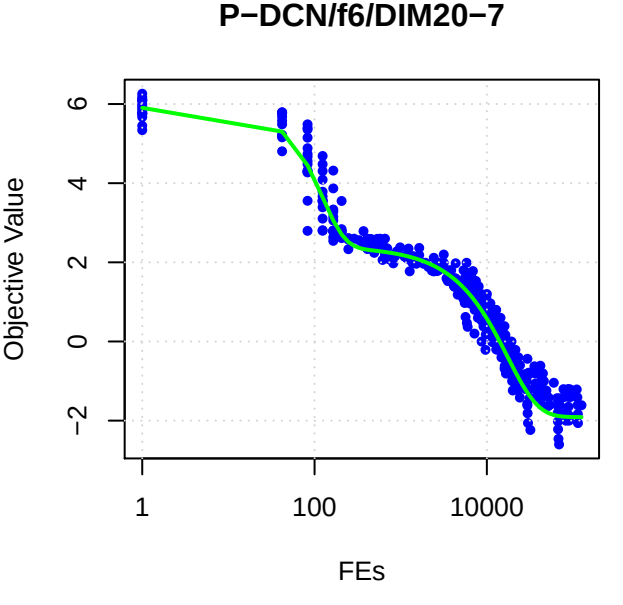
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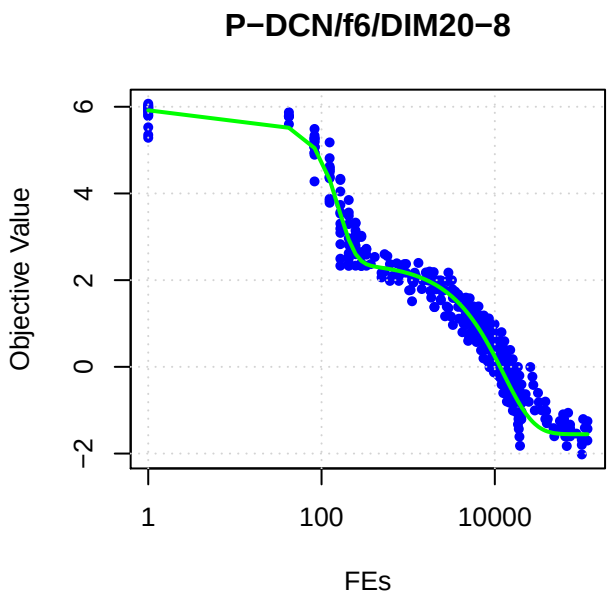
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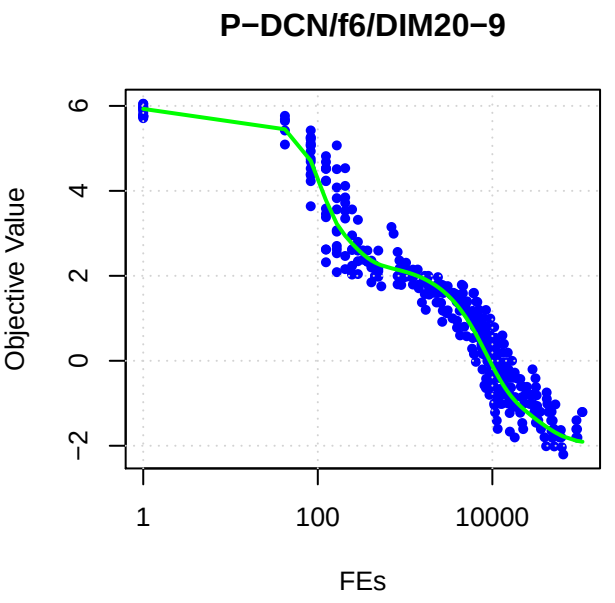
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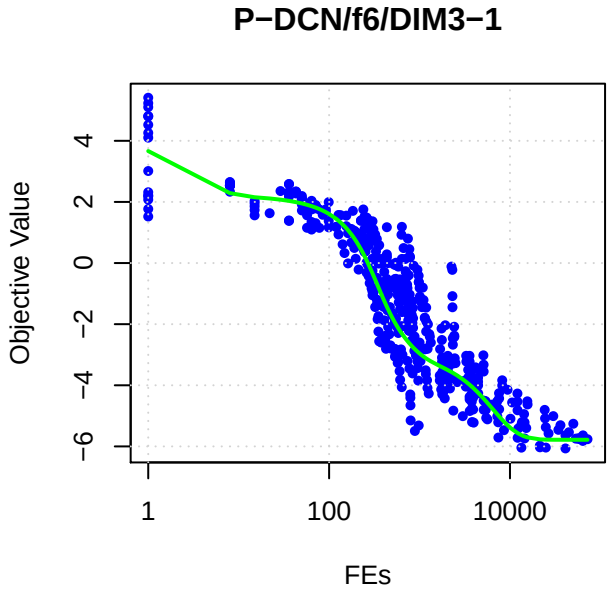
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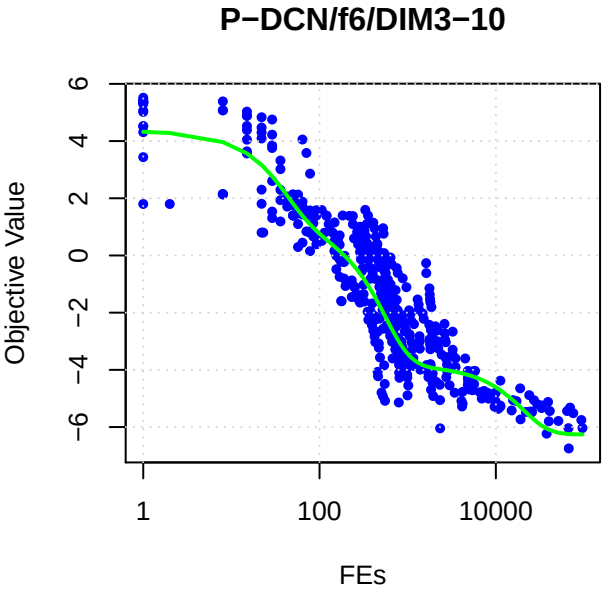
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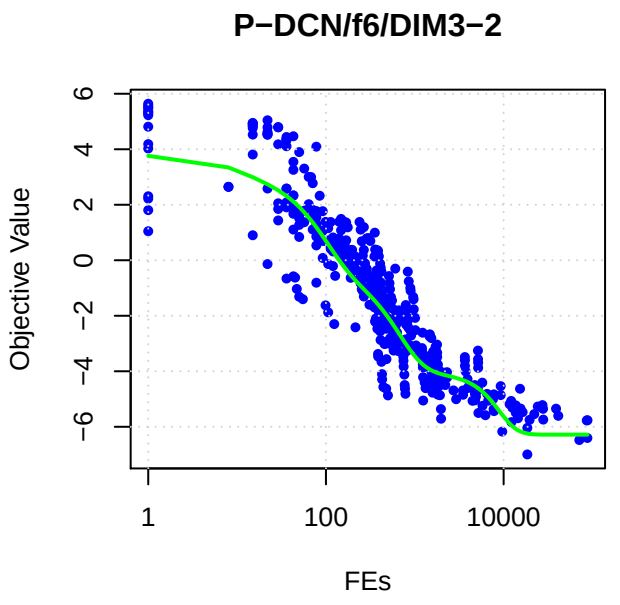
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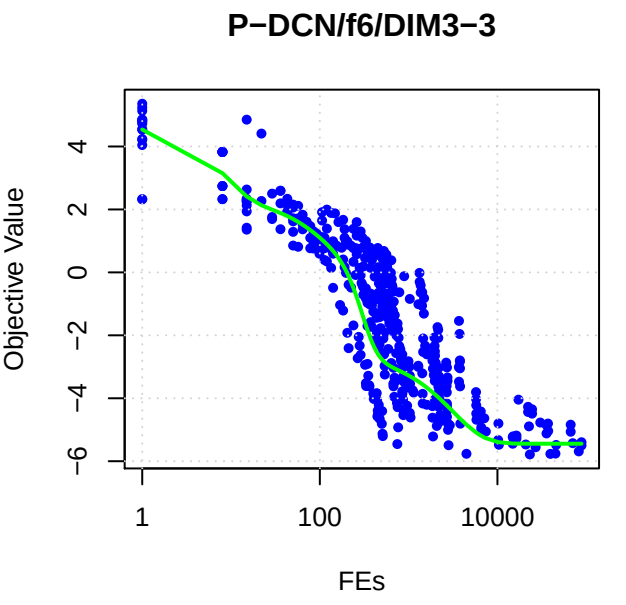
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−2
−4
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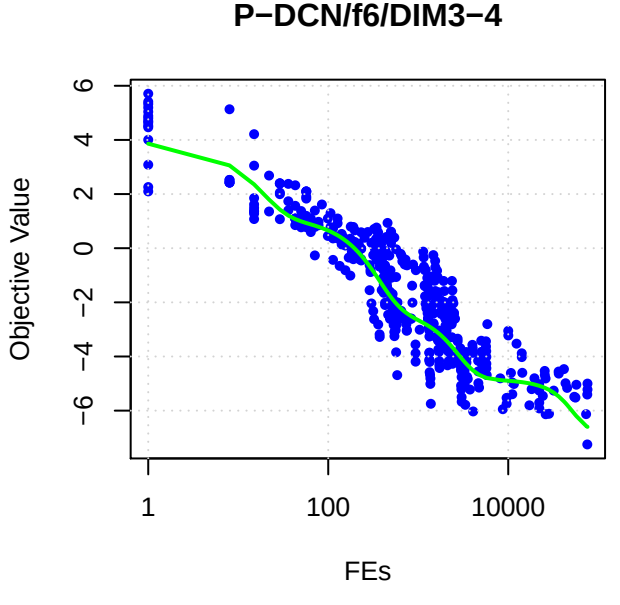
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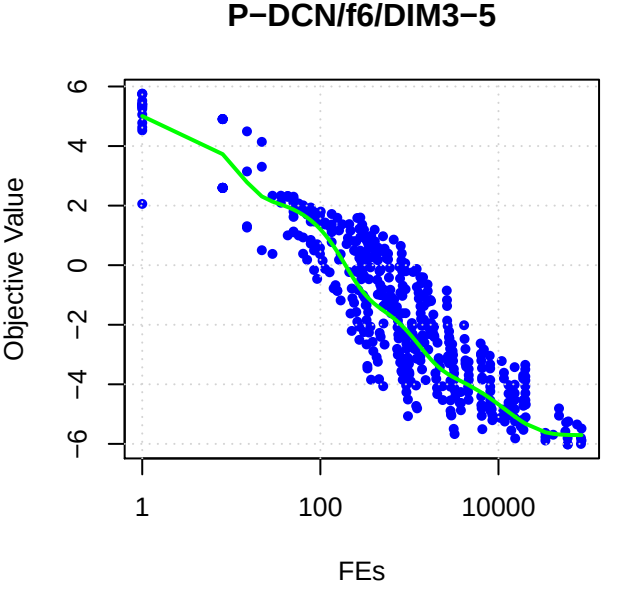
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Objective Value
FEs
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−2
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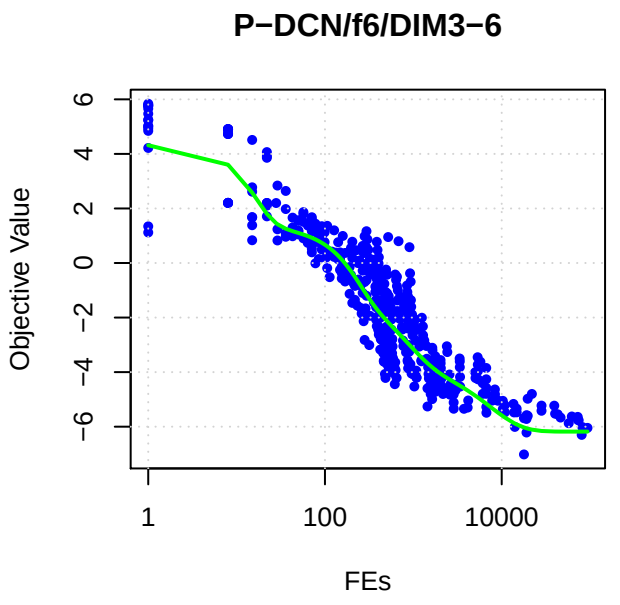
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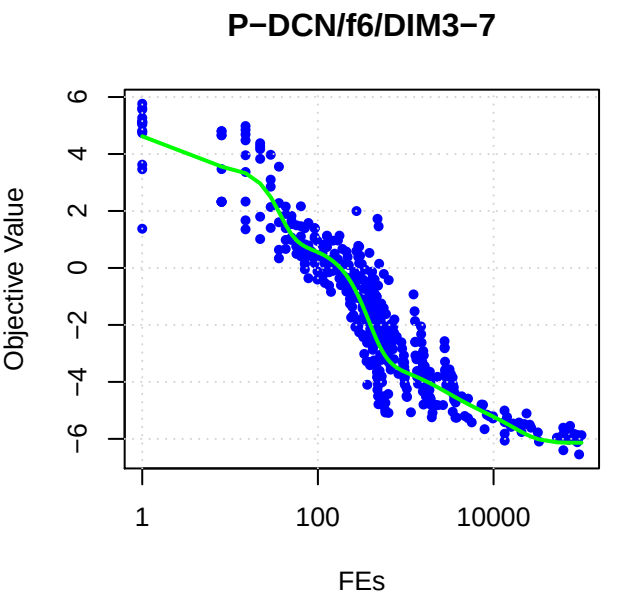
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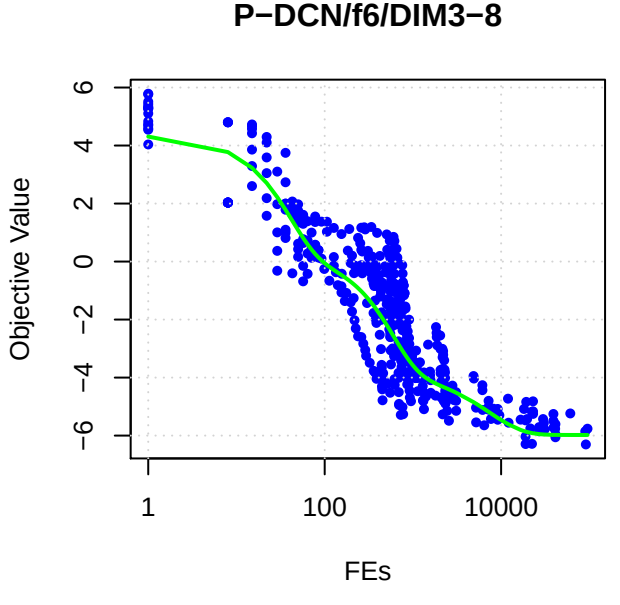
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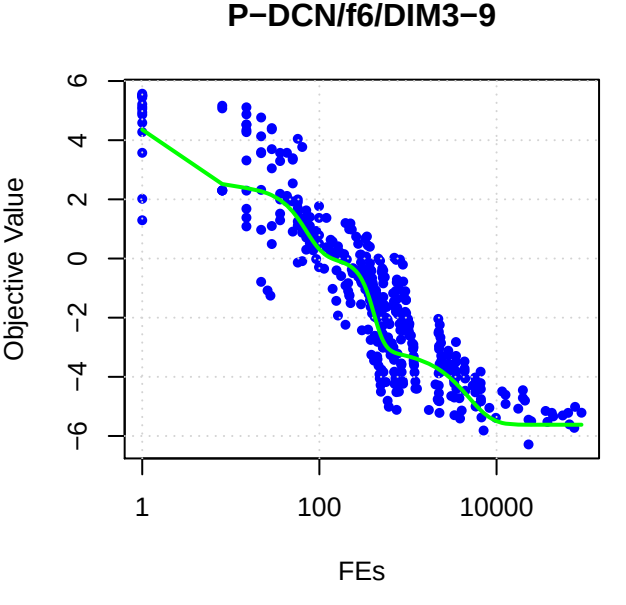
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FEs
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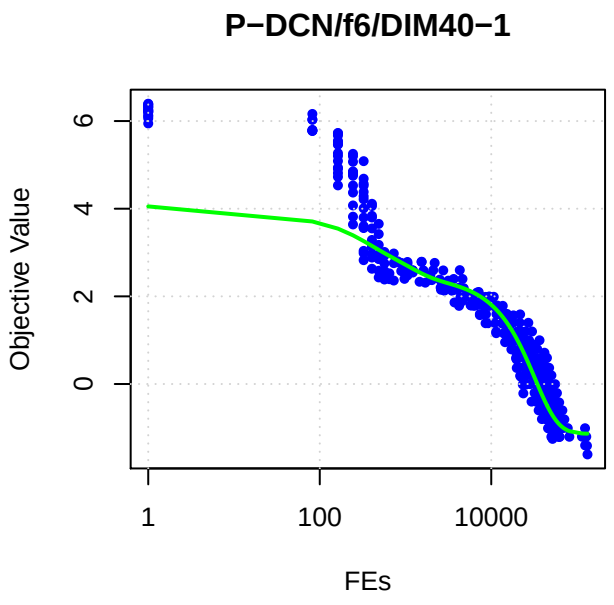
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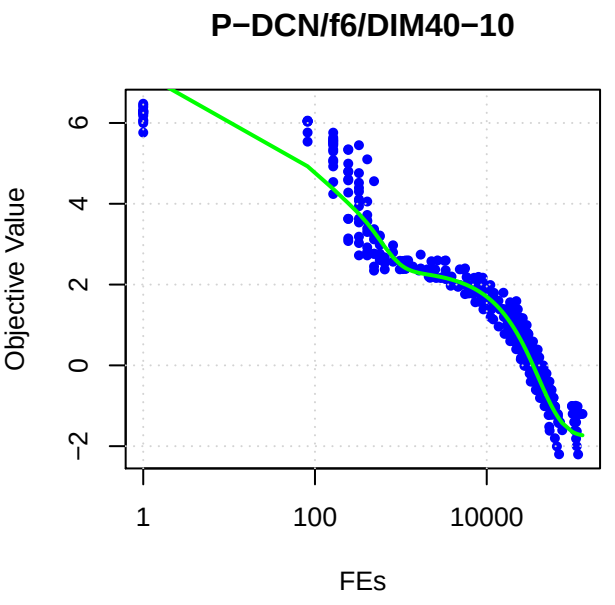
FEs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Objective Value
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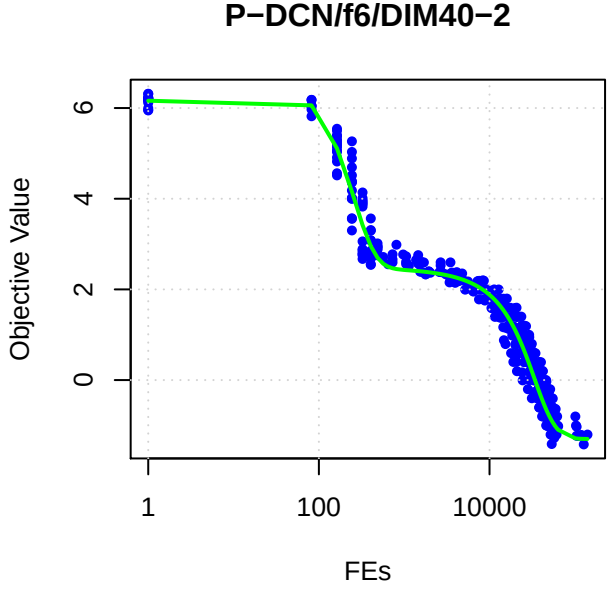
10000
FEs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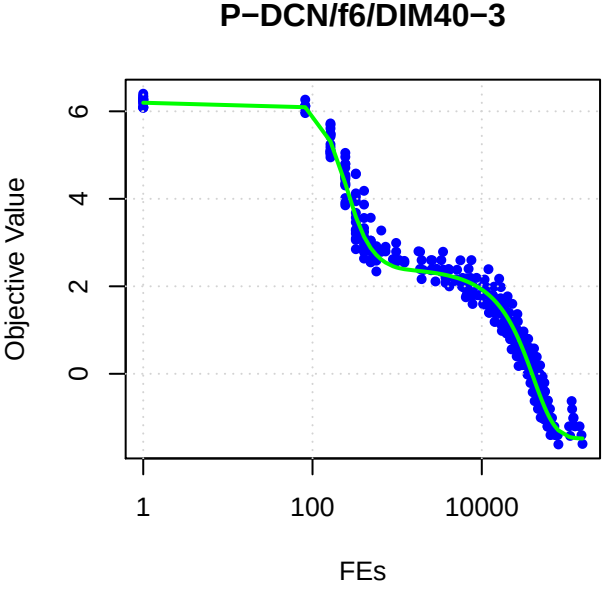
FEs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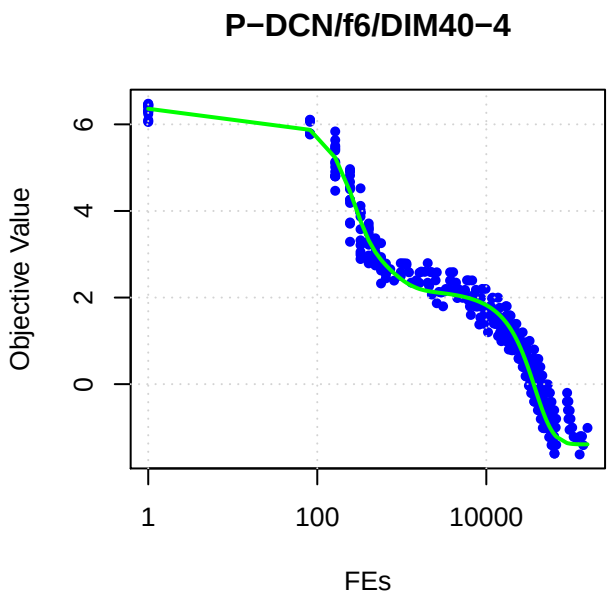
FEs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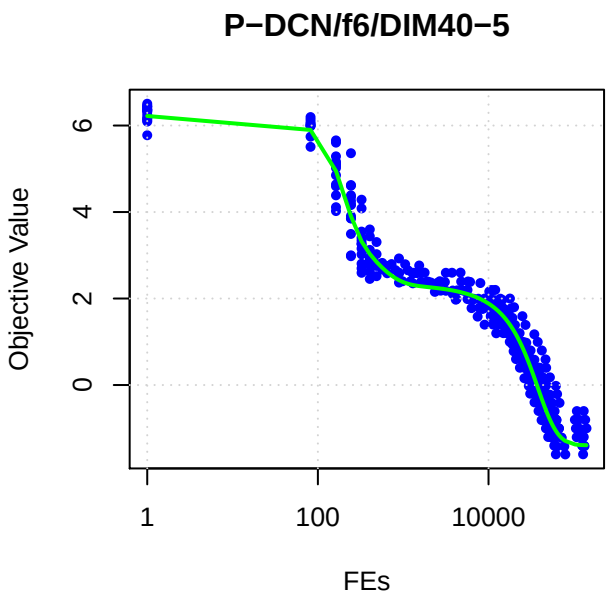
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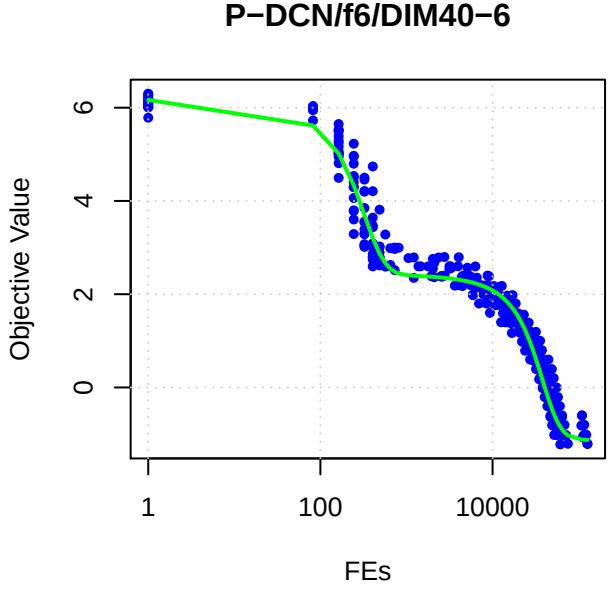
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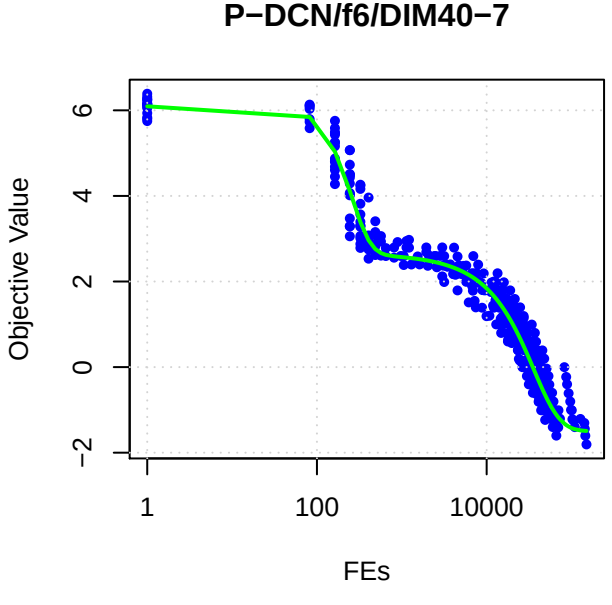
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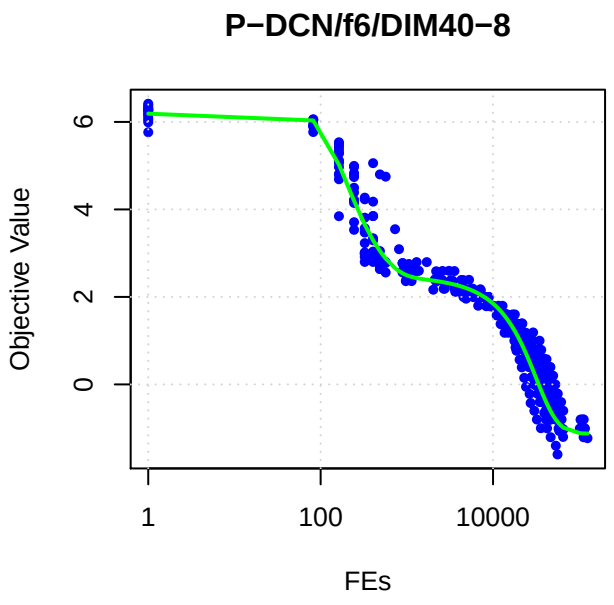
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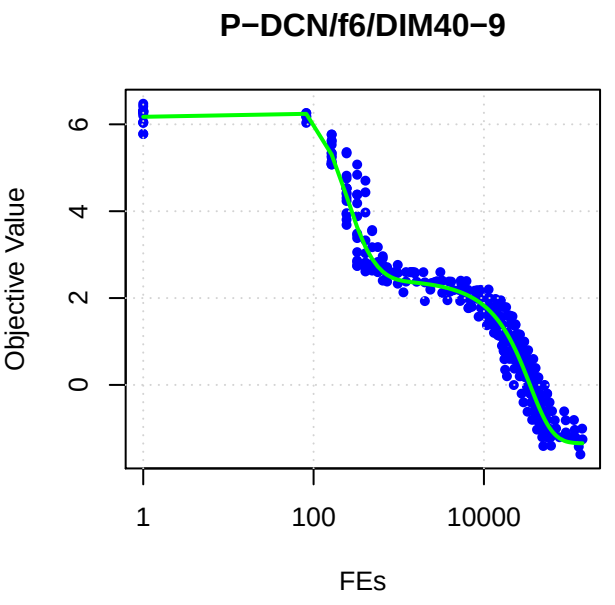
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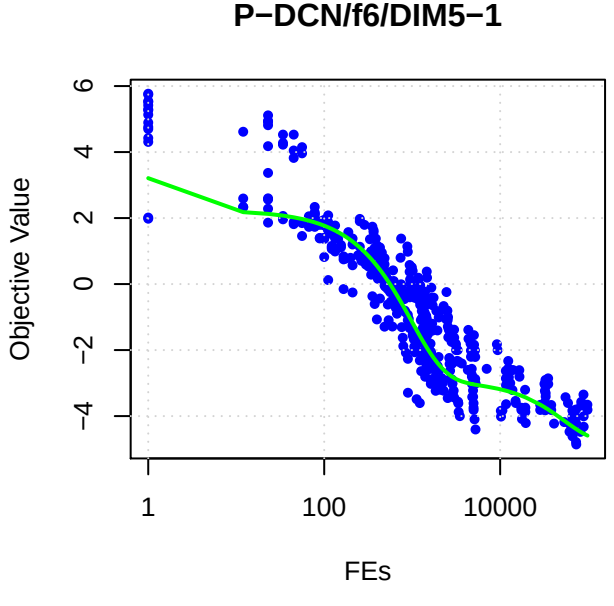
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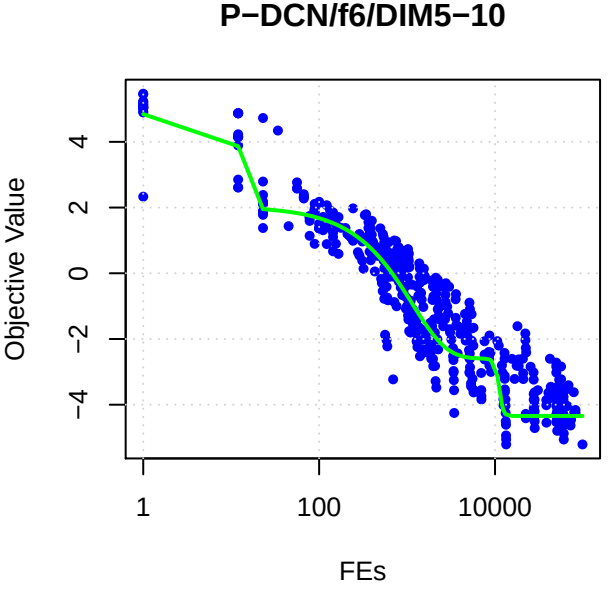
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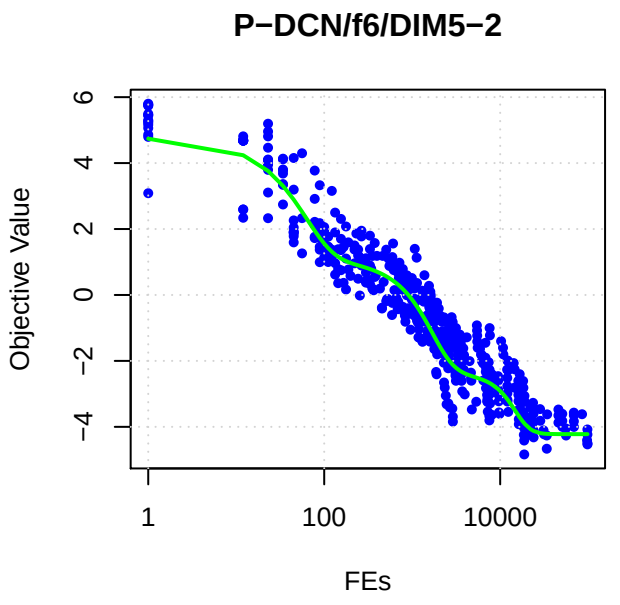
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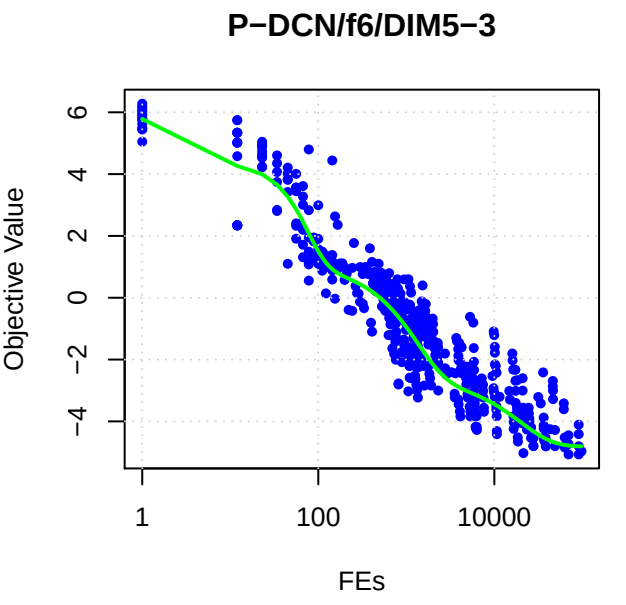
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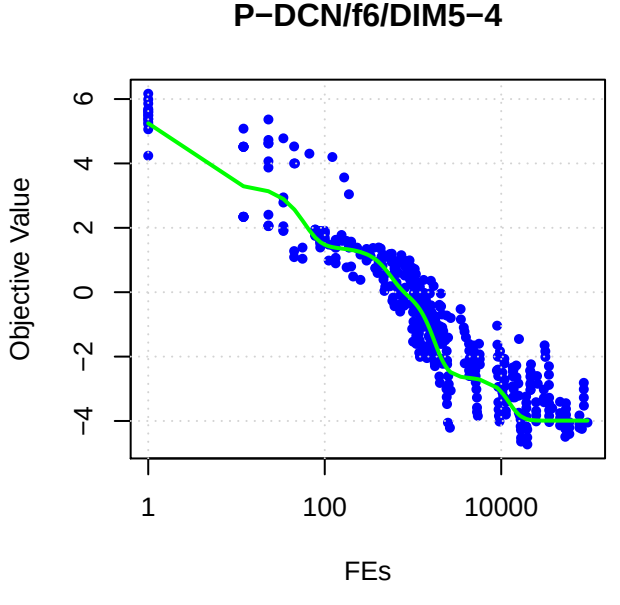
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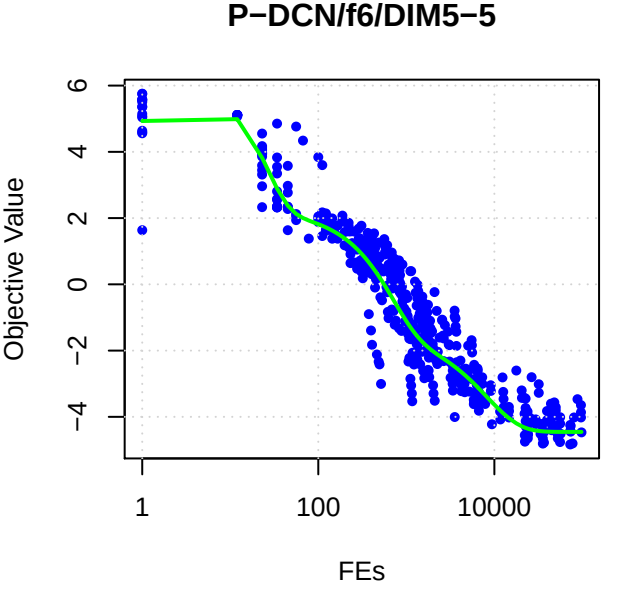
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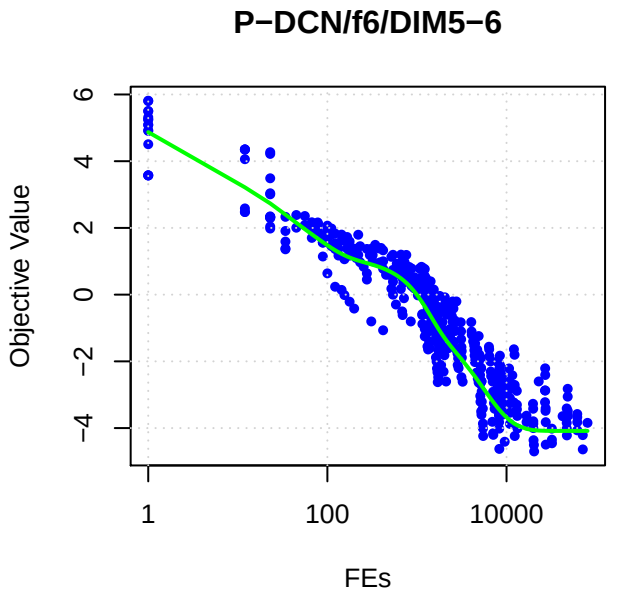
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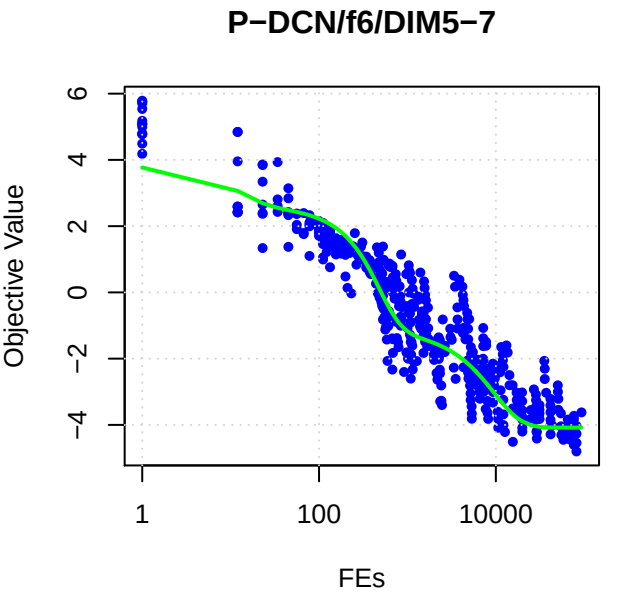
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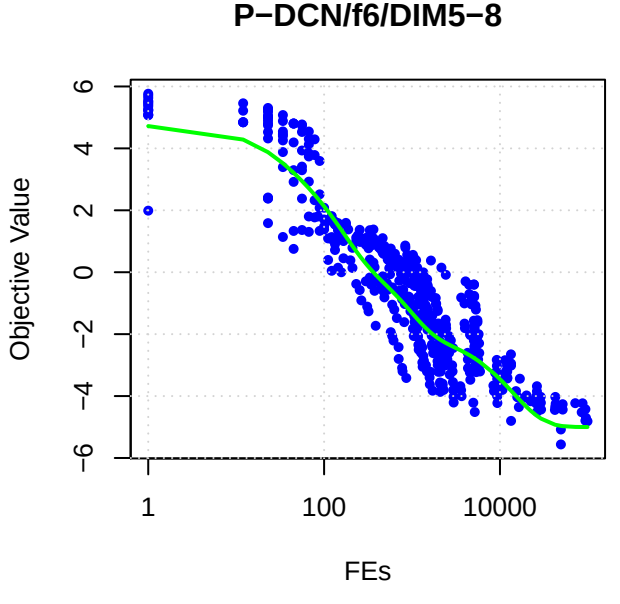
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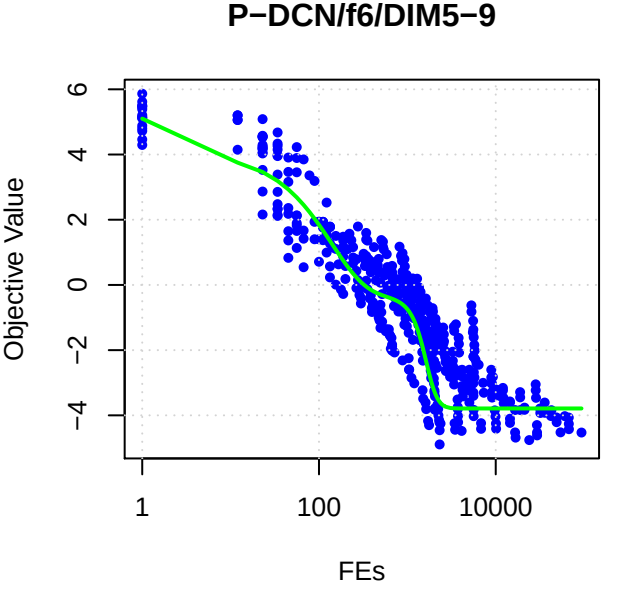
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FEs
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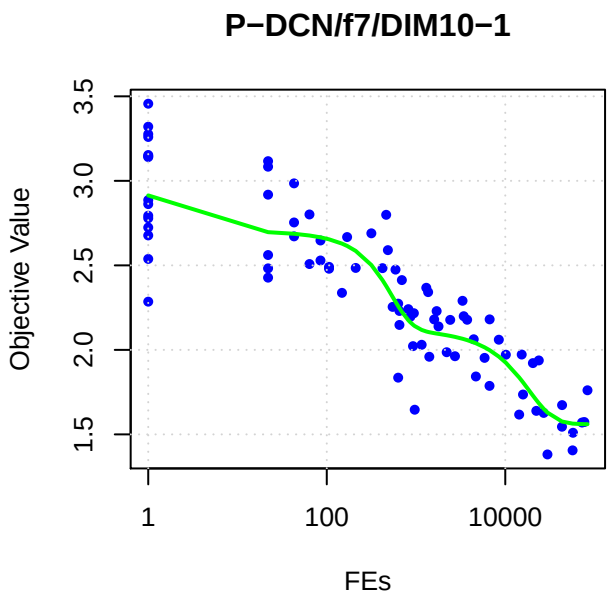
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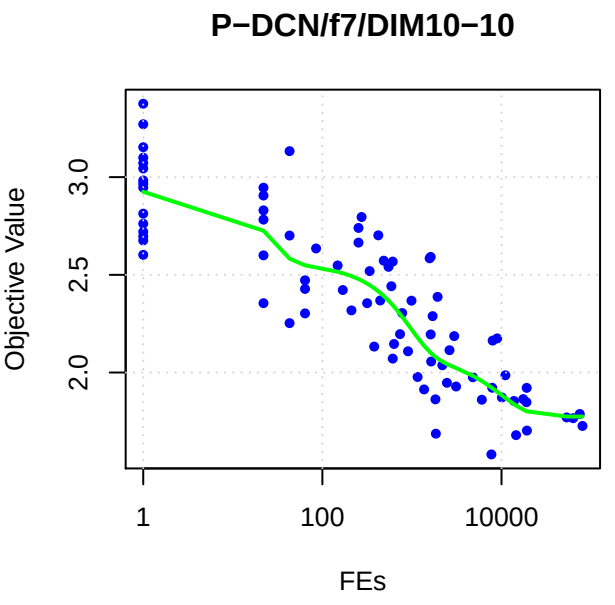
FEs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Objective Value
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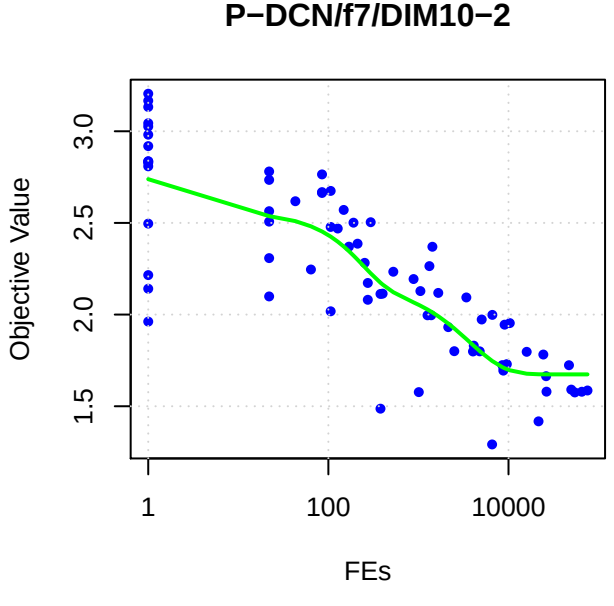
FEs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2.0
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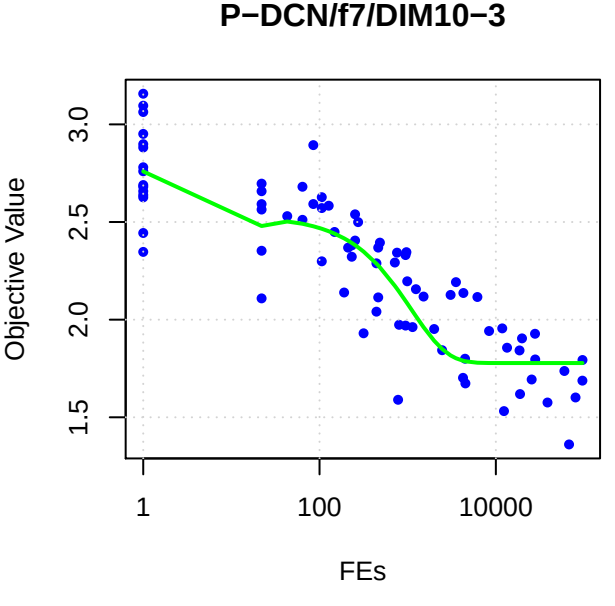
P−DCN/f7/DIM10−3
Objective Value
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1.5
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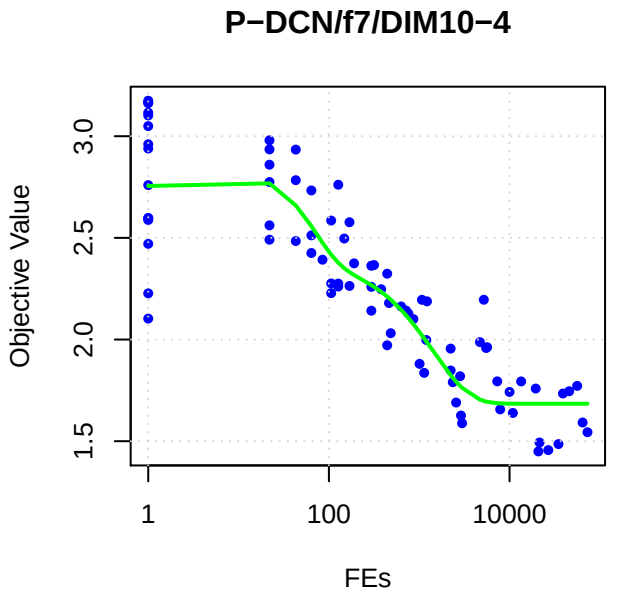
P−DCN/f7/DIM10−4
Objective Value
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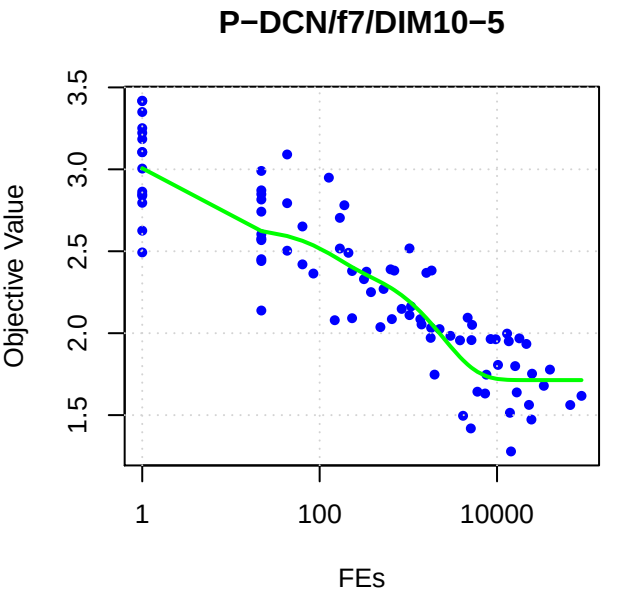
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Objective Value
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2.0
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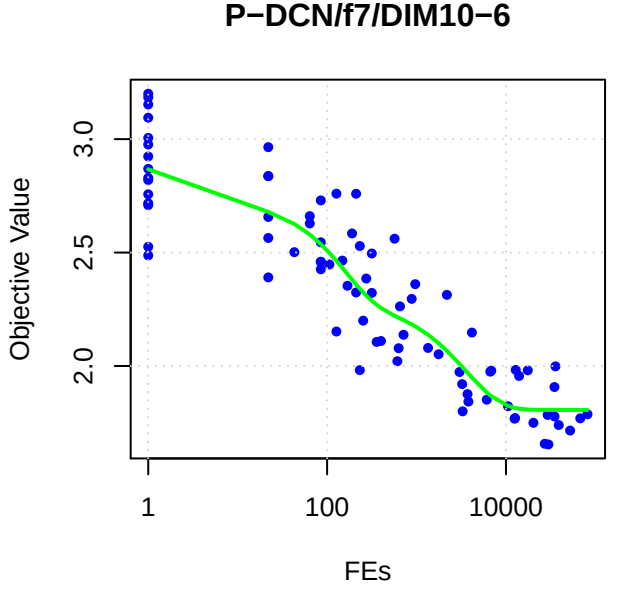
10000
FEs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Objective Value
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2.5
2.0
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100
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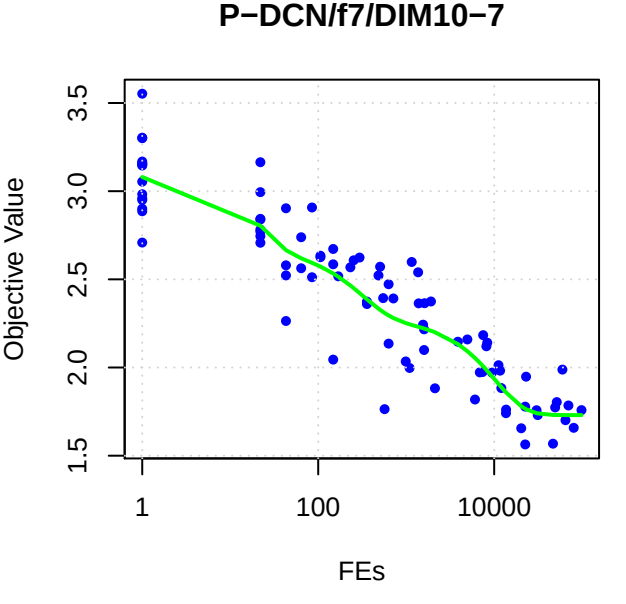
FEs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Objective Value
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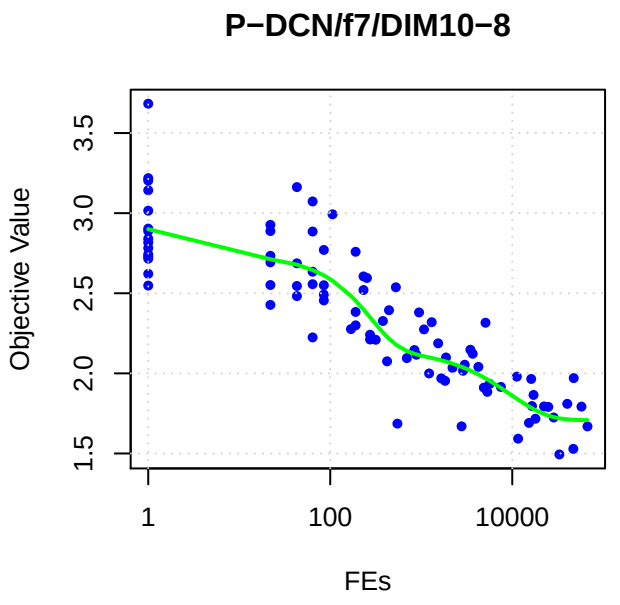
3.0
2.5
2.0
1.5
1
100
10000
FEs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Objective Value
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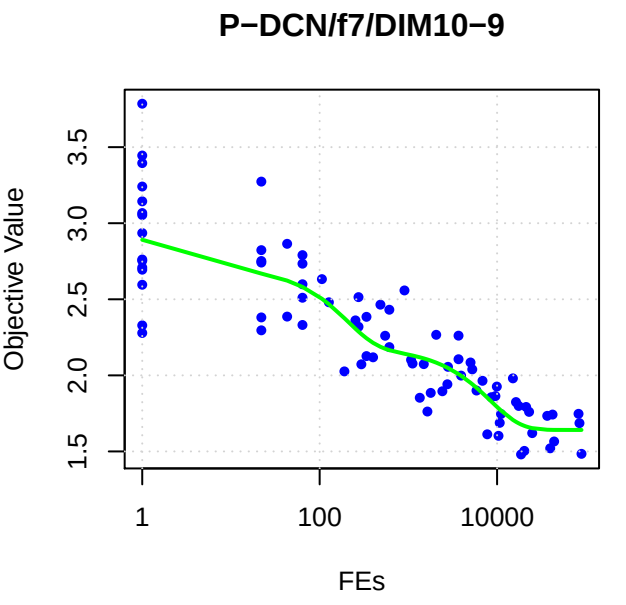
2.0
1.5
1
100
10000
FEs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Objective Value
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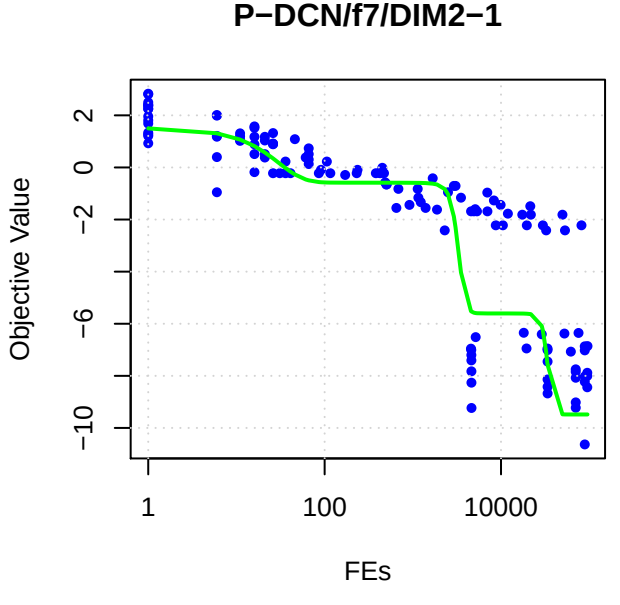
2.5
2.0
1.5
1
100
10000
FEs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Objective Value
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−2
−6
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1
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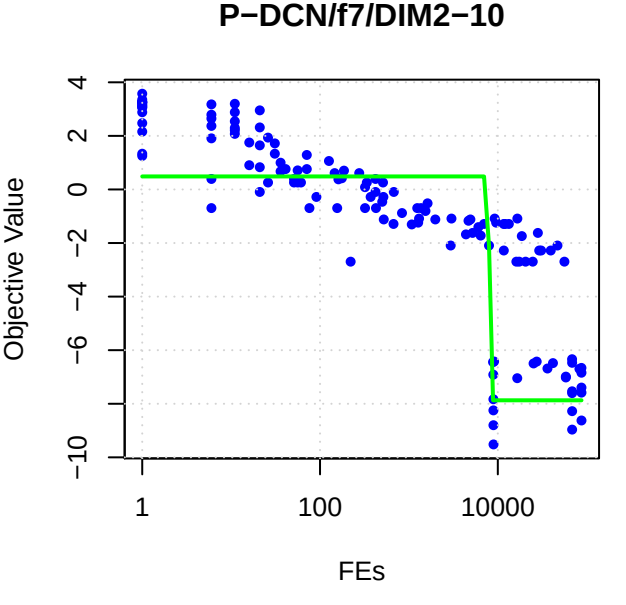
10000
FEs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Objective Value
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−6
−10
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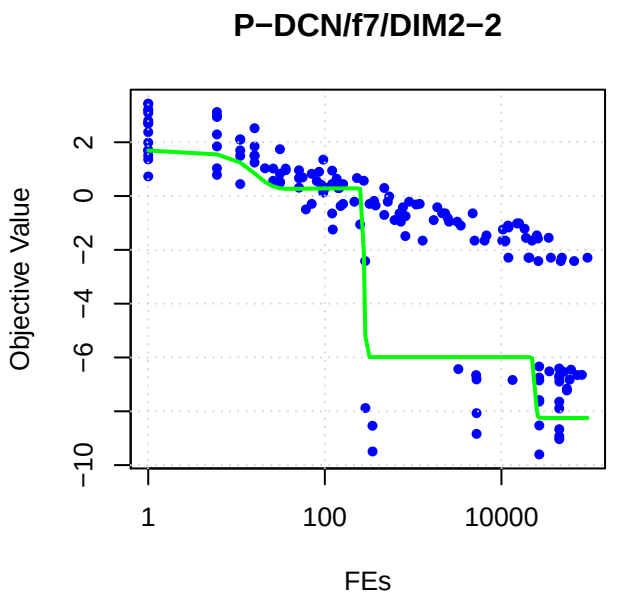
10000
FEs


P−DCN/f7/DIM2−2
Objective Value
FEs
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−2
−4
−6
−10
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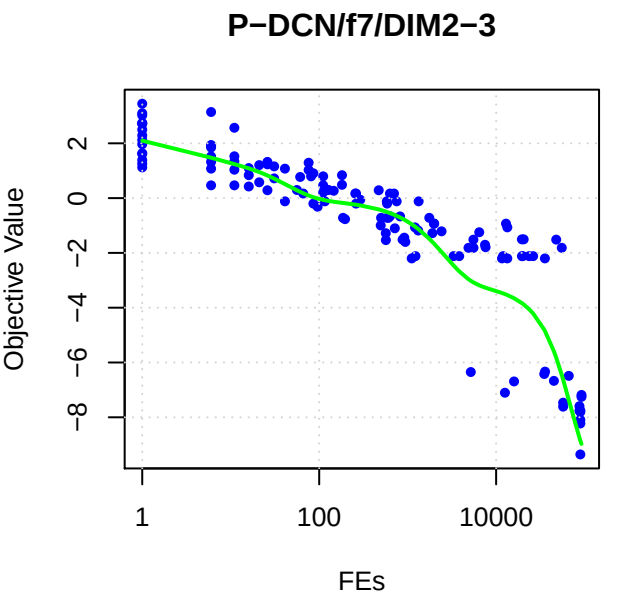
P−DCN/f7/DIM2−3
Objective Value
FEs
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−2
−4
−6
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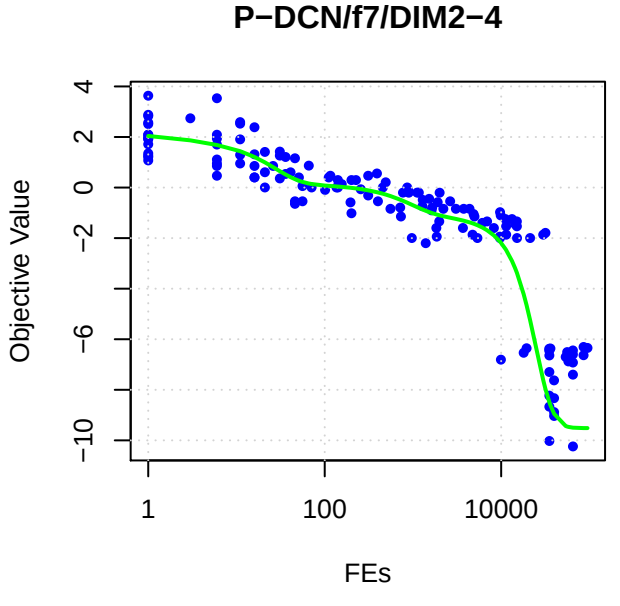
100
10000


P−DCN/f7/DIM2−4
Objective Value
FEs
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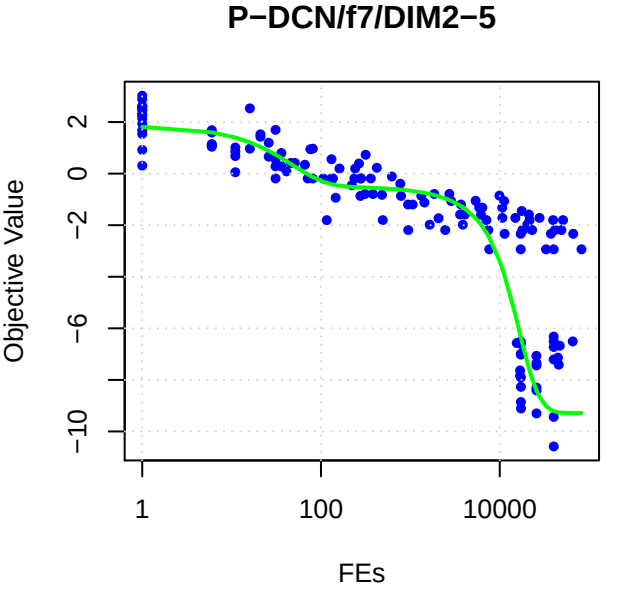
2
0
−2
−6
−10
1
100
10000


P−DCN/f7/DIM2−5
Objective Value
FEs
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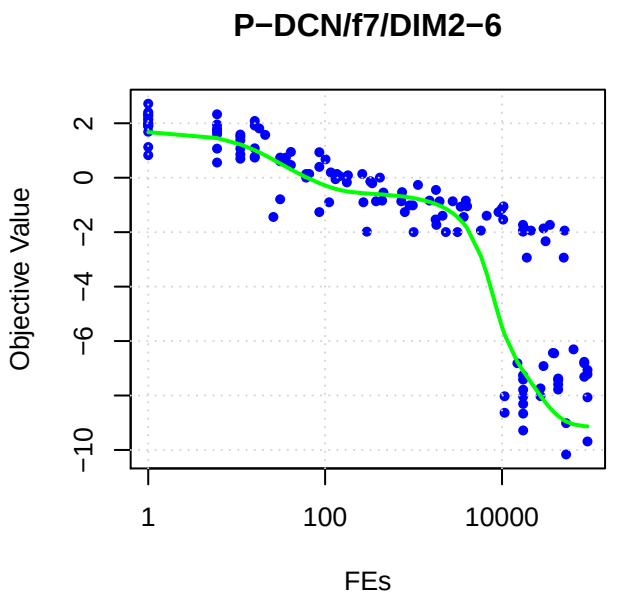
−2
−6
−10
1
100
10000


P−DCN/f7/DIM2−6
Objective Value
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0
−2
−4
−6
−10
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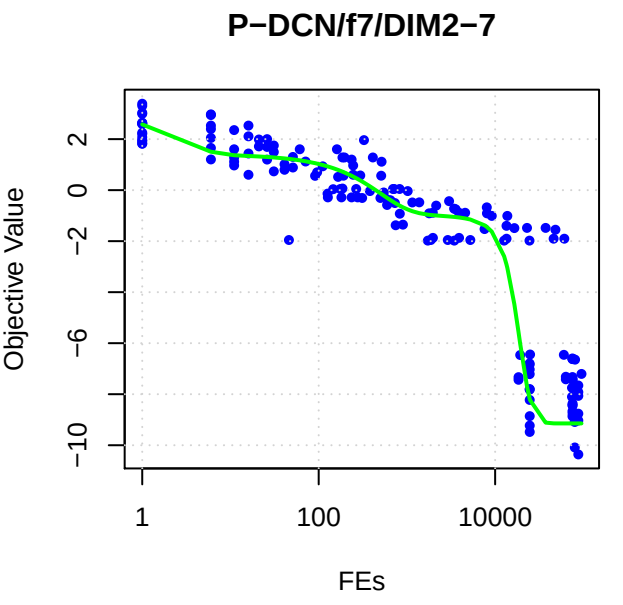
100
10000
FEs


P−DCN/f7/DIM2−7
Objective Value
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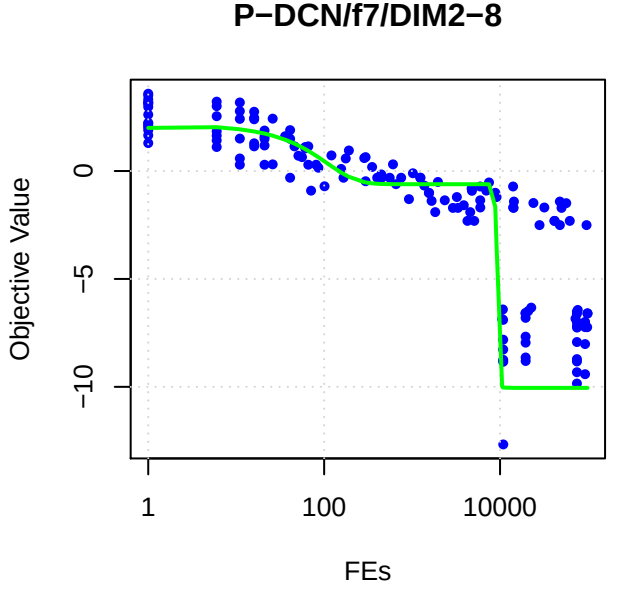
−2
−6
−10
1
100
10000
FEs


P−DCN/f7/DIM2−8
Objective Value
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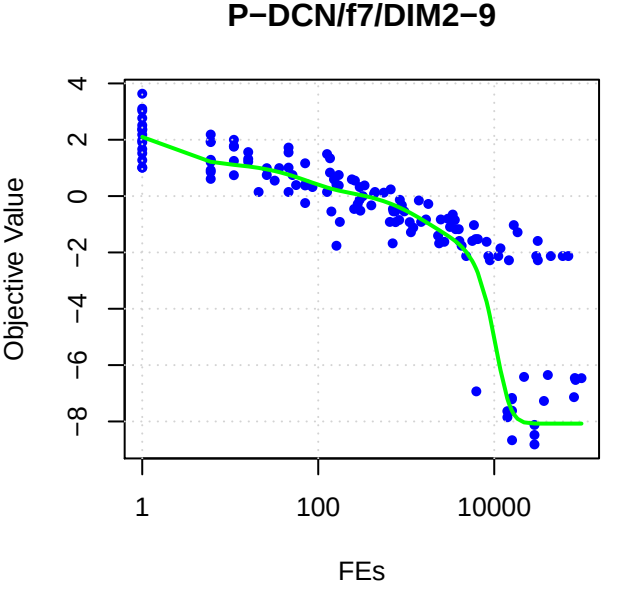
−10
1
100
10000
FEs


P−DCN/f7/DIM2−9
Objective Value
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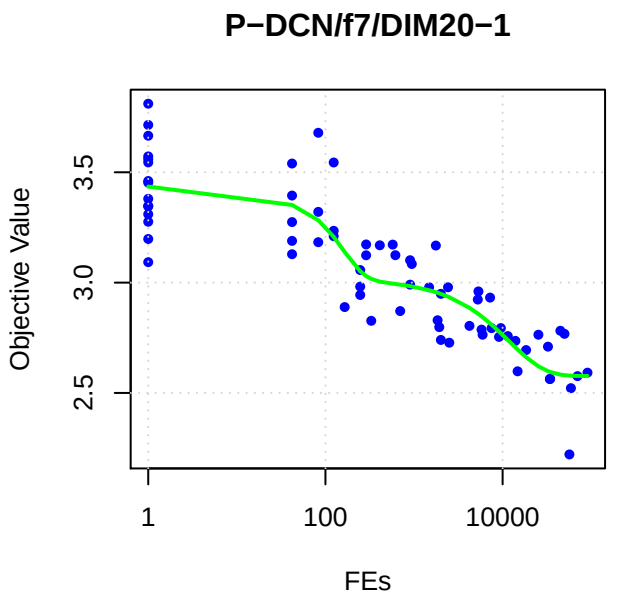
2
0
−2
−4
−6
−8
1
100
10000
FEs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Objective Value
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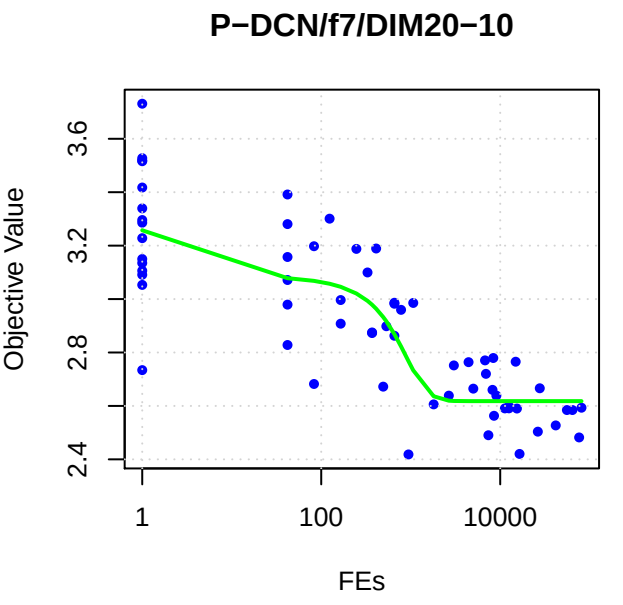
3.0
2.5
1
100
10000
FEs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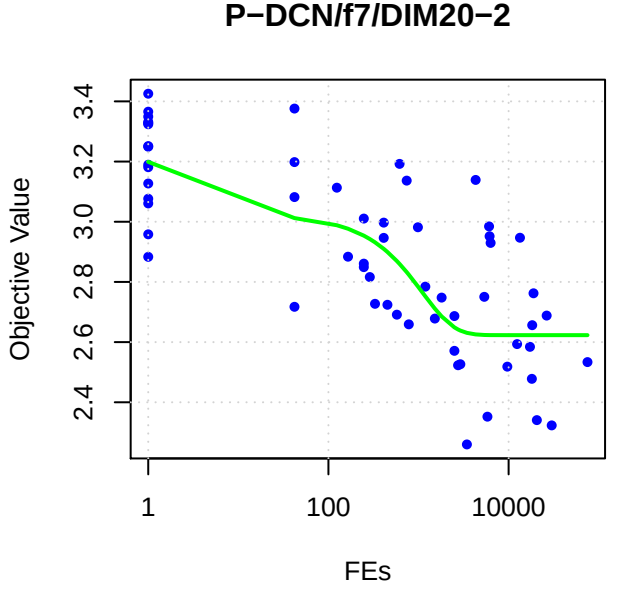
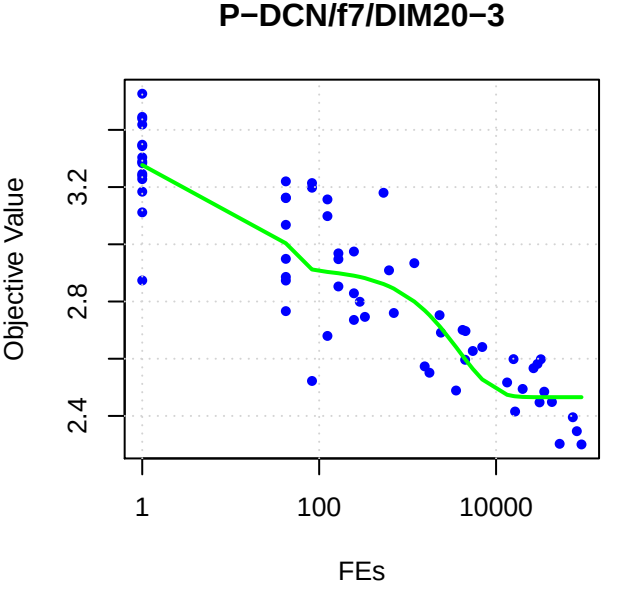
Objective Value
3.6
3.2
2.8
2.4
1
100
10000
FEs


P−DCN/f7/DIM20−2
Objective Value
3.4
3.2
3.0
2.8
2.6
2.4
1
100
10000
FEs


P−DCN/f7/DIM20−3
Objective Value
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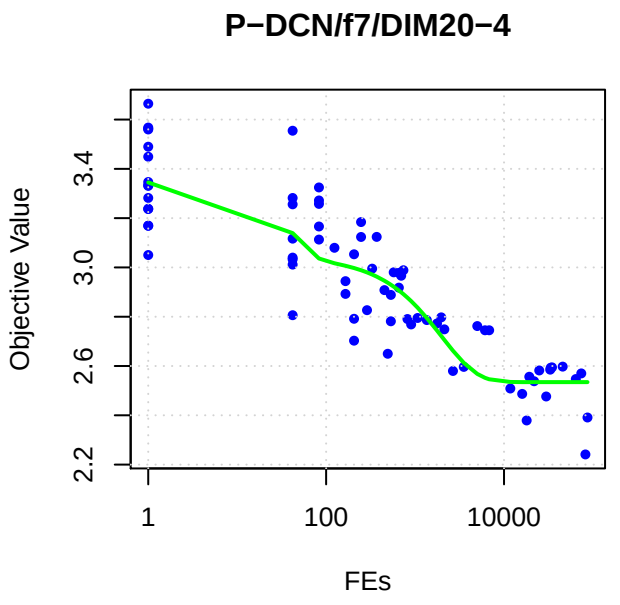
2.8
2.4
1
100
10000
FEs


P−DCN/f7/DIM20−4
Objective Value
2.2
2.6
3.0
3.4
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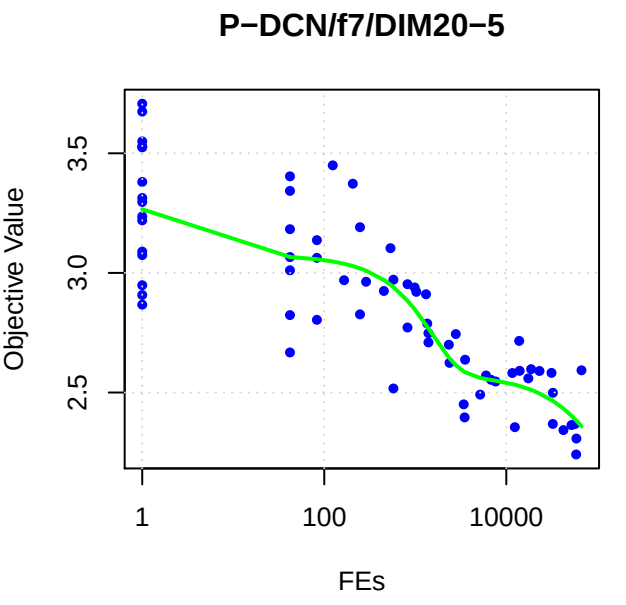
100
10000
FEs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Objective Value
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3.0
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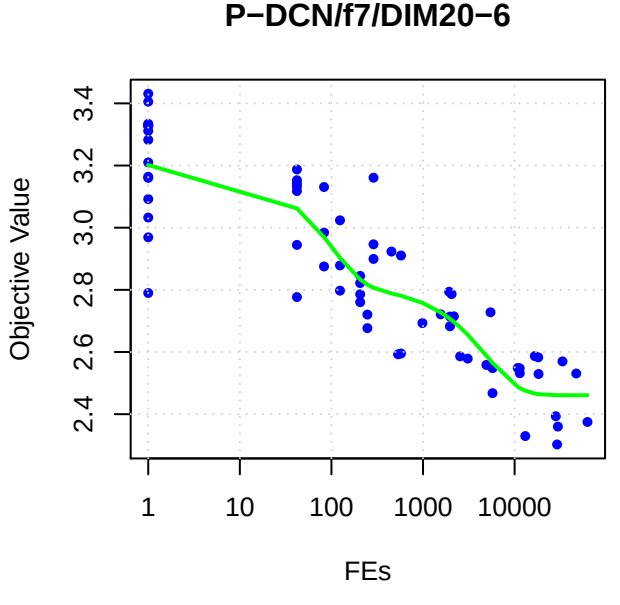
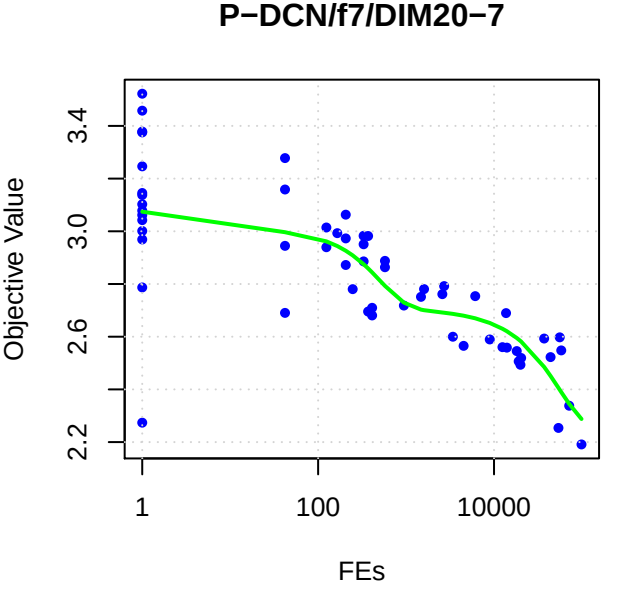
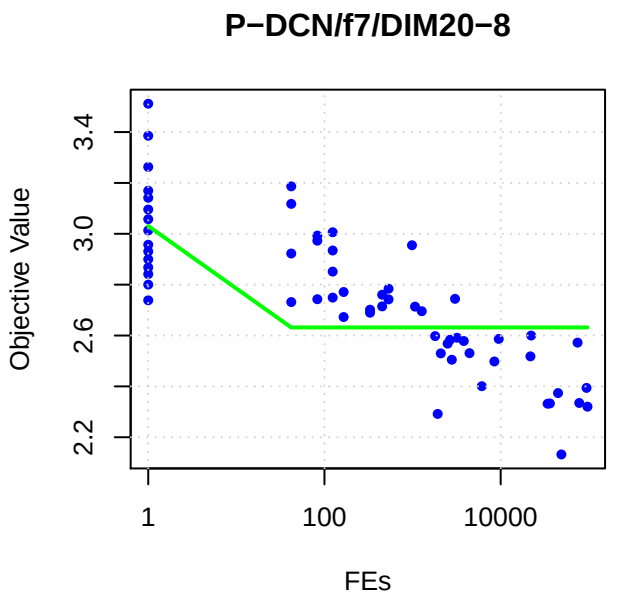
1
100
10000
FEs


P−DCN/f7/DIM20−6
Objective Value
2.4
2.6
2.8
3.0
3.2
3.4
1
10
100
1000
10000
FEs


P−DCN/f7/DIM20−7
Objective Value
2.2
2.6
3.0
3.4
1
100
10000
FEs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Objective Value
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2.6
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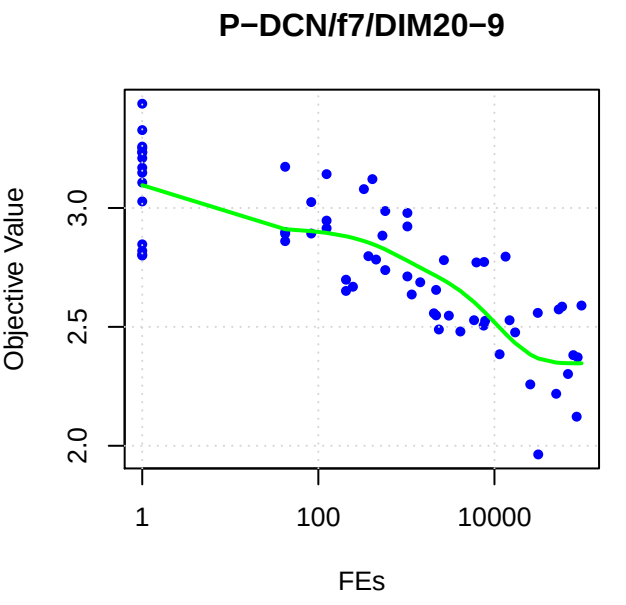
10000
FEs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Objective Value
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10000
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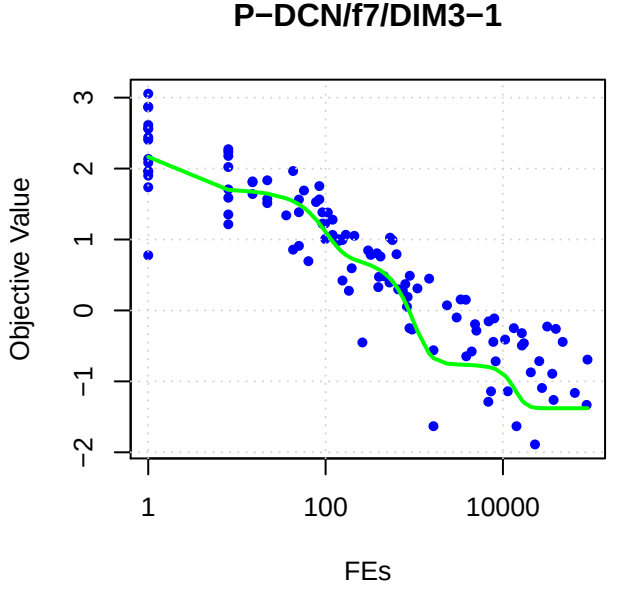
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Objective Value
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0
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−2
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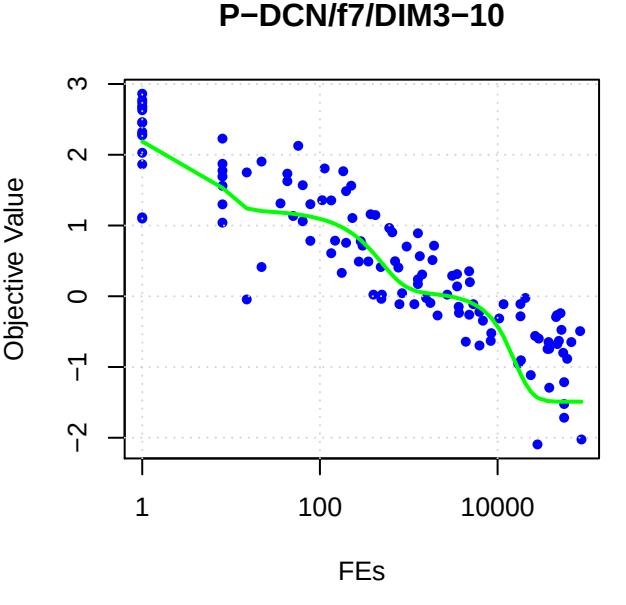
10000
FEs


P−DCN/f7/DIM3−10
Objective Value
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0
−1
−2
1
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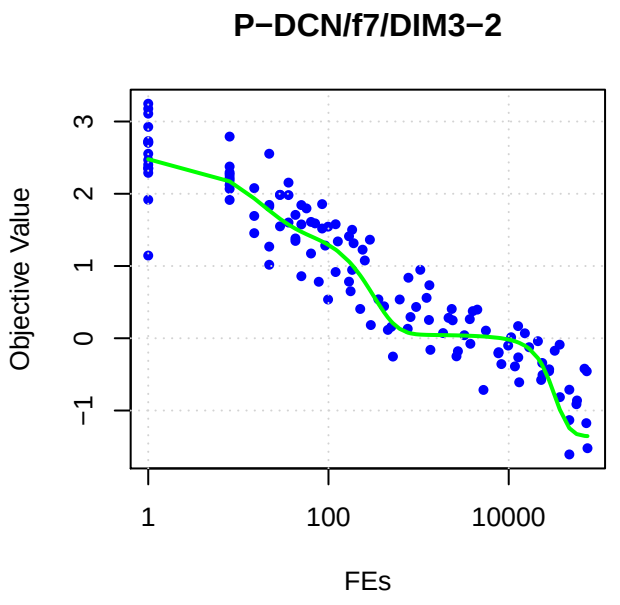
10000
FEs


P−DCN/f7/DIM3−2
Objective Value
FEs
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2
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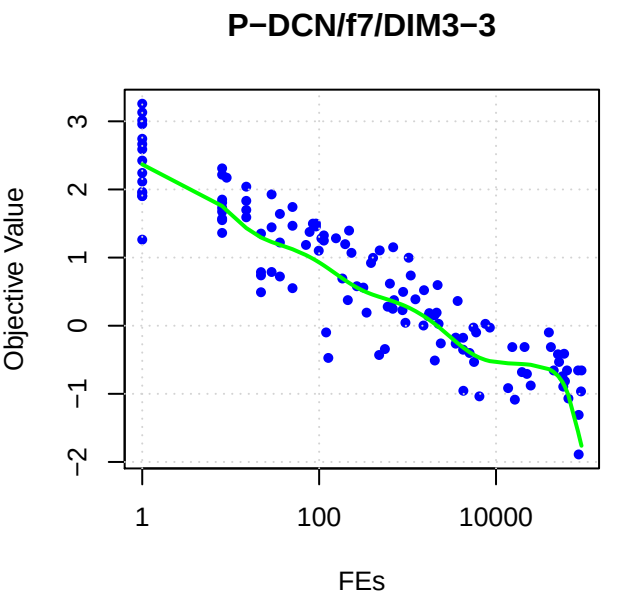
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Objective Value
FEs
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2
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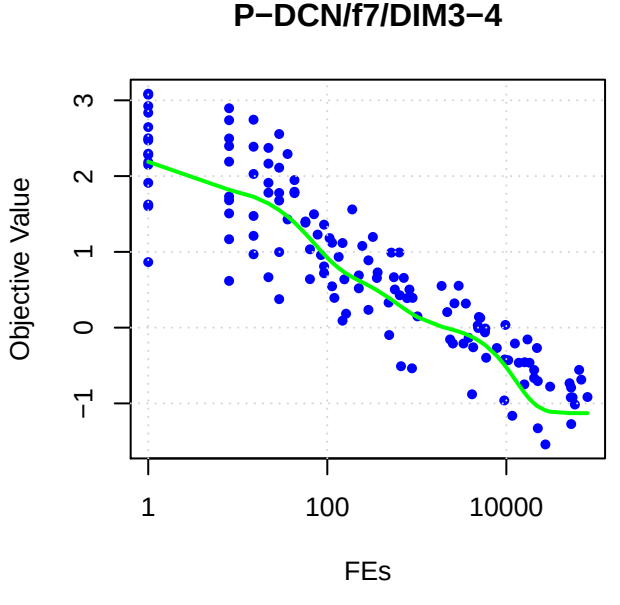
P−DCN/f7/DIM3−4
Objective Value
FEs
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2
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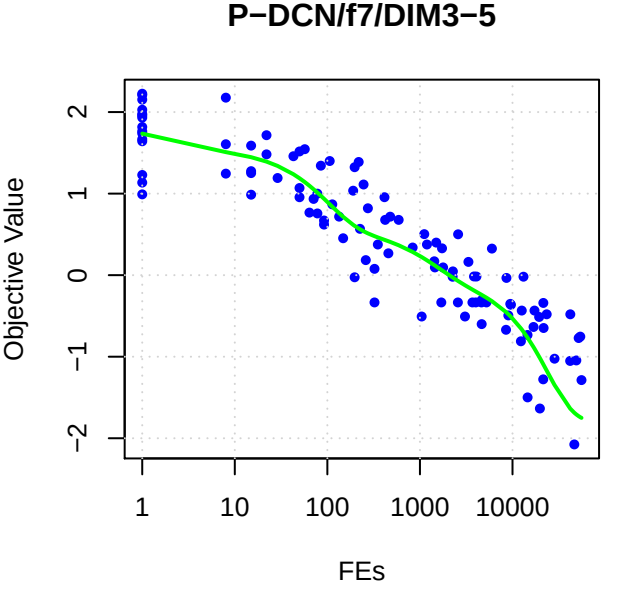
P−DCN/f7/DIM3−5
Objective Value
FEs
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10000
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−1
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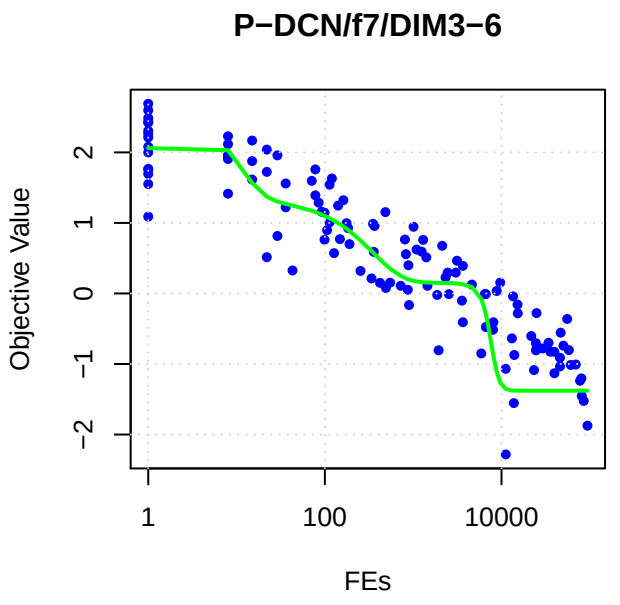
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Objective Value
FEs
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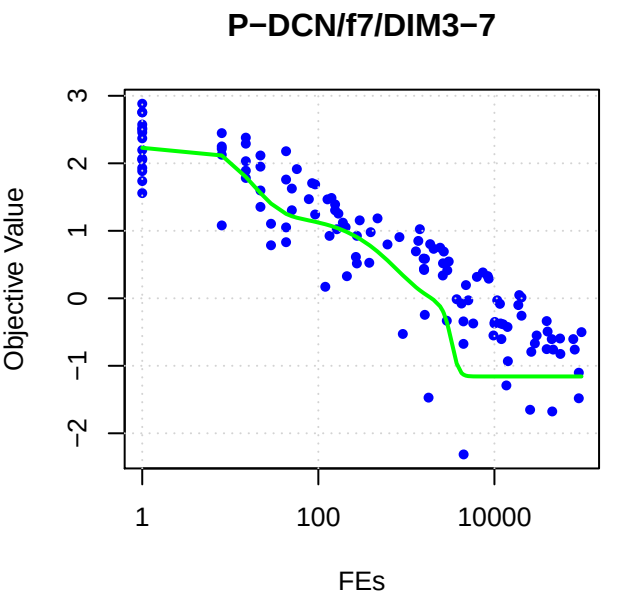
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Objective Value
FEs
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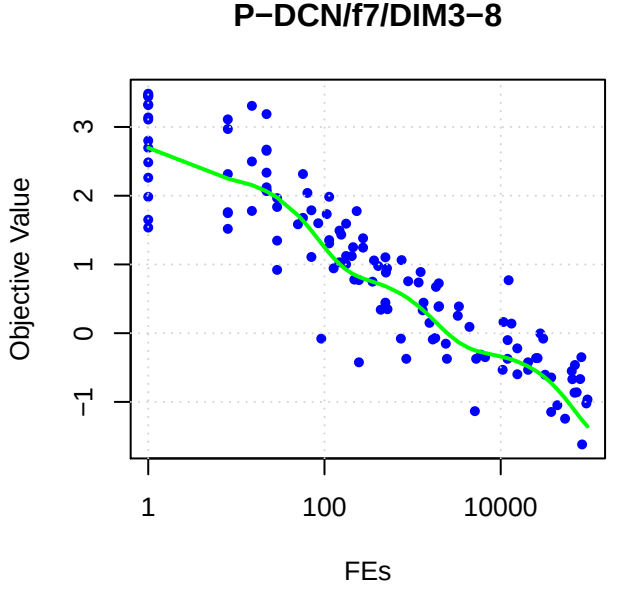
P−DCN/f7/DIM3−8
Objective Value
FEs
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−1
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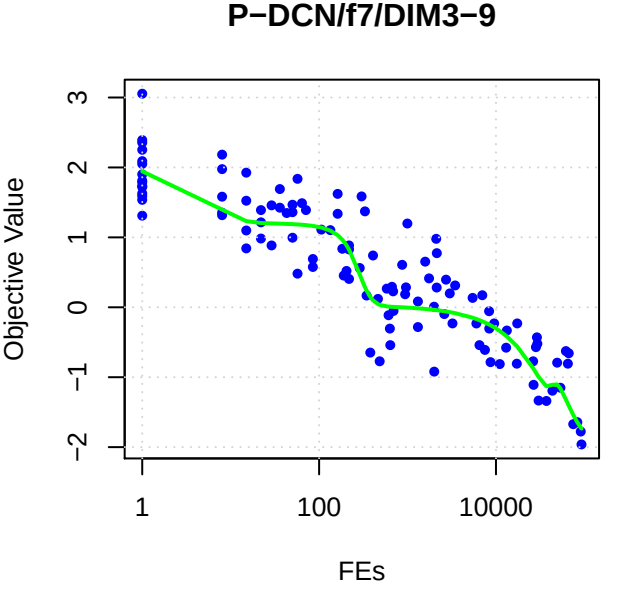
P−DCN/f7/DIM3−9
Objective Value
FEs
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10000
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−1
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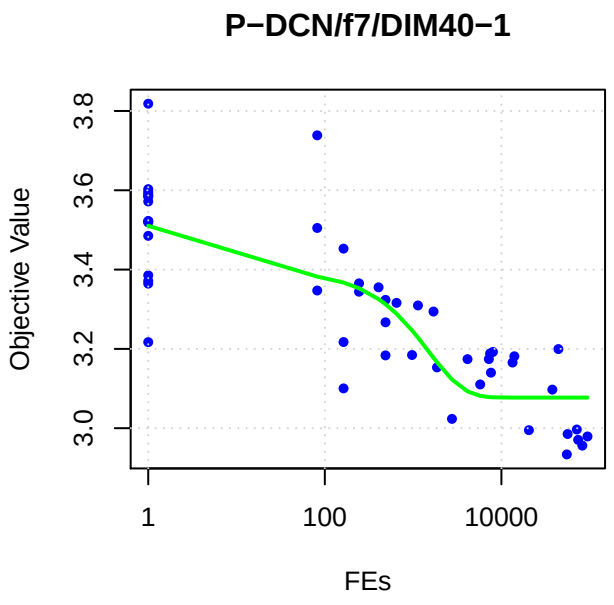
2
3


P−DCN/f7/DIM40−1
Objective Value
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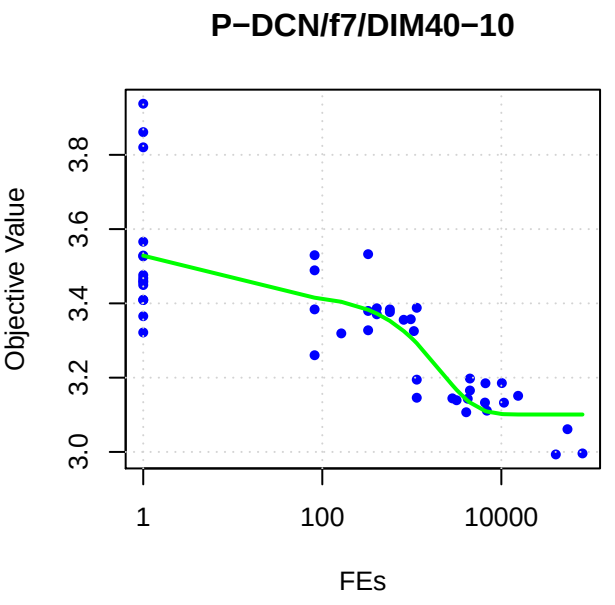
3.2
3.4
3.6
3.8
1
100
10000
FEs


P−DCN/f7/DIM40−10
Objective Value
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3.2
3.4
3.6
3.8
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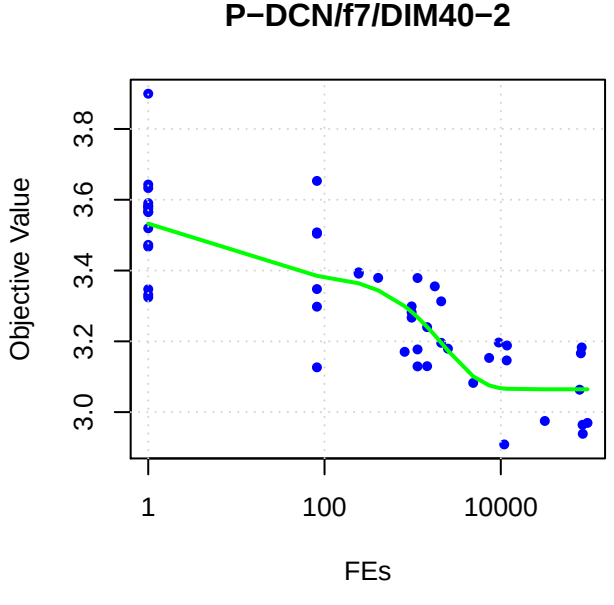
10000
FEs


P−DCN/f7/DIM40−2
Objective Value
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3.2
3.4
3.6
3.8
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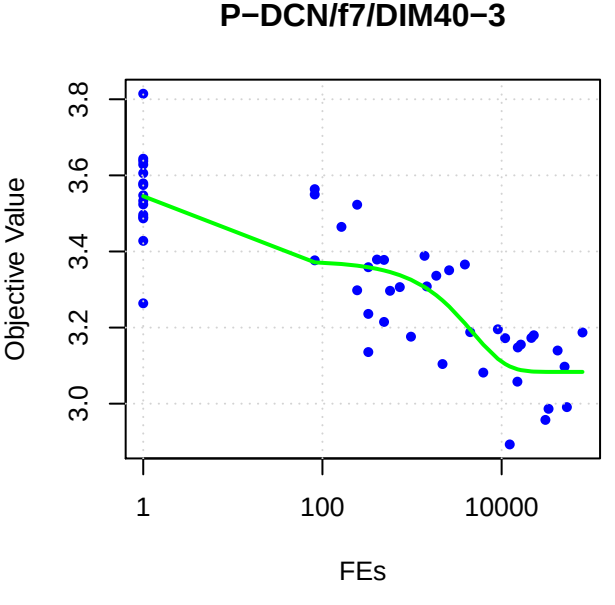
10000
FEs


P−DCN/f7/DIM40−3
Objective Value
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3.4
3.6
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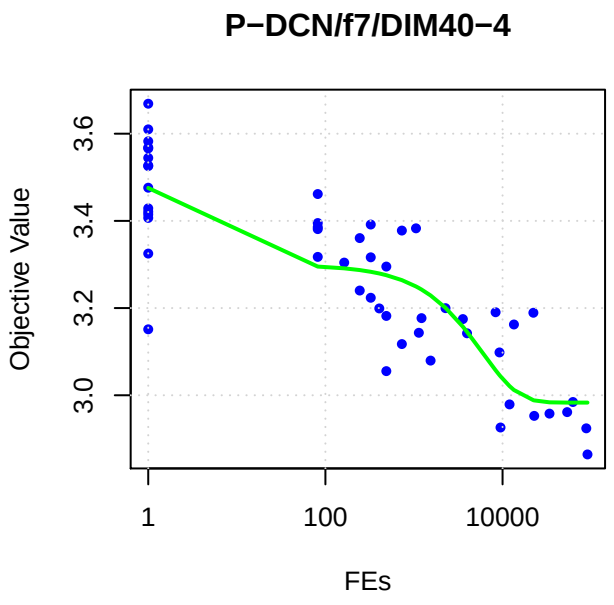
10000
FEs


P−DCN/f7/DIM40−4
Objective Value
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3.2
3.4
3.6
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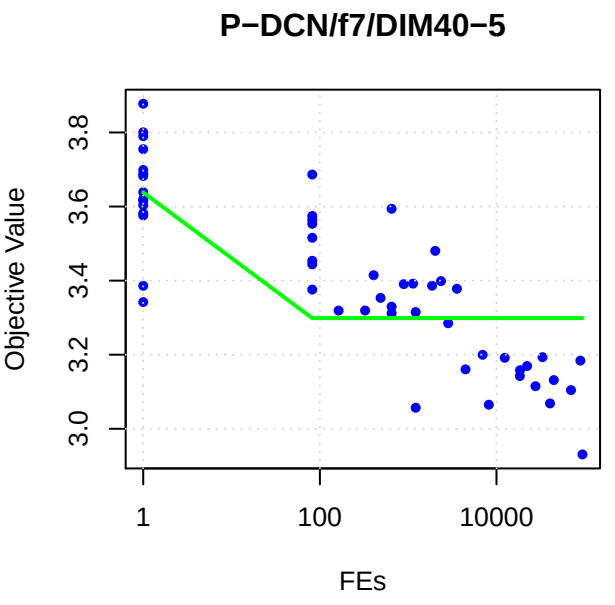
100
10000
FEs


P−DCN/f7/DIM40−5
Objective Value
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3.2
3.4
3.6
3.8
1
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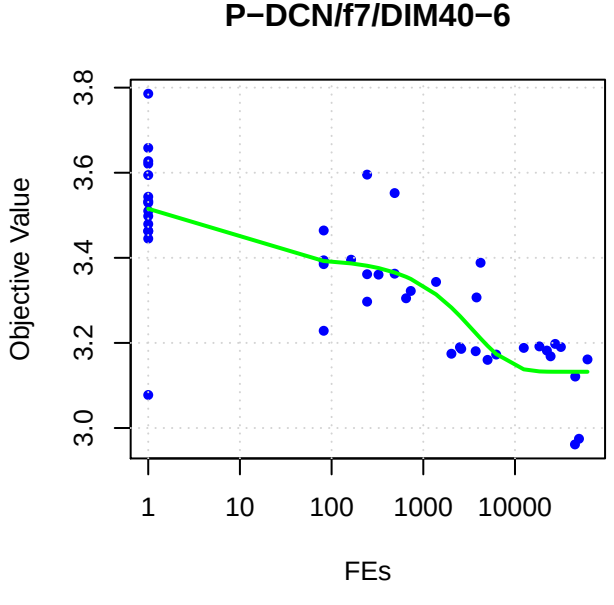
P−DCN/f7/DIM40−6
Objective Value
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3.4
3.6
3.8
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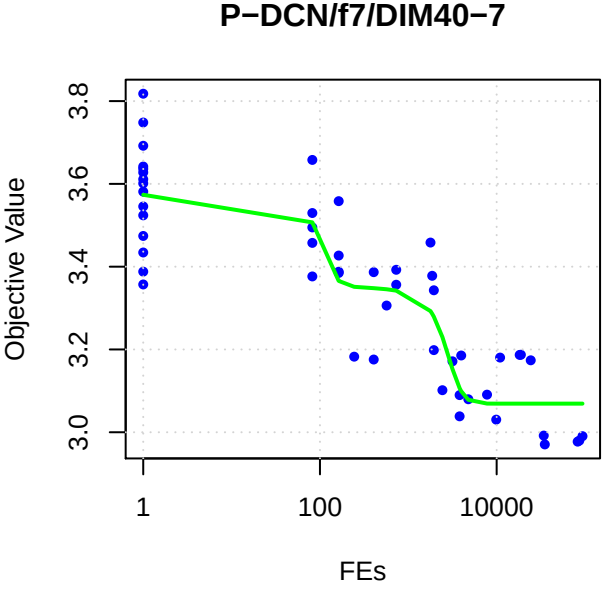
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Objective Value
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3.4
3.6
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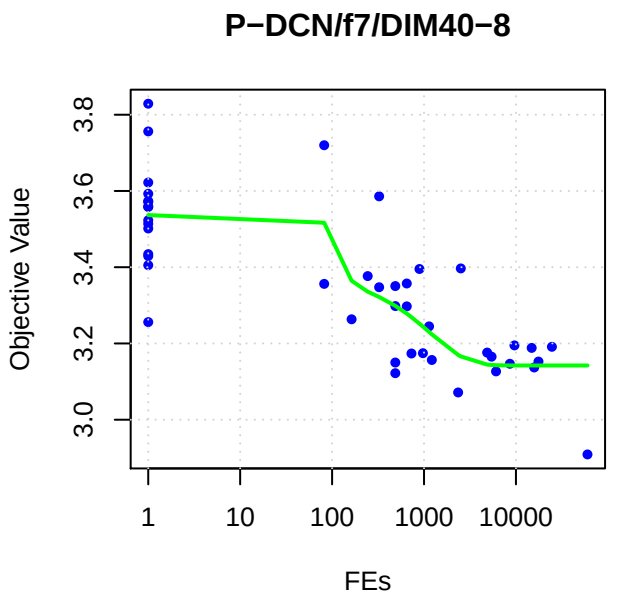
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Objective Value
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3.6
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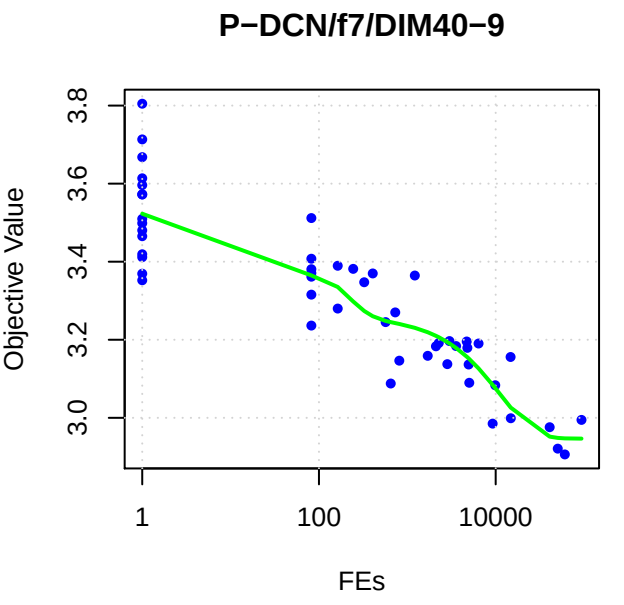
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3.6
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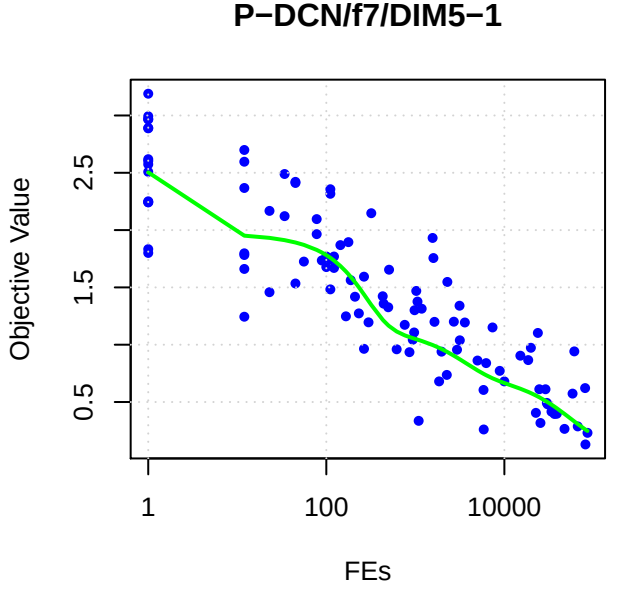
FEs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Objective Value
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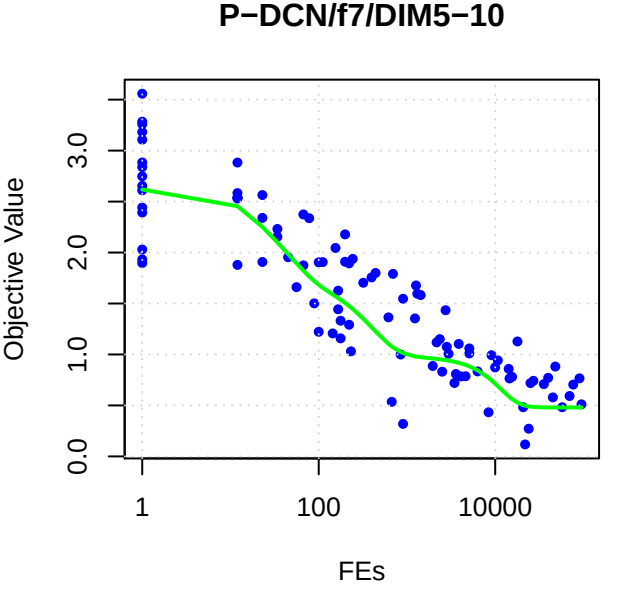
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Objective Value
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2.0
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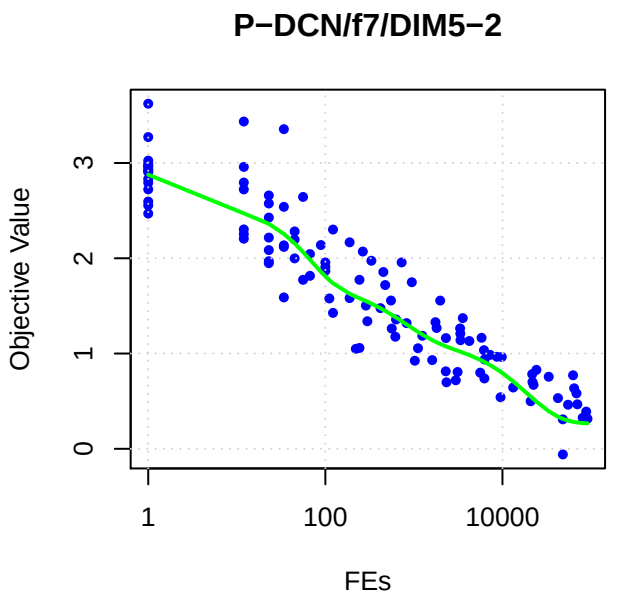
FEs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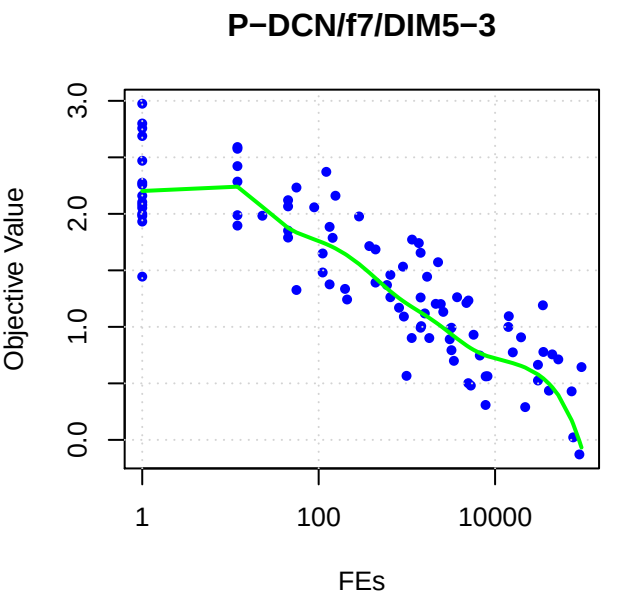
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Objective Value
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2.0
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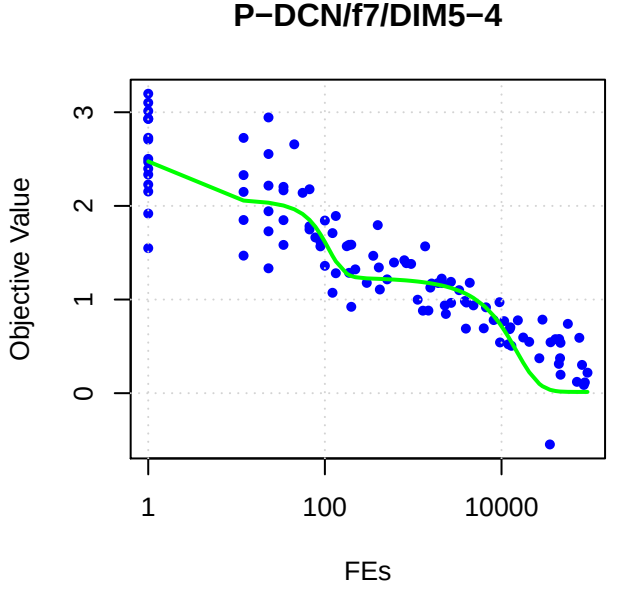
FEs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Objective Value
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3
1
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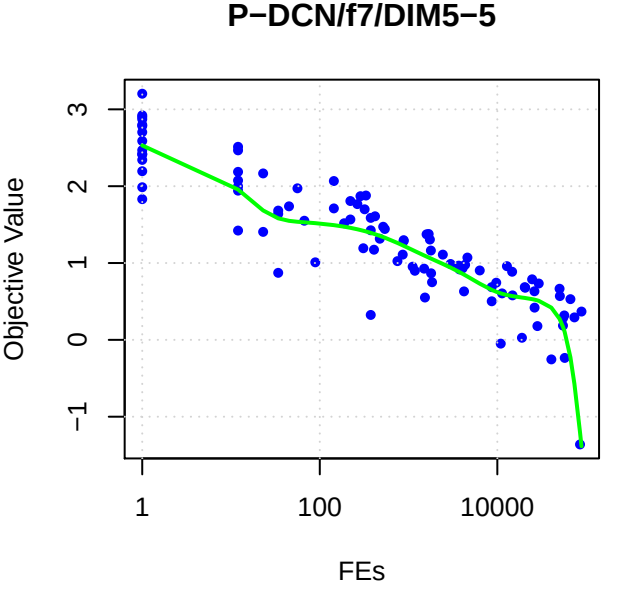
10000
FEs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Objective Value
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2
3
1
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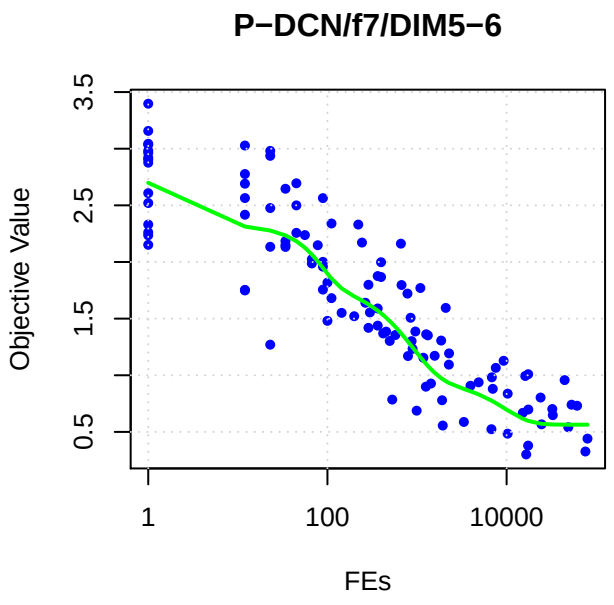
FEs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Objective Value
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1.5
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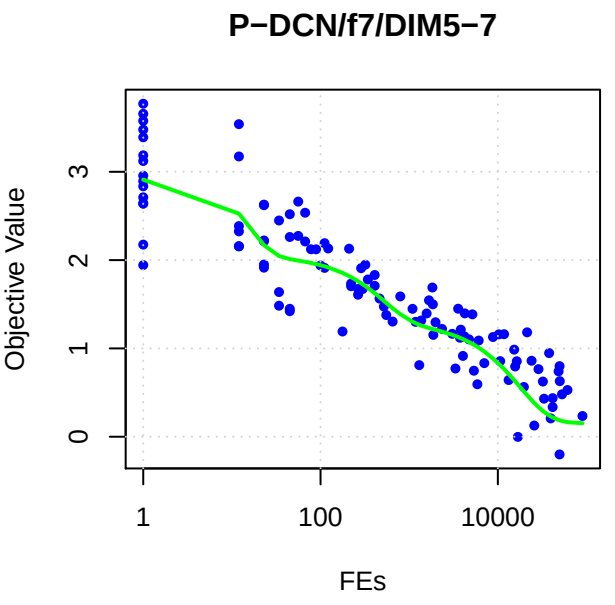
FEs


P−DCN/f7/DIM5−7
Objective Value
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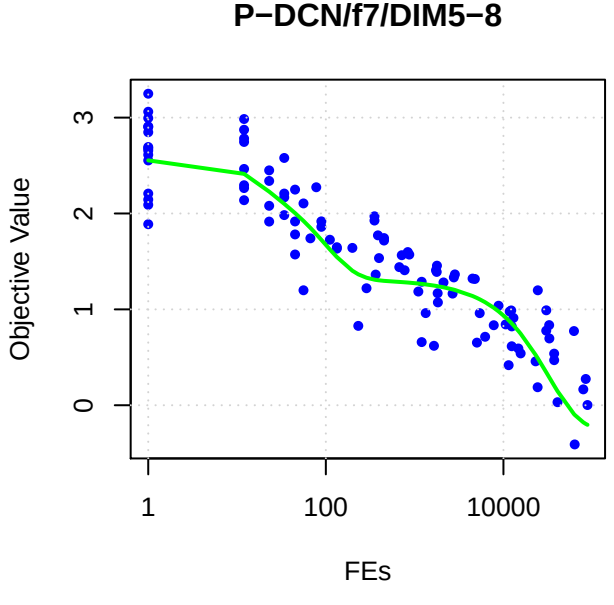
0
1
100
10000
FEs


P−DCN/f7/DIM5−8
Objective Value
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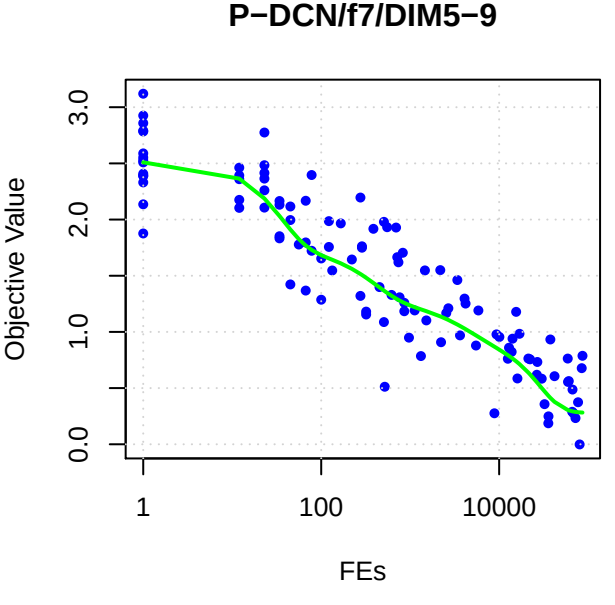
0
1
100
10000
FEs


P−DCN/f7/DIM5−9
Objective Value
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1.0
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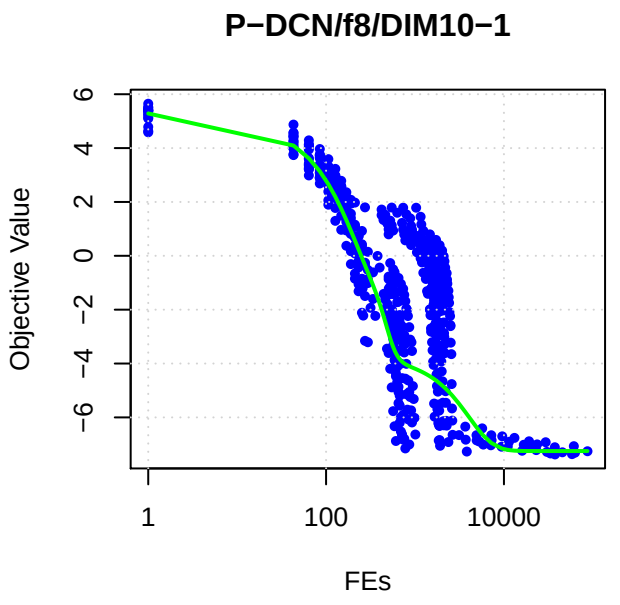
FEs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Objective Value
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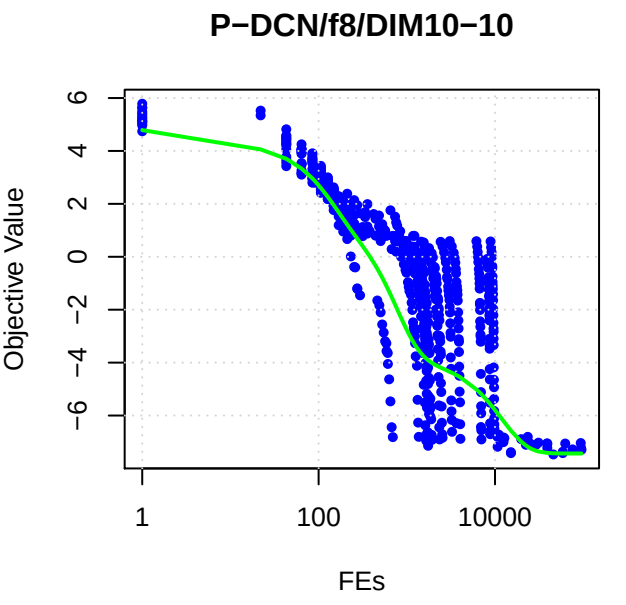
FEs


P−DCN/f8/DIM10−10
Objective Value
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−2
−4
−6
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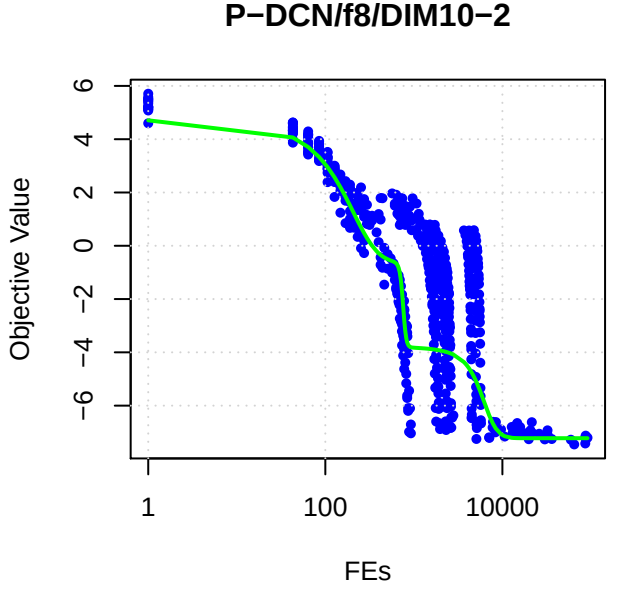
100
10000
FEs


P−DCN/f8/DIM10−2
Objective Value
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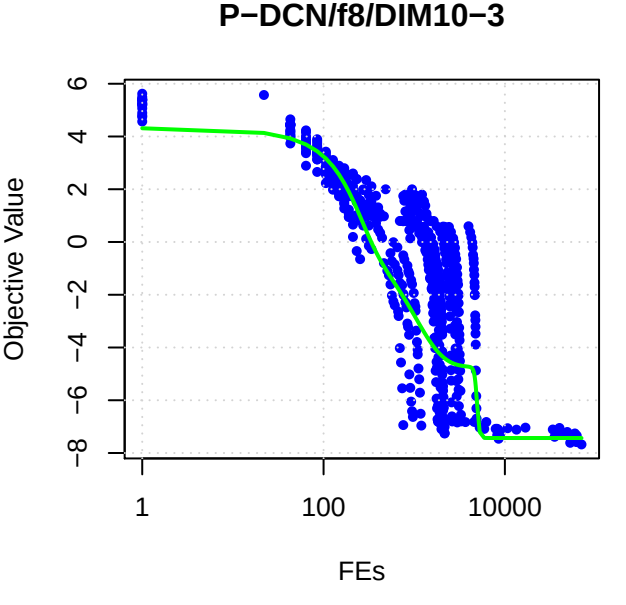
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Objective Value
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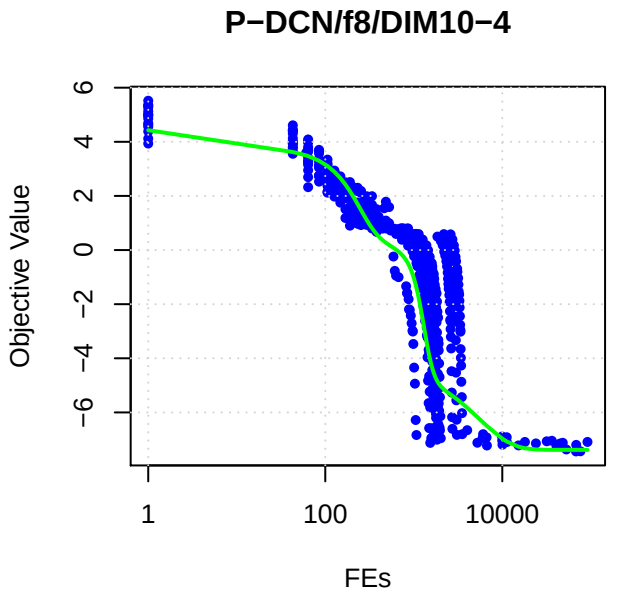
100
10000
FEs


P−DCN/f8/DIM10−4
Objective Value
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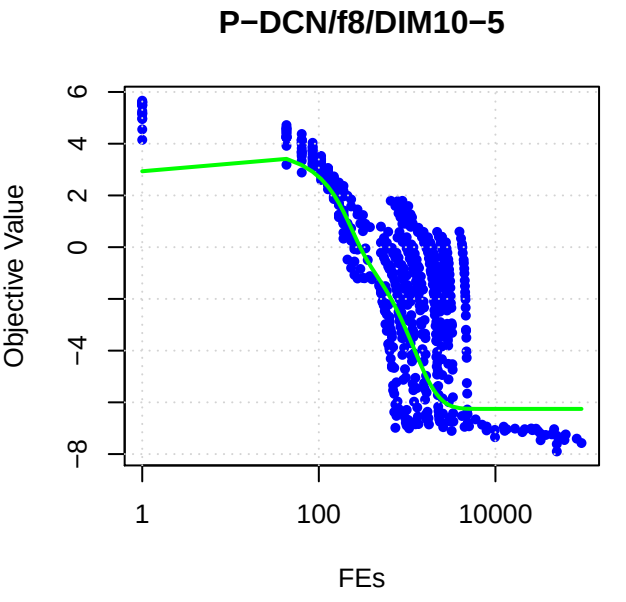
FEs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Objective Value
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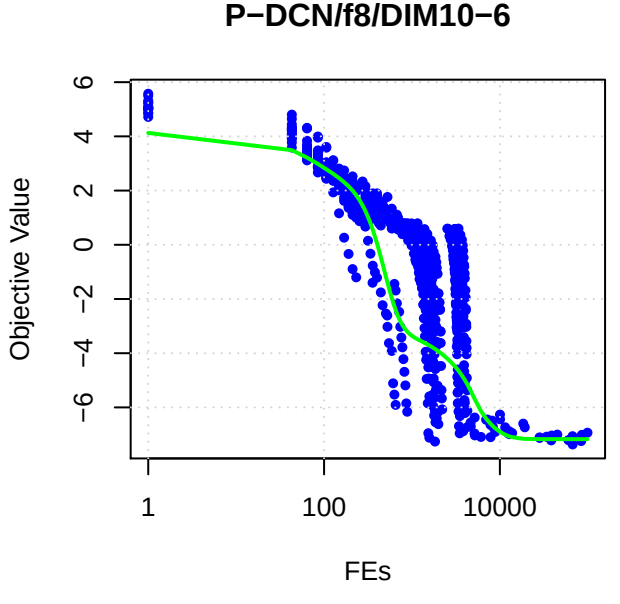
−4
−8
1
100
10000
FEs


P−DCN/f8/DIM10−6
Objective Value
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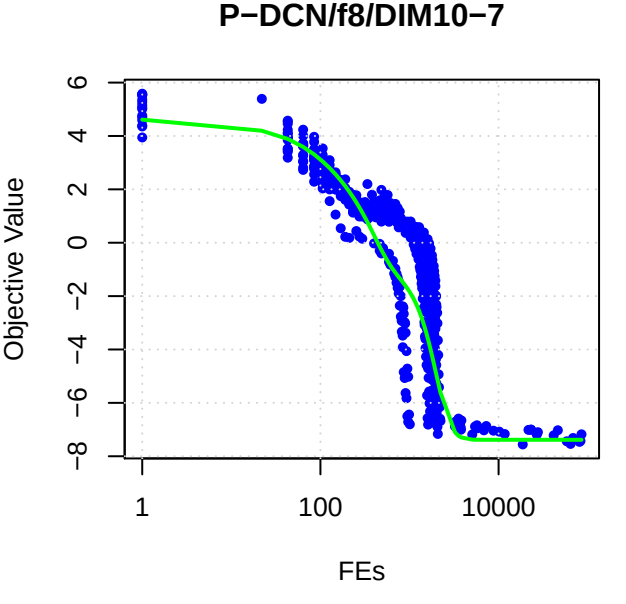
FEs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Objective Value
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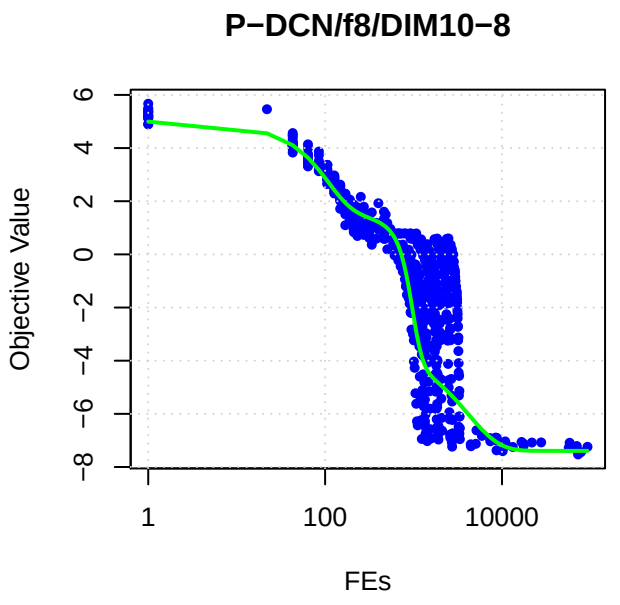
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Objective Value
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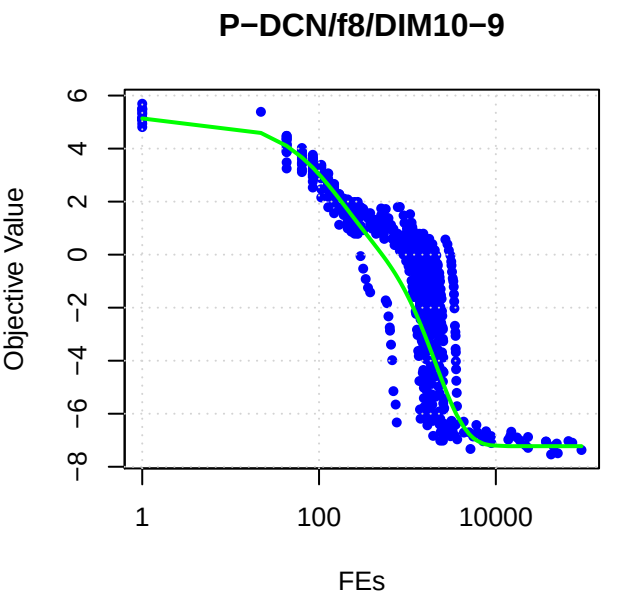
P−DCN/f8/DIM10−9
Objective Value
FEs
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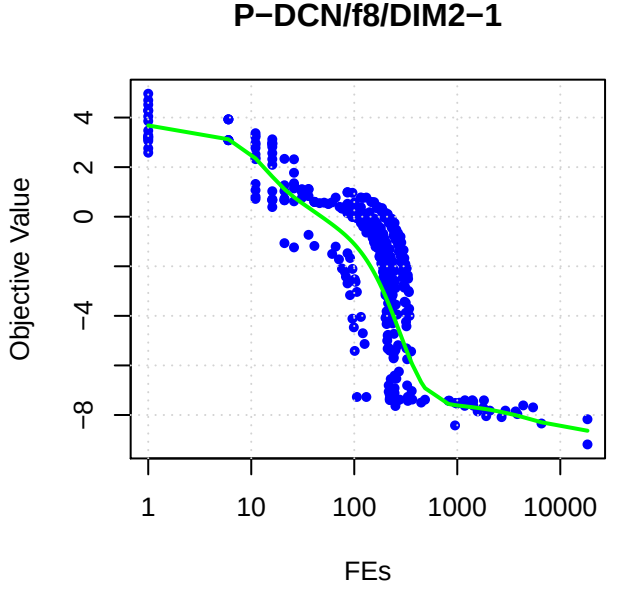
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Objective Value
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1000
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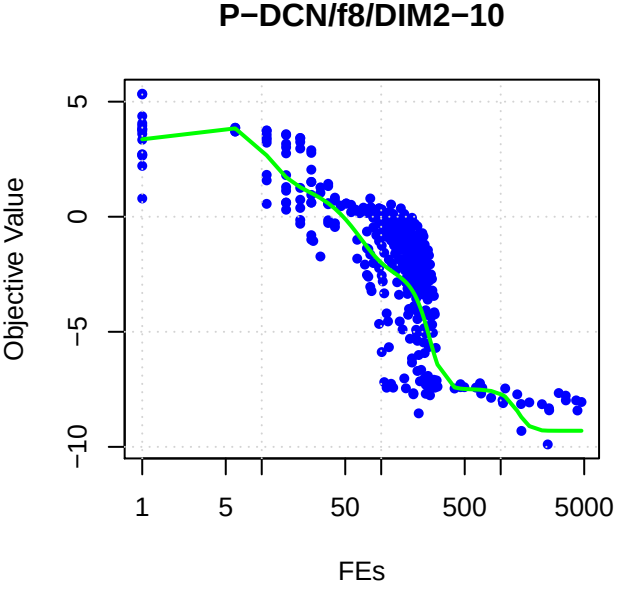
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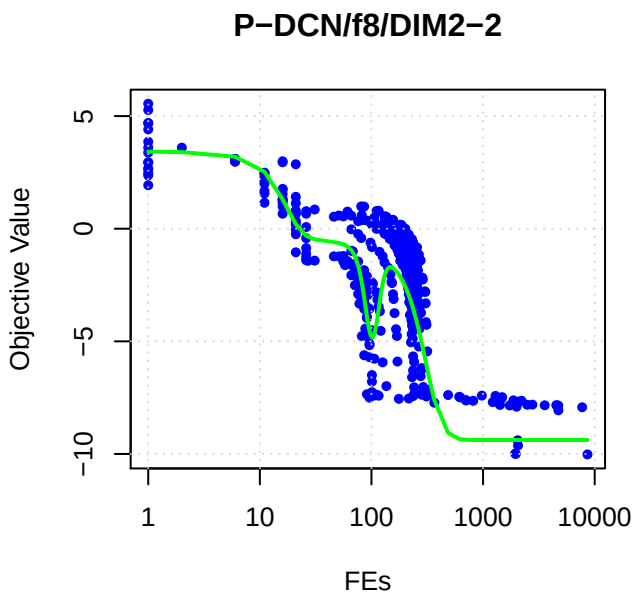
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Objective Value
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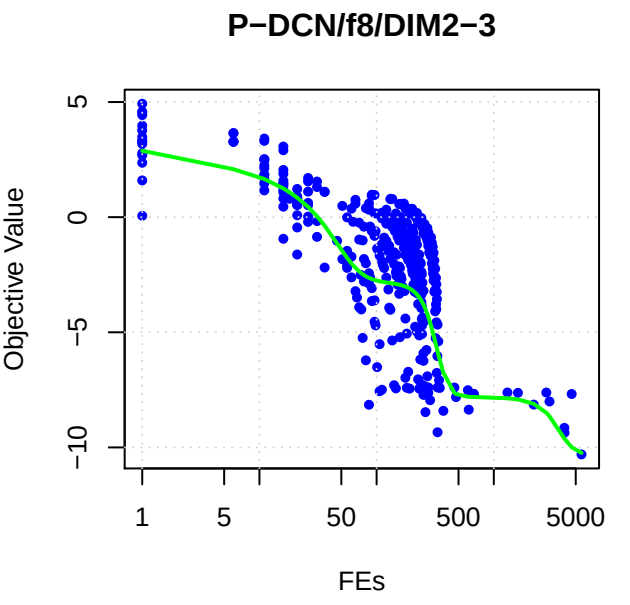
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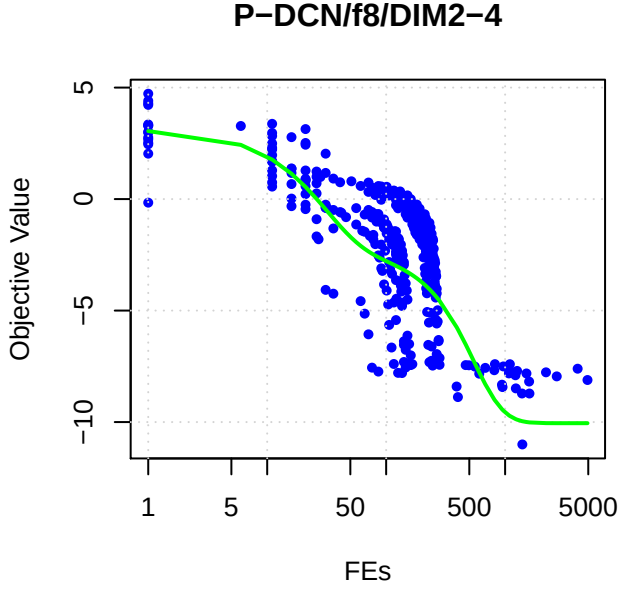
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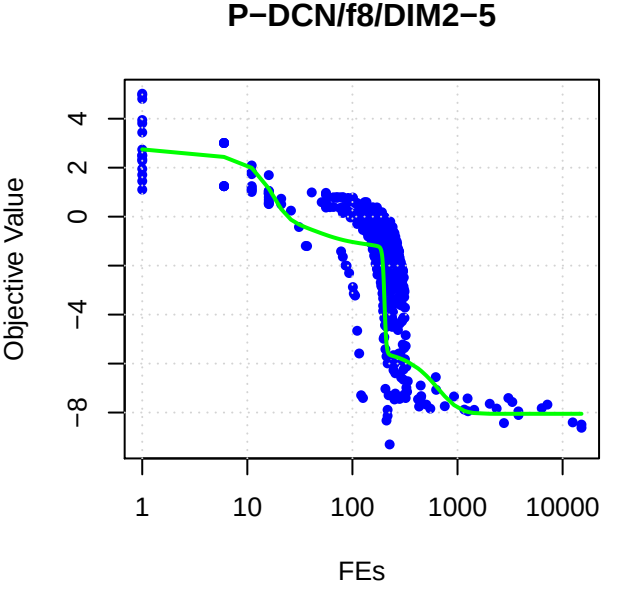
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Objective Value
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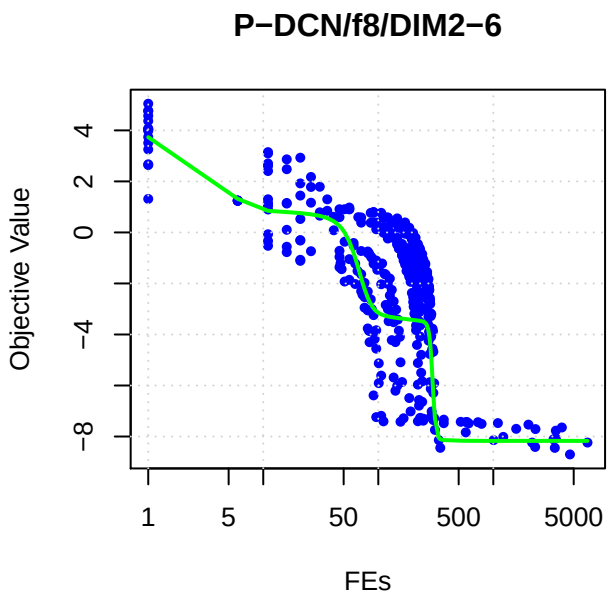
P−DCN/f8/DIM2−6
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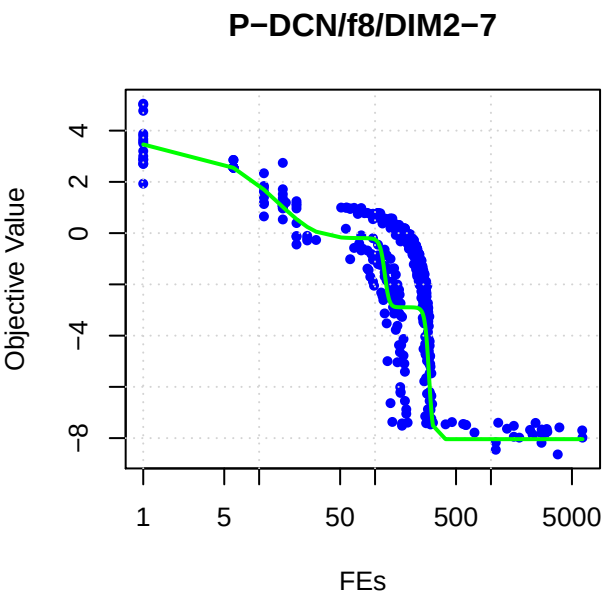
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Objective Value
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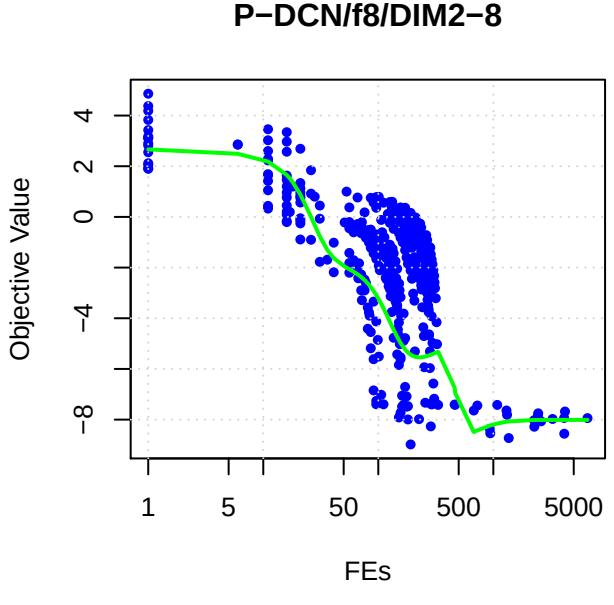
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Objective Value
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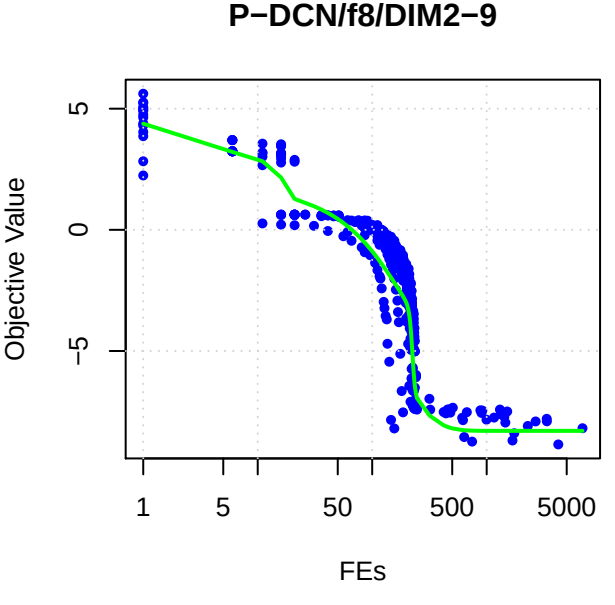
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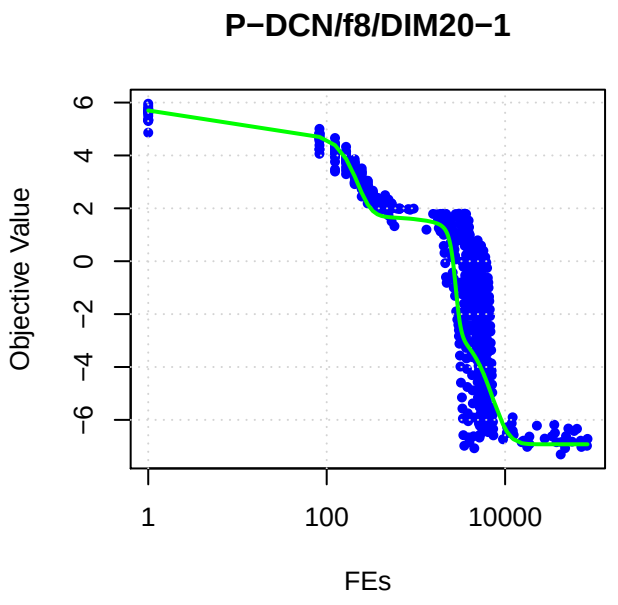
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Objective Value
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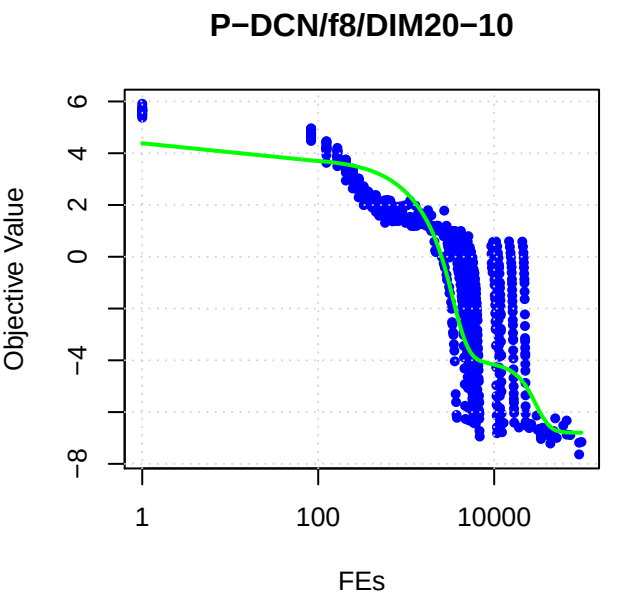
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Objective Value
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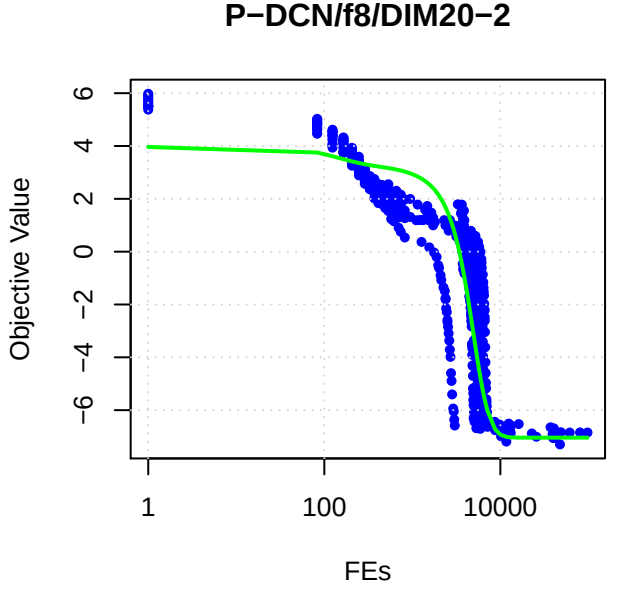
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Objective Value
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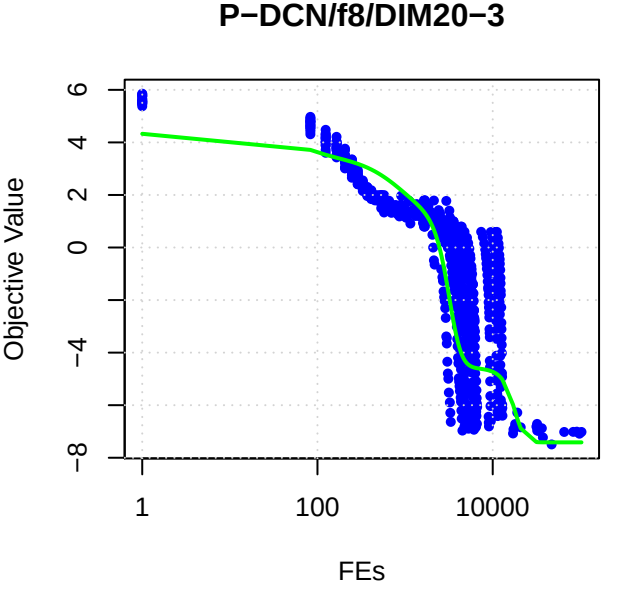
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Objective Value
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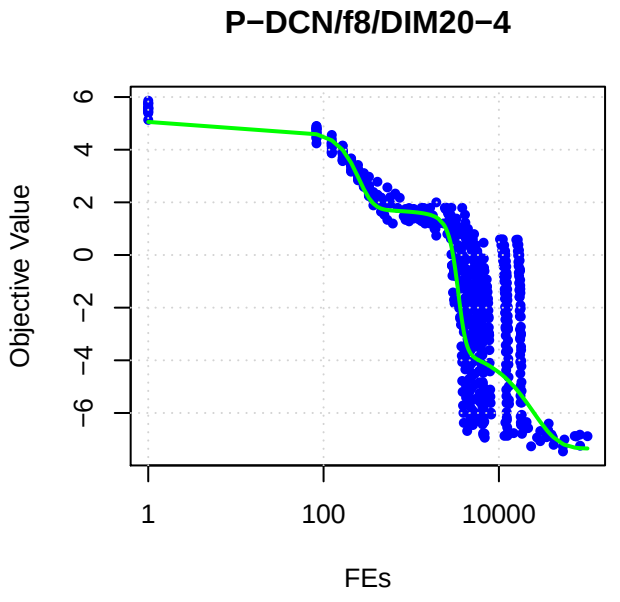
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Objective Value
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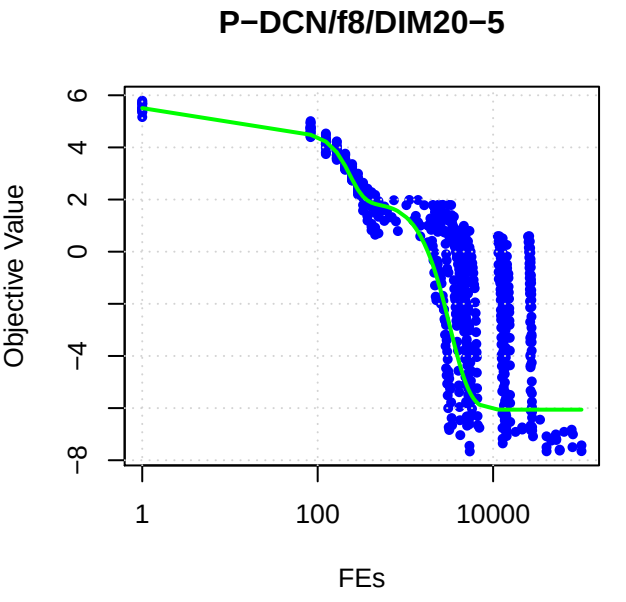
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Objective Value
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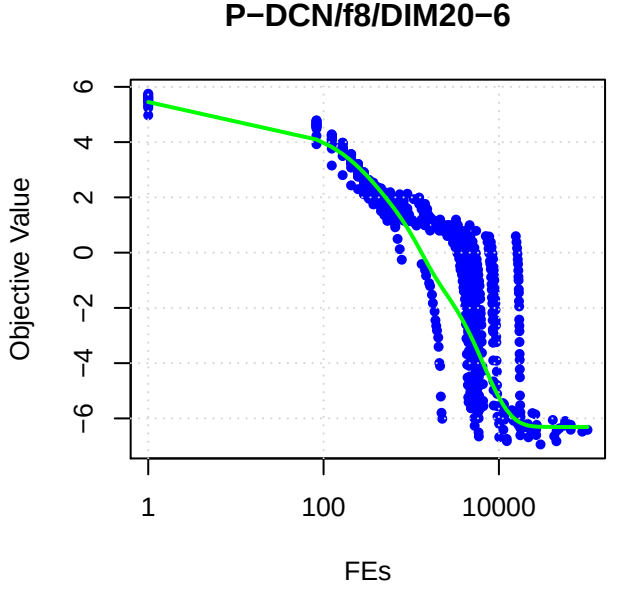
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Objective Value
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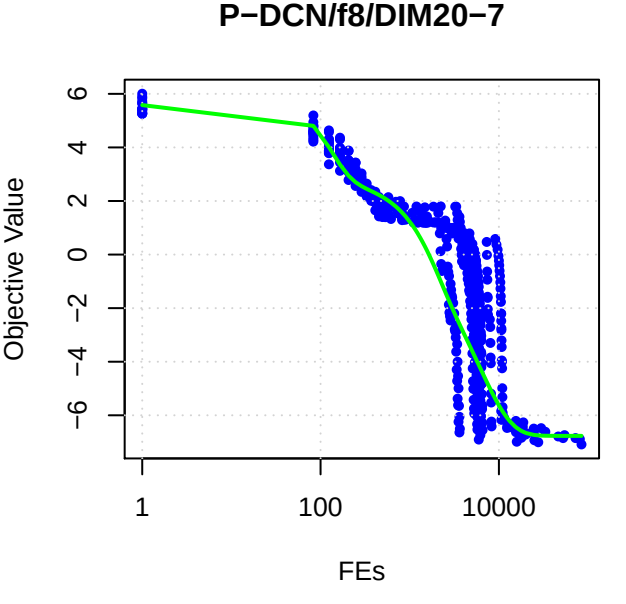
FEs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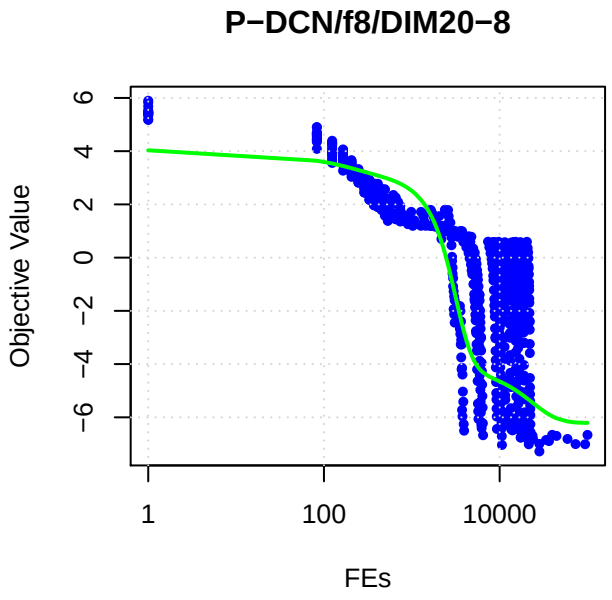
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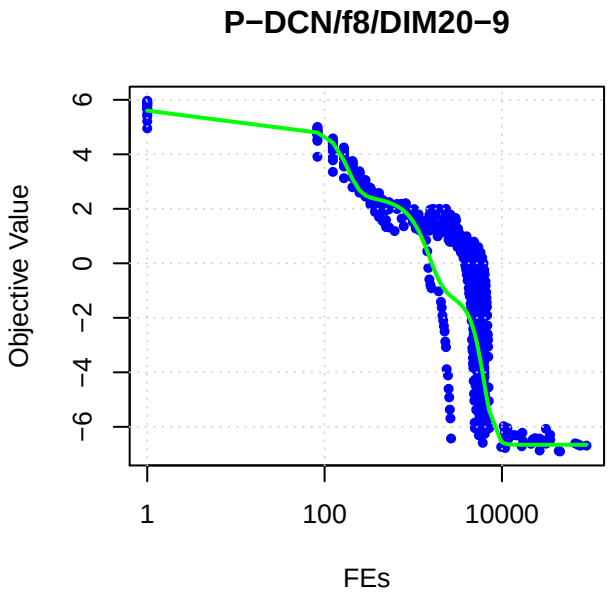
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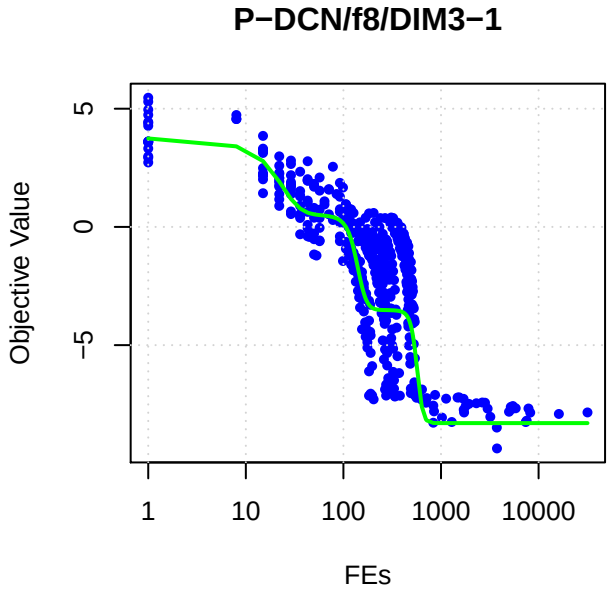
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Objective Value
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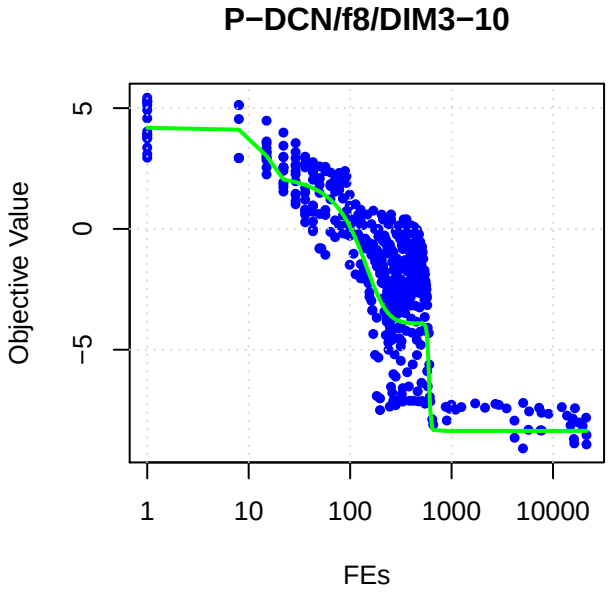
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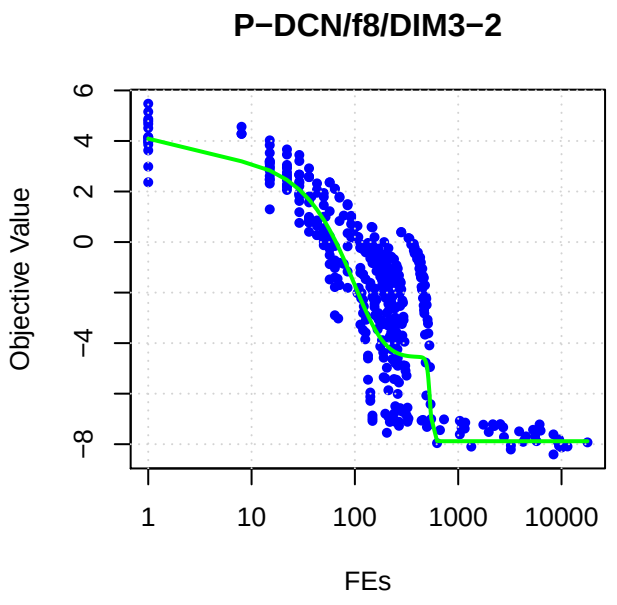
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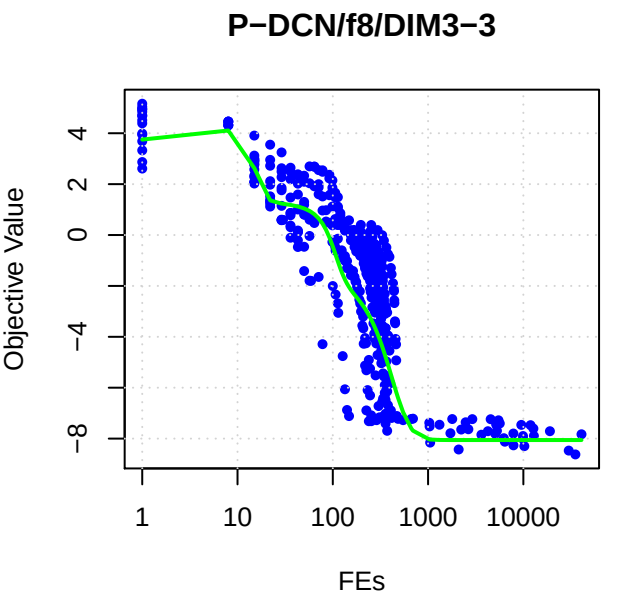
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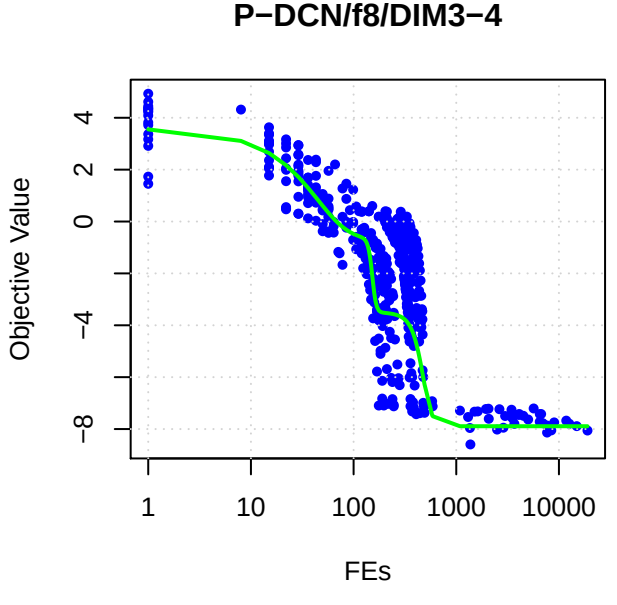
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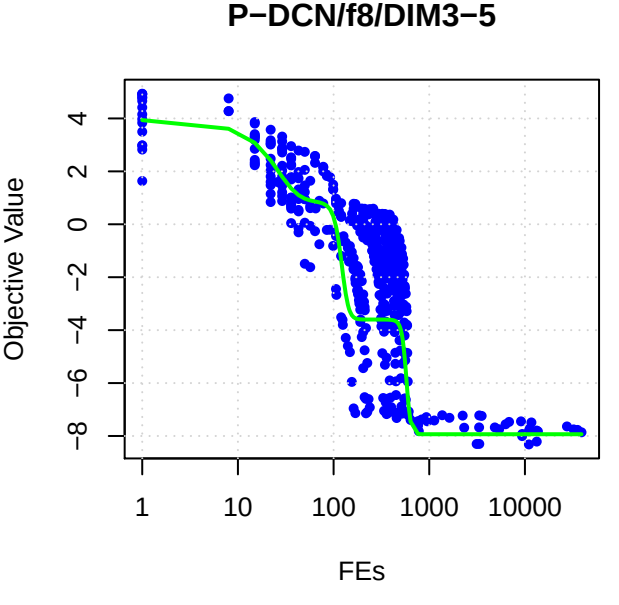
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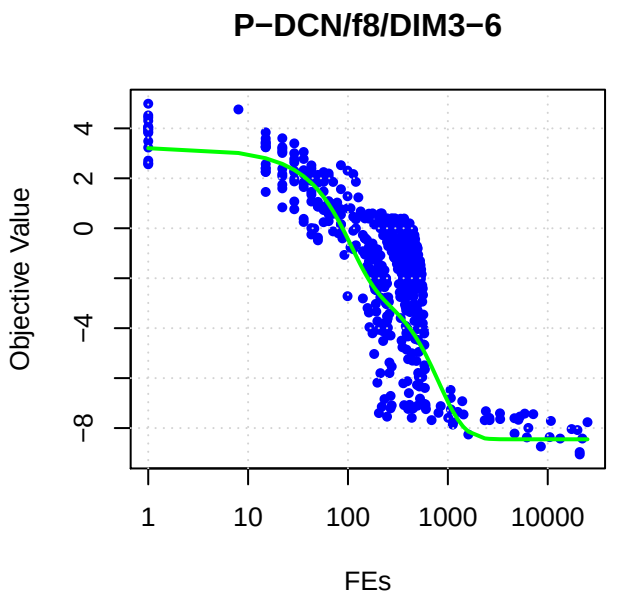
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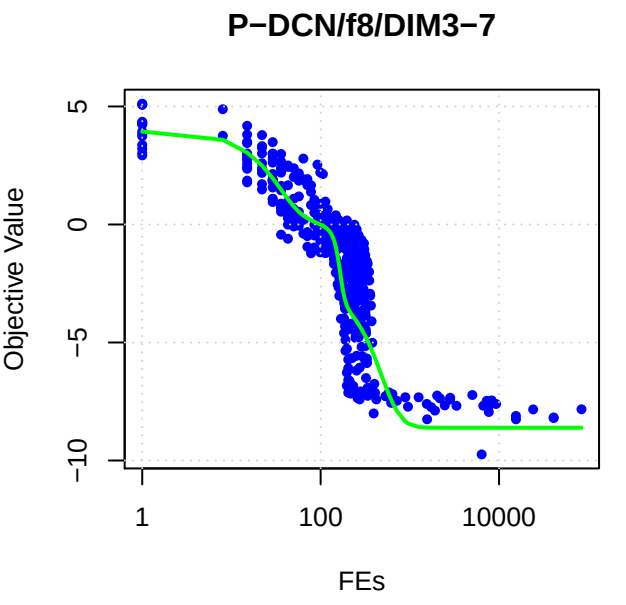
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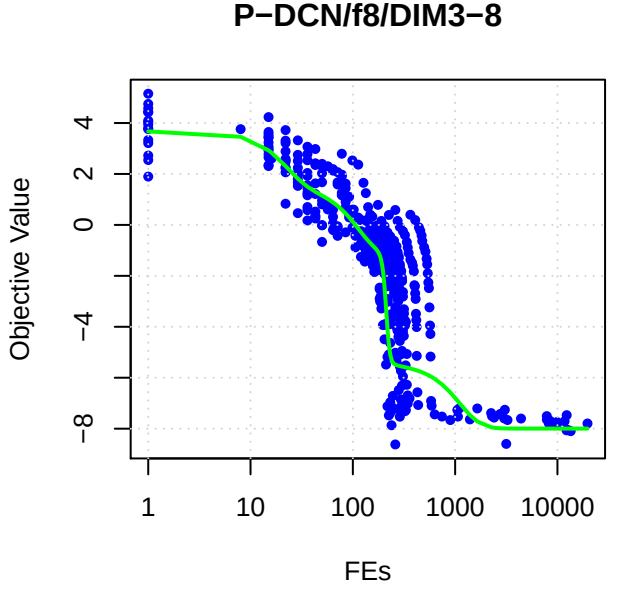
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Objective Value
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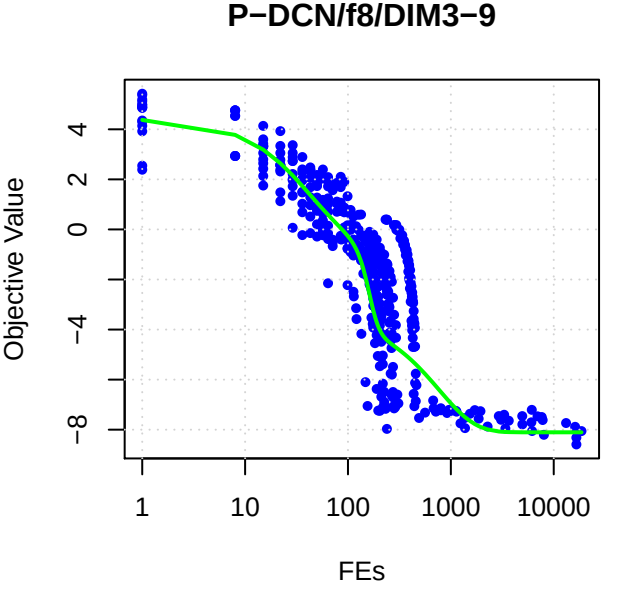
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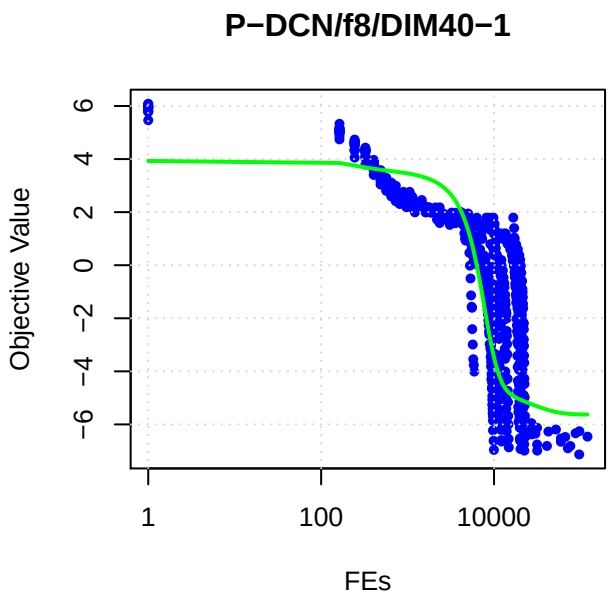
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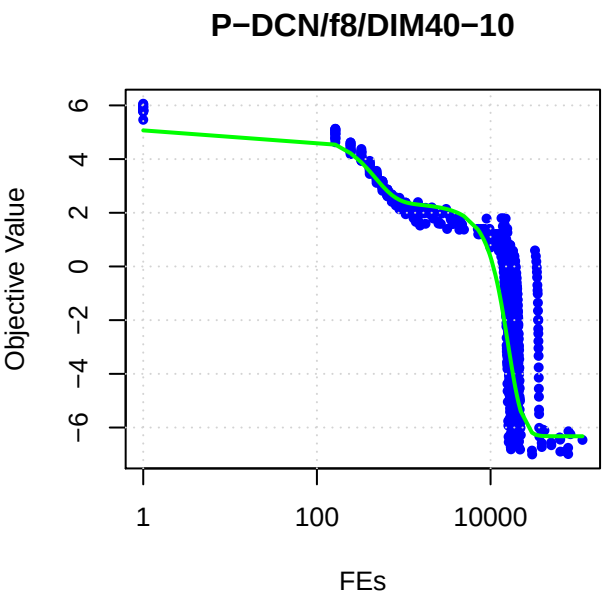
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Objective Value
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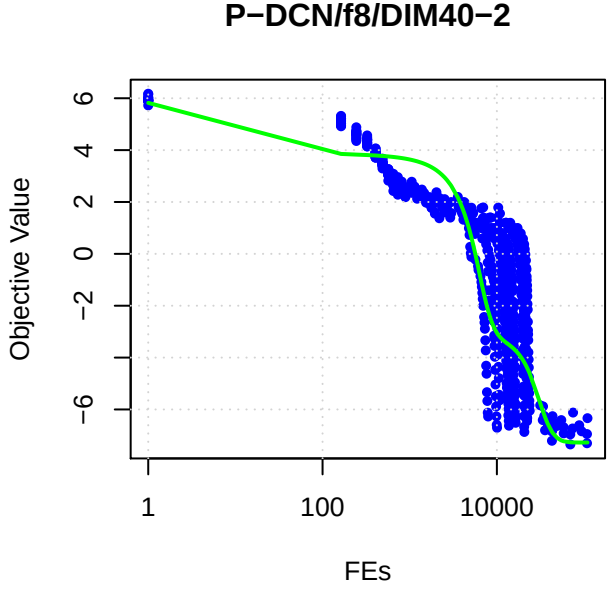
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Objective Value
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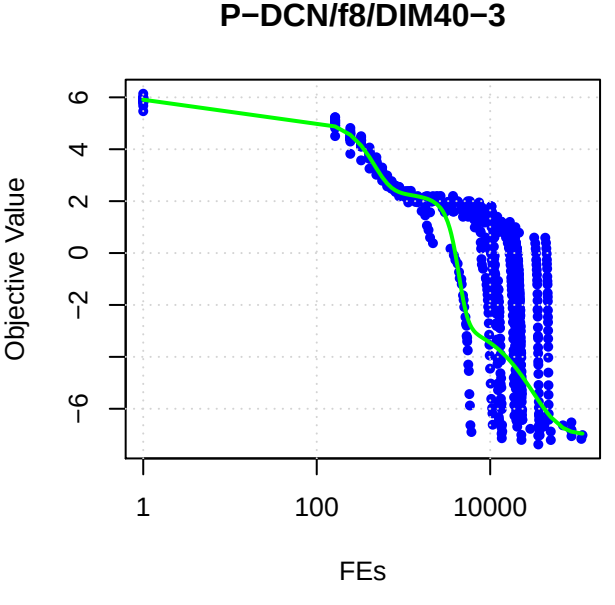
FEs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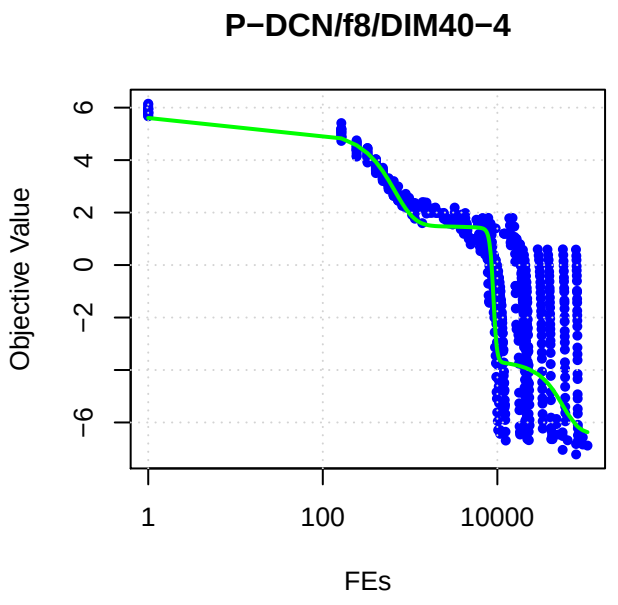
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Objective Value
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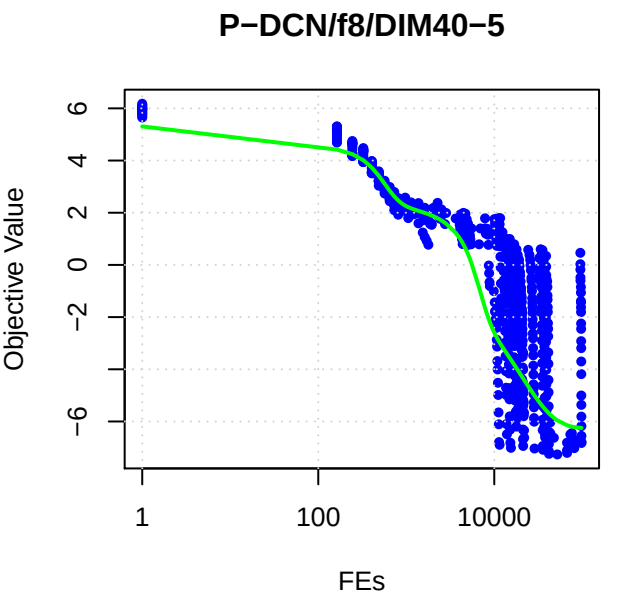
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Objective Value
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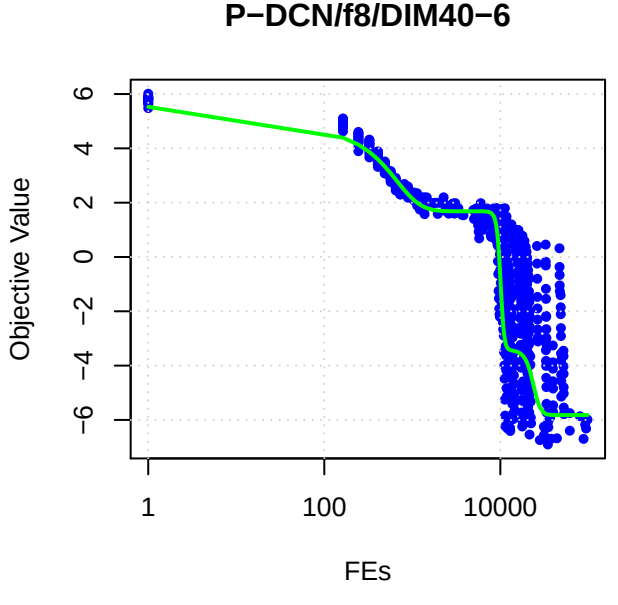
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Objective Value
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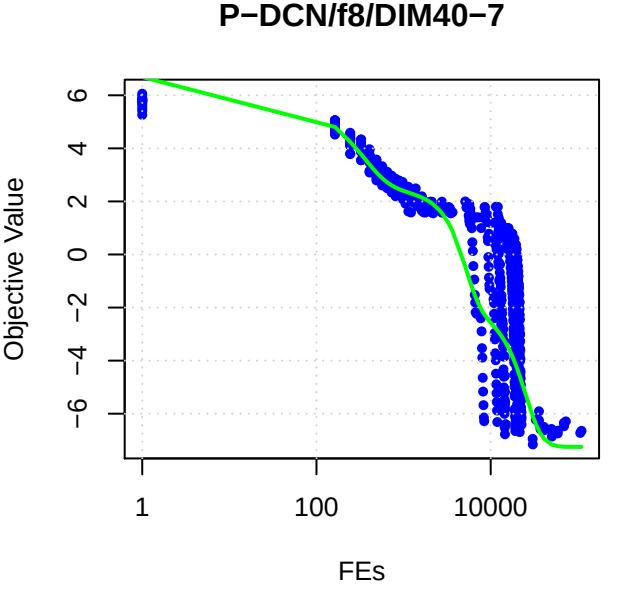
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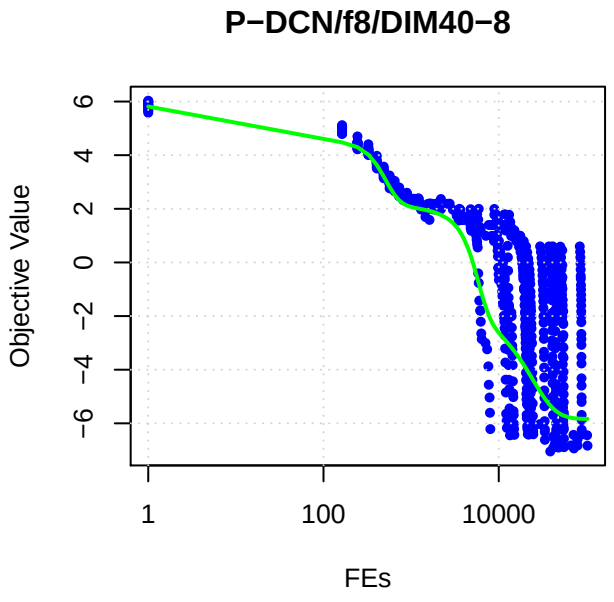
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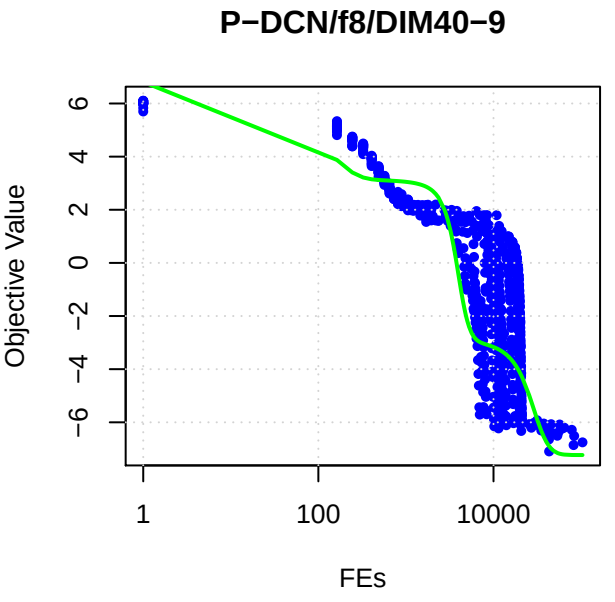
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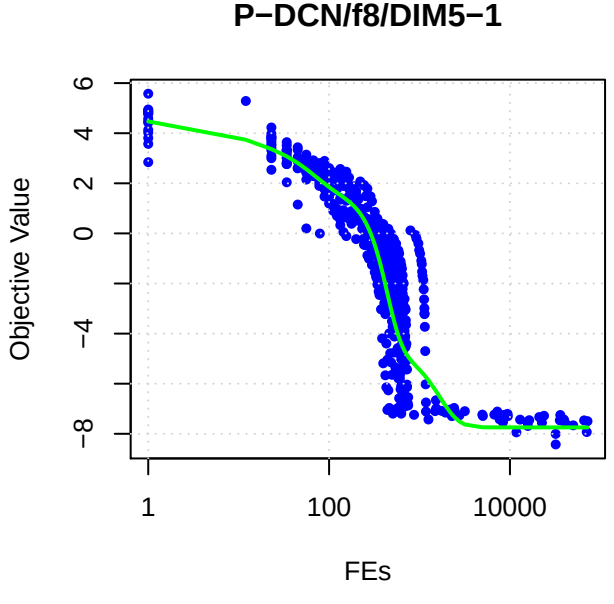
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Objective Value
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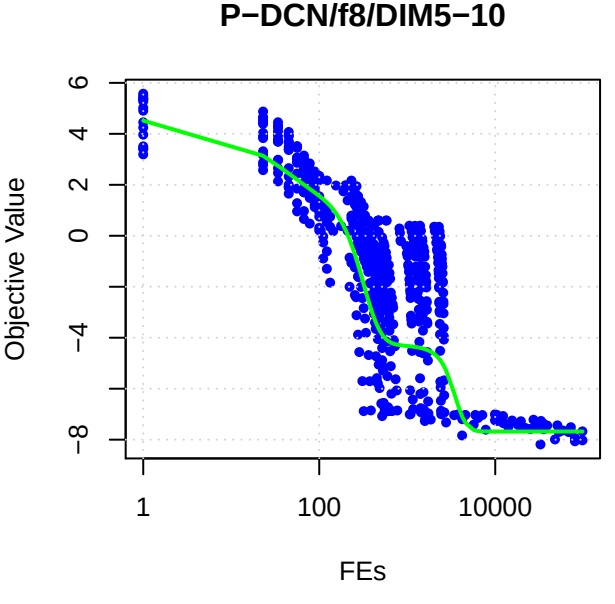
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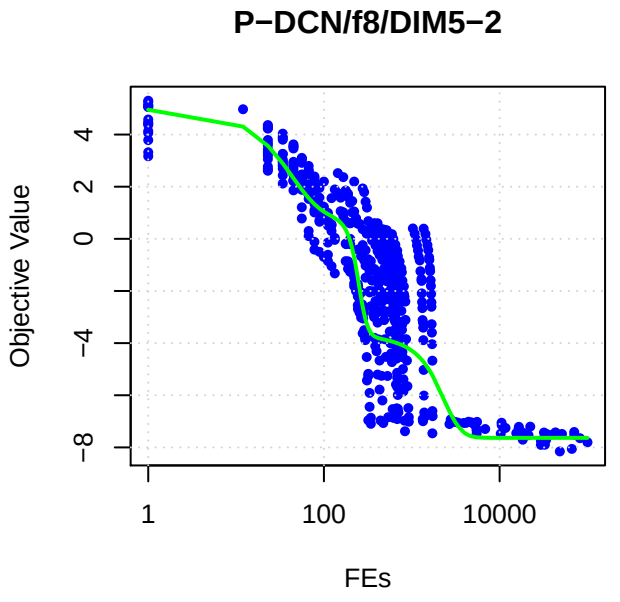
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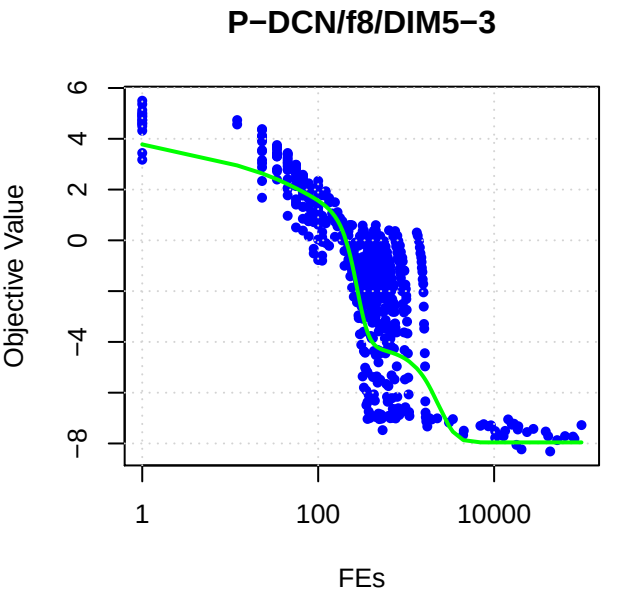
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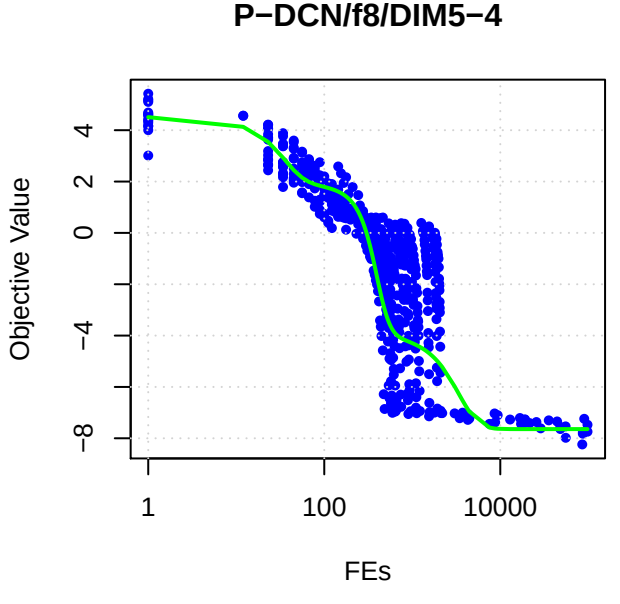
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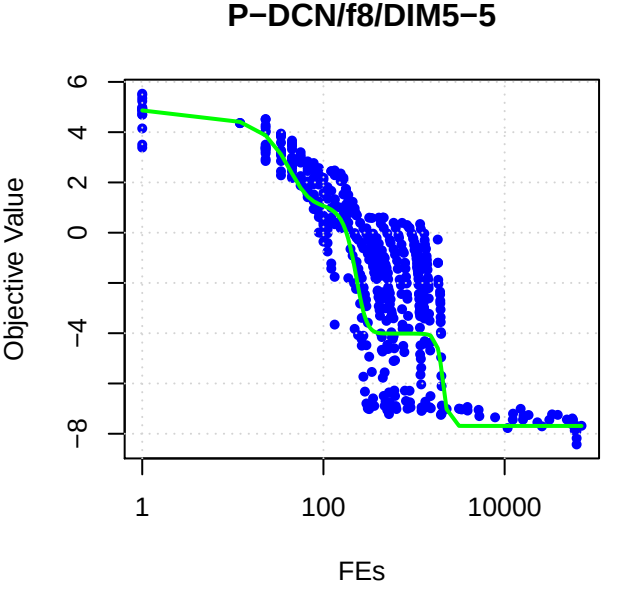
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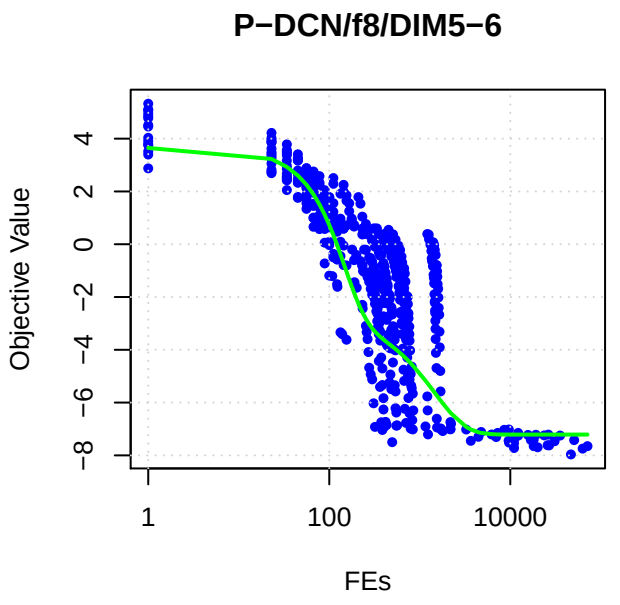
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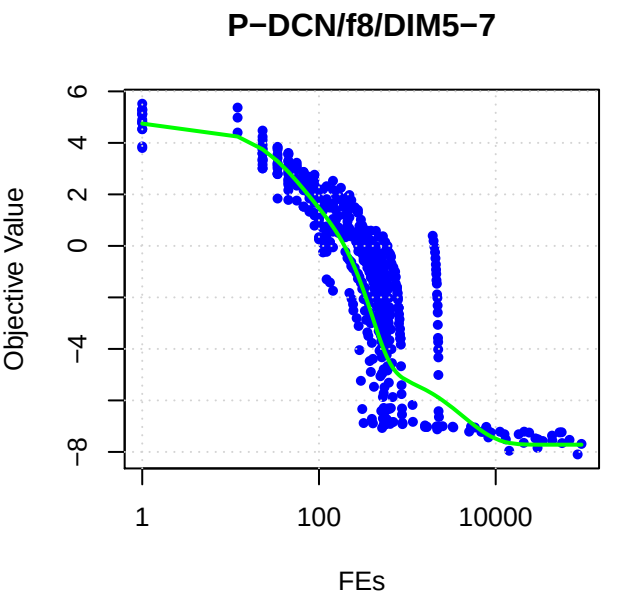
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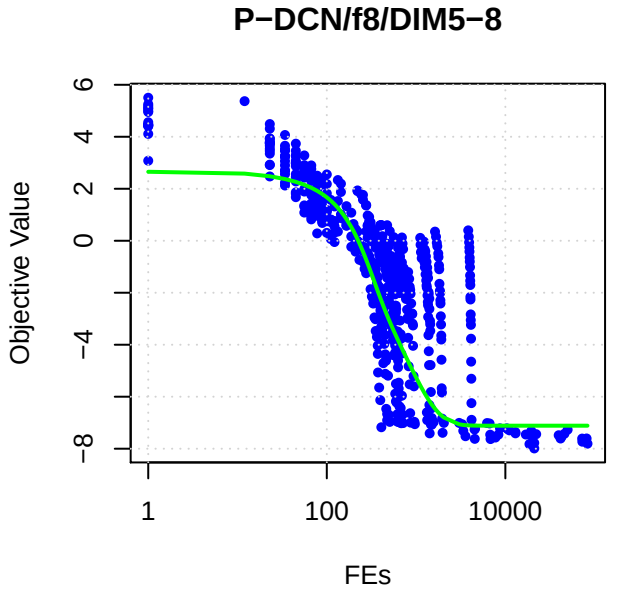
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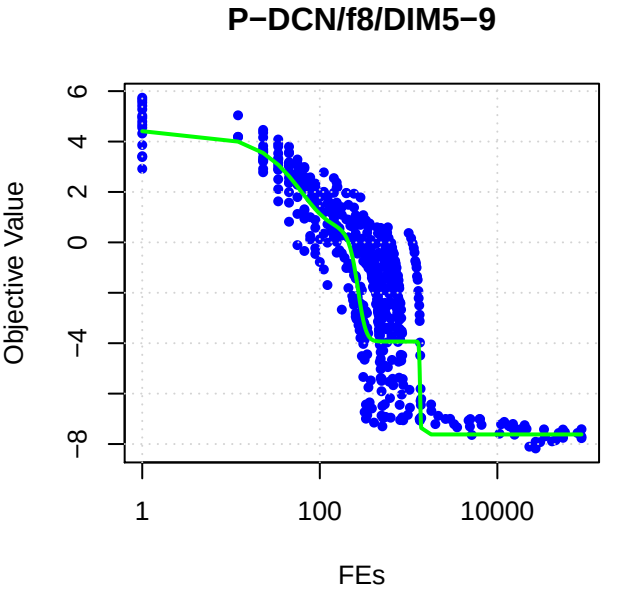
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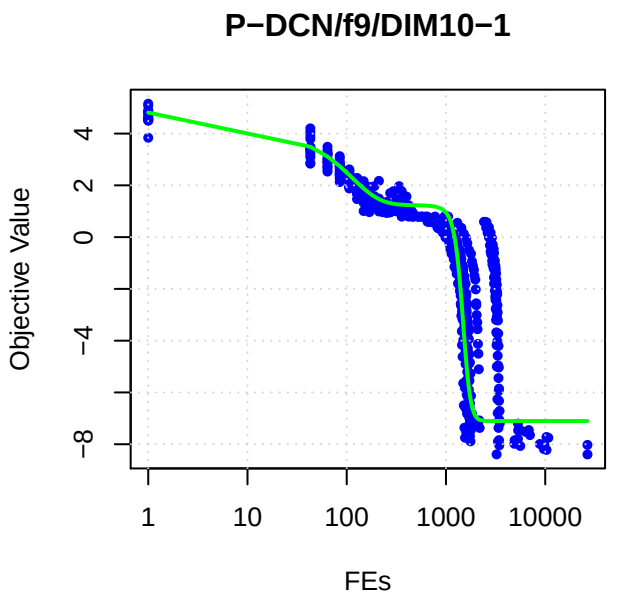
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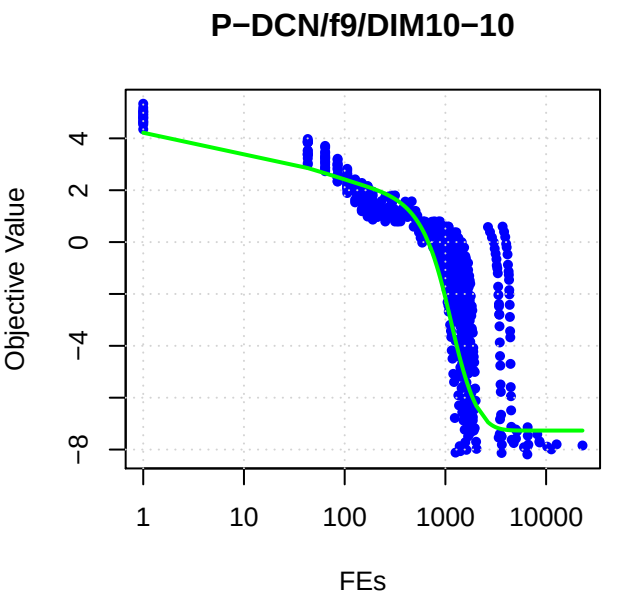
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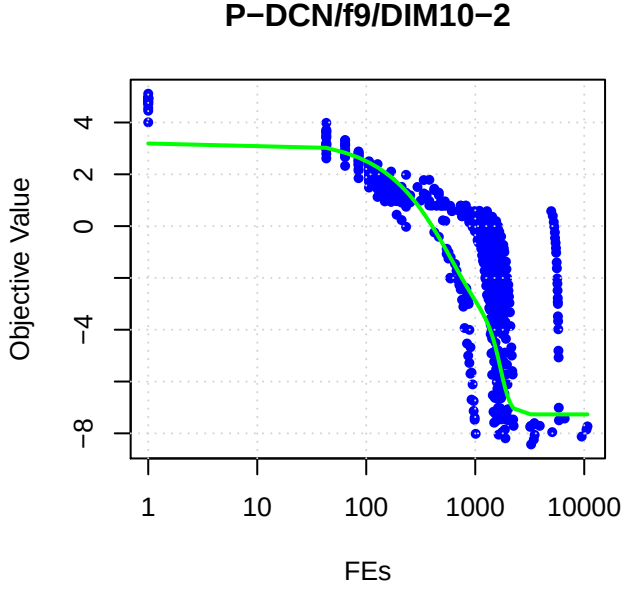
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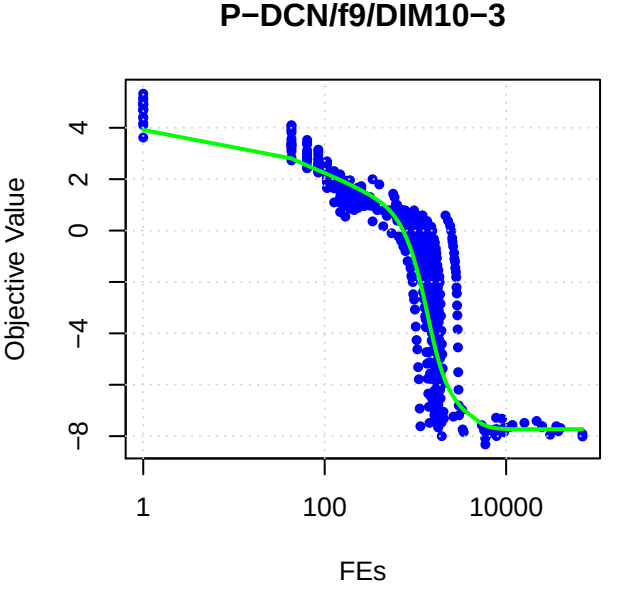
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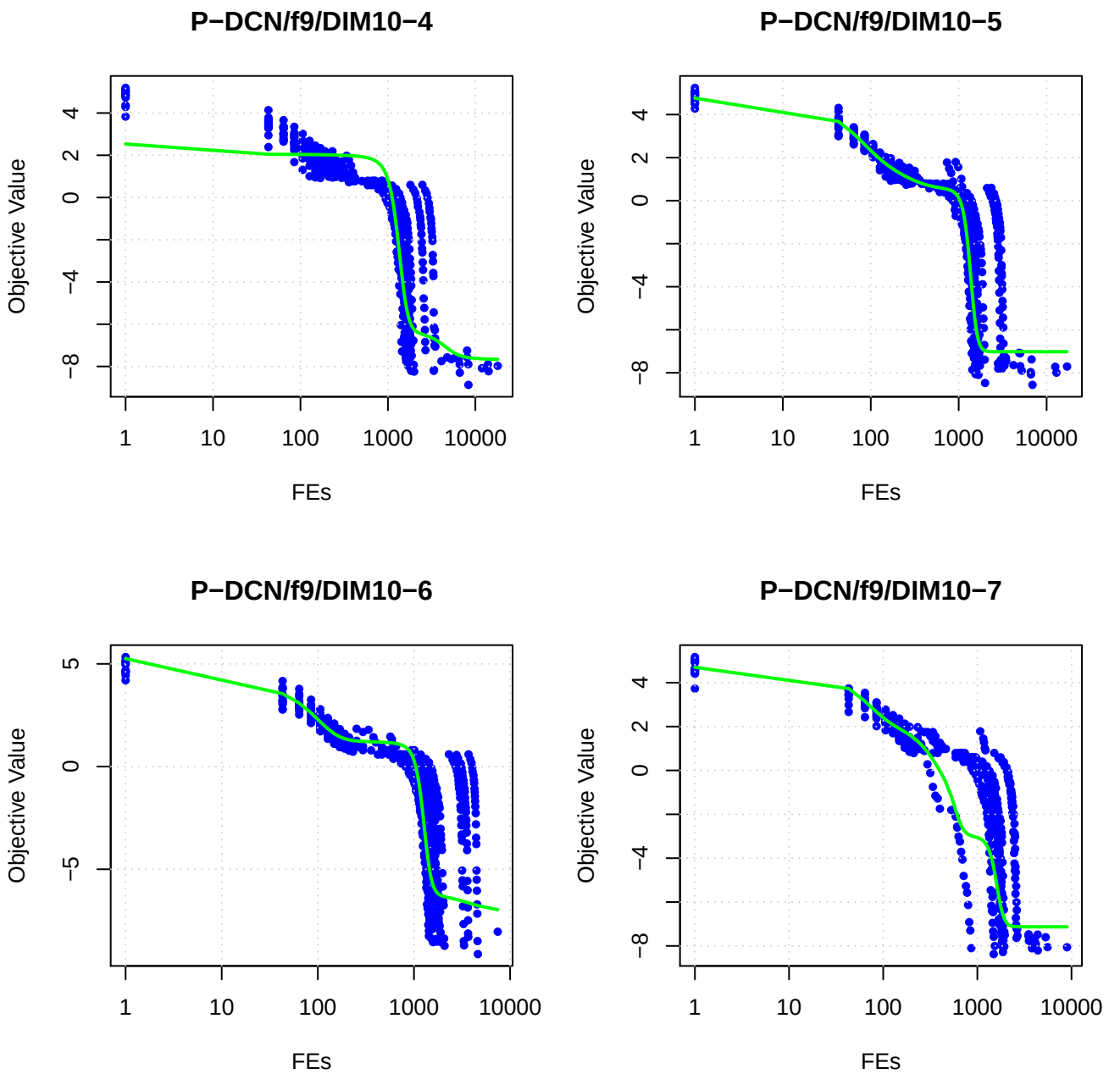
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P−DCN/f9/DIM10−5
P−DCN/f9/DIM10−6
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Objective Value
FEs
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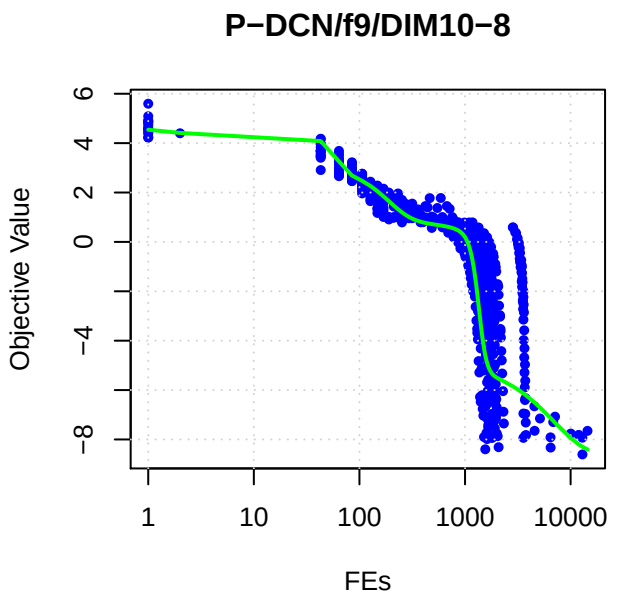
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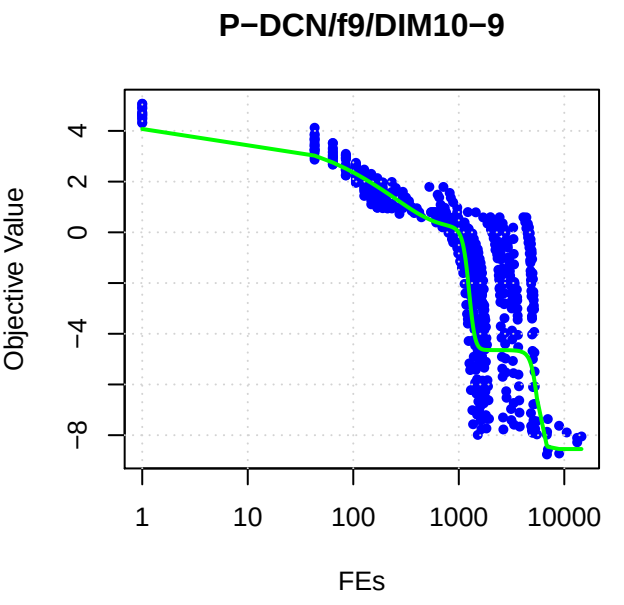
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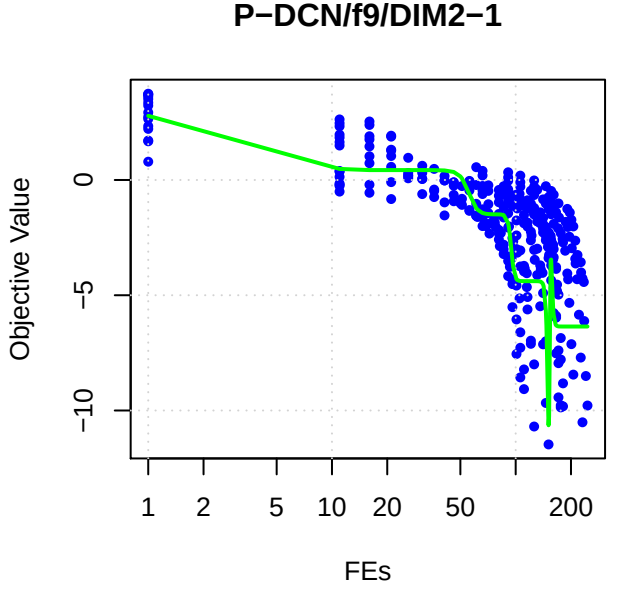
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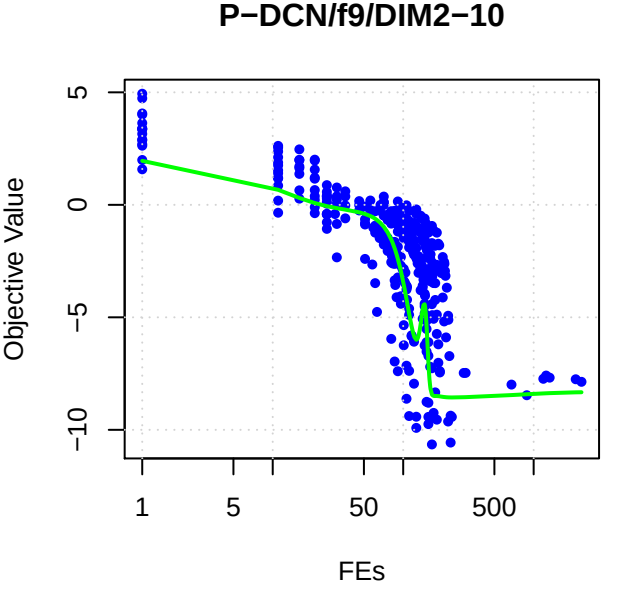
P−DCN/f9/DIM2−10
Objective Value
FEs
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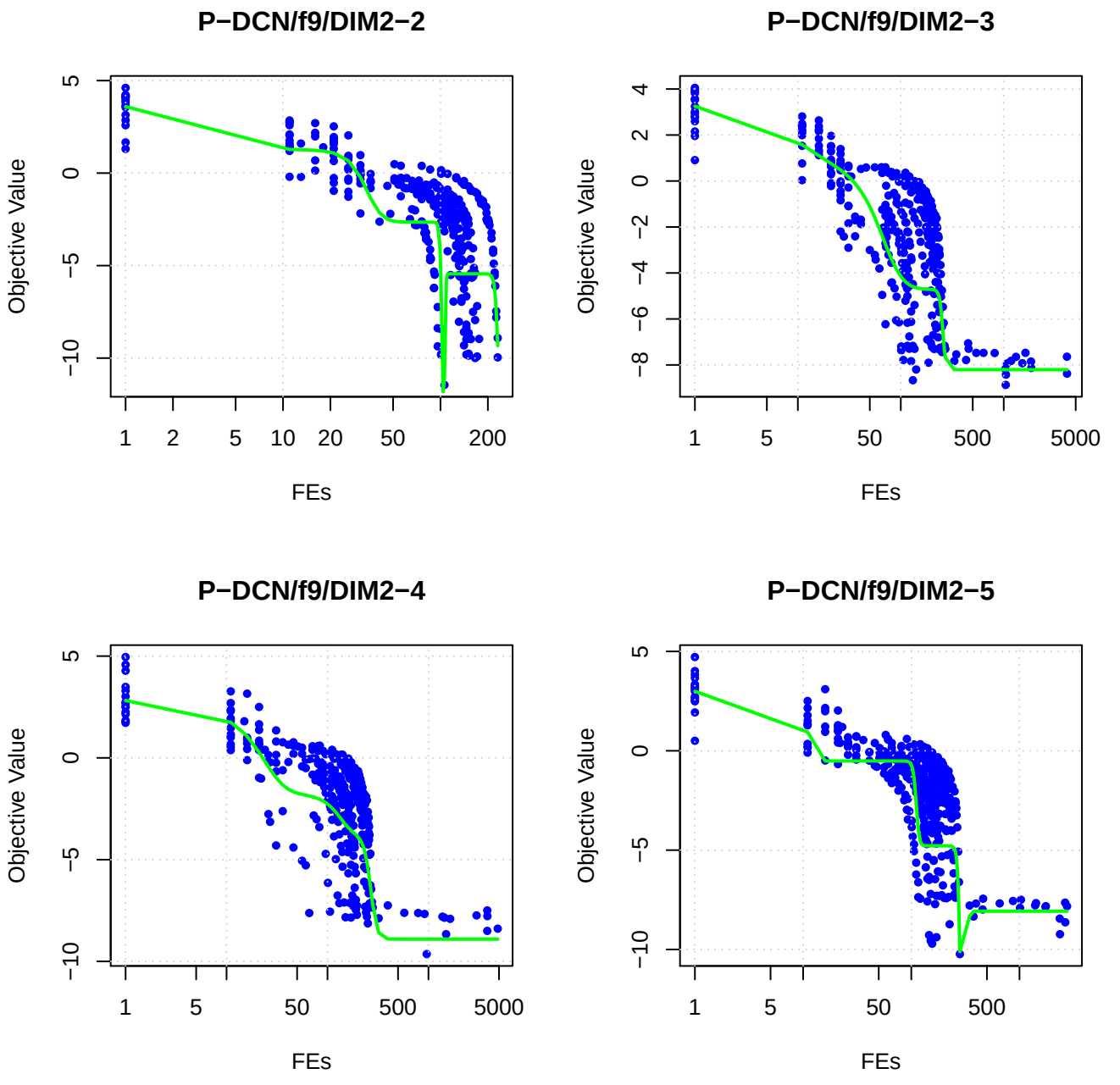
P−DCN/f9/DIM2−2
Objective Value
FEs
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−10
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5
10
20
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P−DCN/f9/DIM2−3
Objective Value
FEs
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2
0
−2
−4
−6
−8
1
5
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500
5000
P−DCN/f9/DIM2−4
Objective Value
FEs
5
0
−5
−10
1
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500
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P−DCN/f9/DIM2−5
Objective Value
FEs
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−10
1
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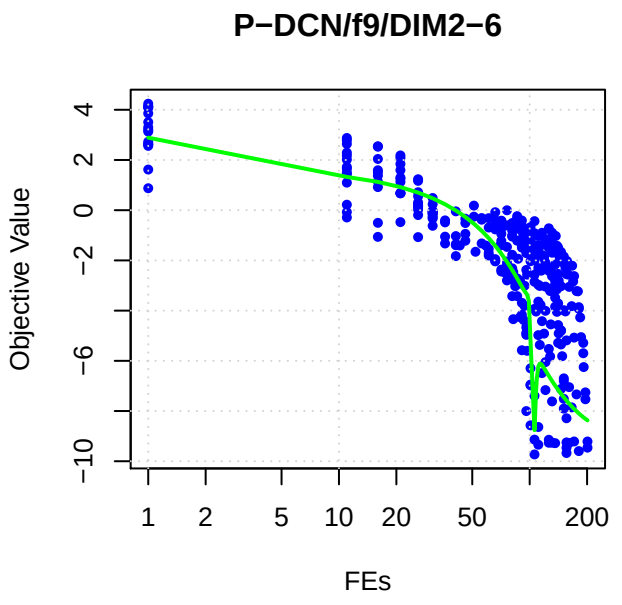
P−DCN/f9/DIM2−6
Objective Value
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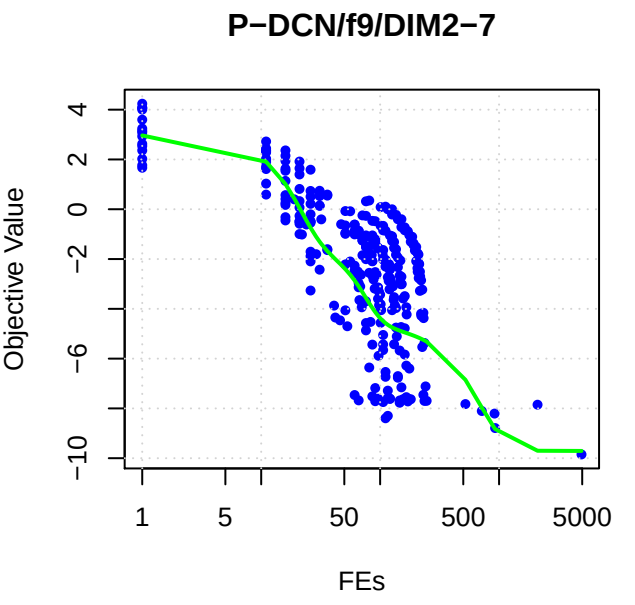
FEs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Objective Value
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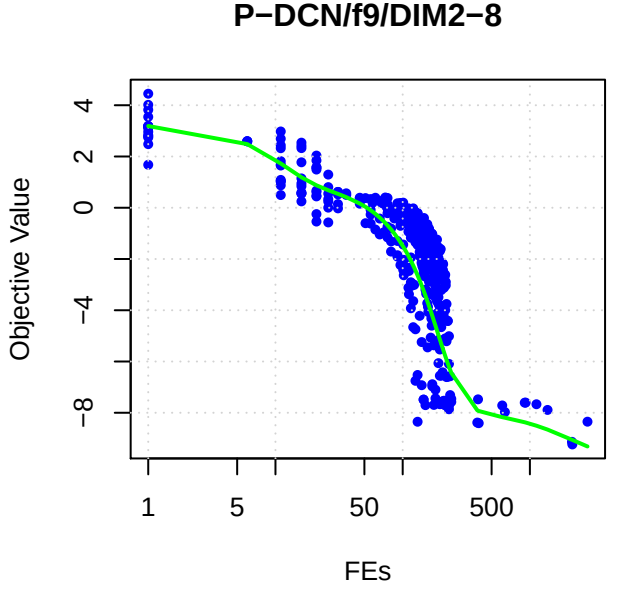
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Objective Value
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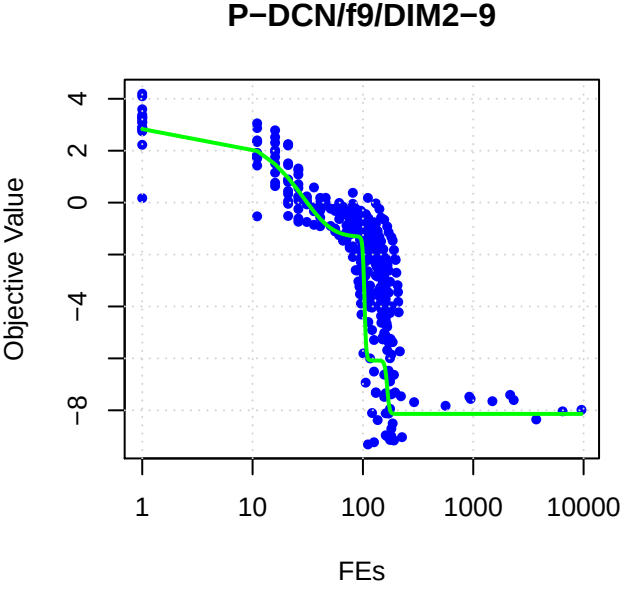
FEs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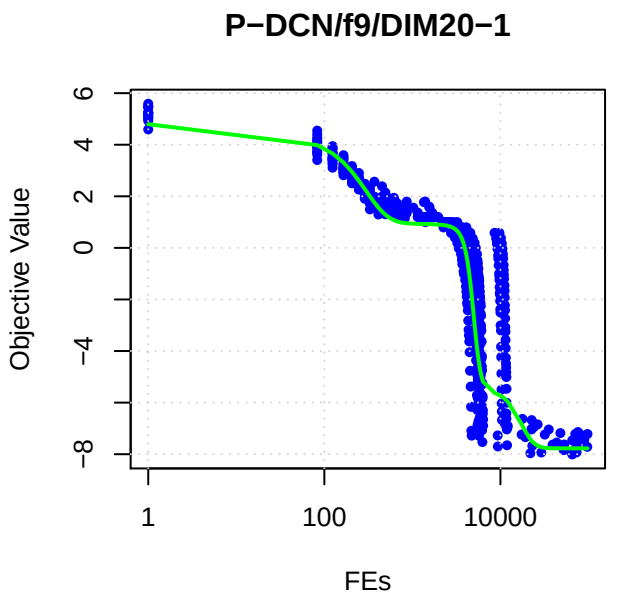
FEs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Objective Value
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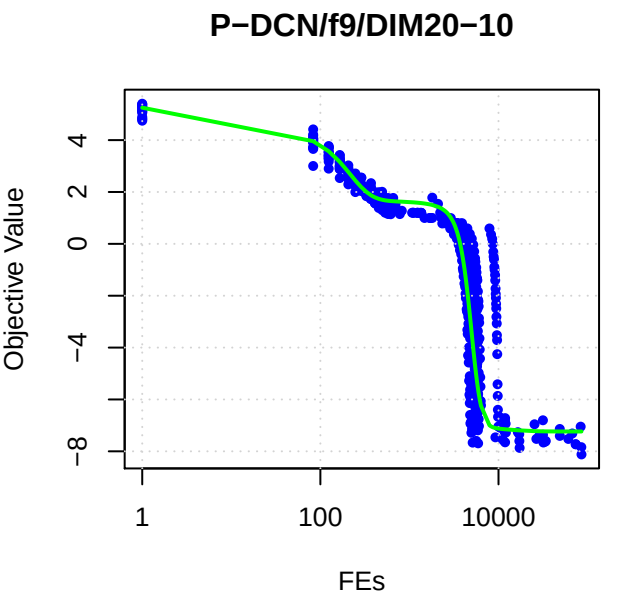
FEs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Objective Value
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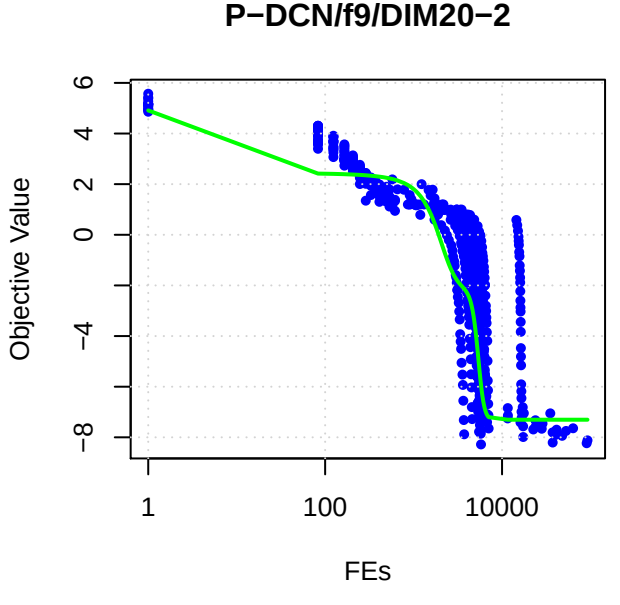
FEs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Objective Value
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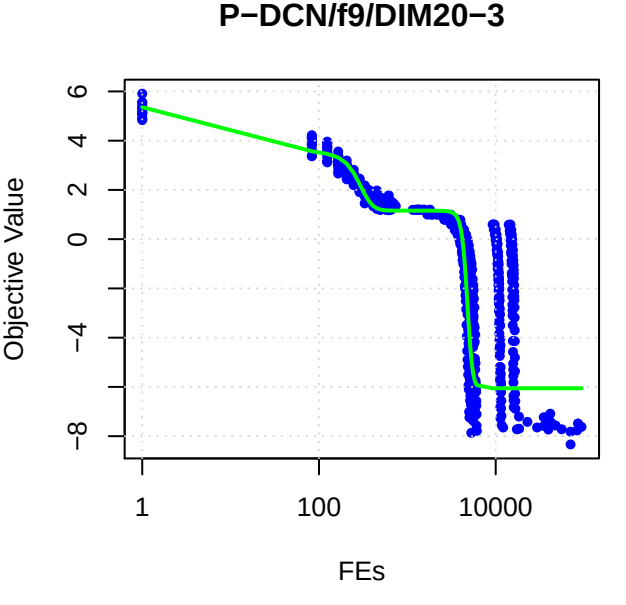
FEs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Objective Value
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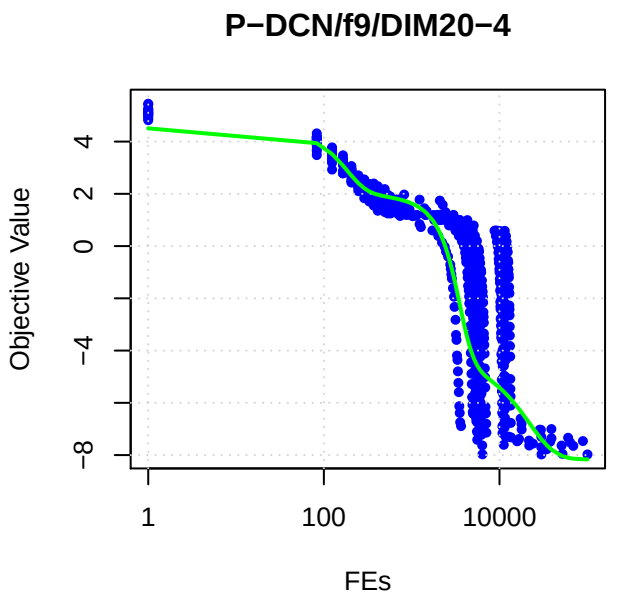
10000
FEs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Objective Value
FEs
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−8
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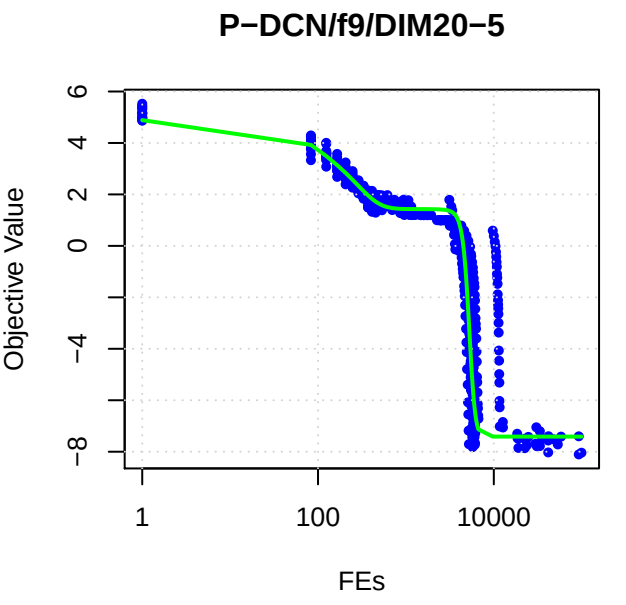
100
10000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Objective Value
FEs
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2
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100
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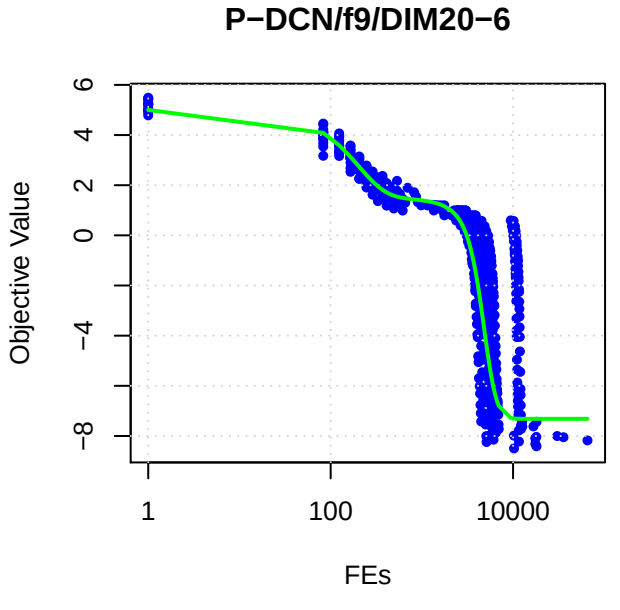
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Objective Value
FEs
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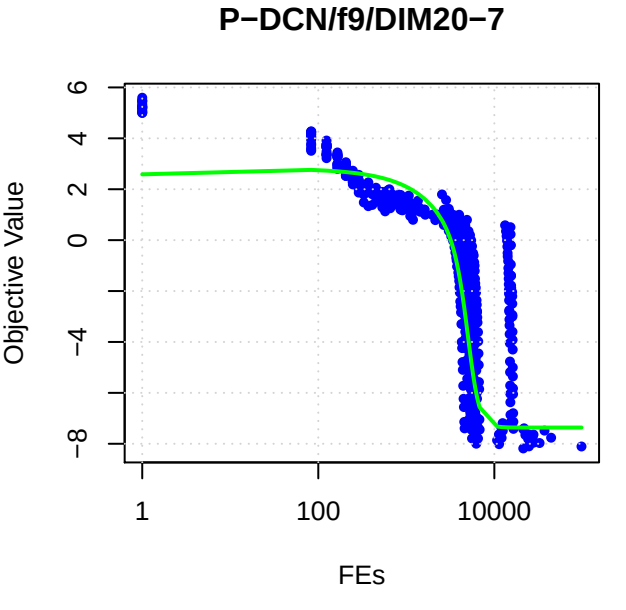
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Objective Value
FEs
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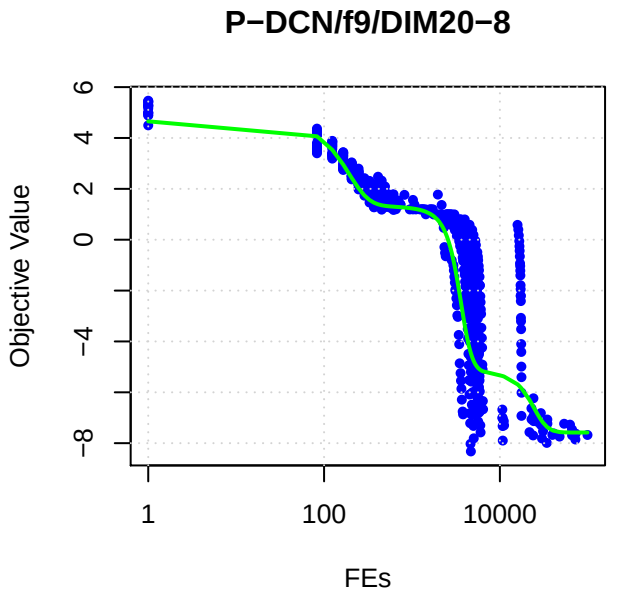
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Objective Value
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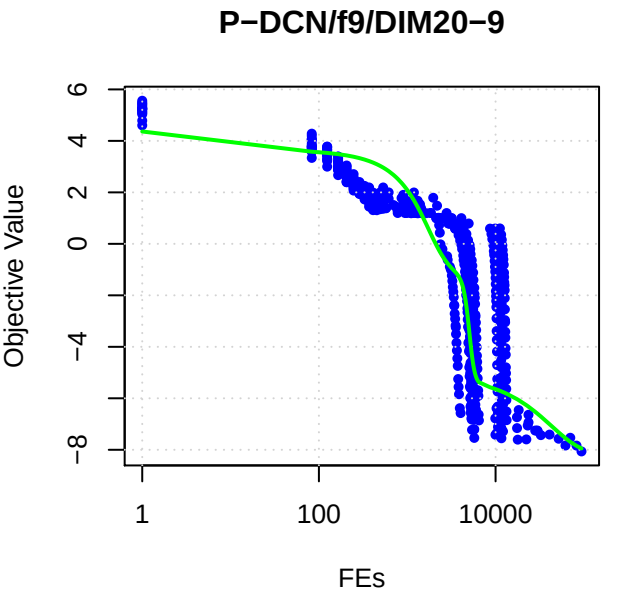
FEs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Objective Value
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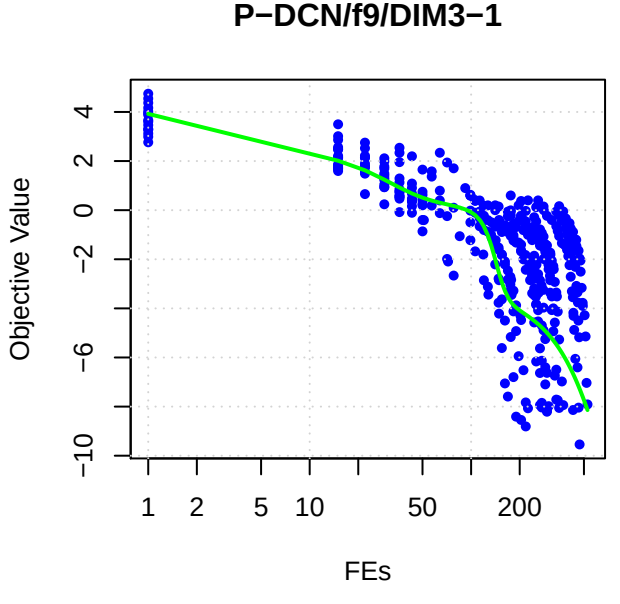
10000
FEs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Objective Value
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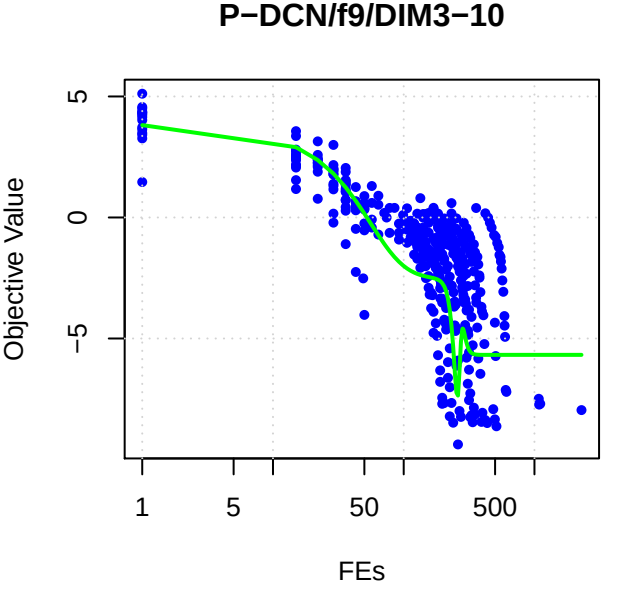
FEs


P−DCN/f9/DIM3−10
Objective Value
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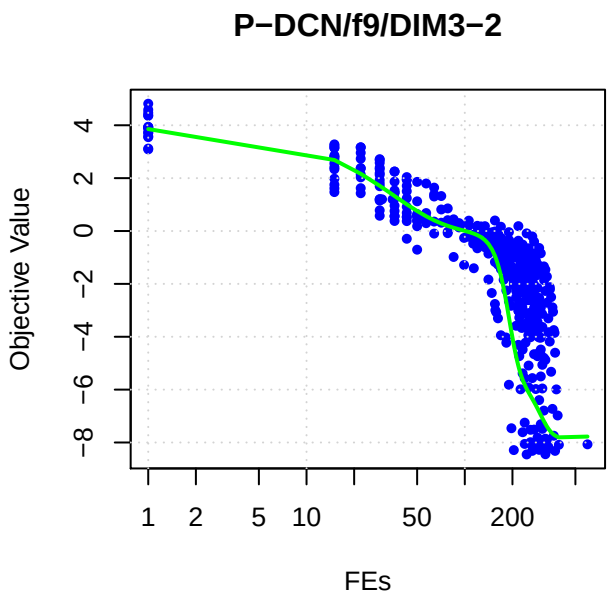
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Objective Value
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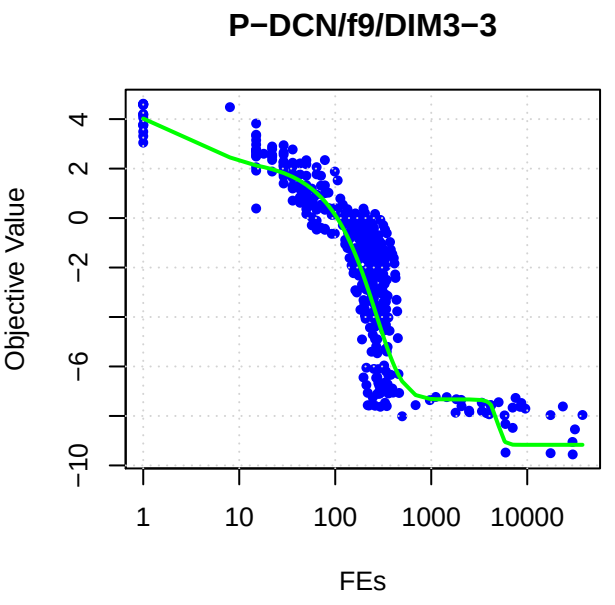
FEs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Objective Value
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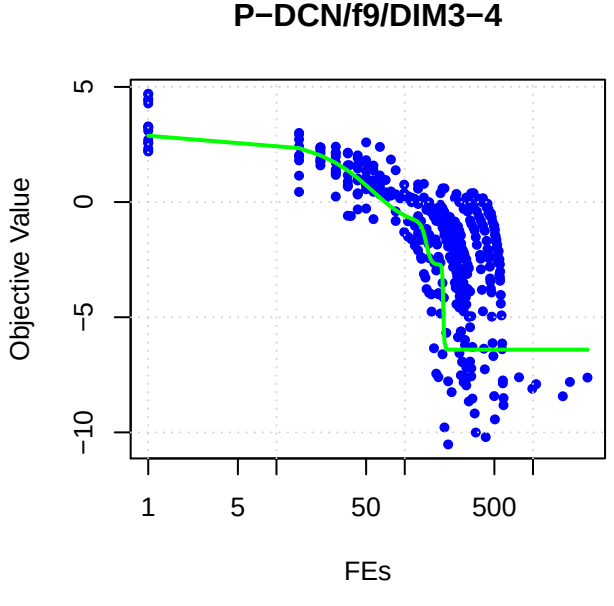
FEs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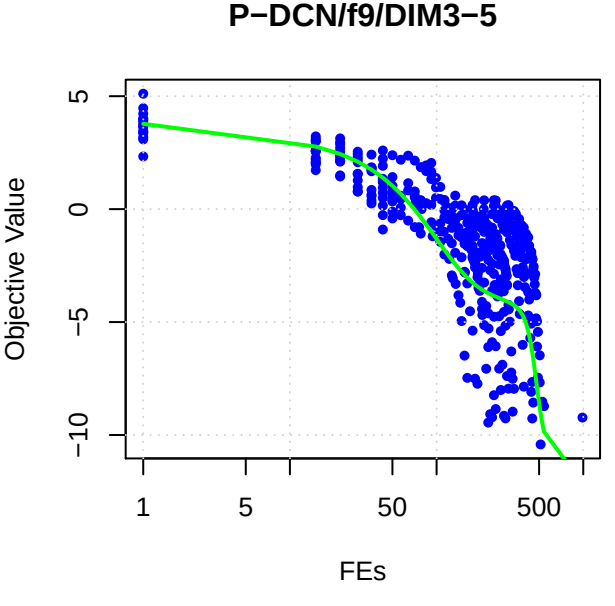
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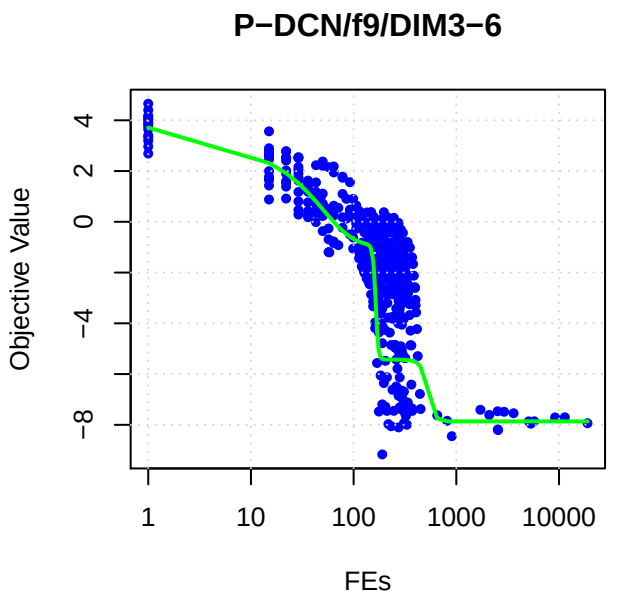
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Objective Value
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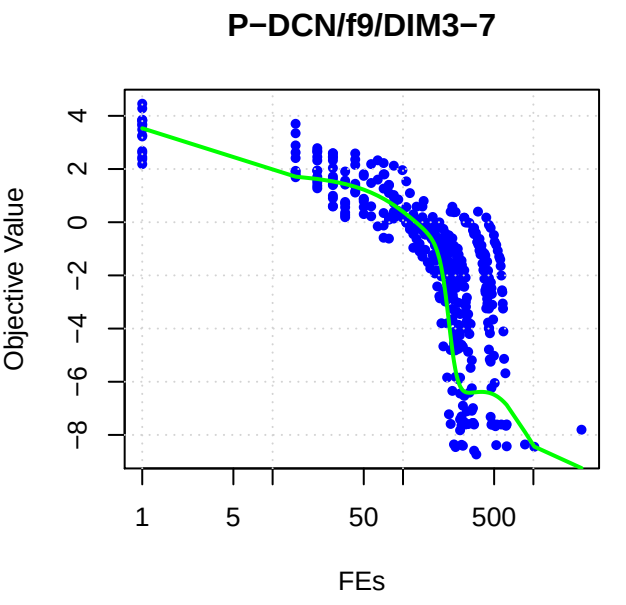
10000
FEs


P−DCN/f9/DIM3−7
Objective Value
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−4
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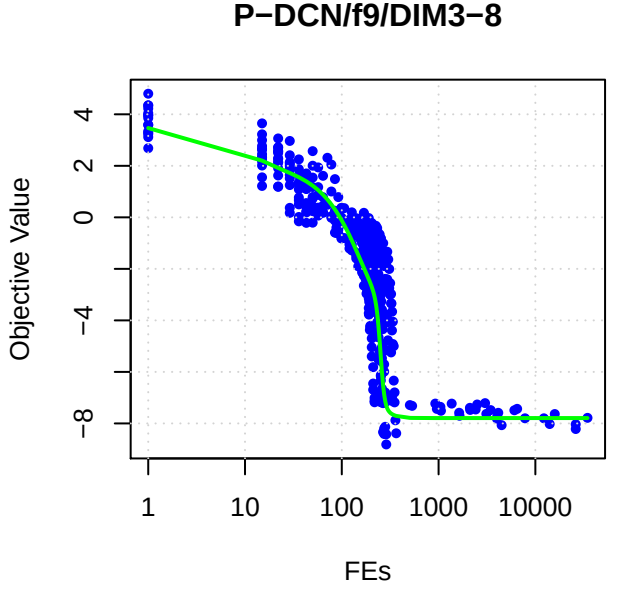
FEs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Objective Value
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1000
10000
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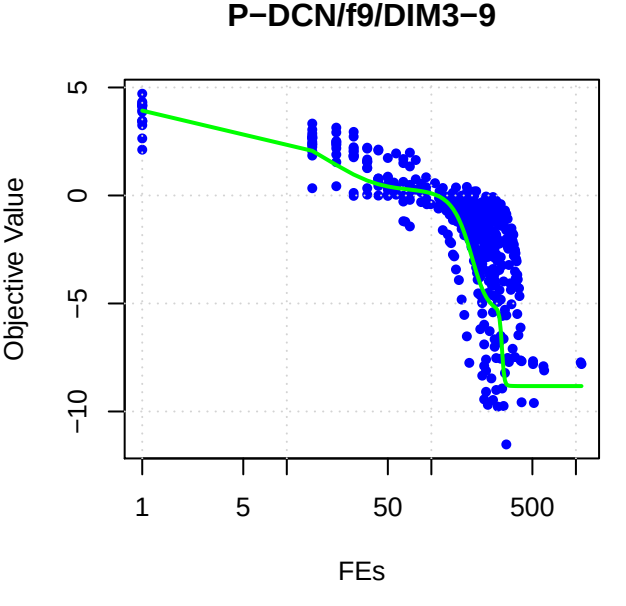
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Objective Value
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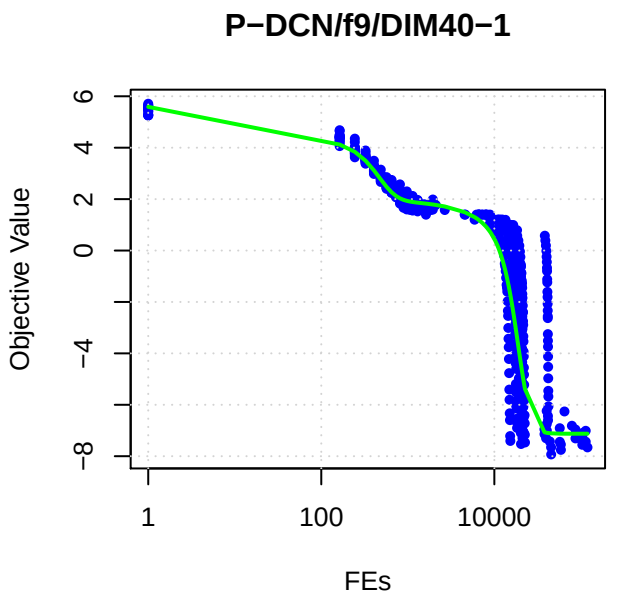
FEs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Objective Value
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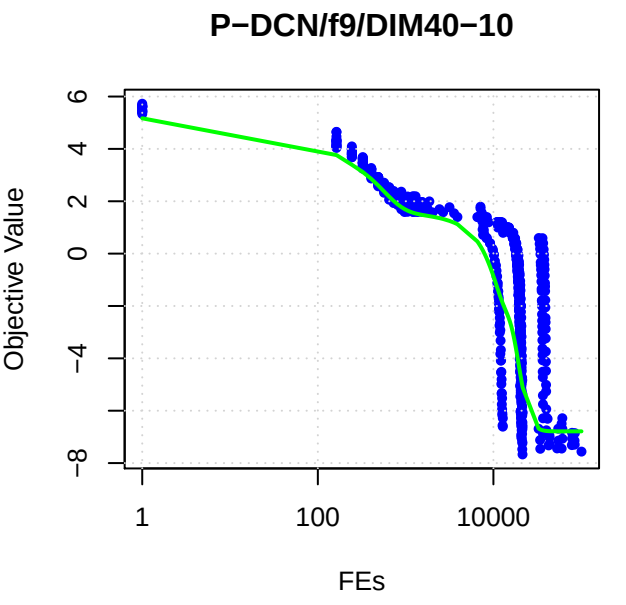
FEs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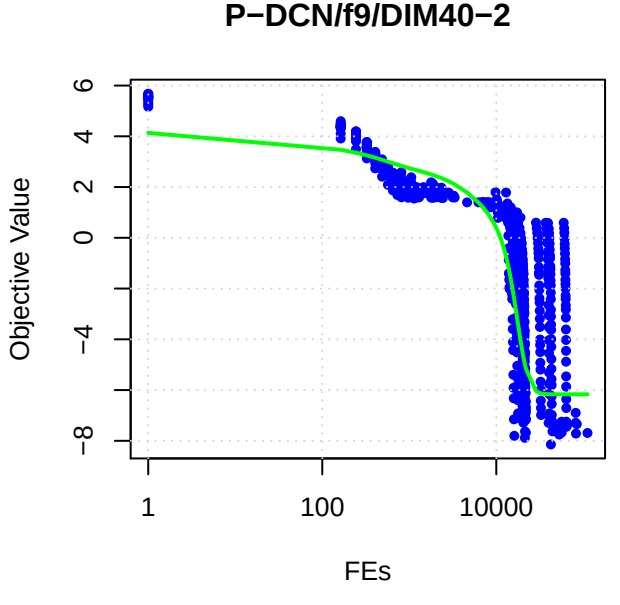
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Objective Value
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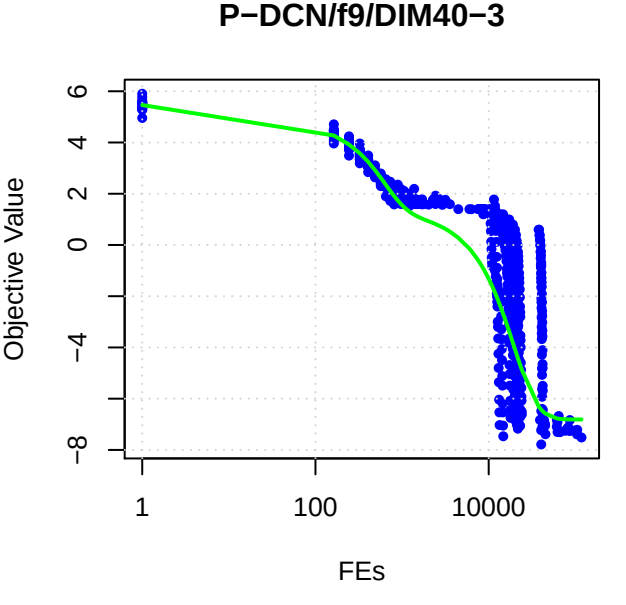
FEs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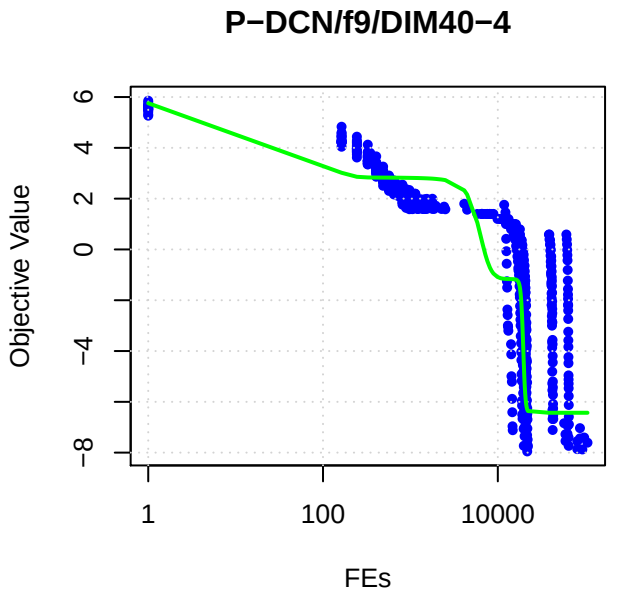
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Objective Value
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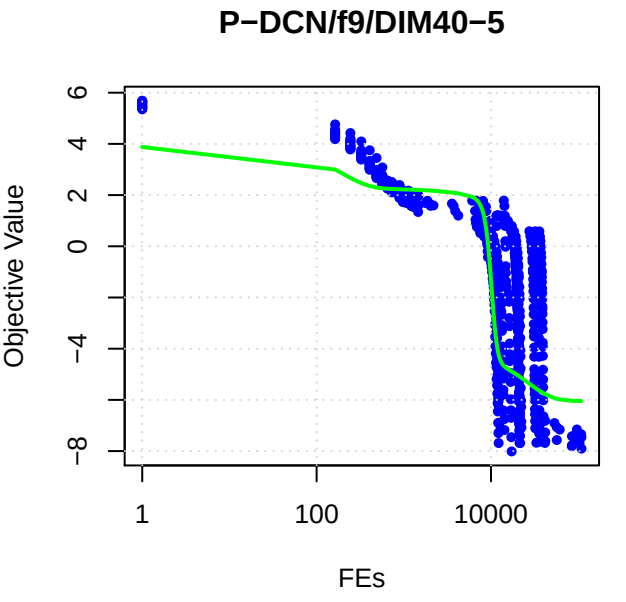
FEs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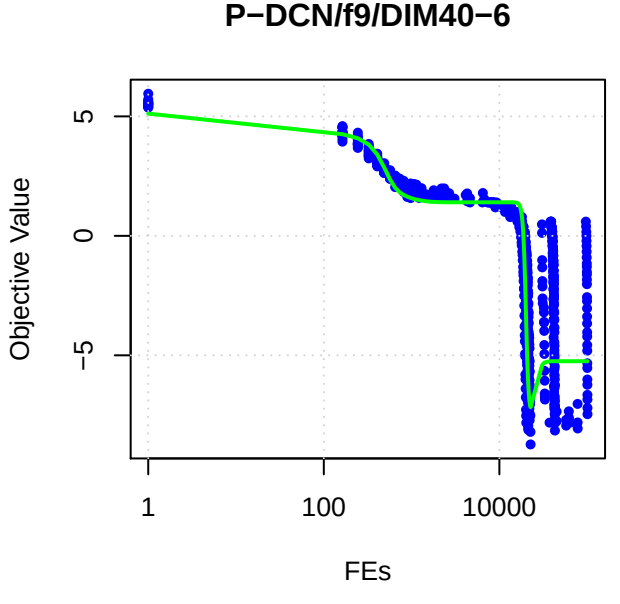
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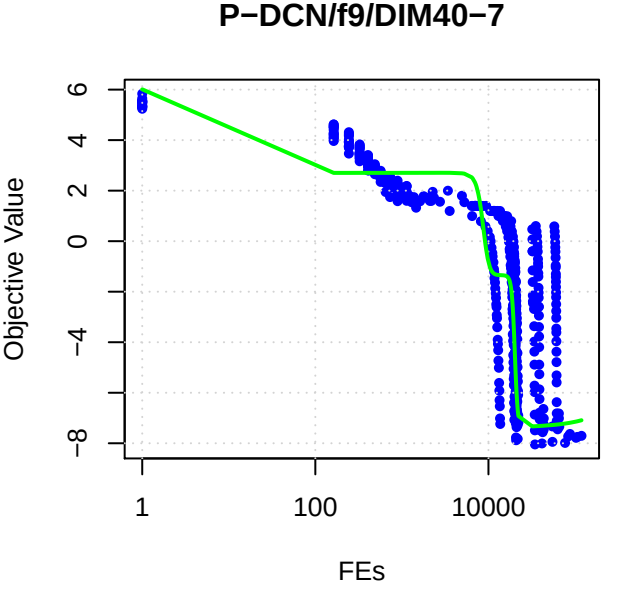
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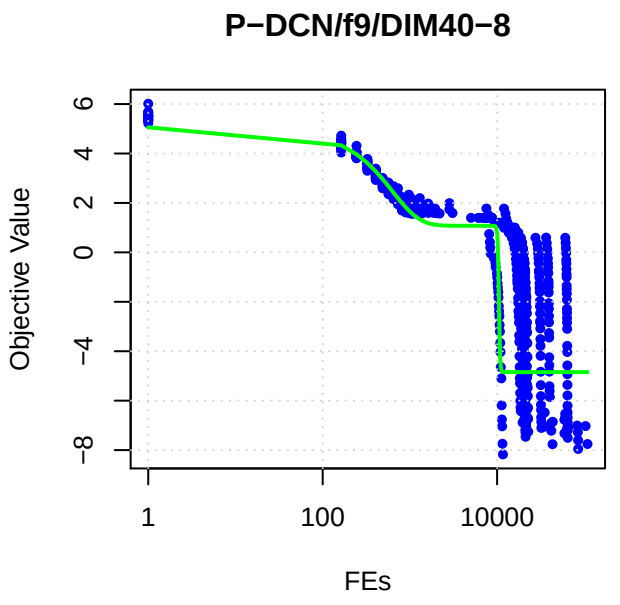
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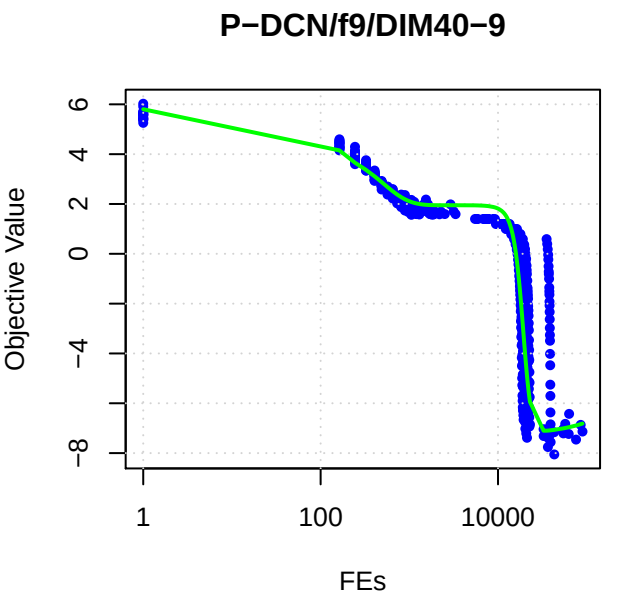
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Objective Value
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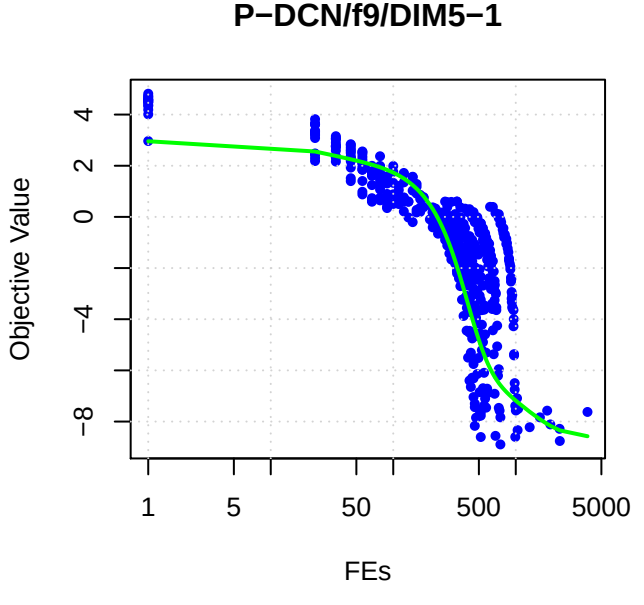
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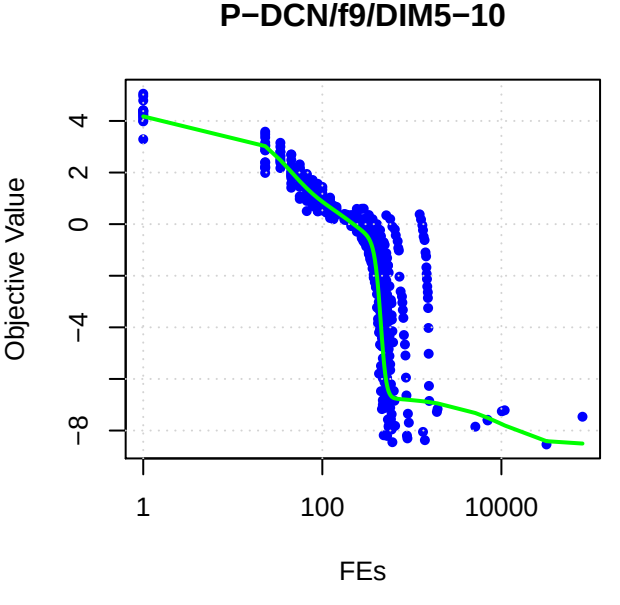
FEs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Objective Value
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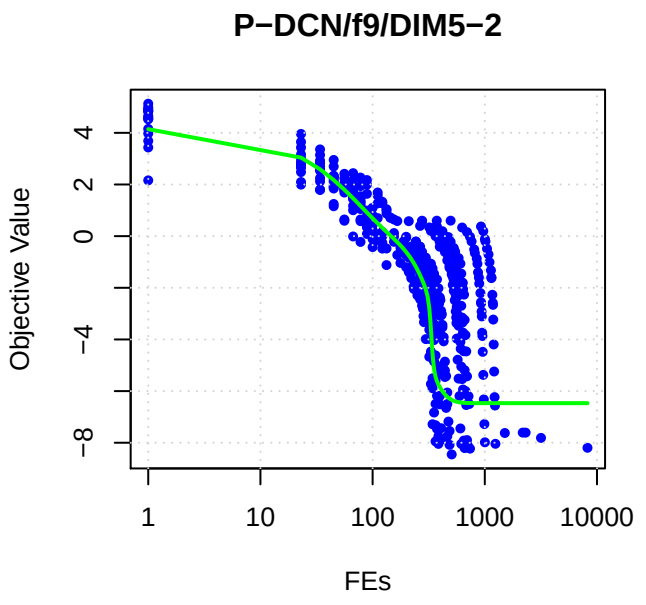
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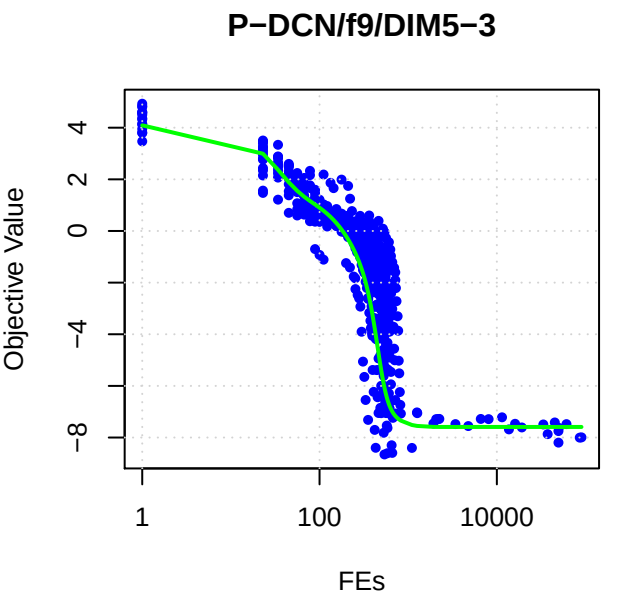
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Objective Value
FEs
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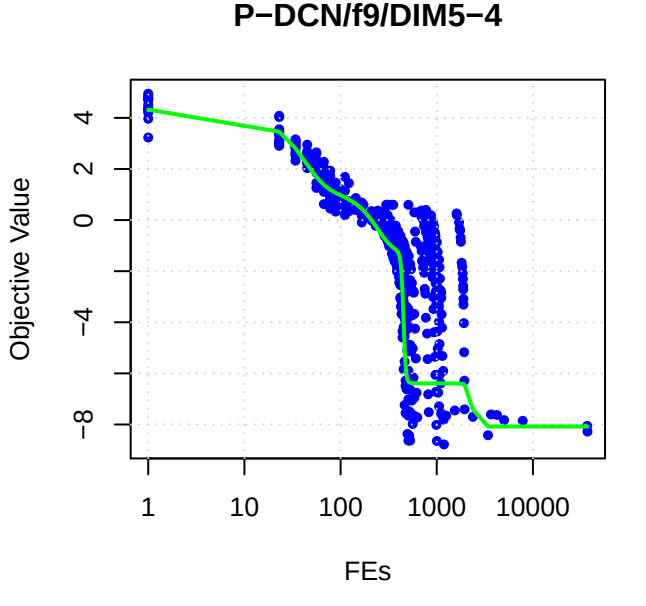
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Objective Value
FEs
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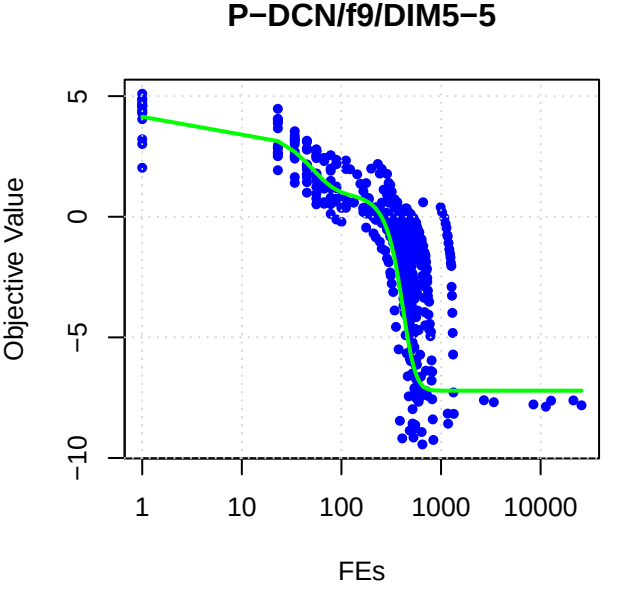
P−DCN/f9/DIM5−5
Objective Value
FEs
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0
−5
−10
1
10
100
1000
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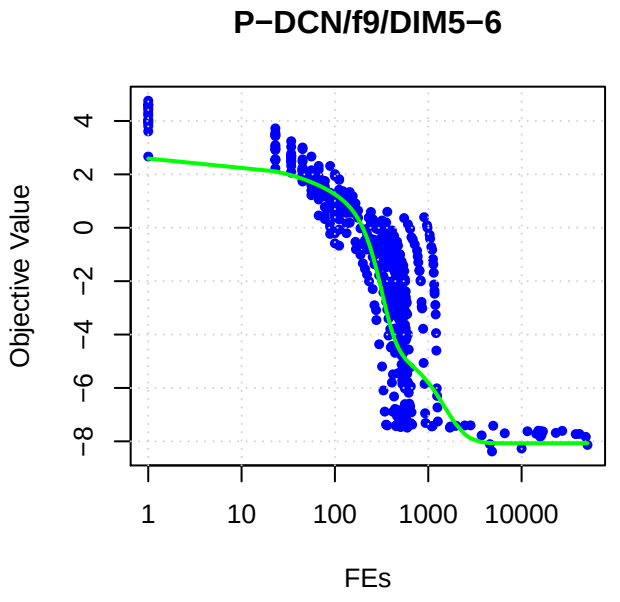
P−DCN/f9/DIM5−6
Objective Value
FEs
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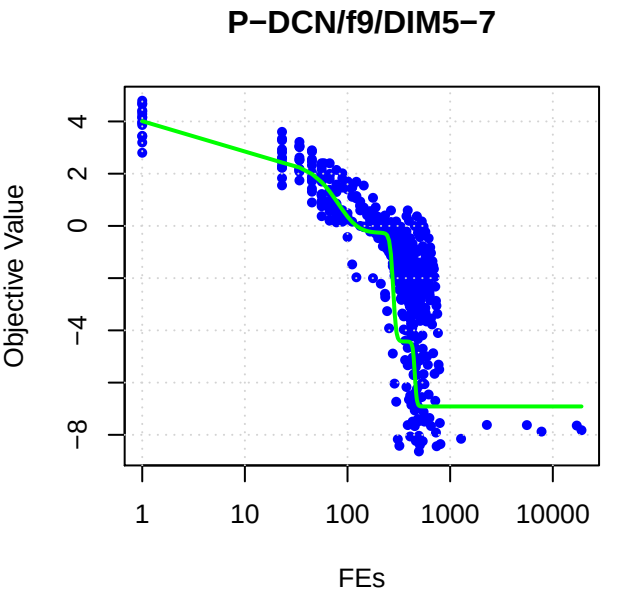
2
0
−2
−4
−6
−8
1
10
100
1000
10000


P−DCN/f9/DIM5−7
Objective Value
FEs
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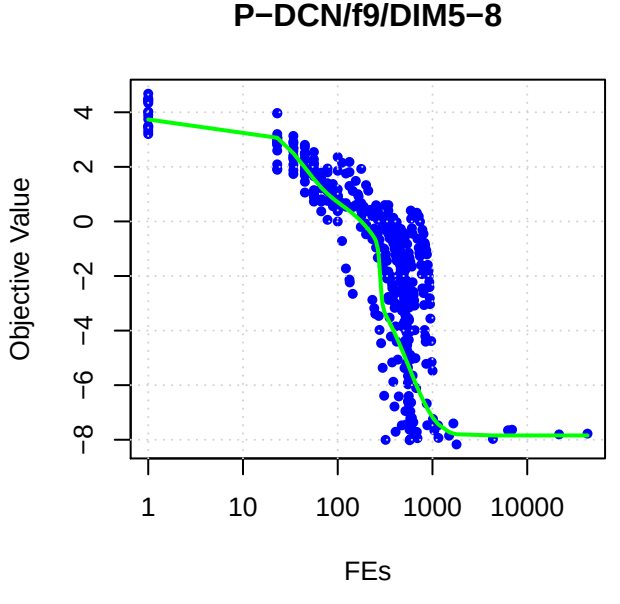
0
−4
−8
1
10
100
1000
10000


P−DCN/f9/DIM5−8
Objective Value
FEs
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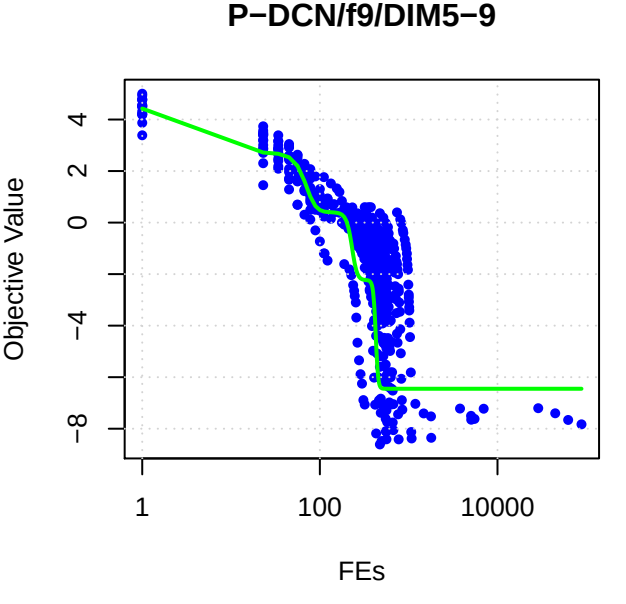
2
0
−2
−4
−6
−8
1
10
100
1000
10000


P−DCN/f9/DIM5−9
Objective Value
FEs
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2
0
−4
−8
1
100
10000