

modeFRONTIER Local Optimization

Topic: Local Search using previous designs

Approved By: Terje Rølvåg

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Date: 30.05.2013

1. When the postprocessing of a run is done, one might want to explore the best designs further. A local search can then be executed based on the previous designs generated.

From the table of best designs generated one can export these designs as an ASCII file.

1

modeFRONTIER 4.4.2 b20121214 - Project: very_last_of_the_MOGA-2_with_corrected_base_and_100_designs_with_50_DOE.prj

File Edit Project Assessment View Tools Help

Workflow Export Designs Space

Explorer Desktop Create MCDM

Designs Space (3)

- Desktop (5)
- MCDM (2)
- RSM (1)

Export DesignDB

Look in: Desktop

Recent Items

- Downloads
- Google Drive
- Master privat
- modeFrontier

Desktop

My Documents

Computer

Network

File name: Local search

Files of type: modeFRONTIER Ascii DB (*.des)

Export Cancel

ID	M	CATEGORY	Ball_joint_blend	Flange_offset	Flange_thickness	Front_bushing_blend	Hydrobushing_blend	Swing_arm_flange_thickness	Thickness_main_plate
495	✓		1.7300E1	1.0000E-2	6.9000E0	1.8000E1	1.6030E1	1.6000E1	9.9000E-1
510	✓		1.7400E1	1.0000E-2	7.0000E0	1.8000E1	1.6000E1	1.6000E1	1.7000E-1
518	✓		1.7400E1	4.0000E-2	7.0000E0	1.8000E1	1.6000E1	1.6000E1	9.0000E-2
561	✓		1.7500E1	1.0000E-2	7.0000E0	1.8100E1	1.6020E1	1.6000E1	2.1000E-1
682	✓						1.6110E1	1.6000E1	1.0000E0
690	✓						1.6110E1	1.6000E1	1.0000E0
696	✓						1.6050E1	1.6000E1	1.0000E0
701	✓						1.6010E1	1.6000E1	1.0000E0
706	✓						1.6050E1	1.6000E1	1.0000E0
724	✓						1.6000E1	1.6000E1	2.1000E-1
774	✓						1.6020E1	1.6000E1	1.0000E0
783	✓						1.6000E1	1.6000E1	7.6000E-1
807	✓						1.6000E1	1.6000E1	1.0000E0
813	✓						1.7100E1	1.6000E1	2.0000E-2
816	✓						1.6000E1	1.6000E1	1.0000E0
825	✓						1.6460E1	1.6000E1	1.0000E-2
833	✓						1.6000E1	1.6000E1	6.4000E-1
838	✓						1.6000E1	1.6000E1	1.8000E-1
841	✓						1.6020E1	1.6000E1	9.0000E-1
898	✓						1.6010E1	1.6000E1	1.0000E0
904	✓						1.6000E1	1.6000E1	9.7000E-1
925	✓						1.6000E1	1.6000E1	8.6000E-1
957	✓						1.6000E1	1.6000E1	9.1000E-1
967	✓						1.6000E1	1.6000E1	3.9000E-1
978	✓						1.6010E1	1.6000E1	8.8000E-1
984	✓						1.6010E1	1.6000E1	9.6000E-1
997	✓						1.6000E1	1.6000E1	7.8000E-1

 suplight

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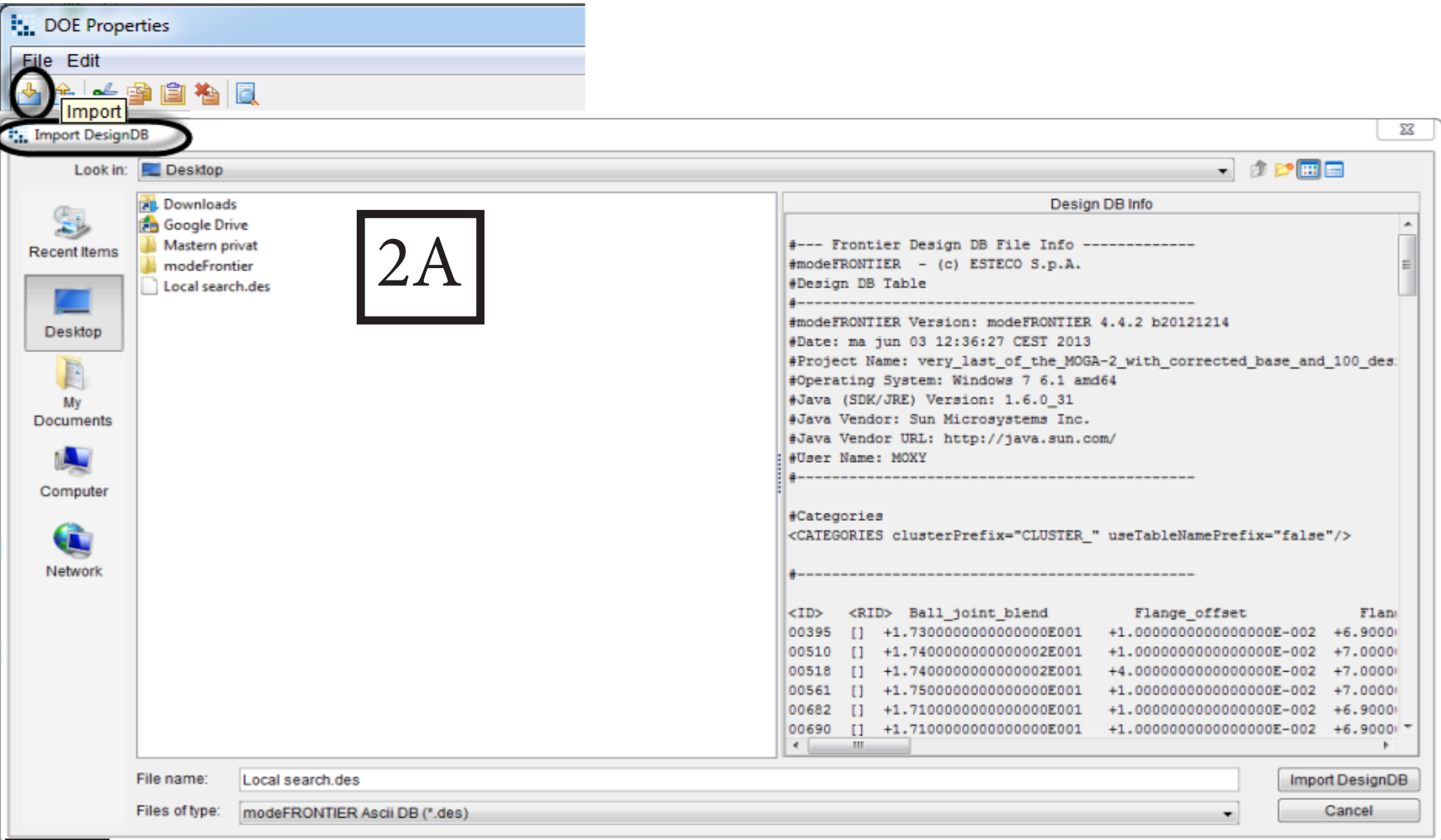
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- 2. A. The exported designs can now be imported to the DOE scheduler.
- 2. B. The imported designs are now listed in the DOE scheduler.
- 3. The local search can then be executed with these designs and a desired scheduler algorithm. In this particular case Hybrid was used because it had performed well on previous runs.



2B

		Ball_joint_blend	Flange_offset	Flange_thickness	Front_bushing_blend	Hydrobushing_blend	Swing_arm_flange_thickness	Thickness_main_plate
0	<input checked="" type="checkbox"/>	1.7300E1	1.0000E-2	6.9000E0	1.8000E1	1.6030E1	1.6000E1	9.9000E-1
1	<input checked="" type="checkbox"/>	1.7400E1	1.0000E-2	7.0000E0	1.8000E1	1.6000E1	1.6000E1	1.7000E-1
2	<input checked="" type="checkbox"/>	1.7400E1	4.0000E-2	7.0000E0	1.8000E1	1.6000E1	1.6000E1	9.0000E-2
3	<input checked="" type="checkbox"/>	1.7500E1	1.0000E-2	7.0000E0	1.8100E1	1.6020E1	1.6000E1	2.1000E-1
4	<input checked="" type="checkbox"/>	1.7100E1	1.0000E-2	6.9000E0	1.8050E1	1.6110E1	1.6000E1	1.0000E0
5	<input checked="" type="checkbox"/>	1.7100E1	1.0000E-2	6.9000E0	1.8000E1	1.6110E1	1.6000E1	1.0000E0
6	<input checked="" type="checkbox"/>	1.7200E1	1.0000E-2	6.9000E0	1.8100E1	1.6050E1	1.6000E1	1.0000E0
7	<input checked="" type="checkbox"/>	1.7100E1	6.0000E-2	6.9000E0	1.8050E1	1.6010E1	1.6000E1	1.0000E0
8	<input checked="" type="checkbox"/>	1.7200E1	1.0000E-2	6.9000E0	1.8050E1	1.6050E1	1.6000E1	1.0000E0

