

Coupling: OptiY – Dymola

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Interface **ASCII-File**
Experiment **OptiY\CAE Integration\Dymola\test.opy**

Generate files in Dymola

Compiling the Dymola model generates 3 important files: the input-file (dsin.txt), the output-file (dsres.txt) the the exe-file (dymosim.exe)

Parameters in dsin.txt

```
double initialValue(8,6)
-1 1 0 0 2 0 #_dummy
0 0 0 0 3 0 #_derdummy
-1 5.010000000000000E+000 0 0 1 312 # x1
-1 2.020000000000000E+000 0 0 1 312 # x2
-1 5.050000000000000E+000 0 0 1 312 # w
```

Results in dsres.txt

```
float data_1(2,7)
0 1.9179960E+000 1.7490625E+000 5.0500002E+000 4.9333963E+000
6.7975824E-003 4.9677243E+000
4.0000001E-001 1.9179960E+000 1.7490625E+000 5.0500002E+000 4.9333963E+000
6.7975824E-003 4.9677243E+000
```

Setting in OptiY

The generated files are embedded in OptiY as ASCII-Input- and Output-File. Extern Script (DOS-Batch) performing the simulation contains following codes:

```
dymosim -s
```