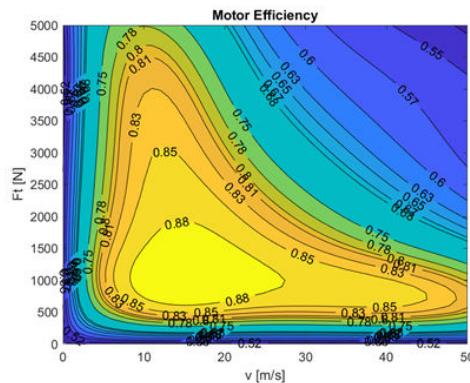
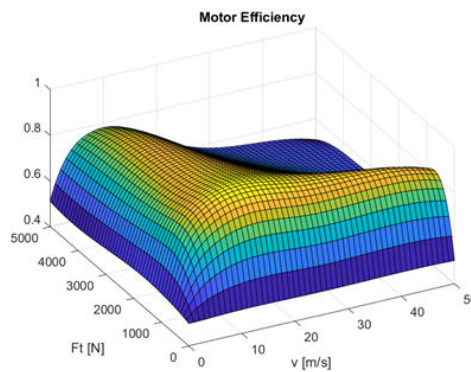


FORCESPRO 6.1.0 Release

FORCESPRO

New 2D Spline Function

- Support for 2D splines: This FORCESPRO version comes with new utility functions: Now, you can set up smooth problem formulations involving interpolation of two-dimensional spline functions. These capabilities are particularly useful for MPC problems including nonlinear efficiency maps, e.g. motor or EV battery efficiency. [Here](#), you can find a [2D spline example](#).



- Support for CasADi MX variables: FORCESPRO now supports both SX and MX CasADi variables. The introduction of CasADi MX variable

support enables more computationally efficient matrix-vector operations, allowing for symbolic expressions that consist of matrix-valued operations. This boosts efficiency for very large expressions that are naturally matrix-valued.

- **Extended dump tool to low-level formulations:** In addition to supporting high-level formulation, FORCESPRO now also supports the dump tool for low-level problem formulations. You can dump the low-level formulation and runtime (parametric) data of an optimization problem as a means to reproduce the exact same solver without the need to keep copies of other files. Such capabilities are particularly helpful in debugging, (re-)testing and support requests. Furthermore, the new release includes additional Python scripts for debugging (stages2qcqp).
- **Improved performance of solver generation server:** To ensure a high-quality service and performance of the FORCESPRO solver generation server during peak usage times, the bandwidth of web compiler services has been significantly improved by auto-scaling web compiler technology.

You can find a list of all algorithmic improvements in the [Release Notes of FORCESPRO](#).

Existing users can easily switch to the new version by using our [auto-update function](#).

Alternatively, you can use the new server at: <https://forces-6-1-0.embotech.com>

Please note:

- **From 6.1.0 onwards**, by default all dumps are done symbolically for the MATLAB® client as well.
- Release 4.4.0 will go offline as of May 31, 2023. Please contact support@embotech.com in case you want to continue working with this version.

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