HOW TO FIT AN ANALYSIS IN A FEW HUNDRED MBs

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ABSTRACT –
The need for storage space has increased significantly in the last years of simulation. The model size rises steadily while the number of versions examined has reached remarkably high levels. Engineering companies need to manage results files of several gigabytes and keep the history of model versions while the network load and the file system size place tight limits. The complexity of the data format does not allow conventional compression techniques to result in satisfactory solutions. To this end, META, the post processor of BETA Simulation Solutions, has developed a tool for the geometry and results compression of finite element and computational fluid dynamics models. The tool offers full control of the data accuracy stored and advanced parameterization per model component/part and per result. Furthermore, a light representation of the model can be stored additionally with the ability to effortlessly interchange between the original and the light representation on component/part level. This way, large models can be handled easily addressing the need for short loading times and efficient collaboration in global environments.