

# Feedback on The Utilization of MUMPS in ESI's products

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As a provider of virtual product engineering solutions to support industrial innovation, ESI aims to give customers across many industry sectors the ability to virtually manufacture and assemble, part by part, complete and physically realistic virtual products that can be tested under normal and exceptional operating conditions. ESI's solutions are based on an integrated suite of coherent, industry-oriented applications that often need to solve large and sparse linear systems of equations using direct methods.

The MUMPS software library is thus used for this purpose in various ESI's applications. Over the past five years or so this has generated a few exchanges with the MUMPS team. In this talk, we report on the positive and fruitful outcomes of this collaboration and describe some aspects of the utilization of the MUMPS software library in various ESI products.