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More on that in a later blog, to be called > Welding simulation using Abaqus - Part 2 .

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Weld distortion is the
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in welding applications

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and many techniques have been developed over time to mitigate distortion or in some case achieve zero distortion. Simple techniques like tack welding and fixturing can now be optimized using welding models that reliably predict distortion. Furthermore, simulation and modeling enables the designer to optimize complex methods ...

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A simulation of the hydroforming process of a 4 mm thick tube was investigated in Abaqus, to assess a specific high strength steel. The tube was hydroformed against a rigid die, to form a metal bellows joint. Abaqus Explicit was used ($t=0.08$ sec). Model Details. Quarter symmetry was used in

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the model.

Metal tube hydroforming process and forming limit diagrams ...

There are many challenges involved when creating simulation-ready models from image-based data such as MRI and CT that can be used in solvers like Abaqus. The time spent on manual segmentation tasks,

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and the quality of exported meshes to Abaqus, can eat up valuable workflow time, whether you're using medical, materials, or industrial data.

Solving Image-Based Modeling Challenges with Simpleware ...

Paris, France and Providence, R.I., USA, April 10, 2009 - Dassault Systems (DS) (Euronext Paris:

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#13065, DSY.PA), a world leader in 3D and Product Lifecycle Management (PLM) solutions, today announced the availability of Verity® for Abaqus, from the DS SIMULIA brand, for simulating realistic structural stress in welded joints and other connections.

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