

## HPC solutions for Ship Designing @ Fincantieri

*Thursday, February 25, 2016 2:45 PM (15 minutes)*

Fincantieri is one of the leading ship design company in the world. In 2014 we deployed a HPC cluster that is mainly used to perform Computational Fluid Dynamics and Finite Element Analysis calculations. We equipped our cluster with a Citrix virtualization solution that allows our users to perform their pre-processing activities directly on a few reserved nodes on the cluster. CFD calculations are usually performed to optimize the hull, the appendages and the propellers. FEM calculations are performed to assess the behavior of the Ship internal structure and its response to vibrations.

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**Session Classification:** HPC in industry: some regional examples