

Reduction of Simulation Time of Electromagnetic Finite Element Analysis using Virtual Hard Drives

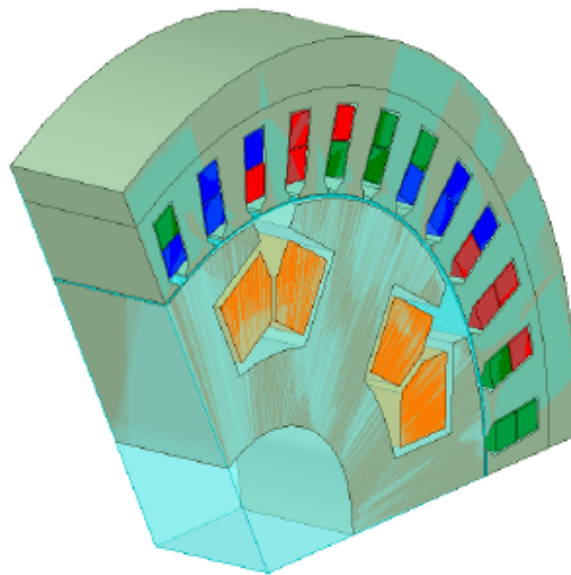
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Abstract—This paper is about the reduction of simulation time for electromagnetic Finite Element (FE) simulations by using RAM-disks, which are virtual hard drives simulated on the working memory. Tests, documented in this paper, have shown that due to the high transfer rates the simulation time can be reduced up to 50% in some cases. Further analysis is encouraged to access for what use cases one can benefit of the virtual hard drive and why some use cases are indifferent to its use.

Keywords—RAM-disk; virtual hard drive; simulation time reduction; development cost reduction; machine simulation, ANSYS Maxwell



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