

## Pushing the Boundaries of Innovation

### ANSYS R18 and the Power of HPC

Thursday, 6 April 2017 | 1:00 pm - 5:30 pm

The Matrix@Biopolis  
30 Biopolis Street 138671

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#### Introduction

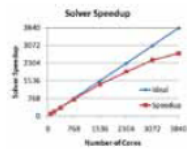
With products getting more complex and the race to develop and manufacture gets tighter, companies are looking for new ways and means to push the boundaries of innovation. ANSYS's multiphysics simulation solution coupled with a robust design optimization and high performance computing platform allows companies such as Cummins, Rolls Royce, EPTA, Keelwit Technology, Infineon FMC Technologies and more, achieve faster time to market and receive high-fidelity insight to their product design.

#### Seminar Objectives

Join us in this half-day seminar to find out how the ANSYS HPC platform has allowed companies to stay competitive as we share the success stories and best practices of companies worldwide followed by a sharing of what's new in ANSYS Release 18.0.

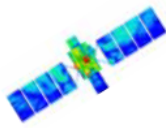
## ANSYS HPC

### Outstanding Scaling



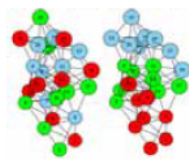
The largest CFD benchmarks from ANSYS yield nearly linear scaling up to 3,072 processors, reducing turnaround time from hours or days to just minutes.

### Domain Decomposition



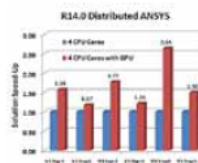
Domain decomposition solved the helix array on a spacecraft with other antennas nearby. This large problem used 1.3M tetrahedra, 25M unknowns and 35 computer cores.

### Architecture-Aware Partitioning



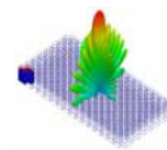
Partitioning in ANSYS fluid dynamics technology enables faster solutions by minimizing network traffic.

### GPU Acceleration



GPU computing supports distributed memory structural solutions in the latest ANSYS software, yielding single-machine speed increases of up to two times over a range of benchmark problems.

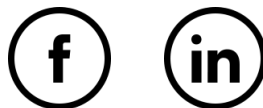
### Distributed Memory Parallel Processing



Distributed memory enabled efficient electromagnetic simulation of this 256-element skewed waveguide array using ANSYS electromagnetics tools.

## Seminar Agenda

Time	Agenda
1.00 pm - 1:30 pm	Registration
1:30 pm - 2:00 pm	Bring Your company to The Next Level with ANSYS Simulation
2.00 pm - 2.20 pm	How ASPIRE1 can power users
2.20 pm - 2.40 pm	Accelerating ANSYS Simulations with NVIDIA GPUs
2.40 pm - 3.20 pm	Tea Break
3.20 pm - 5.30 pm	ANSYS R18 Update Track 1: Mechanical Simulation Track 2: Fluid Simulation Track 3: Electromagnetics Simulation



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