

## Trends in Computer Technologies

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Abstract: This talk deals more specifically with the interplay between compute systems and scientific computations design. Recent trends in processor technology and architecture offer new challenges to compute and data intensive applications. At the processor level the Industry is moving to multicore chips; FPGA's and accelerators are more common; and advancement in density and interconnect allow scales not possible before. Petascale computing is arriving. These trends will be presented and explained, while highlighting the implications to the system software and applications design and implementation.