



# Terms and Issues

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**Parallel Simulations (PDES)  $\neq$  Parallel Computing (HPC)**

**Common:**

divide work among processors to compute faster

**Distinct:**

HPC parallel computing formulated in terms of  
**static** spatial/temporal decompositions  
(FORTRAN loops, blocks; PDEs - mesh decompositions;...)

PDES formulated in terms of **dynamic** SYNCHRONIZATION  
of multiple serial schedulers by event traffic