## Sharing an SMP

- Having many cores available makes everyone think that they can use them to solve other problems ("no one would use all of them all of the time").
- However, compute-bound scientific calculations are often *written* as if all compute resources are owned by the application.
- Such static scheduling leads to performance loss
- Pure dynamic scheduling adds overhead, but is better
- · Careful mixed strategies are even better
- Recent results give 10-16% performance improvements on large, scalable systems
- Thanks to Vivek Kale







