Ways of Parallelizing SAT/SMT/MC

- Application Level Parallelism
 - multiple Problems (Model+Spec), e.g. SAGE
 - embarrassingly Parallelism
- Portfolio / Engine Level Parallelism
 - different Strategies / configurations / algorithms
 - schedule / synergy / sharing
- Algorithmic Parallelism
 - systems: Cloud / Cluster / Multi-Core / GPU
 - e.g. guiding path, cube & conquer (in SMT/SAT)



Parallelizing SAT/SMT/MC on the Cloud

- Application and Portfolio Level easily possible.
- Control Flow Splitting
 - splitting search space is hard
 - needs to avoid repeating hard sub-problems.
 - how to share learned information?
 - current symbolic algorithms
 - in general memory bound
 - complex control flow
- Data Flow Oriented Symbolic Algorithms?
- Cloud Model Checking as a Service?
- Security and Business Model issues?

