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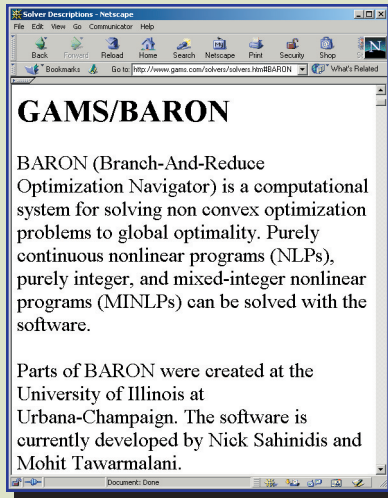
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## Global Optimization Solver BARON



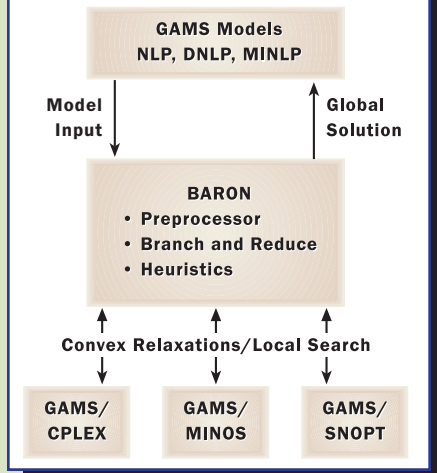
High performance and reliability of solvers come as a result of technological and theoretical developments in solution technology and modeling systems.

BARON combines constraint propagation, interval analysis, and duality for efficient range reduction while rigorous relaxations are constructed by enlarging the feasible region and/or underestimating the objective function.

### Important Application Areas for Global Optimization:

- Reliability
- Parameter Estimation
- Engineering Design
- Economics
- Finance
- Supply Chain Design and Operation
- Molecular Design and Bioinformatics

### Branch And Reduce Optimization Navigator



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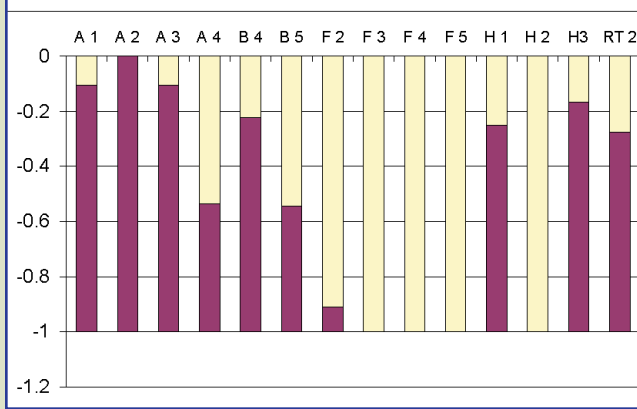
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### LOCAL VERSUS BARON FOR POOLING PROBLEMS



The darker area of each box is proportional to the difference between the global solution and the best local solution obtained using two local solvers for 14 pooling problems from the literature.