

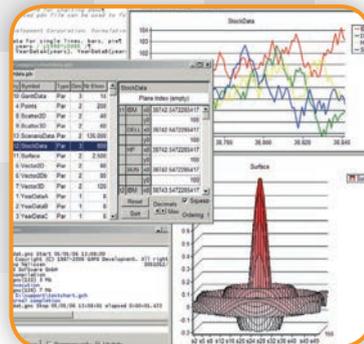
## GENERAL ALGEBRAIC MODELING SYSTEM

### High-Level Modeling

The General Algebraic Modeling System (GAMS) is a high-level modeling system for mathematical programming problems. GAMS is tailored for complex, large-scale modeling applications, and allows you to build large maintainable models that can be adapted quickly to new situations. Models are fully portable from one computer platform to another.

### State-of-the-Art Solvers

GAMS incorporates all major commercial and academic state-of-the-art solution technologies for a broad range of problem types.



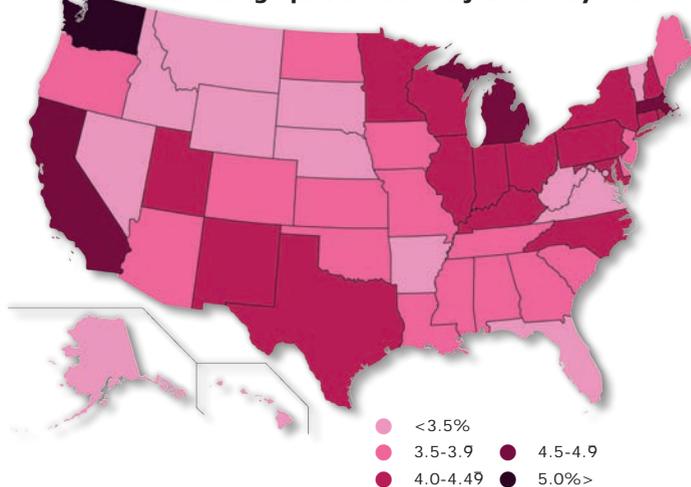
GAMS Integrated Developer Environment for editing, debugging, solving models, and viewing data.

### Effects of Proposed Trade Policies on Employment

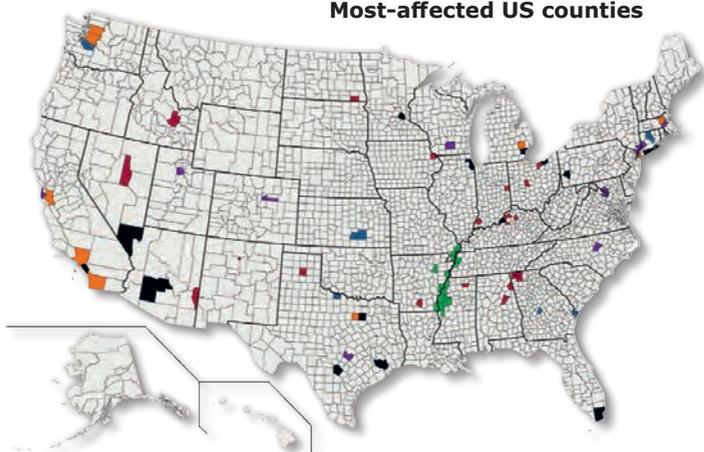
The Peterson Institute for International Economics (PIIE) presented the results of a pre-election analysis of the economic implications of the proposed trade policies of the two presidential candidates: Clinton and Trump. The analysis traces the impacts of major changes in trade policy on macro aggregates: consumption, investment, government expenditure, and international trade. The results indicate that any shock to US international trade has serious effects on employment, including many sectors indirectly linked to exporting industries – when workers lose their jobs, they no longer go to restaurants.



Percentage private sector job loss by state



Most-affected US counties



The modeling framework contained several components, including a GAMS input-output model, a Python module to disaggregate the results to the state and county level, and a GIS platform to display the results.

For further information please visit: <https://goo.gl/2ghNx5>

- High percentage job loss (full trade war scenario)
- High job loss, business services sector (asymmetric trade war scenario)
- High absolute job loss (full trade war scenario)
- High job loss, soybeans sector (asymmetric trade war scenario)
- High job loss, aerospace sector (asymmetric trade war scenario)
- High job loss in specific sector (asymmetric trade war scenario) and either percentage or absolute job loss (full trade war scenario)