Inforum Software:
2009 Developments

September 9, 2009

Ronald L. Horst

Ronald.Horst@gmail.com

www.Inforum.umd.edu

Installing Software from CD

1. BACK UP YOUR WORK

   ❖ C:\PDG

   ❖ C:\AMI

   ❖ C:\TINY

2. Run Setup.exe on the CD

3. To compile the models on the CD, you must install the BCC compiler.

   ❖ Run C:\PDG\Compiler-Install\freecommandLinetools.exe

Inforum Software

New Developments at Inforum

❖ The Inforum Web Site

❖ *G7* Extensions and Improvements

❖ Running AMI and Tiny Models from the *G7* Menu

❖ *Compare* Extensions
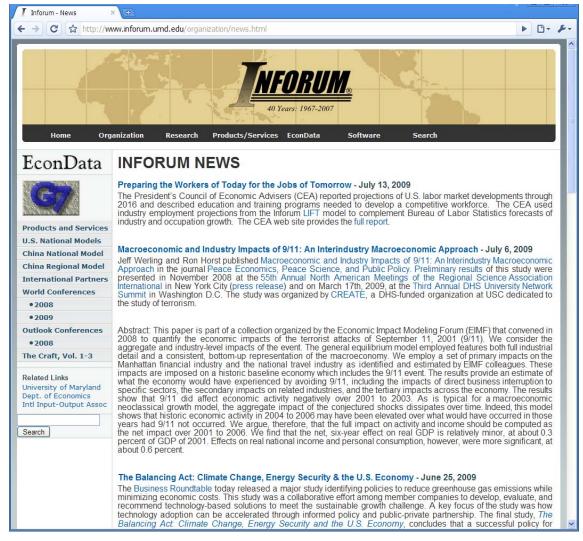
❖ Running Compare from the *G7* Menu

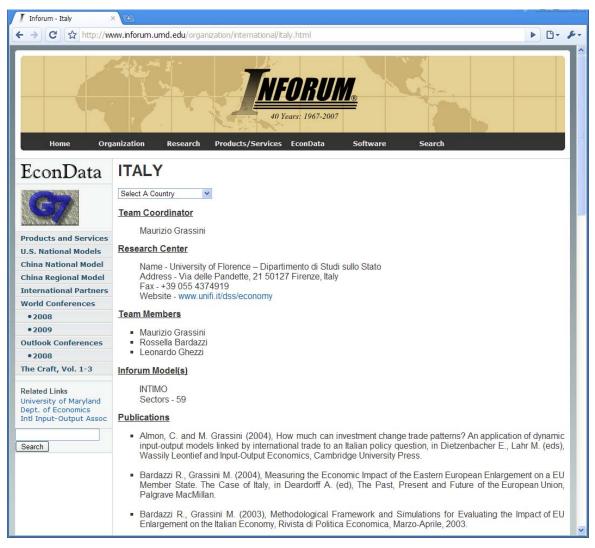❖ Demonstrations

Web Site Development

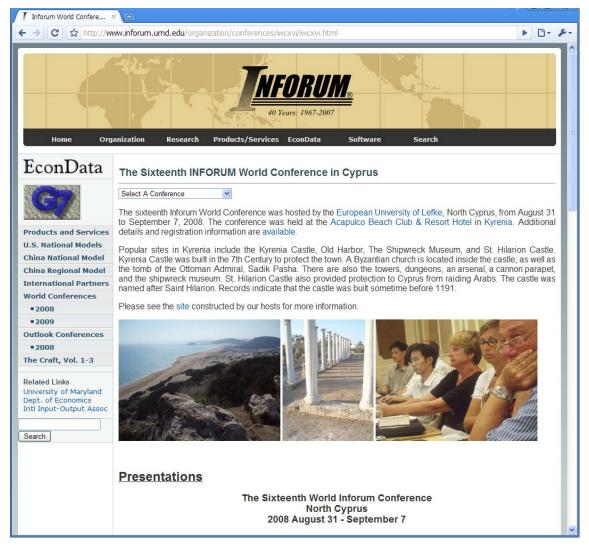# Web Site Development: News and Research

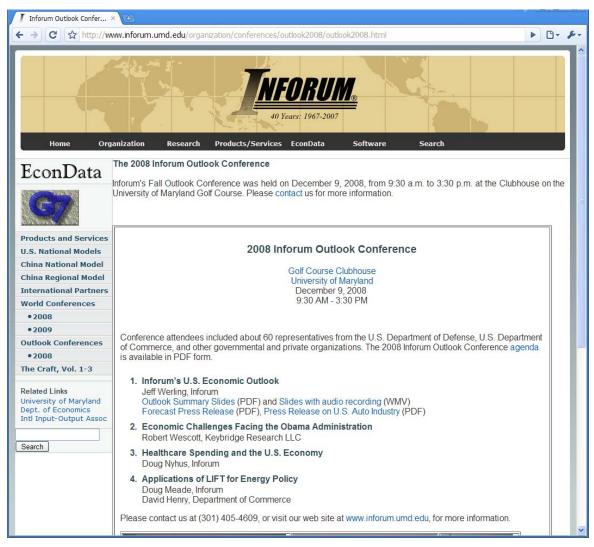# Web Site Development: International Partners

Web Site Development:
International Conferences
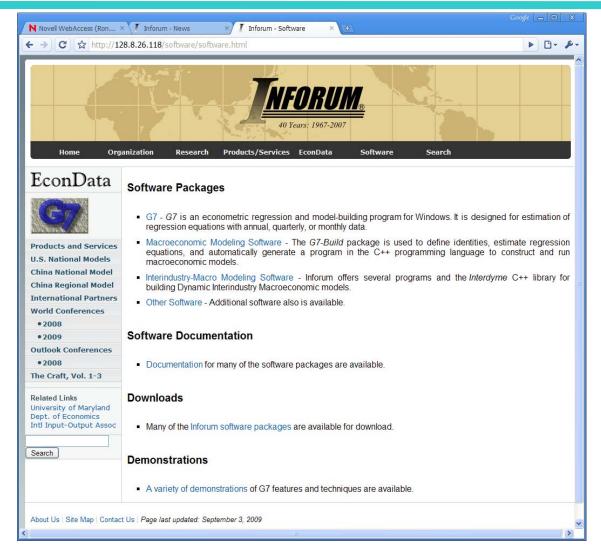
Web Site Development: Outlook Conferences

Web Site Development: EconData

Web Site Development: Software

G7 Development: An Introduction

- ## What is *G7*? A program to
  - Build and manage data banks
  - Estimate econometric equations
  - Build dynamic economic models
  - Run economic models
  - View data and economic forecasts with tables and graphs

- ## *G7* on the Web:
  - Download program and documentation
  - Download companion software and documentation
  - Download the AMI macro model
  - Demonstration routines

G7 Development: Summary

Minor Improvements
- Many minor adjustments to the interface
  – To make *G7* more pleasant to use
  – To speed common operations
  – Improved font specification
- Small extensions to existing tools
- Bug fixes

Significant Extensions
- Improved Excel interface: Create new documents
- If-Else Routines: Evaluate data bank values
- Improved interface for running models
- Improved interface for building tables

INFORUM
40 Years: 1967-2007

G7 Development: New Features

- **xl create workbook [<filename>]**
- **xl save [<filename>]**

- **xl create worksheet [<name>]**
- **xl name worksheet <sheetname>**

- **xl column width <column> <width>**

- **if(eval(<series> , <date>) …){ … }**

- **listnames [-srgv] <w | a> [wildcard]**

INFORUM
40 Years: 1967-2007

G7 Development: Improved Grouping

- **Improved flexibility and reliability**
  - **Numerical groups: increasing, decreasing, repeating**
  - **Dynamic and named groups**
  - **Excel column letters**

Examples

```
do{f y%1=y%1+a.y%2 }(1 1 1 2 3 3 )(1 4 5 2 3 6) m
group Almon
   1-75
do{ f iterate%1 = %1 } ( :Almon )
group 75-100
do{ f iterate%1 = %1 } ( : )
do{ xl read %1 2 down x%1 2000 2008 } ( A-AZ )
```
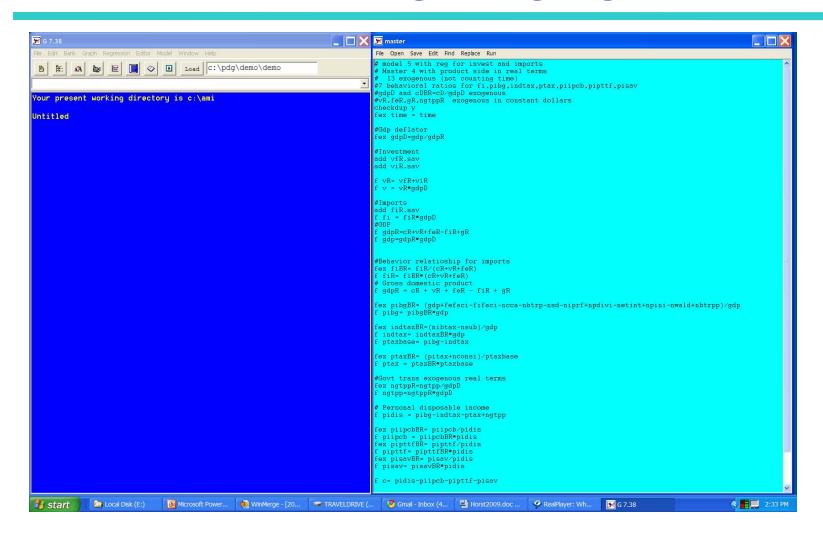
G7 Development: Graphical Interface

- Improvements to *G7* and Editor Menus
- Improved Font Selection: *G7*, Editor, and Graphs
- Improved Editor
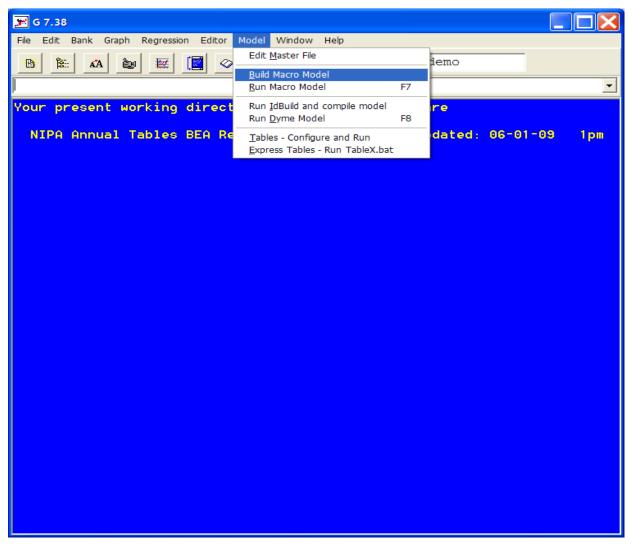- New Data Bank Assignment interface
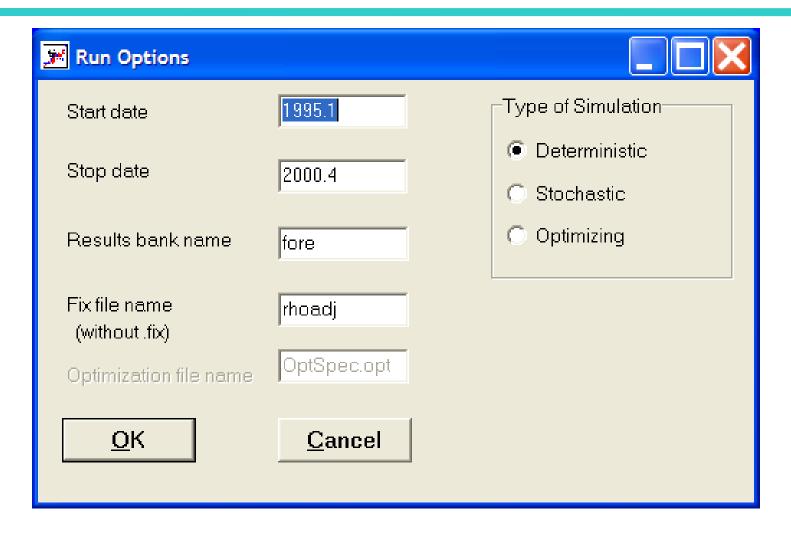
G7 and Macro Modeling: Designing the Model

G7 and Macro Modeling: Building the Model

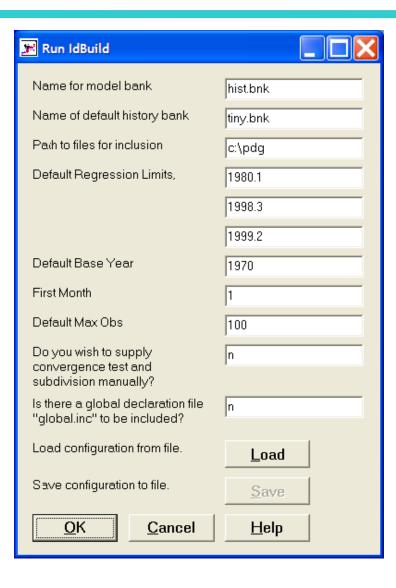# *G7* and Macro Modeling: Running the Model

G7 and Interindustry-Macro Modeling: Designing the Model

```
master

File  Open  Save  Edit  Find  Replace  Run

# Master File for TINY
# isvector pce
# iadd pce.sav
# isvector clear
iadd invtot.sav
iadd account.sav
iadd pseudo.sav
end
```

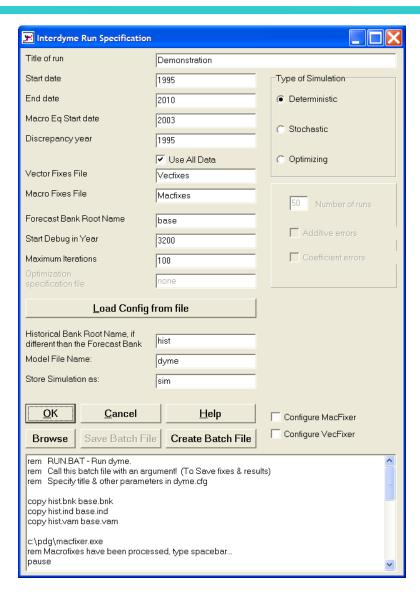# *G7* and Interindustry-Macro Modeling: IdBuild

G7 and Interindustry-Macro Modeling: Running InterDyme Models

Compare Extensions

Minor Improvements
- Bug fixes and improved stability

Significant Extensions
- Create spreadsheets in Excel format
- Create spreadsheets with multiple pages
- Tighter integration with *G7*

Compare **Extensions: Integration with *G7***

Inforum Software

Software Demonstrations

- *G7* routines – Introduction to *G7*
- *G7* routines – Introduction to Vam files
- *G7* routines – Work with Excel spreadsheets
- *G7* and Compare – Building tables
- *G7* routines – Advanced graphing
- *G7* and Macro Modeling – Running AMI
- *G7* and Interindustry Modeling – Running Tiny

Software Demonstrations: Introduction

- C:\PDG\Demo\Intro
  - Load and assign a bank (the U.S. Monthly Retail Trade Survey)
  - Assign fdates, tdates, and gdates
  - Print data to the screen using the type command.
  - Graph data
  - Form unique variables
  - Add data to the workspace
  - View a stub file
  - Use add files

Software Demonstrations: Intro to Vam Files

- C:\PDG\Demo\BasicVam
    - Learn what is a Vam file
    - Create Vam configuration files
    - Build title files.
    - Create a Vam bank in *G7*
    - Add data to a Vam bank
    - Display data

Software Demonstrations: Reading Spreadsheets

- C:\PDG\Demo\xlRead
  - Open spreadsheets (Wholesale Trade, Ag Receipts, Annual IO)
  - Specify missing value codes
  - Read time series data from a spreadsheet
  - Read a vector of data across time
  - Read a data matrix, split across several worksheets
  - Create Vam and workspace data banks

INFORUM
40 Years: 1967-2007

Software Demonstrations: Writing Spreadsheets

- C:\PDG\Demo\xlWrite
  - Create new workbooks
  - Create new worksheets
  - Name worksheets
  - Write time series data (from Service Annual Survey data bank)
  - Write data in matrix form (from IO data in Vam file)
  - Adjust column widths
  - Save your work

Software Demonstrations: Using *Compare*

- C:\PDG\Demo\Compare
  - View GDP, Consumption, Investment data in NIPA bank
  - Construct alternative VAR models in Levels and Growth Rates
  - Make VAR forecast in *G7*
    - using iterative process to evaluate three equations
    - employ regression parameters stored in the *rcoef* series
  - Store results in *G* data banks
  - Use *Compare* to view results

Software Demonstrations: Advanced Graphing

- C:\PDG\Demo\Graph
    - View the NIPA and FRED banks from EconData
    - Construct line graphs
    - Add text and arrows to a graph
    - Adjust the vertical range and labels
    - Construct a bar chart
    - Construct a stacked bar chart
    - Construct a scatter graph

Software Demonstrations: Running *AMI*

- C:\AMI
  - Re-estimate equations with "add runall.reg"
  - Review the master file
  - Build the model: Model | Build
  - Run the model: Model | Run Macro Model
  - Build tables: Model | Tables

Software Demonstrations: Running *Tiny*

- C:\Tiny
  - Review the master file
  - Build the model: Model | Build
  - Run the model: Model | Run Dyme Model
  - Build tables: Model | Tables

INFORUM
40 Years: 1967-2007

Software Demonstrations: Others

- Will improve demos with your suggestions
- Will expand the collection with your submissions and requests

- Other available demos:
  - Forecast-checking algorithm using if-else tools
  - Demonstration of Vam tools