Comments on

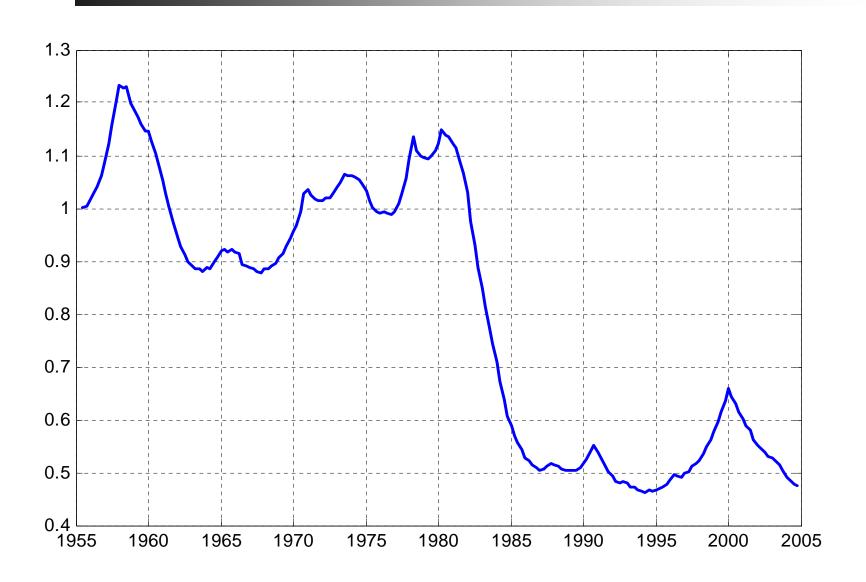
Financial Innovations and Macroeconomic Volatility

by Urban Jermann and Vincenzo Quadrini

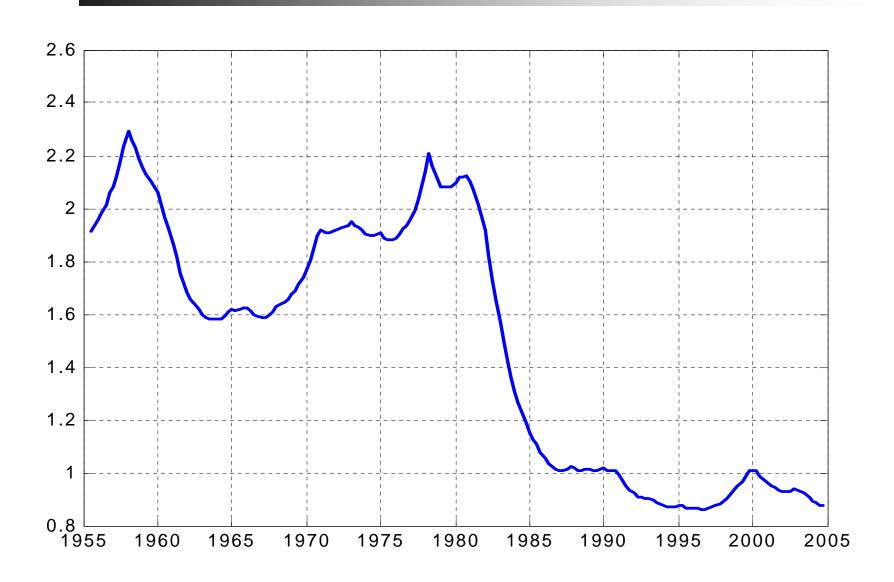
Giorgio Primiceri Northwestern University

November 17, 2006

Standard deviation of US GDP growth



Standard deviation of US GDP (HP filter)



This paper...

 Financial structure of firms has become more volatile after 1984

Model in which financial factors are key to generate fluctuations

- Two financial frictions:
 - Endogenous borrowing limit (limited commitment)
 - Exogenous cost of paying out dividends

Main result

Model calibrated to US data pre and post-1984

 Explain the Great Moderation as a consequence of firms' greater financial flexibility

Outline of my Comments

1. Will tell you why this is a very nice paper

2. Comments on the empirical motivation

3. Comments on the theoretical framework

 A look at the Great Moderation from a different perspective

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Justiniano and Primiceri (2005):
Large scale DSGE model with time varying volatility of structural shocks

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Large scale DSGE model with time varying volatility of structural shocks

 Reduction in volatility of GDP explained by a reduction in volatility of a shock to the real return on capital

- This shock is a "wedge" in the Euler Equation pricing the capital stock
- Might proxy for un-modeled financial frictions (CKM, 2006)

- This shock is a "wedge" in the Euler Equation pricing the capital stock
- Might proxy for un-modeled financial frictions (CKM, 2006)
- Interpretation: Great Moderation comes from a reduction in financial frictions
- Bingo!

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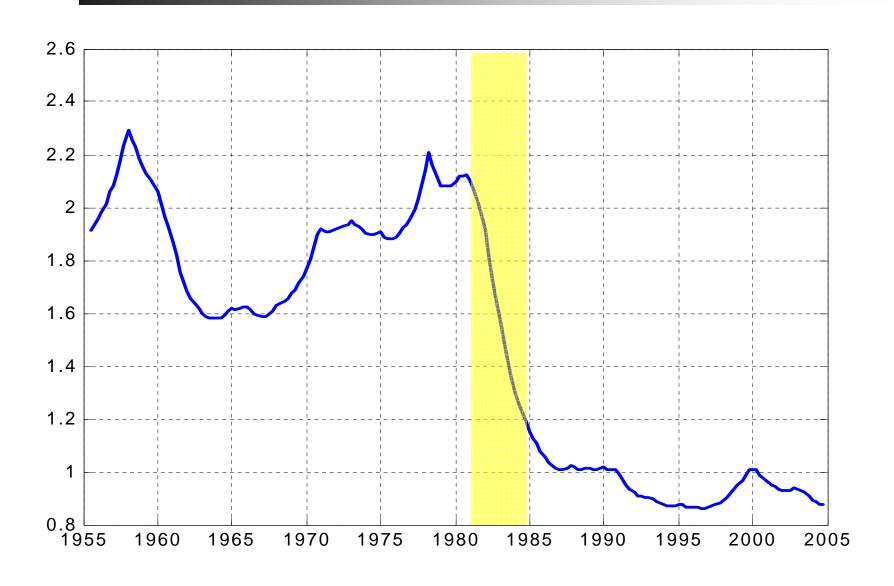
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A closer look at the empirical motivation of JQ

Decline in volatility of GDP in early 1980s is very sharp

Volatility of US GDP



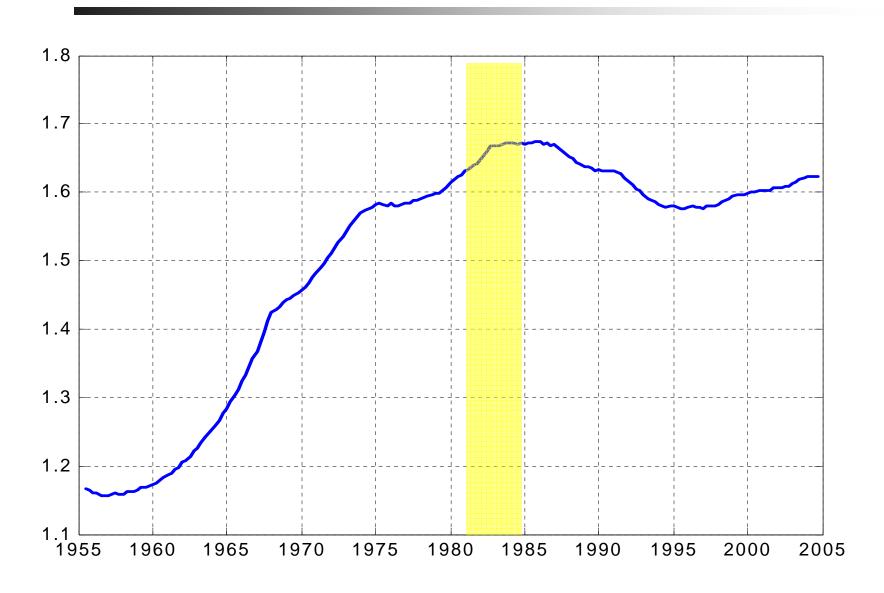
A closer look at the empirical motivation of JQ

- Decline in volatility of GDP in early 1980s is very sharp
- This is the real puzzle
- This is why the Monetary Policy hypothesis has received so much attention

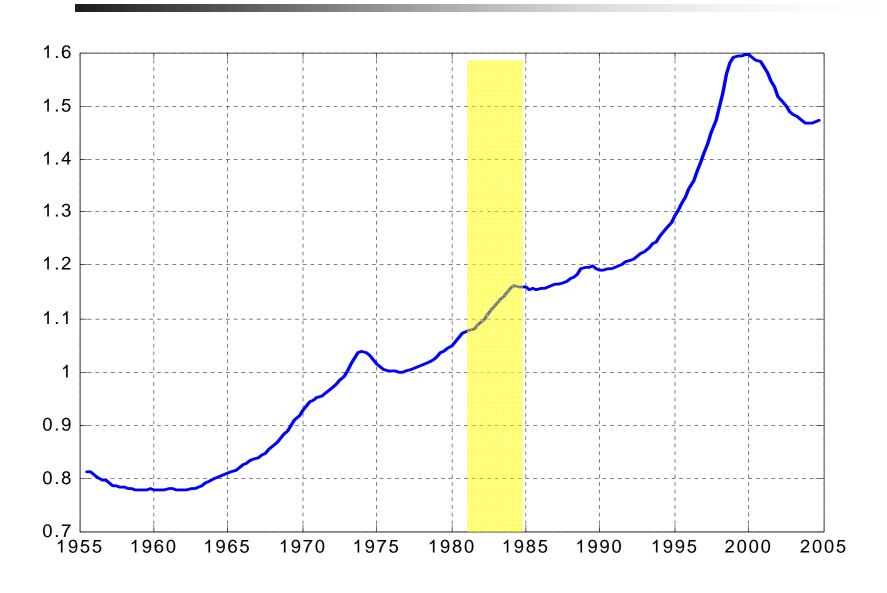
A closer look at the empirical motivation of JQ

- Decline in volatility of GDP in early 1980s is very sharp
- This is the real puzzle
- This is why the Monetary Policy hypothesis has received so much attention
- Let's have a look at the financial variables examined in JQ

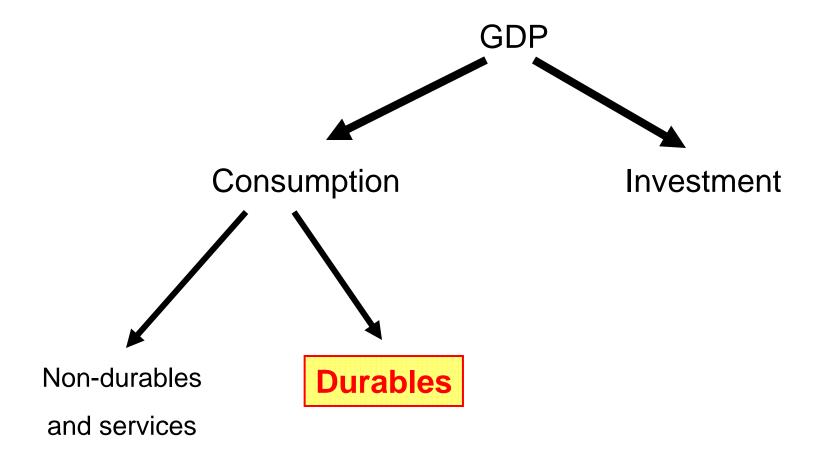
Time varying SD of Debt Repurchase

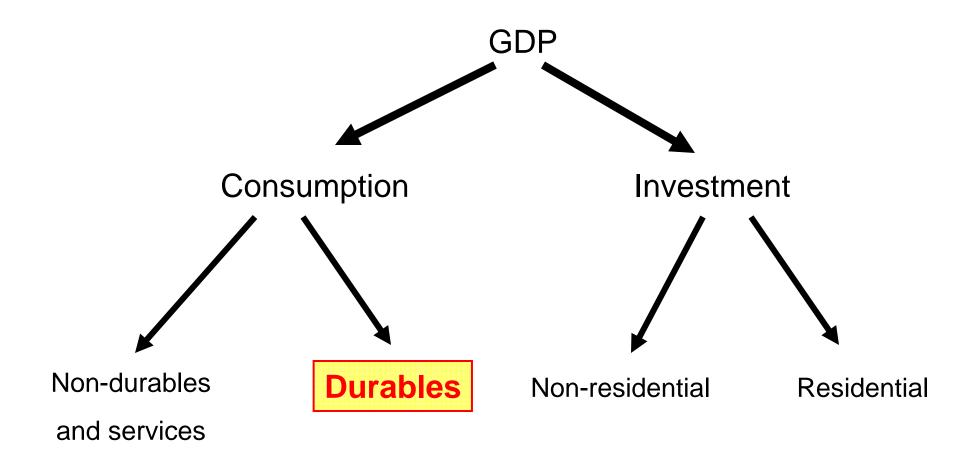


Time varying SD of Equity Payout

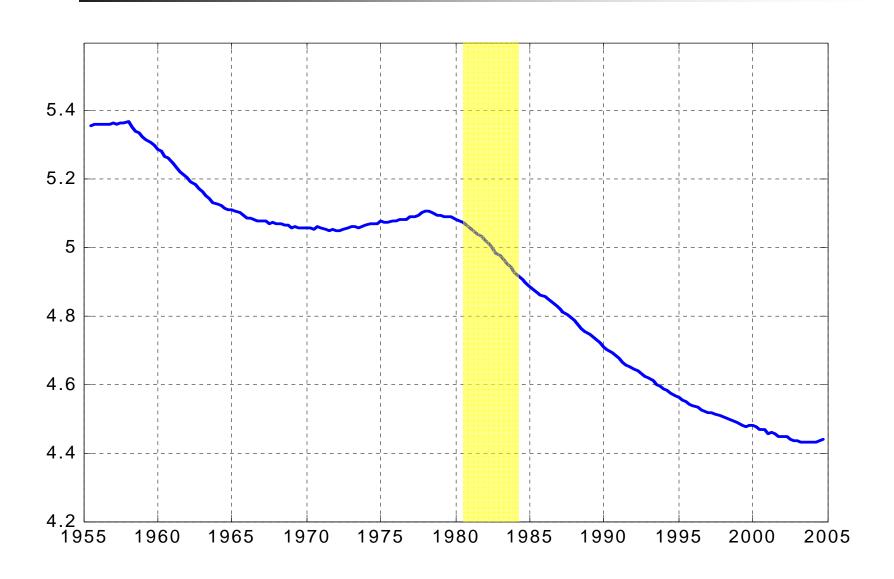


Which component of GDP has experienced the sharpest and most dramatic reduction in volatility?

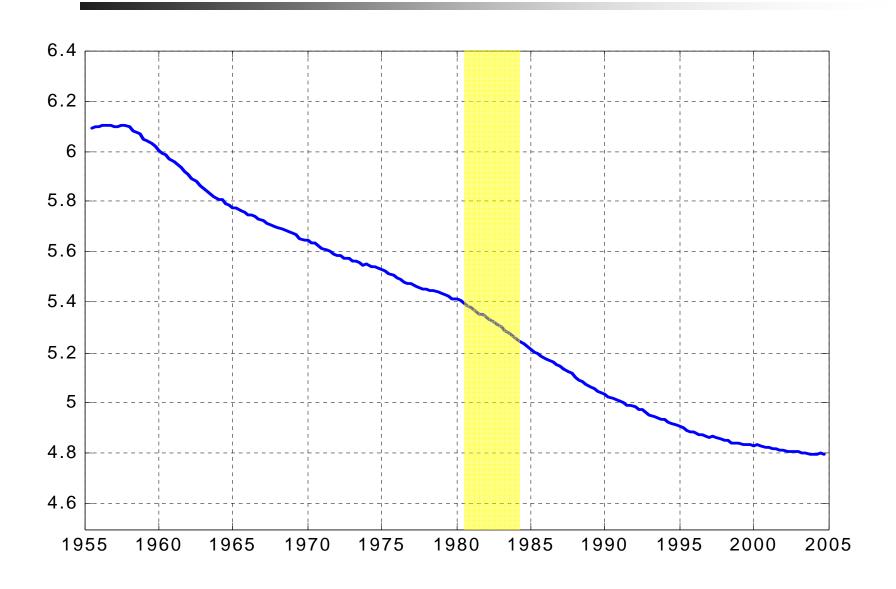




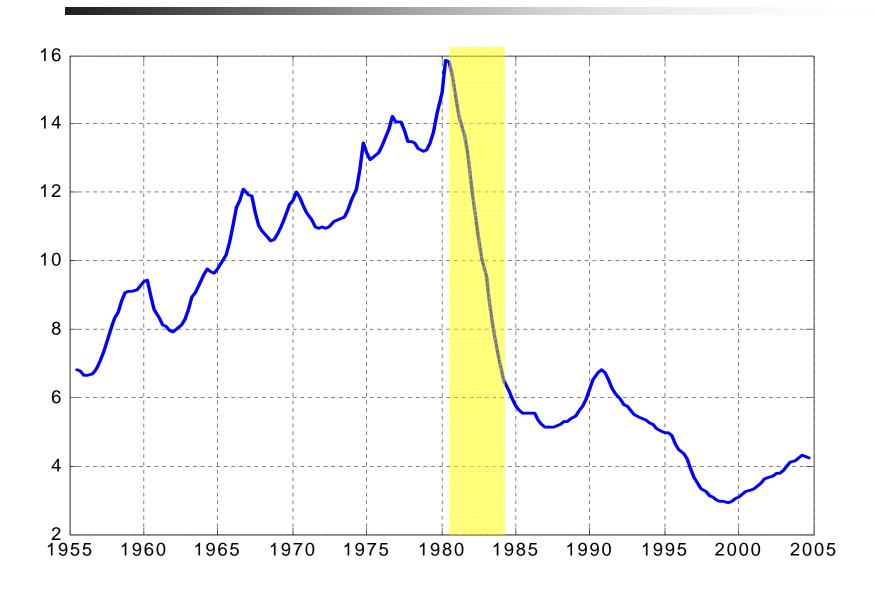
Time varying SD of Non-Residential investment

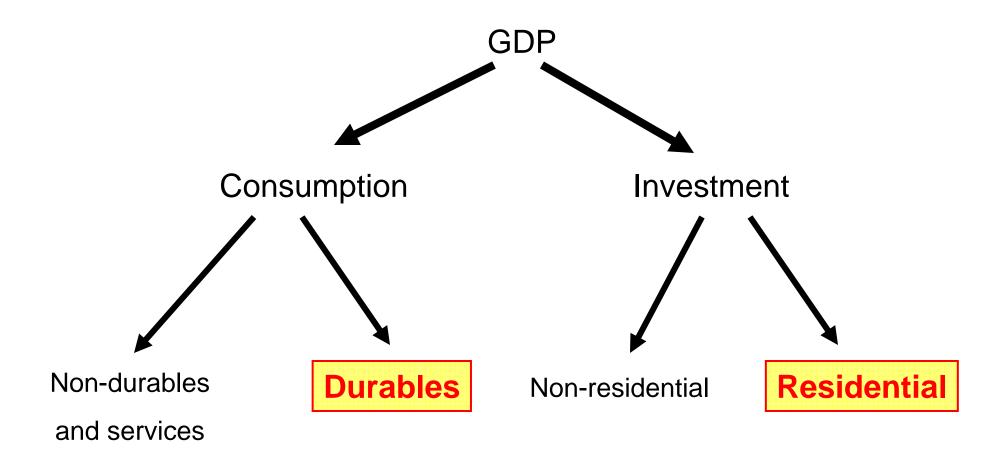


Time varying SD of Equipment & Software

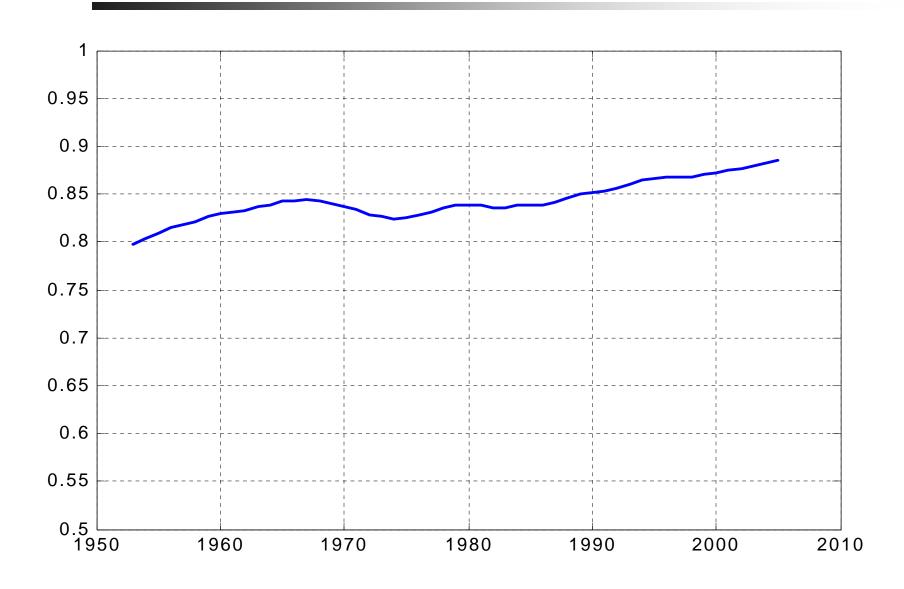


Time varying SD of Residential investment





Share of residential assets owned by HH



What do we learn?

- Household sector owns most of residential assets (85%)
- Business sector owns most of non-residential assets

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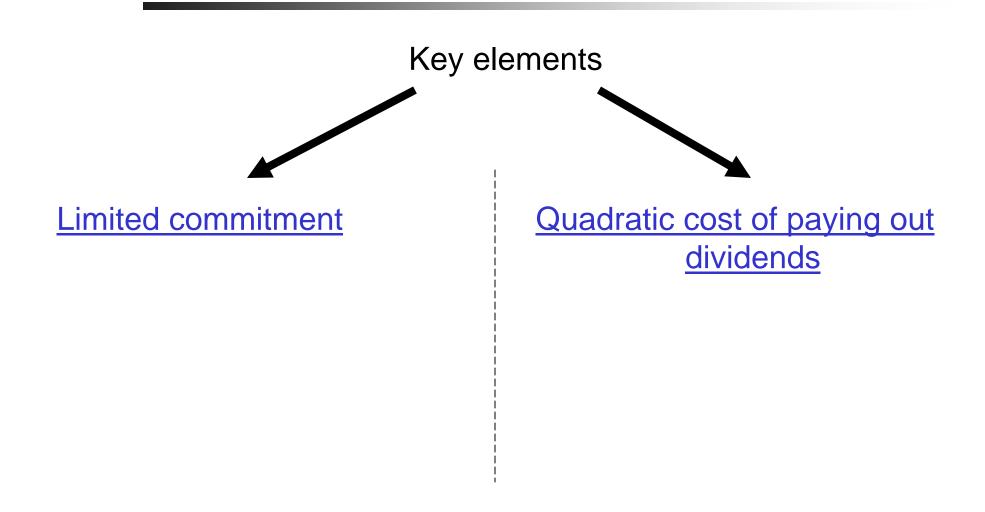
- Household sector owns most of residential assets (85%)
- Business sector owns most of non-residential assets
- Smooth change in volatility of firms' financial structure is consistent with smooth change in volatility of nonresidential investment!
- Shouldn't we pay more attention to the household sector to explain the Great Moderation?
 - Campbell and Hercowitz (2006)
 - Mertens (2006)
 - Guerron (2006)

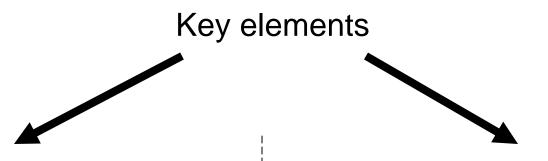
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 - Household sector seems to be key

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- 3. Comments on the theoretical framework

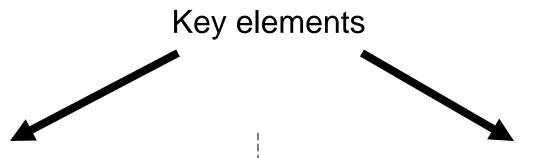




Limited commitment

- Strong micro-foundation
- No role in the Great Moderation

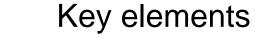
Quadratic cost of paying out dividends



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Quadratic cost of paying out dividends

- Crucial for the quantitative result!
- Non-standard
- Ad-hoc

- Ad-hoc quadratic costs of paying out dividends
- Shouldn't we think of structural interpretations?
 - Signaling problem
 - Progressive taxation
 - Risk adverse entrepreneurs
- Either non-symmetric cost or more appropriate interpretation for private equity

Outline of my Comments

- 1. Will tell you why this is a very nice paper
 - Larger scale models indicates this as a promising direction
- 2. Comments on the empirical motivation
 - Increase in volatility of financial structure is too smooth
 - Household sector seems to be important!
- 3. Comments on the theoretical framework
 - What is the role of limited commitment?
 - Quadratic adjustment costs of paying out dividends???