Mergers, market definition, merger simulation

220B, spring 2008

Staples

- Direct evidence concerning merger effect
 - Never ideal of course
- FTC and court used for market definition, yielding "presumption" about effect!
- What's going on?!

Market shares

- In a clearly defined market,
 - High share relates to market power:
 - Cournot expression
 - Expression with supply elasticity from others
 - Marginal revenue
 - High shares of merging partners relate to unilateral effect
 - Opportunity-cost term and primitive simulation
 - High concentration relates to coordination(?)

Presumptions

- If concentration remains low even after merger, probably no concern
 - "Safe harbor"—Herfindahl < 1000
- If concentration high and increases with merger, worry or at least look more
- In court, "presumption" that shifts burden of proof in principle

What is this "market"?

- Two strands of thought collide
 - Universe of discourse: include all main substitutes, perhaps potential entrants and other relevant stuff (complements?!)
 - Reverse-engineered definition to make shares as meaningful as possible
 - Merger Guidelines algorithm
 - 2006 Commentary

Market definition algorithm

- Broaden a small step at a time
- When "hypothetical monopoly" would profitably raise (at least one) price by (at least) SSNIP, it's "a market"
 - Break-even or profit-maximizing?
 - Critical loss analysis
 - Narrowest market?
 - Complements or substitutes not in market?

Predicting price effects

- Arises both for market definition (with profit maximizing HM) and for merger simulation
- Estimate of HM profit function yields estimate of its profit-max price(s)
- Very "delicate" and depends on assumed functional form
 - Relate to pass-through and efficiencies
 - Werden et al 2005

What Actually Happens?

- "Narrow" and/or "complicated" markets that would emerge from HMG not used
 - So easy to ridicule
- Concentration level/change for presumption H > 1800, dH > 100
 - Probably too worried if literal HMG market
 - Plausibly not worried enough if broad market, high gross margins

What to do?

- Safe harbor based on most-concerned plausible theory: shift to full collusion
 - Not much worry if small shares in HMG market?
- Presumption based on least-concerned plausible theory: unilateral effects
 - Meaning
 - Implementation: pricing pressure; simulation?

MCI-Sprint

- Remember the "long-distance market"
 - The Big 3 and many small ones
 - Uncertain prospect of Bell entry
 - What happened ... successful; endgame mergers
 - Price premium for brands:
 - why? Does it matter?
- Merger simulations yielding widely different results
 - As we just discussed
- Efficiencies—market for corporate control

International

- Merger to monopoly in some routes
 - But perhaps entry; small part of the deal
 - Rules were changing

Big business market

- Integrated service to many locations
- Reputation, own facilities, size
- ATT, MCI dominant
- Sprint starting to compete successfully
- Perhaps so were Bell, GX, …?

Internet Backbone

- Voluntary "peering" and interconnection
 - Price, quality of connections
- How incentives depend on share
 - Bilateral yes/no
 - More complex games
 - Cremer, Rey, Tirole JIE;
 - Malueg and Schwartz

Next time

- Oracle-PeopleSoft
 - Business management software
- Heinz-BeechNut
 - Baby food

Things to read

- Merger Guidelines Commentary March 2006
- Whinston chapter in Handbook (online)
- Cases for next week
- Vast amount is written...

Heinz

- "3 to 2" among major baby food suppliers
- Gerber biggest, and everywhere
- H, B mostly separately side-by-side vs G
- Did they compete to be 2nd brand?
- Do we care if supermarkets get lower slotting allowances?
 - "Buyer" welfare?
 - Pass-through mechanisms; "fixed"??

Are efficiencies merger-specific?

- H's production facilities, B's recipes
 - Are recipes really so hard? Apparently, for H
 - Could B build own modern plant? Would it?
- Why would synergy take a merger?
 - Because they compete?
 - Other contracting difficulties?
 - Would a contract limit competition as much as a merger?