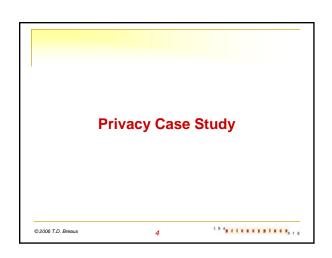
Ethics in Computer Science Technologists and Value-free Technology Travis D. Breaux North Carolina State University December 8th, 2006

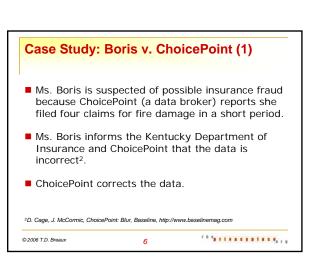


Ethics in Computer Science Computer technology is value-free. Business processes and procedures employ technology in a value-laden manner.



Kentucky resident Mary Boris suffers damage to her home caused by hail and a broken washing machine¹. Ms. Boris files four water damage claims with her home owner's insurance company all in the same year. In February of 2000, Ms. Boris loses her home owner's insurance... 'S. Harris, Private Eye, GOVEXEC.com, http://www.govexec.com

Case Study: Mary Boris



Case Study: Boris v. ChoicePoint (2)

Months later, ChoicePoint reports that Ms. Boris has now filed four water damage claims, four fire damage claims and one "excess damage" claim.

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Case Study: Boris v. ChoicePoint (3)

- The Fair Credit Reporting Act (FCRA) governs the maintenance and disclosure of consumer reports.
- In 2003, Ms. Boris files suit against ChoicePoint in U.S. District Court and wins an award of \$447,000 for damages.
- Judge John Heyburn II wrote, "[ChoicePoint] repeatedly denied making any mistakes and instead seemed to blame all defective data on others..."

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Case Study: Boris v. ChoicePoint (4)

 ... The problem was only fixed after the incorrect data expired from the system, automatically.

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What caused the problem?

ChoicePoint never reveals the details...

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What caused the problem? (1)

- Insurance records are commonly maintained in two database systems: CLUE and A-PLUS.
- The CLUE³ record includes the date, *type of loss* and amount paid by the insurance company.
- The fire damage claims may have been:
 - ☐ A data-entry error created by a human; or
 - A data conversion error created by program?

³CLUE and You: How Insurers Size You Up, Privacy Rights Clearinghouse, http://www.privacyrights.org

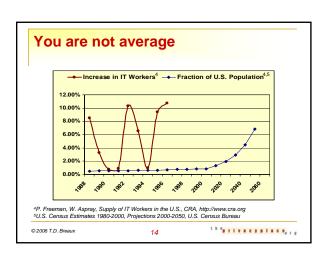
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What caused the problem? (2)

- A company called FirstLogic sells software that identifies related data records in order to merge them into a consolidated record.
- ChoicePoint is a FirstLogic customer.
- The recurring fire damage claims may be due to:
- An upstream data source that received the incorrect data but was never corrected.
- ☐ The incorrect data was then merged with the correct data.

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Who is responsible? Obvious suspects... Ms. Boris The insurance company ChoicePoint Hidden actors... Business Managers and Analysts IT Managers Software engineers System and Database Administrators



What you can do...

- As employees, protect ourselves (and our employers!) by identifying downstream liability due to harms.
- As citizens, recognize when technology is used in a value-laden manner and educate others to possible harms!

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