Basic Seminar on Software Engineering

Research in Software Engineering

Motivation

- "The software crisis"
- What you can measure you can improve
- Challenging
- Curiosity

Success of Open Source

- Metrics
  - Use (number of downloads)
  - Interest (number of developers)
  - Longevity
- Identification of download patterns
  - Growing => successful
  - Table => has-been
- Apply this to SourceForge data

Microsoft time, Microsoft size

- Did you notice that download time is non-linear?

- Did you notice that file size is non-monotonic, and does not reflect editing work

- How bad is this?

  - Are other systems indeed better?

- What are the effects on users?

  - User survey: do you feel you understand your car / microwave / washing machine / toaster / computer

  - User survey: are you afraid of your car / microwave / washing machine / toaster / computer

Closed vs. Open Projects

- Reactions to reading Raymond's The Cathedral and the Bazaar":
  - It is the best article ever and very convincing
  - It is a one-sided load of bullshit
- Some apps cannot be released if not as perfect as they can get
  - Nuclear reactor control, traffic light control
- Some closed apps are just better than competing open ones
  - Office vs. OpenOffice, VisualStudio vs. Eclipse
  - Is this interactive apps vs. infrastructure?