Dilbert meets Fred Brooks 😊

I hired all of you because the project will take 300 man days to complete.

There are 300 of you, so I want you to finish by five o’clock and clean out your desks. You’re all fired.

If it takes more than one meeting to manage a project, I lose interest.

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Study Questions - Mismatch

- What is Brooks advice in Buy not Build - what does that mean today?
- What are problems encountered when you buy components? What is the major or most important impediment?
- What kind of system did Garlan want to build? What components did want to use? How long did he expect vs how long did it take?
- What are the components and connectors?
- What problems did he have? What are the main characterizations/categories of these problems? Details?
- What are ways to solve these problems? How well do you expect them to work?
Study Questions - Linux

- What are pervasive problems wrt documentation?
- What is Linux? Why is lack of documentation a problem?
- What are the two distinctions made about architecture? Why are they important? How do they relate to the Perry/Wolf approach?
- Why wasn't existing documentation a problem? What are the major components in the architecture? How are they related?
- Is the file system structured? What is the pattern used to design and implement it? What is the benefit of using that pattern? Why is it important?
- How did they recreate the actual architecture? What techniques and tools? How is this different from the ideal architecture? What problems does it have?
What kinds of benefits can be gained from taking a product line architecture approach? What are the needed components and processes for a product line?

Revisit styles. What are the constraints needed to indicate a strict layering style?

There are two primary dimensions we can use to determine the organization of an architecture: functions and objects. How do you decide? What are the benefits are there to each approach?

What are the different things one can do with connectors? What benefits do each of these different uses have?

There is dynamic as well as static architecture evolution? What is dynamic evolution? What are its benefits (this is a thought question)?