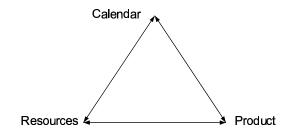
# 2 The Mythical Man-Month

# The Mythical Man-Month

- Optimism
- The Man-Month
- Gutless Estimating
- Regenerative Schedule Disaster

# The project management trio



• *Or*, ... You can have it good, fast or cheap. Pick any two.

#### Calendar time

- "More software projects have gone awry for lack of calendar time than for all other causes combined."
- Which factors of the trio can we control?
  - Calendar time
  - Resources
  - Product
- So, which gets the blame when things go wrong?

## Brooks' factors

- 1.Estimates typically assume that all will go well
- 2. Estimates commonly confuse effort with progress i.e., "men and months are interchangeable"
- 3. Outside pressures often influence estimators
- 4. Schedule progress is often poorly monitored
- 5. Many managers respond to delays by adding human resources (Recall factor #2, above)

#### The Man-Month

- Cost varies with product of men and months
- Progress does not
- Men and months can be interchanged only when the task partitions with no communication
- Partionable: Reaping wheat
- Non-partitionable: Giving birth

## **Optimism**

- Other disciplines are subject to the inherent constraints of physical media
  - e.g., lumber, paint, electrical circuits
- Programs are "pure thought stuff"
- Pride distracts us from failures in our thinking
- Errors so not become evident until forced
- Probability of all components in a sequence being error-free is vanishingly small

#### Communication costs

- Cost varies with product of men and months
- Progress does not
- Men and months can be interchanged only when the task partitions with no communication
- Partionable: Reaping wheat
- Non-partitionable: Giving birth

