

# Evolution Quiz

## CPRE 556 - Lecture 3

# Question 1

- What was the answer to Tom Watson's probing question - *why programming is hard to manage* ?

# Answer

- Frederick Brooks' book *The Mythical Man-Month* (Addison-Wesley, 1975).

# Question 2

- What is the big famous IBM computer - a landmark in the evolution of computers?

# Answer



Figure 1. IBM System/360 Model 40 Data Processing System

# Question 3

- How many man-years of effort did the OS/360 project take?

# Answer

- 5000 man-years. (Frederick Brooks, the author of the book *The Mythical Man-Month*, was the manager of OS/360 project.)

# Question 4

- What was the cycle time and the storage capacity of IBM 360?



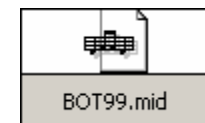
# Answer

- IBM Data Processing Division press release distributed on April 7, 1964:
  - Internal processing power of the largest System/360 configuration is approximately 50 times greater than that of the smallest. The system's machine cycle time - - basic pulse beat of a computer - - ranges from one millionth-of-a-second to only 200 billionths-of-a-second.
  - System/360 core storage memory capacity ranges from 8,000 characters of information to more than 8,000,000. Information storage devices linked to the system can store additional billions of characters of data and make them available for processing at varying speeds, depending on need.

# Bonus Problem

- Compose a software evolution song to the tune of:

## Programmer's Drinking Song



Nine-ty nine bot-tles of beer on the wall, Ninety-nine bot-tles of beer; If \_\_\_\_ one of the bot-tles should hap-



-pen to fall, There'll be nine - ty eight bot - tles of beer on the wall.

# Software Evolves ..

sung to the tune of “100 Bottles of Beer”:

*99 little bugs in the code,  
99 bugs in the code,  
fix one bug, compile it again,  
100 little bugs in the code,  
100 little bugs in the code....  
Repeat until BUGS = 0;*

-- Anonymous