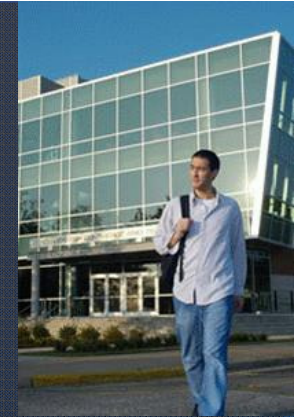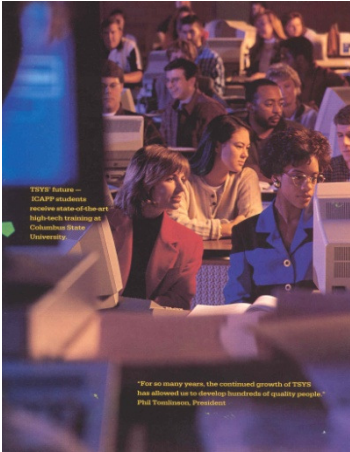# IBM SYSTEM Z PREMIER EVENT

TSYS School of Computer Science

Columbus State University

Columbus, Georgia

March 16, 2010

Columbus State University

1. Curriculum developed in 1992 with the assistance of IBM and TSYS

2. Nearly 2000 students have received degrees / certificates
(1000 hired by TSYS with 800 still employed)

3. Currently offer seven mainframe courses

TSYS School of Computer Science

- Thirteen Faculty
  - 6 have taught mainframe classes
- B.S. in Computer Science (Applied, Systems, Games tracks): 300 students
- B.S. in Information Technology
  - Available on-campus and through online delivery
- B.S.B.A. in Management Information System
- M.S. in Applied Computer Science: 100 students
  - Available on-campus and through online delivery

TSYS-sponsored ICAPP student Dawn Washington and Columbus State University professor Dr David Woolbright discuss the requirements of a class assignment.

History of mainframe education and training at CSU
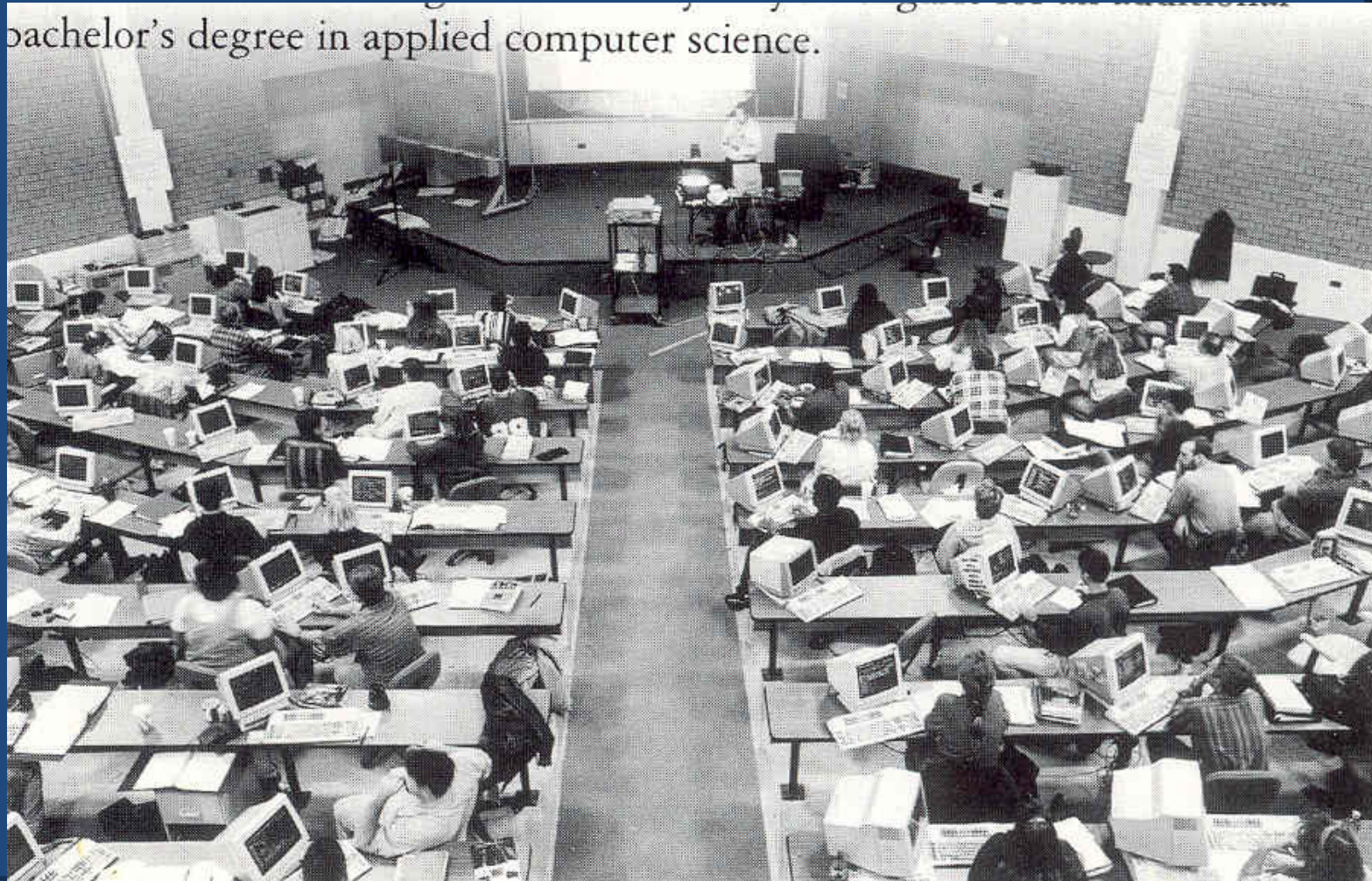
- 1987-1995: AAS-Technology (25 students)
- 1990-1992: Total Systems Quickstart/Compass
  - 250 students
    - 35 quarter credits of CS courses using TSYS equipment

- 1992: CSU, TSYS, IBM developed CS curriculum

- 1994-1996: Total Systems Quickstart 2
  - 200 students
  - 8 month program

History of mainframe education and training at CSU

- 1996-2003: ICAPP [Intellectual Capital Partnership Program]
  - 923 students
  - 50 quarter credits / 30 semester credits of CS courses
- Fall 2003: TAC [Technical Accelerated Curriculum]
  - 26 students
  - 27 semester credits of CS courses (mainframe + Java)

- 1993-2009: BS-Applied CS (502 students)
- 1993-2009: BS-Systems CS (295 students)
- 1997-2009: MS-Applied CS (188 students)

ICAPP

bachelor's degree in applied computer science.

History of mainframe education and training at CSU

- Over 2500 certificates, diplomas, and degrees awarded in computer science and computer programming from 1987 – 2009

- Approximately 2000 students have completed one or more of our programs
  - TSYS has hired over 1000 computer programmers
  - Over 800 are still full-time employees at TSYS

System z courses

System z Courses Currently Offered

- CPSC 3111. Structured Prog. with COBOL
- CPSC 3112. Structured Prog. with COBOL 2
- CPSC 3116. Mainframe Basics and JCL
- CPSC 3121. Assembly Language Program. 1
- CPSC 3122. Assembly Language Program. 2
- CPSC 3131. Database Systems 1
- CPSC 3132. Database Systems 2
- CPSC 3156. Transaction Processing
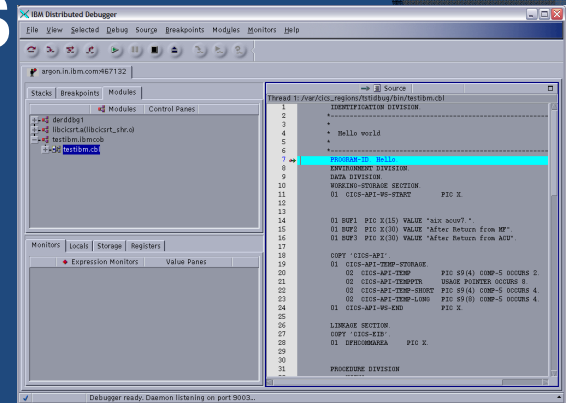
System i Courses Currently Offered in MIS Department

- **MISM 3135. Introduction to AS/400 Operations**
- **MISM 3165. RPG Programming 1**
- **MISM 4135. Database Design (DB2)**

z/i Series Courses Currently Offered

- ◉ **B.S. Applied track**
  - • **COBOL, Assembler, and CICS**
- ◉ **B.S. Systems track**
  - • **Assembler**
- ◉ **B.S. IT degree (on campus)**
  - • **JCL, COBOL 1 & 2, Assembler, and CICS**
  - • **AS400 Operations, AS400 Programming, AS400 database design**

Future Enterprise Computing Content

- Object-oriented COBOL
- Java & Java Gateway
- Websphere
- Websphere MQ Series
- SOA (offered the past two years)
- Virtualization

Collaborations between CSU & IBM

- **Continued participation in Academic Initiative**
  - **Access to** remote virtual z/OS 1.9 system
  - **IBM Programming contest**
  - System z Academic Initiative Press Release: http://www-03.ibm.com/press/us/en/pressrelease/24921.wss
- **Faculty Development**
  - **Participation in SHARE Conference**
  - System z Professor Summer Seminars at Poughkeepsie
  - Regional IBM Workshops & Meetings

TSYS SCHOOL OF COMPUTER SCIENCE

Columbus State University

Columbus, GA

http://cs.colstate.edu

cs@colstate.edu

summers_wayne@colstate.edu