SuperComputing at Cameron University
Entering the 21st Century

Step 1 Grant Proposal and Acceptance

Wal-Mart/NCR Grant

Cameron University one of only six universities in the nation to receive the 5100M from a Wal-Mart/NCR grant.

Cameron University will have three-degree programs in Data Warehousing, Data Mining and Information Security that will utilize the NCR 5100M

“This is a major acquisition for Cameron and has major implications for the University’s evolution as a high-tech training center,” said University President Dr. Don Davis. “We expect the Wal-Mart/NCR grant to greatly enhance Cameron’s economic development efforts in Southwest Oklahoma and help us train a work force that is prepared to meet the demands of the 21st Century.”
Step 2 NCR5100 Hardware Installation

The size of the system is larger than 88% of the Teradata systems worldwide.

Massively parallel computer system (10 nodes).

System has 80 Pentium Pro 200Mhz processors.

1.7 Terabytes of storage space (1,700 Gigabytes). A terabyte of information is the equivalent of 250 million pages of text.
Step 3 Faculty Prepare New Courses

CIS 3083 DATABASE - emphasis on design and use of database systems and a comparison to sequential file structures.

CIS 3183 STRUCTURED QUERY LANGUAGE—an in-depth study of the Structured Query Language (SQL), and relational database processing. Using query tools such as Queryman, Access, Oracle, and BTEQ.

CIS 4013 DATA WAREHOUSING - The strategies and processes for Data Warehousing of large relational databases. Design and architecture of data warehouses for different industries.

CIS 4023 DATA MINING - The strategies and processes for Data Mining of relational databases. Using such Data mining tools as KnowledgeSEEKER, RightPoint DataCruncher, MicroStrategy, and SPSS.
Step 4: Supercomputing Awareness Workshops for Industry in Great Plains Area (at Cameron or on customer site)

**Data Warehousing Workshops Topics:**
The compelling need for Data Warehousing
Trends in Data Warehousing
Planning and Project Management of Data Warehousing
Information Access and Delivery in Data Warehousing
Implementation and Maintenance in Data Warehousing

**SQL Workshops Topics:**
SQL with Sybase
SQL with Queryman
SQL with Microsoft Access
SQL with Oracle

**Data Mining Workshops Topics:**
SPSS
Angoss KnowledgeSEEKER
RightPoint DataCruncher
MicroStrategy

**Microsoft Office Suite Workshops Topics:**
Word
Excel
Access
Outlook
PowerPoint
Step 5: Research & Industry Outsourcing

Undergraduate Students
Academic Research
State Government
Security Issues
Applied Research
Graduate Students
Defense Contractors
Department of Defense

On to the Future…