

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...



NCR Teradata

Cameron University

Lawton Oklahoma