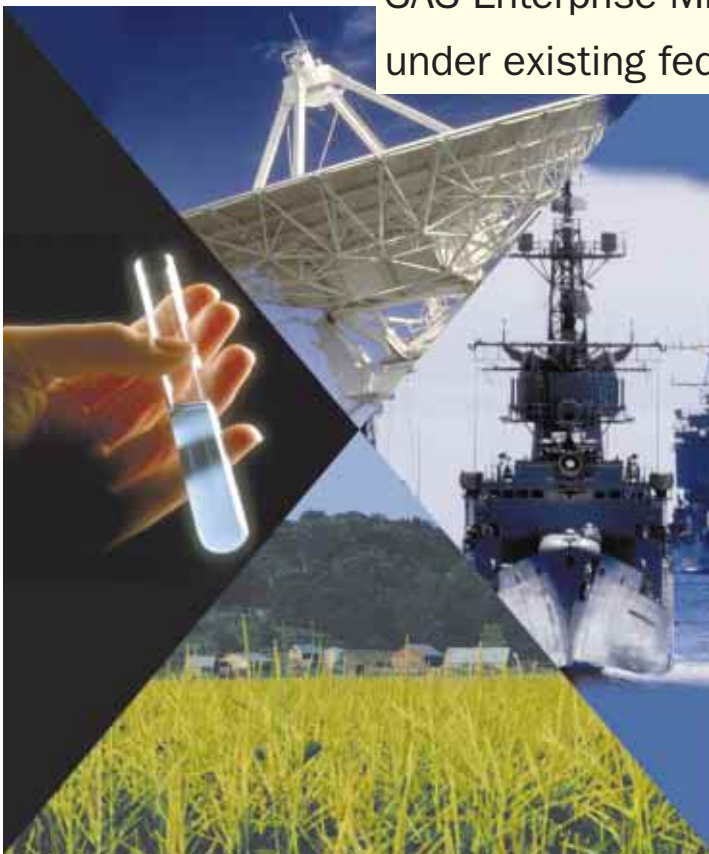**COMPAQ**

SAS Institute

SAS Enterprise Miner Software on the Alpha Warehouse Miner System

A pre-packaged, pre-tested AlphaServer 4100 system available today under existing federal contracts

Partial list of open Federal contracts

☑ *SEWP II*

☑ *Defense Information Systems Agency*

☑ *Department of Agriculture*

Compaq and the SAS Institute have joined forces to develop the ultimate data-mining solution – Alpha Warehouse Miner running Compaq DIGITAL UNIX®. This fully tested package offers the speed, power, and storage capabilities of a 64-bit Compaq AlphaServer™ system with the comprehensive range of features and ease-of-use of SAS Enterprise Miner™ software. Best of all, it's available under existing federal contracts today.

Data mining — the process of selecting, exploring, and modeling huge volumes of data to uncover previously unknown patterns — is the key to data analysis and improving service delivery for a growing number of federal agencies.

SAS Enterprise Miner™ software is the first data-mining product to offer a common environment for its primary users — business analysts, quantitative gurus, and IT professionals — and is the first to address the entire data-mining process within one automated solution.

This cost-effective package is orderable with a single part number and delivers all the high-performance software and hardware you require for advanced data mining.

Benefits

- This data-mining solution is available today through existing federal government contracts

- Factory integration creates a system that arrives at your site ready to load and run SAS Enterprise Miner software, thus significantly cutting deployment time

The user-friendly design of SAS Enterprise Miner enables novices and experts alike to access all the functionality needed to implement the SEMMA (Sample, Explore, Modify, Model, Assess) process.

Benefits continued

- 64-bit Alpha technology with VLM (Very Large Memory) capabilities enables fast processing of large amounts of data

- Builds on the Alpha Warehouse Family of characterized, scalable data-warehouse platforms and simplifies the task of selecting the right size system for your environment

The 64-bit difference

Alpha Warehouse Miner is based on a 64-bit 600 MHz AlphaServer 4100 system running DIGITAL UNIX. Tests have shown that data-mining analyses conducted on 64-bit DIGITAL UNIX finish 12 times faster than those run in the 32-bit environment.

This power and speed of the 64-bit hardware/software environment make it ideal for exploring terabytes of data in the largest and most complex federal data-mining applications such as:

- Imagery

- Logistics

- Medical and biological analysis

- Fraud detection

Very Large Memory

AlphaServer systems use VLM (Very Large Memory) technology enabling gigabytes of data to be stored in memory for fast retrieval, eliminating disk I/O and optimizing memory pathways.

In fact, data held in RAM can be accessed up to 1200 times faster then if read from disk.

SAS Enterprise Miner

SAS Enterprise Miner provides a powerful solution for data mining and can be installed with other SAS software products such as SAS DataWarehouse Administrator to create a total data warehouse environment.

A graphical user interface (GUI) provides user-friendly access to all the functionality needed to implement the SEMMA (Sample, Explore, Modify, Model, Assess) process.

From analyst to expert

The GUI enables the business technologist with little statistical expertise to navigate quickly and easily through the SEMMA process. On the other hand, the quantitative expert can draw upon a range of powerful tools to go "behind the scenes" to fine tune the analytical process.

Algorithm rich

Enterprise Miner software offers the widest range of algorithms in a single package — decision trees, clustering, neural networks, data-mining regression, associations, and others. And it introduces a way to compare the results of analyses and select the most effective method.

Putting it all together

With the pace of federal data accretion, you need to deploy data-mining quickly with minimal disruption to your ongoing operations. That's why Compaq *Custom*Systems provides a pre-packaged pre-tested, solution orderable with a single part number.

*Custom*Systems Alpha Warehouse Miner Package

- Pedestal enclosure
- Two 600 MHz 64-bit Alpha processors upgradeable to four processors
- 4 GB of memory upgradeable to 8 GB
- One three-channel UltraSCSI RAID adapter
- 100 GB RAID disk storage (expandable to a maximum of 218 GB)
- Optional tabletop DLT
- 12/24 GB DAT drive
- CD-ROM drive on internal SCSI bus
- S3 TRIO graphic controller with 1 MB RAM
- 17-inch color monitor, mouse, and keyboard
- 10/100 Mbit Ethernet controller
- Three PCI slots available
- 64-bit DIGITAL UNIX license

*In the event that your requirements exceed the capacity of the standard pre-packaged offering, Custom**Systems** can create custom configurations including high-availability clusters to support complex implementations.*

Each platform contains the 64-bit processor, operating system, memory, high-performance storage, networking gear, redundant power supplies, and every cable and connector needed to tie it all together.

In addition, the disk configuration is fully factory implemented and pre-configured for optimal installation of SAS Enterprise Miner software with

- Subset selection

- Subsystems parameters

- System kernel

- Swap area

- Partition size

- Working directory

When it arrives at your site the Alpha Warehouse Miner system is ready to run and load SAS Enterprise Miner software. Installation services are also available.

Smooth implementation

To ensure that Alpha Warehouse Miner fits smoothly into your environment, consultants from Compaq's Advanced Data Mining Center in Austin, Texas, and the SAS Institute can work with you to design and deploy a totally integrated data-mining solution.

Service and support

Compaq can also provide a wide range of services and on-site support to ensure very high availability for your mission-critical systems and applications.

For more information

To learn how you can put the unmatched capabilities of the Alpha Warehouse Miner solution to work for you, contact your Compaq account representative or send e-mail to **customsystems@digital.com**

Visit us on the web at **www.compaq.com/customsystems**