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# GEOMICRO\*

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**A UNIQUE COMPUTERIZED AID FOR FIELD GEOPHYSICISTS**  
**AVAILABLE ON MICROVAX 2000**

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An increasing number of complex and time-consuming tasks have to be performed in the field by overworked geophysicists. CGG has developed the GEOMICRO system to provide them with significant and welcome help in most of their daily activities:

- a complete range of functions: surveying, statics, survey geometry (2-D and 3-D), quality control, accounting, inventories, various management tasks
- adaptable hardware configuration to meet the specific needs of every crew
- a user interface that eliminates the need for special computer training.

\* CGG trademark



## HARDWARE

GEOMICRO is based on a Microvax 2000, which has the following features:

- multiuser configuration, allowing seismologists, surveyors, party chiefs, etc. to have dedicated terminals
- high computing capabilities (32 bits, over 1 MIPS, 4 Mbytes central memory) to implement computer-intensive applications such as Vibroseis similarity control
- high capacity disks and fast I/O which are needed to handle large volumes of data and to implement programs such as 3-D binning simulation and follow-up
- a widely accepted operating system leaving the system open to any future requirements in the industry
- small size (desktop), low power consumption, reliability, low price on a per user basis
- worldwide manufacturer serviceability.

## TYPICAL CONFIGURATION

### HARDWARE

- Microvax 2000 (4 Mbytes central memory)
- 1.2 Mbyte floppy disk
- 40 (or 110) Mbyte disk
- 4 to 12 serial lines
- 1 alphanumeric CRT
- 1 (color) graphic CRT
- 1 A3 size continuous roll pen plotter
- 1 line printer (over 200 cps)
- 1 interface to monitor data loading
- 1 Vibroseis similarity recorder

Other hardware and/or peripherals can be added as needed.

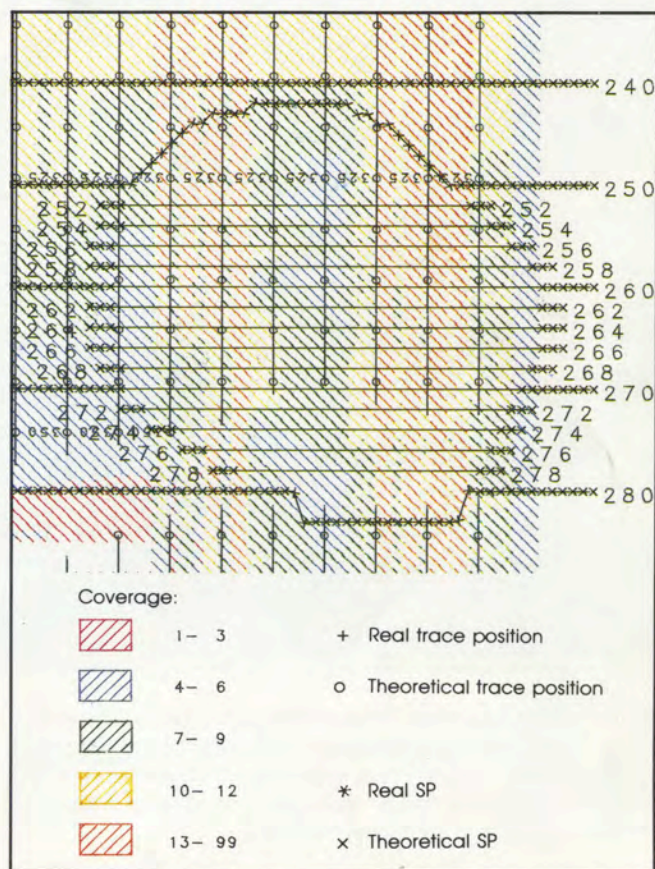
### SOFTWARE

- 1 CGG GEOMICRO package
- 1 VMS operating system
- 1 GKS run time
- 1 FMS run time

Any VAX / VMS software application can be added as needed.

## SOFTWARE

- SURVEYING:
  - Field data acquisition:** HP 41, HP 71, GEODAT, GRE 3, etc. or manual entries
  - Surveying computations:** compass traverse with leapfrogging, plate angle traverse with reciprocal shots, coordinate transformations, sun and star computations, etc.
  - Prints and plots:** maps, elevation profiles, line crossings, etc.
  - Output formats:** SEGP1, SEGP3, UKOOA, etc.
- GEOMETRY:
  - 3-D simulation and follow-up; 2-D geometry follow-up for straight and crooked lines; coverage maps
- QUALITY CONTROL:
  - Vibroseis similarity
- STATICS:
  - Shallow refraction surveys; elevation; uphole surveys
- MANAGEMENT:
  - Accounting, inventories, data entry and retrieval, etc.



3-D coverage diagram.

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