progeEARTH: Digital Terrain Modeling

Create a Triangulated Irregular Network. Use fault lines to control model. Create contours at user-defined intervals. Calculate volumes. Unlimited number of surfaces. Create fully annotated profiles.

Create a TIN
Create a Triangular Irregular Network of a set of points. Any point file in the xyz format can be used to create a surface model. Fault lines may be added to the model to control the triangulation process. Boundaries and voids may also be used to control the appearance of the model.

Contours
Contours may be created at user defined intervals and placed on user defined layers.

Mesh Creation
A mesh may be created of the surface.

Calculate Cut and Fill
Volume calculations may be made between two surfaces.

Unlimited Surfaces
Create an unlimited number of surfaces.

DTM Profile Cutter
Select a polyline alignment and cut a profile from the surface. The profile may then be imported into a drawing. The program places a grid around the profile and annotates stations and existing ground elevations on a user defined interval. You may overlay the existing profile with a new profile cut from a modified surface model.

Select a polyline alignment to cut a section or profile along.
This can be as simple as a straight line or as complicated as a roadway alignment with horizontal curves.

Select 3D lines, polylines or 3D faces to cut a section or profile from.
Select existing contour lines or other topo features. A section or profile is cut from these elements.

A fully annotated section or profile may be imported into your drawing.
The program places a grid around the profile and annotates stations and existing ground elevations on a user defined interval. You may overlay the existing profile with a new profile cut from modified topo features.