A DTM display using Solid Modelling and showing both surface and Base DTMs
A DTM monochrome display showing multiple dump sites

**Digital Terrain Modelling**

This application has the following functions:

- Creating a Surface DTM and/or a Base DTM, using either:
  - Contour Triangulation, or
  - Point data plus BreakLine data.
- Displaying/Plotting a DTM using various options, such as:
  - Showing either the Surface or the Base DTM,
  - Showing the DTM as either a solid model, or as a "wire frame" model,
  - Using any Viewing Direction or Tilt Angle,
  - Using various colour options for the display,
  - Setting a defined "water line" height and showing the model above and below this in different colour variations,
  - Dynamic rotation and tilting of the DTM display using the keyboard arrow keys (requires a fast PCI)
- Calculating Volumes with the following options:
Determine the Cut and Fill Volumes between the Surface and Base models,
Determine the Cut and Fill Volumes between the Surface model and a defined horizontal plane,
Determine the Cut and Fill Balance Plane height for a Surface model,
Determine the Cut and Fill Volumes between the Surface model and another, User defined, Surface model.

General DTM application options include :-

- Super-imposing a User defined Surface model onto the current Surface model,
- Calculating the DTM slope Surface Area,
- Calculating the Surface Area for a horizontal plane intersecting the Surface model,
- Define and use a sub-area of a Surface model,
- Display a Slope Analysis model of the current Surface model (showing slope vectors).

DTM grid data, including BreakLine information, may be stored in an ASCII format for export to other applications.