



attcalc

MATHS TOOLKIT FOR GEOLOGICAL ATTRIBUTES

Through the extensive list of preset attributes on faults, horizons, fracture networks, elastic models, cellular models etc., TT6 generates the majority of useful quantitative structural information automatically. However, there are some occasions when one or more native attributes are just a stepping stone to another, non-preset, value. For these circumstances there is AttCalc (Attribute Calculator). AttCalc is a tool for operating on preset calculations and pre-existing AttCalc results. So, for example if we need to calculate a fault rock thickness that is based on displacement and depth, we define the relationship in AttCalc and give it a name. It can then be used as though it were, itself, a preset attribute. The definitions are constructed as AttCalc plug-ins and consist of a collection of ANSI C expressions and standard C library calls (e.g. maths functions such as sin, cos, tan etc.).

More advanced plug-ins can be created using "Advanced inputs" fields (i.e. Definitions, Initializations, Functions and Terminations).

AttCalc is, in fact, an extremely powerful maths toolkit. As well as supporting simple operations on and between presets or existing plug-ins it also has facilities for kernel-based operations. The latter opens up the possibility for calculating derivatives, applying filters and/or custom image processing algorithms.

Although the interface is simple to use, for complex or specialist requirements Badleys can always provide assistance with coding the plug-ins.

