Purpose:

To create polylines coded with their linear slope, from 3D polylines. Lines are created between successive pairs of vertices of input polylines. Input polyline FIDs are assigned as OriginalID to the multiple polylines created from each input polyline, allowing a join or relate to the original feature attribute table.

May be used in a model which includes an Interpolate Shape tool to create a 3D shapefile from a 2D shapefile and elevation source. Example model is included.

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