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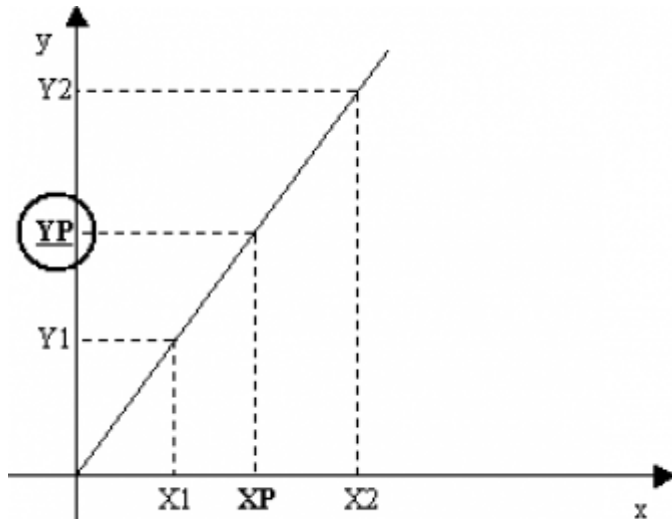
VC12FndYPnt

V = Variables

C = Calculation functions

***** = Replaces the function **VC11FndYPnt**

The VC12FndYPnt function calculates the y-coordinate of a point to a line According to 2 points of the same line(X1-Y1 and X2-Y2) and the x-coordinate of point (XP).



IMPLEMENTATION

VC12FndYPnt (pointX1, pointY1, pointX2, pointY2, pointXP, pointYP)

Parameters:

| IN/OUT | VARIABLE TYPE | EXAMPLE NAME | DIM | |
|--------|------------------|--------------|-----|---|
| IN | SYSTEM or GLOBAL | pointX1 | L/S | Point X1 of the straight line (Abcissa X1) |
| IN | SYSTEM or GLOBAL | pointY1 | L/S | Point Y1 of the straight line (Ordinate Y1) |
| IN | SYSTEM or GLOBAL | pointX2 | L/S | Point X2 of the straight line (Abcissa X2) |
| IN | SYSTEM or GLOBAL | pointY2 | L/S | Point Y2 of the straight line (Ordinate Y2) |
| IN | SYSTEM or GLOBAL | pointXP | L/S | Point X of the straight line for which you want to calculate the abscissa (Y) |
| OUT | SYSTEM or GLOBAL | pointYP | L/S | Point Y of the straight line calculated by the function (Unknown ordinate) |

N.B.: pointX1, pointY1, pointY1, pointY2 between them must be the same size (DIM). All parameters must be the same type (SYSTEM or GLOBAL)

Example

Execute the calculation when the “gfCalc” flag is set to 1.

```

IF gfCalc
  gfCalc = 0
  pointX1 = 100      ;Sets the point values of the straight line
  pointY1 = 600
  pointX2 = 200
  pointY2 = 1200
  pointXP = 150
  VC12FndYPnt (pointX1, pointY1, pointX2, pointY2, pointXP, pointYP)
  gsAbcissaCal = pointYP
ENDIF

```

DIFFERENCES FROM THE OLD RELEASE

- (from 10 to 11) Added the possibility to declare “pointXP” and “pointYP” parameters with Long dimesion (L)
- (from 11 to 12) Introduced the possibility to use GLOBAL type parameters.

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