



Equations used:

$$\text{DistRes} = (\text{FreqRes} / \text{ChirpRate}) * c / 2$$

$$\text{FreqRes} = (1 / (\text{pntTime} - \text{range} * 2 / c))$$

$$\text{ChirpRate} = \text{ChirpBandwd} / \text{pntTime}$$

So:

$$\text{DistRes} = (c / 2) * (1 / (1 - \text{pntPerSec} * \text{range} * 2 / c)) * (1 / \text{chirpBW})$$

Parameters used:

PntPerSec: 50000 --> pntTime: 20.00 Usecs

ChirpBw: 2.00 GHz