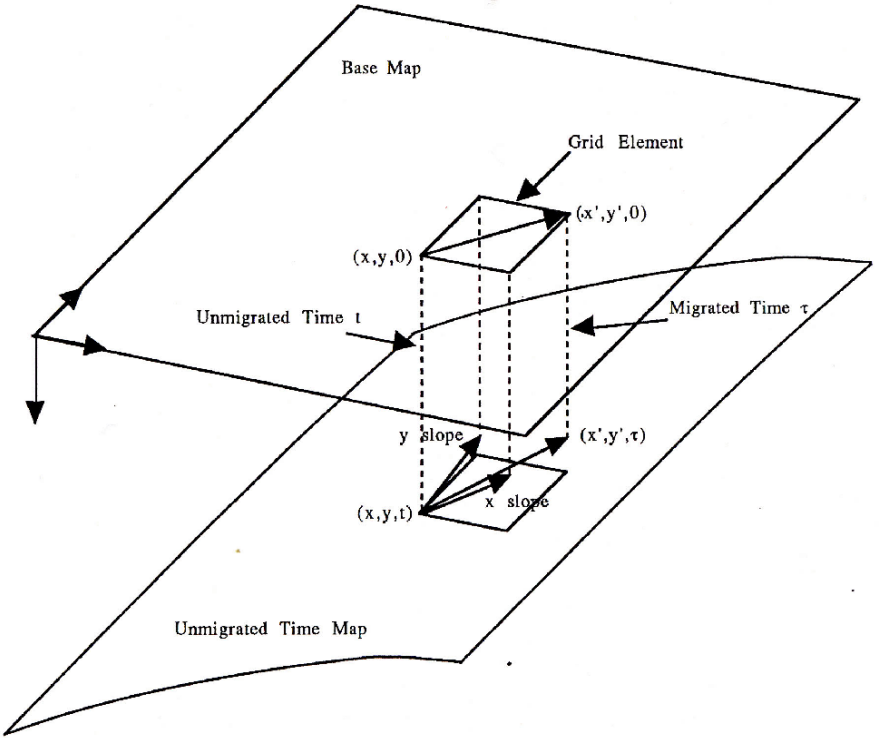

$$A_x = \frac{v}{2} \cdot \frac{\Delta t_x}{\Delta x} = \tan \beta_x$$

$$A_y = \frac{v}{2} \cdot \frac{\Delta t_y}{\Delta x} = \tan \beta_y$$

$$x' = x - \frac{vt}{2} \cdot A_x$$

$$y' = y - \frac{vt}{2} \cdot A_y$$

$$\tau = t \sqrt{1 - \frac{v^2}{4}(A_x^2 + A_y^2)}$$

BASIC TIME MIGRATION ALGORITHM VELOCITY VARIES BUT IS CONSTANT AT EACH TIME POINT.