

The standard formulae for dinosaur velocities are based upon:

$$\frac{l}{h} = 2.3 \left[\frac{v^2}{gh} \right]^{0.3}, \text{ where}$$

l = stride length
 h = hip height
 $g = 9.8 \text{ m/sec}^2$
 v = velocity

from Alexander.⁵⁹