$$\frac{2}{\alpha} \left(\times_{\text{MAX}} \right) = (0.111111)_{2} \cdot 2^{5} = (111111)_{2} = \cdots$$

$$= (1 \cdot 2^{5} + 1 \cdot 2^{4} = \cdots$$

$$= (32 + 16 + 8 + 4 + 2 + 1 + 0.5)_{0} = \cdots$$

$$= (63.5)_{10}$$

$$(\times_{\text{MAX}}) = (0.100000)_{2} \cdot 2^{4} = (0.00001)_{2} = \cdots$$

$$= 1 \cdot 2^{5}$$

$$= (0.03125)_{10}$$