$|(10) \Rightarrow base 2 \Rightarrow |\cdot 2^{\circ} = |(10) \Rightarrow |(2)$ $|(16) \Rightarrow base 8 \Rightarrow |\cdot 8^{\circ} = |(10) \Rightarrow |(8)$ $|(10) \Rightarrow base |(6 \Rightarrow |\cdot |6^{\circ} = |(10) \Rightarrow |(10)$

 $10_{(10)} \Rightarrow base 2 \Rightarrow 12^{4} + 1.2^{4} = 1010_{(2)}$ $10_{(10)} \Rightarrow base 8 \Rightarrow 1.8^{4} + 0.2.8^{\circ} = 12_{(8)}$ $10_{(10)} \Rightarrow base 16 \Rightarrow 20.16^{\circ} = A_{(16)}$

 $42_{(10)} \Rightarrow base 2 \Rightarrow 1.2 + 0.2 + 1.2 + 0.2 + 1.2 + 0.2 = 101010_{(2)}$ $42_{(10)} \Rightarrow base 8 \Rightarrow 5.8 + 2.8 = 52(8)$ $42_{(10)} \Rightarrow base 6 \Rightarrow 2.16 + 10.16 = 2A_{(16)}$

 $255_{(10)} \Rightarrow base 2 \Rightarrow 1.2^{7} + 1.2^{6} + 1.2^{5} + 1.2^{4} + 1.2^{3} + 1.2^{2} - 1.2^{1} + 1.2^{6} = 1111111_{(2)}$ $213_{(10)} \Rightarrow base 8 \Rightarrow 2.8^{2} + 2.8^{6} + 2.8^{6} = 263/(8)$ $255_{(10)} \Rightarrow base 8 \Rightarrow 3.8^{2} + 2.8^{6} + 2.8^{6} = 263/(8)$ $255_{(10)} \Rightarrow base 16 \Rightarrow 26.6^{6} + 15.6^{6} = FF_{(16)}$

 $F_{(16)} \Rightarrow base 10 \Rightarrow 15.10^{\circ} = 15a_{0}$ $F_{(16)} \Rightarrow base 8 \Rightarrow 1.8' + 7.8^{\circ} = 17(8)$ $F_{(16)} \Rightarrow base 2 \Rightarrow 1.2^{3} + 1.2' + base 1.2^{\circ} = 1111(a)$

Base Conversions (Continued)

 $8|(16) \rightarrow base 10 \rightarrow 9.10' + 6.10° = 96(10)$ $8|(16) \rightarrow base 8 \rightarrow 1.8^2 + 4.8' + 0.8° = 140(8)$ $8|(16) \rightarrow base 2 \rightarrow 1.2^7 + 0.2^6 + 0.2^5 + 0.2^4 + 0.2^3 + 0.2^2 + 0.2^4 + 0.2^6 + 0.2$

04(16) -> base 10 -> 4.10° = 4(10) 04(16) -> base 8 -> 4000 4.8° = 4(8) 04(16) -> base 2 -> 1.2² +0.2′ +0.2° = 6100(2)

 $|00160011(1) \Rightarrow base |0 \Rightarrow 2 \cdot 10^2 + 9 \cdot 10^4 + 1 \cdot 10^\circ = 29100$ $|00100011(1) \Rightarrow base 8 \Rightarrow 4 \cdot 8^2 + 4 \cdot 8^4 + 3 \cdot 8^\circ = 443(8)$ $|100100011(1) \Rightarrow base 16 \Rightarrow |16^2 + 2 \cdot 16^4 + 3 \cdot 16^\circ = 173(16)$

0011 1111 (2) -> base 10 -> 6.10' + 3.10° = 63(0) 0011 1111 (2) -> base 8 -> 7.8' + 7.8° = 77(8) 0011 1111 (2) -> base 16 -> 3.16' + 15.16° = 3F(16)