

COE-341 Cheat Sheet

by theganesbioss1 via cheatography.com/72445/cs/18329/

Conversions	
0.375 * 2 = 0 + 0.75	Binary: 0.011
0.75 * 2 = 1 + 0.5	0.5 * (1 + 0) = 0.5
0.5 * 2 = 1 + 0	0.5 * (1 + 0.5) = 0.75
Binary : 0.011	0.5 * (0.75) = 0.375

Floating point

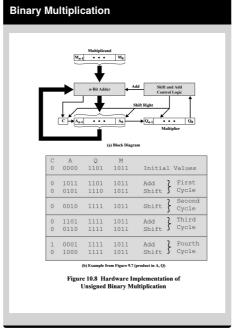
–118.625 using the IEEE 754 system 1110110.101=1.110110101 * $2^{\wedge}6$; This is normalized

Biased exponent = 6+127 = 133 (In binary: 10000101)

1 10000101 110110101000000000000000

Carry Lookahead adder $Pi = ai \oplus bi$ $Gi = ai \cdot bi$ C0 = G0 C1 = G1 + G0P1 C2 = G2 + G1P2 + G0P2P1 Cout = G3 + G2P3 + G1P3P2 + G0P3P2P1Faster than ripple carry

Large OR gates should be used





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