

$$B_2 = Hex(\overbrace{b_1 b_2 b_3 b_4}^{b_4 \ b_3 \atop b_2 \ b_1})$$

$$B_4 = B_1^1 \overbrace{B_2^2 B_3^3 B_4^4}^{B_4 \ B_3 \atop B_2 \ B_1}$$

$$B_8 = B_1^1 \overbrace{B_2^2 B_3^3 B_4^4}^{B_4 \ B_1 \atop B_8 \ B_3}$$