EE 648 – VLSI Design Binary Coded Hexadecimal for a 7 Segment Display



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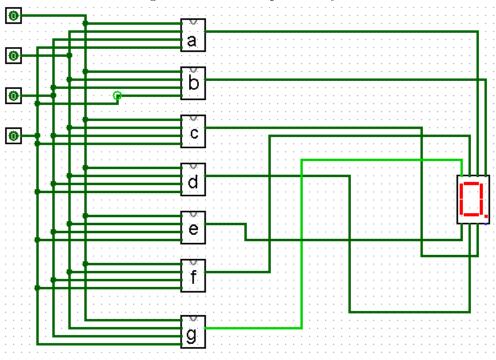


Figure 1: Circuit top level layout

$$a = \overline{(\bar{A}\bar{B}\bar{C}D)(\bar{A}B\bar{C}\bar{D})(\bar{A}\bar{B}CD)(\bar{A}B\bar{C}D)}$$
(1)

$$b = \overline{(\bar{A}B\bar{C}D)(BC\bar{D})(ACD)}\overline{(AB\bar{D})}$$
 (2)

$$c = \overline{(\bar{A}\bar{B}C\bar{D})(\bar{A}B\bar{D})(\bar{A}BC)}$$
 (3)

$$d = \overline{(\bar{B}\bar{C}D)(\bar{A}B\bar{C}\bar{D})(\bar{B}CD)}\overline{A\bar{B}C\bar{D}}$$

$$\tag{4}$$

$$e = \overline{(\bar{A}D)(\bar{B}\bar{C}D)(\bar{A}B\bar{C})} \tag{5}$$

$$f = \overline{(\bar{A}\bar{B}D)(\bar{A}\bar{B}C)(\bar{A}CD)(\bar{A}B\bar{C}D)}$$
(6)

$$g = \overline{(\bar{A}\bar{B}\bar{C})(\bar{A}BCD)(\bar{A}B\bar{C}\bar{D})}$$
 (7)