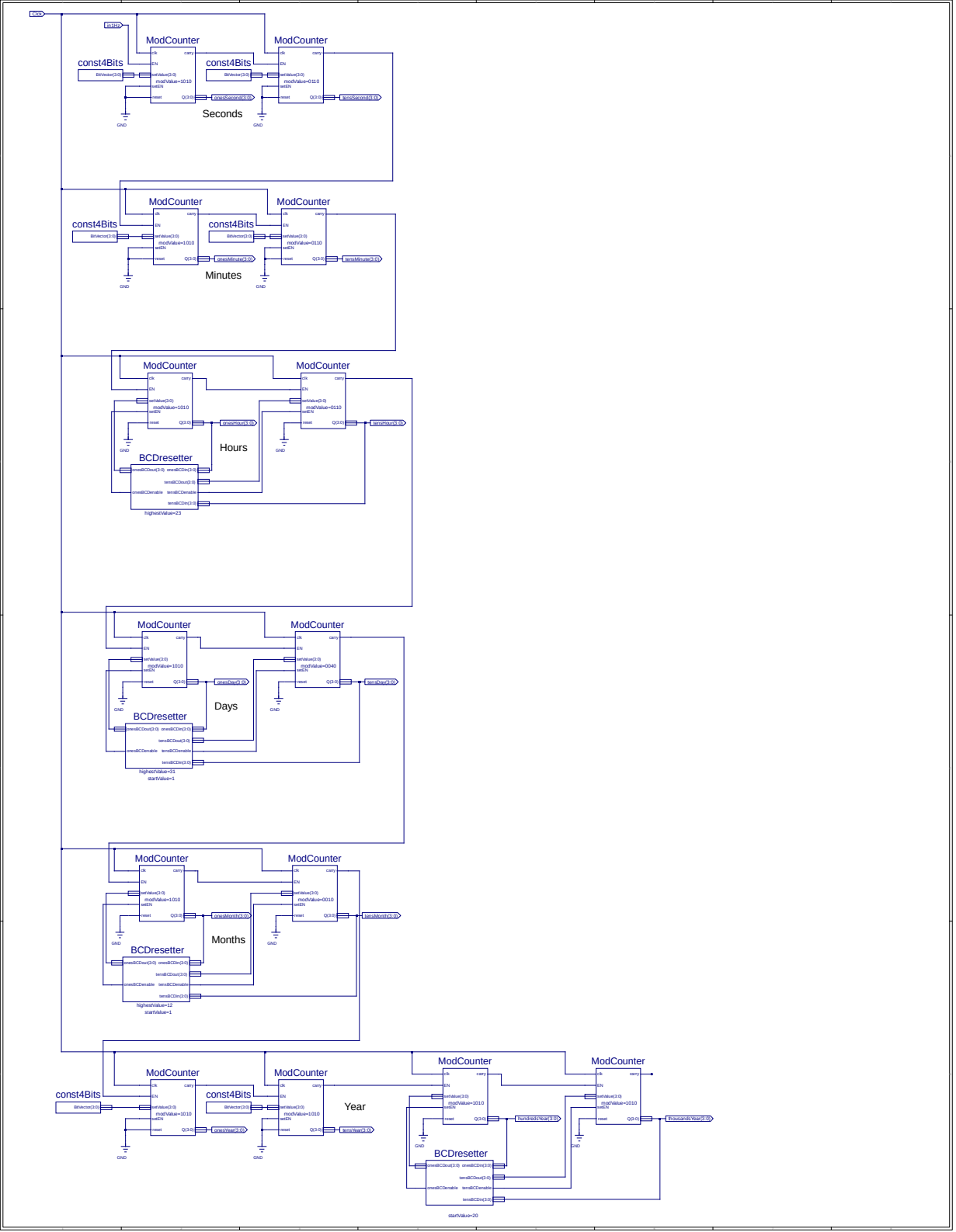

Clk
in3Hz
ModCounter
const4Bits
BitVector(3:0)
modValue=1010
modValue=0110
onesSecond(3:0)
tensSecond(3:0)
Seconds
GND
onesMinute(3:0)
tensMinute(3:0)
Minutes
onesHour(3:0)
tensHour(3:0)
Hours
BCDresetter
onesBCDout(3:0)
onesBCDin(3:0)
tensBCDout(3:0)
onesBCDenable
tensBCDenable
tensBCDin(3:0)
highestValue=23
onesDay(3:0)
tensDay(3:0)
Days
highestValue=31
startValue=1
onesMonth(3:0)
tensMonth(3:0)
Months
highestValue=12
startValue=1
onesYear(3:0)
tensYear(3:0)
Year
hundredsYear(3:0)
thousandsYear(3:0)
startValue=20