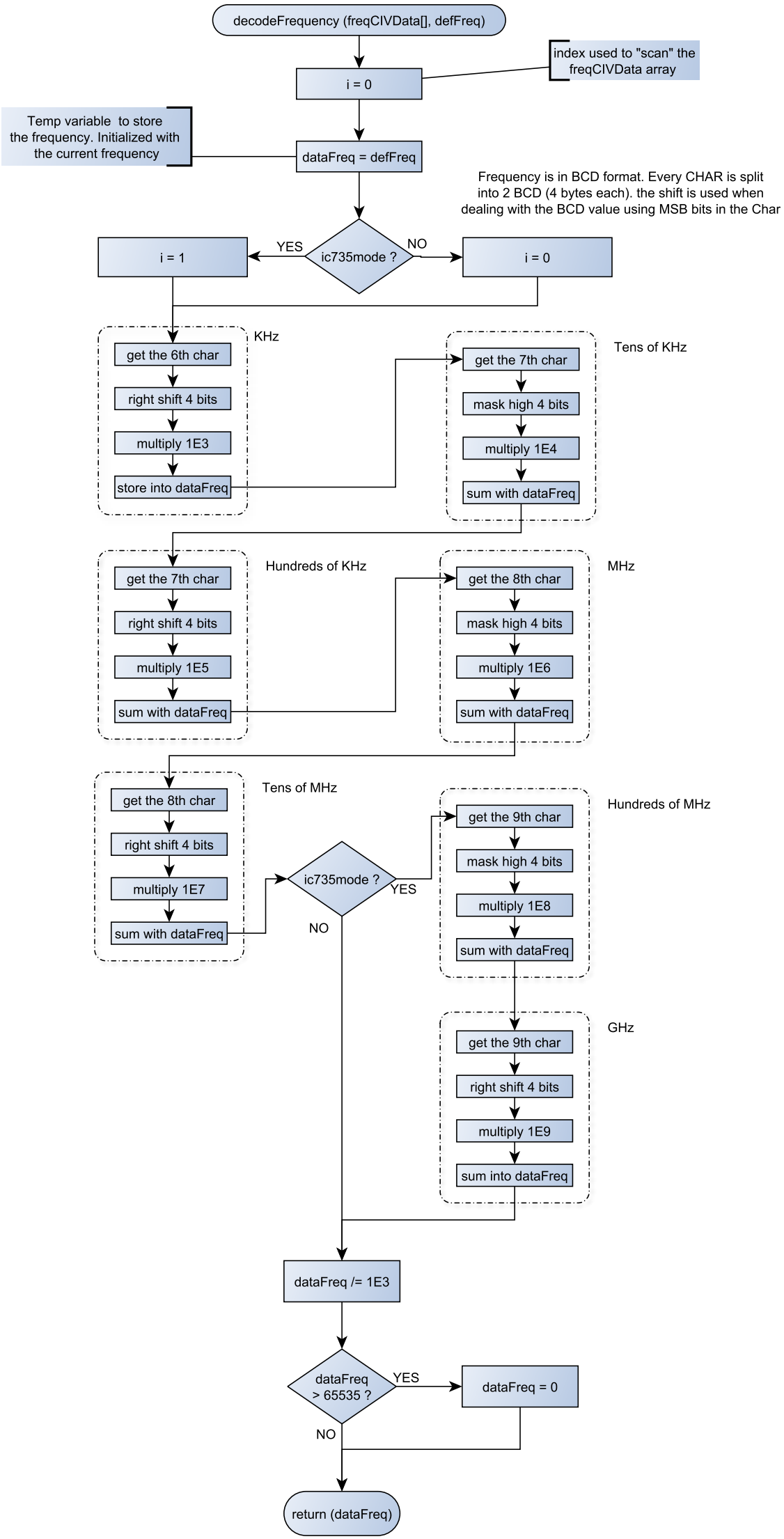
decodeFrequency (freqCIVData[], defFreq)
i = 0
index used to "scan" the freqCIVData array
Temp variable to store the frequency. Initialized with the current frequency
dataFreq = defFreq
Frequency is in BCD format. Every CHAR is split into 2 BCD (4 bytes each). the shift is used when dealing with the BCD value using MSB bits in the Char
ic735mode ?
YES
NO
i = 1
i = 0
KHz
get the 6th char
right shift 4 bits
multiply 1E3
store into dataFreq
Tens of KHz
get the 7th char
mask high 4 bits
multiply 1E4
sum with dataFreq
Hundreds of KHz
get the 7th char
right shift 4 bits
multiply 1E5
sum with dataFreq
MHz
get the 8th char
mask high 4 bits
multiply 1E6
sum with dataFreq
Tens of MHz
get the 8th char
right shift 4 bits
multiply 1E7
sum with dataFreq
ic735mode ?
YES
NO
Hundreds of MHz
get the 9th char
mask high 4 bits
multiply 1E8
sum with dataFreq
GHz
get the 9th char
right shift 4 bits
multiply 1E9
sum into dataFreq
dataFreq /= 1E3
dataFreq > 65535 ?
YES
NO
dataFreq = 0
return (dataFreq)