following is my opinion, for a softcore system, its potential can be written as

$$V= \sum_{bonds}() + \sum_{angles}() + \sum_{torsions}() + \sum_{vdW}() \quad \text{only common atoms}$$

$$+ \sum_{bonds}() + \sum_{angles}() + \sum_{torsions}() + \sum_{vdW}() \quad \text{only softcore atoms}$$

$$+ \sum_{bonds}() + \sum_{angles}() + \sum_{torsions}() + \sum_{vdW}() \quad \text{common-softcore atoms}$$

using softcore formula

on the basis of linear mixing rule, $V(\lambda)=(1-\lambda)V0 + \lambda V1$, i couldn't draw a conclusion as the amber10 manual. please help me out.