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Claire W Wladis* (cwwladis@gmail.com). *Distortion of Subgroups of the Generalized Thompson groups $F(n_1, \dots, n_k)$.*

Thompson groups $F(n_1, \dots, n_k)$, where k is a natural number greater than 1 and $n_1 - 1$ divides n_i for all i , show some subgroup behavior that is similar to other known Thompson groups and some behavior that is distinct. Cyclic subgroups are undistorted in these groups, but any subgroup $F(n_i)$, $i \leq k$ for which there exists $j \leq k$ such that $n_i - 1$ divides $n_j - 1$, will be distorted in the larger group. This is in direct contrast to other known generalized Thompson's groups; for example, it is known that for any n and m , $F(n)$ embeds quasi-isometrically into $F(m)$. (Received August 14, 2008)