On congruence lattices of some lattices
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For a class $\mathcal{K}$ of algebras let $\operatorname{Con} \mathcal{K}$ denote the class of all lattices isomorphic to $\operatorname{Con} A$ (the congruence lattice of $A$ ) for some $A \in \mathcal{K}$. The critical point between classes $\mathcal{K}$ and $\mathcal{L}$ is the number of compact elements of the smallest lattice in Con $\mathcal{K} \backslash \operatorname{Con} \mathcal{L}$ (or $\infty$ if no such lattice exists). We discuss the critical points for some varieties of lattices.

