ABSTRACT. We study the natural inclusions of $C^b(X) \otimes A$ into $C^b(X, A)$ and $C^b(X, C^b(Y))$ into $C^b(X \times Y)$. In particular, excepting trivial cases, both these maps are isomorphisms only when X and Y are pseudocompact. This implies a result of Glicksberg showing that the Stone-Čech compactification $\beta(X \times Y)$ is naturally identified with $\beta X \times \beta Y$ if and only if X and Y are pseudocompact.