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We look at separate continuity of lattice-valued functions defined on the product of lattices. In particular, we are interested in lattices in which the join and meet operators are separately continuous, and when such lattices are topological lattices. We also consider semilattices with separately continuous join or meet operations and their relation to topological semilattices, as well as topological semilattices with separately continuous join or meet operations and their relation to topological lattices. (Received September 03, 2012)