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These variables can differ substantially from XS and MS, but coordinating dyadic calculations with monadic ones in the model's base year generally limits that. A simple normalization of dyadic values for each to XS and MS would result in dyadic trade export and import values that are not mirrored within the dyad. To assure that they do, an iterative process is used that alternates between adjustment of the normalized sector and dyad specific values toward each other and additional normalizations until stable and mirrored values for the dyadic flows are reached that sum very closely to XS and MS. The iterative normalization procedure for doing this involves two functions, AdjustXDyadic which manages the iterations and AdjustXSecDyadicFix which does each iteration. Once the dyadic values sum properly to XS and MS, they will also sum across sectors to monadic values of total exports and imports (X and M).

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