$$(\mathbf{d}_1 \mathbin{\fatsemi} \mathbf{d}_2) \mathbin{\fatsemi} \mathbf{d}_3 = \langle \mathbf{F}_1, \mathbf{R}_3, \mathbf{I}_{1,3}, \mathsf{prov}_{1,3}, \mathsf{req}_{1,3} \rangle$$