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CCF[ $\mathcal{E}$ ] := PPCCF@Factor[ $\mathcal{E}$ ];
(*Coefficient Canonical Form *)
LogReduce[ $\mathcal{E}$ ] :=
   $\mathcal{E} /. \mathbf{c}_* \text{Log}[\mathbf{a}_*] \Rightarrow \text{Log}@Factor[\mathbf{a}^{\mathbf{c}}] //.$ 
  Log[ $\mathbf{a}_*$ ] + Log[ $\mathbf{b}_*$ ]  $\Rightarrow$  Log@Factor[ $\mathbf{a} \mathbf{b}$ ];
CF[ $\mathcal{E}$ ] := PPCF@Module[
  { $\mathbf{vs} = \text{Cases}[\mathcal{E}, (\mathbf{y} | \mathbf{a} | \mathbf{x} | \boldsymbol{\eta} | \boldsymbol{\beta} | \boldsymbol{\tau} | \boldsymbol{\xi})_*, \infty] \cup$ 
    { $\mathbf{y}, \mathbf{a}, \mathbf{x}, \boldsymbol{\eta}, \boldsymbol{\beta}, \boldsymbol{\tau}, \boldsymbol{\xi}$ }},
  Total[(CCF[ $\#$ [[2]]]  $\times$  (Times @@  $\mathbf{vs}^{\#$ [[1]])) & /@
    CoefficientRules[ $\mathcal{E}, \mathbf{vs}$ ]]
];
CF[ $\mathcal{E}_{\mathbb{E}}$ ] := CF /@ MapAt[LogReduce,  $\mathcal{E}, 1$ ];
CF[ $\mathcal{U}_{\mathbb{U}}$ ] := CF /@ MapAt[LogReduce,  $\mathcal{U}, 1$ ];
CF[ $\mathcal{E}_{\text{List}}$ ] := CF /@  $\mathcal{E}$ ;
CF[ $\mathbb{E}_{sp\_}[\mathcal{ES}\_]$ ] := CF /@  $\mathbb{E}_{sp}[\mathcal{ES}]$ ;
CF[ $\mathbb{U}_{sp\_}[\mathcal{US}\_]$ ] := CF /@  $\mathbb{U}_{sp}[\mathcal{US}]$ ;

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