

The T_EXPower bundle

`\stepwise` Example: An Aligned Equation

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$$\min \left(\max \left(\begin{array}{c} \vdots \\ \vdots \end{array}, \begin{array}{c} \vdots \\ \vdots \end{array} \right), \begin{array}{c} \vdots \\ \vdots \end{array} \right) \quad (1)$$

$$\min \left(\max \left(\begin{array}{l} \min (F'(x), \min (F_1(x), G_1(y))) \\ \vdots \end{array} \right), \right) \quad (1)$$

$$\min \left(\max \left(\begin{array}{l} \min (F'(x), \min (F_1(x), G_1(y))) \\ \vdots \\ \min (F'(x), \min (F_n(x), G_n(y))) \end{array} \right), \right) \quad (1)$$

$$\min \left(\max \left(\begin{array}{l} \min (F'(x), \min (F_1(x), G_1(y))) \\ \vdots \\ \min (F'(x), \min (F_n(x), G_n(y))) \end{array} \right), \min (G_i(y), H_i(z)) \right) \quad (1)$$

$$\min \left(\max \left(\begin{array}{c} \min (F'(x), \min (F_1(x), G_1(y))) \\ \vdots \\ \min (F'(x), \min (F_n(x), G_n(y))) \end{array} \right), \min (G_i(y), H_i(z)) \right) \right) \quad (1)$$

$$= \max \left(\begin{array}{c} \min \left(\min (\quad , \min (\quad) \right), \min (G_i(y), H_i(z)) \right) \\ \vdots \\ \min \left(\min (\quad , \min (\quad) \right), \min (G_i(y), H_i(z)) \right) \end{array} \right) \quad (2)$$

$$= \max \left(\begin{array}{c} \min \left(\min \left(\quad , \min \left(\quad , \min (\quad , G_i(y)) \right) \right), H_i(z) \right) \\ \vdots \\ \min \left(\min \left(\quad , \min \left(\quad , \min (\quad , G_i(y)) \right) \right), H_i(z) \right) \end{array} \right) \quad (3)$$

$$\min \left(\max \left(\begin{array}{l} \min (F'(x), \min (F_1(x), G_1(y))) \\ \vdots \\ \min (F'(x), \min (F_n(x), G_n(y))) \end{array} \right), \min (G_i(y), H_i(z)) \right) \quad (1)$$

$$= \max \left(\begin{array}{l} \min \left(\min (F'(x), \min (F_1(x), G_1(y))), \min (G_i(y), H_i(z)) \right) \\ \vdots \\ \min \left(\min (F'(x), \min (F_n(x), G_n(y))), \min (G_i(y), H_i(z)) \right) \end{array} \right) \quad (2)$$

$$= \max \left(\begin{array}{l} \min \left(\min \left(F'(x), \min \left(F_1(x), \min (G_1(y), G_i(y)) \right) \right), H_i(z) \right) \\ \vdots \\ \min \left(\min \left(F'(x), \min \left(F_n(x), \min (G_n(y), G_i(y)) \right) \right), H_i(z) \right) \end{array} \right) \quad (3)$$

$$\min \left(\max \left(\begin{array}{c} \min (F'(x), \min (F_1(x), G_1(y))) \\ \vdots \\ \min (F'(x), \min (F_n(x), G_n(y))) \end{array} \right), \min (G_i(y), H_i(z)) \right) \right) \quad (1)$$

$$= \max \left(\begin{array}{c} \min \left(\min (F'(x), \min (F_1(x), G_1(y))), \min (G_i(y), H_i(z)) \right) \\ \vdots \\ \min \left(\min (F'(x), \min (F_n(x), G_n(y))), \min (G_i(y), H_i(z)) \right) \end{array} \right) \right) \quad (2)$$

$$= \max \left(\begin{array}{c} \min \left(\min \left(F'(x), \min \left(F_1(x), \min (G_1(y), G_i(y)) \right) \right), H_i(z) \right) \\ \vdots \\ \min \left(\min \left(F'(x), \min \left(F_n(x), \min (G_n(y), G_i(y)) \right) \right), H_i(z) \right) \end{array} \right) \right) \quad (3)$$

$$= \min \left(F'(x), \min \left(\max \left(\begin{array}{c} \min (F_1(x), \min (G_1(y), G_i(y))) \\ \vdots \\ \min (F_n(x), \min (G_n(y), G_i(y))) \end{array} \right), H_i(z) \right) \right) \right) \quad (4)$$