

Step	Algorithm: $\alpha := x^T y + \alpha$
1a	$\{\alpha = \hat{\alpha}$ }
4	$x \rightarrow \begin{pmatrix} x_T \\ x_B \end{pmatrix}, y \rightarrow \begin{pmatrix} y_T \\ y_B \end{pmatrix}$ where x_B has 0 rows, y_B has 0 rows
2	$\{\alpha = x_B^T y_B + \hat{\alpha}$ }
3	while $m(x_B) < m(x)$ do
2,3	$\{ \alpha = x_B^T y_B + \hat{\alpha} \wedge m(x_B) < m(x)$ }
5a	$\begin{pmatrix} x_T \\ x_B \end{pmatrix} \rightarrow \begin{pmatrix} x_0 \\ \chi_1 \\ x_2 \end{pmatrix}, \begin{pmatrix} y_T \\ y_B \end{pmatrix} \rightarrow \begin{pmatrix} y_0 \\ \psi_1 \\ y_2 \end{pmatrix}$ where χ_1 has 1 row, ψ_1 has 1 row
6	$\{ \alpha = x_2^T y_2 + \hat{\alpha}$ }
8	$\alpha := \chi_1 \times \psi_1 + \alpha$
7	$\{ \alpha = \chi_1 \times \psi_1 + x_2^T y_2 + \hat{\alpha}$ }
5b	$\begin{pmatrix} x_T \\ x_B \end{pmatrix} \leftarrow \begin{pmatrix} x_0 \\ \chi_1 \\ x_2 \end{pmatrix}, \begin{pmatrix} y_T \\ y_B \end{pmatrix} \leftarrow \begin{pmatrix} y_0 \\ \psi_1 \\ y_2 \end{pmatrix}$
2	$\{ \alpha = x_B^T y_B + \hat{\alpha}$ }
	endwhile
2,3	$\{\alpha = x_B^T y_B + \hat{\alpha} \wedge \neg(m(x_B) < m(x))$ }
1b	$\{\alpha = x^T y + \alpha$ }

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4	where
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3	while do
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	endwhile
2,3	{ $\wedge \neg($) }
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