

Step	Algorithm: $C := AB + C$
1a	$\{C = \widehat{C}\}$
4	$B \rightarrow \left(B_L \middle B_R \right), C \rightarrow \left(C_L \middle C_R \right)$ where B_R has 0 columns, C_R has 0 columns
2	$\left\{ \left(C_L \middle C_R \right) = \left(\widehat{C}_L \middle AB_R + \widehat{C}_R \right) \right\}$
3	while $n(B_R) < n(B)$ do
2,3	$\left\{ \left(C_L \middle C_R \right) = \left(\widehat{C}_L \middle AB_R + \widehat{C}_R \right) \wedge n(B_R) < n(B) \right\}$
5a	Determine block size b $\left(B_L \middle B_R \right) \rightarrow \left(B_0 \ B_1 \middle B_2 \right), \left(C_L \middle C_R \right) \rightarrow \left(C_0 \ C_1 \middle C_2 \right)$ where B_1 has b columns, C_1 has b columns
6	$\left\{ \left(C_0 \ C_1 \ C_2 \right) = \left(\widehat{C}_0 \ \widehat{C}_1 \ AB_2 + \widehat{C}_2 \right) \right\}$
8	$C_1 := AB_1 + C_1$
7	$\left\{ \left(C_0 \ C_1 \ C_2 \right) = \left(\widehat{C}_0 \ AB_1 + \widehat{C}_1 \ AB_2 + \widehat{C}_2 \right) \right\}$
5b	$B \rightarrow \left(B_L \middle B_R \right) \leftarrow \left(B_0 \middle B_1 \ B_2 \right), C \rightarrow \left(C_L \middle C_R \right) \leftarrow \left(C_0 \middle C_1 \ C_2 \right)$
2	$\left\{ \left(C_L \middle C_R \right) = \left(\widehat{C}_L \middle AB_R + \widehat{C}_R \right) \right\}$
	endwhile
2,3	$\left\{ \left(C_L \middle C_R \right) = \left(\widehat{C}_L \middle AB_R + \widehat{C}_R \right) \wedge \neg(n(B_R) < n(B)) \right\}$
1b	$\{C = AB + \widehat{C}\}$

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4	where
2	{
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2,3	{ \wedge }
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6	{
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	endwhile

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