

Step	<b>Algorithm:</b> $[B] := \text{TRMM\_BLK\_VAR1}(L, B)$
1a	$B = \widehat{B}$
4	$L \rightarrow \left( \begin{array}{c c} L_{TL} & L_{TR} \\ \hline L_{BL} & L_{BR} \end{array} \right), B \rightarrow \left( \begin{array}{c} B_T \\ \hline B_B \end{array} \right)$ <p>where <math>L_{BR}</math> is <math>0 \times 0</math>, <math>B_B</math> has 0 rows</p>
2	$\left( \begin{array}{c} B_T \\ \hline B_B \end{array} \right) = \left( \begin{array}{c} \widehat{B}_T \\ \hline \widehat{B}_B \end{array} \right)$
3	<b>while</b> $m(L_{BR}) < m(L)$ <b>do</b>
2,3	$\left( \begin{array}{c} B_T \\ \hline B_B \end{array} \right) = \left( \begin{array}{c} \widehat{B}_T \\ \hline \widehat{B}_B \end{array} \right) \wedge m(L_{BR}) < m(L)$
5a	<p><b>Determine block size <math>b</math></b></p> $\left( \begin{array}{c c} L_{TL} & L_{TR} \\ \hline L_{BL} & L_{BR} \end{array} \right) \rightarrow \left( \begin{array}{c c c} L_{00} & L_{01} & L_{02} \\ \hline L_{10} & L_{11} & L_{12} \\ \hline L_{20} & L_{21} & L_{22} \end{array} \right), \left( \begin{array}{c} B_T \\ \hline B_B \end{array} \right) \rightarrow \left( \begin{array}{c} B_0 \\ \hline B_1 \\ \hline B_2 \end{array} \right)$ <p>where <math>L_{11}</math> is <math>b \times b</math>, <math>B_1</math> has <math>b</math> rows</p>
6	$\left( \begin{array}{c} B_0 \\ \hline B_1 \\ \hline B_2 \end{array} \right) = \left( \begin{array}{c} \widehat{B}_0 \\ \hline B_1 \\ \hline L_{22} \widehat{B}_2 \end{array} \right)$
8	
5b	$\left( \begin{array}{c c} L_{TL} & L_{TR} \\ \hline L_{BL} & L_{BR} \end{array} \right) \leftarrow \left( \begin{array}{c c c} L_{00} & L_{01} & L_{02} \\ \hline L_{10} & L_{11} & L_{12} \\ \hline L_{20} & L_{21} & L_{22} \end{array} \right), \left( \begin{array}{c} B_T \\ \hline B_B \end{array} \right) \leftarrow \left( \begin{array}{c} B_0 \\ \hline B_1 \\ \hline B_2 \end{array} \right)$
7	$\left( \begin{array}{c} B_0 \\ \hline B_1 \\ \hline B_2 \end{array} \right) = \left( \begin{array}{c} \widehat{B}_0 \\ \hline L_{11} \widehat{B}_1 \\ \hline L_{21} \widehat{B}_1 + L_{22} \widehat{B}_2 \end{array} \right)$
2	$\left( \begin{array}{c} B_T \\ \hline B_B \end{array} \right) = \left( \begin{array}{c} \widehat{B}_T \\ \hline \widehat{B}_B \end{array} \right)$
	<b>endwhile</b>
2,3	$\left( \begin{array}{c} B_T \\ \hline B_B \end{array} \right) = \left( \begin{array}{c} \widehat{B}_T \\ \hline \widehat{B}_B \end{array} \right) \wedge \neg(m(L_{BR}) < m(L))$
1b	$[B] = \text{trmm}(L, \widehat{B})$

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Step	Algorithm: $[B] := \text{TRMM\_BLK\_VAR1}(L, B)$
1a	$B = \hat{B}$
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3	while do
2,3	$\wedge$
5a	Determine block size  where
6	
8	
5b	
7	
2	
	endwhile
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	where
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3	while do
2,3	$\left(\frac{B_T}{B_B}\right) = \left(\frac{\hat{B}_T}{\hat{B}_B}\right) \wedge$
5a	Determine block size
	where
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8	
5b	
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2,3	$\left(\frac{B_T}{B_B}\right) = \left(\frac{\hat{B}_T}{\hat{B}_B}\right) \wedge m(L_{BR}) < m(L)$
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	endwhile

<b>Algorithm:</b> $[B] := \text{TRMM\_BLK\_VAR1}(L, B)$
$L \rightarrow \left( \begin{array}{c c} L_{TL} & L_{TR} \\ \hline L_{BL} & L_{BR} \end{array} \right), B \rightarrow \left( \begin{array}{c} B_T \\ \hline B_B \end{array} \right)$ <p> <b>where</b> <math>L_{BR}</math> is <math>0 \times 0</math>, <math>B_B</math> has 0 rows  <b>while</b> <math>m(L_{BR}) &lt; m(L)</math> <b>do</b>              <b>Determine block size</b> <math>b</math>              <math display="block">\left( \begin{array}{c c} L_{TL} &amp; L_{TR} \\ \hline L_{BL} &amp; L_{BR} \end{array} \right) \rightarrow \left( \begin{array}{c c c} L_{00} &amp; L_{01} &amp; L_{02} \\ \hline L_{10} &amp; L_{11} &amp; L_{12} \\ \hline L_{20} &amp; L_{21} &amp; L_{22} \end{array} \right), \left( \begin{array}{c} B_T \\ \hline B_B \end{array} \right) \rightarrow \left( \begin{array}{c} B_0 \\ \hline B_1 \\ \hline B_2 \end{array} \right)</math> <p>             <b>where</b> <math>L_{11}</math> is <math>b \times b</math>, <math>B_1</math> has <math>b</math> rows              <math display="block">B_2 := L_{21}B_1 + B_2B_1 := L_{11}B_1</math> <math display="block">\left( \begin{array}{c c} L_{TL} &amp; L_{TR} \\ \hline L_{BL} &amp; L_{BR} \end{array} \right) \leftarrow \left( \begin{array}{c c c} L_{00} &amp; L_{01} &amp; L_{02} \\ \hline L_{10} &amp; L_{11} &amp; L_{12} \\ \hline L_{20} &amp; L_{21} &amp; L_{22} \end{array} \right), \left( \begin{array}{c} B_T \\ \hline B_B \end{array} \right) \leftarrow \left( \begin{array}{c} B_0 \\ \hline B_1 \\ \hline B_2 \end{array} \right)</math> <p>             <b>endwhile</b> </p> </p></p>