

baseurl=http://tvmet.sourceforge.net, pdftitle=tvmet 1.7.2 Reference Manual, pdfauthor=© Olaf Petzold, pdfsubject=This Tiny Vector and Matrix C++ template library uses Meta Templates and Expression Templates to evaluate results at compile time - to make it fast for low order (tiny) systems. , pdfkeywords=tiny vector matrix fast C++ STL template library expression templates meta templates fixed size fixed dimension matrix-matrix matrix-vector vector-matrix binary unary operations operators product transpose linear algebra cross product dot product type promotion exception linux kernel embedded system regression test gcc g++ blitz blitz++ TinyVector TinyMatrix MTL TNT gnu compiler suite portland group c++ kai c++ intel compiler LGPL , bookmarks=true, bookmarksnumbered=true, bookmarksopen=true, pdfpage-labels=true, pdfmenubar=true, pdftoolbar=true, plainpages=false, pdfstartview=FitH, pdfpagemode=UseOutlines, pdfhighlight=/I

$$M_1 M_2$$

$$M_1 M_2^T$$

$$M_1^T M_2$$

$$M^T v$$

Mv

$$(M_1\,M_2)^T$$

$$M^T x$$

$$\sum_{i=0}^{Sz-1} v[i]$$

$$\prod_{i=0}^{Sz-1} v[i]$$

$$\sum_{i=0}^{Sz-1} (lhs[i] * rhs[i])$$

$$|Vector < T, Sz > v| = |v| = \sum_{i=0}^{Sz-1} |v[i]|$$

l_2

$$|Vector < T, Sz > v| = |v| = \sqrt{\sum_{i=0}^{Sz-1} v[i]^2}$$

$$\frac{Vector < T, Sz > v}{\sqrt{\sum_{i=0}^{Sz-1} v[i]^2}}$$

$$M_1 M_2^T$$

M M

$$M^T$$

Mx

$$M^T x$$

$$M^T M$$

$$M M^T$$

$$(M\,M)^T$$

$$A = A * B$$

$$C = A * B$$