PBblas/

# tran

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## IMPORTS

PBblas | PBblas.Types | PBblas.internal | PBblas.internal.Types | PBblas.internal.MatDims | PBblas.internal.Converted | std.BLAS | std.system.Thorlib |

## DESCRIPTIONS

### FUNCTION tran

| DATASET(Layout_Cell) | **tran** |
|---|---|
| (value_t alpha, DATASET(Layout_Cell) A, value_t beta=0, DATASET(Layout_Cell) C=empty_c) | |

Transpose a matrix and sum into base matrix result <== alpha * A**t + beta * C, A is n by m, C is m by n A**T (A Transpose) and C must have same shape

**PARAMETER** **alpha** Scalar multiplier for the A**T matrix

**PARAMETER** **A** A matrix in DATASET(Layout_Cell) form

**PARAMETER** **beta** Scalar multiplier for the C matrix

**PARAMETER** **C** C matrix in DATASET(Layout_Call) form

**RETURN** Matrix in DATASET(Layout_Cell) form alpha * A**T + beta * C

**SEE** PBblas/Types.layout_cell