$\mathbf{x}^T\mathbf{y}\ (\mathbf{x}^H\mathbf{y})$: `dot = psb_gedot(x,y,desc_a,info)`

$\mathbf{y} \leftarrow \alpha\mathbf{x} + \beta\mathbf{y}$: `call psb_geaxpby(alpha,x,beta,y,desc_a,info)`

$\max_i |x_i|$: `amax = psb_geamax(x,desc_a,info)`

$\sum_i |x_i|$: `asum = psb_geasum(x,desc_a,info)`

$\|\mathbf{x}\|_2$: `nrm2 = psb_genrm2(x,desc_a,info)`

$\|\mathbf{A}\|_\infty$: `nrmi = psb_spnrmi(A,desc_a,info)`

$\mathbf{y} \leftarrow \alpha A^T\mathbf{x} + \beta\mathbf{y}$: `call psb_spmm(alpha,A,x,beta,y,desc_a,info,trans='T')`

$\mathbf{y} \leftarrow \alpha DT^T\mathbf{x} + \beta\mathbf{y}$: `call psb_spsm(alpha,T,x,beta,y,desc_a,info,trans='T'[,unitd])`

Note: T is a triangular AND block diagonal matrix (i.e.: Block-Jacobi or Hybrid GS type preconditioners)