

Error

Forward Error	Backward Error
$ r-x_a $	$ f(r)-f(x_a) $

Factorization

LU	PA=LU
$Ax=b$	$Ax=b$
$A=LU$	$PAx=Pb$ and $LUx=Pb$
$Lc=b$	$Lc=Pb$
$Ux=c$	$Ux=c$

Elimination Method/Operation Count

Naive Guassian	$(2/3)*n^3$
Back Substitution	$k*n^2$
LU Factorization	$(2/3)*n^3$
Twice Back Substitution	$2k*n^2$

Error Magnification Factor



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