

Condition Number Roundoff Errors

- issue with the matrix, not with Maple
- asymptotically worst case loss of accuracy: 10^{19} : 19 digits= k , order
- use fractions when possible—if not, using r digits gets at least $r - k$ accuracy [ex: $21-19=2$]
- hard to numerically distinguish between a non-invertible matrix and one with a large condition number



http://c.asstatic.com/images/1639965_634936497651212500-1.jpg