

# Re: Maple's linear algebra routine and higher precision arithmetic

---

*Source:* <http://sci.tech-archive.net/Archive/sci.math.symbolic/2006-05/msg00149.html>

---

- *From:* [israel@xxxxxxxxxxx](mailto:israel@xxxxxxxxxxx) (Robert Israel)
  - *Date:* 29 May 2006 17:44:19 GMT
- 

In article <pan.2006.05.29.15.19.31.155994@xxxxxxxxxxx>, Ronald Haynes <[ronald.haynes@xxxxxxxxxxx](mailto:ronald.haynes@xxxxxxxxxxx)> wrote:

Hi, does Maple's linear algebra routine MatrixInverse play nicely with the Digits command? If I set Digits:=50 and compute a Matrix Inverse will the arithmetic all be done to 50 digits?

Yes, it will (if the original matrix involves floats). Note that "to 50 digits" doesn't mean that the results are accurate to 50 digits, but rather that the calculations are done with Digits set to 50.

Robert Israel [israel@xxxxxxxxxxx](mailto:israel@xxxxxxxxxxx)  
Department of Mathematics <http://www.math.ubc.ca/~israel>  
University of British Columbia Vancouver, BC, Canada