Subject: Re: Infinity matrix determinant
Posted by Sergey Anfinogentov on Mon, 17 Nov 2014 11:27:58 GMT
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You can still calculate inverse matrix.

because for inverse matrix you have

(kA)^-1 = 1/k*(A^-1)
and
A^-1 = k*(kA^-1)

Try the following IDL code:

factor = 1d12
matrrix = matrix/factor
inverse = invert(matrix) ; invert is a built in function of IDL
inverse = inverse/factor

This should work fine.
For the determinant of such a matrix double precision is not enough. You should probably just memorize that you have a multiplier 1e24000.

> Dear Sergey,
>
> Thank you for answer.
> The point is here that the factor^2000d return Infinity
>
> IDL> print,(1.0d12)^2000d
> Infinity