Subject: vectorized RK4 Posted by news.qwest.net on Thu, 09 Nov 2006 17:17:20 GMT View Forum Message <> Reply to Message

I'm looking at a problem where we have to calculate a Runge Kutta solution for a number of particles.

From some reading I did, I thought I could vectorize the RK4 call over the number of particles.

From the help example, we have the following call, > RK4(Y, allders, X, H, 'differential',/double)

For a single particle x = 0.0y = [4.0, 6.0]allders is a 2 element array H = 0.5"differential" is a defined function returns a 2 element array.

So, how does one go about vectorizing this for 1000 particles? Is that possible? I cannot just pass in vectors for x and y (and of course have the appropriate differential function)

Cheers, bob