
Subject: Getting rid of large nested FOR loops
Posted by [paulo](#) on Tue, 17 Aug 2004 19:37:48 GMT
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Hi,

My code has three nested FOR loops (ops!)... well, the original code in FORTRAN has three nested FOR loops, but I'm re-writing (and improving) it to IDL. I've read the J.D. Smith's tutorial about vectorizing but the problem is that my inner loop is variable, it runs until the data converges... and I'm dealing with lots of data, something like this:
for i=0,120...
 for j=0,100...
 for k=0,(variable: 2 to 1000) where I use BESELJ function (it seems to be the weak point) and maybe the memory usage will slow me down if I vectorize it... I know it sounds a little vague, but the code is rather simple, but I need it to be faster (it takes about 30 sec on a 1.2GHZ P4 / 1GB RAM). Is it better to vectorize the whole thing (hard stuff!), the inner loop or the outer loops? Or maybe another solution?

Thanks,
PJ Simiões
