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Subject: for loops and calls to functions/objects

Posted by [Charles at AER](#) on Tue, 15 Apr 2008 15:11:42 GMT

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Dear Newsgroup,

A program I am optimizing loads a series of images from netcdf files, the user may select an arbitrary number of images to display. Within a for loop, the program calls a netcdf reader that initializes a netcdf object, gets lat and lon info and then grabs an image. If the user wants to look at 10 images, the read net cdf is called 10 times, and the time to initialize the netcdf object takes 0.1 seconds, and to get the image takes 0.2 seconds. Here's the rub, if the user wants to investigate 70 images, the netcdf initialization is 10 times longer - about 1 second, similarly, the get method loads the image in 2 seconds. So to read 10 images takes 3 seconds, and to read 70 images takes 210 seconds. The exponential increase is untenable. Does any one understand what is happening, and are there work-arounds? Thanks.

Sincerely,

Charles

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