Subject: Re: Faster approach for total(data,dimension) possible?
Posted by wlandsman on Thu, 25 Jun 2009 12:10:51 GMT

>
>> chris
>
> Dear Chris
> it's me, Chris :) Back to topic: That may be, but nevertheless there
> are routines missing, which can compare a 3D matrix with a 1D vector
> simply and fast. Any other ideas?
>

Check your assumptions.   The ideas suggested are all completely
vectorized IDL code and have the same speed to an order of
magnitude.   They have some unnecessary computations because every
pixel in each band is checked even if one already knows the column
contains non-zero elements.   This should slow the routines down by
about a factor of two from an ideal method.

But if the existing code takes less than a second on all the machines
tested, and takes several minutes on your user's machine, then I would
take a very close look as to whether it is really this section of code
that is causing the problem.   --Wayne