Subject: Re: Inconsistent Mean Calculation
Posted by Mark Hadfield on Tue, 21 May 2002 01:00:59 GMT
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"Phil" <plmcelwee@yahoo.com> wrote in message news:a3589d11.0205201557.1a92499f@posting.google.com...

- > I have 5000 frames of video in a NetCDF file, and I want to
- > calculate the average of frame 2557. I have read the video file
- > into both IDL v5.1 and Matlab v6.1. Additionally I have extracted
- > frame 2557 and copied it into Excel. Here are the mean calculations
- > I get for this frame:

>

Matlab: 4092.6805Excel: 4092.6805IDL: 4093.6165

>

- > Can anyone offer any suggestions as to why the IDL calculation is
- > different?

Matlab uses double-precision real numbers whereas IDL by default uses single-precision. Try repeating your IDL calculations using double precision (for example, if you are using IDL's TOTAL function, set its DOUBLE keyword).

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