Subject: Re: Need help with Wavelet Workbench
Posted by jab7981 on Wed, 07 Apr 1999 07:00:00 GMT
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On 7 Apr 1999 14:11:34 GMT, steinhh@ulrik.uio.no (Stein Vidar Hagfors Haugan) wrote:

>
> In article <370b52f7.335334@news.frontiernet.net>
> jkbishop@frontiernet.net (Jonathan Bishop) writes:
>

>> When I put the 32768 point set in,
>> the data set gets truncated to 16384 points because
>> fix(alog(n_elements(x_work))/alog(2))) evaluates to 14 instead of
>> 15. alog(n_elements(x_work))/alog(2)) is given as 15.0000. Can
>> someone explain this so even a mechanical engineer can
>> understand?
>
> IDL> print,alog(32768)/alog(2),form='(g15.10)'
> 14.99999905
>
> It would be wiser in this case to use round() instead of
> fix() -- or use the logb() function I posted recently!

I thought of that, but naive use of round will make it think a dataset

of 32767 points is 2^15 points, then an array subscript will be out of range. A kludge like round(100.*alog(...)/alog(2))/100 would at least work here. I'll pass on using logb, though something along those lines might be needed if WWB is overhauled to use long data sets; I'll just comment out the check and be careful, now that I know the cause.

The result is that WWB only works for datasets < 32768 in length rather than <= 32768 in its original form.

>
> Regards,
>
> Stein Vidar

--
Jonathan Bishop