Subject: Re: Need help with Wavelet Workbench
Posted by Amara.Graps on Thu, 08 Apr 1999 07:00:00 GMT
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In article <370b984c.55748962@news.rit.edu>, jab7981@nospam.rit.edu wrote:

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

Dear Jonathan Bishop,

I can answer this, and I think t's time to say something about Wavelet Workbench (WWB).

I'm the author of WWB. About 2/3 of WWB is code that I translated with (D. Donoho's) permission from the Matlab WaveLab algorithms and software, and the rest of WWB is my algorithms and software.

I devloped WWB in IDL v4.0.1 on my old Macintosh.

Yes, WWB is old, and yes I have access to IDL version 5 on a Sun at my Institute, but my time is severely limited for me to spend much time away from my PhD while I'm at my Institute, in order to develop that software for the public.

Yes, I understand that that public version of WWB is crippled in many ways. I was hoping that many folks would see the code of the open routines and upgrade and develop it themselves. I know of some people that have made the necessary changes to have WWB run for arrays > 32767 and on newer version of IDL. (It's not a trivial change, but it is doable.)

In the last 1 1/2 - 2 years that I released that Wavelet Workbench publically, I've added a fair bit of new code to my own copy of that software, but mostly to support my own research work on Galileo data.

The extra bit of work for me to update the WWB manuals and to make more examples has been prohibitive enough to prevent me from making a new release of Wavelet Workbench. And I've had substantive changes in my real world that have stopped me from finding time to do such things. (Try moving to a foreign country, where everything is well.. "foreign" and becoming a graduate student.. that will put a major crimp on one's life) My free time every day is on the order of minutes ...

Yes, I have made the changes to WWB to work on >32 767 size arrays.

Yes, I've doubled the number of wavelet bases available.

Yes, I've added a continuous wavelet transform. (I'm adding wavelet-ridge-finding for intantaneous frequencies now.)

Yes, I've fixed quite a few little bugs here and there.

Yes, I have a number of very nice new examples and excercises, from my own work, as well as the result of other people's use of WWB, but they are not written up in the manual yet.

No, I have not worked on any "speed" issues, to speed up WWB.

Since I'm in the middle of a large number of big changes with the software, I don't wish to make a public release now.

Would you be interested in a version from last summer that solves that "32,767" problem? That older version of WWB was "stable" (for me, that is) for some time before my current frenzy of modifications of the code. That's the best I can offer right now.

I'll put it at my personal server this evening:

ftp://ftp.amara.com/wwb_winter.tar.gz

And I will leave it up until April 12. Anyone else that wants a little bit newer version of the WWB code can grab it too. (Sorry I can't leave it up longer, but every Internet usage costs me, and I'm living on a PhD stipend you see...)

Sincerely,
Amara

P.S. I'll be on travel for a large part of April. Sorry I can't do more!

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"Never fight an inanimate object." - P. J. O'Rourke