Subject: Re: bug in IDL's hanning() window-generating function
Posted by Clay Kirkendall on Thu, 02 Aug 2001 17:53:01 GMT

FYI: the hanning() routine that I have from matlab (ver 1.4, 1994) is in worse shape than the one provided with IDL. It is symmetric (not fft-symmetric) and it does not even taper to zero.

Clay

Paul van Delst wrote:

> bennetsc@NOSPAMucs.orst.edu wrote:
>>
>> In article <MPG.15d1a1e0a012bdcd989e44@news.frii.com>,
>> David Fanning <david@dfanning.com> wrote:
>>> Scott Bennett writes after a long analysis of the Hanning function:
>>>
>>>>   In any case, I think the point Harris made is that a discrete
>>>> sampling of a window function should not taper to the same value at
>>>> the end that it has at the beginning because to do so would include
>>>> the first sample of the *next* period (windowed segment.) So IDL's
>>>> hanning() gets it wrong for both even- and odd-length windows. :-(
>>>
>>> Uh, huh. And how did RSI respond when you contacted them
>>> about it?
>>>
>>   I didn't contact them. I'm disgusted with them after seeing how
>> they cheated my faculty advisor and, when I asked them to rectify
>> their errors, they refused to do so. I recommended to my advisor that
>> he turn the whole matter over to the university's legal counsel. He
>> told me that he was not going to renew the service contract any more,
>> so I doubt he will bother with having the legal counsel deal with it,
>> but either way it will be his decision and it's now out of my hands.
>> Given their denial of service while we had a service contract, I doubt
>> they would do any better now that we no longer have a service contract.
>
> Oi vey. another future matlab user.... ? :o)
>
> --
> Paul van Delst   A little learning is a dangerous thing;
> CIMSS @ NOAA/NCEP   Drink deep, or taste not the Pierian spring;
> Ph: (301)763-8000 x7274 There shallow draughts intoxicate the brain,
> Fax:(301)763-8545   And drinking largely sobers us again.
>   Alexander Pope.