Subject: Re: I need a bit of help....Convol and functions Posted by news.qwest.net on Tue, 03 Oct 2006 23:04:28 GMT View Forum Message <> Reply to Message

<D.Kochman@gmail.com> wrote in message news:1159908159.612660.56200@i3g2000cwc.googlegroups.com...

- > consum = convol([blank,sumex],sconfun,total(sconfun),CENTER=0)
- > So my big question is what is going on in convol? If I'm guessing
- > correctly it seems like this is creating an array [blank,sumex] in
- > essence to force an array upon sumex but its a function.

[blank,sumex] is a one dimensional array (assuming X is) where the actual "time series" (sumex) is being zero padded for 1024 points.

sconfun is the kernel

total(sconfun) is a scaling factor, ie the entire result gets divided by this number

One big thing you should know is that convol() can do either a convolution, or a correlation.

If the keyword "center" is set to one it does the correlation, and if it is zero

then you get a convolution (or vice versa) and there may be the need to reverse

the kernel beforehand.

Cheers, bob