
Subject: FFTs in IDL
Posted by [tom](#) on Thu, 15 Feb 1996 08:00:00 GMT
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Subject: IDL FFT Efficiency and Alternatives
Summary:

Does anyone know which algorithm the FFT.PRO routine uses? The manual implies that it is the Cooley-Tukey with "convert-to-complex" algorithm. This should be very much slower than the algorithms tailored for real data (especially for large 2-D images like the ones I'm trying to filter).

Numerical Recipes lists some but they are the old "N = factor of 2 or die" variety and zero padding a 1300x1024 array to 2048x1200 just seems like a really stupid thing to do. The Winograd algorithms would be ideal here.

A related question: if I end up having to not be lazy and type in a book algorithm, would it be faster to implement as a CALL_EXTERNAL or a native IDL routine? I have no experience with external calls; someone told me they can be slow due to translation (?).

Replies by email please.

Tom Berger
Center for Space Science and Astrophysics
Stanford University

tom@quake.stanford.edu
