Subject: Re: dfourt
Posted by Matthew Argall on Fri, 24 Apr 2015 18:44:28 GMT
View Forum Message <> Reply to Message

Looking at the code
http://www.arm.ac.uk/~csj/idl/CLEAN/dfourt.pro

It seems pretty easy to do. They appear to be building the Fourier transform as described in any undergraduate mathematical methods text (e.g. Boas). Essentially, the inverse transform would be

```
ifft = complex(0, 0)
for i = 0, npts - 1
  ifft = ifft + complex( A[i] * cos(f[i]*t), B[i] * sin(f[i]*t)
endfor
```

Where A and B are the real and complex fourier coefficients, t is time, and f is frequency.