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Subject: Re: FFT in 1 dimension

Posted by [hradilv.nospam](#) on Fri, 07 Dec 2001 19:05:36 GMT

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Here's what I came up with. Any comments?

```
function ft1d, data, dim, inverse=inverse
```

```
ds = size(data)
ndim = ds[0]
nlines = n_elements(data)/ds[dim]
```

```
dims = lindgen(ndim)+1
dims[dim-1] = -1
porder = sort(dims)
```

```
fdata = transpose(data,porder)
fdata = reform(fdata,ds[dim],nlines)
```

```
for i=0, nlines-1 do fdata[*,i] = fft(fdata[*,i],inverse=inverse)
```

```
porder = (ds[1:ndim])[sort(dims)]
fdata = reform(fdata,porder)
fdata = transpose(fdata,sort(porder))
```

```
return, fdata
end
```

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