
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
```
