
Subject: obfuscated code: was Re: Who's up for breaking IDL?
Posted by [R.G. Stockwell](#) on Mon, 04 Aug 2003 15:08:51 GMT
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"R.G. Stockwell" <noemail@please.com> wrote in message
news:ARtXa.15\$%h.12100@news.uswest.net...

>
...> That would work nicely with my policy of making all variable names from
> different
> lengths of the underline character, eg
> IDL> ____ = 8*4
> IDL> _____ = ____^2
>
> IDL> help, _____, ____
> _____ INT = 1024
> ____ INT = 32
>

Weeeheee fun. Check out this S-Transform code (save as s_trans_lines.pro):
IDL> .run s_transf_lines

Cheers,
bob

; The S transform function
; written by bob stockwell

```
FUNCTION _____, __, ____  
____ = 2  
if ____ ne 0.0 then _____ = _/(____*!dPI*____)  
_____ = dblarr(____)  
_____ = dindgen(____)  
_____ = (_____ - _/____)^____/(____*____[0]^____)  
_____ = where(_____ lt 25)  
_____(_____) = exp(-_____(_____  
_____ = shift(_____, -_/____)  
return, dcomplex(_____, 0)  
end
```

```
.; ~~~~~  
;  
; the S Transform function  
FUNCTION s_trans_lines, __, ____  
  
sz = size(____)
```

```

__ = n_elements(__)
__ = __/2
__ = dcomplexarr(__)
__ = dcomplexarr(__)
__ = fft(__,-1)

__ = 0
__ = __
__ = 1
__ = floor((__ - __)/__)+1

```

```

if n_elements(__) eq 1 then begin
  __ = dblarr(__)+__
endif

```

```

if n_elements(__) ne __ then begin
  __ = dblarr(__)+__(0)
endif

```

```

__ = where(__ eq 0, __)
if __ gt 0 then begin
  Message, strcompress('Invalid __ Array. __ has a value of zero!')
endif

```

```

__ = dcomplexarr(__, __)
__ = shift(__, -__)
if __ eq 0 then begin
  __ = dblarr(__)
  __ (0) = 1
  __ (*,0) = fft(__ * __, 1)
endif else begin
  __ = double(__)
  __ = __ (0) * __ / __
  __ = __ (__, __)
  __ = __ * __
  __ (*,0) = fft(__, 1)
endelse
for __ = 1d, __-1 do begin
  __ = float(__) + __ * __
  __ = __ (__) * __ / __
  __ = __ (__, __)
  __ = shift(__, -__)
  __ = __ * __

```

```

_____ (*, _____) = fft(_____,1)
endfor

return, _____

end ; end of function

.*****
;
; MAIN LEVEL EXAMPLE CODE BELOW
.*****
;

randm =randomn(seed,74)
ts = complex(randm,randomn(seed,74)+3*sin(findgen(74)))+1
ts = filtarr(74)

ti = 2*!dpi*12./74*findgen(74)+0.7
ts = 10*cos(ti)+randomn(Seed,74)
ts(22) = 12

factor = (findgen(38)+1)/38*4
a = s_trans_lines(ts,factor)

!P.multi=[0,1,2]
plot,ts,xtitle='Time'
oplot,imaginary(ts),linestyle=1
contour,abs(a),/fill,nlevels=14,xtitle='Time',ytitle='Freque ncy (pos)'

end

```
