
Subject: Array Integration

Posted by [Maryam](#) on Fri, 13 Jul 2012 18:51:01 GMT

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Hello.

I am trying to perform a numerical integration in IDL where one of my variables is an array. Here is what I wrote:

```
pro ind_intg
```

```
    delta=1.0
    W=[0.0212330,0.0424661,0.127398,0.212330,0.297263,0.424661,0
.530826,0.636991,0.743157,0.849322,0.955487,1.06165,1.16782, 1.27398]
    num_elements=14
    A = fltarr(num_elements)
    for i = 0, num_elements-1 do begin
        A(i) = qpint1d('((2.*!pi*deltan^4) * x * (1+deltan^2*x^2)^(-3) * exp(-wn^2*x^2) )', $
            /expression, 0., +inf)
    endfor
    print, A

stop
end
```

But I get the following error message:

```
% QPINT1D: USAGE:
% QPINT1D: G = QPINT1D(FUNCNAME, A, B, $
% QPINT1D:      [EPSABS=, EPSREL=, ERROR=, STATUS=])
% QPINT1D:      (or)
% QPINT1D: G = QPINT1D(EXPR, A, B, /EXPRESSION, $
% QPINT1D:      [EPSABS=, EPSREL=, ERROR=, STATUS=])
      NaN      NaN      NaN      NaN      NaN      NaN      NaN      NaN      NaN
      NaN      NaN      NaN      NaN      NaN
```

Can anyone please let me know where I could be making a mistake? Thanks...
