Subject: Re: significant figures function?
Posted by Martin Downing on Tue, 27 Feb 2001 01:36:29 GMT
View Forum Message <> Reply to Message

```
"Ben Tupper" <pemaguidriver@tidewater.net> wrote in message
news:3A9AEA4B.E6169330@tidewater.net...
> You try the following.
>
> :----start
> ;+
> ; NAME:
> : ROUNDPV
> :
hm, I got funny results with this (as i did with my other attempt!)
IDL> print, roundPV( [ 0.0002323,34.3434,1234000], 2)
  0.000000
               0.000000 1.23400e+006
so I had another think:
function fix digits, num, digits
p10 = floor(alog10(abs(num)))
expo = 10.0d^{(digits -1 - p10)}
fix_val = long(num*expo)/expo
return, fix_val
end
this seems to be fine for all thise who dont care about casting to double
- some one else can reset the type!
IDL> print, fix_digits( [ 0.0002323,34.3434,1234000], 2)
 0.00023000000
                     34.000000
                                    1200000.0
Martin
```