Subject: IDL Way to have a single row/collum act on all rows/collums in an array
Posted by JTMHD on Fri, 24 Oct 2014 14:32:41 GMT
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Hi Guys,

What I am trying to do is analogous to the following

```
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
timedistancearray =FINDGEN(3,3)

timezero = timedistancearray(*,0)

timedistance_minustimezero = FLTARR(3,3)

FOR t=0,2 DO  timedistance_minustimezero(*,t)=timedistancearray(*,t)-timez ero
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
```

The thing is in this case the array is HUGE so I don't think the FOR loop would be optimum.

The other thing I thought about was taking the timezero array and changing it into a 2D array of the correct dimensions, e.g.

```
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;; ;;;

timedistancearray =FINDGEN(3,3)

timezero = timedistancearray(*,0)#MAKE_ARRAY(1, 3, /DOUBLE, VALUE = 1D0)

timedistance_minustimezero = timedistancearray-timezero

;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;; ;
```

But again, this perhaps isn't ideal as it will involve creating an equally huge array to do the operation which will have add to the memory overhead.

I keep hearing that if you want to get good at IDL you have to exploit the array operations properly - what other options do I have here?

Thanks in advance

Jonathan