Subject: Array multiplication: implicit loop query
Posted by george on Fri, 10 Aug 2001 10:56:55 GMT
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Hi there

I was just calculating the following equation:

DEN_H = MMR_H * Pres * RMT / (atomic_mass_H * Gas_constant * TN)

These numbers are 3D arrays, 1D arrays and constants, i.e.,

MMR_H = fltarr(30,91,40)
Pres = fltarr(30)
RMT = fltarr(30,91,40)
atomic_mass_H = constant
Gas_constant = constant
TN =fltarr(30,91,40)

The result of this is DEN_H (previously undefined) which ends up being fltarr(30) - i.e., 1 dimensional.
To my mind DEN_H should be 3D (30,91,40) - shouldn't it ? Doesn't IDL understand that I am implicity doing a full 3D calculation here ? It would seem that, to get this to work I need to make Pres=fltarr(30,91,40). However, this seems uneccessary because that means that the 2 new dimensions for pressure are redundant.
Any advice ?? Cheers,
George Millward