Subject: Re: How to extract a scalar from a vector?
Posted by penteado on Tue, 04 Jan 2011 23:43:34 GMT

> I think the problem is that IDL thinks that cal_data[sel_cal_data,2]
> and cal_data[sel_cal_data,3] are vectors of dimension 1, when they
> should be scalars.

I do not know what you mean by "thinks they are" 1-element arrays.
They *are* 1-element arrays. Any time an array indexed by an array (in
this case, the result of where), the result is an array, even if it
only has 1 element.

> See this:
> IDL> help,cal_data[sel_cal_data,
> 3]
> <Expression>   DOUBLE   = Array[1]

You are right that this is the problem, since the product of arrays of
different sizes has the size of the smaller of the two, in this case,
1.

> How on earth can I make cal_data[sel_cal_data,2] and
> cal_data[sel_cal_data,3] into a scalar? I tried this:

Use just one element of sel_cal_data (the one element is a scalar),
instead of the whole sel_cal_data array:

cal_data[sel_cal_data[0],3]