
Subject: Re: Crazy use of MAX function.

Posted by [R.Bauer](#) on Mon, 28 Jun 1999 07:00:00 GMT

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Grady Daub wrote:

> I have data to be plotted. I want to create YRANGE based on max/min of
> the data. The problem is that the maximum is always lower than "9999",
> which is used to indicate "bad" data.
>
> Without having to replace all 9999's with, say, zero , using MAX to find
> the true maximum and then putting the 9999's back where they were...
>
> How do I find a maximum/minumum value less/greater than a certain value?
>
> MAX(data lt 9999) doesn't work. :-(
>
> Ugh, I just thought of a way:
>
> MAX(data(WHERE(data LT 9999)))
>
> Is this the only way, or, does IDL already have something that does this
> task?

How about this:

PRO use_of_valid_example

```
data_x=FINDGEN(100)
data_x[[1,10,20]]=9999
data_y=FINDGEN(100)
data_y[[3,13,21]]=9999
valid_x=WHERE(data_x NE 9999)
valid_y=WHERE(data_y NE 9999)
```

```
valid=MAKE_ARRAY(N_ELEMENTS(data_x),/LONG)
```

```
IF valid_x[0] NE -1 THEN valid[valid_x]=1
```

```
IF valid_y[0] NE -1 THEN valid[valid_y]=valid[valid_y]+1
```

```
valid=TEMPORARY(WHERE(valid EQ 2,count))
```

```
plot,data_x[valid],data_y[valid]
END
```

regards,

R.Bauer
