
Subject: LEGEND and Symcat - part 2

Posted by [Mrunmayee](#) on Tue, 18 May 2010 12:54:18 GMT

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So, I did go through previous posts since I also encountered the problem. Problem is that if you use Symcat to draw plot symbols, there isn't a way to get them into LEGEND - the routine as it came with the library (as of 2008). It will only plot the last symbol you used. So, in the previous thread (http://groups.google.com/group/comp.lang.idl-pvwave/browse_thread/thread/c7c8a10fd1611c73/2930e1bf2b344507) a solution was suggested by David and implemented by Wayne which makes the LEGEND call Symcat if psym > 8. (Also takes care of psym=10 errors.) I downloaded the modified program that Wayne has given link to in the above thread.

What it doesn't do right is plotting legend with e.g. psym=-16. That is the symbols connected by line. Because Symcat accepts only positive psym values. Solution is a no brainer actually, but here it is for anyone to use. Instead of the following line (line 425 in the routine from the link in above thread):

```
else if psym[i] GT 8 then p_sym = symcat(psym[i]) else p_sym= psym[i]
```

I wrote this:

```
else if abs(psym[i]) GT 8 then begin
    abs_psym = abs(psym[i])
    sign = abs_psym/psym[i]
    p_sym = sign*symcat(abs_psym)
endif else p_sym= psym[i]
```

Now this plots Symcat's symbols connected by line if so required.
