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Subject: Sort without loops
Posted by lan Dean on Wed, 17 Aug 2005 09:08:07 GMT
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Hi All,
  I have a large string array (~100000 elements) that need sorting on two
fields within each string.
e.g. array=['F;100', 'ABC;6', 'DE;2', 'DE;10', 'DE;1']
Order required is a) sort items to left of ';' followed by b) sort items
numerically to right of ';'
This would produce:
  ABC;6 DE;1
                   DE;2
                         DE;10 F;100
A simple sort (sort(array)) procudes:
  ABC:6 DE:1
                   DE:10 DE:2 F:100
The only way I've found is to conmvert the RH part to I4.4 format within a
loop and search on the new values:
  for j=0, n elements(array)-1 do begin
    parts=strsplit(array[j], ';', /extract)
     RH=string(fix(parts[1]), format='(I4.4)')
     new[j]=parts[0]+RH
  endfor
  order=sort(new)
i.e
  new array is F;0100 ABC;0006
                                     DE;0002 DE;0010
                                                            DE;0001
which is then sorted correctly.
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Is there a clever way of sorting on two fields like this without using a loop. The above algorithm is faaaar slower than just using sort.

I hope I have made this as clear as mud.#

In expectation, lan