Subject: Re: Array sorting by row
Posted by MarioIncandenza on Fri, 18 Aug 2006 18:12:36 GMT
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Try this one out for size (or rather, for speed):
a = [[4,2,0,5],[9,0,1,5],[0,4,2,1],[1,2,3,4]]; or any 2-d array
sz=size(a,/dimensions); get dimensions
cols=rebin(indgen(sz[0]),sz[0],sz[1]); label points by column
 h2=hist_nd(transpose([[a[*]],[cols[*]]]),[1,1],reverse_indic es=ri2)
; syntax is a wee messy, but this is JD Smith's beautiful HIST_ND()
function:
; http://www.dfanning.com/documents/programs.html#HIST_ND
starti=n_elements(h2)+1; beginning of indices in $RI2
sorted=transpose(reform(a[ri2[starti:*]],sz[0],sz[1]))

This one should be blazing fast right up to memory limits.

Cheers,

Edward H.