Subject: Slicing a volume
Posted by Nuno Oliveira on Tue, 04 Nov 2003 16:52:20 GMT
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Since I began to work with IDL one of the things that makes confuse is when I want to make a two-dimension array from a three-dimension array (and I often do).

For example I can create de three-dimension array vol

vol=INTARR(100,100,100)

But when I try to extract slices along different axes I get "different" variables.

sliceX=vol(50,*,*)

sliceY=vol(*,50,*)

sliceZ=vol(*,*,50)

Then, I see that sliceX is an array [1,100,100], and the same with sliceY but, sliceZ is an array [100,100]. sliceX and sliceY are what I am tempted to call a false 3D array because one of the dimensions can have only one value. My question is why they are not equal: all 2D arrays or all 3D arrays?

I know this not very important, just bores me that I need to make a specific code for the Z direction. I can use the function EXTRACT_SLICE, but it really makes me sad that it doesn't work the easy way. Anyone knows why? Am I making any mistake? Anyone had some time the same problem? Is the EXTRACT_SLICE the only solution?

Cordially,

Nuno.