Subject: Re: signed character
Posted by Mark Rivers on Thu, 25 Apr 2002 13:24:52 GMT
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Carmen <cambicambi@hotmail.com> wrote in message news:8128b197.0204250239.509a20fb@posting.google.com...

> Hello.

>

- > I am trying to access information stored in a matrix, byte per byte.
- > If I were using C, I should read every byte as SIGNED CHARACTERS.
- > But, IDL has not that definition.

>

- > I would appreciate a lot if you can tell me what should I do in order
- > to read the data correctly.

If A is the matrix containing an IDL byte array (which IDL assumes is unsigned) then you could do

- ; First convert A to a signed 16-bit integer array a = fix(a)
- ; Find the indices of the negative elements (MSB of 8-bit value set) negs = where(a and '80'x)
- ; Extended the sign to 16 bits a[negs]=a[negs] or 'ff80'x

The drawbacks of this approach are that your matrix is twice as big (16 bits vs 8 bits), and that you need to create the temporary array "negs". If your matrix is only 2-D and not terribly huge then this should be fine.

Mark Rivers