Subject: Re: Double-Precision Byte Swap
Posted by rkj on Wed, 29 Apr 1998 07:00:00 GMT
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: Assuming that the data are IEEE double-precision (almost certainly), yes, you
: just need to reverse the order of each number's 8 bytes.
: (But note that if it's Digital Unix that you're using then you should NOT
: re-order.)

: I don't use PV-Wave, but here's a little IDL routine for the job:
: ;================================
: ; Reverse the byte order of a whatever
: pro byterev,v
: j=size(v) &nj=n_elements(j) &t=j(nj-2) &n=j(nj-1)
: if (t le 1) or (t ge 7) then return ;undefined, or inappropriate type
: case t of
:   2:byteorder,v,/sswap ;short
:   3:byteorder,v,/lswap ;long
:   4:byteorder,v,/lswap ;float
:   5:begin &for i=0L,n-1L do v(i)=double(rotate(byte(v(i),0,8),2),0) &end ;double
:   6:byteorder,v,/lswap ;complex (it works, too!)
: endcase
: return
: end
: ;================================

: Peter Mason

Works like a charm! This ought to be in the user library.

Thanks.

Kyle