## Subject: Re: converting ieee-float-format to pw-wave-float-format Posted by peter on Wed, 24 Aug 1994 15:38:27 GMT

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SLAMECZKA, MICHAEL	. (SLAMECZKA@EZINFO.VMSMAIL.ETHZ.CH	) wrote:
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- : Hi everybody!!
- : My problem is the following:
- : I have an 4 byte float in the ieee-format and should convert it into the
- : pw\_wave-format.

There's a difference?

- : To do so, I had to shift the byte by 2, that means:
- : byte1 byte2 byte3 byte4 had to be shifted:
- : --> byte3 byte4 byte1 byte2
- : in pw\_wave I do the following
- : readu,1,flo
- : print,flo ---> byte3 byte4 byte1 byte2
- : print,float(flo,0) ---> floaatingpointnumber

Ah, maybe you need to byteswap your data (did you transfer it from one CPU type to another?) Try the BYTEORDER command. From your description, I think you need BYTEORDER, /LSWAP.

- : now my problem realy starts:
- : the result is only one quarter of the originally number, that means, if I had
- : a 10 then i get as result in pw\_wave 2.5!!!

Never seen this!

: thanks a lot

Hope this helps,

Peter

Subject: converting ieee-float-format to pw-wave-float-format Posted by SLAMECZKA on Thu, 25 Aug 1994 11:40:01 GMT

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In <Cv1q43.JJ4@hpl.hp.com> peter@hpl.hp.com writes:

- > SLAMECZKA, MICHAEL (SLAMECZKA@EZINFO. VMSMAIL. ETHZ. CH) wrote:
- > : I have an 4 byte float in the ieee-format and should convert it into the
- > : pw\_wave-format.
- > There's a difference?

Yes there had to be a difference. Every computer has its own format to save floats into a byte array and that programm produces an output in the ieeeformat.

- > : To do so, I had to shift the byte by 2, that means:
- > : byte1 byte2 byte3 byte4 had to be shifted:
- > : --> byte3 byte4 byte1 byte2
- > : in pw\_wave I do the following
- > : readu,1,flo
- > : print,flo ---> byte3 byte4 byte1 byte2
- > : print,float(flo,0) ---> floaatingpointnumber
- > Ah, maybe you need to byteswap your data (did you transfer it from one
- > CPU type to another?) Try the BYTEORDER command. From your
- > description, I think you need BYTEORDER, /LSWAP.

Sorry, BYTEORDER does not produce the right output, I have tried all the 'input keywords'.

- > : now my problem realy starts:
- > : the result is only one guarter of the original number, that means, if I had
- > : a 10 then i get as result in pw wave 2.5!!!
- Never seen this!
- > : thanks a lot
- > Hope this helps,
- > Peter

your solution Peter does not help,

is anybody out there, who has a better solution?

Thanks in advance

Michael