## Subject: Re: routine to translate DEC microvax Floating point... Posted by Craig Markwardt on Thu, 31 May 2001 18:35:33 GMT View Forum Message <> Reply to Message

Richard French </

- > Hi, friends -
- > I have some 20-year old data in binary floating point format (DEC
- > microvax
- > running ULTRIX4.4). Unfortunately, that ancient machine, while still
- > running, can
- > no longer connect to the internet, so my old subterfuge of converting
- > the floating
- > point to ascii on the microvax, piping across the network to my Alpha
- > machine,
- > and then reconverting it to binary no longer works. I do have the binary
- > files on
- > my new machine, but I don't know how the bits are packed for DEC
- > microvax
- > floating point format, and my web prowls have not revealed the answer.
- > I'm hoping that some of you may know how to decode floating point
- (and possibly also double precision) from DEC microvax format to IEEE. I

>

- > think I recall seeing some IDL utilties to do this once, but I have not
- > been able
- > to track them down.

Hi Dick--

Why don't you simply try reading the numbers into IDL. I did a search on Google, and of the source code in the scientific package called Yorick which knows about a lot of formats. Both showed that IEEE float and VAX float are potentially the same format, except for a different "bias." This suggests that reading the numbers into IDL will give the same number, except for a factor of 2^N (which you can determine once).

However, if you have "D" or "H" type doubles then it's harder, but still doable. Leaving that open-ended until you find out...

Craig	
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