Subject: Re: importing Macintosh AIFF
Posted by sterner on Thu, 11 May 1995 07:00:00 GMT
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bso@acm.org (Bosco Y. So) writes:

> I'm trying to import sound samples into the Macintosh version of IDL to
> perform some simple frequency domain filtering.
> . . .

> The problem is that SoundHandle takes forever to perform the conversions. I
> was wondering whether anyone has written code to import Macintosh AIFFs into
> IDL arrays. If so, can I use your code? The work I'm doing is non-commercial
> and is actually the final project for a graduate class in digital image
> processing and multimedia.

I just happened to have a *.aiff file that I could experiment with.
Mine was 16 bit integer data and was the recording of an echo at a
local dam (see ftp://fermi.jhuapl.edu/www/landsat/liberty.html,
click on the Liberty Dam link for more details on the echo).

I had no problem reading the data into IDL, here are the steps I used:

```
openr,1,'dam.aiff'
f=fstat(1)
help,/st,f
```

```
** Structure FSTAT, 10 tags, length=32:
   UNIT           LONG            1
   NAME           STRING    'dam.aiff'
   OPEN           BYTE      1
   ISATTY         BYTE      0
   READ           BYTE      1
   WRITE          BYTE      0
   TRANSFER_COUNT  LONG            0
   CUR_PTR        LONG            0
   SIZE           LONG        791062
   REC_LEN        LONG            0
```

```
d=intarr(791062/2)
readu,1,d
close, 1
plot,d
```

There is some header info at the beginning of the array, I don't
know the format and just ignored it. Good luck.

P.S. I tried to capture this echo last sunday but it was a bit windy

and the echo was not as intense as I've heard it in the past. A
parabolic microphone and camcorder was used. A friend digitized the
sound on a Mac. When I get a good recording I'll put it on the Web.

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