
Subject: Re: importing Macintosh AIFF
Posted by [sterner](#) on Thu, 11 May 1995 07:00:00 GMT
[View Forum Message](#) <> [Reply to Message](#)

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.

Ray Sterner sterner@tesla.jhuapl.edu
The Johns Hopkins University North latitude 39.16 degrees.
Applied Physics Laboratory West longitude 76.90 degrees.
Laurel, MD 20723-6099
WWW Home page: <ftp://fermi.jhuapl.edu/www/s1r/people/res/res.html>
