

I just got the developer's kit for the SoundBlaster so I can fill in some holes in the CMF File Format. - John

# Creative Voice File (VOC) Format:

HEADER (bytes 00-19)

Series of DATA BLOCKS (bytes 1A+) [Must end w/ Terminator Block]

## HEADER:

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byte #	Description
00-12	Creative Voice File
13-15	1A 1A 00 (eof to abort printing of file)
16-17	Version number (minor,major) (VOC-HDR puts 0A 01)
18-19	2's Comp of Ver. # + 1234h (VOC-HDR puts 29 11)

## DATA BLOCK:

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Data Block: TYPE(1-byte), SIZE(3-bytes), INFO(0+ bytes)

NOTE: Terminator Block is an exception -- it has only the TYPE byte.

TYPE	Description	Size (3-byte int)	Info
00	Terminator	(NONE)	(NONE)
01	Sound data	2+length of data	*
02	Sound continue	length of data	Voice Data
03	Silence	3	**
04	Marker	2	Marker# (2 bytes)
05	ASCII	length of string	null terminated string
06	Repeat	2	Count# (2 bytes)
07	End repeat	0	(NONE)

\*Sound Info Format:

\*\*Silence Info Format:

00	Sample Rate	00-01	Length of silence - 1
01	Compression Type	02	Sample Rate
02+	Voice Data		

Marker# -- Driver keeps the most recent marker in a status byte

Count# -- Number of repetitions + 1  
 Count# may be 1 to FFFE for 0 - FFFD repetitions  
 or FFFF for endless repetitions

Sample Rate -- SR byte = 256-(1000000/sample\_rate)

Length of silence -- in units of sampling cycle

Compression Type -- of voice data

8-bits	= 0
4-bits	= 1
2.6-bits	= 2
2-bits	= 3

Multi DAC = 3+(# of channels) [interesting--  
 this isn't in the developer's manual]