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 BWAV bext and INFO chunks ID3 tags AES-57 PB Core Checksums 	







Standard : BWAV	
 Mandatory WAV Chunks "FMT " - Describes the contents of the WAV file Format Number of Channels Sample Rate Bit Depth Streaming Info "DATA" - Audio data WAV PCM - no compressions WAV PCM EX - Extensible.	FMT
Handles higher resolution audio files, multi-channel formats and 64 bit audio Many others	DATA









Standard : BWAV
• BEXT chunk: Description : Ross Lee Finney; String Quartet No. 6 in E: 2. Allegro Scherzando Originator : George Blood Audio & Video Origination ref : New World Records CRI DRAM Origination date : 2009-04-16 Origination time : 08-16-04 Time ref : 0 BWF version : 1 UMID : Coding history : A=ANALOG,M=stereo,T=Studer_A-80RC; 21569; Scotch_111A-24R A=PCM,F=96000,W=24,M=stereo,T=PrismSound; ADA-8XR; A/D A=PCM,F=96000,W=24,M=stereo,T=SoX14.1; DAE A=PCM,F=96000,W=24,M=stereo,T=libsndfile-1.0.18pre24j



































Checksum Formula
/* Process each 16-word block. */
For i = 0 to N/16-1 do
/* Copy block i into X. */
For j = 0 to 15 do
Set X[j] to M[i*16+j].
end /* of loop on j */
/* Save A as AA, B as BB, C as CC, and D as DD. */
AA = A BB = B
RFC 1321 MD5 Message-Digest Algorithm April 1992
CC = C
DD = D
/* Round 1. */
/* Let [abcd k s i] denote the operation
a = b + ((a + F(b,c,d) + X[k] + T[i]) <<< s). */
/* Do the following 16 operations. */ [ABCD 0 7 1] [DABC 1 12 2] [CDAB 2 17 3] [BCDA 3 22 4] [ABCD 4 7 5] [DABC 5 12 6] [CDAB 6 17 7] [BCDA 7 22 8] [ABCD 8 7 9] [DABC 9 12 10] [CDAB 10 17 11] [BCDA 11 22 12] [ABCD 12 7 13] [DABC 13 12 14] [CDAB 14 17 15] [BCDA 15 22 16] /* Round 2. */ /* Let [abcd k s i] denote the operation a = b + ((a + G(b,c,d) + X
[k] + T[i]) <<< s). */ /* Do the following 16 operations. */ [ABCD 1 5
17] [DABC 6 9 18] [CDAB 11 14 19] [BCDA 0 20 20] [ABCD 5 5 21] [DABC
10 9 22] [CDAB 15 14 23] [BCDA 4 20 24] [ABCD 9 5 25] [DABC 14 9
14 31] (BCDA 12 20 32] /* Round 3. */ /* Let [abcd k s t] denote the
operation $a = b + ((a + H(b,c,d) + X[k] + T[i]) <<< s). */ /* Do the following 16$

$$x^{6}+y^{3}+z+1$$

$$X = 09, Y = 06, Z = 11$$

$$9^{6} + 6^{3} + 11 + 1 =$$

$$531,441 + 216 + 11 + 1 = 531,669$$

$$X = 08, Y = 06, Z = 11$$

$$8^{6} + 6^{3} + 11 + 1 =$$

$$262,144 + 216 + 11 + 1 = 262,372$$

```
Change +1 in one value

x^{6}+y^{3}+z+1

X = 09, Y = 06, Z = 11

9^{6} + 6^{3} + 11 + 1 =

531,441 + 216 + 11 + 1 = 531,669

X = 08, Y = 06, Z = 11

8^{6} + 6^{3} + 11 + 1 =

262,144 + 216 + 11 + 1 = 262,372
```



















