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| Endian | Positions | Sample Value | Description |
| Big | 1 – 4 | “RIFF” | Marks the file as a riff file. Characters are each 1 byte long. |
| Little | 5 – 8 | File size (integer) | Size of the overall file – 8 bytes, in bytes (32-bit integer). Typically, you’d fill this in after creation. |
| B | 9 -12 | “WAVE” | File Type Header. For our purposes, it always equals “WAVE”. |
| B | 13-16 | “fmt “ | Format chunk marker. Includes trailing null |
| L | 17-20 | 8/16/24 | Length of format data as listed above (sample size in bit) |
| L | 21-22 | 1 | Type of format (1 is PCM) – 2 byte integer |
| L | 23-24 | 1/2 | Number of Channels – 2 byte integer (mono/stereo/..) |
| L | 25-28 | 22050/44100 | Sample Rate – 32 byte integer. Common values are 44100 (CD), 48000 (DAT). Sample Rate = Number of Samples per second, or Hertz. |
| L | 29-32 | 176400 | (Sample Rate \* BitsPerSample \* Channels) / 8. |
| L | 33-34 | 4 | (BitsPerSample \* Channels) / 8.1 – 8 bit mono2 – 8 bit stereo/16 bit mono4 – 16 bit stereo |
| L | 35-36 | 16 | Bits per sample |
| B | 37-40 | “data” | “data” chunk header. Marks the beginning of the data section. |
| L | 41-44 | File size (data) | Size of the data section. |
| L | Sample values are given above for a 16-bit stereo source. | | |