# File Structure: FSCV

|  |  |  |
| --- | --- | --- |
| **Address** | **DataType** | **Value** |
| 0 | Int32 | 9997 |
| 4 | Int32 | 2 |
| 8 | Int32 | 2124 |
| 12 | Double64 | Triangle waveform (-0.4) #0 |
| Δ2,124 x8 bytes (16,988)┊ | ┊ | ┊ |
| 16,996 | Double64 | Triangle waveform (-0.4) #2123 |
| 17,008 | Double64 | 0.000 (second channel?) |
| Δ2,124 x8 bytes (16,988)┊ | ┊ | ┊ 0.000 |
| 33,992 | Double64 | 0 |
| Reference 33,996 | Int32 | 2 |
| 34,000 | Int32 | 2124 |
| 34,004 | Int32 | 2124 |
| 34,008 | Int32 | 2 |
| 34,012 | Single32 | 8.906448 ???? |
| 34,016 | Int32 | 0 |
| 34,020 | Int32 | NAN ???? |
| 34,024 | Int32 | 0 |
| 34,028 | Int32 | 2 |
| +36 34,032 | Double64 | 8.5 Triangle Waveform Duration (ms) |
| 34,040 | Double64 | 8.5 Triangle Waveform Duration (ms) |
| 34,048 | Int32 | 2 |
| 34,052 | Int32 | 400 Scan Rate (V/s) |
| 34,056 | Int32 | 0 |
| 34,060 | Int32 | 0 |
| 34,064 | Int32 | 0 |
| 34,068 | Int32 | 2 |
| 34,072 | Double64 | 5 Multiplier |
| 34,080 | Double64 | 5 Multiplier |
| 34,088 | Int32 | 2 |
| 34,092 | Int32 | 0 |
| 34,096 | Int32 | 0 |
| 34,100 | Int32 | 0 |
| 34,104 | Int32 | 0 |
| 34,108 | Double64 | 100 or Single32: 3.390625 |
| *34,116* | *Int32* | *PTHO (55 54 48 30)* |
| 11,460 | Double64 | ?? |
| 34,120 | Int32 | 4 |
| 34,124 | Int32 | 0 |
| 34,128 | Int32 | 60 Stimulation Frequency (Hz) |
| 34,132 | Int32 | 28 Stimulation Pulses |
| 34,136 | Double64 | 2 Stimulation Pulse Width (ms) |
| 34,144 | Double64 | 3 Stimulation Amplitude (V) |
| 11,496 | ? | ?? |
| 34,164 | Int16 | 5000 Stimulation Update Rate (Hz) |
| 34,166 | Int16 | 16368 |
|  |  |  |
| +184 34,180 | Int16 | 200 Pre Event Scans |
| 34,182 | Int16 | 0 |
| +188 34,184 | Int16 | 29800 Post Event Scans |
| 34,186 | Int16 | 0 |
| 34,188 | Int16 | 1 Number Channels |
| 34,190 | Int16 | 0 |
| 34,192 | Int16 | 1 |
| 34,194 | Int16 | 0 |
| 34,196 | Int16 | 1 |
| 34,198 | Int16 | 3 ???? |
| 34,200 | Int16 | 0 |
| 34,202 | Int16 | 2111 ?? |
| 34,204 | Int16 | 44864 ?? |
|  |  |  |
| Δ988,344┊ | ┊ | ┊ |
| 999,996 | Int32 | 0 |
| 1,000,000 | Single32 | Data |
| Δ2,832,000┊ | ┊ | ┊ |
| 3,832,000 | Single32 | EOF |

Total file size: 3,832,000 (size) or 3,866,624 (size on disk)

20 sec recording @ 100 Hz

2 sec control, 10 sec pause, 8 sec ‘useful data’

2000 sweeps (voltamograms)

708 samples per sweep (voltamogram)

Assuming data acquired for total recording duration (20 sec)

Total samples: 2000 \* 708 = 1,416,000

Total bytes (assume Double64): 1,416,000 \* 8 = 11,328,000

Total bytes (assume Single32): 1,416,000 \* 4 = 5,664,000

**Total bytes (assume Int16): 1,416,000 \* 2 = 2,832,000**

Assuming data acquired for control and useful periods only (2 + 8 = 10 sec)

Total samples: (200 + 800) \* 708 = 708,000

Total bytes (assume Double64): 1,416,000 \* 8 = 5,664,000

Total bytes (assume Single32): 1,416,000 \* 4 = 2,832,000

2 sec: 141,600 samples = 283,200 bytes (assume Int16)

10 sec: 708,000 samples = 1,416,000 byes (assume Int16)

8 sec: 566,400 = 1,132,800 (assume Int16)

