AIA File Format

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AIA File Format

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Overview

AIA stands for annotated integer array. An AIA file contains a header and a three-dimensional array of integers followed by arbitrary bytes that make up the "annotation."

Header

Byte	Value
0	'A' = 0x41
1	'I' = 0x49
2	'A' = 0x41
3	0x02 for 16-bit integers, 0x04 for 32-bit integers
4	0
5+	integers in little endian. Each is either 16-bit or 32-bit depending on the value in byte 3

Data

Integer	Value
0	number of rows
1	number of columns
2	number of layers (i.e. number of matrices of the size given by integers 0 and 1)
3 to (3+rows*columns*layers-1)	data integers

Annotation

The annotation consists of a series of pairs (name, value). The name is encoded as a null-terminated sequence of ASCII characters while the value is saved as an 8-byte floating point number.

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