

Data Structures

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| struct | AWEOSAudioRecordNotification | Audio recording notification callback argument structure. More... |
| struct | AWEOSVersionInfo | Versioning structure returned by <code>aweOS_getVersion</code> . More... |
| struct | AWEOSConfigParameters | AWEOSConfigParameters. More... |

Typedefs

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|----------------|-------------------------------------|-------------------------------------------|------------------------------------------------------------------|
| typedef struct | AWEOSAudioRecordNotification | AWEOSAudioRecordNotification_t | Audio recording notification callback argument structure. |
| | typedef void(* | recordNotificationCallbackFunction | (AWEOSAudioRecordNotification_t *) |
| | | | Audio recording notification callback type. |
| typedef struct | AWEOSVersionInfo | AWEOSVersionInfo_t | Versioning structure returned by <code>aweOS_getVersion</code> . |
| | typedef void | AWEOSInstance | The AWE Core OS Instance instance type. More... |
| typedef struct | AWEOSConfigParameters | AWEOSConfigParameters | AWEOSConfigParameters. More... |

Functions

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| INT32 | aweOS_getParamDefaults | (AWEOSConfigParameters *aweParams) | Populates an AWEOSConfigParameters structure with defaults. More... |
| INT32 | aweOS_init | (AWEOSInstance **pAWEOS, const AWEOSConfigParameters *aweParams, const void *pModuleDescriptorTable, UINT32 moduleDescriptorTableSize) | Initialize the AWEOSInstance with the specified configuration parameters. More... |
| INT32 | aweOS_tuningSocketOpen | (AWEOSInstance **pAWEOS, INT32 portNo, UINT32 numInstances) | Initialize and open an integrated TCP/IP tuning interface socket. More... |
| void | aweOS_tuningSocketClose | (AWEOSInstance *pAWEOS) | Close a running integrated TCP tuning socket. More... |
| INT32 | aweOS_tuningLoggingEnable | (AWEOSInstance *pAWEOS, char *path, char *baseName, UINT32 verbosity) | Enable logging of the tuning packets sent and received by the AWEOSInstance. More... |
| INT32 | aweOS_loadAWBFromArray | (AWEOSInstance *pAWEOS, const UINT32 *pArray, UINT32 arraySize, UINT32 *pErrorOffset) | Executes packet commands from an in-memory array. More... |
| INT32 | aweOS_loadAWBFile | (AWEOSInstance *pAWEOS, const char *binaryFile, UINT32 *pErrorOffset) | Executes packet commands from an AWB file on the filesystem. More... |
| INT32 | aweOS_layoutGetChannelCount | (const AWEOSInstance *pAWEOS, UINT32 *inCount, UINT32 *outCount) | Returns the number of input and output channels in the loaded layout. More... |
| INT32 | aweOS_layoutGetBlockSize | (const AWEOSInstance *pAWEOS, UINT32 *blockSize) | Returns the block size of the loaded layout. More... |
| INT32 | aweOS_layoutGetSampleRate | (const AWEOSInstance *pAWEOS, FLOAT32 *sampleRate) | Returns the sample rate of the loaded layout. More... |
| INT32 | aweOS_audioPumpAll | (AWEOSInstance *pAWEOS) | Pump one fundamental block size of audio through the loaded layout and all of its sublayouts. More... |
| INT32 | aweOS_audioImportSamples | (AWEOSInstance *pAWEOS, void *inSamples, INT32 inStride, INT32 channel, SampleType inType) | Import samples from an audio buffer to a specific channel of the AWEOSInstance's input pin. More... |
| INT32 | aweOS_audioExportSamples | (AWEOSInstance *pAWEOS, void *outSamples, INT32 outStride, INT32 channel, SampleType outType) | Export samples to a user buffer from a specific channel of the AWEOSInstance's output pin. More... |
| INT32 | aweOS_layoutsValid | (const AWEOSInstance *pAWEOS) | Determines if a layout is loaded and valid. More... |
| INT32 | aweOS_audiolsStarted | (const AWEOSInstance *pAWEOS) | Check if this instance has received an Audio Start command. More... |
| const char * | aweOS_errorToString | (INT32 errorCode) | Convert an error code (INT32) to its corresponding error string. More... |
| INT32 | aweOS_tuningPacketProcess | (AWEOSInstance *pAWEOS) | Process the packet buffer in the AWEOSInstance. More... |
| INT32 | aweOS_ctrlSetValue | (const AWEOSInstance *pAWEOS, UINT32 handle, void *value, INT32 arrayOffset, UINT32 length) | Set a scalar or array value(s) of a module parameter by handle. More... |

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- INT32 [aweOS_ctrlGetValue](#) (const [AWEOSInstance](#) *pAWEOS, UINT32 handle, void *value, INT32 arrayOffset, UINT32 length)
Get a scalar or array value(s) of a module parameter by handle. [More...](#)
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- INT32 [aweOS_ctrlSetStatus](#) (const [AWEOSInstance](#) *pAWEOS, UINT32 handle, UINT32 status)
Set the status of a module. [More...](#)
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- INT32 [aweOS_ctrlGetStatus](#) (const [AWEOSInstance](#) *pAWEOS, UINT32 handle, UINT32 *status)
Get the status of a module. [More...](#)
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- INT32 [aweOS_ctrlSetValueMask](#) (const [AWEOSInstance](#) *pAWEOS, UINT32 handle, const void *value, INT32 arrayOffset, UINT32 length, UINT32 mask)
Set a scalar or array value(s) of a module variable by handle with mask. [More...](#)
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- INT32 [aweOS_ctrlGetValueMask](#) (const [AWEOSInstance](#) *pAWEOS, UINT32 handle, void *value, INT32 arrayOffset, UINT32 length, UINT32 mask)
Get a scalar or array value(s) of a module variable by handle with mask. [More...](#)
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- INT32 [aweOS_ctrlGetModuleClass](#) (const [AWEOSInstance](#) *pAWEOS, UINT32 handle, UINT32 *pClassID)
Get a module's object class from its handle. [More...](#)
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- INT32 [aweOS_destroy](#) ([AWEOSInstance](#) *pAWEOS)
Destroys the [AWEOSInstance](#) and closes all associated threads. [More...](#)
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- INT32 [aweOS_setProfilingStatus](#) ([AWEOSInstance](#) *pAWEOS, UINT32 enable)
Enable or disable the profiling ability of the AWE Core OS Instance. [More...](#)
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- INT32 [aweOS_getAverageLayoutCycles](#) ([AWEOSInstance](#) *pAWEOS, UINT32 idx, UINT32 *averageCycles)
Get the average cycles of a running layout. [More...](#)
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- void [aweOS_getVersion](#) ([AWEOSVersionInfo_t](#) *versionInfo)
Get the version information of the AWE Core OS library. [More...](#)
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- Enable recording of input and output audio of [AWEOSInstance](#). [More...](#)
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- INT32 [aweOS_audioRecordingRegisterNotificationCallback](#) ([AWEOSInstance](#) *pAWEOS, [recordNotificationCallbackFunction](#) recordNotificationCallback, UINT32 recordNotificationMask)
Register a callback function for audio recording event notifications. [More...](#)
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- INT32 [aweOS_audioRecordingDisable](#) ([AWEOSInstance](#) *pAWEOS)
Disable recording of input and output audio of [AWEOSInstance](#). [More...](#)
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- INT32 [aweOS_wavFileOpen](#) (const char *file, FLOAT32 *sampleRate, UINT32 *numChannels, UINT32 *sampleSize, UINT32 *numSamples, FILE **fp)
Open a .wav file and populate the user arguments with the header information in the file. [More...](#)
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- INT32 [aweOS_wavFileCreate](#) (const char *file, FLOAT32 sampleRate, UINT32 numChannels, UINT32 sampleSize, FILE **fp)
Create a .wav file and populate the header with the passed in arguments. [More...](#)
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- INT32 [aweOS_wavFileWrite](#) (FILE *fp, void *samples, UINT32 numSamples, UINT32 sampleSize)
Write audio data to .wav file created using [aweOS_wavFileCreate](#). [More...](#)
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- INT32 [aweOS_wavFileRead](#) (FILE *fp, void *samples, UINT32 numSamples, UINT32 sampleSize)
Read audio data from .wav file opened using [aweOS_wavFileOpen](#). [More...](#)
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- INT32 [aweOS_wavFileClose](#) (FILE *fp)
Close the .wav file opened using [aweOS_wavFileOpen](#) or [aweOS_wavFileCreate](#). [More...](#)
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