

OctaMED

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REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

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Chapter 1

OctaMED

1.1 Loading, Saving, Printing / Working With Files

HOW TO...

Use the ASL file requester

Replace ASL with ReqTools

Delete one or more files

Open an AmigaDOS shell

OVERVIEW

Loosely speaking, a file is anything that can be stored on disk. In OctaMED, it can be a song, instrument, MIDI message, text file and so on.

Before a file can be loaded, saved or deleted, it must be selected. That is, you must tell OctaMED which file is to be loaded, saved or deleted. In common with most Amiga programs, this is done using the ASL file requester. If you wish, you can replace ASL with the arguably more powerful ReqTools by Nico François.

Delete (remove from disk) one or more files, or open an AmigaDOS shell for full control over your files, through the Project menu.

NOTES

* OctaMED provides a safeguard against accidental file deletion. In saving operations, if you select a file that already exists (i.e. the file is to be saved over), a requester appears confirming that you really want to overwrite the file.

Experienced users can find this irritating; if you fall into this category, switch off Overwrite Requesters in the Miscellaneous Options window. Where?

1.2 Working With Files / How To Use The ASL File Requester

HOW TO USE THE ASL FILE REQUESTER

INTRODUCTION

Before a file can be loaded, saved or deleted, it must be selected. That is, you must tell OctaMED which file is to be loaded, saved or deleted. In common with most Amiga programs, this is done using the ASL file requester.

In order to locate a file, you must specify the disk (or 'volume') on which it is stored, the directory (or 'drawer') in which it resides, and finally its filename. The combination of disk and directory name is called the file's 'path'; that is, where to look for the file.

When the file requester first appears, it loads the contents of a directory and displays it. By default, the directory is that in which the OctaMED program resides. You can change to the correct directory and select a file by typing their names into Drawer and File respectively. Alternatively, click on file or directory names in the list, and use the Volumes and Parent buttons.

The how-to assumes that a file requester is already displayed, as a result of a load, save or deletion operation.

STEPS

- 1) If necessary, change the disk name.
 - > Click Volumes (bottom) THEN
 - > Choose a disk or 'logical assignment' from the list
 - * If you click Volumes by mistake, click it again to return to the directory contents.
 - 2) If necessary, change the directory.
 - > Click on a directory in the list OR
 - > Type a directory name into the Drawer box
 - 3) EITHER Select one file.
 - > Double-click on a file in the list OR
 - > Click on a file in the list, then click OK OR
 - > Type a filename into the File box and press Return
- OR If possible, select many files.
- > Keep the Shift key held down THEN
 - > Click on the desired files in the list THEN
 - > Click OK

NOTES

- * If some of the files or directories in the list are not shown, drag the scroll bar along the right to reveal them.
 - * In saving operations, the file cannot be selected by double-clicking on it (in step 3). This is a safeguard against accidental file removal.
 - * Sometimes the file requester doesn't show files, only directories (especially with the Sample List Editor). In this case you can
More
-

call it a directory requester.

- * The ASL file requester has a Control menu, which can occasionally be useful (try its keyboard shortcuts).

1.3 Working With Files / How To Replace ASL With ReqTools

HOW TO REPLACE ASL WITH REQTOOLS

INTRODUCTION

Although ASL is the Amiga's 'standard' requester system, OctaMED can optionally use Nico François' ReqTools system. An especially useful feature of ReqTools' file requester is its automatic filename sorter.

STEPS

- 1) Ensure that reqtools.library is in the LIBS: directory.
- 2) Open the Miscellaneous Options window.
 - > Settings menu -> Miscellaneous
- 3) Use the ReqTools system.
 - > Switch on Use ReqTools (left-hand side)

NOTES

- * File, system, screen mode and font requesters are all part of the ReqTools system.
- * Some other file requesters use a 'patch' system to automatically replace ASL when activated. One such requester is the Magic File Requester. To use such file requesters, keep Use ReqTools switched off and install the file requester as explained in its documentation.

1.4 Working With Files / How To Delete One Or More Files

HOW TO DELETE ONE OR MORE FILES

INTRODUCTION

If you have no further use for one or more files in a directory, use Delete Files in the Project menu to remove them from disk.

STEPS

- 1) Open the Delete Files file requester.
 - > Project menu -> Delete Files
- 2) Select one or more files in the file requester.

How?

NOTES

- * If the file is an instrument in your sample list, you can delete
How?
the instrument *and* remove its name from the sample list in one go.

1.5 Working With Files / How To Open An AmigaDOS Shell

HOW TO OPEN AN AMIGADOS SHELL

INTRODUCTION

For full control over your files, you can open a shell and manipulate files using AmigaDOS commands.

STEPS

- 1) Open an AmigaDOS shell.
> Project menu -> AmigaDOS Shell

NOTES

- * Another way to run a program is to set up an appropriate keyboard shortcut, input map or player command, using the Launch Program option in the Action area. More

1.6 Loading, Saving, Printing / Songs

HOW TO...

Load a song

Load a Standard MIDI File

Save a song

Set song compression options

Attach a message to a song

Set the save timer

OVERVIEW

Rather than write a song from scratch, you can load a song from disk into OctaMED for playing or editing. And there's no point in creating a masterpiece if it can't be saved to disk!

OctaMED, of course, can load any song composed in OctaMED, but it can also load songs of other formats. A particularly useful format is the Standard MIDI File; almost all MIDI sequencers save their songs in this format. Songs can be saved in Standard MIDI File format type 0, or as executable files to run and listen to.

To save disk space, your song can be compressed in one of several formats. A message, or 'annotation text', can easily be attached to your song before saving. Finally, to prevent grief resulting from lost songs, OctaMED can save your song automatically every few minutes.

1.7 Songs / How To Load A Song

HOW TO LOAD A SONG

INTRODUCTION

Rather than write a song from scratch, you can load a song from disk into OctaMED for playing or editing. OctaMED opens a file requester with which you select the song to load. If there is already a song in memory that has not been saved, OctaMED offers to save it first.

OctaMED, of course, can load any song composed in OctaMED, but it can also load songs of other formats. Refer to the ALSO SEE section below for a list of recognised song formats.

Some songs created in OctaMED are saved without their instruments; only the instrument names are saved. When loading such songs, OctaMED looks up each instrument name in the sample list to determine the disk and directory containing the instrument. OctaMED then loads the instruments from these locations. A requester appears if any of these instruments cannot be found.

By default, the directory initially loaded into the file requester is the directory containing the OctaMED program. If you have a favourite directory for storing songs, type its path into the Songs box in the Default Directories window. Where?

STEPS

1) Open the Open Song/Module file requester.
> Project menu -> Open

2) Select a song to load.

How?

NOTES

- * After loading, the song's one-line message (if set) appears on More
More
the title bar. Optionally, the Song Annotation window opens if
annotation text is set.

- * To start the song playing automatically after loading, switch on More
Project menu -> Play After Loading. This is particularly useful
when you're trying out all the songs on a song compilation disk.

- * After loading, songs can be converted from the old playing modes More
to the new Mix mode. To convert songs created in OctaMED, switch
on Use Mixing (MMD) in Miscellaneous Options. To convert songs Where?
created in Tracker clones, switch on Use Mixing (Tracker). Where?

- * Songs written in OctaMED version 3 or 4, in 5 to 8-channel mode More
with High Quality Mode on, will play too quickly. This is because
in those versions, switching on High Quality Mode slowed the song
tempo, so composers compensated by quickening the speed.

To play such songs at their intended speed, switch on Slow HQ in the Tempo window. Slow HQ can be switched on automatically at startup: Set Default Slow HQ Mode (Miscellaneous Options window) Where?
to On, then save settings.

How?

* Tracker clones handle pitch slides in a slightly different way from OctaMED. To allow for this, loading a song written with a Tracker clone switches on No Slide On 1st Tick (Song Options).

* Instrument names in songs composed in Tracker clones often include their full path. To automatically remove the full path names, switch on Instr menu -> Remove Path.

ALSO SEE

Song File Formats

How To Load A Standard MIDI File

1.8 Songs / How To Load A Standard Midi File

HOW TO LOAD A STANDARD MIDI FILE

INTRODUCTION

OctaMED is not restricted to loading songs created by itself. A particularly useful song format recognised is the Standard MIDI File (SMF). Almost all MIDI sequencers save their songs in this format. OctaMED recognises type 0 and 1 SMFs (and can also save More type 0 SMFs).

Because SMFs are radically different from OctaMED songs, it's possible that the song is not loaded correctly at first. For this reason, OctaMED has a whole window devoted to loading options for SMFs. If at first OctaMED doesn't succeed, try adjusting some options in this window.

STEPS

- 1) Open the Open Song/Module file requester.
 - > Project menu -> Open
 - 2) Select a Standard MIDI File to load.
 - How?
 - 3) If the file is not loaded successfully, open the SMF Load Options window.
 - > MIDI menu -> SMF Load Options
 - 4) If you're getting 'not enough memory' reports, reduce the maximum number of tracks.
 - > Type a new value into Max Tracks (top-left)
 - 5) If timing is inaccurate, increase the 'resolution' (number of Tracker editor lines per quarter note).
 - > Adjust the Resolution slider to perhaps 16 or 32
 - 6) To adjust minor discrepancies in overall timing, change the offset. For example, if the first block starts on line 001 instead of 000, set the offset to -1.
 - > Adjust the Offset Adjust slider
 - 7) If player commands are cancelling each other out due to command page conflicts, ensure that each player command type is placed on a different page so that no commands overlap. (If the page is 0, the command is not loaded.)
 - > Set the eight boxes in the Command Pages area appropriately
-

- 8) If notes of a type 1 SMF are frequently cut off prematurely, prevent the interweaving of notes to use as few tracks as possible.
 - > Switch on Don't Intermix Type 1 Tracks
- 9) Close the window and go back to step 1.
 - > Click Exit

1.9 Songs / How To Save A Song

HOW TO SAVE A SONG

INTRODUCTION

During and after the composition of a song, save the song to disk. Give the song a filename, and set any required save options, in the Save Options window.

There are options to save 'secondary' information not actually required to play the song successfully; to create a Workbench icon for the song; to save information used by the notation editor; and to save instrument names rather than instruments themselves, saving disk space.

Other options set the song's file format, save all songs or the current song of a multi-module, and compress the song (again saving disk space). Before saving, the size of the resulting file - compressed or uncompressed - can be calculated.

STEPS

- 1) EITHER Select a filename in the file requester which appears How? automatically. This occurs if no filename is set.
 - OR If necessary, change the existing filename.
 - > Type a new name into the text box at the top OR
 - > Click on the GetFile gadget (top corner) and select a file How?
 - 2) Choose whether or not to save secondary information (see notes) ←
 - > Switch Save Secondary Data on or off
- 3) Choose whether or not to save an icon with the song (see notes).
 - > Switch Create Icon on or off
- 4) Choose whether or not to save notation information (see notes).
 - > Switch Save Notation Data on or off
- 5) Choose whether or not to save the instruments with the song. If you choose not to, only the instrument names are saved. Upon reloading the song, the sample list is used to load instruments More directly from your instrument disks.
 - > Switch Save Instruments on or off
- 6) If appropriate, choose whether to save the current song or all More songs of a multi-module.

> Set the cycle gadget to Save Multi-Module or Current Song Only

7) If desired, choose a file format. In most cases, the automatically-selected file format is suitable for your song. More

> Click on one of the five file formats in the radio button

8) If desired, set song compression options.

How?

9) Save the song.

> Click Save

NOTES

* To calculate the size of the saved song file, click Calculate Size or Packed (the latter calculates the size when compressed).

* Secondary data is: Instrument names, line highlighting, block names, the song name (or names for a multi-module). Choosing not to save this information makes the song a few bytes shorter.

* The icons used with Create Icon are contained in the PROGDIR:Icons directory, where PROGDIR is the directory containing the OctaMED program. Executable.info is the icon for executable files, Module.info the icon for other files.

Feel free to replace these icons with your own. Module.info should be a 'project' icon, Executable.info a 'tool' icon.

* The notation information saved is: Key and time signatures; requested display width; number of staves; number of measures on-screen at once; Harmonic Minor Scale state; all information in the Assign Tracks window. More

Also, for each staff, all information in the Staff Setup window is saved. More

* OctaMED can warn you if the song probably won't fit on the disk on which it will be saved. (Switch on Warn if Disk Full in the Miscellaneous Options window.) It's impossible to predict this accurately, though, and the file may not fit even if the requester does not appear. Where?

Also, the requester always appears when saving to the RAM: disk (because RAM: is always 100 % full!). Just ignore it.

* As mentioned, when songs saved without instruments are reloaded, instruments are individually loaded using the sample list. Instruments not occurring in the sample list can still be loaded if their full paths are given with their names. Add full paths automatically when loading instruments by selecting Instr menu -> Add Path.

ALSO SEE

Song File Formats

1.10 Songs / How To Set Song Compression Options

HOW TO SET SONG COMPRESSION OPTIONS

INTRODUCTION

Compressing a song before it is saved results in a significantly smaller file size, saving disk space. There is a time and memory overhead involved in saving and reloading the compressed file.

Compression is available in three formats: PowerPacker, SFCD and XPK. PowerPacker uses Nico François' popular library. SFCD - Stephan Fuhrmann Compact Density - is designed specifically for song compression, and uses lh.library.

XPK is not a compressor in itself; it is a means of using many different 'XPK-compatible' compressors. These compressors are in library form, stored in the LIBS:Compressors directory. A few are supplied with OctaMED; all have four-letter names. In my experience, the XPK SQSH library produces the most compact files in reasonable time.

PowerPacker and XPK compression have several associated options, available in two different windows.

STEPS

- 1) In the Save Options window, set the desired compression.
 - > Set the Compression cycle gadget to No Compression, PowerPacker Compr., SFCD Compression or XPK Compression
- 2) If PowerPacker Compr. is selected, set any required options.
 - a) Open the PowerPacker Settings window.
 - > Click Settings (bottom-right)
 - b) Set the 'speedup buffer' size. Bigger buffers consume more memory but speed up compression. Set it to Large unless you experience memory problems.
 - > Set the Speedup Buffer cycle gadget
 - c) Set the 'efficiency'. Better efficiency produces smaller files but takes more time to compress. Still, I use Best on my A500!
 - > Set the Efficiency cycle gadget
- 2) If XPK Compression is selected, set any required options.
 - a) Open the XPK Settings window.
 - > Click Settings (bottom-right)
 - b) Select an XPK-compatible compressor to use. Information on all available compressors is given.
 - > Repeatedly click on the cycle gadget (top-left corner) to cycle through the available compressors
 - c) Set the 'efficiency'. A larger value produces smaller files but takes more time to compress.
 - > Adjust the Efficiency slider
 - d) For compressors that also encrypt the song, set the password.

This password must be provided when the song is reloaded.
> Type a password into the Password box

NOTES

- * XPK compression requires xpkmaster.library and any desired compressor libraries. As mentioned, some compressors are included with OctaMED; you're free to copy your own into the LIBS:Compressors directory, but do work on a backup copy of the program disk! XPK is on Fish disk 754.
- * Any file that OctaMED can load can be compressed, although only songs can be compressed from within the program. As many of the OctaMED support files are easily compressed (e.g. MED_paths), significant disk space savings are possible.
- * Calculate the song size when compressed by clicking Packed in the Save Options window. This actually compresses the song, so it takes a little while.

TIPS

- * The XPK NONE compressor seems useless, but by buffering saving it actually greatly quickens song saving!

ALSO SEE

How To Save A Song

1.11 Songs / How To Attach A Message To A Song

HOW TO ATTACH A MESSAGE TO A SONG

INTRODUCTION

Using the Song Annotation window, you can attach a message to your song. The message can be greetings, the author's name and contact address, comments on the song, a copyright notice, anything!

There are two types of message; both can be attached at once. One type is only one line long, and is displayed on the screen's title bar when the song is reloaded.

Another type can be as long as you like! Create your message in a text editor, save it as a text file, then load the file into OctaMED. The message can be automatically displayed when the song is reloaded, but only if the user has switched on Show After Loading in the Song Annotation window.

STEPS

- 1) Open the Song Annotation window.
 - > Song menu -> Set Annotation
 - 2) If desired, enter a one-line message to be displayed on the screen's title bar.
 - > Type in a message in the text box at the very top
 - 3) If desired, load in a text file as a multi-line message.
 - > Click Load Text THEN
-

- > Select a text file
 - How?
 - NOTES
- * Save Text saves the (long) message as a text file. Discard Text removes the long message.
- * When Show After Loading is on, after loading a song with a long message attached, OctaMED opens the Song Annotation window to display the message. This can be saved with settings, but not
 - How?
 - with songs. So the loader of the song has control over this feature, not the composer of the song.
- * Tab characters (ASCII code 9) shouldn't appear in the text. If they do, they aren't displayed correctly.

1.12 Songs / How To Set The Save Timer

HOW TO SET THE SAVE TIMER

INTRODUCTION

Similar to the 'automatic save' feature of many wordprocessors, the save timer saves the song every few minutes. The number of minutes between saves is variable.

Frequently saving your song reduces the risk of losing your entire song should the unthinkable happen (e.g. freak power surge just as you're putting the finishing touches to it).

Usually, the Save Options window is opened on every automatic save. Optionally, the window can be opened on only the first save in order to set saving options; subsequent saves use those options without opening the window.

STEPS

- 1) Open the Save Timer window.
 - > Project menu -> Save Timer
- 2) Select the number of minutes between saves.
 - > Type a number into Time Between Saves (mins)
- 3) Select whether to open Save Options on every save or just the first save.
 - > Switch on Open Save Window [every save] OR
 - > Switch off Open Save Window [only first save]

NOTES

- * A time of 0 switches the feature off. Alternatively, use the Active gadget.

1.13 Loading, Saving, Printing / Instruments

HOW TO...

- Load an instrument
- Load a raw 16-bit sample
- Save an instrument
- Create a sample list
- Add particular instruments to your sample list
- Remove sample list information
- Save part of a song as a sample

OVERVIEW

When OctaMED starts up, there are no instruments in memory: Instruments must be loaded into memory from disk, or as part of a song. OctaMED can load and save samples in five different file formats, as well as its own special instruments (synthetic sounds, hybrids and ExtSamples).

[More](#)

The sample list is a list of all your instruments (not just samples, confusingly), together with the disks and directories in which they are stored. It provides a convenient way of loading instruments, and helps to organise your instruments (you may acquire thousands over time).

Using the new Mix mode, part of the song can be saved as a sample. For example, you may create a drum beat using many instruments over two tracks, then 'record' this beat as a sample and use the sample in just one track. As a bonus, special effects such as echo can be added to the sample!

1.14 Instruments / How To Load An Instrument

HOW TO LOAD AN INSTRUMENT

INTRODUCTION

There are two ways to load an instrument: through the Load Instrument(s) file requester, or the Instrument Load window. The file requester allows more than one instrument to be selected at once; instruments are loaded into successive positions.

The Instrument Load window displays your 'sample list', a list of all your instruments and their locations. Loading an instrument in this window is a simple matter of clicking on the instrument's name.

OctaMED can load samples in five different file formats, as well as its own special instruments (synthetic sounds, hybrids and ExtSamples). See the ALSO SEE section for more details.

STEPS

EITHER Use the Load Instrument(s) file requester.

- 1) Select an instrument position. If the position is already occupied by an instrument, the new instrument will overwrite it. How?
- 2) Open the Load Instrument(s) file requester.
 - > Main Control window -> GetFile gadget OR Where?
 - > Instr menu -> Load Instrument(s) OR
 - > Sample Editor, Project menu -> Load Sample
- 3) Select one or more files to load.
 - How?
 - OR Use the Instrument Load window.
- 1) Open the Instrument Load window.
 - > Main Control window -> SList button OR
 - > Instr menu -> Load from List
- 2) Select an instrument position. This is easiest using the four buttons at the bottom of the window. The current instrument's number is sandwiched between the buttons. How?
- 3) Select the directory containing the desired instrument.
 - > Click on a directory name in the right-hand list, using the scroll bar if necessary
- 4) Load the instrument.
 - > Click on an instrument name in the left-hand list, using the scroll bar if necessary

NOTES

- * Upon loading, information about the instrument is displayed on the title bar. If the instrument is a sample or synthetic sound, its size will be shown in the form 'n [x] bytes'. n is the number of sample values in the instrument, x is the actual amount of memory consumed. (n and x differ for stereo and 16-bit samples.) The number of waveforms in a synthetic sound is also shown.
 - * Instead of using the Instrument Load window, you can use the full sample list editor to load instruments. Click on an instrument in the list, then click Load Inst. Where?
 - * A further method of loading instruments is to type an instrument name into the Main Control window's text box. Unless the instrument appears in the sample list, type in the instrument's full path.
- This only works if Load Instr from MainCtrl (Miscellaneous Options) is switched on. If off, typing in a name just renames the current instrument. More
- * By default, the file requester shows the directory containing the OctaMED program. If you have a favourite directory for instruments, it can be shown instead. Give the disk and directory name in the Default Directories window (Instruments text box). Where?
 - * If Add Path (Instr menu) is on, OctaMED adds the full path of the
-

instrument after loading. This can be useful when saving songs without instruments.

More

* The number of octaves in a loaded multi-octave sample is shown in the Instrument Type window. Where?

ALSO SEE

Instrument File Formats

How To Create A Sample List

1.15 Instruments / How To Load A Raw 16-Bit Sample

HOW TO LOAD A RAW 16-BIT SAMPLE

INTRODUCTION

Any truly raw sample can be loaded as 8-bit, converted to 16-bit then further converted for use with OctaMED. By 'truly raw', we mean a sample with no header whatsoever, just the sample data. There is no way of telling the resolution of such samples, hence the necessary 8-bit to 16-bit conversion.

Most 16-bit raw samples generated on the PC need to use the sample editor's Raw Sample Conversion tools after loading. Unsigned <-> Signed converts the usually 'unsigned' raw sample to OctaMED's required format, 'signed', and back.

Each value of a 16-bit sample takes 2 bytes of memory; use Swap Byte Order to swap the order of each value's pair of bytes. In OctaMED, the 'high' byte must come first.

STEPS

- 1) Load the raw sample.
 - How?
- 2) Convert it to 16-bit.
 - How?
- 3) If the sample sounds noisy and distorted, open the Sample Editor.
 - > Display menu -> Sample Editor OR
 - > Main Control window -> Edit button
- 4) Try swapping the sign of its values.
 - > Tools menu -> Raw Sample Conversion -> Signed <-> Unsigned
- 5) Still noisy? Try swapping the byte order of its values.
 - > Tools menu -> Raw Sample Conversion -> Swap Byte Order
- 6) Still noisy?? Try swapping the sign of its values again. Then you've tried all possible combinations!
 - > Tools menu -> Raw Sample Conversion -> Signed <-> Unsigned

NOTES

* OctaMED identifies a raw sample as 16-bit if the sample begins with the 8-byte header 'Raw16Bit'. 16-bit samples saved as Raw using OctaMED include this header.

* Signed <-> Unsigned also works with 8-bit samples.

1.16 Instruments / How To Save An Instrument

HOW TO SAVE AN INSTRUMENT

INTRODUCTION

Save an instrument to disk through the Instr menu or the sample editor's Project menu.

OctaMED can save samples in five different file formats, as well as its own special instruments (synthetic sounds, hybrids and ExtSamples). To save a special instrument, select any file format. For more details, see the ALSO SEE section.

Another convenient way of saving instruments is through the Sample
More
List Editor.

STEPS

1) Decide on the file format in which to save the instrument. More

2) EITHER Save the instrument through the Instr menu.
> Select Instr menu -> Save Instrument -> chosen file format

OR Save the instrument through the sample editor.
> Select sample editor's Project menu -> Save As chosen format

NOTES

* A Workbench icon can be saved with the sample. In the sample editor, switch on Settings menu -> Create Icons For Samples.

ALSO SEE

Instrument File Formats

How To Add Particular Instruments To Your Sample List

1.17 Instruments / How To Create A Sample List

HOW TO CREATE A SAMPLE LIST

INTRODUCTION

The sample list is a list of all your instruments. It is not limited to samples: Synthetic, hybrid and MIDI instruments can all be included. The list contains the name of each instrument and its location (disk and directory name).

You may acquire hundreds or even thousands of instruments over time, and the sample list is a way of organising them all. Instruments in your sample list are also very easy to load into
More
memory, through the Instrument Load window.

If all the instruments in your song are held in the sample list, you can save the song without its instruments. When the song is

More

later loaded, OctaMED uses the sample list to locate each instrument and, one by one, load them from your sample disks. Think of the amount of disk space saved by sharing instruments between your songs in this way!

The sample list is displayed in the Sample List Editor. On the right is a list of all directories in the list, on the left a list of instruments in the selected directory. Select a directory or instrument by clicking on its name. The properties of the selected instrument are shown below the lists.

To create a sample list from scratch, open the Sample List Editor and add your sample directories on each sample disk one by one, removing any files that are not instruments from the list. Finally, save the list (its usual name is MED_paths).

The Sample List Editor has its own menu strip, with Project and Format menus.

STEPS

- 1) Open the Sample List Editor.
 - > Display menu -> Sample List Editor
- 2) Add a directory containing samples to the list.
 - > Click Add Dir (below the Directories list) THEN
 - > Select a directory in the requester that appears
How?
 - 3) If the list isn't empty, OctaMED asks you where it should add the new directory.
 - > Click Top of the List [inserts before the first one] OR
 - > Click After Current [inserts after the current one] OR
 - > Click End of the List [adds after the last one]
- 4) OctaMED now loads the names of all files in the selected directory. If some of the files aren't instruments, remove them from the list.
 - > Select an instrument by clicking on its name THEN
 - > Click Remove (below the Instruments list)
- 5) Save the new list.
 - > Click Save List (below the Directories list) THEN
 - > If necessary, select a file in the requester. Usually, save under the default name.

NOTES

- * All instrument properties in the Instrument Properties window can More be set in the sample list. When an instrument is loaded through the list, its properties are set automatically. When adding complete directories, you must set the properties manually.
 - * For statistics on your sample list, select Project menu -> Statistics. The most interesting is probably the total number of samples in your list.
-

* Usually, the sample list is saved as 'MED_paths' in the directory containing the OctaMED program (PROGDIR:). This file is automatically loaded when OctaMED starts up.

By choosing a different name, you can define several sample lists. To load one of these lists, select Project menu -> Load List. You can choose to add the new list to the end of the old list, or replace the old list altogether.

* To clear the entire list, select Project menu -> Clear List.

ALSO SEE

How To Add Particular Instruments To Your Sample List

How To Remove Sample List Information

1.18 Instruments / How To Add Particular Instruments To Your Sample List

HOW TO ADD PARTICULAR INSTRUMENTS TO YOUR SAMPLE LIST

INTRODUCTION

The sample list is a list of all your instruments. It is not limited to samples: Synthetic, hybrid and MIDI instruments can all be included. The list contains the name of each instrument and its location (disk and directory name).

One way to add information to your sample list is to add whole directories containing instruments: Directory names and names of instruments in those directories are stored in the list. Another way is to add instruments individually. One advantage of this is that instrument properties are included. Instruments to be added must already be in memory, in your song.

Instruments can be added to the list and saved in the selected directory at the same time. You can set the file format of the saved instrument in the Sample List Editor's Format menu.

Instead of adding a single instrument to the list, you can add and save all instruments in your song to a particular directory. This is great for 'ripping' all the instruments out of other people's songs! The properties of all instruments are included.

STEPS

EITHER Add a single instrument.

- 1) Select the instrument to be added. How?
 - 2) Open the Sample List Editor.
> Display menu -> Sample List Editor
 - 3) Select the directory to add the instrument to.
> Click on a directory in the list
 - 4) EITHER Add the instrument to the directory both in the list and
-

on disk. In other words, add and save the instrument to disk.

- a) If necessary, select the file format. More
 - > Select a format in Format menu -> 8-Bit Samples OR
 - > Select a format in Format menu -> 16-Bit Samples

- b) Add and save the instrument to disk.
 - > Click Save Ins (below the Instruments list)

OR Add the instrument to the directory without saving it to disk.

- > Click Add (below the Instruments list)

OR Add all instruments in your song.

- 1) Open the Sample List Editor.
 - > Display menu -> Sample List Editor
- 2) Select the directory to add the instruments to.
 - > Click on a directory in the list
- 3) If necessary, select the file format. More
 - > Select a format in Format menu -> 8-Bit Samples OR
 - > Select a format in Format menu -> 16-Bit Samples
- 4) Add and save all the instruments in the selected directory.
 - > Click Save All Insts

NOTES

- * Your favourite 8-bit and 16-bit file format is saved with More settings.

ALSO SEE

How To Create A Sample List

How To Remove Sample List Information

1.19 Instruments / How To Remove Sample List Information

HOW TO REMOVE SAMPLE LIST INFORMATION

INTRODUCTION

The sample list is a list of all your instruments. It is not limited to samples: Synthetic, hybrid and MIDI instruments can all be included. The list contains the name of each instrument and its location (disk and directory name).

You can remove whole directories or individual instruments from your list, if they no longer exist or are relevant. You can also completely remove an instrument, both in the list and on disk; be careful with this one!

STEPS

- 1) Open the Sample List Editor.
 - > Display menu -> Sample List Editor

- 2) EITHER Remove a directory from the list.
 - a) Select a directory.
 - > Click on its name in the Directories list
 - b) Remove the selected directory from the list.
 - > Click Remove Dir (below the Directories list)
 - OR Remove an instrument.
 - a) Select the directory containing the instrument.
 - > Click on its name in the Directories list
 - b) Select an instrument.
 - > Click on its name in the Instruments list
 - c) EITHER Remove the selected instrument from the list.
 - > Click Remove (below the Instruments list)
 - OR Remove the instrument from the list AND delete it on disk.
 - > Click Del Ins (below the Instruments list)
- * Warning: There is no confirmation requester!

ALSO SEE

How To Create A Sample List

How To Add Particular Instruments To Your Sample List

How To Delete One Or More Files

1.20 Instruments / How To Save Part Of A Song As A Sample

HOW TO SAVE PART OF A SONG AS A SAMPLE

INTRODUCTION

The new Mix mode can play music through a selection of 'output devices', including your Amiga and 16-bit soundboards. It can also play to disk! This feature, called 'direct-to-disk recording', allows part or all of a song to be saved as a sample.

If many seconds of music are recorded, the sample may be pretty long! Still, direct-to-disk recording has many uses. You can construct a drum beat in a Tracker editor block over several tracks, then use this feature to 'sample' the drum beat. The resulting sample can then be used on a single track. In a 4-channel environment, every track is vital!

Alternatively, store an entire song on your hard drive as a sample, then use the Play16 program to play it using very little processor time. Or use the sample to record a song directly to your hard drive or a CD, without any unnecessary analogue-to-digital-and-back conversions. After all, the sample is a digital image of the song.

This how-to is based on section 10.5 of the printed manual, but it specifically shows you how to save part of a block (e.g. a drum

beat) as a sample. To save the whole song, jump straight to step 4.

STEPS

- 1) Select the appropriate block. How?

 - 2) Set up the block for recording.
 - a) Set where the recording should stop (e.g. at the end of the drum beat). To do this, add an OFFE player command on the last line of the part to be recorded. How?

 - b) Switch off any tracks that are not to be recorded. How?

 - c) Move to the first line of the part to be recorded. If it's the first line of the block, you needn't do this - just remember to click Play Block instead of Cont Block later on. How?

 - 3) If the recorded sample will be loaded back into OctaMED for use in a song, decide which note should be used to play the sample at its correct pitch, and determine the frequency of this note. The higher the note, the better the sound quality, but the longer the recorded sample.
 - a) Open the Sample Editor.
 - > Display menu -> Sample Editor OR
 - > Main Control window -> Edit button

 - b) Choose the note used to play the sample.
 - > Set the pitch box beside Pitch (bottom-right) How?

 - c) Make a note of the frequency displayed beside the pitch box. Call the number F.

 - d) Close the Sample Editor.
 - > Click its close gadget OR
 - > Select Project menu -> Exit Sample Editor

 - 4) To record the whole song, enter an OFFE player command at the very last line of the very last block played in the song. How?

 - 5) If necessary, change to Mix mode.
 - a) Open the Song Options window.
 - > Songs menu -> Set Options

 - b) Holding down a Shift key, click 1-64 Ch Mixing. (Holding down Shift transposes all notes in your song up two octaves.)

 - c) Close the Song Options window.
 - > Click Exit

 - 6) Set necessary Mix mode settings.
 - a) Open the Mixing Settings window.
 - > Settings menu -> Mixing Settings

 - b) Choose to record an 8-bit or 16-bit sample. The Amiga cannot currently play 16-bit samples, but 16-bit soundboards can. More
 - > Click Disk 8-bit (top-left) OR
 - > Click Disk 16-bit
-

- c) Choose to record a mono or a stereo sample. For use in a song, it should normally be mono.
 - > Switch off Stereo [record in mono] OR
 - > Switch on Stereo [record in stereo]
 - d) Switch smoothing on (recommended).
 - > Switch on Smoothing (top-right)
 - e) Set the recording frequency. If you followed step 3 above, set the frequency to F. Otherwise, set any frequency. The higher, the better the quality but the longer the sample.
 - > Type a number into the Requested box OR
 - > Adjust the Mixing Frequency slider
 - f) Set the number of channels to the maximum number of tracks used in the recorded part of your song. For example, if notes appear anywhere on track 5, set it to 6. It's best if your song uses consecutive tracks from track 0.
 - > Adjust the Max Channels slider. The lower, the better
 - g) Set a large mix buffer size.
 - > Set Mix Buffer Size to, say, 30000
 - h) Set other desired settings: Volume Adjust, Track Panning and Effects. Echo (in the Effects window) is especially effective. See sections 10.6 and 10.7 of the printed manual.
 - i) Close the window.
 - > Click Exit
- 7) Start recording.
- > Click Play Song [to record the whole song] OR
 - > Click Cont Block [to record part of a block] OR
 - > Click Play Block [to record part of a block from its start]
- 8) In the file requester, select a name for the recorded sample.
How?
In the next requester, select a file format for the sample. ←
More
(Different formats are available for 8-bit and 16-bit samples, and mono and stereo samples.)
- 9) When recorded, switch off Mix mode (unless your song uses Mix mode), and if necessary, load the instrument into memory to use
How?
in your song.
> Song menu -> Set Options
> Holding down a Shift key, click on your song's channel mode.
(The song's notes are transposed back down 2 octaves.)
- * If your song uses Mix mode, your usual output device will have been re-selected.

NOTES

- * If you followed every step, congratulations on completing the longest how-to in these help pages!
-

* The volume of the produced sample is usually not very loud, so increase Volume Adjust to (say) 125 - this may cause distortion, so experiment! In hindsight, increase the volume to the maximum possible without distortion in the Change Volume window. How?

1.21 Loading, Saving, Printing / Settings

HOW TO...

Load settings

Save settings

OVERVIEW

OctaMED is a 'configurable' program, in that you can set it up just how you like it. No two people's ideal 'configuration' is likely to be the same.

The configuration is a number of options throughout the program which can be 'saved with settings', or stored in a settings file. You can save as many different settings files as you wish, but one particular file is automatically loaded when OctaMED starts up. It's called Soundstudio.config, and must be placed in the directory containing the OctaMED program (PROGDIR:).

You can set different combinations of options for a variety of scenarios, and save them in different settings files. Any of these settings files can be loaded into OctaMED at any point. You might have one setting file for MIDI use, another for playing in Mix mode, another that uses a different screen mode or font, and so on.

The precise options saved with settings are listed in the Brief guide appendix The Settings File . If you switch on Show Changed Settings (Miscellaneous Options window), however, you can test whether or not a particular option is saved with settings.

1.22 Settings / How To Load Settings

HOW TO LOAD SETTINGS

INTRODUCTION

Select and load a settings file through the Settings menu. After loading, the options in the file are set. This involves closing and reopening the entire screen, in case there are any changes to the screen mode or font.

STEPS

- 1) Select a settings file to load, and load it.
 - > Settings menu -> Load Settings

ALSO SEE

How To Save Settings
The Settings File

1.23 Settings / How To Save Settings

HOW TO SAVE SETTINGS

INTRODUCTION

Save a settings file through the Settings menu. Usually, you'll want to save under the 'default' name, PROGDIR:Soundstudio.config, so that the saved options are set whenever OctaMED starts up. A separate menu item is provided for this purpose.

The precise options saved with settings are listed in the Brief guide appendix The Settings File .

STEPS

1) EITHER Save settings under the usual name.

> Select Settings menu -> Save Settings

OR Select any name and save settings under that name.

> Select Settings menu -> Save Settings As

NOTES

* Important: The windows currently open are saved with settings. These windows are reopened when OctaMED loads the settings (often on startup). So when you save settings, be careful which windows are open!

* To test whether individual options are saved with settings, switch on Miscellaneous Options window -> Show Changed Settings, then alter the value of an option (e.g. switch it off or set it to 2).

If the option is saved with settings, an (S) appears at the end of the message on the screen's title bar. The ARexx name of the option is also given.

ALSO SEE

How To Load Settings

1.24 Loading, Saving, Printing / Printing A Song

HOW TO...

Print a song in Tracker editor format

Print a song in standard notation

OVERVIEW

If you have a printer, you can print out your masterpiece in Tracker editor format or standard musical notation. Printing in standard musical notation is the more useful, as this can be used as sheet music for playing on a real instrument.

Both printing methods ask you which part of the song to print. In Tracker editor format, you supply starting and ending block numbers. In standard notation, you specify starting and ending

'displayfuls' of measures. The number of measures per displayful can be set. How?

As printing in standard notation is more useful, it is the most flexible. Any settings applying to the notation editor display, set in the Notation Display Setup window, also apply to printing. In addition, you can set the 'resolution' - print quality - of the printout. The actual quality of print depends on your PrinterGfx Preferences settings and, of course, on your printer. More

A particularly useful feature of Tracker editor printing, however, is the 'print header'. Printed just before your song, the header contains useful song information, such as a list of its instruments and their properties, track volumes and playing sequence. The header is not available with Print Notation.

1.25 Printing A Song / How To Print A Song In Tracker Editor Format

HOW TO PRINT A SONG IN TRACKER EDITOR FORMAT

INTRODUCTION

Use the Print Options window to print a song in the way it's shown in the Tracker editor. The whole song or a range of blocks can be printed, as plain text. Highlighted lines are printed in bold. More

Optionally, you can 'print to a file'. This means saving to disk the information that would normally be printed. You can load such a file into a text viewer or editor.

A useful feature of printing in Tracker editor format is the 'print header'. Printed just before your song, the header contains useful song information (see notes).

STEPS

- 1) Open the Print Options window.
 - > Project menu -> Print
- 2) If desired, save the printout in a file instead of printing it.
 - > Type a filename into the Output File text box OR
 - > Click on the GetFile gadget beside the text box, and select a file in the requester
 - How?
 - 3) Set the blocks to be printed. All blocks, the current block or a range of blocks (e.g. numbers 8 to 11) can be printed. ←
 - > Click All Blocks OR
 - > Click Current Block OR
 - > Set the Start Block and End Block appropriately
- 4) If desired, choose not to print the blocks, only the header.
 - > Set the cycle gadget below Options to Don't Print Blocks
- 5) If desired, choose not to print the header. If Don't Print Blocks is also set, nothing will be printed!
 - > Switch off Print Header (bottom-right)

- 6) If desired, choose not to print a formfeed after the header and between blocks. The formfeed ensures that each block begins on a new page.
> Switch off Form Feed (bottom-right)
- 7) Print the song.
> Click Print

NOTES

- * Be careful: Once you've started printing, there's no way to stop it! (unlike printing in standard notation)
- * The print header includes a list of instruments and their properties, track volumes, playing sequence(s), section list, song tempo and play transpose.
- * OctaMED prints by sending information to the PRT: device. Other possible devices are PAR: and SER:, which may be set in the Output File box.

1.26 Printing A Song / How To Print A Song In Standard Notation

HOW TO PRINT A SONG IN STANDARD NOTATION

INTRODUCTION

This how-to assumes that you're familiar with the notation editor. [More](#)

Through the notation editor's Print Notation window, OctaMED can print a song in standard musical notation. The printout can be used as 'sheet music' to be played on a musical instrument. Temporarily removed in OctaMED V6, this feature is now better than ever!

The entire song or just part of the song can be printed. While printing in Tracker editor format requires the starting and ending block numbers, printing in standard notation requires starting and ending 'displayfuls' of measures. The number of measures per displayful is set in the Notation Display Setup window.

In fact, all options in Notation Display Setup affect printing. You can choose how wide staves should be, whether or not to print staff names, and whether to print blocks in numerical order or in the order in which they appear in the playing sequence. [More](#)

So the logic behind printing is: What you see on the screen is what you get on the page. The only respect in which the display and the printout differ is that Space Above and Space Below (Staff Setup window) are both ignored. OctaMED works out the spacing between staves so that notes are never 'clipped'. [More](#)

In the Print Notation window, as well as stating the part of the song to be printed, you must select the 'print resolution': the print quality. 1\$times\$ resolution uses the standard Amiga font, while other resolutions use the higher-quality Compugraphic font. Higher resolutions, however, take more time and require more memory.

Print quality also depends on the PrinterGfx Preferences settings

(on your Workbench disk), and, of course, on the type of printer you own. If you have a dot matrix printer, select 1 \times . Higher resolutions are recommended for bubble jet, ink jet or laser printers.

STEPS

- 1) Set any required options in the Notation Display Setup window.
 - > Windows menu -> Display Setup
 - > Set the options as required
- 2) Open the Print Notation window.
 - > Notation editor's Project menu -> Print
- 3) Set the part of the song to print, in 'displayfuls' of measures. A displayful is whatever is displayed in the notation editor in one go. The Current buttons set Start or End to the current displayful. When you open the window, Start and End are set up to print the entire song.
 - > Type a number into Start OR click Current THEN
 - > Type a number into End OR click Current
- 4) Set the print 'resolution' (quality).
 - > Set Resolution to 1 \times (Std Font) or 2 \times , 4 \times or 8 \times (← CG Font)
- 5) Print the song.
 - > Click Print
- 6) If necessary, interrupt the printing.
 - > Click Stop in the requester which appears

NOTES

- * When selecting the resolution, it is important to consider your available memory. 2 \times , 4 \times and 8 \times require 4, 16 and 64 times ← more memory than 1 \times ! OctaMED uses a print buffer, the size of which is determined by the resolution, the number of staves and the staff width. Also, the Compugraphic font takes more memory than the standard font.

The important setting in the PrinterGfx program is Density.
