

**IFFMaster**

COLLABORATORS

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# Chapter 1

## IFFMaster

### 1.1 IFFMaster.guide

IFF Master

Version 1.3 - Freeware

(C) 1994 by Kay Drangmeister

General

Installation

Usage

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### 1.2 IFFMaster.guide/General

General

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IFF MASTER is a program that allows you to have a view inside the structure of IFF files. It is not yet another picture viewer or sound sample player, but it displays the internal entities (chunks) of a file. For example, the headers of pictures (ILBM) or sound samples (8SVX) are displayed in clear, so you can directly read the size and depth of the image or the sampling rate.

From time to time you will find an unknown file on your hard disk, let's say a preference file. Since preference files are often stored in IFFFormat, there is a chance you can directly examine the contents. There are some programs which write incorrect IFF files (e.g. the ILBM.CAMG chunk is a likely candidate), or which write additional information

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(e.g. copyright or author chunks). With IFF MASTER you can easily verify such cases.

In future versions (see History) there will be options to manipulate files, e.g. delete/edit/add texts inside ANNO chunks, or add new chunks like a DPI chunk for images.

Current features include:

- \* MUI application
- \* localized GUI (with AmigaOS 2.1 or later)
- \* Extensive chunk type library (currently 37 form types, 234 known chunks, 60 of these with comprehensive structure description)
- \* Chunk contents are presented alternatively as structure, text or hex dump
- \* Bit fields and enumeration types are displayed in clear
- \* Fixed point values are printed in decimal (e.g. 8SVX.VHDR.Volume)
- \* Callback hooks for special attributes, e.g. the Mode-ID inside the CAMG chunk is de-referenced (e.g. PAL: Hires).

IFF MASTER is distributed under the concept of freeware. Standard disclaimer applies to this program.

## 1.3 IFFMaster.guide/Installation

Installation

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Nothing to it: just leave all files and the catalogs directory as they are in one directory, or alternatively copy the appropriate iffmaster.catalog to into the system's locale directory (i.e. LOCALE:Catalogs/yourlanguage/). By the way: if you mixed up catalog files for different languages, just use IFF MASTER to discover the catalog's language... :)

System requirements are:

- \* AmigaOS 2.0, or AmigaOS 2.1 for localized GUI
- \* MUI version 2.1 (muimaster.library v8), See MUI.

If you wish to start IFF MASTER inside the user-startup, you should do this with runback iffmaster iconified. This will cause IFF MASTER to start as an AppIcon, so that Icons may be dragged onto this Icon.

## 1.4 IFFMaster.guide/Usage

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## Usage

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The main window consists of 3 groups. The topmost one is the file specification group, the middle part is the chunk list and below there are the action buttons.

The current version has limited capabilities to manipulate files, some concerning action buttons (e.g. Add, Edit) are inactive. However, moving (Up, Down) and deleting (Del) chunks is possible. Be warned that files may become unreadable to some applications if you delete mandatory chunks, i.e. if you delete the ILBM/BMHD chunk of a picture it will become undecodeable. To activate the manipulation buttons select Prefs/Editable file from menu. If that menu item is inactive (it can be locked if you are still unsure about the program's functions) you can activate it by opening the preferences window and setting the File editable switch to be off for new files or to be left unchanged.

## File Specification

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There are different ways to open a file. The most common one is by selecting Project/Open... from the menu, or by clicking on the popup gadget beside the string gadget for getting a file requester. Alternatively, you can simply drag an icon on IFF MASTER's main window (AppWindow). Furthermore, you can open the file which is currently in the clipboard by using the menu item Project/Open Clip.

## The Chunk List

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The chunk list can show several types of information: the left column shows the chunk ID (e.g. BMHD), then there is the chunk type (e.g. ILBM), and at the right side there is the size of the chunk. Below the action buttons there is a cycle gadget labeled Show that specifies the format of the chunk list. If it states Description you will get a description of the chunk's purpose (e.g. Bitmap Header), and Contents will display a short summary of the chunk's contents. You can advance the cycle gadget by pressing the space key.

Because it is impossible to display the entire contents of a chunk in a single line you can get a comprehensive list by first selecting a chunk in the chunk list and then pressing Info (you can as well double-click on the chunk). A new window containing the chunk's contents will appear. You can display the contents either as structure, plain text or as a hex dump. Change the presentation by using the register above the contents list, or by pressing cursor left and cursor right.

You need not close the contents window to display the contents of another chunk. Just click on that chunk in the chunk list or press cursor up or cursor down after having activated the chunk list via the TAB key. The new contents are displayed using the appropriate data type.

## 1.5 IFFMaster.guide/Problems?

Problems?

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Building hex dumps of very large chunks (e.g. ILBM.BODY) can take a long time. Therefore the number of bytes in a hex dump can be limited to a certain ammount. The default limit is 512 bytes, it can be adjusted or turned off in the Preferences (select Settings/Set Prefs... from menu).

Some chunks (e.g. FORM) are container chunks with no contents, and therefore there is no presentation. Some other chunks (e.g. BODY) contain raw data, presentation of these chunks is limited to hex dump.

## 1.6 IFFMaster.guide/Credits

Credits

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I like to thank:  
Stefan Stuntz  
for MUI, See MUI.

Eric Totel  
for MUI-Builder

Kai Iske  
for Support and Betatesting

Thomas Reinhardt  
for his IFF files

H. Phil Duby  
Klaus Seistrup  
for bug reports and comments

## 1.7 IFFMaster.guide/MUI

MUI

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This application uses

MUI - MagicUserInterface

(c) Copyright 1993/94 by Stefan Stuntz

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MUI is a system to generate and maintain graphical user interfaces. With the aid of a preferences program, the user of an application has the ability to customize the outfit according to his personal taste.

MUI is distributed as shareware. To obtain a complete package containing lots of examples and more information about registration please look for a file called "muiXXusr.lha" (XX means the latest version number) on your local bulletin boards or on public domain disks.

If you want to register directly, feel free to send

DM 30.- or US\$ 20.-

to

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## 1.8 IFFMaster.guide/History

History

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Version 1.0

First release

Version 1.1

FIX

version 1.0 was compiled with option 68030 - sorry!

NEW

many new chunk types

NEW

menu (moved about and prefs into the menu, gaining some space)

NEW

specifying file names at command line

NEW

loading files directly from clipboard

NEW

improved keyboard handling

Version 1.2

NEW

fully localized GUI

NEW

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chunk contents can be saved

NEW

AppWindow and AppIcon, command line option iconified

NEW

improved formatting capabilities for structure entries

NEW

sophisticated IFF parser, even brain-dead formats like EMOD.EMIC are handled appropriately

NEW

chunks now have nominal length, a message is displayed if a chunk is too short or too long

BUG

Beta testers reported problems with de-iconify function when an icon was dropped onto the AppIcon. I removed the said call, so you have to double-click the AppIcon after dropping an icon.

#### Version 1.3

BUG

prefs window: close gadget now functioning

BUG

Cycle chain (TAB) now works in all windows

NEW

new chunk types: IAND, IANM, DR2D, RGB8, RGBN, SPLT

NEW

hex numbers get a user-chosen indicator, construction of hex dumps is now more than 3 times faster

NEW

IFFs can be saved, even nested FORMs, e.g. images inside animations

NEW

Implemented some editing capabilities (delete chunks)

NEW

Preferences can be saved

I would greatly appreciate new ideas and enhancement requests. If you discover any chunk unknown to IFF MASTER, please let me know (i.e. try to send me that (short) file or even a description of the chunk's structure, if known). If you dare to translate the catalog to your language, please contact me, I will send you the ct file and the instructions.

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## 1.9 IFFMaster.guide/Chunks

Chunks

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Following chunks are currently known to IFF MASTER:

[anywhere]  
CSET, FVER, ANNO, AUTH, CHRS, HLID, NAME, TEXT, (c)

3DDD  
OBJE

8SVX  
ATAK, BODY, CHAN, FADE, PAN , RLSE, SEQN, VHDR

ANIM  
ANSQ

AVCF  
AVFH, GDAT

AVCO  
CDAT, FLAG, IMAG

AVEV  
ACTS, CDAT, FLAG, IMAG, PARS, REFL

COPR  
COPI, WAIT, MOVE

CTLG  
LANG, STRS

DEEP  
DBOD, DGBL, DLOC, DPEL

DR2D  
ATTR, CMAP, CPLY, DASH, DRHD, FONS, OPLY

DTYP  
DTHD, DTCD

EMOD  
8SMP, EMIC, PATT

ENVL  
LFOI, COEN, VOEN, PIEN, NOEN, REEN, PHEN

FAX3  
FXHD, GPHD, PAGE

FAXX  
FXHD, GPHD, PAGE

FTXT

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FONS

IAND  
BPCT, CMAP, BODY

IANM  
BMHD, CAMG, BODY

ILBM  
ANHD, ASDG, BHCP, BHSI, BMHD, BODY, CAMG, CCRT, CLUT, CMAP, CRNG,  
DEST, DLTA, DMMY, DPAN, DPI , DPPS, DPPV, DRNG, FFEX, FITR, FXD2,  
FXPL, GRAB, JUNK, MAND, SPRT

ISTG  
MAXF, SOBJ

KCXM  
VERS, PREF

LWOB  
PNTS, POLS, SRFS, SURF

MTRX  
ARRY, BODY, DTYP, STRU

PREF  
ALRT, CONF, CTRY, EVNT, ETXT, FLOP, FONT, ICTL, INPT, KEYS, LCLE,  
MENU, MIDI, OPER, OSCN, PALT, PATH, PDAT, PNTR, PRHD, PGFX, PSPD,  
PTRN, PTXT, PUNT, SCRM, SERL, SHMN, SOND, TMAC, TMDO, TMEX, TMIC,  
TMIM, TMMO, TMSO, VERS, WBCF, WBPC, XDOS

PTCH  
INPF, OUTF, PSEQ, VERS

REAL  
RANI, RATT, RMTR, ROBJ, RSCR, RSET, RVRS, RWIN

RGB8  
BMHD, BODY, CAMG, CMAP, IMRT

RGBN  
BMHD, BODY, CAMG, CMAP, IMRT

SC3D  
EDGE, FACE, HIER, LAMP, LNAM, OBSV, PATH, VERT, VNAM, WRLD

SMUS  
SHDR, INS1, INST, SNX1, TRAK

SPLT  
INFO, BODY

TACF  
TPAR, TPBR, TPCA, TPCM, TPMA, TPP1, TPPA, TPPX, TPSC, TPSE, VERS

TAKE  
TFRM, THDR

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TDDD

INFO, OBJ

TERM

CLIP, COMD, CPTR, DATE, DIAL, EMLN, FAST, FILE, MISC, MODM, PATH,  
PHON, RECV, SCRN, SEND, SERL, SOUN, SPEK, TRML, TRNS, VERS, WINF,  
WIND, XFER

TVP2

TVRX

VILL

CRC , MODE, MONI, VER

I am still looking for descriptions for the chunks in smaller print.

## 1.10 IFFMaster.guide/Author

Author

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## 1.11 IFFMaster.guide/Index

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