
*** Mac OS Alias Record Format ***

- values use big endian (network) byte order
- general terms: integer = signed value
- general values: byte = 8-bit value; short/word = 16-bit value; long = 32-bit value
- fixed point values: value made up of an integer for whole numbers and an unsigned value for the decimal
- octal values: base-8 long unsigned values (values containing 8 and 9 are invalid)

FILE INFO

Suffix = N/A; Mac OS Application Type = "adrp"; Mac OS Folder Type = "fdrp";

Resource Type = "alis"; MIME=N/A

Mac OS resource fork based binary format that provides a link to files and folders on HFS/HFS+ volumes.

Can be used as a self contained file or part of an existing format.

ALIAS RECORD STRUCTURE

Note: the record is for use with the Apple's Alias File Manager. A basic record is 150 bytes in length excluding extra info. The Mac OS uses colons in file paths instead of forward slashes as used in URLs, so the colon can't be used in file, directory nor disk names. Also directories and files have a Mac OS name limit of 31 characters. Disks have a limit of 27 characters.

- > 4 bytes user type name/app creator code = long ASCII text string (none = 0)
- > 2 bytes record size = short unsigned total length
- > 2 bytes record version = short integer version (current version = 2)
- > 2 bytes alias kind = short integer value (file = 0; directory = 1)
- > 1 byte volume name string length = byte unsigned length
- > 27 bytes volume name string
- > NOTE: if volume name string < 27 chars then pad with zeros
- > 4 bytes volume created mac date = long unsigned value in seconds since beginning 1904 to 2040
- > 2 bytes volume signature = short unsigned HFS value
- > 2 bytes volume type = short integer mac os value
 - types are Fixed HD = 0; Network Disk = 1; 400kB FD = 2
 - types are 800kB FD = 3; 1.4MB FD = 4; Other Ejectable Media = 5
- > 2 bytes parent directory id = short unsigned HFS value
- > 1 bytes file name string length = byte unsigned length
- > 63 bytes file name string

-> NOTE: if file name string < 63 chars then pad with zeros
-> 4 bytes file number = long unsigned HFS value
-> 4 bytes file created mac date = long unsigned value in seconds since beginning 1904 to 2040
-> 4 bytes file type name = long ASCII text string
-> 4 bytes file creator name = long ASCII text string
-> 2 bytes nlvl From (directories from alias thru to root) = short integer range
-> 2 bytes nlvl To (directories from root thru to source) = short integer range
-> NOTE: if alias on different volume then set above to -1
-> 4 bytes volume attributes = long hex flags
-> 2 bytes volume file system id = short integer HFS value
-> 10 bytes reserved = 80-bit value set to zero
* 4+ bytes optional extra data strings = short integer type + short unsigned string length
- types are Extended Info End = -1; Directory Name = 0; Directory IDs = 1
- types are Absolute Path = 2; AppleShare Zone Name = 3; AppleShare Server Name = 4
- types are AppleShare User Name = 5; Driver Name = 6; Revised AppleShare info = 9
- types are AppleRemoteAccess dialup info = 10
-> string data = hex dump
-> odd lengths have a 1 byte odd string length pad = byte value set to zero

ALIAS RECORD STRUCTURE OUTSIDE OF SIZE LENGTH

Note: the following is for use with the Apple's Alias Resource Manager.

-> 4 bytes resource type name = long ASCII text string
-> 2 bytes resource ID = short integer value
-> 2 bytes resource end pad = short value set to zero

BFF: A grammar for Binary File Formats

With a growing number of binary formats that are being used, there is a need for specifying these formats in a well-defined way. Context free grammars have been used to specify the syntax of programming languages. To use a grammar for binary file formats seems to be a logical choice.

In this page such a grammar, named BFF, is described. It has several constructs that are not traditionally found in context free grammars for programming language. Due to the nature of binary file formats, it is important to be able to reference information that has been read before. For example, a string of characters might be preceded by a number that indicates the length of the string.

The terminal symbols of the grammar consist of a number of bytes, representing one of the basic data types, such as: char, short int, long int, float and double. Differences in byte ordering for integers, and the different formats for floating point numbers should be taken into account.

Due to the nature of binary formats, it is not too restrictive to use only recursive descent grammars, e.i., grammars that can be parsed top-down, and belong to the LL(1) class.

The BFF is tested for the DWG file format. As we start with this file format, BFF will naturally first focus on the requirements based on this format, and because of this it will be slightly biased.

To specify the grammar of BFF we will use a form of extended BNF.

Tool support for BFF

The first tool I am thinking about is a program that can read the grammar and apply this to a given binary file, resulting in an annotated output. With this tool should also support the reverse engineering of binary file formats.

In a later state, a tool could be made that generates a parser and the needed data structures for reading a binary file into memory according to the grammar. As it is not always required (nor possible) to read the whole file into memory, it should be possible to generate procedures to read the file interactively.

The form of the BFF grammar

A grammar that describes a Binary File Format consists of the specification of the elementary units of data, and the rules by which these should be grouped together.

The elementary units

We assume that a Binary File can be viewed as a stream of bytes (as this is the most commonly used unit of data). Usually a number of bytes are grouped together to form data values that cannot be represented by a single byte.

To specify a word value consisting of two bytes, for example, we propose the following definition style:

```
type word :=
    byte : first,
    byte : second
    return ((word)first | ((word)second << 8)).
```

A word representation where the lower order byte comes before the higher order is usually used by small Endian processors. The expression used on will be based on C. We assume that the following types have been defined on top of the default types of C:

```
typedef unsigned char    byte;
typedef unsigned short int word;
typedef unsigned long int longword;
```

This leads us to the definition of the basic types that will be supported:

```

C_data_types :=
  "char"   | "byte"   |
  "short"  | "word"   |
  "long"   | "longword" |
  "float"  | "double" .

```

(We assume for the moment that float and double represent floating numbers of 4, respectively 10 bytes.) The grammar of the rule used for defining types is:

```

type_def_rule :=
  "typedef" C_data_type basic_type_name "=="
  ("byte" ":" byte_name) LIST
  "return" expr "." .

```

Here expr stands for C-like expression using the byte_names as they are used in the rule. The basic_type_names should not be confused with the C_type_names. It is possible that the same name is both used as a basic_type_name and a C_type_name.

The rules

The grammar that specifies in which order elementary units are taken from a binary file, makes use of non-terminal symbols and rules for each non-terminal symbol. There will be one non-terminal symbol that will parse the whole binary file, which will be called the root non-terminal symbol. For each non-terminal symbol there has to be a rule describing the elements it consists of, where each element is either an elementary elements or a non-terminal symbols. The rule of the root non-terminal symbol comes as the first rule, and is preceded with the word `root'. The whole BFF grammar follows the following grammar:

```

BFF_grammar :=
  type_def_rule SEQ
  "root" rule
  rule SEQ.

```

Each rule has a non-terminal symbol on the left-hand side, and a list of elements on the right-hand side. Each element is either a elementary element, a non-terminal symbol, or a grouping of elements. Because BFF assumes a top-down parsing method, it is possible to give each non-terminal symbol a number of parameters. This leads to the following grammar for the rules:

```

rule :=
  non_term_name ( "(" param LIST ")" )OPT
  "==" elem LIST "." .

```

Each element consist of the following parts:

- * An (optional) range, which specifies the range of the file that element may read.
- * A data type, which can either be a elementary unit, a non-terminal symbol, or a list of elements enclosed by brackets.
- * An (optional) times expression, to indicate that the element can be repeated, either for a given number of times or for an unknown number of times.
- * An (optional) identifying name, which can be used later to reference the value found.
- * An (optional) equivalence expression, which can be used for checking.

The following grammar describes an element:

```
elem := range OPT
      data_type
      ( "[" expr "]"
      | "*" )
      ( ":" elem_name )OPT
      ( "=" C_expr )OPT.
range := "[" file_pos (":" file_pos)OPT "]"
file_pos := "begin" | "end" | "cur" | expr.
data_type := "(" elem LIST ")"
           | basic_type_name
           | non_term_name ( "(" expr LIST ")" )OPT.
(To be continued....)
```

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CDA music tracks file format

by Wojtek Kaniewski 1997

Note: Everything in this file is based on my own investigations.

All information that you'll find in this text file do not come from Microsoft Corp.

CDA files are generally RIFF resources. The RIFF id of .CDA file is "CDDA" (43h, 44h, 44h, 41h). They contain only one data block called "fmt " (66h, 6dh, 74h, 20h). In current version of .CDA file, this block is 24 bytes long. Here's structure of it:

Offset	Length	Description
00h	02h	CDA file version. Currently equals 1. If it has

other value, following data may be out of date.

02h	02h	Number of track.
04h	04h	CD disc serial number (the one stored in CDPLAYER.INI)
08h	04h	Beginning of the track in HSG format.
0Ch	04h	Length of the track in HSG format.
10h	04h	Beginning of the track in Red-Book format.
14h	04h	Length of the track in Red-Book format.

As you see, time is represented in two formats: HSG and Red-Book.
HSG can be calculated as following:

time = minute * 4500 + second * 75 + frame
Red-book is much easier to use, because it contains minutes,
seconds and frames in unmodified form, byte-packed:

Offset	Length	Description
00h	01h	Frame
01h	01h	Second
02h	01h	Minute
03h	01h	not used

Now, I'll show you an example file. First part is a hex dump
of the file, the second is the explanation of the fields.

```
52 49 46 46 24 00 00 00 43 44 44 41 66 6D 74 20 RIFF$...CDDAfmt
18 00 00 00 01 00 04 00 B8 24 F6 00 F7 11 01 00 .....$.
B4 5C 00 00 0A 25 0F 00 20 10 05 00          .\...%.. ...
01 00          - first version of CDA file :)
04 00          - fourth track
B8 24 F6 00 - serial number of CD in CDPLAYER.INI is [F623B8]
F7 11 01 00 - begining of track in HSG format
B4 5C 00 00 - length of track in HSG format
0A 25 0F 00 - begining of track in Red-Book format (15:37)
20 10 05 00 - length of track in Red-book format (05:16)
```

That's all. It should be enough to write CDA Viewer :) If you need more
info or something isn't clear, feel free to write.

Wojtek Kaniewski
wojtekka@logonet.com.pl
CDA music tracks file format
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Offset	Length	Description
00h	02h	CDA file version. Currently equals 1. If it has other value, following data may be out of date.
02h	02h	Number of track.
04h	04h	CD disc serial number (the one stored in CDPLAYER.INI)
08h	04h	Beginning of the track in HSG format.
0Ch	04h	Length of the track in HSG format.
10h	04h	Beginning of the track in Red-Book format.
14h	04h	Length of the track in Red-Book format.

As you see, time is represented in two formats: HSG and Red-Book. HSG can be calculated as following:

$$\text{time} = \text{minute} * 4500 + \text{second} * 75 + \text{frame}$$

Red-book is much easier to use, because it contains minutes, seconds and frames in unmodified form, byte-packed:

Offset	Length	Description
00h	01h	Frame
01h	01h	Second
02h	01h	Minute
03h	01h	not used

Now, I'll show you an example file. First part is a hex dump of the file, the second is the explanation of the fields.

```

52 49 46 46 24 00 00 00  43 44 44 41 66 6D 74 20  RIFF$\...CDDAfmt
18 00 00 00 01 00 04 00  B8 24 F6 00 F7 11 01 00  .....$.....
B4 5C 00 00 0A 25 0F 00  20 10 05 00                .\...%.. ...
01 00                    - first version of CDA file :)
04 00                    - fourth track
B8 24 F6 00 - serial number of CD in CDPLAYER.INI is [F623B8]
F7 11 01 00 - begining of track in HSG format
B4 5C 00 00 - length of track in HSG format
0A 25 0F 00 - begining of track in Red-Book format (15:37)
20 10 05 00 - length of track in Red-book format (05:16)

```

That's all. It should be enough to write CDA Viewer :) If you need more info or something isn't clear, feel free to write.

Wojtek Kaniewski

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WAVE and AVI Codec Registries

Internet applications may reference specific codecs within the WAVE and AVI registries as follows:

- * video/vnd.avi; codec=XXX identifies a specific video codec (i.e., XXX) within the AVI Registry.
- * audio/vnd.wave; codec=YYY identifies a specific audio codec (i.e., YYY) within the WAVE Registry.

The following provides an authoritative reference for the interpretation of the required "codec" parameter [RFC2361]. That is, the current set of audio codecs that are registered within the WAVE Registry are enumerated in Section A. Section B enumerates the current set of video codecs that have been registered to date within the AVI Registry.

Section A - Audio Codecs from the Microsoft WAVE Registry

A.1 Microsoft Unknown Wave Format

WAVE form Registration Number (hex): 0x0000
Codec ID in the IANA Namespace: audio/vnd.wave;codec=0
WAVE form wFormatTag ID: WAVE_FORMAT_UNKNOWN
Contact:

Terri Hendry, 425-936-2069
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399 USA

A.2 Microsoft PCM Format

WAVE form Registration Number (hex): 0x0001
Codec ID in the IANA Namespace: audio/vnd.wave;codec=1
WAVE form wFormatTag ID: WAVE_FORMAT_PCM
Contact:

Terri Hendry
425-936-2069
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399 USA

A.3 Microsoft ADPCM Format

WAVE form Registration Number (hex): 0x0002
Codec ID in the IANA Namespace: audio/vnd.wave;codec=2
WAVE form wFormatTag ID: WAVE_FORMAT_ADPCM
Contact:

Terri Hendry
425-936-2069
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399 USA

A.4 IEEE Float

WAVE form Registration Number (hex): 0x0003
Codec ID in the IANA Namespace: audio/vnd.wave;codec=3
WAVE form wFormatTag ID: WAVE_FORMAT_IEEE_FLOAT
Contact:

Terri Hendry
425-936-2069
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399 USA

A.5 Compaq Computer's VSELP

WAVE form Registration Number (hex): 0x0004
Codec ID in the IANA Namespace: audio/vnd.wave;codec=4
WAVE form wFormatTag ID: WAVE_FORMAT_VSELP
Additional information: VSELP codec for Windows CE 2.0 devices
Contact:

Doug Stewart
713-374-7925
Compaq Computer Corporation
20555 SH 249
Houston, TX 77269-2000 USA

A.6 IBM CVSD

WAVE form Registration Number (hex): 0x0005
Codec ID in the IANA Namespace: audio/vnd.wave;codec=5
WAVE form wFormatTag ID: WAVE_FORMAT_IBM_CVSD
Contact:

IBM Corporation
A.7 Microsoft ALAW

WAVE form Registration Number (hex): 0x0006
Codec ID in the IANA Namespace: audio/vnd.wave;codec=6
WAVE form wFormatTag ID: WAVE_FORMAT_ALAW
Contact:

Terri Hendry
425-936-2069

Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399 USA
A.8 Microsoft MULAW

WAVE form Registration Number (hex): 0x0007
Codec ID in the IANA Namespace: audio/vnd.wave;codec=7
WAVE form wFormatTag ID: WAVE_FORMAT_MULAW

Contact:

Terri Hendry
425-936-2069

Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399 USA
A.9 OKI ADPCM

WAVE form Registration Number (hex): 0x0010
Codec ID in the IANA Namespace: audio/vnd.wave;codec=10
WAVE form wFormatTag ID: WAVE_FORMAT_OKI_ADPCM

Contact:

Oki

A.10 Intel's DVI ADPCM

WAVE form Registration Number (hex): 0x0011
Codec ID in the IANA Namespace: audio/vnd.wave;codec=11
WAVE form wFormatTag ID: WAVE_FORMAT_DVI_ADPCM

Contact:

Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, OR 97124
503-696-2448

A.11 Videologic's MediaSpace ADPCM

WAVE form Registration Number (hex): 0x0012
Codec ID in the IANA Namespace: audio/vnd.wave;codec=12
WAVE form wFormatTag ID: WAVE_FORMAT_MEDIASPACE_ADPCM

Contact:

Videologic
Home Park Estate
Kings Langley England WD4 8LZ
Telephone: 44-92-326-0511

A.12 Sierra ADPCM

WAVE form Registration Number (hex): 0x0013

Codec ID in the IANA Namespace:	audio/vnd.wave;codec=13
WAVE form wFormatTag ID:	WAVE_FORMAT_SIERRA_ADPCM
Contact:	
Stuart Goldstein	
72170.301@compuserve.com	
Sierra Semiconductor Corp	
2075 North Capitol Avenue	
San Jose, California 95132 USA	
408-263-9300	
A.13 G.723 ADPCM	
WAVE form Registration Number (hex):	0x0014
Codec ID in the IANA Namespace:	audio/vnd.wave;codec=14
WAVE form wFormatTag ID:	WAVE_FORMAT_G723_ADPCM
Contact:	
Bob Bauman	
310-532-3092	
Antex Electronics Coporation	
3184-H Airway Ave.	
Costa Mesa, California 92627 USA	
A.14 DSP Solution's DIGISTD	
WAVE form Registration Number (hex):	0x0015
Codec ID in the IANA Namespace:	audio/vnd.wave;codec=15
WAVE form wFormatTag ID:	WAVE_FORMAT_DIGISTD
Contact:	
DSP Solutions, Inc	
2464 Embarcadero Way	
Palo Alto, California 94303 USA	
415-494-8086	
A.15 DSP Solution's DIGIFIX	
WAVE form Registration Number (hex):	0x0016
Codec ID in the IANA Namespace:	audio/vnd.wave;codec=16
WAVE form wFormatTag ID:	WAVE_FORMAT_DIGIFIX
Contact:	
DSP Solutions, Inc	
2464 Embarcadero Way	
Palo Alto, California 94303 USA	
415-494-8086	
A.16 Dialogic OKI ADPCM	
WAVE form Registration Number (hex):	0x0017

Codec ID in the IANA Namespace: audio/vnd.wave;codec=17
WAVE form wFormatTag ID: WAVE_FORMAT_DIALOGIC_OKI_ADPCM
WAVEFORMAT use: for OKI ADPCM chips or firmware

Contact:

Dialogic Corporation
300 Littleton Road
Parsippany, NJ 07054 USA
201-334-1268

A.17 MediaVision ADPCM

WAVE form Registration Number (hex): 0x0018
Codec ID in the IANA Namespace: audio/vnd.wave;codec=18
WAVE form wFormatTag ID: WAVE_FORMAT_MEDIAVISION_ADPCM
WAVEFORMAT Name: ADPCM for Jazz 16 chip set

Contact:

Alex Cheng
Media Vision, Inc
California USA

A.18 HP CU

WAVE form Registration Number (hex): 0x0019
Codec ID in the IANA Namespace: audio/vnd.wave;codec=19
WAVE form wFormatTag ID: WAVE_FORMAT_CU_CODEC

Contact:

Cliff Chiang
Telephone: 65-3747005
Hewlett-Packard Company
452 Alexandra Road
Singapore 119961 Singapore

A.19 Yamaha ADPCM

WAVE form Registration Number (hex): 0x0020
Codec ID in the IANA Namespace: audio/vnd.wave;codec=20
WAVE form wFormatTag ID: WAVE_FORMAT_YAMAHA_ADPCM

Contact:

Yamaha Corporation of America
Systems Technology Division
981 Ridder Park Drive
San Jose, California 95131 USA
408-437-3133

A.20 Speech Compression's Sonarc

WAVE form Registration Number (hex): 0x0021

Codec ID in the IANA Namespace: audio/vnd.wave;codec=21
WAVE form wFormatTag ID: WAVE_FORMAT_SONARC
Contact:
Speech Compression
A.21 DSP Group's True Speech
WAVE form Registration Number (hex): 0x0022
Codec ID in the IANA Namespace: audio/vnd.wave;codec=22
WAVE form wFormatTag ID: WAVE_FORMAT_DSPGROUP_TRUESPEECH
Contact:
DSP Group, Inc
2464 Embarcadero Way
Palo Alto, California 94303 USA
415-494-8086
A.22 Echo Speech's EchoSC1
WAVE form Registration Number (hex): 0x0023
Codec ID in the IANA Namespace: audio/vnd.wave;codec=23
WAVE form wFormatTag ID: WAVE_FORMAT_ECHOSC1
Contact:
Billy Brackenridge
billy@isi.edu
Echo Speech Corporation
6460 Via Real
Carpinteria, California 93013 USA
805-684-4593
A.23 Audiofile AF36
WAVE form Registration Number (hex): 0x0024
Codec ID in the IANA Namespace: audio/vnd.wave;codec=24
WAVE form wFormatTag ID: WAVE_FORMAT_AUDIOFILE_AF36
Contact:
Alan Miller
617-271-0900
Virtual Music, Inc.
19 Crosby Drive
Bedford, MA 01730-1419 USA
A.24 APTX
WAVE form Registration Number (hex): 0x0025
Codec ID in the IANA Namespace: audio/vnd.wave;codec=25
WAVE form wFormatTag ID: WAVE_FORMAT_APTX
Contact:

Calypto Software
Audio Processing Technology
Edgewater Road
Belfast, Northern Ireland
44-232-371110

A.25 AudioFile AF10

WAVE form Registration Number (hex): 0x0026
Codec ID in the IANA Namespace: audio/vnd.wave;codec=26
WAVE form wFormatTag ID: WAVE_FORMAT_AUDIOFILE_AF10

Contact:

Alan Miller
617-271-0900
Virtual Music, Inc.
19 Crosby Drive
Bedford, MA 01730-1419 USA

A.26 Prosody 1612

WAVE form Registration Number (hex): 0x0027
Codec ID in the IANA Namespace: audio/vnd.wave;codec=27
WAVE form wFormatTag ID: WAVE_FORMAT_PROSODY_1612
Additional Information: Prosody CTI Speech Card

Contact:

Phil Cambridge
Phil.Cambridge@aculab.com
Aculab plc
Lakeside, Bramley Road
Mount Farm, Milton Keynes MK1 1PT UK
+44 1908 273800

A.27 LRC

WAVE form Registration Number (hex): 0x0028
Codec ID in the IANA Namespace: audio/vnd.wave;codec=28
WAVE form wFormatTag ID: WAVE_FORMAT_LRC

Contact:

Patrick Wassmer
pwassmer@merging.com
+41 21 931 50 11
Merging Technologies S.A.
Le Verney, E
Puidoux, Switzerland CH-1604

A.28 Dolby AC2

WAVE form Registration Number (hex): 0x0030
Codec ID in the IANA Namespace: audio/vnd.wave;codec=30
WAVE form wFormatTag ID: WAVE_FORMAT_DOLBY_AC2
Contact:
Dolby Laboratories
100 Portrero Avenue
San Francisco, California 94103-4813 USA
415-558-0200
A.29 GSM610
WAVE form Registration Number (hex): 0x0031
Codec ID in the IANA Namespace: audio/vnd.wave;codec=31
WAVE form wFormatTag ID: WAVE_FORMAT_GSM610
Contact:
Terri Hendry, 425-936-2069
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399 USA
A.30 MSNAudio
WAVE form Registration Number (hex): 0x0032
Codec ID in the IANA Namespace: audio/vnd.wave;codec=32
WAVE form wFormatTag ID: WAVE_FORMAT_MSNAUDIO
WAVEFORMAT Name: Microsoft MSN Audio Codec
Contact:
Terri Hendry, 425-936-2069
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399 USA
A.31 Antex ADPCME
WAVE form Registration Number (hex): 0x0033
Codec ID in the IANA Namespace: audio/vnd.wave;codec=33
WAVE form wFormatTag ID: WAVE_FORMAT_ANTEX_ADPCME
Contact:
Bob Bauman
Antex Electronics Corporation
3184-H Airway Ave.
Costa Mesa, California 92627 USA
310-532-3092
A.32 Control Res VQLPC
WAVE form Registration Number (hex): 0x0034

Codec ID in the IANA Namespace:	audio/vnd.wave;codec=34
WAVE form wFormatTag ID:	WAVE_FORMAT_CONTROL_RES_VQVPC
Contact:	
Charles Larson	
Control Resources Limited	
PO Box 8694	
Roland Heights, California 91748 USA	
818-912-5722	
A.33 Digireal	
WAVE form Registration Number (hex):	0x0035
Codec ID in the IANA Namespace:	audio/vnd.wave;codec=35
WAVE form wFormatTag ID:	WAVE_FORMAT_DIGIREAL
Contact:	
DSP Solutions, Inc	
2464 Embarcadero Way	
Palo Alto, California 94303 USA	
415-494-8086	
A.34 DigiADPCM	
WAVE form Registration Number (hex):	0x0036
Codec ID in the IANA Namespace:	audio/vnd.wave;codec=36
WAVE form wFormatTag ID:	WAVE_FORMAT_DIGIADPCM
Contact:	
DSP Solutions, Inc	
2464 Embarcadero Way	
Palo Alto, California 94303 USA	
415-494-8086	
A.35 Control Res CR10	
WAVE form Registration Number (hex):	0x0037
Codec ID in the IANA Namespace:	audio/vnd.wave;codec=37
WAVE form wFormatTag ID:	WAVE_FORMAT_CONTROL_RES_CR10
Contact:	
Charles Larson	
Control Resources Limited	
PO Box 8694	
Roland Heights, California 91748 USA	
818-912-5722	
A.36 NMS VBXADPCM	
WAVE form Registration Number (hex):	0x0038
Codec ID in the IANA Namespace:	audio/vnd.wave;codec=38

WAVE form wFormatTag ID: WAVE_FORMAT_NMS_VBXADPCM
Contact:
Joel Feldman, Steve Mors
Natural MicroSystems
A.37 Roland RDAC
WAVE form Registration Number (hex): 0x0039
Codec ID in the IANA Namespace: audio/vnd.wave;codec=39
WAVE form wFormatTag ID: WAVE_FORMAT_ROLAND_RDAC
WAVEFORMAT Name: Roland RDAC Proprietary format
Contact:
Takera Tanigawa
email: tanigawa@roland.co.jp
001-81-6-682-4584
A.38 EchoSC3
WAVE form Registration Number (hex): 0x003A
Codec ID in the IANA Namespace: audio/vnd.wave;codec=3A
WAVE form wFormatTag ID: WAVE_FORMAT_ECHOSC3
WAVEFORMAT Description: Proprietary compressed format
Contact:
Billy Brackenridge
billy@isi.edu
Echo Speech Corporation
6460 Via Real
Carpinteria, California 93013 USA
805-684-4593
A.39 Rockwell ADPCM
WAVE form Registration Number (hex): 0x003B
Codec ID in the IANA Namespace: audio/vnd.wave;codec=3B
WAVE form wFormatTag ID: WAVE_FORMAT_ROCKWELL_ADPCM
WAVEFORMAT Name: Rockwell ADPCM
Contact:
Rockwell International
Digital Communications Division
4311 Jamboree Rd.
PO Box C
Newport Beach, California 92658-8902 USA
714-833-4600
A.40 Rockwell Digit LK
WAVE form Registration Number (hex): 0x003C

Codec ID in the IANA Namespace: audio/vnd.wave;codec=3C
WAVE form wFormatTag ID: WAVE_FORMAT_ROCKWELL_DIGITALK
WAVEFORMAT Name: Rockwell DIGITALK
Contact:
Rockwell International
Digital Communications Division
4311 Jamboree Rd.
PO Box C
Newport Beach, California 92658-8902 USA
714-833-4600
A.41 Xebec
WAVE form Registration Number (hex): 0x003D
Codec ID in the IANA Namespace: audio/vnd.wave;codec=3D
WAVE form wFormatTag ID: WAVE_FORMAT_XEBEC
Additional Information: proprietary compression
Contact:
David Emberton
44-453-835482
Xebec Multimedia Solutions Limited
Smith House
1-3 George Street
Nailsworth, Gloucestershire, England GL6 OAG
A.42 Antex Electronics G.721
WAVE form Registration Number (hex): 0x0040
Codec ID in the IANA Namespace: audio/vnd.wave;codec=40
WAVE form wFormatTag ID: WAVE_FORMAT_G721_ADPCM
Contact:
Bob Bauman
310-532-3092
Antex Electronics Coporation
3184-H Airway Ave.
Costa Mesa, California 92627 USA
A.43 G.728 CELP
WAVE form Registration Number (hex): 0x0041
Codec ID in the IANA Namespace: audio/vnd.wave;codec=41
WAVE form wFormatTag ID: WAVE_FORMAT_G728_CELP
Contact:
Bob Bauman
310-532-3092

Antex Electronics Coporation
3184-H Airway Ave.
Costa Mesa, California 92627 USA
A.44 MSG723

WAVE form Registration Number (hex): 0x0042
Codec ID in the IANA Namespace: audio/vnd.wave;codec=42
WAVE form wFormatTag ID: WAVE_FORMAT_MSG723

Contact:
Terri Hendry, 425-936-2069
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399 USA

A.45 MPEG
WAVE form Registration Number (hex): 0x0050
Codec ID in the IANA Namespace: audio/vnd.wave;codec=50
WAVE form wFormatTag ID: WAVE_FORMAT_MPEG

Contact:
Terri Hendry, 425-936-2069
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399 USA

A.46 RT24
WAVE form Registration Number (hex): 0x0052
Codec ID in the IANA Namespace: audio/vnd.wave;codec=52
WAVE form wFormatTag ID: WAVE_FORMAT_RT24

Additional Information: This ACM codec is an alternative codec ID to refer to the Voxware Metavoice codec (Codec ID 0x0074). Only the Voxware reference should be used in the general case.

Contact:
Alexander V. Sokolsky
717-730-9501
InSoft, Inc.
4718 Old Gettysburg Rd
Suite 307
Mechanicsburg, PA 17055-4378 USA

A.47 PAC
WAVE form Registration Number (hex): 0x0053
Codec ID in the IANA Namespace: audio/vnd.wave;codec=53
WAVE form wFormatTag ID: WAVE_FORMAT_PAC

Contact:

Alexander V. Sokolsky
717-730-9501
InSoft, Inc.
4718 Old Gettysburg Rd
Suite 307
Mechanicsburg, PA 17055-4378 USA

A.48 MPEG Layer 3

WAVE form Registration Number (hex): 0x0055
Codec ID in the IANA Namespace: audio/vnd.wave;codec=55
WAVE form wFormatTag ID: WAVE_FORMAT_MPEGLAYER3
Additional Information: ISO/MPEG Layer3 Format Tag

Contact:

Tomislav Gracanac
(408) 576-1361
AT&T Labs, Inc.
2665 North First Street
San Jose, California 95134 USA

A.49 Lucent G.723

WAVE form Registration Number (hex): 0x0059
Codec ID in the IANA Namespace: audio/vnd.wave;codec=59
WAVE form wFormatTag ID: WAVE_FORMAT_LUCENT_G723

Contact:

Ray Jones
(raykj@lucent.com)
Lucent Technologies

A.50 Cirrus

WAVE form Registration Number (hex): 0x0060
Codec ID in the IANA Namespace: audio/vnd.wave;codec=60
WAVE form wFormatTag ID: WAVE_FORMAT_CIRRUS

Contact:

Mr Scott MacDonald
512 442-7555
Cirrus Logic (USA)

A.51 ESPCM

WAVE form Registration Number (hex): 0x0061
Codec ID in the IANA Namespace: audio/vnd.wave;codec=61
WAVE form wFormatTag ID: WAVE_FORMAT_ESPCM

Contact:

Paul Sung
510-226-1088
ESS Technology
46107 Landing Parkway
Fremont, California 94538 USA

A.52 Voxware

WAVE form Registration Number (hex): 0x0062
Codec ID in the IANA Namespace: audio/vnd.wave;codec=62
WAVE form wFormatTag ID: WAVE_FORMAT_VOXWARE
Additional Information: This format is now obsolete

Contact:

Lee Stewart
rover@pipeline.com or compuserve 75570,3525 or lees@voxware.com

Voxware Inc

172 Tamarack Circle
Skillman, NJ 08558 USA

A.53 Canopus Atrac

WAVE form Registration Number (hex): 0x0063
Codec ID in the IANA Namespace: audio/vnd.wave;codec=63
WAVE form wFormatTag ID: WAVE_FORMAT_CANOPUS_ATRAC
Additional Information: ATRACWAVEFORMAT

Contact:

Masayoshi Araki
m-araki@canopus.co.jp
81-78-992-7812

Canopus, Co., Ltd.

Kobe Hi-Tech Park
1-2-2 Murotani, Nishi-ku
Kobe, Hyogo 651-22 Japan

A.54 G.726 ADPCM

WAVE form Registration Number (hex): 0x0064
Codec ID in the IANA Namespace: audio/vnd.wave;codec=64
WAVE form wFormatTag ID: WAVE_FORMAT_G726_ADPCM

Contact:

Jean-Claude Anaya
100433.3121@compuserve.com
(33) 57-26-99-24

APICOM

218, Avenue du Haut-Leveque

Pessac France 33605
A.55 G.722 ADPCM
WAVE form Registration Number (hex): 0x0065
Codec ID in the IANA Namespace: audio/vnd.wave;codec=65
WAVE form wFormatTag ID: WAVE_FORMAT_G722_ADPCM
Contact:
Jean-Claude Anaya
100433.3121@compuserve.com
(33) 57-26-99-24
APICOM
218, Avenue du Haut-Leveque
Pessac France 33605
A.56 DSAT
WAVE form Registration Number (hex): 0x0066
Codec ID in the IANA Namespace: audio/vnd.wave;codec=66
WAVE form wFormatTag ID: WAVE_FORMAT_DSAT
Contact:
Terri Hendry
425-936-2069
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399 USA
A.57 DSAT Display
WAVE form Registration Number (hex): 0x0067
Codec ID in the IANA Namespace: audio/vnd.wave;codec=67
WAVE form wFormatTag ID: WAVE_FORMAT_DSAT_DISPLAY
Contact:
Terri Hendry
425-936-2069
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399 USA
A.58 Voxware Byte Aligned
WAVE form Registration Number (hex): 0x0069
Codec ID in the IANA Namespace: audio/vnd.wave;codec=69
WAVE form wFormatTag ID:n WAVE_FORMAT_VOXWARE_BYTE_ALIGNED
Additional Information: This format is now obsolete
Contact:
Lee Stewart

rover@pipeline.com or compuserve 75570,3525 or lees@voxware.com
Voxware Inc

172 Tamarack Circle
Skillman, NJ 08558 USA

A.59 Voxware AC8

WAVE form Registration Number (hex): 0x0070
Codec ID in the IANA Namespace: audio/vnd.wave;codec=70
WAVE form wFormatTag ID: WAVE_FORMAT_VOXWARE_AC8
Additional Information: This format ID is now obsolete

Contact:

Lee Stewart
lees@voxware.com

Voxware Inc.
172 Tamarack Circle
Skillman, NJ 08558 USA

A.60 Voxware AC10

WAVE form Registration Number (hex): 0x0071
Codec ID in the IANA Namespace: audio/vnd.wave;codec=71
WAVE form wFormatTag ID: WAVE_FORMAT_VOXWARE_AC10
Additional Information: This format ID is now obsolete

Contact:

Lee Stewart
lees@voxware.com

Voxware Inc.
172 Tamarack Circle
Skillman, NJ 08558 USA

A.61 Voxware AC16

WAVE form Registration Number (hex): 0x0072
Codec ID in the IANA Namespace: audio/vnd.wave;codec=72
WAVE form wFormatTag ID: WAVE_FORMAT_VOXWARE_AC16
Additional Information: This format ID is now obsolete

Contact:

Lee Stewart
lees@voxware.com

Voxware Inc.
172 Tamarack Circle
Skillman, NJ 08558 USA

A.62 Voxware AC20

WAVE form Registration Number (hex): 0x0073

Codec ID in the IANA Namespace: audio/vnd.wave;codec=73
WAVE form wFormatTag ID: WAVE_FORMAT_VOXWARE_AC20
Additional Information: This format ID is now obsolete
Contact:
Lee Stewart
lees@voxware.com
Voxware Inc.
172 Tamarack Circle
Skillman, NJ 08558 USA
A.63 Voxware MetaVoice
WAVE form Registration Number (hex): 0x0074
Codec ID in the IANA Namespace: audio/vnd.wave;codec=74
WAVE form wFormatTag ID: WAVE_FORMAT_VOXWARE_RT24
Additional Information: file and stream oriented
Contact:
Lee Stewart
lees@voxware.com
Voxware Inc.
172 Tamarack Circle
Skillman, NJ 08558 USA
A.64 Voxware MetaSound
WAVE form Registration Number (hex): 0x0075
Codec ID in the IANA Namespace: audio/vnd.wave;codec=75
WAVE form wFormatTag ID: WAVE_FORMAT_VOXWARE_RT29
Additional Information: file and stream oriented
Contact:
Lee Stewart
lees@voxware.com
Voxware Inc.
172 Tamarack Circle
Skillman, NJ 08558 USA
A.65 Voxware RT29HW
WAVE form Registration Number (hex): 0x0076
Codec ID in the IANA Namespace: audio/vnd.wave;codec=76
WAVE form wFormatTag ID: WAVE_FORMAT_VOXWARE_RT29HW
Additional Information: This format ID is now obsolete
Contact:
Lee Stewart
lees@voxware.com

Voxware Inc.
172 Tamarack Circle
Skillman, NJ 08558 USA
A.66 Voxware VR12
WAVE form Registration Number (hex): 0x0077
Codec ID in the IANA Namespace: audio/vnd.wave;codec=77
WAVE form wFormatTag ID: WAVE_FORMAT_VOXWARE_VR12
Additional Information: This format ID is now obsolete
Contact:
Lee Stewart
lees@voxware.com
Voxware Inc.
172 Tamarack Circle
Skillman, NJ 08558 USA
A.67 Voxware VR18
WAVE form Registration Number (hex): 0x0078
Codec ID in the IANA Namespace: audio/vnd.wave;codec=78
WAVE form wFormatTag ID: WAVE_FORMAT_VOXWARE_VR18
Additional Information: This format ID is now obsolete
Contact:
Lee Stewart
lees@voxware.com
Voxware Inc.
172 Tamarack Circle
Skillman, NJ 08558 USA
A.68 Voxware TQ40
WAVE form Registration Number (hex): 0x0079
Codec ID in the IANA Namespace: audio/vnd.wave;codec=79
WAVE form wFormatTag ID: WAVE_FORMAT_VOXWARE_TQ40
Additional Information: This format ID is now obsolete
Contact:
Lee Stewart
lees@voxware.com
Voxware Inc.
172 Tamarack Circle
Skillman, NJ 08558 USA
A.69 Softsound
WAVE form Registration Number (hex): 0x0080
Codec ID in the IANA Namespace: audio/vnd.wave;codec=80

WAVE form wFormatTag ID: WAVE_FORMAT_SOFTSOUND
Contact:
AJ Robinson
44-1727-847949
Softsound, Ltd.
12 St. Stephens Avenue
St. Albans, Herts, UK AL3 4AD
A.70 Voxware TQ60
WAVE form Registration Number (hex): 0x0081
Codec ID in the IANA Namespace: audio/vnd.wave;codec=81
WAVE form wFormatTag ID: WAVE_FORMAT_VOXWARE_TQ60
Additional Information: This format ID is now obsolete
Contact:
Lee Stewart
lees@voxware.com
Voxware Inc.
172 Tamarack Circle
Skillman, NJ 08558 USA
A.71 MSRT24
WAVE form Registration Number (hex): 0x0082
Codec ID in the IANA Namespace: audio/vnd.wave;codec=82
WAVE form wFormatTag ID: WAVE_FORMAT_MSRT24
Additional Information: This ACM codec is an alternative codec
ID to refer to the Voxware Metavoices codec (Codec ID 0x0074). Only the
Voxware reference should be used in the general case.
Contact:
Terri Hendry
425-936-2069
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399 USA
A.72 G.729A
WAVE form Registration Number (hex): 0x0083
Codec ID in the IANA Namespace: audio/vnd.wave;codec=83
WAVE form wFormatTag ID: WAVE_FORMAT_G729A
Contact:
AT&T Laboratories
A.73 MVI MV12
WAVE form Registration Number (hex): 0x0084

Codec ID in the IANA Namespace: audio/vnd.wave;codec=84
WAVE form wFormatTag ID: WAVE_FORMAT_MVI_MV12
Contact:
David R. Whipple
whipple@mail.webtek.com
Motion Pixels
7802 North 132 East Court
Owasso, OK 74055 USA
(918) 272-5328
A.74 DF G.726
WAVE form Registration Number (hex): 0x0085
Codec ID in the IANA Namespace: audio/vnd.wave;codec=85
WAVE form wFormatTag ID: WAVE_FORMAT_DF_G726
Contact:
Jarno van Rooyen
Jarno.VanRooyen@DataVoice.co.za
DataFusion Systems (Pty) (Ltd)
PO Box 582
Stellenbosch Stellenbosch South Africa
27 21 888 2000
A.75 DF GSM610
WAVE form Registration Number (hex): 0x0086
Codec ID in the IANA Namespace: audio/vnd.wave;codec=86
WAVE form wFormatTag ID: WAVE_FORMAT_DF_GSM610
Contact:
Jarno van Rooyen
Jarno.VanRooyen@DataVoice.co.za
DataFusion Systems (Pty) (Ltd)
PO Box 582
Stellenbosch 7600 South Africa
27 21 888 2000
A.76 ISIAudio
WAVE form Registration Number (hex): 0x0088
Codec ID in the IANA Namespace: audio/vnd.wave;codec=88
WAVE form wFormatTag ID: WAVE_FORMAT_ISIAUDIO
Contact:
Iterated Systems, Inc.
5550-a Peachtree Parkway
Suite 650

Norcross, GA 30092 USA

404-840-0633

A.77 Onlive

WAVE form Registration Number (hex):

0x0089

Codec ID in the IANA Namespace:

audio/vnd.wave;codec=89

WAVE form wFormatTag ID:

WAVE_FORMAT_ONLIVE

Contact:

Dr. Ajit L. Lalwani

ajit@onlive.com

(408) 617 - 3595

OnLive! Technologies, Inc.

1039 S. Mary Ave.

Sunnyvale, California 94087 USA

(408) 617-7000

A.78 SBC24

WAVE form Registration Number (hex):

0x0091

Codec ID in the IANA Namespace:

audio/vnd.wave;codec=91

WAVE form wFormatTag ID:

WAVE_FORMAT_SBC24

Contact:

Dieter Rencken

Dieter.W.Rencken@siemenscom.com

(408) 492-6539

Siemens Business Communications Systems

4900 Old Ironsides Drive

Santa Clara, California 95054 USA

(408) 492-2000

A.79 Dolby AC3 SPDIF

WAVE form Registration Number (hex):

0x0092

Codec ID in the IANA Namespace:

audio/vnd.wave;codec=92

WAVE form wFormatTag ID:

WAVE_FORMAT_DOLBY_AC3_SPDIF

Contact:

Monty Schmidt

Sonic Foundry

100 South Baldwin, Suite 204

Madison, WI 53703 USA

608-256-3133

A.80 ZyXEL ADPCM

WAVE form Registration Number (hex):

0x0097

Codec ID in the IANA Namespace:

audio/vnd.wave;codec=97

WAVE form wFormatTag ID: WAVE_FORMAT_ZYXEL_ADPCM
Contact:
Nasser Tarazi
nasser@ZyXEL.COM
714-693-0808 ext 206
ZyXEL Communications, Inc.
4920 E. La Palma Ave
Anaheim, California 92807 USA
714-693-0808
A.81 Philips LPCBB
WAVE form Registration Number (hex): 0x0098
Codec ID in the IANA Namespace: audio/vnd.wave;codec=98
WAVE form wFormatTag ID: WAVE_FORMAT_PHILIPS_LPCBB
Contact:
Kurt Kornmuller
Philips Speech Processing
Computerstrasse 6
Vienna A-1101 Austria
43 1 601 01
A.82 Packed
WAVE form Registration Number (hex): 0x0099
Codec ID in the IANA Namespace: audio/vnd.wave;codec=99
WAVE form wFormatTag ID: WAVE_FORMAT_PACKED
Contact:
Alex Ruegg
alex.ruegg@studer.ch
41-1-870-1252
Studer Professional Audio AG
Althardstrasse 30
Regensdorf, CH 8105
41-1-870-7252
A.83 Rhetorex ADPCM
WAVE form Registration Number (hex): 0x0100
Codec ID in the IANA Namespace: audio/vnd.wave;codec=100
WAVE form wFormatTag ID: WAVE_FORMAT_RHETOREX_ADPCM
Contact:
Roger Dang
roger.dang@octel.com
408-371-0881-x195

Rhetorex, Inc.
200 E Hacienda Ave
Campbell, California 95008 USA
A.84 BeCubed Software's IRAT
WAVE form Registration Number (hex): 0x0101
Codec ID in the IANA Namespace: audio/vnd.wave;codec=101
WAVE form wFormatTag ID: WAVE_FORMAT_IRAT
WAVEFORMAT name:
Contact:
William J. Locke
bill@becubed.com
BeCubed Software Inc.
1750 Marietta Hwy STE 240
Canton, GA 30114 USA
770-720-1077
A.85 Vivo G.723
WAVE form Registration Number (hex): 0x00111
Codec ID in the IANA Namespace: audio/vnd.wave;codec=111
WAVE form wFormatTag ID: WAVE_FORMAT_VIVO_G723
Contact:
Vivo Software
411 Waverley Oaks Road, Suite 313
Waltham, MA 02154 USA
(617) 899-8900
A.86 Vivo Siren
WAVE form Registration Number (hex): 0x0112
Codec ID in the IANA Namespace: audio/vnd.wave;codec=112
WAVE form wFormatTag ID: WAVE_FORMAT_VIVO_SIREN
Contact:
Vivo Software
411 Waverley Oaks Road, Suite 313
Waltham, MA 02154 USA
(617) 899-8900
A.87 Digital G.723
WAVE form Registration Number (hex): 0x0123
Codec ID in the IANA Namespace: audio/vnd.wave;codec=123
WAVE form wFormatTag ID: WAVE_FORMAT_DIGITAL_G723
Contact:
John Forecast

forecast@shell.lkg.dec.com
508-486-5264
Digital Equipment Corporation
146 Main Street
Maynard, MA 01754-2571 USA
1-800-DIGITAL

A.88 Creative ADPCM

WAVE form Registration Number (hex): 0x0200
Codec ID in the IANA Namespace: audio/vnd.wave;codec=200
WAVE form wFormatTag ID: WAVE_FORMAT_CREATIVE_ADPCM

Contact:

Peter Ridge
408-428-2366
Creative Labs, Inc
California, USA

A.89 Creative FastSpeech8

WAVE form Registration Number (hex): 0x0202
Codec ID in the IANA Namespace: audio/vnd.wave;codec=202
WAVE form wFormatTag ID: WAVE_FORMAT_CREATIVE_FASTSPEECH8

Contact:

Peter Ridge
408-428-2366
Creative Labs, Inc
California, USA

A.90 Creative FastSpeech10

WAVE form Registration Number (hex): 0x0203
Codec ID in the IANA Namespace: audio/vnd.wave;codec=203
WAVE form wFormatTag ID: WAVE_FORMAT_CREATIVE_FASTSPEECH10

Contact:

Peter Ridge
408-428-2366
Creative Labs, Inc
California, USA

A.91 Quarterdeck

WAVE form Registration Number (hex): 0x0220
Codec ID in the IANA Namespace: audio/vnd.wave;codec=220
WAVE form wFormatTag ID: WAVE_FORMAT_QUARTERDECK

Contact:

Eugene Olsen

310-309-3700

Quarterdeck Corporation
13160 Mindanao Way FL 3
Marina del Rey, California 90292-9705 USA

A.92 FM Towns Snd

WAVE form Registration Number (hex): 0x0300
Codec ID in the IANA Namespace: audio/vnd.wave;codec=300
WAVE form wFormatTag ID: WAVE_FORMAT_FM_TOWNS_SND

Contact:

Fujitsu Corporation

A.93 BTV Digital

WAVE form Registration Number (hex): 0x0400
Codec ID in the IANA Namespace: audio/vnd.wave;codec=400
WAVE form wFormatTag ID: WAVE_FORMAT_BTV_DIGITAL
Additional Information: Brooktree digital audio format

Contact:

Dave Wilson

512-502-1725

Brooktree Corporation

9868 Scranton Road

San Diego, California 92121-3707 USA

1-800-228-2777

A.94 VME VMPCM

WAVE form Registration Number (hex): 0x0680
Codec ID in the IANA Namespace: audio/vnd.wave;codec=680
WAVE form wFormatTag ID: WAVE_FORMAT_VME_VMPCM

Contact:

Tomislav Grcanac

(408) 576-1361

AT&T Labs, Inc.

2665 North First Street

San Jose, California 95134 USA

A.95 OLIGSM

WAVE form Registration Number (hex): 0x1000
Codec ID in the IANA Namespace: audio/vnd.wave;codec=1000
WAVE form wFormatTag ID: WAVE_FORMAT_OLIGSM

Contact:

Harry Sinn

Ing C. Olivetti & C., S.p.A.

Via G. Jervis 77
Via Montalenghe 8 Scarmagno
Ivrea (To) 10015 Italy
39-125-527056
A.96 OLIADPCM
WAVE form Registration Number (hex): 0x1001
Codec ID in the IANA Namespace: audio/vnd.wave;codec=1001
WAVE form wFormatTag ID: WAVE_FORMAT_OLIADPCM
Contact:
Harry Sinn
Ing C. Olivetti & C., S.p.A.
Via G. Jervis 77
Via Montalenghe 8 Scarmagno
Ivrea (To) 10015 Italy
39-125-527056
A.97 OLICELP
WAVE form Registration Number (hex): 0x1002
Codec ID in the IANA Namespace: audio/vnd.wave;codec=1002
WAVE form wFormatTag ID: WAVE_FORMAT_OLICELP
Contact:
Harry Sinn
Ing C. Olivetti & C., S.p.A.
Via G. Jervis 77
Via Montalenghe 8 Scarmagno
Ivrea (To) 10015 Italy
39-125-527056
A.98 OLISBC
WAVE form Registration Number (hex): 0x1003
Codec ID in the IANA Namespace: audio/vnd.wave;codec=1003
WAVE form wFormatTag ID: WAVE_FORMAT_OLISBC
Contact:
Harry Sinn
Ing C. Olivetti & C., S.p.A.
Via G. Jervis 77
Via Montalenghe 8 Scarmagno
Ivrea (To) 10015 Italy
39-125-527056
A.99 OLIOPR
WAVE form Registration Number (hex): 0x1004

Codec ID in the IANA Namespace: audio/vnd.wave;codec=1004
WAVE form wFormatTag ID: WAVE_FORMAT_OLIOPR
Contact:
Harry Sinn
Ing C. Olivetti & C., S.p.A.
Via G. Jervis 77
Via Montalenghe 8 Scarmagno
Ivrea (To) 10015 Italy
39-125-527056
A.100 LH Codec
WAVE form Registration Number (hex): 0x1100
Codec ID in the IANA Namespace: audio/vnd.wave;codec=1100
WAVE form wFormatTag ID: WAVE_FORMAT_LH_CODEC
Contact:
David Ray
Lernout & Hauspie
20 Mall Road
Burlington, MA 01803 USA
A.101 Norris
WAVE form Registration Number (hex): 0x1400
Codec ID in the IANA Namespace: audio/vnd.wave;codec=1400
WAVE form wFormatTag ID: WAVE_FORMAT_NORRIS
Contact:
Rick Davis
Norris Communications, Inc
12725 Stowe Drive
Poway, California 92064 USA
619-679-1504
A.102 ISIAudio
WAVE form Registration Number (hex): 0x1401
Codec ID in the IANA Namespace: audio/vnd.wave;codec=1401
WAVE form wFormatTag ID: WAVE_FORMAT_ISIAUDIO
Contact:
Tomislav Grcanac
(408) 576-1361
AT&T Labs, Inc.
2665 North First Street
San Jose, California 95134 USA
A.103 Soundspace Music Compression

WAVE form Registration Number (hex): 0x1500
Codec ID in the IANA Namespace: audio/vnd.wave;codec=1500
WAVE form wFormatTag ID: WAVE_FORMAT_SOUNDSPACE_MUSICOMPRESS

Contact:

Tomislav Grcanac
(408) 576-1361
AT&T Labs, Inc.
2665 North First Street
San Jose, California 95134 USA
A.104 DVM

WAVE form Registration Number (hex): 0x2000
Codec ID in the IANA Namespace: audio/vnd.wave;codec=2000
WAVE form wFormatTag ID: WAVE_FORMAT_DVM

Contact:

Martin Regen
FAST Multimedia AG
Lansbergerstrasse 76
Munchen 80339 Germany
49-89-50206-0

Section B - Video Codecs from the Microsoft AVI Registry

B.1 Intel RDX

Compression Code or FourCC Codec ID: ANIM
Codec ID in the IANA Namespace: video/vnd.avi;codec=ANIM
Description: Intel RDX

Contact:

Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

B.2 AuraVision Aura 2

Compression Code or FourCC Codec ID: AUR2
Codec ID in the IANA Namespace: video/vnd.avi;codec=AUR2
Description: AuraVision Aura 2: YUV 422
Bit Depth: 8

Contact:

Steve Gibson
510-440-7180
Fast Multimedia
47865 Fremont Blvd

Fremont, California 94538 USA

B.3 AuraVision Aura 1

Compression Code or FourCC Codec ID:

Codec ID in the IANA Namespace:

Description:

Bit Depth:

Contact:

Steve Gibson

510-440-7180

Fast Multimedia

47865 Fremont Blvd

Fremont, California 94538 USA

B.4 Brooktree MediaStream

Compression Code or FourCC Codec ID:

Codec ID in the IANA Namespace:

Description:

Contact:

Dave Wilson

512-502-1725

Brooktree Corporation

9868 Scranton Road

San Diego, California 92121-3707 USA

B.5 Brooktree Composite Video

Compression Code or FourCC Codec ID:

Codec ID in the IANA Namespace:

Description:

Contact:

Dave Wilson

512-502-1725

Brooktree Corporation

9868 Scranton Road

San Diego, California 92121-3707 USA

B.6 Intel YUV12

Compression Code or FourCC Codec ID:

Codec ID in the IANA Namespace:

Description:

Contact:

Intel Corporation

5200 NE Elam Young Parkway

AURA

video/vnd.avi;codec=AURA

AuraVision Aura 1: YUV 411

6

BT20

video/vnd.avi;codec=BT20

Brooktree MediaStream

BTCV

video/vnd.avi;codec=BTCV

Brooktree Composite Video

CC12

video/vnd.avi;codec=CC12

AuraVision Aura 2: Intel YUV12

Hillsboro, Oregon 97124 USA
503-696-2448

B.7 Canopus DV

Compression Code or FourCC Codec ID: CDVC
Codec ID in the IANA Namespace: video/vnd.avi;codec=CDVC
Description: Canopus DV

Contact:

Masayoshi Araki
81-78-992-7812
m-araki@canopus.co.jp
Canopus, Co., Ltd.

Kobe Hi-Tech Park
1-2-2 Murotani, Nishi-ku
Kobe, Hyogo 651-22 Japan

B.8 Winnov Caviara Cham

Compression Code or FourCC Codec ID: CHAM
Codec ID in the IANA Namespace: video/vnd.avi;codec=CHAM
Description: Winnov Caviara Cham

Contact:

Winnov, Inc.
1230 Oakmead Parkway, Suite 312
Sunnyvale, California 94086 USA
408-733-7419

B.9 Proprietary YUV 4 pixels

Compression Code or FourCC Codec ID: CLJR
Codec ID in the IANA Namespace: video/vnd.avi;codec=CLJR
Description: Proprietary YUV 4 pixels/DWORD

Contact:

Mr Scott MacDonald
512 442-7555
Cirrus Logic

B.10 Common Data Format in Printing

Compression Code or FourCC Codec ID: CMYK
Codec ID in the IANA Namespace: video/vnd.avi;codec=CMYK
Description: Common Data Format in Printing
Bit Depth: 32bits (8 per component)

Contact:

Colorgraph (UK)
2 Mars House, Calleva Park

Aldermaston, Reading, Berkshire RG7 8LB UK
+44-118-9819435

B.11 Weitek 4:2:0 YUV Planar
Compression Code or FourCC Codec ID: CPLA
Codec ID in the IANA Namespace: video/vnd.avi;codec=CPLA
Description: Weitek 4:2:0 YUV Planar
Contact:

Weitek
408-522-7541

B.12 Cinepak by Supermac
Compression Code or FourCC Codec ID: CVID
Codec ID in the IANA Namespace: video/vnd.avi;codec=CVID
Description: Cinepak by Supermac
Contact:

Lou Doctor
Supermac

B.13 Microsoft Color WLT DIB
Compression Code or FourCC Codec ID: CWLT
Codec ID in the IANA Namespace: video/vnd.avi;codec=CWLT
Description: Microsoft Color WLT DIB
Bit Depth: 24
Contact:

Terri Hendry
425-936-2069
Microsoft Corporation

One Microsoft Way
Redmond, WA 98052-6399 USA

B.14 Creative Labs YUV
Compression Code or FourCC Codec ID: CYUV
Codec ID in the IANA Namespace: video/vnd.avi;codec=CYUV
Description: Creative Labs YUV
Contact:

Peter Ridge
408-428-2366
Creative Labs, Inc

California, USA

B.15 H.261
Compression Code or FourCC Codec ID: D261
Codec ID in the IANA Namespace: video/vnd.avi;codec=D261

Description:	H.261 Video Format
Bit Depth:	24
Contact:	
John Forecast	
forecast@shell.lkg.dec.com	
508-486-5264	
Digital Equipment Corporation	
146 Main Street	
Maynard, MA 01754-2571 USA	
1-800-DIGITAL	
B.16 H.263	
Compression Code or FourCC Codec ID:	D263
Codec ID in the IANA Namespace:	video/vnd.avi;codec=D263
Description:	H.263 Video Format
Bit Depth:	24
Contact:	
John Forecast	
forecast@shell.lkg.dec.com	
508-486-5264	
Digital Equipment Corporation	
146 Main Street	
Maynard, MA 01754-2571 USA	
1-800-DIGITAL	
B.17 True Motion 1.0	
Compression Code or FourCC Codec ID:	DUCK
Codec ID in the IANA Namespace:	video/vnd.avi;codec=DUCK
Description:	TrueMotion 1.0
Contact:	
David Silver	
david@duck.com	
(212)941-2403	
The Duck Corporation	
375 Greenwich Street	
New York, NY 10013 USA	
(212) 941-2400	
http://www.duck.com/	
B.18 DVE-2 Videoconferencing	
Compression Code or FourCC Codec ID:	DVE2
Codec ID in the IANA Namespace:	video/vnd.avi;codec=DVE2

Description: DVE-2 Videoconferencing

Contact:

Alexander V. Sokolsky

InSoft, Inc.

4718 Old Gettysburg Rd, Suite 307

Mechanicsburg, PA 17055-4378 USA

717-730-9501

B.19 Field Encoded Motion JPEG

Compression Code or FourCC Codec ID: FLJP

Codec ID in the IANA Namespace: video/vnd.avi;codec=FLJP

Description: Field Encoded Motion JPEG With LSI

Bitstream Format

Contact:

Dale Weaver

weaverdm@dvision.com

312-714-1400 -2169

D-Vision Systems, Inc.

8755 W. Higgins, Second Floor

Chicago, IL 60631 USA

B.20 Fractal Video Frame

Compression Code or FourCC Codec ID: FVF1

Codec ID in the IANA Namespace: video/vnd.avi;codec=FVF1

Description: Fractal Video Frame

Contact:

Iterated Systems, Inc.

5550-a Peachtree Parkway, Suite 650

Norcross, GA 30092 USA

404-840-0633

B.21 Microsoft Greyscale WLT DIB

Compression Code or FourCC Codec ID: GWLT

Codec ID in the IANA Namespace: video/vnd.avi;codec=GWLT

Description: Microsoft Greyscale WLT DIB

Bit Depth: 8

Contact:

Terri Hendry

425-936-2069

Microsoft Corporation

One Microsoft Way

Redmond, WA 98052-6399 USA

B.22 H.260
Compression Code or FourCC Codec ID: H260
Codec ID in the IANA Namespace: video/vnd.avi;codec=H260
Description: H.260
Contact:
Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

B.23 H.261
Compression Code or FourCC Codec ID: H261
Codec ID in the IANA Namespace: video/vnd.avi;codec=H261
Description: H.261
Contact:
Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

B.24 H.262
Compression Code or FourCC Codec ID: H262
Codec ID in the IANA Namespace: video/vnd.avi;codec=H262
Description: H.262
Contact:
Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

B.25 H.263
Compression Code or FourCC Codec ID: H263
Codec ID in the IANA Namespace: video/vnd.avi;codec=H263
Description: H.263
Bit Depth: 12/pixel
Contact:
Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

B.26 H.264
Compression Code or FourCC Codec ID: H264

Codec ID in the IANA Namespace: video/vnd.avi;codec=H264
Description: H.264
Contact:
Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448
B.27 H.265
Compression Code or FourCC Codec ID: H265
Codec ID in the IANA Namespace: video/vnd.avi;codec=H265
Description: H.265
Contact:
Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448
B.28 H.266
Compression Code or FourCC Codec ID: H266
Codec ID in the IANA Namespace: video/vnd.avi;codec=H266
Description: H.266
Contact:
Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448
B.29 H.267
Compression Code or FourCC Codec ID: H267
Codec ID in the IANA Namespace: video/vnd.avi;codec=H267
Description: H.267
Contact:
Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448
B.30 H.268
Compression Code or FourCC Codec ID: H268
Codec ID in the IANA Namespace: video/vnd.avi;codec=H268
Description: H.268
Contact:

Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

B.31 H.260

Compression Code or FourCC Codec ID: H269
Codec ID in the IANA Namespace: video/vnd.avi;codec=H269
Description: H.269

Contact:

Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

B.32 I263

Compression Code or FourCC Codec ID: I263
Codec ID in the IANA Namespace: video/vnd.avi;codec=I263
Description: Intel I263

Contact:

Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

B.33 Intel Indeo 4

Compression Code or FourCC Codec ID: I420
Codec ID in the IANA Namespace: video/vnd.avi;codec=I420
Description: Intel Indeo 4

Contact:

Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

B.34 Intel RDX

Compression Code or FourCC Codec ID: IAN
Codec ID in the IANA Namespace: video/vnd.avi;codec=IAN
Description: Intel RDX

Contact:

Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA

503-696-2448

B.35 CellB Videoconferencing Codec

Compression Code or FourCC Codec ID:

ICLB

Codec ID in the IANA Namespace:

video/vnd.avi;codec=ICLB

Description:

CellB Videoconferencing Codec

Contact:

Alexander V. Sokolsky

InSoft, Inc.

4718 Old Gettysburg Rd, Suite 307

Mechanicsburg, PA 17055-4378 USA

717-730-9501

B.36 Intel Layered Video

Compression Code or FourCC Codec ID:

ILVC

Codec ID in the IANA Namespace:

video/vnd.avi;codec=ILVC

Description:

Intel Layered Video

Contact:

Intel Corporation

5200 NE Elam Young Parkway

Hillsboro, Oregon 97124 USA

503-696-2448

B.37 ITU-T H.263+

Compression Code or FourCC Codec ID:

ILVR

Codec ID in the IANA Namespace:

video/vnd.avi;codec=ILVR

Description:

nITU-T's H.263+ compression standard

Contact:

Intel Corporation

5200 NE Elam Young Parkway

Hillsboro, Oregon 97124 USA

503-696-2448

B.38 Intel YUV Uncompressed

Compression Code or FourCC Codec ID:

IRAW

Codec ID in the IANA Namespace:

video/vnd.avi;codec=IRAW

Description:

Intel YUV uncompressed

Contact:

Intel Corporation

5200 NE Elam Young Parkway

Hillsboro, Oregon 97124 USA

503-696-2448

B.39 Intel Indeo Video 3

Compression Code or FourCC Codec ID: IV30
Codec ID in the IANA Namespace: video/vnd.avi;codec=IV30
Description: Intel Indeo Video 3
Contact:
Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448
B.40 Intel Indeo Video 3.1
Compression Code or FourCC Codec ID: IV31
Codec ID in the IANA Namespace: video/vnd.avi;codec=IV31
Description: Intel Indeo Video 3.1
Contact:
Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448
B.41 Intel Indeo Video 3.2
Compression Code or FourCC Codec ID: IV32
Codec ID in the IANA Namespace: video/vnd.avi;codec=IV32
Description: Intel Indeo Video 3.2
Contact:
Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448
B.42 Intel Indeo Video 3.3
Compression Code or FourCC Codec ID: IV33
Codec ID in the IANA Namespace: video/vnd.avi;codec=IV33
Description: Intel Indeo Video 3.3
Contact:
Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448
B.43 Intel Indeo Video 3.4
Compression Code or FourCC Codec ID: IV34
Codec ID in the IANA Namespace: video/vnd.avi;codec=IV34
Description: Intel Indeo Video 3.4

Contact:

Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

B.44 Intel Indeo Video 3.5

Compression Code or FourCC Codec ID: IV35
Codec ID in the IANA Namespace: video/vnd.avi;codec=IV35
Description: Intel Indeo Video 3.5

Contact:

Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

B.45 Intel Indeo Video 3.6

Compression Code or FourCC Codec ID: IV36
Codec ID in the IANA Namespace: video/vnd.avi;codec=IV36
Description: Intel Indeo Video 3.6

Contact:

Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

B.46 Intel Indeo Video 3.7

Compression Code or FourCC Codec ID: IV37
Codec ID in the IANA Namespace: video/vnd.avi;codec=IV37
Description: Intel Indeo Video 3.7

Contact:

Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

B.47 Intel Indeo Video 3.8

Compression Code or FourCC Codec ID: IV38
Codec ID in the IANA Namespace: video/vnd.avi;codec=IV38
Description: Intel Indeo Video 3.8

Contact:

Intel Corporation
5200 NE Elam Young Parkway

Hillsboro, Oregon 97124 USA
503-696-2448

B.48 Intel Indeo Video 3.9

Compression Code or FourCC Codec ID: IV39
Codec ID in the IANA Namespace: video/vnd.avi;codec=IV39
Description: Intel Indeo Video 3.9

Contact:

Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

B.49 Intel Indeo Video 4.0

Compression Code or FourCC Codec ID: IV40
Codec ID in the IANA Namespace: video/vnd.avi;codec=IV40
Description: Intel Indeo Video 4.0

Contact:

Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

B.50 Intel Indeo Video 4.1

Compression Code or FourCC Codec ID: IV41
Codec ID in the IANA Namespace: video/vnd.avi;codec=IV41
Description: Intel Indeo Video 4.1

Contact:

Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

B.51 Intel Indeo Video 4.2

Compression Code or FourCC Codec ID: IV42
Codec ID in the IANA Namespace: video/vnd.avi;codec=IV42
Description: Intel Indeo Video 4.2

Contact:

Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

B.52 Intel Indeo Video 4.3

Compression Code or FourCC Codec ID: IV43
Codec ID in the IANA Namespace: video/vnd.avi;codec=IV43
Description: Intel Indeo Video 4.3
Contact:
Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448
B.53 Intel Indeo Video 4.4
Compression Code or FourCC Codec ID: IV44
Codec ID in the IANA Namespace: video/vnd.avi;codec=IV44
Description: Intel Indeo Video 4.4
Contact:
Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448
B.54 Intel Indeo Video 4.5
Compression Code or FourCC Codec ID: IV45
Codec ID in the IANA Namespace: video/vnd.avi;codec=IV45
Description: Intel Indeo Video 4.5
Contact:
Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448
B.55 Intel Indeo Video 4.6
Compression Code or FourCC Codec ID: IV46
Codec ID in the IANA Namespace: video/vnd.avi;codec=IV46
Description: Intel Indeo Video 4.6
Contact:
Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448
B.56 Intel Indeo Video 4.7
Compression Code or FourCC Codec ID: IV47
Codec ID in the IANA Namespace: video/vnd.avi;codec=IV47
Description: Intel Indeo Video 4.7

Contact:

Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

B.57 Intel Indeo Video 4.8

Compression Code or FourCC Codec ID: IV48
Codec ID in the IANA Namespace: video/vnd.avi;codec=IV48
Description: Intel Indeo Video 4.8

Contact:

Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

B.58 Intel Indeo Video 4.9

Compression Code or FourCC Codec ID: IV49
Codec ID in the IANA Namespace: video/vnd.avi;codec=IV49
Description: Intel Indeo Video 4.9

Contact:

Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

B.59 Intel Indeo Video 5.0

Compression Code or FourCC Codec ID: IV50
Codec ID in the IANA Namespace: video/vnd.avi;codec=IV50
Description: Intel Indeo Video 5.0
Bit Depth: 8, 16, 24, 32

Contact:

Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

B.60 Still Image JPEG DIB

Compression Code or FourCC Codec ID: JPEG
Codec ID in the IANA Namespace: video/vnd.avi;codec=JPEG
Description: Still Image JPEG DIB

Contact:

Terri Hendry

425-936-2069

Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399 USA

B.61 Motion JPEG DIB

Compression Code or FourCC Codec ID: MJPG
Codec ID in the IANA Namespace: video/vnd.avi;codec=MJPG
Description: Motion JPEG DIB Format
Bit Depth: 24, 8

Contact:

Terri Hendry
425-936-2069

Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399 USA

B.62 Microsoft MPEG-4 Video Codec

Compression Code or FourCC Codec ID: MP42
Codec ID in the IANA Namespace: video/vnd.avi;codec=MP42
Description: Microsoft MPEG-4 Video Codec V2

Contact:

Terri Hendry
425-936-2069

Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399 USA

B.63 MPEG 1 Video Frame

Compression Code or FourCC Codec ID: MPEG
Codec ID in the IANA Namespace: video/vnd.avi;codec=MPEG
Description: MPEG 1 Video I Frame

Contact:

Greg Stiehl
stiehl@chromatic.com
Chromatic Research, Inc
615 Tasman Dr
Sunnyvale, California 94089 USA
408-752-9100

B.64 MR Codec

Compression Code or FourCC Codec ID: MRCA
Codec ID in the IANA Namespace: video/vnd.avi;codec=MRCA

Description:	MR Codec
Contact:	
Martin Regen	
49/89/50206-252	
FAST Multimedia AG	
Lansbergerstrasse 76	
Munchen 80339 Germany	
49/89/50206-0	
B.65 Run Length Encoding	
Compression Code or FourCC Codec ID:	MRLE
Codec ID in the IANA Namespace:	video/vnd.avi;codec=MRLE
Description:	Run Length Encoding
Contact:	
Terri Hendry, 425-936-2069	
Microsoft Corporation	
One Microsoft Way	
Redmond, WA 98052-6399 USA	
B.66 Video 1	
Compression Code or FourCC Codec ID:	MSVC
Codec ID in the IANA Namespace:	video/vnd.avi;codec=MSVC
Description:	Microsoft Video 1
Contact:	
Terri Hendry, 425-936-2069	
Microsoft Corporation	
One Microsoft Way	
Redmond, WA 98052-6399 USA	
B.67 Photomotion	
Compression Code or FourCC Codec ID:	PHMO
Codec ID in the IANA Namespace:	video/vnd.avi;codec=PHMO
Description:	Photomotion
Contact:	
IBM Corporation	
B.68 QPEG 1.1 Format Video	
Compression Code or FourCC Codec ID:	qpeg
Codec ID in the IANA Namespace:	video/vnd.avi;codec=qpeg
Description:	QPEG 1.1 Format Video Codec
Contact:	
Dr. Knabe	
0049.2161.6181.0	

Q-Team

Brauereistr. 11

D-41352 Korschenbroich Germany

0049.2161.6181.0

B.69 RGBT

Compression Code or FourCC Codec ID:

RGBT

Codec ID in the IANA Namespace:

video/vnd.avi;codec=RGBT

Description:

32 bits support

Contact:

Andy Pennell

Computer Concepts Ltd.

Gaddesden Place

Hemel Hempstead, Herts HP2 6EX UK

44 1442 63933

B.70 Run Length Encoded 4

Compression Code or FourCC Codec ID:

RLE4

Codec ID in the IANA Namespace:

video/vnd.avi;codec=RLE4

Description:

Run Length Encoded 4

Bit Depth:

4

Contact:

Terri Hendry

425-936-2069

Microsoft Corporation

One Microsoft Way

Redmond, WA 98052-6399 USA

B.71 Run Length Encoded 8

Compression Code or FourCC Codec ID:

RLE8

Codec ID in the IANA Namespace:

video/vnd.avi;codec=RLE8

Description:

Run Length Encoded 8

Bit Depth:

8

Contact:

Terri Hendry, 425-936-2069

Microsoft Corporation

One Microsoft Way

Redmond, WA 98052-6399 USA

B.72 Indeo 2.1

Compression Code or FourCC Codec ID:

RT21

Codec ID in the IANA Namespace:

video/vnd.avi;codec=RT21

Description:

Indeo 2.1

Contact:

Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

B.73 Intel RDX

Compression Code or FourCC Codec ID: RVX
Codec ID in the IANA Namespace: video/vnd.avi;codec=RVX
Description: Intel RDX

Contact:

Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

B.74 Sun Digital Camera Codec

Compression Code or FourCC Codec ID: SDCC
Codec ID in the IANA Namespace: video/vnd.avi;codec=SDCC
Description: Sun Digital Camera Codec

Contact:

Hideki Inoue
hinoue@sun-denshi.co.jp
Sun Communications, Inc.
GLORIA Bld. 6F, 1-3, AGEBA-CHO, SHINJYUKU-KU
Tokyo 162 Japan
81-3-5261-1801

B.75 Crystal Net SFM Codec

Compression Code or FourCC Codec ID: SFMC
Codec ID in the IANA Namespace: video/vnd.avi;codec=SFMC
Description: Crystal Net SFM Codec

Contact:

Dr. Itzhak Levit
Crystal Net Corporation
1485 Saratoga Ave.
San Jose, California 95129 USA
408-446-2966

B.76 SMSC

Compression Code or FourCC Codec ID: SMSC
Codec ID in the IANA Namespace: video/vnd.avi;codec=SMSC
Description: SMSC

Contact:

Lee Boekelheide

Radius (USA)

503-968-1270

B.77 SMSD

Compression Code or FourCC Codec ID: SMSD

Codec ID in the IANA Namespace: video/vnd.avi;codec=SMSD

Description: SMSD

Contact:

Lee Boekelheide

Radius (USA)

503-968-1270

B.78 Splash Studios ACM Audio Codec

Compression Code or FourCC Codec ID: SPLC

Codec ID in the IANA Namespace: audio/vnd.wave;codec=SPLC

Description: Splash Studios ACM Audio Codec

Contact:

Mark Cutter

Splash Studios

8573 154th Avenue NE

Redmond, WA 98052 USA

425-882-0300

B.79 Microsoft Vxtreme Video Codec

Compression Code or FourCC Codec ID: SQZ2

Codec ID in the IANA Namespace: video/vnd.avi;codec=SQZ2

Description: Microsoft Vxtreme Video Codec V2

Contact:

Terri Hendry

425-936-2069

Microsoft Corporation

One Microsoft Way

Redmond, WA 98052-6399 USA

B.80 Sorenson Video R1

Compression Code or FourCC Codec ID: SV10

Codec ID in the IANA Namespace: video/vnd.avi;codec=SV10

Description: Sorenson Video R1

Contact:

Evan Hillman

ehillman@s-vision.com

Sorenson Vision
570 East Research Park Way
Logan, Utah 84341 USA
801-792-1114

B.81 TeraLogic Motion Intraframe Codec A
Compression Code or FourCC Codec ID: TLMS
Codec ID in the IANA Namespace: video/vnd.avi;codec=TLMS
Description: TeraLogic Motion Intraframe Codec

Contact:
Charles Chui
chui@teralogic-inc.com
650-526-6003
TeraLogic, Inc.
707 California Street
Mountain View, California 94041 USA
650-526-2000

B.82 TeraLogic Motion Intraframe Codec B
Compression Code or FourCC Codec ID: TLST
Codec ID in the IANA Namespace: video/vnd.avi;codec=TLST
Description: TeraLogic Motion Intraframe Codec

Contact:
Charles Chui
chui@teralogic-inc.com
650-526-6003
TeraLogic, Inc.
707 California Street
Mountain View, California 94041 USA
650-526-2000

B.83 TrueMotion 2.0
Compression Code or FourCC Codec ID: TM20
Codec ID in the IANA Namespace: video/vnd.avi;codec=TM20
Description: TrueMotion 2.0

Contact:
David Silver
david@duck.com
(212) 941-2403
The Duck Corporation
375 Greenwich Street
New York, New York 10013 USA

(212) 941-2400

B.84 TeraLogic Motion Intraframe Codec 2

Compression Code or FourCC Codec ID: TMIC

Codec ID in the IANA Namespace: video/vnd.avi;codec=TMIC

Description: TeraLogic Motion Intraframe Codec 2

Contact:

Charles Chui

chui@teralogic-inc.com

650-526-6003

TeraLogic, Inc.

707 California Street

Mountain View, California 94041 USA

650-526-2000

B.85 TrueMotion Video Compression

Compression Code or FourCC Codec ID: tmot

Codec ID in the IANA Namespace: video/vnd.avi;codec=tmot

Description: True Motion Video Compression

Contact:

Glen D. Johnson

Horizons Technology, Inc

3990 Ruffin Road

San Diego, California 92123 USA

619-292-8331

B.86 TrueMotion RT 2.0

Compression Code or FourCC Codec ID: TR20

Codec ID in the IANA Namespace: video/vnd.avi;codec=TR20

Description: TrueMotionRT 2.0

Contact:

David Silver

david@duck.com

(212) 941-2403

The Duck Corporation

375 Greenwich Street

New York, New York 10013 USA

(212) 941-2400

B.87 Ultimotion

Compression Code or FourCC Codec ID: ULTI

Codec ID in the IANA Namespace: video/vnd.avi;codec=ULTI

Description: Ultimotion

Contact:

IBM Corporation

B.88 UYVY 4:2:2 byte ordering

Compression Code or FourCC Codec ID:

UYVY

Codec ID in the IANA Namespace:

video/vnd.avi;codec=UYVY

Description:

UYVY 4:2:2 byte ordering

Bit Depth:

16

Contact:

Terri Hendry

425-936-2069

Microsoft Corporation

One Microsoft Way

Redmond, WA 98052-6399 USA

B.89 24 bit YUV 4:2:2 Format

Compression Code or FourCC Codec ID:

V422

Codec ID in the IANA Namespace:

video/vnd.avi;codec=V422

Description:

24 bit YUV 4:2:2 format (CCIR 601).

For this format, 2 consecutive pixels are represented by a 32 bit (4 byte) Y1UY2V color value.

Contact:

Gueirard RJ

33 1 46 29 0300

Vitec Multimedia

99 rue Pierre Semard

F-92320 Chatillon France

33-1-46-73-06-06

B.90 16 bit YUV 4:2:2 Format

Compression Code or FourCC Codec ID:

V655

Codec ID in the IANA Namespace:

video/vnd.avi;codec=V655

Description:

16 bit YUV 4:2:2 Format Codec

Contact:

Gueirard RJ

33 1 46 29 0300

Vitec Multimedia

99 rue Pierre Semard

F-92320 Chatillon France

33-1-46-73-06-06

B.91 ATI VCR 1.0

Compression Code or FourCC Codec ID:

VCR1

Codec ID in the IANA Namespace:	video/vnd.avi;codec=VCR1
Description:	ATI VCR 1.0
Contact:	
Ivan Yang	
Ivan@atitech.ca	
905-882-2600 x3243	
ATI Technologies Inc.	
33 Commerce Valley Dr. E.	
Thornhill, Ontario L3T 7N6 Canada	
905-882-2600	
B.92 ATI VCR 2.0	
Compression Code or FourCC Codec ID:	VCR2
Codec ID in the IANA Namespace:	video/vnd.avi;codec=VCR2
Description:	ATI VCR 2.0
Contact:	
Ivan Yang	
Ivan@atitech.ca	
905-882-2600 x3243	
ATI Technologies Inc.	
33 Commerce Valley Dr. E.	
Thornhill, Ontario L3T 7N6 Canada	
905-882-2600	
B.93 ATI VCR 3.0	
Compression Code or FourCC Codec ID:	VCR3
Codec ID in the IANA Namespace:	video/vnd.avi;codec=VCR3
Description:	ATI VCR 3.0
Contact:	
Ivan Yang	
Ivan@atitech.ca	
905-882-2600 x3243	
ATI Technologies Inc.	
33 Commerce Valley Dr. E.	
Thornhill, Ontario L3T 7N6 Canada	
905-882-2600	
B.94 ATI VCR 4.0	
Compression Code or FourCC Codec ID:	VCR4
Codec ID in the IANA Namespace:	video/vnd.avi;codec=VCR4
Description:	ATI VCR 4.0
Contact:	

Ivan Yang
Ivan@atitech.ca
905-882-2600 x3243
ATI Technologies Inc.
33 Commerce Valley Dr. E.
Thornhill, Ontario L3T 7N6 Canada
905-882-2600

B.95 ATI VCR 5.0

Compression Code or FourCC Codec ID: VCR5
Codec ID in the IANA Namespace: video/vnd.avi;codec=VCR5
Description: ATI VCR 5.0

Contact:

Ivan Yang
Ivan@atitech.ca
905-882-2600 x3243
ATI Technologies Inc.
33 Commerce Valley Dr. E.
Thornhill, Ontario L3T 7N6 Canada
905-882-2600

B.96 ATI VCR 6.0

Compression Code or FourCC Codec ID: VCR6
Codec ID in the IANA Namespace: video/vnd.avi;codec=VCR6
Description: ATI VCR 6.0

Contact:

Ivan Yang
Ivan@atitech.ca
905-882-2600 x3243
ATI Technologies Inc.
33 Commerce Valley Dr. E.
Thornhill, Ontario L3T 7N6 Canada
905-882-2600

B.97 ATI VCR 7.0

Compression Code or FourCC Codec ID: VCR7
Codec ID in the IANA Namespace: video/vnd.avi;codec=VCR7
Description: ATI VCR 7.0

Contact:

Ivan Yang
Ivan@atitech.ca
905-882-2600 x3243

ATI Technologies Inc.
33 Commerce Valley Dr. E.
Thornhill, Ontario L3T 7N6 Canada
905-882-2600

B.98 ATI VCR 8.0

Compression Code or FourCC Codec ID:

Codec ID in the IANA Namespace:

Description:

Contact:

Ivan Yang

Ivan@atitech.ca

905-882-2600 x3243

ATI Technologies Inc.

33 Commerce Valley Dr. E.

Thornhill, Ontario L3T 7N6 Canada

905-882-2600

B.99 ATI VCR 9.0

Compression Code or FourCC Codec ID:

Codec ID in the IANA Namespace:

Description:

Contact:

Ivan Yang

Ivan@atitech.ca

905-882-2600 x3243

ATI Technologies Inc.

33 Commerce Valley Dr. E.

Thornhill, Ontario L3T 7N6 Canada

905-882-2600

B.100 Video Maker Pro DIB

Compression Code or FourCC Codec ID:

Codec ID in the IANA Namespace:

Description:

Bit Depth:

Contact:

Gueirard RJ

33 1 46 29 0300

Vitec Multimedia

99 rue Pierre Semard

F-92320 Chatillon France

VCR8

video/vnd.avi;codec=VCR8

ATI VCR 8.0

VCR9

video/vnd.avi;codec=VCR9

ATI VCR 9.0

VDCT

video/vnd.avi;codec=VDCT

Video Maker Pro DIB

16

33-1-46-73-06-06

B.101 YUV 4:2:2 CCIR 601 for V422

Compression Code or FourCC Codec ID:

Codec ID in the IANA Namespace:

Description:

Bit Depth:

Contact:

Gueirard RJ

33 1 46 29 0300

Vitec Multimedia

99 rue Pierre Semard

F-92320 Chatillon France

33-1-46-73-06-06

B.102 Vivo H.263

Compression Code or FourCC Codec ID: VIVO (Note: it is also registered as vivo)

Codec ID in the IANA Namespace:

(Note: it is also registered as video/vnd.avi;codec=vivo)

Description:

Bit Depth:

Contact:

Vivo Software

411 Waverley Oaks Road, Suite 313

Waltham, MA 02154 USA

(617) 899-8900

B.103 VIXL

Compression Code or FourCC Codec ID: VIXL

Codec ID in the IANA Namespace:

Description:

and movie products

Bit Depth:

Contact:

Matthias Huebner

49-531-2113-519

Miro Computer Products AG

Carl-Miele-Strasse 4

Braunschweig 38112 Germany

49-531-2113-0

B.104 VLCAP.DRV

VIDS

video/vnd.avi;codec=VIDS

YUV 4:2:2 CCIR for V422

24, 16

VIVO (Note: it is also

video/vnd.avi;codec=VIVO

Vivo H.263

16

VIXL

video/vnd.avi;codec=VIXL

for use with the miro video

8, 16, 24

Compression Code or FourCC Codec ID:	VLV1
Codec ID in the IANA Namespace:	video/vnd.avi;codec=VLV1
Description:	VLCAP.DRV
Contact:	
Videologic	
Home Park Estate	
Kings Langley WD4 8LZ UK	
44923260511	
B.105 W9960	
Compression Code or FourCC Codec ID:	WBVC
Codec ID in the IANA Namespace:	video/vnd.avi;codec=WBVC
Description:	W9960
Contact:	
Jason Lin	
JLLIN@winbond.com.tw	
Winbond Electronics Corp	
PG41, No. 9, Li Hsin Rd.	
Science-Based Industrial Park	
Hsinchu, Taiwan	
886-3-5790666 x6641	
B.106 mmioFOURCC('X','2','6','3')	
Compression Code or FourCC Codec ID:	X263
Codec ID in the IANA Namespace:	video/vnd.avi;codec=X263
Description:	mmioFOURCC('X','2','6','3')
Bit Depth:	12 bits/pixel
Contact:	
Min-Hsiung Lin	
Min.Lin@xirlink.com	
Xirlink, Inc.	
2210 O'Toole Ave.	
San Jose, California 95131 USA	
408-324-2100	
B.107 XL Video Decoder	
Compression Code or FourCC Codec ID:	XLV0
Codec ID in the IANA Namespace:	video/vnd.avi;codec=XLV0
Description:	PC1 4:1:1 with transparency
Contact:	
Gary Grandbois	
NetXL, Inc	

48521 Warm Springs Blvd., Suite 310
Fremont, California 94539 USA
510-445-8734

B.108 YUV 2:1:1 Packed
Compression Code or FourCC Codec ID: Y211
Codec ID in the IANA Namespace: video/vnd.avi;codec=Y211
Description: YUV 2:1:1 Packed
Bit Depth: 8
Contact:

Terri Hendry, 425-936-2069
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399 USA

B.109 YUV 4:1:1 Packed
Compression Code or FourCC Codec ID: Y411
Codec ID in the IANA Namespace: video/vnd.avi;codec=Y411
Description: YUV 4:1:1 Packed
Bit Depth: 16
Contact:

Terri Hendry, 425-936-2069
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399 USA

B.110 YUV 4:1:1 Planar
Compression Code or FourCC Codec ID: Y41B
Codec ID in the IANA Namespace: video/vnd.avi;codec=Y41B
Description: YUV 4:1:1 Planar
Contact:

408-522-7541

Weitek (USA)

B.111 PC1 4:1:1
Compression Code or FourCC Codec ID: Y41P
Codec ID in the IANA Namespace: video/vnd.avi;codec=Y41P
Description: PC1 4:1:1
Bit Depth: 12
Contact:

Dave Wilson
512-502-1725
Brooktree Corporation

9868 Scranton Road
San Diego, California 92121-3707 USA
1-800-228-2777

B.112 PCI 4:1:1 with transparency
Compression Code or FourCC Codec ID:
Codec ID in the IANA Namespace:

Description:

Bit Depth:

Contact:

Dave Wilson
512-502-1725

Brooktree Corporation
9868 Scranton Road
San Diego, California 92121-3707 USA
1-800-228-2777

B.113 YUV 4:2:2 Planar
Compression Code or FourCC Codec ID:
Codec ID in the IANA Namespace:

Description:

Contact:

Weitek (USA)
408-522-7541

B.114 PCI 4:2:2 with transparency
Compression Code or FourCC Codec ID:
Codec ID in the IANA Namespace:

Description:

Bit Depth:

Contact:

Dave Wilson
512-502-1725

Brooktree Corporation
9868 Scranton Road
San Diego, California 92121-3707 USA
1-800-228-2777

B.115 Intel YUV12 Codec
Compression Code or FourCC Codec ID:
Codec ID in the IANA Namespace:

Description:

Contact:

Y41T

video/vnd.avi;codec=Y41T

PCI 4:1:1 with transparency

12

Y42B

video/vnd.avi;codec=Y42B

YUV 4:2:2 Planar

Y42T

video/vnd.avi;codec=Y42T

PCI 4:2:2 with transparency

12

YC12

video/vnd.avi;codec=YC12

Intel YUV12 Codec

Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

B.116 Winnov Caviar YUV8

Compression Code or FourCC Codec ID: YUV8
Codec ID in the IANA Namespace: video/vnd.avi;codec=YUV8
Description: Winnov Caviar YUV8

Contact:

Winnov, Inc.

1230 Oakmead Parkway, Suite 312
Sunnyvale, California 94086
408-733-7419

B.117 YUV9

Compression Code or FourCC Codec ID: YUV9
Codec ID in the IANA Namespace: video/vnd.avi;codec=YUV9
Description: YUV9

Contact:

Intel Corporation

5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

B.118 YUYV 4:2:2 byte ordering packed

Compression Code or FourCC Codec ID: YUY2
Codec ID in the IANA Namespace: video/vnd.avi;codec=YUY2
Description: YUYV 4:2:2 byte ordering packed
Bit Depth: 16

Contact:

Microsoft Corporation

One Microsoft Way
Redmond, WA 98052-6399 USA

B.119 BI_YUYV, Canopus

Compression Code or FourCC Codec ID: YUYV
Codec ID in the IANA Namespace: video/vnd.avi;codec=YUYV
Description: BI_YUYV, Canopus

Bit Depth: 16

Contact:

Masayoshi Araki

m-araki@canopus.co.jp

81-78-992-7812

Canopus, Co., Ltd.

Kobe Hi-Tech Park

1-2-2 Murotani, Nishi-ku

Kobe, Hyogo 651-22 Japan

B.120 YVU12 Planar

Compression Code or FourCC Codec ID:

YV12

Codec ID in the IANA Namespace:

video/vnd.avi;codec=YV12

Description:

YVU12 Planar

Contact:

Weitek

408-522-7541

B.121 YVU9 Planar

Compression Code or FourCC Codec ID:

YVU9

Codec ID in the IANA Namespace:

video/vnd.avi;codec=YVU9

Description:

YVU9 Planar

Bit Depth:

9

Contact:

Intel Corporation

5200 NE Elam Young Parkway

Hillsboro, Oregon 97124 USA

503-696-2448

B.122 YVYU 4:2:2 byte ordering

Compression Code or FourCC Codec ID:

YVYU

Codec ID in the IANA Namespace:

video/vnd.avi;codec=YUV9

Description:

YVYU

Bit Depth:

16

Contact:

Microsoft Corporation

One Microsoft Way

Redmond, WA 98052-6399 USA

B.123 Video Zipper

Compression Code or FourCC Codec ID:

ZPEG

Codec ID in the IANA Namespace:

video/vnd.avi;codec=ZPEG

Description:

for the Video Zipper

Contact:

Metheus

1600 NW Compton Drive

Beaverton, Oregon 97006-6905 USA

503-690-1550

[RFC2361] Fleischman, E., "WAVE and AVI Codec Registries", RFC 2361,
June 1998.