Testfile

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Chapter 1

Testfile

1.1 Table Of Contents

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1.2 MHI/MHIAllocDecoder

```
NAME

MHIAllocDecoder - allocate a decoder

SYNOPSIS

handle = MHIAllocDecoder(task, mhisignal);

d0 d0

APTR MHIAllocDecoder (Task *, ULONG mhisignal);
```

```
FUNCTION
       Allocate a decoder. This function gives you a handle in d0 which is
       required by other MHI functions. The handle is private and it's
       contents will vary with each decoder, so don't poke it. Note that
       some decoders may allow more than one handle to be allocated,
       meaning that they can output more than one MPEG stream at once.
       When you allocate a handle all resources required by the decoder are
       also allocated (memory, hardware etc). The decoder is then ready to
       start decoding.
   INPUTS
                 - a pointer to the task you want to receive signals
       task
                   from MHI
       mhisignal - a signal mask to use when signaling your task
   RESULT
       handle
                 - a pointer to your handle
   EXAMPLE
       /* Note: use more error checking! */
       /* See example code
                                          */
       mytask = FindTask(0);
       mysignal = AllocSignal(-1);
       sigmask = 1L << mysignal;</pre>
       handle = MHIAllocDecoder(mytask, sigmask);
   NOTES
       You must dispose of your handle when done with it.
   BUGS
   SEE ALSO
       MHIFreeDecoder
1.3 MHI/MHIFreeDecoder
   NAME
       MHIFreeDecoder - free a decoder up
```

```
SYNOPSIS
```

MHIFreeDecoder(handle); a3

VOID MHIFreeDecoder(APTR handle);

```
FUNCTION
```

Free the given handle. You must call this function when you are finished with a handle and wish to free the decoder up.

INPUTS

handle - the handle you were allocated

RESULT

None

EXAMPLE

MHIFreeDecoder(handle);

NOTES

No checking is done, so don't pass a bad handle.

BUGS

SEE ALSO MHIAllocDecoder

1.4 MHI/MHIGetEmpty

MHIQueueBuffer

```
NAME
   MHIGetEmpty
SYNOPSIS
   buffer = MHIGetEmpty(handle);
    d0
                         a3
    APTR MHIGetEmpty (APTR handle);
FUNCTION
   Find the next empty buffer in the queue. If there are any empty
    buffers left the first one is freed and removed from the queue,
    and a pointer to it returned to you. You are then free to do what
    you like with that buffer (e.g. FreeMem() it, load more data into
    it etc).
INPUTS
   handle - the handle you were allocated
RESULT
   buffer - a pointer to the used buffer
EXAMPLE
    while (usedbuf = MHIGetEmpty(handle))
    {
    . . .
    }
NOTES
    Requires a valid handle. You should use this function in a loop
    after you receive a signal from MHI, just as you would when
    checking a Message Port. The buffer that is freed is considered
    'empty' and as such you cannot rely on it's contents at all. It
    may however contain data, as it is not automatically cleared.
BUGS
SEE ALSO
```

1.5 MHI/MHIGetStatus

```
NAME
       MHIGetStatus
   SYNOPSIS
       status = MHIGetStatus(handle);
       d0
                             a.3
       UBYTE MHIGetStatus (APTR handle);
   FUNCTION
       Return the current status of the MHI decoder. This give you
       information about what the decoder is doing, and if it has
       stalled (MHIF_OUT_OF_DATA).
   INPUTS
       handle - the handle you were allocated
   RESULT
       status - one of: MHIF_PLAYING (player currently outputting sound)
                         MHIF_STOPPED (doing nothing)
                         MHIF_OUT_OF_DATA (run out of data but still
                                           waiting for more)
                         MHIF_PAUSED (play currently paused but can
                                      be restarted)
   EXAMPLE
       status = MHIGetStatus(handle);
   NOTES
       You can use this to check if an MPEG stream has finished
       decoding by waiting for buffers to be returned to you and
       then checking if status = MHIF_OUT_OF_DATA. See example code.
   BUGS
   SEE ALSO
      MHIPlay
       MHIStop
       MHIPause
1.6 MHI/MHIPause
   NAME
      MHIPause
   SYNOPSIS
      MHIPause (handle);
                a3
       VOID MHIPause (APTR handle);
```

FUNCTION

```
Halt decoding and audio output. The buffer queue is not
    altered and play may begin again at exactly where it left
    off.
INPUTS
   handle - the handle you were allocated
RESULT
   None
EXAMPLE
   MHIPause(handle);
NOTES
   Use MHIPlay to start decoding again. MHIStop can also be
    used even if the decoder is paused.
BUGS
SEE ALSO
   MHIGetStatus
   MHIPlay
   MHIStop
```

1.7 MHI/MHIPlay

```
NAME
   MHIPlay
SYNOPSIS
   MHIPlay(handle);
            аЗ
   VOID MHIPlay(APTR handle);
FUNCTION
    Set the MHI decoder into play mode. The decoder starts
    decoding the first buffer in the queue.
INPUTS
    handle - the handle you were allocated
RESULT
   None
EXAMPLE
   MHIPlay(handle);
NOTES
   You may call this function without any buffers in the
    queue, but it is usually best to buffer some data
    before starting the decoding.
BUGS
```

```
SEE ALSO
MHIGetStatus
MHIStop
MHIPause
```

1.8 MHI/MHIQuery

```
NAME
   MHIQuery
SYNOPSIS
    result = MHIQuery(query);
    d0
                      d1
    ULONG MHIQuery (ULONG query);
FUNCTION
    Query some aspect of the decoder. A complete list of available
    queries can be found in mhi.h.
        MHIQ DECODER NAME
        MHIQ_DECODER_VERSION
        MHIQ_AUTHOR
            Return a string pointer to the name of the
            decoder/author/version string.
        MHIQ_IS_HARDWARE
            MHIF_TRUE if decoder is hardware, MHIF_FALSE if it's
            software based.
        MHIQ_IS_68K
        MHIQ_IS_PPC
            Same as MHIQ_IS_HARDWARE for 68k/PPC processor based
            decoders.
        MHIQ_MPEG1
        MHIQ MPEG2
        MHIQ MPEG25
        MHIQ MPEG4
            Return MHIF_TRUE if MPEG version is supported, or
            MHIF_FALSE if not.
        MHIQ_LAYER1
        MHIQ LAYER2
        MHIQ_LAYER3
            Return MHIF_TRUE if MPEG layer is supported, or
            MHIF_FALSE if not.
        MHIQ_VARIABLE_BITRATE
        MHIQ_JOINT_STEREO
            Return MHIF_TRUE if encoding format is supported, or
            MHIF_FALSE if not.
        MHIQ_BASS_CONTROL
        MHIQ_TREBLE_CONTROL
```

```
MHIQ MID CONTROL
            Return MHIF_TRUE if tone control is supported, or
            MHIF_FALSE if not.
        MHIQ_VOLUME_CONTROL
        MHIQ_PANNING_CONTROL
        MHIQ_CROSSMIXING
           Return MHIF_TRUE if output control is supported, or
           MHIF_FALSE if not.
INPUTS
           - an MHIQ_#? query flag.
   query
RESULT
    result - the result code, see mhi.h and above
EXAMPLE
    /* see if decoder support variable bit rates */
    result = MHIQuery(MHIQ_VARIABLE_BITRATE);
NOTES
BUGS
```

SEE ALSO

1.9 MHI/MHIQueueBuffer

```
NAME
   MHIQueueBuffer - add a memory buffer to the decoder queue
SYNOPSIS
    success = MHIQueueBuffer(handle, buffer, size);
    d0
                             аЗ
                                     a0
                                             d0
    BOOL MHIQueueBuffer (APTR handle, APTR buffer, ULONG size);
FUNCTION
    Add a buffer to the decoder queue. Once the buffer is in the queue
    you are not allowed to alter it in any way until it is released
    by MHI.
INPUTS
    handle - the handle you were allocated
    buffer - a pointer to the start of the buffer to be queued
           - the byte size of the buffer
    size
RESULT
    success - TRUE (-1) when buffer was queued or FALSE (0) when
              for some reason the buffer could not be queued
EXAMPLE
   MHIQueueBuffer(handle, bufmem, size);
NOTES
```

```
Requires a valid handle.
```

BUGS

SEE ALSO MHIGetEmpty

1.10 MHI/MHISetParam

```
NAME
   MHISetParam
SYNOPSIS
   MHISetParam(handle, param, value);
    VOID MHISetParam(APTR handle, UWORD param, ULONG value);
                     a3
                                  d0
                                             d1
FUNCTION
    Alter one of the decoder parameters. Commonly used to set volume,
    bass, treble, panning etc. A complete list of parameters can be
    found in mhi.h. Details of current parameters:
        MHIP_VOLUME
            Overall sound volume. 100 is max, 0 is silence.
        MHIP PANNING
            Sound panning. 50 is centre (default), 0 is full left and
            100 is full right.
        MHIP_CROSSMIXING
            Crossmixing is where some of the sound from the left
            channel is mixed onto the right channel, and vice versa.
            It is often used to lessen the stereo effect for people
            using headphones. Also similar to 'surround' sound
            effects used in some software. O is no mixing (default)
            and 100 is maximum (effectively mono).
        MHIP BASS
        MHIP MID
        MHIP_TREBLE
            These parameters control tone. Bass is low frequencies,
            and treble is high. Mid is everything in between. MHI
            does not specify the exact frequency ranges that these
            cover, as it can vary with hardware for instance.
            50 is the default, with no tone modification. 100 is
            maximum boost, and 0 is is maximum cut.
        MHIP PREFACTOR
            Prefactor allows sound levels to be boosted or reduced
            before it goes through tone control. This is useful to
            prevent 'chopping', where the signal is boosted too
            much by tone control and distorts. It is not the same
```

as volume. The default is 50, which is no prefactor. 100 is maximum cut, where sound levels are lowered,

and 0 is maximum boost. INPUTS - the handle you were allocated handle - the parameter you want to alter param value - the value to set ? RESULT Parameter is set if value is valid EXAMPLE /* pump up the bass man */ MHISetParam(handle, MHIP_BASS, 90); ? NOTES SEE ALSO

1.11 MHI/MHIStop

NAME MHIStop SYNOPSIS MHIStop(handle); a3 VOID MHIStop(APTR handle); FUNCTION Stop all decoding and audio output. All buffers in the queue are flushed. INPUTS handle - the handle you were allocated RESULT None EXAMPLE MHIStop(handle); NOTES This function will flush the buffer queue. Use MHIPause if you want to resume play where you left off later without emptying the buffer queue. BUGS SEE ALSO MHIGetStatus MHIPlay MHIPause