

NAME

Encode::MIME::Header -- MIME encoding for an unstructured email header

SYNOPSIS

ABSTRACT

This module implements *RFC 2047* MIME encoding for an unstructured field body of the email header. It can also be used for *RFC 822* 'text' token. However, it cannot be used directly for the whole header with the field name or for the structured header fields like From, To, Cc, Message-Id, etc... There are 3 encoding names supported by this module: MIME-Header, MIME-B and MIME-Q.

DESCRIPTION

Decode method takes an unstructured field body of the email header (or *RFC 822* 'text' token) as its input and decodes each MIME encoded-word from input string to a sequence of bytes according to *RFC 2047* and *RFC 2231*. Subsequently, each sequence of bytes with the corresponding MIME charset is decoded with *the Encode module* and finally, one output string is returned. Text parts of the input string which do not contain MIME encoded-word stay unmodified in the output string. Folded newlines between two consecutive MIME encoded-words are discarded, others are preserved in the output string. MIME-B can decode Base64 variant, MIME-Q can decode Quoted-Printable variant and MIME-Header can decode both of them. If *Encode module* does not support particular MIME charset or chosen variant then an action based on *CHECK flags* is performed (by default, the MIME encoded-word is not decoded).

Encode method takes a scalar string as its input and uses *strict UTF-8* encoder for encoding it to UTF-8 bytes. Then a sequence of UTF-8 bytes is encoded into MIME encoded-words (MIME-Header and MIME-B use a Base64 variant while MIME-Q uses a Quoted-Printable variant) where each MIME encoded-word is limited to 75 characters. MIME encoded-words are separated by CRLF SPACE and joined to one output string. Output string is suitable for unstructured field body of the email header.

Both encode and decode methods propagate *CHECK flags* when encoding and decoding the MIME charset.

BUGS

Versions prior to 2.22 (part of Encode 2.83) have a malfunctioning decoder and encoder. The MIME encoder infamously inserted additional spaces or discarded white spaces between consecutive MIME



encoded-words, which led to invalid MIME headers produced by this module. The MIME decoder had a tendency to discard white spaces, incorrectly interpret data or attempt to decode Base64 MIME encoded-words as Quoted-Printable. These problems were fixed in version 2.22. It is highly recommended not to use any version prior 2.22!

Versions prior to 2.24 (part of Encode 2.87) ignored *CHECK flags*. The MIME encoder used *not strict utf8* encoder for input Unicode strings which could lead to invalid UTF-8 sequences. MIME decoder used also *not strict utf8* decoder and additionally called the decode method with a <code>Encode::FB_PERLQQ</code> flag (thus user-specified *CHECK flags* were ignored). Moreover, it automatically croaked when a MIME encoded-word contained unknown encoding. Since version 2.24, this module uses *strict UTF-8* encoder and decoder. And *CHECK flags* are correctly propagated.

Since version 2.22 (part of Encode 2.83), the MIME encoder should be fully compliant to *RFC 2047* and *RFC 2231*. Due to the aforementioned bugs in previous versions of the MIME encoder, there is a *less strict* compatible mode for the MIME decoder which is used by default. It should be able to decode MIME encoded-words encoded by pre 2.22 versions of this module. However, note that this is not correct according to *RFC 2047*.

In default *not strict* mode the MIME decoder attempts to decode every substring which looks like a MIME encoded-word. Therefore, the MIME encoded-words do not need to be separated by white space. To enforce a correct *strict* mode, set variable \$Encode::MIME::Header::STRICT_DECODE to 1 e.g. by localizing:

```
use Encode::MIME::Header;
local $Encode::MIME::Header::STRICT_DECODE = 1;
```

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SEE ALSO

Encode, RFC 822, RFC 2047, RFC 2231