

File created: 23-Feb-2026 12:15:24 {WMEDLEY}<sources>UNICODE-FORMATS.;2

edit by: rmk

changes to: (VARS UNICODE-FORMATSCOMS)
(FNS MAKE-UNICODE-FORMATS)

previous date: 23-Feb-2026 08:52:29 {WMEDLEY}<sources>UNICODE-UTF8.;26

Read Table: INTERLISP

Package: INTERLISP

Format: UTF-8

(RPAQQ UNICODE-FORMATSCOMS

:: Defines the UTF-8 external format. This is part of the MAKEINIT, and therefore loads and uses the ALIST mapping that is created
:: whenever the file is dumped.

(FNS UTF8.OUTCHARFN UTF8.SLUG.OUTCHARFN UTF8.INCCODEFN UTF8.PEEKCCODEFN \UTF8.BACKCCODEFN)
(FNS UTF16BE.OUTCHARFN UTF16BE.INCCODEFN UTF16BE.PEEKCCODEFN \UTF16BE.BACKCCODEFN)
(FNS UTF16LE.OUTCHARFN UTF16LE.INCCODEFN UTF16LE.PEEKCCODEFN \UTF16LE.BACKCCODEFN)

(FNS READBOM WRITEBOM)

(FNS MAKE-UNICODE-FORMATS)

[DECLARE%: DONTEVAL@LOAD DOCOPY (P (MAKE-UNICODE-FORMATS 'LF]

(FNS UTF8.BINCODE \UTF8.FETCHCODE)

(FNS UTF8.VALIDATE NUTF8-BYTE1-BYTES NUTF8-CODE-BYTES NUTF8-STRING-BYTES N-MCHARS)

(COMS ; For MAKEINIT, before hashing--no need for XCCS

(FNS MTOUCODE UTOMCODE MTOUCODE? UTOMCODE?))

(FNS MTOUSTRING UTOMSTRING MTOUTF8STRING UTF8TOMSTRING)

; XCCS is not so interesting in the loadup

(FNS XTOUCODE UTOXCODE XTOUCODE? UTOXCODE? XTOUNSTRING UTOXSTRING XTOUTF8STRING)

(FNS MERGE-UNICODE-TRANSLATION-TABLES UNICODE.UNMAPPED)

(DECLARE%: EVAL@COMPILE DONTCOPY (MACROS UNICODE.TRANSLATE \UTF8.GETBASEBYTE UNICODE.SMALLP
TRUECODEP))

(ADDVARS (*DEFAULT-EXTERNALFORMATS* (UNIX :UTF-8)))

(INITVARS *MCCSTOUNICODE* *UNICODEMCCS* *LARGEUNICODES*)

(GLOBALVARS *MCCSTOUNICODE* *UNICODEMCCS* *LARGEUNICODES*)

(COMS :: There are 6400 private Unicodes in 25 256-code charsets. For MCCS we map to a contiguous region of
:: unused/reserved--private isn't big enough

(GLOBALVARS *NEXT-PRIVATE-UNICODE* *NEXT-PRIVATE-MCCSCODE*)

[DECLARE%: EVAL@COMPILE DONTCOPY (CONSTANTS (FIRST-PRIVATE-UNICODE (HEXNUM? "E000"))

(LAST-PRIVATE-UNICODE (HEXNUM? "F8FF"))

(FIRST-PRIVATE-MCCSCODE (CHARCODE "200,0"))

(LAST-PRIVATE-MCCSCODE (CHARCODE "230,377"]

(FNS UNICODE-INIT)

(P (UNICODE-INIT)))

(DECLARE%: EVAL@LOAD DONTCOPY (FILES UNICODE-TABLES))

(E (PRINTOUT NIL "(MERGE-UNICODE-TRANSLATION-TABLES NIL (QUOTE " (GET-MCCS-UNICODE-MAPPING 'ALL)
)")" T))))

:: Defines the UTF-8 external format. This is part of the MAKEINIT, and therefore loads and uses the ALIST mapping that is created whenever the
:: file is dumped.

(DEFINEQ

(UTF8.OUTCHARFN

[LAMBDA (STREAM CHARCODE RAW)

; Edited 24-Apr-2025 15:43 by rmk

; Edited 20-Jan-2025 20:45 by rmk

; Edited 31-Jan-2024 00:32 by rmk

; Edited 8-Aug-2021 13:02 by rmk:

; Edited 17-Aug-2020 08:45 by rmk:

; Edited 30-Jan-2020 23:08 by rmk:

:: Perhaps the translation table should already do the mapping for EOL to LF, but that seems to be a separate property of the stream. Also,
:: CRLF=2 bytes.

:: Print UTF8 sequence for CHARCODE. Do not do MCCS to Unicode translation if RAW.

(IF (EQ CHARCODE (CHARCODE EOL))

THEN (FREPLACE (STREAM CHARPOSITION) OF STREAM WITH 0)

(\BOUTEOL STREAM)

ELSE (CHANGE (FFETCH (STREAM CHARPOSITION) OF STREAM)

(IPLUS16 1 DATUM))

(FOR C INSIDE (CL:IF RAW

CHARCODE

(UNICODE.TRANSLATE CHARCODE *MCCSTOUNICODE*))

DO (IF (ILESSP C 128)

THEN (\BOUT STREAM C)

ELSEIF (ILESSP C 2048)

THEN

; x800

```

      (|BOUT STREAM (LOGOR (LLSH 3 6)
                          (LRSH C 6)))
      (|BOUT STREAM (LOGOR (LLSH 2 6)
                          (LOADBYTE C 0 6)))
ELSEIF (ILESSP C 65536)
  THEN ; x10000
      (|BOUT STREAM (LOGOR (LLSH 7 5)
                          (LRSH C 12)))
      (|BOUT STREAM (LOGOR (LLSH 2 6)
                          (LOADBYTE C 6 6)))
      (|BOUT STREAM (LOGOR (LLSH 2 6)
                          (LOADBYTE C 0 6)))
ELSEIF (ILESSP C 2097152)
  THEN ; x200000
      (|BOUT STREAM (LOGOR (LLSH 15 4)
                          (LRSH C 18)))
      (|BOUT STREAM (LOGOR (LLSH 2 6)
                          (LOADBYTE C 12 6)))
      (|BOUT STREAM (LOGOR (LLSH 2 6)
                          (LOADBYTE C 6 6)))
      (|BOUT STREAM (LOGOR (LLSH 2 6)
                          (LOADBYTE C 0 6)))
ELSE (ERROR "CHARCODE too big for UTF8" C])

```

```

(UTF8.SLUG.OUTCHARFN
[LAMBDA (STREAM CODE RAW) ; Edited 24-Apr-2025 15:43 by rmk
; Edited 21-Jan-2025 18:37 by rmk
; Edited 14-Jan-2025 12:39 by rmk

```

;; Produces Unicode Representative FFFD as a slug for MCCS unmapped characters

```

(UTF8.OUTCHARFN STREAM (OR (CL:IF RAW
                           CODE
                           (XTOUCODE? CODE))
                           (CONSTANT (HEXNUM? "FFFD"))))
T])

```

```

(UTF8.INCCODEFN
[LAMBDA (STREAM COUNTP RAW) ; Edited 22-Feb-2026 14:13 by rmk
; Edited 19-Feb-2026 11:31 by rmk
; Edited 23-Oct-2025 08:31 by rmk
; Edited 24-Apr-2025 15:44 by rmk
; Edited 2-Feb-2024 11:44 by rmk
; Edited 30-Jan-2024 22:56 by rmk
; Edited 6-Aug-2021 16:02 by rmk:
; Edited 6-Aug-2020 17:13 by rmk:

```

;; Do not do UNICODE to MCSS translation if RAW.

;; Test for smallp because the stream's End-of-file operation may suppress the error

```

(DECLARE (USEDFREE *BYTECOUNTER*))
(LET (BYTE1 BYTE2 BYTE3 BYTE4 CODE (COUNT 1))
  (SETQ BYTE1 (\BIN STREAM))

```

;; Distinguish on header bytes (modulo peculiar EOF behavior--the caller will get whatever ended up in BYTE1

```

(CL:WHEN (SMALLP BYTE1)
  [SETQ CODE (if (ILEQ BYTE1 127)

```

then ;; Test first: Ascii is the common case. EOL requires its own translation

```

  (SELCHARQ BYTE1
    (CR (SELECTC (fetch (STREAM EOLCONVENTION) of STREAM)
                (CR.EOLC ; Also eq BYTE1
                        (CHARCODE EOL))
                (CRLF.EOLC (if (EQ (CHARCODE LF)
                                   (\PEEKBIN STREAM T))
                               then (\BIN STREAM)
                                   (CL:WHEN COUNTP (SETQ COUNT 2))
                                   (CHARCODE EOL))

```

```

else BYTE1))
  BYTE1))
  (LF (CL:IF (EQ LF.EOLC (fetch (STREAM EOLCONVENTION) of STREAM)
    )
    (CHARCODE EOL)
    BYTE1))
  BYTE1)
elseif (ILEQ BYTE1 223)
  then ; 2 bytes
  (SETQ COUNT 2)
  (SETQ BYTE2 (BIN STREAM))
  (CL:WHEN (OR (NOT (SMALLP BYTE2))
    (ILESSP BYTE2 128))
    (ERROR "INVALID UTF8 SEQUENCE" (LIST BYTE1 BYTE2)))
  (LOGOR (LLSH (LOADBYTE BYTE1 0 5)
    6)
    (LOADBYTE BYTE2 0 6))
elseif (ILEQ BYTE1 239)
  then ; 3 bytes
  (SETQ BYTE2 (BIN STREAM))
  (CL:WHEN (OR (NOT (SMALLP BYTE2))
    (ILESSP BYTE2 128))
    (ERROR "INVALID UTF8 SEQUENCE" (LIST BYTE1 BYTE2)))
  (SETQ BYTE3 (BIN STREAM))
  (CL:WHEN (OR (NOT (SMALLP BYTE3))
    (ILESSP BYTE3 128))
    (ERROR "INVALID UTF8 SEQUENCE" (LIST BYTE1 BYTE2 BYTE3)))
  (SETQ COUNT 3)
  (LOGOR (LLSH (LOADBYTE BYTE1 0 4)
    12)
    (LLSH (LOADBYTE BYTE2 0 6)
    6)
    (LOADBYTE BYTE3 0 6))
else ; 4 bytes
  (SETQ BYTE2 (BIN STREAM))
  (CL:WHEN (OR (NOT (SMALLP BYTE2))
    (ILESSP BYTE2 128))
    (ERROR "INVALID UTF8 SEQUENCE" (LIST BYTE1 BYTE2)))
  (SETQ BYTE3 (BIN STREAM))
  (CL:WHEN (OR (NOT (SMALLP BYTE3))
    (ILESSP BYTE3 128))
    (ERROR "INVALID UTF8 SEQUENCE" (LIST BYTE1 BYTE2 BYTE3)))
  (SETQ BYTE4 (BIN STREAM))
  (CL:WHEN (OR (NOT (SMALLP BYTE4))
    (ILESSP BYTE4 128))
    (ERROR "INVALID UTF8 SEQUENCE" (LIST BYTE1 BYTE2 BYTE3 BYTE4)))
  (SETQ COUNT 4)
  (LOGOR (LLSH (LOADBYTE BYTE1 0 3)
    18)
    (LLSH (LOADBYTE BYTE2 0 6)
    12)
    (LLSH (LOADBYTE BYTE3 0 6)
    6)
    (LOADBYTE BYTE4 0 6))
  (CL:WHEN (FIXP CODE)
    (CL:UNLESS RAW
      (SETQ CODE (UNICODE.TRANSLATE (UNICODE.SMALLP (UNICODE.SMALLP CODE))
        *UNICODETOMCCS*))))
  (CL:WHEN COUNTP (SETQ *BYTECOUNTER* COUNT))
  CODE])
; Could be ENDOFSTREAMOP NIL, return NIL

```

(UTF8.PEEKCCODEFN
[LAMBDA (STREAM NOERROR RAW)

; Edited 22-Feb-2026 14:12 by rmk
; Edited 23-Oct-2025 08:26 by rmk
; Edited 24-Apr-2025 15:44 by rmk
; Edited 2-Feb-2024 11:48 by rmk
; Edited 14-Jun-2021 22:53 by rmk:

;; Modeled this after \EUCPEEK on LLREAD. In the multi-byte (non-ASCII) case, backs the file pointer to the beginning by the proper number of
 ;; \BACKFILEPTRs, and returns a count of 0. Returns NIL if NOERROR and either invalid UTF8 or end of file.
 ;; Could be that the caller takes care of backing up the file position if the number of binned-bytes is returned.
 ;; Do not do UNICODE to MCCS translation if RAW

(PROG (BYTE1 BYTE2 BYTE3 BYTE4 CODE)
 (SETQ BYTE1 (\PEEKBIN STREAM NOERROR)))

;; Distinguish on header bytex

(CL:UNLESS BYTE1 (RETURN NIL))
 [if (ILEQ BYTE1 127)

then ; Test first: Ascii is the common case. No need to back up, since we peeked.

(SETQ CODE BYTE1)

elseif [ILEQ BYTE1 223 ; 2 bytes

(BIN STREAM)

(SETQ BYTE2 (\PEEKBIN STREAM NOERROR))

(\BACKFILEPTR STREAM)

(if (AND BYTE2 (IGEQ BYTE2 128))

then (SETQ CODE (LOGOR (LLSH (LOADBYTE BYTE1 0 5)

6)

(LOADBYTE BYTE2 0 6)))

elseif NOERROR

else (ERROR "INVALID UTF8 SEQUENCE" (LIST BYTE1 BYTE2])

elseif (ILEQ BYTE1 239)

then ; 3 bytes

(BIN STREAM)

(CL:UNLESS (AND (SETQ BYTE2 (\PEEKBIN STREAM NOERROR))

(IGEQ BYTE2 128))

(\BACKFILEPTR STREAM)

(OR NOERROR (ERROR "INVALID UTF8 SEQUENCE" (LIST BYTE1 BYTE2)))

(RETURN CODE))

(BIN STREAM)

(SETQ BYTE3 (\PEEKBIN STREAM NOERROR)) ; PEEK the last, no need to back it up

(\BACKFILEPTR STREAM)

(\BACKFILEPTR STREAM)

(if (AND BYTE3 (IGEQ BYTE3 128))

then (SETQ CODE (LOGOR (LLSH (LOADBYTE BYTE1 0 4)

12)

(LLSH (LOADBYTE BYTE2 0 6)

6)

(LOADBYTE BYTE3 0 6)))

elseif NOERROR

else (ERROR "INVALID UTF8 SEQUENCE" (LIST BYTE1 BYTE2 BYTE3)))

else ; 4 bytes

(BIN STREAM)

(CL:UNLESS (AND (SETQ BYTE2 (\PEEKBIN STREAM NOERROR))

(IGEQ BYTE2 128))

(\BACKFILEPTR STREAM)

(OR NOERROR (ERROR "INVALID UTF8 SEQUENCE" (LIST BYTE1 BYTE2)))

(RETURN CODE))

(BIN STREAM)

(CL:UNLESS (AND (SETQ BYTE3 (\PEEKBIN STREAM NOERROR))

(IGEQ BYTE3 128))

(\BACKFILEPTR STREAM)

(\BACKFILEPTR STREAM)

(OR NOERROR (ERROR "INVALID UTF8 SEQUENCE" (LIST BYTE1 BYTE2 BYTE3)))

(RETURN CODE))

(BIN STREAM)

(SETQ BYTE4 (\PEEKBIN STREAM NOERROR))

(\BACKFILEPTR STREAM)

(\BACKFILEPTR STREAM)

(\BACKFILEPTR STREAM)

(if (AND BYTE4 (IGEQ BYTE4 128))

then (SETQ CODE (LOGOR (LLSH (LOADBYTE BYTE1 0 3)

18)

(LLSH (LOADBYTE BYTE2 0 6)

12)

```

        (LLSH (LOADBYTE BYTE3 0 6)
         6)
        (LOADBYTE BYTE4 0 6)))
    elseif NOERROR
    else (ERROR "INVALID UTF8 SEQUENCE" (LIST BYTE1 BYTE2 BYTE3 BYTE4)
    (CL:WHEN (AND CODE (NOT RAW))
    (SETQ CODE (UNICODE.TRANSLATE (UNICODE.SMALLP (UNICODE.SMALLP CODE))
    *UNICODEMCCS*)))
    (RETURN CODE])

```

```

(\UTF8.BACKCCODEFN
 [LAMBDA (STREAM COUNTP RAW)

```

; Edited 19-Jul-2022 15:30 by rmk
; Edited 6-Aug-2021 16:04 by rmk:

:: \BACKFILEPTR is NIL at beginning of FILE. Presumably a little bit more efficient if we decoded the UTF8 bytes backwards and didn't do the
:: peek, but probably not worth the complexity.

```

(DECLARE (USEDFREE *BYTECOUNTER*))
(BIND (C ← 0) WHILE (IF (\BACKFILEPTR STREAM)
    THEN (ADD C -1)
    (EQ 2 (LRSH (\PEEKBIN STREAM)
    6))
    ELSE (CL:WHEN COUNTP (SETQ *BYTECOUNTER* C)
    (RETURN NIL))
    REPEATUNTIL (EQ C -4) FINALLY (CL:WHEN COUNTP (SETQ *BYTECOUNTER* C)
    (RETURN (UTF8.PEEKCCODEFN STREAM NIL RAW))

```

)

(DEFINEQ

```

(UTF16BE.OUTCHARFN
 [LAMBDA (STREAM CHARCODE RAW)

```

; Edited 24-Apr-2025 15:44 by rmk
; Edited 31-Jan-2024 00:32 by rmk
; Edited 8-Aug-2021 13:09 by rmk:
; Edited 30-Jan-2020 23:08 by rmk:

:: PRINT UTF16 sequence for CHARCODE. Do not do MCCS to UNICODE translation if RAW.

:: Not sure about EOL conversion if truly "raw"

```

(IF (EQ CHARCODE (CHARCODE EOL))
    THEN (FREPLACE (STREAM CHARPOSITION) OF STREAM WITH 0)
    ELSE (CHANGE (FFETCH (STREAM CHARPOSITION) OF STREAM)
    (IPLUS16 1 DATUM)))
(FOR C INSIDE (CL:IF RAW
    CHARCODE
    (UNICODE.TRANSLATE CHARCODE *MCCSTOUNICODE*))
    DO (\WOUT STREAM C))

```

```

(UTF16BE.INCCODEFN
 [LAMBDA (STREAM COUNTP RAW)

```

; Edited 19-Feb-2026 11:33 by rmk
; Edited 24-Apr-2025 15:45 by rmk
; Edited 10-Mar-2024 12:00 by rmk
; Edited 6-Aug-2021 16:05 by rmk:

:: Do not do UNICODE to MCCS translation if RAW. Test for SMALLPin case of funky EOF behavior

```

(DECLARE (USEDFREE *BYTECOUNTER*))
(LET (CODE BYTE1 BYTE2 COUNT)
    (IF [AND (SMALLP (SETQ BYTE1 (\BIN STREAM))
    (SMALLP (SETQ BYTE2 (\BIN STREAM))
    THEN (SETQ COUNT 2)
    (SETQ CODE (create WORD
    HIBYTE ← (\BIN STREAM)
    LOBYTE ← (\BIN STREAM))))
    (CL:WHEN (FIXP CODE) ; Funky ENDOFSTREAMOP ?
    (CL:UNLESS RAW
    (SETQ CODE (UNICODE.TRANSLATE CODE *UNICODEMCCS*))))
    (CL:WHEN COUNTP (SETQ *BYTECOUNTER* COUNT))

```

CODE
ELSE (ERROR "ODD NUMBER OF BYTES IN UTF16 FILE" STREAM))

(UTF16BE.PEEKCCODEFN
[LAMBDA (STREAM NOERROR RAW)

; Edited 24-Apr-2025 15:45 by rmk
; Edited 10-Mar-2024 12:01 by rmk
; Edited 14-Jun-2021 22:58 by rmk:

:: Could be that the caller takes care of backing up the file position if the number of binned-bytes is returned.
:: Do not do UNICODE to MCCS translation if RAW

(LET (BYTE1 BYTE2 CODE)
(SETQ BYTE1 (\PEEKBIN STREAM NOERROR))
(IF BYTE1
THEN (\BIN STREAM)
(SETQ BYTE2 (\PEEKBIN STREAM NOERROR))
(\BACKFILEPTR STREAM)
(IF BYTE2
THEN (SETQ CODE (create WORD
HIBYTE ← BYTE1
LOBYTE ← BYTE2))
(CL:IF RAW
CODE
(UNICODE.TRANSLATE CODE *UNICODEMCCS*))
ELSEIF NOERROR
THEN NIL)
ELSEIF NOERROR
THEN NIL
ELSE (ERROR "INVALID UTF16 CHARACTER" (LIST BYTE1 BYTE2))

(\UTF16BE.BACKCCODEFN
[LAMBDA (STREAM COUNTP RAW)

; Edited 24-Apr-2025 15:28 by rmk
; Edited 10-Mar-2024 12:02 by rmk
; Edited 19-Jul-2022 15:14 by rmk
; Edited 6-Aug-2021 16:07 by rmk:

:: \BACKFILEPTR is NIL at beginning of FILE, do nothing.

(DECLARE (USEDFREE *BYTECOUNTER*))
(CL:WHEN (\BACKFILEPTR STREAM)
(LET (CODE (BYTE2 (\PEEKBIN STREAM)))
(IF (\BACKFILEPTR STREAM)
THEN (CL:WHEN COUNTP (SETQ *BYTECOUNTER* -2))
(SETQ CODE (create WORD
HIBYTE ← (\PEEKBIN STREAM)
LOBYTE ← BYTE2))
(CL:IF RAW
CODE
(UNICODE.TRANSLATE CODE *UNICODEMCCS*))
ELSEIF COUNTP
THEN (SETQ *BYTECOUNTER* -1)
NIL))))

)

(DEFINEQ

(UTF16LE.OUTCHARFN
[LAMBDA (STREAM CHARCODE RAW)

; Edited 24-Apr-2025 15:45 by rmk
; Edited 10-Mar-2024 11:58 by rmk
; Edited 8-Aug-2021 13:09 by rmk:
; Edited 30-Jan-2020 23:08 by rmk:

:: PRINT UTF16 sequence for CHARCODE. Do not do MCCS to UNICODE translation if RAW.
:: Not sure about EOL conversion if truly "raw"

(IF (EQ CHARCODE (CHARCODE EOL))
THEN (FREPLACE (STREAM CHARPOSITION) OF STREAM WITH 0)
ELSE (CHANGE (FFETCH (STREAM CHARPOSITION) OF STREAM)

```

      (IPLUS16 1 DATUM)))
    (FOR C INSIDE (CL:IF RAW
      CHARCODE
      (UNICODE.TRANSLATE CHARCODE *MCCSTOUNICODE*))
      DO (BOUT STREAM (fetch LOBYTE of CHARCODE))
        (BOUT STREAM (fetch HIBYTE of CHARCODE])

```

```

(UTF16LE.INCCODEFN
[LAMBDA (STREAM COUNTP RAW)
; Edited 24-Apr-2025 15:45 by rmk
; Edited 10-Mar-2024 12:03 by rmk
; Edited 6-Aug-2021 16:05 by rmk:

```

:: Do not do UNICODE to MCCS translation if RAW. Test for SMALLPin case of funky EOF behavior

```

(DECLARE (USEDFREE *BYTECOUNTER*))
(LET (CODE BYTE1 BYTE2 COUNT)
  (IF [AND (SMALLP (SETQ BYTE1 (\BIN STREAM)))
      (SMALLP (SETQ BYTE2 (\BIN STREAM))
      THEN (SETQ COUNT 2)
        (SETQ CODE (create WORD
          LOBYTE ← (\BIN STREAM)
          HIBYTE ← (\BIN STREAM)))
      (CL:UNLESS RAW
        (SETQ CODE (UNICODE.TRANSLATE CODE *UNICODETOGCC*))
      (CL:WHEN COUNTP (SETQ *BYTECOUNTER* COUNT))
      CODE
      ELSE (ERROR "ODD NUMBER OF BYTES IN UTF16 FILE" STREAM])

```

```

(UTF16LE.PEEKCCODEFN
[LAMBDA (STREAM NOERROR RAW)
; Edited 24-Apr-2025 15:46 by rmk
; Edited 10-Mar-2024 11:43 by rmk
; Edited 14-Jun-2021 22:58 by rmk:

```

:: Could be that the caller takes care of backing up the file position if the number of binned-bytes is returned.

:: Do not do UNICODE to MCCS translation if RAW

```

(LET (BYTE1 BYTE2 CODE)
  (SETQ BYTE1 (\PEEKBIN STREAM NOERROR))
  (IF BYTE1
    THEN (\BIN STREAM)
      (SETQ BYTE2 (\PEEKBIN STREAM NOERROR))
      (\BACKFILEPTR STREAM)
      (IF BYTE2
        THEN (SETQ CODE (LOGOR (LLSH BYTE2 8)
          BYTE1))
        (CL:IF RAW
          CODE
          (UNICODE.TRANSLATE CODE *UNICODETOGCC*))
        ELSEIF NOERROR
          THEN NIL)
      ELSEIF NOERROR
        THEN NIL
      ELSE (ERROR "INVALID UTF16 CHARACTER" (LIST BYTE1 BYTE2])

```

```

(\UTF16LE.BACKCCODEFN
[LAMBDA (STREAM COUNTP RAW)
; Edited 24-Apr-2025 15:28 by rmk
; Edited 10-Mar-2024 12:04 by rmk
; Edited 19-Jul-2022 15:14 by rmk
; Edited 6-Aug-2021 16:07 by rmk:

```

:: \BACKFILEPTR is NIL at beginning of FILE, do nothing.

```

(DECLARE (USEDFREE *BYTECOUNTER*))
(CL:WHEN (\BACKFILEPTR STREAM)
  (LET (CODE (BYTE2 (\PEEKBIN STREAM)))
    (IF (\BACKFILEPTR STREAM)
      THEN (CL:WHEN COUNTP (SETQ *BYTECOUNTER* -2))
      (SETQ CODE (create WORD

```

HIBYTE ← BYTE2
LOBYTE ← (\PEEKBIN STREAM))

(CL:IF RAW
CODE
(UNICODE.TRANSLATE CODE *UNICODETOMCCS*))
ELSEIF COUNTP
THEN (SETQ *BYTECOUNTER* -1
NIL)))]

)

(DEFINEQ

(READBOM

[LAMBDA (STREAM COUNTP)

; Edited 17-Jan-2025 11:29 by rmk
; Edited 11-Mar-2024 23:53 by rmk
; Edited 10-Mar-2024 13:01 by rmk

:: If COUNTP, this must be under a generic \INCCODE that binds *BYTECOUNTER*

:: Reads and decodes the BOM bytes. If BOM is present, the stream is left at the first following byte, otherwise the stream is reset to its position
:: on entry (presumably 0).

:: I used the UNHEXTRING constants so that the hex bytes are visible in the code, maybe there's another function that does that?

(DECLARE (USEDFREE *BYTECOUNTER*))
(SELECTC (\PEEKBIN STREAM T)
((HEXNUM? "EF")
(BIN STREAM)
(if (EQ (CONSTANT (HEXNUM? "BB"))
(\PEEKBIN STREAM T))
then (BIN STREAM)
(if (EQ (CONSTANT (HEXNUM? "BF"))
(\PEEKBIN STREAM T))
then (BIN STREAM)
(CL:WHEN COUNTP (add *BYTECOUNTER* 3))
:UTF-8
else (\BACKFILEPTR STREAM))
else (\BACKFILEPTR STREAM)))
((HEXNUM? "FE")
(BIN STREAM)
(if (EQ (CONSTANT (HEXNUM? "FF"))
(\PEEKBIN STREAM T))
then (BIN STREAM)
(CL:WHEN COUNTP (add *BYTECOUNTER* 2))
:UTF-16BE
else (\BACKFILEPTR STREAM)))
((HEXNUM? "FF")
(BIN STREAM)
(if (EQ (CONSTANT (HEXNUM? "FE"))
(\PEEKBIN STREAM T))
then (BIN STREAM)
(CL:WHEN COUNTP (add *BYTECOUNTER* 2))
:UTF-16LE
else (\BACKFILEPTR STREAM)))
NIL])

(WRITEBOM

[LAMBDA (STREAM FORMAT)

; Edited 17-Jan-2025 11:29 by rmk
; Edited 16-Mar-2024 20:53 by rmk
; Edited 11-Mar-2024 23:53 by rmk
; Edited 10-Mar-2024 13:01 by rmk

:: Writes a BOM that represents FORMAT (:UTF-8, :UTF16-BE, :UTF16-LE

(SELECTQ FORMAT
(:UTF-8 (BOUT STREAM (CONSTANT (HEXNUM? "EF")))
(BOUT STREAM (CONSTANT (HEXNUM? "BB")))
(BOUT STREAM (CONSTANT (HEXNUM? "BF"))))
(:UTF-16BE (BOUT STREAM (CONSTANT (HEXNUM? "FE")))
(BOUT STREAM (CONSTANT (HEXNUM? "FF"))))

(:UTF-16LE (BOUT STREAM (CONSTANT (HEXNUM? "FF")))
(BOUT STREAM (HEXNUM? "FE")))
NIL)

)

(DEFINEQ

(MAKE-UNICODE-FORMATS
[LAMBDA (EXTERNALEOL)

; Edited 23-Feb-2026 12:14 by rmk
; Edited 22-Feb-2026 09:14 by rmk
; Edited 5-Feb-2026 11:06 by rmk
; Edited 17-Jan-2025 18:38 by rmk
; Edited 10-Mar-2024 11:55 by rmk
; Edited 8-Dec-2023 15:19 by rmk
; Edited 19-Jul-2022 15:36 by rmk
; Edited 6-Aug-2021 16:08 by rmk:

:: RAW formats do not do MCCS/Unicode translation, just deal with the byte encoding.

:: The EXTERNALEOL specifies the EOLCONVENTION of the stream, particularly to produce output files with the desired convention. On input
:: the macro \CHECKEOLC (LLREAD) coerces only that coding to the internal EOL, which is a mistake.

(MAKE-EXTERNALFORMAT :UTF-8 (FUNCTION UTF8.INCCODEFN)
(FUNCTION UTF8.PEEKCCODEFN)
(FUNCTION \UTF8.BACKCCODEFN)
(FUNCTION UTF8.OUTCHARFN)
NIL
'LF NIL (FUNCTION MTOUTF8STRING)
NIL
(FUNCTION NILL)
(FUNCTION UTF8TOMSTRING))

:: Don't remember what this is for:

(INSTALL.EXTERNALFORMAT (create EXTERNALFORMAT using (FIND-FORMAT :UTF-8)
NAME ← :UTF-8-SLUG OUTCHARFN ←
(FUNCTION UTF8.SLUG.OUTCHARFN)))

(MAKE-EXTERNALFORMAT :UTF-8-RAW [FUNCTION (LAMBDA (STREAM COUNTP)
(UTF8.INCCODEFN STREAM COUNTP T]

[FUNCTION (LAMBDA (STREAM NOERROR)
(UTF8.PEEKCCODEFN STREAM NOERROR T]
[FUNCTION (LAMBDA (STREAM COUNTP)
(\UTF8.BACKCCODEFN STREAM COUNTP T]
[FUNCTION (LAMBDA (STREAM CHARCODE)
(UTF8.OUTCHARFN STREAM CHARCODE T]
NIL EXTERNALEOL NIL NIL NIL (FUNCTION NILL))

(MAKE-EXTERNALFORMAT :UTF-16BE (FUNCTION UTF16BE.INCCODEFN)
(FUNCTION UTF16BE.PEEKCCODEFN)
(FUNCTION \UTF16BE.BACKCCODEFN)
(FUNCTION UTF16BE.OUTCHARFN)
NIL EXTERNALEOL NIL NIL NIL (FUNCTION NILL))

(MAKE-EXTERNALFORMAT :UTF-16BE-RAW [FUNCTION (LAMBDA (STREAM COUNTP)
(UTF16BE.INCCODEFN STREAM COUNTP T]

[FUNCTION (LAMBDA (STREAM NOERROR)
(UTF16BE.PEEKCCODEFN STREAM NOERROR T]
[FUNCTION (LAMBDA (STREAM COUNTP)
(\UTF16BE.BACKCCODEFN STREAM COUNTP T]
[FUNCTION (LAMBDA (STREAM CHARCODE)
(UTF16BE.OUTCHARFN STREAM CHARCODE T]
NIL EXTERNALEOL NIL NIL NIL (FUNCTION NILL))

(MAKE-EXTERNALFORMAT :UTF-16LE (FUNCTION UTF16LE.INCCODEFN)
(FUNCTION UTF16LE.PEEKCCODEFN)
(FUNCTION \UTF16LE.BACKCCODEFN)
(FUNCTION UTF16LE.OUTCHARFN)
NIL EXTERNALEOL NIL NIL NIL (FUNCTION NILL))

(MAKE-EXTERNALFORMAT :UTF-16LE-RAW [FUNCTION (LAMBDA (STREAM COUNTP)
(UTF16LE.INCCODEFN STREAM COUNTP T]

[FUNCTION (LAMBDA (STREAM NOERROR)
(UTF16LE.PEEKCCODEFN STREAM NOERROR T]
[FUNCTION (LAMBDA (STREAM COUNTP)

(\UTF16LE.BACKCCODEFN STREAM COUNTP T]
[FUNCTION (LAMBDA (STREAM CHARCODE)
(UTF16LE.OUTCHARFN STREAM CHARCODE T]
NIL EXTERNALEOL NIL NIL NIL (FUNCTION NILL])

)

(DECLARE%: DONTEVAL@LOAD DOCOPY

(MAKE-UNICODE-FORMATS 'LF)

)

(DEFINEQ

(UTF8.BINCODE
[LAMBDA (STREAM RAW)

; Edited 24-Apr-2025 15:28 by rmk
; Edited 4-Feb-2024 01:06 by rmk
; Edited 1-Feb-2024 11:21 by rmk
; Edited 28-Dec-2023 13:32 by rmk
; Edited 6-Aug-2021 16:02 by rmk:
; Edited 6-Aug-2020 17:13 by rmk:

:: Decodes a UTF8 character code by binning from STREAM
:: The validity of STREAM is guaranteed by the caller (presumably TEDIT), we aren't testing here for the validity of the trailing bytes.
:: This doesn't do EOL conversion or translation, unlike UTF8.INCCODEFN.

(LET ((BYTE1 (BIN STREAM))
CODE)
[SETQ CODE (if (ILEQ BYTE1 127)
then BYTE1
elseif (ILEQ BYTE1 223)
then ; 2 bytes
(LOGOR (LLSH (LOADBYTE BYTE1 0 5)
6)
(LOADBYTE (BIN STREAM)
0 6))
elseif (ILEQ BYTE1 239)
then ; 3 bytes
(LOGOR (LLSH (LOADBYTE BYTE1 0 4)
12)
(LLSH (LOADBYTE (BIN STREAM)
0 6)
6)
(LOADBYTE (BIN STREAM)
0 6))
else ; 4 bytes
(LOGOR (LLSH (LOADBYTE BYTE1 0 3)
18)
(LLSH (LOADBYTE (BIN STREAM)
0 6)
12)
(LLSH (LOADBYTE (BIN STREAM)
0 6)
6)
(LOADBYTE (BIN STREAM)
0 6))
)
(CL:IF RAW
CODE
(UNICODE.TRANSLATE CODE *UNICODETOMCCS*)))])

(\UTF8.FETCHCODE
[LAMBDA (CODESIZE BUFFER BYTEOFFSET)

; Edited 28-Dec-2023 13:32 by rmk
; Edited 6-Aug-2021 16:02 by rmk:
; Edited 6-Aug-2020 17:13 by rmk:

:: Decodes a UTF8 byte sequence of size CODESIZE in BUFFER starting at BYTEOFFSET.
:: The validity of the thesize, buffer, and offset are guaranteed by the caller.

```

(LET ((BYTE1 (\GETBASEBYTE BUFFER BYTEOFFSET))
      (SELECTQ CODESIZE
        (2 (SETQ BYTE2 (\UTF8.GETBASEBYTE BUFFER (IPLUS 1 BYTEOFFSET)))
           (LOGOR (LLSH (LOADBYTE BYTE1 0 5)
                     6)
                  (LOADBYTE BYTE2 0 6)))
        (3 (SETQ BYTE2 (\UTF8.GETBASEBYTE BUFFER (IPLUS 1 BYTEOFFSET)))
           (SETQ BYTE3 (\UTF8.GETBASEBYTE BUFFER (IPLUS 2 BYTEOFFSET)))
           (LOGOR (LLSH (LOADBYTE BYTE1 0 4)
                     12)
                  (LLSH (LOADBYTE BYTE2 0 6)
                     6)
                  (LOADBYTE BYTE3 0 6)))
        (4 (SETQ BYTE2 (\UTF8.GETBASEBYTE BUFFER (IPLUS 1 BYTEOFFSET)))
           (SETQ BYTE3 (\UTF8.GETBASEBYTE BUFFER (IPLUS 2 BYTEOFFSET)))
           (SETQ BYTE4 (\UTF8.GETBASEBYTE BUFFER (IPLUS 3 BYTEOFFSET)))
           (LOGOR (LLSH (LOADBYTE BYTE1 0 3)
                     18)
                  (LLSH (LOADBYTE BYTE2 0 6)
                     12)
                  (LLSH (LOADBYTE BYTE3 0 6)
                     6)
                  (LOADBYTE BYTE4 0 6)))
        (1 BYTE1)
        (SHOULDNT]))
)

```

(DEFINEQ

**(UTF8.VALIDATE
[LAMBDA (STREAM BYTE)**

; Edited 2-Feb-2024 12:03 by rmk
; Edited 28-Dec-2023 11:57 by rmk
; Edited 6-Aug-2021 16:02 by rmk:
; Edited 6-Aug-2020 17:13 by rmk:

:: Returns the codesize if the bytes starting at STREAM's current position form a valid UTF-8 sequence.
:: If BYTE is provided, it is interpreted as the just-read header byte with the stream is positioned just after it.
:: Test for smallp because the stream's End-of-file operation may suppress the error--otherwise an error will happen if the streams runs out of
:: necessary bytes.
:: For valid sequences, returns the same value as UTF8-SIZE-FROM-BYTE1, but this reads/validates the rest of the bytes. On a non-NIL return
:: the stream is positioned before the header byte of the next putative code. The stream position is uncertain on a NIL return.
::
:: Distinguish on the header byte BYTE. Not SMALLP presumably if ENDOFSTREAMOP did something unusual.

(CL:UNLESS BYTE

(SETQ BYTE (BIN STREAM)))

(CL:WHEN (SMALLP BYTE)

(if (ILEQ BYTE 127)

then 1

elseif (ILEQ BYTE 223)

then

(CL:UNLESS (OR [NOT (SMALLP (SETQ BYTE (BIN STREAM])
(ILESSP BYTE 128))

2)

elseif (ILEQ BYTE 239)

then

(CL:UNLESS (OR (OR [NOT (SMALLP (SETQ BYTE (BIN STREAM])
(ILESSP BYTE 128))
(OR [NOT (SMALLP (SETQ BYTE (BIN STREAM])
(ILESSP BYTE 128)))

3)

else

(CL:UNLESS (OR (OR [NOT (SMALLP (SETQ BYTE (BIN STREAM])
(ILESSP BYTE 128))
(OR [NOT (SMALLP (SETQ BYTE (BIN STREAM])
(ILESSP BYTE 128))

; 2 bytes

; 3 bytes

; 4 bytes

(OR [NOT (SMALLP (SETQ BYTE (BIN STREAM]
(ILESSP BYTE 128)))
4)))]

(NUTF8-BYTE1-BYTES
[LAMBDA (BYTE1)

; Edited 3-Feb-2024 15:00 by rmk
; Edited 8-Jan-2024 10:57 by rmk
; Edited 28-Jun-2022 00:02 by rmk
; Edited 10-Aug-2020 12:35 by rmk:

:: Returns the number of bytes in a UTF8 code representation whose first byte is BYTEE1.

(IF (ILEQ BYTE1 127)
THEN 1
ELSEIF (ILEQ BYTE1 223)
THEN 2
ELSEIF (ILEQ BYTE1 239)
THEN 3
ELSE 4)

(NUTF8-CODE-BYTES
[LAMBDA (CODE)

; Edited 3-Feb-2024 14:42 by rmk
; Edited 8-Jan-2024 10:57 by rmk
; Edited 28-Jun-2022 00:02 by rmk
; Edited 10-Aug-2020 12:35 by rmk:

:: Returns the number of bytes needed to encode in UTF8 a number headed by BYTE.

(IF (ILESSP CODE 128)
THEN 1
ELSEIF (ILESSP CODE 2048)
THEN 2 ; x800
ELSEIF (ILESSP CODE 65536)
THEN 3 ; x10000
ELSEIF (ILESSP CODE 2097152)
THEN 4 ; x200000
ELSE (ERROR "INVALID UTF-8 CODE"))

(NUTF8-STRING-BYTES
[LAMBDA (STRING RAW)

; Edited 2-Sep-2025 10:40 by rmk
; Edited 24-Apr-2025 15:37 by rmk
; Edited 3-Feb-2024 21:32 by rmk
; Edited 10-Aug-2020 09:06 by rmk:

:: Returns the number of bytes it would take to represent STRING in UTF8, assuming it is an MCCS string unless RAWFLG.

(for I C from 1 while (SETQ C (NTHCHARCODE STRING I)) sum (NUTF8-CODE-BYTES (CL:IF RAW
C
(MTOUCODE C))))

(N-MCHARS
[LAMBDA (UTF8STRING)

; Edited 9-Sep-2025 08:35 by rmk

:: Returns the number of MCCS characters coded in UTF8STRING

(for I B from 1 while (SETQ B (NTHCHARCODE UTF8STRING I)) by (NUTF8-BYTE1-BYTES B) count T])

)

:: For MAKEINIT, before hashing--no need for XCCS

(DEFINEQ

(MTOUCODE
[LAMBDA (MCODE)

; Edited 22-Feb-2026 13:56 by rmk

(UNICODE.TRANSLATE MCODE *MCCSTOUNICODE*)

(UTOMCODE

[LAMBDA (UCODE)

**(UNICODE.TRANSLATE (UNICODE.SMALLP UCODE)
UNICODETOMCCS)**

; Edited 22-Feb-2026 13:57 by rmk

(MTOUCODE?

[LAMBDA (MCODE)

; Edited 22-Feb-2026 13:57 by rmk

:: Returns the Unix range-code(s) corresponding to MCODE if there are true mappings, otherwise NIL. Alternative codes are returned in a list,
:: the code itself is returned for a singleton.

(UNICODE.TRANSLATE MCODE *MCCSTOUNICODE* T T)

(UTOMCODE?

[LAMBDA (UCODE)

; Edited 22-Feb-2026 13:58 by rmk

:: Returns the MCCS range-code(s) corresponding to UCODE if there are true mappings, otherwise NIL.

:: NOTE: Alternative codes are returned in a list, the code itself is returned for a singleton.

:: Canonicalize unicodes outside of the 16-bit plane

**(UNICODE.TRANSLATE (UNICODE.SMALLP UCODE)
UNICODETOMCCS T T)**

)

(DEFINEQ

(MTOUSTRING

[LAMBDA (MSTRING DESTRUCTIVE)

; Edited 2-Sep-2025 12:19 by rmk

; Edited 29-Apr-2025 12:01 by rmk

:: Converts MCCS codes in MSTRING to Unicodes.

**(for I MCODE (USTRING ← (CL:IF DESTRUCTIVE
MSTRING
(CONCAT MSTRING)))**

**from 1 while (SETQ MCODE (NTHCHARCODE MSTRING I)) do (RPLCHARCODE USTRING I (MTOUCODE MCODE))
finally (RETURN USTRING)]**

(UTOMSTRING

[LAMBDA (USTRING DESTRUCTIVE)

; Edited 2-Sep-2025 12:18 by rmk

; Edited 29-Apr-2025 12:00 by rmk

:: Converts Unicodes to MCCS codes in USTRING.

**(for I UCODE (MSTRING ← (CL:IF DESTRUCTIVE
USTRING
(CONCAT USTRING)))**

**from 1 while (SETQ UCODE (NTHCHARCODE USTRING I)) do (RPLCHARCODE MSTRING I (UTOMCODE UCODE))
finally (RETURN MSTRING)]**

(MTOUTF8STRING

[LAMBDA (MSTRING)

; Edited 31-Jan-2026 19:15 by rmk

; Edited 9-Sep-2025 07:51 by rmk

; Edited 4-Sep-2025 15:13 by rmk

; Edited 2-Sep-2025 11:12 by rmk

; Edited 24-Apr-2025 15:37 by rmk

; Edited 3-Feb-2024 14:55 by rmk

; Edited 10-Aug-2020 21:42 by rmk:

:: Produces a string that contains the UTF8 bytes that represent the characters in MSTRING.

:: The resulting string will not be directly interpretable inside Medley.

**(if (if (STRINGP MSTRING)
then [OR (ffetch (STRINGP FATSTRINGP) of MSTRING)**

```

    (thereis C instring MSTRING suchthat (OR (IGEQ C 128)
                                              (NEQ C (MTOUCODE C]
elseif (LITATOM MSTRING)
  then [OR (ffetch (LITATOM FATPNAMEP) of MSTRING)
          (thereis C inatom MSTRING suchthat (OR (IGEQ C 128)
                                                  (NEQ C (MTOUCODE C]
else T)
then (LET [(USTR (ALLOCSTRING (NUTF8-STRING-BYTES MSTRING)
  (for I UCODE MCODE (SINDEX ← 0) from 1 while (SETQ MCODE (NTHCHARCODE MSTRING I))
    do (SETQ UCODE (MTOUCODE MCODE))
      (if (ILESSP UCODE 128)
        then (RPLCHARCODE USTR (ADD SINDEX 1)
              UCODE)
        elseif (ILESSP UCODE 2048)
          then ;x800
              (RPLCHARCODE USTR (ADD SINDEX 1)
                (LOGOR (LLSH 3 6)
                       (LRSH UCODE 6)))
              (RPLCHARCODE USTR (ADD SINDEX 1)
                (LOGOR (LLSH 2 6)
                       (LOADBYTE UCODE 0 6)))
        elseif (ILESSP UCODE 65536)
          then ;x10000
              (RPLCHARCODE USTR (ADD SINDEX 1)
                (LOGOR (LLSH 7 5)
                       (LRSH UCODE 12)))
              (RPLCHARCODE USTR (ADD SINDEX 1)
                (LOGOR (LLSH 2 6)
                       (LOADBYTE UCODE 6 6)))
              (RPLCHARCODE USTR (ADD SINDEX 1)
                (LOGOR (LLSH 2 6)
                       (LOADBYTE UCODE 0 6)))
        elseif (ILESSP UCODE 2097152)
          then ;x200000
              (RPLCHARCODE USTR (ADD SINDEX 1)
                (LOGOR (LLSH 15 4)
                       (LRSH UCODE 18)))
              (RPLCHARCODE USTR (ADD SINDEX 1)
                (LOGOR (LLSH 2 6)
                       (LOADBYTE UCODE 12 6)))
              (RPLCHARCODE USTR (ADD SINDEX 1)
                (LOGOR (LLSH 2 6)
                       (LOADBYTE UCODE 6 6)))
              (RPLCHARCODE USTR (ADD SINDEX 1)
                (LOGOR (LLSH 2 6)
                       (LOADBYTE UCODE 0 6)))
        else (SHOULDNT)))
    USTR)
else MSTRING])

```

(UTF8TOMSTRING
[LAMBDA (UTF8STRING)

; Edited 22-Oct-2025 22:00 by rmk
; Edited 16-Oct-2025 14:39 by rmk
; Edited 9-Sep-2025 08:59 by rmk

```

(CL:UNLESS (OR (STRINGP UTF8STRING)
               (LITATOM UTF8STRING))
  (SETQ UTF8STRING (MKSTRING UTF8STRING)))
(CL:WHEN (ffetch (STRINGP FATSTRINGP) of UTF8STRING)
  (ILLEGAL.ARG UTF8STRING))
(LET* ((NMCHARS (N-MCHARS UTF8STRING))
       (MSTRING (ALLOCSTRING NMCHARS)))
  [for M NBYTES BYTE1 (BASE ← (ffetch (STRINGP BASE) of UTF8STRING)) from 1 to NMCHARS as OFFSET
    from (fetch (STRINGP OFFST) of MSTRING) by NBYTES do (SETQ BYTE1 (GETBASEBYTE BASE OFFSET))
              (SETQ NBYTES (NUTF8-BYTE1-BYTES BYTE1))
              (RPLCHARCODE MSTRING M (UTOMCODE (
\UTF8.FETCHCODE

```

NBYTES

MSTRING])

)

:: XCCS is not so interesting in the loadup

(DEFINEQ

(XTOUCODE
[LAMBDA (XCODE)

; Edited 4-Sep-2025 15:09 by rmk
; Edited 24-May-2025 23:16 by rmk
; Edited 24-Apr-2025 15:27 by rmk
; Edited 9-Aug-2020 09:04 by rmk:

(UNICODE.TRANSLATE (XTOMCODE XCODE)
MCCSTOUNICODE)

(UTOXCODE
[LAMBDA (UNICODE)

; Edited 24-May-2025 23:17 by rmk
; Edited 24-Apr-2025 15:28 by rmk
; Edited 16-Jan-2025 23:46 by rmk
; Edited 9-Aug-2020 09:04 by rmk:

(MTOXCODE (UNICODE.TRANSLATE UNICODE *UNICODETOMCCS*))

(XTOUCODE?
[LAMBDA (XCCSCODE)

; Edited 24-May-2025 23:18 by rmk
; Edited 24-Apr-2025 15:27 by rmk
; Edited 20-Jan-2025 20:38 by rmk
; Edited 18-Jan-2025 11:44 by rmk
; Edited 15-Jan-2025 19:51 by rmk
; Edited 14-Jan-2025 13:14 by rmk
; Edited 9-Aug-2020 09:04 by rmk:

:: Returns the Unix range-code(s) corresponding to XCCSCODE if there are true mappings, otherwise NIL. Alternative codes are returned in a list, the code itself is returned for a singleton.

(UNICODE.TRANSLATE (XTOMCODE XCCSCODE)
MCCSTOUNICODE T T])

(UTOXCODE?
[LAMBDA (UNICODE)

; Edited 24-May-2025 23:19 by rmk
; Edited 24-Apr-2025 15:28 by rmk
; Edited 19-Jan-2025 21:14 by rmk
; Edited 18-Jan-2025 11:46 by rmk
; Edited 15-Jan-2025 19:51 by rmk
; Edited 14-Jan-2025 13:14 by rmk
; Edited 9-Aug-2020 09:04 by rmk:

:: Returns the XCCS range-code(s) corresponding to UNICODE if there are true mappings, otherwise NIL.

:: NOTE: Alternative codes are returned in a list, the code itself is returned for a singleton.

(MTOXCODE (UNICODE.TRANSLATE UNICODE *UNICODETOMCCS* T T])

(XTOUSTRING
[LAMBDA (XSTRING DESTRUCTIVE)

; Edited 2-Sep-2025 12:00 by rmk
; Edited 29-Apr-2025 12:01 by rmk

:: Converts XCCS codes in XSTRING to Unicodes.

(for I UCODE XCODE (USTRING ← (CL:IF DESTRUCTIVE
XSTRING
(CONCAT XSTRING)))

from 1 while (SETQ XCODE (NTHCHARCODE XSTRING I)) do (RPLCHARCODE USTRING I (XTOUCODE XCODE))
finally (RETURN USTRING])

**(UTOXSTRING
[LAMBDA (USTRING DESTRUCTIVE)**

; Edited 2-Sep-2025 11:54 by rmk
; Edited 29-Apr-2025 12:00 by rmk

;; Converts Unicodes in USTRING to XCCS codes.

```
(for I XCODE UCODE (XSTRING ← (CL:IF DESTRUCTIVE
                                USTRING
                                (CONCAT USTRING)))
  from 1 while (SETQ UCODE (NTHCHARCODE USTRING I)) unless (EQ UCODE (SETQ XCODE (UTOXCODE UCODE)))
  do (RPLCHARCODE XSTRING I XCODE) finally (RETURN XSTRING))
```

**(XTOUTF8STRING
[LAMBDA (XSTRING)**

; Edited 4-Sep-2025 18:37 by rmk
; Edited 2-Sep-2025 11:37 by rmk
; Edited 29-Apr-2025 12:53 by rmk
; Edited 24-Apr-2025 15:42 by rmk
; Edited 3-Feb-2024 14:55 by rmk
; Edited 10-Aug-2020 21:42 by rmk:

;; Produces a string that contains the UTF8 bytes that represent the characters in XSTRING. Applies the

;; The resulting string will not be interpretable inside Medley.

```
(for I C (MSTRING ← (CONCAT XSTRING)) from 1 while (SETQ C (NTHCHARCODE XSTRING I)) do (RPLCHARCODE
                                                                                          MSTRING I (
                                                                                          XTOMCODE
                                                                                          C))
  finally (RETURN (MTOUTF8STRING MSTRING))
```

)

(DEFINEQ

**(MERGE-UNICODE-TRANSLATION-TABLES
[LAMBDA (INVERSE MAPPING TABLE INVERSESETABLE)**

; Edited 21-Feb-2026 23:52 by rmk
; Edited 11-Oct-2025 10:24 by rmk
; Edited 24-Apr-2025 15:28 by rmk
; Edited 1-Feb-2025 21:42 by rmk
; Edited 26-Jan-2025 12:58 by rmk
; Edited 22-Jan-2025 08:20 by rmk
; Edited 19-Jan-2025 15:58 by rmk
; Edited 18-Jan-2025 11:49 by rmk
; Edited 27-Mar-2024 12:10 by rmk
; Edited 3-Feb-2024 12:46 by rmk
; Edited 31-Jan-2024 10:06 by rmk

;; MAPPINGS is a list of pairs that map domain codes to range codes. TABLE and INVERSESETABLE default to *MCCSTOUNICODE*
;; *UNICODETOMCCS* respectively.

```
(CL:UNLESS TABLE
  [SETQ TABLE (OR *MCCSTOUNICODE* (SETQ *MCCSTOUNICODE* (HASHARRAY (LENGTH MAPPING))
                                                                    ]))
(CL:UNLESS INVERSESETABLE
  [SETQ INVERSESETABLE (OR *UNICODETOMCCS* (SETQ *UNICODETOMCCS* (HASHARRAY (LENGTH
                                                                                      MAPPING
                                                                                      ]))
                                                                    ]))
(for M D R OLDR in MAPPING first (CL:IF INVERSE (swap TABLE INVERSESETABLE)) everytime (SETQ D (CAR M))
                                     (SETQ R (CADR M))
```

;; We don't do combiners, but we are
;; allowing non-SMALLP's

```
unless (OR (LISTP D)
           (LISTP R))
```

do ;; The (CONS R OLDR) deals with alternatives: (U X1) (U X2) => (U (X1 X2)), lowest code first. Those are only possible in the U-to-X
;; direction when the tables contain (X1 U) and (X2 U). There are no duplicates/alternative table entries in the X-to-U direction.

```
(SETQ OLDR (GETHASH D TABLE))
(CL:UNLESS (MEMB R OLDR)
  (PUTHASH D (SORT (CONS R OLDR))
            TABLE))
```

```

    (swap D R)
    (SETQ OLDR (GETHASH D INVERSESETABLE))
    (CL:UNLESS (MEMB R OLDR)
      (PUTHASH D (SORT (CONS R OLDR))
        INVERSESETABLE)))
    (LIST TABLE INVERSESETABLE])

```

```

(UNICODE.UNMAPPED
 [LAMBDA (CODE TABLE DONTFAKE)

```

```

; Edited 22-Feb-2026 16:27 by rmk
; Edited 24-Apr-2025 15:48 by rmk
; Edited 22-Jan-2025 08:19 by rmk
; Edited 19-Jan-2025 22:02 by rmk
; Edited 18-Jan-2025 12:02 by rmk
; Edited 2-Feb-2024 23:52 by rmk
; Edited 31-Jan-2024 10:07 by rmk
; Edited 11-Aug-2020 20:23 by rmk:

```

```

;; This is the fall-out when UNICODE.TRANSLATE determines that CODE has no mapping in TRANSLATION-TABLE. We assume that the
;; tables are complete, so unless DONTFAKE, we make up a mapping with the next unused private code in the code space.

```

```

;; The number of possible faked mappings is determined by the number of private-use Unicodes, since the MCCS character space is pretty
;; sparse. The codes don't have to come from the same part of the code space, and the NEXTCODES are saved in global variables. The last
;; available codes are constants.

```

```

;;

```

```

(CL:UNLESS DONTFAKE
  (PROG ((INVERSE (EQ TABLE *UNICODEMCCS*))
    RANGE HASH)
    (CL:WHEN (IEQP *NEXT-PRIVATE-MCCSCODE* LAST-PRIVATE-MCCSCODE)
      ; Same number of available codes both ways
      (ERROR "EXHAUSTED RANGE FOR UNMAPPED CODES"))
    (if INVERSE
      then (SETQ RANGE *NEXT-PRIVATE-MCCSCODE*)
            (add *NEXT-PRIVATE-MCCSCODE* 1)
      else (SETQ RANGE *NEXT-PRIVATE-UNICODE*)
            (add *NEXT-PRIVATE-UNICODE* 1))
    (MERGE-UNICODE-TRANSLATION-TABLES INVERSE (CONS (LIST CODE RANGE))))
  ;; CONS because of LIST convention so we can eventually distinguish combiners.
  (RETURN (CONS RANGE))))))

```

```

)

```

```

(DECLARE%: EVAL@COMPILE DONTCOPY

```

```

(DECLARE%: EVAL@COMPILE

```

```

(PUTPROPS UNICODE.TRANSLATE MACRO [OPENLAMBDA (CODE TRANSLATION-TABLE DONTFAKE RETURNALL)
  ; If RETURNALL and there are alternatives in the RANG, the list is returned. Otherwise just the first
  ; one if the fake flag allows
  (LET [(RANGE (OR (GETHASH CODE TRANSLATION-TABLE)
    (UNICODE.UNMAPPED CODE TRANSLATION-TABLE DONTFAKE)]
    (CL:WHEN RANGE
      (if (AND RETURNALL (CDR RANGE))
        then RANGE
        else (SETQ RANGE (CAR RANGE))
              (CL:IF DONTFAKE
                (TRUECODEP RANGE TRANSLATION-TABLE)
                RANGE))))))

```

```

(PUTPROPS \UTF8.GETBASEBYTE MACRO ((BASE OFFSET ERROR?)
  ; Fetches the OFFSET'th byte from BASE, checking for UTF-8
  ; validity if ERROR?
  (IF ERROR?
    THEN (LET ((BYTE (\GETBASEBYTE BASE OFFSET))
      (CL:WHEN (ILESSP BYTE 128)
        (ERROR "INVALID UTF8 BYTE" BYTE))
      BYTE)
      ELSE (\GETBASEBYTE BASE OFFSET))))

```

```

(PUTPROPS UNICODE.SMALLP MACRO [OPENLAMBDA (UNICODE)
  ; Cananonicalizes a large UNICODE for EQ hash-testing
  (OR (SMALLP UNICODE)
    (CAR (OR (MEMBER UNICODE *LARGEUNICODES*)
      (PUSH *LARGEUNICODES* UNICODE)]

```

(PUTPROPS TRUECODEP MACRO (OPENLAMBDA (RANGE TABLE)

;; Return NIL if RANGE is a fake range in TABLE, otherwise RANGE.

(CL:UNLESS (CL:IF (EQ TABLE *MCCSTOUNICODE*)
(AND (IGEQ RANGE FIRST-PRIVATE-UNICODE)
(ILEQ RANGE LAST-PRIVATE-UNICODE))
(AND (IGEQ RANGE FIRST-PRIVATE-MCCSCODE)
(ILEQ RANGE LAST-PRIVATE-MCCSCODE)))
RANGE)))

)
)

(ADDTOVAR *DEFAULT-EXTERNALFORMATS* (UNIX :UTF-8))

(RPAQ? *MCCSTOUNICODE* NIL)

(RPAQ? *UNICODETOMCCS* NIL)

(RPAQ? *LARGEUNICODES* NIL)

(DECLARE%: DOEVAL@COMPILE DONTCOPY

(GLOBALVARS *MCCSTOUNICODE* *UNICODETOMCCS* *LARGEUNICODES*)
)

;; There are 6400 private Unicodes in 25 256-code charsets. For MCCS we map to a contiguous region of unused/reserved--private isn't big enough

(DECLARE%: DOEVAL@COMPILE DONTCOPY

(GLOBALVARS *NEXT-PRIVATE-UNICODE* *NEXT-PRIVATE-MCCSCODE*)
)

(DECLARE%: EVAL@COMPILE DONTCOPY

(DECLARE%: EVAL@COMPILE

(RPAQ FIRST-PRIVATE-UNICODE (HEXNUM? "E000"))

(RPAQ LAST-PRIVATE-UNICODE (HEXNUM? "F8FF"))

(RPAQ FIRST-PRIVATE-MCCSCODE (CHARCODE "200,0"))

(RPAQ LAST-PRIVATE-MCCSCODE (CHARCODE "230,377"))

(CONSTANTS (FIRST-PRIVATE-UNICODE (HEXNUM? "E000"))
(LAST-PRIVATE-UNICODE (HEXNUM? "F8FF"))
(FIRST-PRIVATE-MCCSCODE (CHARCODE "200,0"))
(LAST-PRIVATE-MCCSCODE (CHARCODE "230,377")))
)

(DEFINEQ

(UNICODE-INIT

[LAMBDA NIL

; Edited 23-Feb-2026 10:14 by rmk

(SETQ *NEXT-PRIVATE-MCCSCODE* FIRST-PRIVATE-MCCSCODE)

(SETQ *NEXT-PRIVATE-UNICODE* FIRST-PRIVATE-UNICODE)]

)

(UNICODE-INIT)

(DECLARE%: EVAL@LOAD DONTCOPY

(FILESLOAD UNICODE-TABLES)

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[MERGE-UNICODE-TRANSLATION-TABLES NIL '((0 0)
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FUNCTION INDEX

MAKE-UNICODE-FORMATS	9	UTF8.OUTCHARFN	1
MERGE-UNICODE-TRANSLATION-TABLES	16	UTF8.PEEKCCODEFN	3
MTOUCODE	12	UTF8.SLUG.OUTCHARFN	2
MTOUCODE?	13	UTF8.VALIDATE	11
MTOUSTRING	13	UTF8TOMSTRING	14
MTOUTF8STRING	13	UTOMCODE	13
N-MCHARS	12	UTOMCODE?	13
NUTF8-BYTE1-BYTES	12	UTOMSTRING	13
NUTF8-CODE-BYTES	12	UTOXCODE	15
NUTF8-STRING-BYTES	12	UTOXCODE?	15
READBOM	8	UTOXSTRING	16
UNICODE-INIT	18	WRITEBOM	8
UNICODE.UNMAPPED	17	XTOUCODE	15
UTF16BE.INCCODEFN	5	XTOUCODE?	15
UTF16BE.OUTCHARFN	5	XTOUSTRING	15
UTF16BE.PEEKCCODEFN	6	XTOUTF8STRING	16
UTF16LE.INCCODEFN	7	\UTF16BE.BACKCCODEFN	6
UTF16LE.OUTCHARFN	6	\UTF16LE.BACKCCODEFN	7
UTF16LE.PEEKCCODEFN	7	\UTF8.BACKCCODEFN	5
UTF8.BINCODE	10	\UTF8.FETCHCODE	10
UTF8.INCCODEFN	2		

CONSTANT INDEX

FIRST-PRIVATE-MCCSCODE	18	LAST-PRIVATE-MCCSCODE	18
FIRST-PRIVATE-UNICODE	18	LAST-PRIVATE-UNICODE	18

VARIABLE INDEX

DEFAULT-EXTERNALFORMATS	18	*MCCSTOUNICODE*	18
LARGEUNICODES	18	*UNICODETOMCCS*	18

MACRO INDEX

TRUECODEP	18	UNICODE.TRANSLATE	17
UNICODE.SMALLP	17	\UTF8.GETBASEBYTE	17
