```
(RPAQQ BMENCODECOMS
       ((* User function)
        (FNS BITMAP.ENCODE)
        (* Internal functions)
        (FNS FILE.TO.BITMAP BITMAP.TO.FILE)
        (ADDVARS (BMC.MAKEFILE.OPTIONS NEW))
        (INITVARS (BMC.EXTENSION 'BMC)
               (BMC.BYTESPERLINE 64))
        (GLOBALVARS BMC.MAKEFILE.OPTIONS BMC.EXTENSION BMC.BYTESPERLINE)))
```

(* * User function)

```
(DEFINEQ
```

(BITMAP.ENCODE
```
  [LAMBDA (FILES)                                        (* cdl "19-Dec-86 14:43")
    (LET [FILENAME (FILENAMES (bind NAME for FILE inside FILES collect (PROG1 (SETQ NAME (NAMEFIELD FILE T))
                                                              (SETATOMVAL NAME (FILE.TO.BITMAP FILE)))]
          (DECLARE (SPECVARS FILENAME))
        [SETATOMVAL [FILECOMS (NAMEFIELD (SETQ FILENAME (PACKFILENAME 'EXTENSION BMC.EXTENSION 'BODY
                                                        (CAR FILENAMES]
               (BQUOTE ((BITMAPS ,@ FILENAMES)
                        (P (for FILE in (QUOTE , FILENAMES) do (PRIN1 "Restoring file ")
                               (PRIN1 (BITMAP.TO.FILE (EVALV FILE)
                                              FILE))
                               (TERPRI]
        (RESETVAR FONTCHANGEFLG NIL (MAKEFILE FILENAME BMC.MAKEFILE.OPTIONS))
)
```

(* * Internal functions)

```
(DEFINEQ
```

(FILE.TO.BITMAP
```
  [LAMBDA (FILE)                                         (* cdl "19-Dec-86 13:37")
    (DECLARE (SPECVARS FILE))
    (LET (STREAM)
         (DECLARE (SPECVARS STREAM))
         (RESETLST
             [RESETSAVE NIL (BQUOTE (CLOSEF? , (SETQ STREAM (OPENSTREAM FILE 'INPUT]
             (LET (BITMAP (LENGTH (GETFILEINFO STREAM 'LENGTH))
                          (BYTESPERLINE (QUOTIENT BMC.BYTESPERLINE 2)))
                  (with BITMAP (SETQ BITMAP (BITMAPCREATE (TIMES BYTESPERLINE BITSPERBYTE)
                                                    (QUOTIENT (PLUS (TIMES 2 BYTESPERWORD)
                                                            BYTESPERLINE LENGTH)
                                                         BYTESPERLINE)))
                       (\PUTBASE BITMAPBASE 0 LENGTH)
                       (\PUTBASE BITMAPBASE 1 (RSH LENGTH BITSPERWORD))
                       (\BINS STREAM BITMAPBASE (TIMES 2 BYTESPERWORD)
                              LENGTH))
                  BITMAP))])
```

(BITMAP.TO.FILE
```
  [LAMBDA (BITMAP FILE)                                  (* cdl "19-Dec-86 13:40")
    (DECLARE (SPECVARS BITMAP FILE))
    (LET (STREAM)
         (DECLARE (SPECVARS STREAM))
         (RESETLST
             [RESETSAVE NIL (BQUOTE (CLOSEF? , (SETQ STREAM (OPENSTREAM FILE 'OUTPUT]
             [with BITMAP (\DTEST BITMAP 'BITMAP)
                  (\BOUTS STREAM BITMAPBASE (TIMES 2 BYTESPERWORD)
                       (PLUS (\GETBASE BITMAPBASE 0)
                             (LSH (\GETBASE BITMAPBASE 1)
                                  BITSPERWORD]
             (FULLNAME STREAM))])
)
```

(ADDTOVAR BMC.MAKEFILE.OPTIONS NEW)

(RPAQ? BMC.EXTENSION 'BMC)

(RPAQ? **BMC.BYTESPERLINE** 64)

(DECLARE: DOEVAL@COMPILE DONTCOPY

(GLOBALVARS BMC.MAKEFILE.OPTIONS BMC.EXTENSION BMC.BYTESPERLINE)
)

(PUTPROPS **BMENCODE COPYRIGHT** ("Stanford University" 1986 1987))

FUNCTION INDEX

VARIABLE INDEX