```
29-Aug-86 11:35:58 {DANTE}<NEWMAN>LISP>DOCUMENT.;8
 File created:
  changes to:
                (FNS Document.Title Document.Format Document.Create Document.Begin Document.FileComments
                      Document.Functions Document.Variables Document.Things Document.Information
                      Document.SectionHead Document.FunctionCommentedP Document.Finish Document.RunningHead)
                 (VARS DOCUMENTCOMS)
previous date:
                26-Aug-86 18:18:51 {DSK}<LISPFILES>DOCUMENT.;1
 Read Table:
                OLD-INTERLISP-FILE
    Package:
                INTERLISP
       Format:
                  XCCS
(RPAQQ DOCUMENTCOMS
        ((* * This program creates documentation for any Lisp package in the style of the Lisp Users
             documentation. It requires that the code for the package be loaded. It does not completely format the document, but it minimizes the amount of work that the documenter must do. To make most effective use
             of these functions, each function in the package being documented must have a comment as the first
             expression in the function after the timestamp. Similarly, the COMS variable of the file should
             contain a comment (like this one)
             as the first item in the list. This package was documented using itself.)
          (FNS Document.Create Document.Begin Document.FileComments Document.Functions Document.Variables
               Document. Things Document. Finish Document. Running Head Document. Title Document. Information
               Document.SectionHead Document.Format Document.FunctionCommentedP)))
            (* * This program creates documentation for any Lisp package in the style of the Lisp Users documentation.
           It requires that the code for the package be loaded. It does not completely format the document, but it minimizes the amount of work that the documenter must do. To make most effective use of these functions, each function in the package being
            documented must have a comment as the first expression in the function after the timestamp.
            Similarly, the COMS variable of the file should contain a comment
            (like this one) as the first item in the list. This package was documented using itself.)
(DEFINEO
(Document.Create
  [LAMBDA (FileName)
                                                                             (* Newman "29-Aug-86 10:07")
              * This function builds a document for a loaded file. The document is in the style of the Lisp Library package
            documentation. The function collects comments from the COMS variable of the file and from the functions in the file.
            It also collects some information from the Interlisp-D file package.
            This is the top-level function in the ODCUMENT package.)
     (if (MEMBER FileName FILELST)
         then (RESETLST
                    (RESETSAVE (CURSOR WAITINGCURSOR))
                    (LET ((Stream (OPENTEXTSTREAM))
                           Pointer)
                          (Document.Begin FileName Stream)
                          (SETQ Pointer (ADD1 (GETEOFPTR Stream)))
                          (Document.FileComments FileName Stream)
                          (Document.Functions FileName Stream)
                          (Document. Variables FileName Stream)
                          (Document. Things FileName Stream (QUOTE MACROS)
                                  (QUOTE Macro))
                          (Document. Things FileName Stream (QUOTE RECORDS)
                                 (QUOTE Record))
                          (Document.Finish Stream Pointer)))
       else (ERROR FileName " not a loaded file."])
(Document.Begin
                                                                            (* Newman "29-Aug-86 10:23")
  [LAMBDA (FileName Stream)
            (* * This function initializes the begining of the document stream.)
     (Document.RunningHead FileName Stream)
     (Document.Title FileName Stream (ADD1 (GETEOFPTR Stream)))
     (Document.Information FileName Stream (ADD1 (GETEOFPTR Stream])
(Document.FileComments
                                                                            (* Newman "29-Aug-86 10:17")
  [LAMBDA (FileName Stream)
              * This function places all comments found in the COMS variable of FileName into Stream.
            It is intended for use in documenting a Lisp code file. Ideally, these commends would be distributed through the
            documentation as they are distributed through the COMS variable.)
     (Document.SectionHead Stream "INTRODUCTION")
     (PROMPTPRINT "Collecting File Comments ...")
     (for Descriptor in (FILECOMSLST FileName (QUOTE *)) do (printout Stream .PPFTL (REMOVE (QUOTE *)
                                                                                                         Descriptor)
                                                                             T])
```

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[LAMBDA (FileName Stream)
                                                                           (* Newman "29-Aug-86 10:25")
            * * This function documents the Functions on FileName into Stream.
           It does this by obtaining the function names from the file package, using the ARGLIST function to obtain the argument list,
           and obtainin the initial comment in the function if it exists.)
    (Document.SectionHead Stream "FUNCTIONS")
     (PROMPTPRINT "Collecting Function Comments ... ")
    (for Function in (FILEFNSLST FileName)
       do (TEDIT.INSERT Stream (CONCAT "(" Function " ")
                   (ADD1 (GETEOFPTR Stream))
                   (FONTCREATE (QUOTE MODERN)
                           10
                            (QUOTE MRR)))
           (TEDIT.INSERT Stream (SUBSTRING (MKSTRING (ARGLIST Function))
                                            2 - 2
                    (ADD1 (GETEOFPTR Stream))
                   (FONTCREATE (QUOTE MODERN)
                           1.0
                            (QUOTE ITALIC)))
           (TEDIT.INSERT Stream (CONCAT ")
                                                       [Function] " (CHARACTER 13))
                    (ADD1 (GETEOFPTR Stream))
                    (FONTCREATE (QUOTE MODERN)
                           10
                            (QUOTE MRR)))
           (* ^{\star} This SETFILEPTR is here because someone leaves the FILEPTR in the wrong place.)
           (SETFILEPTR Stream (GETEOFPTR Stream))
           (if (Document.FunctionCommentedP Function)
               then (printout Stream .PPVTL [REMOVE (QUOTE *)
                                                         (CADDDR (OR (GETPROP Function (QUOTE EXPR))
                                                                        (GETD Function]
                             T])
(Document.Variables
                                                                           (* Newman "29-Aug-86 10:28")
  [LAMBDA (FileName Stream)
             This function is intended for use while documenting Lisp code.
           It collects a list of the variables from FileName, and place's them in Stream in the format of the Lisp Library Documentation.)
    (Document.SectionHead Stream "VARIABLES")
    (PROMPTPRINT "Collecting Variables ...")
(for Variable in (FILECOMSLST FileName (QUOTE VARS))
       do (if (MEMBER Variable (FILECOMSLST FileName (QUOTE GLOBALVARS)))
             them (printout Stream Variable , " [GlobalVar]" T)

elseif (MEMBER Variable (FILECOMSLST FileName (QUOTE SPECVARS)))
             then (printout Stream Variable , "
else (printout Stream Variable , "
                                                       ' [SpecialVar]" T)
[Variable]" T])
(Document.Things
  [LAMBDA (FileName Stream FilePkgType TypeName)
                                                                           (* Newman "29-Aug-86 10:32")
             This function is intended for use while documenting Lisp code.
           It collects a list of items of type TypeName, that are written using the FilePkgType file package command, from FileName,
           and places them in Stream in the format of the Lisp Library Documentation.)
    (if (AND FilePkgType (MEMBER FilePkgType FILEPKGTYPES))
        then (if (FILECOMSLST FileName FilePkgType)
                  (PROMPTPRINT (CONCAT "Collecting " TypeName " ..
                        (for Thing in (FILECOMSLST FileName FilePkgType) do (printout Stream Thing
                                                                                           (CONCAT (CHARACTER 9)
                                                                                                    "[" TypeName "]")
                                                                                           T)))
      else (ERROR FilePkgType "Bad file package type: "])
(Document.Finish
  [LAMBDA (Stream Pointer)
                                                                          (* Newman "28-Aug-86 15:22")
           (* * This function performs formatting and the like to make the document pretty, and to make the format correct as specified.)
           (* * Set the selection to cover the non-header portions of the file.)
    (TEDIT.SETSEL Stream Pointer (DIFFERENCE (GETEOFPTR Stream)
                                              Pointer)
            (QUOTE LEFT))
           (* * Eliminate extra spaces)
    (bind (Num _ 1) repeatuntil (ZEROP Num) do (SETQ Num (TEDIT.SUBSTITUTE Stream " " ")))
           (* * Eliminate carriage returns that I think are introduced by printout)
```

(* * This call to SETFILEPTR is here because I believe TEDIT.PARALOOKS does not leave the file pointer at the end of the

stream as the printout function requires. I believe that if I eliminate all calls to printout, I can eliminate all calls to

SETFILEPTR. I also believe that PRINTOUT can always be replaced by TEDIT.INSERT.)

(Document.Information

Pointer

CENTERED))

Pointer))

(SETFILEPTR Stream (GETEOFPTR Stream))

(DIFFERENCE (ADD1 (GETEOFPTR Stream))

```
[LAMBDA (FileName Stream Pointer)
                                                                     (* Newman "29-Aug-86 10:37")
           ^st This function creates the information at the top of the document, including the form for the author's name and a list of
          other packages necessary to run this package.)
    (TEDIT.INSERT Stream (CONCAT " By: >>Author's Name<< (>>Net Address<<)" (CHARACTER 13)
                                  (SUBSTRING (DATE)
                                         1 9)
                                  (CHARACTER 13))
           (ADD1 (GETEOFPTR Stream))
           (FONTCREATE (QUOTE MODERN)
                   10)
           T)
    (if (FILECOMSLST FileName (QUOTE FILES))
        2 - 2)
                                           (CHARACTER 13)
                     (ADD1 (GETEOFPTR Stream))
                     (FONTCREATE (QUOTE MODERN)
                            10)
                    T))
    (TEDIT.PARALOOKS (TEXTOBJ Stream)
           (QUOTE (RIGHTMARGIN 456 LEFTMARGIN 0 1STLEFTMARGIN 0 QUAD CENTERED PARALEADING 17))
           Pointer
           (ADD1 (GETEOFPTR Stream)))
          (* The following SETFILEPTR exists because TEDIT.PARALOOKS does not leave the file pointer at the end of the file.)
    (SETFILEPTR Stream (GETEOFPTR Stream])
(Document.SectionHead
                                                                     (* Newman "29-Aug-86 10:39")
  [LAMBDA (Stream String)
           (* * This function is intended to create the bold section headings in Stream that are needed for the Lisp Users document
    (TEDIT.INSERT Stream (CONCAT String (CHARACTER 13))
           (ADD1 (GETEOFPTR Stream))
           (FONTCREATE (QUOTE MODERN)
                   10
                   (QUOTE BRR)))
    (SETFILEPTR Stream (GETEOFPTR Stream))
          (* * The following TEDIT.CARETLOOKS prevents the bolding from continuing past the section heading in some cases.)
    (TEDIT.CARETLOOKS Stream (FONTCREATE (QUOTE MODERN)
                                      10
                                      (QUOTE MRR])
(Document.Format
                                                                     (* Newman "29-Aug-86 10:54")
  [LAMBDA (Stream)
          (* * This function formats the document. It sets the page layout, font looks, and paragraph formatting for all selected text.)
    (TEDIT.SUBLOOKS Stream (QUOTE (FAMILY GACHA))
           (QUOTE (FAMILY MODERN SIZE 10)))
    (TEDIT.PARALOOKS (TEXTOBJ Stream)
           (QUOTE (TABS (NIL (0 . RIGHT)
                               (456 . RIGHT))
                         LINELEADING 4 PARALEADING 11 RIGHTMARGIN 456 LEFTMARGIN 0 1STLEFTMARGIN 0 QUAD JUSTIFIED
                         ))
           (TEDIT.GETSEL Stream))
    (TEDIT.PAGEFORMAT Stream (TEDIT.COMPOUND.PAGEFORMAT (TEDIT.SINGLE.PAGEFORMAT T 26.5 3.0 (QUOTE (MODERN 10))
                                                                   (QUOTE CENTERED)
                                                                   7.0 6.0 8.0 8.0 1 38.0 0
                                                                    (QUOTE ((RUNNINGHEAD 7.0 62.0)))
                                                                    (QUOTE PICAS)
                                                                   (QUOTE (STARTINGPAGE# 1))
                                                                    (QUOTE LETTER))
                                      (TEDIT.SINGLE.PAGEFORMAT T 26.5 3.5 (QUOTE (MODERN 10))
                                              (QUOTE CENTERED)
                                              7.0 6.0 8.0 8.0 1 38.0 0 (QUOTE ((RUNNINGHEAD 7.0 62.0)))
                                              (QUOTE PICAS)
                                              (QUOTE (STARTINGPAGE# 1))
                                              (QUOTE LETTER))
                                      (TEDIT.SINGLE.PAGEFORMAT T 26.5 3.0 (QUOTE (MODERN 10))
                                              (QUOTE CENTERED)
7.0 6.0 8.0 8.0 1 38.0 0 (QUOTE ((RUNNINGHEAD 7.0 62.0)))
                                              (QUOTE PICAS)
                                              (QUOTE (STARTINGPAGE# 1))
                                              (QUOTE LETTER])
```

(Document.FunctionCommentedP

{MEDLEY}spusers>document.;1 28-Jun-2024 18:34:03 -- Listed on 30-Jun-2024 13:14:02 --

FUNCTION INDEX

Document.Create	Document.FunctionCommentedP 5 Document.Functions 1 Document.Information 3 Document.RunningHead 3 Document.SectionHead 4	Document.Title3
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VARIABLE INDEX

DOCUMENTCOMS1