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previous date: 30-Mar-92 12:16:41 {Pele:mv:envos}<LispCore>Sources>CLTL2>CMLCOMPILE.;1

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

;;
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(RPAQQ **CMLCOMPILECOMS**

```
  [(COMS (FUNCTIONS CL:DISASSEMBLE)
    (FNS FAKE-COMPILE-FILE INTERLISP-FORMAT-P INTERLISP-NLAMBDA-FUNCTION-P COMPILE-FILE-EXPRESSION
      COMPILE-FILE-WALK-FUNCTION ARGTYPE.STATE COMPILE.CHECK.ARGTYPE COMPILE.FILE.DEFINEQ
      COMPILE-FILE-SETF-SYMBOL-FUNCTION COMPILE-FILE-EX/IMPORT COMPILE.FILE.APPLY
      COMPILE.FILE.RESET COMPILE-IN-CORE)
    (FNS COMPILE-FILE-SCAN-FIRST)
    ; This function is support for AR#11185
    (VARS ARGTYPE.VARS)
    (PROP COMPILE-FILE-EXPRESSION DEFINEQ * SETF-SYMBOL-FUNCTION PRETTYCOMPRINT)
    (FUNCTIONS COMPILE-FILE-DECLARE%:))
  [COMS (FNS NEWDEFC)
    (DECLARE%: DONTEVAL@LOAD DOCOPY (P (MOVD 'NEWDEFC 'DEFC)
    (PROP FILETYPE CMLCOMPILE)
    (DECLARE%: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILEVARS (ADDVARS (NLAMA
      (NLAML)
      (LAMA FAKE-COMPILE-FILE))
```

```
(CL:DEFUN CL:DISASSEMBLE (NAME-OR-COMPILED-FUNCTION &KEY LEVEL-P (RADIX 8)
  (OUTPUT *STANDARD-OUTPUT*)
  FIRST-BYTE MARKED-PC)
  (PRINTCODE (if (CCODEP NAME-OR-COMPILED-FUNCTION)
    then NAME-OR-COMPILED-FUNCTION
    else (CL:COMPILE NIL (if (CL:SYMBOLP NAME-OR-COMPILED-FUNCTION)
      then (CL:SYMBOL-FUNCTION NAME-OR-COMPILED-FUNCTION)
      else NAME-OR-COMPILED-FUNCTION)))
  LEVEL-P RADIX OUTPUT FIRST-BYTE MARKED-PC))
```

(DEFINEQ

(FAKE-COMPILE-FILE

```
(CL:LAMBDA
  (FILENAME &KEY LAP REDEFINE OUTPUT-FILE (SAVE-EXPRS T)
    (COMPILER-OUTPUT T)
    (PROCESS-ENTIRE-FILE NIL PEFP))
  ; Edited 29-Jun-90 19:19 by nm
  (LET
    (COMPILE.FILE.AFTER VALUE COMPILE.FILE.VALUE (NLAML NLAML)
      (NLAMA NLAMA)
      (LAMS LAMS)
      (LAMA LAMA)
      (DFNFLG NIL))
    (DECLARE (CL:SPECIAL COMPILE.FILE.AFTER COMPILE.FILE.VALUE NLAML NLAMA LAMS LAMA DFNFLG))
    (RESETLST
      (RESETSAVE NIL (LIST 'RESETUNDO)
        (RESETUNDO))
      (RESETSAVE COUTFILE COMPILER-OUTPUT)
      (RESETSAVE STRF REDEFINE)
      (RESETSAVE SVFLG (AND SAVE-EXPRS REDEFINE 'DEFER))
      (RESETSAVE LAPFLG LAP)
      (LET ((*PACKAGE* *INTERLISP-PACKAGE*)
        (*READ-BASE* 10)
        (LOCALVARS SYSLOCALVARS)
        (SPECVARS T)
        STREAM LSTFIL ROOTNAME INTERLISP-FORMAT ENV FORM)
        (DECLARE (CL:SPECIAL *PACKAGE* *READ-BASE* LOCALVARS SPECVARS LSTFIL))
        [RESETSAVE NIL (LIST (FUNCTION CLOSEP?)
          (SETQ STREAM (OPENSTREAM FILENAME 'INPUT)
          (CL:MULTIPLE-VALUE-SETQ (ENV FORM)
            (\PARSE-FILE-HEADER STREAM 'RETURN T))
          (SETQ INTERLISP-FORMAT (AND ENV (NEQ ENV *COMMON-LISP-READ-ENVIRONMENT*)))
          (if (NOT PEFP)
            then (SETQ PROCESS-ENTIRE-FILE INTERLISP-FORMAT))
          (if LAP
            then (SETQ LSTFIL COUTFILE))
          (SETQ FILENAME (FULLNAME STREAM))
          (RESETSAVE NIL (LIST (FUNCTION COMPILE.FILE.RESET)
            [SETQ OUTPUT-FILE (OPENSTREAM (OR OUTPUT-FILE (PACKFILENAME.STRING
              'VERSION NIL 'EXTENSION
              COMPILE.EXT 'BODY FILENAME))
              'OUTPUT
              'NEW
              ' ((TYPE BINARY]
```

```

        STREAM
        (ROOTFILENAME FILENAME)))
    (if OUTPUT-FILE
      then (RESETSAVE LCFIL OUTPUT-FILE)
            (PRINT-COMPILE-HEADER (LIST STREAM)
              ' ("COMPILE-FILEd")
              ENV))
    (WITH-READER-ENVIRONMENT ENV
      (PROG ((DEFERRED.EXPRESSIONS NIL)
              (*PRINT-ARRAY* T)
              (*PRINT-LEVEL* NIL)
              (*PRINT-LENGTH* NIL)
              (FIRSTFORMS NIL)
              (AFTERS NIL)
              (SCRATCH.LCOM ' {CORE}SCRATCH.LCOM)
              DUMMYFILE TEMPVAL)
        (DECLARE (CL:SPECIAL DEFERRED.EXPRESSIONS *PRINT-ARRAY* *PRINT-LEVEL* *PRINT-LENGTH*
                  FIRSTFORMS AFTERS DEFERS))
          ; Edited by TT (11-June-90 : for AR#11185) all contents of file
          ; are read, and each forms are compiled.(This reading method is
          ; for supporting "FIRST", "NOTFIRST" tag.)

    [RESETSAVE NIL (LIST (FUNCTION CLOSEF?)
                          (SETQ DUMMYFILE (OPENSTREAM SCRATCH.LCOM 'BOTH 'NEW)

LPDUMP
  [if (EQUAL (CAR FORM)
              'RPAQQ)
    then
      ; This is the support method of "COMPILE-ERARS" (2-July-1990
      ; TT)
      (SETQ TEMPVAL (CADDR FORM))
      (if (SETQ TEMPVAL (ASSOC 'DECLARE%: TEMPVAL))
        then (if (SETQ TEMPVAL (FMEMB 'COMPILE-ERARS (FMEMB 'DOEVAL@COMPILE TEMPVAL)))
          then (SETQ DFNFLG T)
            (if [SETQ TEMPVAL (FMEMB 'ADDVARS (SETQ TEMPVAL (CADR TEMPVAL)
              then (CL:DOLIST (ARG (CDR TEMPVAL))
                (APPLY 'ADDTOTVAR ARG))])
          (COMPILE-FILE-EXPRESSION FORM DUMMYFILE NIL PROCESS-ENTIRE-FILE)
        (SKIPSEPCODES STREAM)
      (if (EOPF STREAM)
        then (CLOSEF STREAM)
          (for FORM in FIRSTFORMS do (COMPILE-FILE-EXPRESSION FORM OUTPUT-FILE NIL
            PROCESS-ENTIRE-FILE T))
          (COPYBYTES DUMMYFILE OUTPUT-FILE 0 (GETFILEPTR DUMMYFILE))
          (CLOSEF? DUMMYFILE)
          (DELFIL (FULLNAME DUMMYFILE))
          (AND PROCESS-ENTIRE-FILE (for EXP in (REVERSE DEFERRED.EXPRESSIONS)
            do (APPLY* (CAR EXP)
              (CDR EXP)
              OUTPUT-FILE)))
          (for FORM in AFTERS do (COMPILE-FILE-EXPRESSION FORM OUTPUT-FILE NIL
            PROCESS-ENTIRE-FILE T))
          (RETURN))
          (SETQ FORM (READ STREAM))
          (GO LPDUMP))
          (PRINT NIL OUTPUT-FILE))
          (SETQ COMPILE.FILE.VALUE (CLOSEF OUTPUT-FILE))))
    ; Do these after UNDONLSETQ entered
    (MAPC (REVERSE COMPILE.FILE.AFTER)
      (FUNCTION EVAL))
    COMPILE.FILE.VALUE)))

```

(INTERLISP-FORMAT-P

```

[LAMBDA (STREAM)
  (SELCHARQ (PEEKCCODE STREAM)
    (; NIL)
    ((^F "(")
     T)
    NIL))

```

(* bvm%: " 3-Aug-86 14:01")

(INTERLISP-NLAMBDA-FUNCTION-P

```

[LAMBDA (X)
  (AND (LITATOM X)
    (FMEMB (ARGTYPE X)
      ' (1 3))
    (NOT (CL:SPECIAL-FORM-P X)))

```

(* Imm " 7-May-86 20:12")

(COMPILE-FILE-EXPRESSION

```

[LAMBDA (FORM COMPILED.FILE COMPILE.TIME.TOO DEFER FORCE-OUTPUT-P)
  (DECLARE (CL:SPECIAL COMPILED.FILE))
  (AND (LISTP FORM)
    (SELECTQ (CAR FORM)
      ((DECLARE%: FILECREATED)
        (COMPILE-FILE-SCAN-FIRST FORM COMPILED.FILE NIL T COMPILE.TIME.TOO DEFER FORCE-OUTPUT-P))
      ((DEFMACRO)
        (LET* ((DEFINITION (REMOVE-COMMENTS FORM))

```

; Edited 30-Jun-90 18:31 by nm

(COMPILE-FILE-WALK-FUNCTION

(ARGTYPE.STATE

```
[LAMBDA NIL
  (for X in ARGTYPE.VARS do (PRINTOUT T X %, (EVAL (CADR X))
```

T])

(COMPILE.CHECK.ARGTYPE

```

[LAMBDA (X AT)
  (if (NEQ AT (LET (BLKFLG)
                  (COMP.ARGTYPE X)))
    then
      (for ATYPEPAIR in ARGTYPE.VARS
        do (LET [(VAL (FMEMB X (EVALV (CADR ATYPEPAIR))
              (if (EQ AT (CAR ATYPEPAIR))
                then (if VAL
                      then (PRINTOUT COUTFILE "Compiler confused: " X " on " (CADR ATYPEPAIR)
                        " but compiler doesn't think its a "
                        (CADR ATYPEPAIR)))
                  [/SETTOPVAL (CADR ATYPEPAIR)
                   (CONS X (PROGN (GETTOPVAL (CADR ATYPEPAIR))
                                (REMOVE X (PROGN (GETTOPVAL (CADR ATYPEPAIR))
                                                    (PRINTOUT COUTFILE "Warning: compiler thought " X " "
                                                                (LIST 'a (OR (CADDR (ASSOC AT ARGTYPE.VARS))
                                                                "LAMBDA spread")
                                                                'function)
                                                                " was a "
                                                                (CADR ATYPEPAIR)
                                                                " because it was incorrectly on "
                                                                (CADR ATYPEPAIR)
                                                                T)
                                                                (/SETTOPVAL (CADR ATYPEPAIR)
                                                                (REMOVE X (PROGN (GETTOPVAL (CADR ATYPEPAIR))
                                                                (* Imm "15-Jun-85 16:58")
                                                                ; Incorrectly on one of the defining lists

```

(COMPILE.FILE.DEFINEQ

```

[LAMBDA (FORM LCFIL)
  (for DEF in (CDR FORM) unless (FMEMB (CAR DEF)
                                       DONTCOMPILEFNS)
    do (COMPILE.CHECK.ARGTYPE (CAR DEF)
      (ARGTYPE (CADR DEF)))
    (BYTECOMPILE2 (CAR DEF)
      (COMPILE1A (CAR DEF)
        (CADR DEF)
        NIL])
  (* bvm%: "18-Sep-86 14:35")

```

(COMPILE-FILE-SETF-SYMBOL-FUNCTION

```

[LAMBDA (FORM LCFIL)
  (if [AND (FMEMB (CAR (LISTP (CL:THIRD FORM)))
                ' (FUNCTION CL:FUNCTION))
        (EQ (CAR (LISTP (CL:SECOND FORM)))
            'QUOTE)
        (CL:CONSP (CL:SECOND (CL:THIRD FORM))
          then (BYTECOMPILE2 (CADR (CL:SECOND FORM))
                            (CADR (CL:THIRD FORM)))
        else (PRINT (WALK-FORM FORM :WALK-FUNCTION (FUNCTION COMPILE-FILE-WALK-FUNCTION))
                    LCFIL])
  (* bvm%: " 8-Sep-86 16:55")

```

(COMPILE-FILE-EX/IMPORT

```

[LAMBDA (FORM LCFIL RDTBL)
  (* "EXPORT, IMPORT, SHADOW, USE-PACKAGE are all implicitly EVAL@COMPILE, since they have to affect the
  package being used to read what follows")

  (PRINT FORM LCFIL RDTBL)
  (EVAL FORM])
  (* bvm%: " 3-Aug-86 15:05")

```

(COMPILE.FILE.APPLY

```

[LAMBDA (PROP FORM DEFER FORCE-OUTPUT-P)
  (if FORCE-OUTPUT-P
    then (PRINT FORM COMPILED.FILE)
    else (if DEFER
            then (push DEFERRED.EXPRESSIONS (CONS PROP FORM))
            else (APPLY* PROP FORM COMPILED.FILE]))
  ; Edited 29-Jun-90 19:21 by nm

```

(COMPILE.FILE.RESET

```

[LAMBDA (COMPILED.FILE SOURCEFILE ROOTNAME)
  (if (AND COMPILED.FILE (OPENP COMPILED.FILE))
    then (CLOSE-AND-MAYBE-DELETE COMPILED.FILE))
  (if SOURCEFILE
    then (CLOSEF? SOURCEFILE))
  (if (NULL RESETSTATE)
    then
      (/SETATOMVAL 'NOTCOMPILEDFILES (REMOVE ROOTNAME NOTCOMPILEDFILES))
      (* Finished successfully.)
      (* Removes FILES from NOTCOMPILEDFILES.))
  (* bvm%: " 9-Sep-86 15:16")
  (* Cleans up after brecompile and bcompl have finished
  operating.)

```

(COMPILE-IN-CORE

```

[LAMBDA (fn-name fn-expr fn-type NOSAVE)
  (DECLARE (SPECVARS LCFIL LAPFLG STRF SVFLG LSTFIL SPECVARS LOCALVARS DONT-TRANSFER-PUTD))
  (* Imm "2-Jun-86 22:04")

  (* in-core compiling for functions and forms, without the interview.
  if X is a list, we assume that we are being called merely to display the lap and machine code.
  the form is compiled as the definition of FOO but the compiled :CODE is thrown away.
  -
  if X is a litatom, then saving, redefining, and printing is controlled by the flags.)

  (LET ((NOREDEFINE NIL)
        (PRINTLAP NIL)
        (DONT-TRANSFER-PUTD T))
    (RESETVARS [(NLAMA NLAMA)
                (NLAML NLAML)
                (LAMS LAMS)
                (LAMA LAMA)
                (NOFIXFNSLST NOFIXFNSLST)
                (NOFIXVARSLST NOFIXVARSLST)
                (COUTFILE (COND
                           ((AND (BOUNDP 'NULLFILE)
                                (STREAMP NULLFILE)
                                (OPENP NULLFILE))
                            NULLFILE)
                           (T (SETQ NULLFILE (OPENFILE ' {NULL} 'OUTPUT))
                                (* RESETLST to provide reset context for macros under
                                COMPILE1 as generated e.g. by DECL.))
                          ]
                (RETURN (RESETLST

                        [PROG ((LCFIL)
                              [LAPFLG (AND PRINTLAP (COND
                                             (BYTECOMPFLG T)
                                             (T 2]

                              (STRF (NOT NOREDEFINE))
                              (SVFLG (if (EQ fn-type 'SELECTOR)
                                           then 'SELECTOR
                                           else (NOT NOSAVE)))
                              (LSTFIL T)
                              (SPECVARS SYSSPECVARS)
                              (LOCALVARS T))
                              (RETURN (PROGN (SETQ fn-expr (COMPILE1A fn-name fn-expr T))
                                              (PROG ((FREEVARS FREEVARS))
                                                  (RETURN (BYTECOMPILE2 fn-name fn-expr))))))

                        ]
                )
    )
  (DEFINEQ

```

(COMPILE-FILE-SCAN-FIRST

```

[LAMBDA (FORM COMPILED.FILE FIRSTFLG DOCOPY EVAL@COMPILE DEFER FORCE-OUTPUT-P)
  ; Edited 30-Jun-90 18:32 by nm
  ; Edited 26-Apr-90 by tt
  ; This is enhancement for Fake Compiler's interpretation of file
  ; package coms

  (PROG ((DFNFLG DFNFLG)
        (FIRST FIRSTFLG)
        (DOCOPY DOCOPY)
        (EVAL@COMPILE EVAL@COMPILE)
        (NOTFIRST)
        (if (LISTP FORM)
            then (SELECTQ (CAR FORM)
                          ((DECLARE%)
                           (CL:DO ((TAIL (CDR FORM)
                                         (CDR TAIL)))
                                ((CL:ENDP TAIL))
                                [if (CL:SYMBOLP (CAR TAIL))
                                  then (CASE (CAR TAIL)
                                         ((DOCOPY COPY) (SETQ DOCOPY T))
                                         ((DONTCOPY) (SETQ DOCOPY NIL))
                                         ((COPYWHEN) [SETQ DOCOPY (EVAL (CAR (SETQ TAIL (CDR TAIL))
                                         (EVAL@LOAD DOEVAL@LOAD DONTVAL@LOAD) NIL)
                                         (EVAL@LOADWHEN) (CL:POP TAIL))
                                         (EVAL@COMPILE DOEVAL@COMPILE) (SETQ EVAL@COMPILE T))
                                         ((DONTVAL@COMPILE) (SETQ EVAL@COMPILE NIL))
                                         (EVAL@COMPILEWHEN) [SETQ EVAL@COMPILE (EVAL (CAR (SETQ TAIL
                                                                 (CDR TAIL))

                                         (FIRST)
                                         (SETQ FIRST T)
                                         (SETQ NOTFIRST NIL))
                                         ; for First

                                         ((NOTFIRST)
                                          (SETQ NOTFIRST T)
                                          (SETQ FIRST NIL)) ; for Not First
                                         ((COMPILEVARS) (SETQ DFNFLG T))
                                         ; for Compilevars
                                         (CL:OTHERWISE (CL:FORMAT COUTFILE "Warning: Ignoring unrecognized

```

```

                                DECLARE: tag: ~S~%" (CAR TAIL))))
      else (COND
            ((EQ 'DECLARE%: (CAR (CAR TAIL)))
             (COMPILE-FILE-SCAN-FIRST (CAR TAIL)
                                       COMPILED.FILE FIRST DOCOPY EVAL@COMPILE DEFER))
            (T (CL:WHEN EVAL@COMPILE
                  (EVAL (CAR TAIL)))
              (CL:WHEN DOCOPY
                (CL:IF FIRST
                  (SETQ FIRSTFORMS (NCONC1 FIRSTFORMS (CAR TAIL)))
                  (CL:IF NOTFIRST
                    (SETQ AFTERS (NCONC1 AFTERS (CAR TAIL)))
                    (COMPILE-FILE-EXPRESSION (CAR TAIL)
                                              COMPILED.FILE EVAL@COMPILE DEFER FORCE-OUTPUT-P))
                ))))
      ))))
      ((FILECREATED)
       (if FORCE-OUTPUT-P
          then (PRINT FORM COMPILED.FILE)
          else (SETQ FIRSTFORMS (NCONC1 FIRSTFORMS FORM))))
      NIL])
)

```

:: This function is support for AR#11185

```

(RPAQQ ARGTYPE.VARS ((1 NLAML "NLAMBDA spread")
                     (2 LAMA "LAMBDA nospread")
                     (0 LAMS "LAMBDA spread")
                     (3 NLAMA "NLAMBDA no-spread"))))

(PUTPROPS DEFINEQ COMPILE-FILE-EXPRESSION COMPILE.FILE.DEFINEQ)

(PUTPROPS * COMPILE-FILE-EXPRESSION NIL)

(PUTPROPS SETF-SYMBOL-FUNCTION COMPILE-FILE-EXPRESSION COMPILE-FILE-SETF-SYMBOL-FUNCTION)

(PUTPROPS PRETTYCOMPRINT COMPILE-FILE-EXPRESSION NIL)

(CL:DEFUN COMPILE-FILE-DECLARE%: (FORM COMPILED.FILE EVAL@COMPILE DOCOPY DEFER)
  (CL:DO ((TAIL (CDR FORM)
                (CDR TAIL)))
    ((CL:ENDP TAIL))
    (CL:IF (CL:SYMBOLP (CAR TAIL))
      (CASE (CAR TAIL)
        ((EVAL@LOAD DOEVAL@LOAD DONTVAL@LOAD) NIL)
        ((EVAL@LOADWHEN) (CL:POP TAIL))
        ((EVAL@COMPILE DOEVAL@COMPILE) (SETQ EVAL@COMPILE T))
        ((DONTVAL@COMPILE) (SETQ EVAL@COMPILE NIL))
        ((EVAL@COMPILEWHEN) [SETQ EVAL@COMPILE (EVAL (CAR (SETQ TAIL (CDR TAIL))
        ((COPY DOCOPY) (SETQ DOCOPY T))
        ((DONTCOPY) (SETQ DOCOPY NIL))
        ((COPYWHEN) [SETQ DOCOPY (EVAL (CAR (SETQ TAIL (CDR TAIL))
        ((FIRST) )
        ((NOTFIRST COMPILERVERS) )
        (CL:OTHERWISE (CL:FORMAT COUTFILE "Warning: Ignoring unrecognized DECLARE: tag: ~S~%"
                                (CAR TAIL))))))
      (COND
        ((EQ 'DECLARE%: (CAR (CAR TAIL)))
         (COMPILE-FILE-DECLARE%: (CAR TAIL)
                                   COMPILED.FILE EVAL@COMPILE DOCOPY DEFER))
        (T (CL:WHEN EVAL@COMPILE
                  (EVAL (CAR TAIL)))
          (CL:WHEN DOCOPY
            (COMPILE-FILE-EXPRESSION (CAR TAIL)
                                      COMPILED.FILE EVAL@COMPILE DEFER))))))
  )

(DEFINEQ
  (NEWDEFC
    [LAMBDA (NM DF)
      [COND
        ((EQ SVFLG 'DEFER)
         (push COMPILE.FILE.AFTER (LIST (FUNCTION NEWDEFC)
                                         (KWOTE NM)
                                         (KWOTE DF)
                                         T)))
        ((OR (NULL DFNFLG)
              (EQ DFNFLG T))
         [COND
           ((GETD NM)
            (VIRGINFN NM T)
            [COND
              ((NULL DFNFLG)
               (CL:FORMAT *ERROR-OUTPUT* "~&(~S redefined)~%" NM)
               (SAVEDEF NM]
              (/PUTD NM DF T))

```

(* bvm%: "30-Sep-86 23:12")

```
(T ;; Save on CODE prop. Be nice and change it from archaic CCODEP object to modern compiled code object.
  (/PUTPROP NM 'CODE (if (ARRAYP DF)
    then (create COMPILED-CLOSURE
      FNHEADER _ (fetch (ARRAYP BASE) of DF))
    else DF]
  DF])
)

(DECLARE%: DONTEVAL@LOAD DOCOPY

(MOVD 'NEWDEFC 'DEFC)
)

(PUTPROPS CMLCOMPILE FILETYPE CL:COMPILE-FILE)

(DECLARE%: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILEVAR)

(ADDTOVAR NLAMA )

(ADDTOVAR NLAML )

(ADDTOVAR LAMA FAKE-COMPILE-FILE)
)

(PUTPROPS CMLCOMPILE COPYRIGHT ("Venue & Xerox Corporation" 1985 1986 1987 1990 1991 1992 1993))
```

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