

File created: 29-Jan-98 15:47:09 {DSK}<disk>disk2>jdstools>lc3>lispcore3.0>sources>RENAMEFNS.;2

changes to: (VARS RENAMEFNCOMS)
(FNS DORENAME RENAMEFN)

previous date: 6-Nov-92 19:47:12 {DSK}<disk>disk2>jdstools>lc3>lispcore3.0>sources>RENAMEFNS.;1

Read Table: XCL

Package: INTERLISP

Format: XCCS

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(RPAQQ **RENAMEFNCOMS**

(
;; Create "retargeted" functions, to read/write to sysout files, rather than to memory.

;; (DORENAME 'I creates I-NEW in makeinit

;; (DORENAME 'R) creates RDSYS for library.

;;

(FNS DORENAME DORENAME0 RENAMEFN RENAMEDVAL MAKECOMP RNSUBST)

(FILES (SOURCE)

FILESETS)

(BLOCKS (RNSUBST RNSUBST (NOLINKFNS . T)))

(GLOBALVARS RENAMEHASH RENAMETYPE EXPANDMACROFNS RENAMETYPES INITCONSTANTS RENAMEFNPAIRS VAG2FN
RENAMEDFILE NEWCOMS EXTRACOMS)))

;; Create "retargeted" functions, to read/write to sysout files, rather than to memory.

;; (DORENAME 'I creates I-NEW in makeinit

;; (DORENAME 'R) creates RDSYS for library.

;;

(DEFINEQ

(**DORENAME**

(LAMBDA (TYPE NOLOADFLG MINIMALFLG)

(* |bvm:| "16-Jun-86 15:35")

(**DORENAME0** (SETQ RENAMETYPE TYPE)

NOLOADFLG MINIMALFLG)

(RESETVARS ((LOADDBFLG 'NO)

(NOSPELLFLG T)

(CROSSCOMPILING T))

(|for| X |in| RENAMEFNPAIRS |do| (**RENAMEFN** (CAR X)

(CDR X))))

(**MAKECOMP** RENAMEDFILE (APPEND (**RENAMEDVAL** NEWCOMS)
EXTRACOMS))))

(**DORENAME0**

(LAMBDA (TYPE NOLOAD MINIMALFLG)

; Edited 24-Jan-91 10:35 by jds

(PROG (LISPHIST RENAMEALIST)

(**DECLARE** (SPECVARS . T))

(MAPC (CDR (ASSOC (OR TYPE 'I)

RENAMETYPES))

(FUNCTION (LAMBDA (X)

(SETATOMVAL (CAR X)

(CDR X))))))

(RESETVARS ((LOADDBFLG 'NO)

(NOSPELLFLG T)

(CROSSCOMPILING T))

(FILESLOAD (SYSLOAD)

DTDECLARE)

(|for| X |in| FILES |do| (COND

(MINIMALFLG (PRINT (LOADFROM (FINDFILE X))
T T))

(T ; Load whole file, getting fn definitions at the same time

(LOAD (FINDFILE X)

'PROP)

(LOADCOMP (FINDFILE X))

; May need to LOADCOMP because the file's functions use local
; macros and optimizers....

))))

(SETQ ALLFNS (INFILECOMS? NIL 'FNS (SETQ NEWCOMS (GETATOMVAL COMSNAME))))

(COND

(MINIMALFLG

; Load the fns specified as needed by NEWCOMS

(RESETVARS ((NOSPELLFLG T))

(MAPC FILES (FUNCTION (LAMBDA (FILE)

(LOADFNS ALLFNS FILE 'PROP))))))

(SETQ NEWCOMS (MAPCAR NEWCOMS (FUNCTION (LAMBDA (X)

(COND

((EQ (CADR X)

'*))

(CONS (CAR X)

```

(EVAL (CADDR X))))
(T X))))))
(SETQ RENAMEALIST (GETATOMVAL SUBNAME))
(SETQ RENAMEFNPAIRS (MAPCAR (INFILECOMS? NIL 'FNS NEWCOMS)
(FUNCTION (LAMBDA (FN)
(CONS FN (OR (CDR (ASSOC FN RENAMEALIST))
(PACK* PREFIX FN)))))))
(SETQ RENAMEHASH (HASHARRAY (LENGTH RENAMEALIST)))
;; Store SUBNAME associations in hash array for faster access. First add other things, then elts of SUBNAME, since they have absolute
;; precedence over anything implicitly declared here
(|for| X |in| INITCONSTANTS |when| (AND (NEQ (CAR X)
'*)
(LISTP (CADR X)))
|do| ; Do substitutions on all constants declared as addresses
(PTHASH (CAR X)
(LIST VAG2FN (CAADR X)
(CADR (CADR X)))
RENAMEHASH))
(|for| X |in| (APPEND (GETATOMVAL VALUES)
(GETATOMVAL PTRS))
|when| (NEQ (CAR X)
'*)
|do| ;; These are global variables containing simple values and pointers that are renamed so that the operations on them happen in
;; the remote image instead of the local one.
(PTHASH (CAR X)
(PACK* PREFIX (SUBSTRING (CAR X)
2 -1))
RENAMEHASH))
(|for| X |in| FILES |do| (|for| Y |in| (FILECOMSLST X 'CONSTANTS)
|do| ; Arrange for all constants to be substituted explicitly, rather than
; rely on the compiler to do so
(PTHASH Y (COND
((OR (NULL (SETQ Y (EVAL Y)))
(EQ Y T)
(NUMBERP Y))
Y)
(T (LIST 'QUOTE Y)))
RENAMEHASH)))
(|for| PAIR |in| (APPEND RENAMEFNPAIRS RENAMEALIST) |do| (PTHASH (CAR PAIR)
(CDR PAIR)
RENAMEHASH))))

```

(RENAMEFN

```

(LAMBDA (OFN NFN) ;* |bvm:| "24-Jul-86 10:57")
(|until| (ERSETQ (RESETVARS ((NOSPELLFLG T)
(DWIMESSGAG T)
(DWIMUSERFORMS))
(LET ((NEWDEF (RNSUBST (GETDEF OFN))))
(COND
((EXPRP NFN) ;* |Redefine| |existing| |expr| |to| |avoid| |confusing| |filepkg|
(/PUTD NFN NEWDEF))
(T (/PUTPROP NFN 'EXPR NEWDEF))))))
|do| (HELP OFN "Rename failed -- RETURN to try again"))))

```

(RENAMEDVAL

```

(LAMBDA (VAL) ;* |bvm:| "14-Jun-86 17:30")
(RESETVARS ((NOSPELLFLG T)
(DWIMESSGAG T)
(DWIMUSERFORMS))
(RETURN (RNSUBST VAL))))

```

(MAKECOMP

```

(LAMBDA (FILE COMS) ;* |bvm:| "14-Jun-86 17:31")
(LET (FULL)
(SETATOMVAL (FILECOMS FILE)
COMS)
(RESETVARS ((COPYRIGHTFLG 'NEVER)
PRETTYFLG USEMAPFLG MAKEFILEREMAKEFLG)
(SETQ FULL (MAKEFILE FILE ' (NEW))))
(LISPXUNREAD ' (F))
(LIST FULL (RESETVARS (DONTCOMPILEFNS)
(RETURN (BRECOMPILER FULL NIL 'ALL))))))

```

(RNSUBST

```

(LAMBDA (X) ; Edited 6-Nov-92 19:46 by sybalsky:mv:envos
;; Make substitutions during a rename.
(COND
((NLISTP X)
(OR (GETHASH X RENAMEHASH)
X)))

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(T (LET ((A (CAR X))
        (ENV (COMPILER::MAKE-ENV)))
      (COND
        ((LISTP A)
         (COND
          ((EQ (CAR A)
               'OPENLAMBDA)
           (RNSUBST (EXPANDOPENLAMBDA A (MAPCAR (CDR X)
                                                (FUNCTION RNSUBST))))))
          (T (MAPCAR X (FUNCTION RNSUBST))))))
        (T (SELECTQ A
                  (*
                   (CONS '* NIL)
                   (LOCAL (LET ((EXPR (CADR X)))
                           (COND
                            ((LISTP EXPR)
                             (CONS (CAR EXPR)
                                    (MAPCAR (CDR EXPR)
                                            (FUNCTION RNSUBST))))
                            (T EXPR))))
                   (UNLESSRDSYS (SELECTQ RENAMETYPE
                                         (R (RNSUBST (CADR X)))
                                         (RNSUBST (CADR X))))
                   (ALLOCAL (CADR X))
                   (QUOTE X)
                   (COND
                    ((FMEMB (CAR (LISTP (GETPROP A 'CLISPPWORD)))
                            ' (RECORDTRAN CHANGETRAN))
                     ; most CLISP forms don't need or want to substitute under, but
                     ; do so for record expressions
                     (RNSUBST (OR (GETHASH (DWIMIFY X T)
                                           CLISPARRAY)
                                   (PROGN (HELP X "DWIM failed")
                                         X))))
                    ((SETQ A (GETHASH A RENAMETHASH))
                     (RNSUBST (CONS A (CDR X))))
                    ((FMEMB (CAR X)
                            EXPANDMACROFNS)
                     (RESETVARS ((COMPILEMACROPROPS ' (DMACRO ALTOMACRO BYTEMACRO MACRO)))
                                (LET ((OPTS (GET (CAR X)
                                                  'COMPILER:OPTIMIZER-LIST))
                                      (TRY-MACROS T))
                                  ;; Try expanding its optimizers:
                                  (CL:WHEN OPTS
                                   (|for| OPT |in| OPTS
                                    |do| (LET ((RESULT (APPLY* OPT X ENV NIL)))
                                           (CL:WHEN (AND (NEQ RESULT X)
                                                         (NEQ RESULT 'IGNOREMACRO)
                                                         (NEQ RESULT 'COMPILER:PASS))
                                           (SETQ X RESULT)
                                           (SETQ TRY-MACROS NIL))))))
                                  ;; Try expanding it as a macro:
                                  (CL:WHEN TRY-MACROS
                                   (LET ((EXPANDED-FORM (CL:MACROEXPAND-1 X)))
                                       (CL:IF (EQ EXPANDED-FORM X)
                                           (HELP X "macro expansion failed")
                                           (SETQ X EXPANDED-FORM))))))
                     (RNSUBST X))
                    (T (CONS (CAR X)
                            (MAPCAR (CDR X)
                                    (FUNCTION RNSUBST))))))))))))))
)

(FILELOAD (SOURCE)
  FILESETS)

(DECLARE\ : DONTVAL@LOAD DOEVAL@COMPILE DONTCOPY

(BLOCK\ : RNSUBST RNSUBST (NOLINKFNS . T))
)

(DECLARE\ : DOEVAL@COMPILE DONTCOPY

(GLOBALVARS RENAMETHASH RENAMETYPE EXPANDMACROFNS RENAMETYPES INITCONSTANTS RENAMEFNPAIRS VAG2FN RENAMEDFILE
  NEWCOMS EXTRACOMS)
)

(PUTPROPS RENAMEFNS COPYRIGHT ("Venue & Xerox Corporation" 1982 1984 1986 1990 1991 1992 1998))

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FUNCTION INDEX

DORENAME1 DORENAME01 MAKECOMP2 RENAMEDVAL2 RENAMEFN2 RNSUBST2
