

File created: 18-Dec-86 19:03:25 {ERIS}<LISPCORE>INTERNAL>LIBRARY>WHOCALLS.;2

changes to: (FNS DISTRIBUTE.CALLINFO DISTRIBUTE-CALL-INFO-FOR-SYMBOL)
(VARS WHOCALLSCOMS)

previous date: 7-Nov-86 02:47:11 {ERIS}<LISPUSERS>LISPCORE>WHOCALLS.;2

Read Table: XCL

Package: INTERLISP

Format: XCCS

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(RPAQQ **WHOCALLSCOMS** ((FNS WHOCALLS WHOCALLS1 DISTRIBUTE.CALLINFO DISTRIBUTE-CALL-INFO-FOR-SYMBOL)
(PROP PROPTYPE CALLEDBY USEDFFREEBY USEDGLOBALBY BOUNDBY)))

(DEFINEQ

(WHOCALLS

```
(LAMBDA (CALLEE USAGE)
  (DECLARE (SPECVARS CALLEE USAGE CALLTYPE VAL)) (* |bvm:| " 1-Oct-86 14:05")
  (PROG ((CALLTYPE (|if| (LISTP USAGE)
                        |then|
                        (SETQ USAGE (|for| TYPE |in| USAGE |collect| (OR (MISPELLED? TYPE 70
                              ' (BOUND USEDFFREE GLOBALS))
                              (\ILLEGAL.ARG TYPE))))
                        'VARAPPLY
                        |else| (SELECTQ USAGE
                                ((USES VAR VARS BOUND USEDFFREE GLOBALS)
                                 (SETQ USAGE 'USES)
                                 'VARAPPLY)
                                ((BOUND USEDFFREE GLOBALS)
                                 (SETQ USAGE (LIST USAGE))
                                 'VARAPPLY)
                                ((NIL CALLS)
                                 'FNAPPLY)
                                (\ILLEGAL.ARG USAGE))))
    VAL)
  (MAPATOMS (FUNCTION WHOCALLS1))
  (RETURN VAL))))
```

(WHOCALLS1

```
(LAMBDA (FN)
  (DECLARE (USEDFFREE CALLEE USAGE CALLTYPE VAL)) (* |bvm:| " 1-Oct-86 14:05")
  ;; If FN uses CALLEE in the CALLTYPE manner, add FN to the list VAL. This is separate fn because of the RETFROM.
  (COND
    ((CCODEP FN)
     (CALLSCCODE FN CALLTYPE (FUNCTION (LAMBDA (CALLED FLG)
                                         (COND
                                           ((AND (OR (NLISTP USAGE)
                                                    (MEMB FLG USAGE))
                                                  (COND
                                                    ((LISTP CALLEE)
                                                     (MEMB CALLED CALLEE))
                                                    (T (EQ CALLED CALLEE))))
                                           (|printout| T FN ", ")
                                           (|push| VAL FN)
                                           (RETFROM 'WHOCALLS1))))))
     (BLOCK))))
```

(DISTRIBUTE.CALLINFO

```
(LAMBDA NIL
  (ADD.PROCESS ' (MAPATOMS 'DISTRIBUTE-CALL-INFO-FOR-SYMBOL)
               'NAME
               'DISTRIBUTE-CALL-INFO))) ; Edited 18-Dec-86 19:03 by Pavel
```

(DISTRIBUTE-CALL-INFO-FOR-SYMBOL

```
(LAMBDA (X)
  (BLOCK)
  (AND (CCODEP X)
        (PROG ((Y (CALLSCCODE X))
                (|for| Z |in| (CADR Y) |do| (|pushnew| (GETPROP Z 'CALLEDBY)
                                                       X)
                (|for| Z |in| (CADDR Y) |do| (|pushnew| (GETPROP Z 'BOUNDBY)
                                                       X)
                (|for| Z |in| (CADDR Y) |do| (|pushnew| (GETPROP Z 'USEDFFREEBY)
                                                       X)
                (|for| Z |in| (CAR (CDDDDR Y)) |do| (|pushnew| (GETPROP Z 'USEDGLOBALBY)
                                                               X)))))) ; Edited 18-Dec-86 19:00 by Pavel
```

)

{MEDLEY}<lispusers>WHOCALLS.;1

(PUTPROPS **CALLEDBY PROPTYPE** IGNORE)

(PUTPROPS **USEDFREEBY PROPTYPE** IGNORE)

(PUTPROPS **USEDGLOBALBY PROPTYPE** IGNORE)

(PUTPROPS **BOUNDBY PROPTYPE** IGNORE)

(PUTPROPS **WHOCALLS COPYRIGHT** ("Xerox Corporation" 1986))

FUNCTION INDEX

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DISTRIBUTE.CALLINFO1 WHOCALLS11

PROPERTY INDEX

BOUNDBY2 CALLEDBY2 USEDFREEBY2 USEDGLOBALBY2
