

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 PROTYPE CALLED BY USED FREE BY USED GLOBAL BY BOUND BY)))
```

(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 USED FREE GLOBALS))
                              ' (BOUND USED FREE GLOBALS))
                              (\\ILLEGAL.ARG TYPE))))
        'VARAPPLY
        |else| (SELECTQ USAGE
          ((USES VAR VARS BOUND USED FREE GLOBALS)
           (SETQ USAGE 'USES)
           'VARAPPLY)
          ((BOUND USED FREE GLOBALS)
           (SETQ USAGE (LIST USAGE))
           'VARAPPLY)
          ((NIL CALLS)
           'FNAPPLY)
          (\\ILLEGAL.ARG USAGE))))
    VAL)
  (MAPATOMS (FUNCTION WHOCALLS1))
  (RETURN VAL))))
```

(WHOCALLS1

```
(LAMBDA (FN)
  (DECLARE (USED FREE 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) ; Edited 18-Dec-86 19:00 by Pavel
  (AND (CCODEP X)
    (PROG ((Y (CALLSCCODE X))
      (|for| Z |in| (CADR Y) |do| (|pushnew| (GETPROP Z 'CALLED BY)
        X)
      (|for| Z |in| (CADDR Y) |do| (|pushnew| (GETPROP Z 'BOUND BY)
        X)
      (|for| Z |in| (CADDR Y) |do| (|pushnew| (GETPROP Z 'USED FREE BY)
        X)
      (|for| Z |in| (CAR (CDDDDR Y)) |do| (|pushnew| (GETPROP Z 'USED GLOBAL BY)
        X))))))
```

)

```
{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))
```

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PROPERTY INDEX

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