

File created: 27-Apr-94 15:43:27 {DSK}<king>export>lispcore>sources>RENAMEMACROS.;2

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

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```

(RPAQQ **RENAMEMACROSCOMS**

(;; MACROS FOR CODE THAT NEEDS TO CHANGE WHEN YOU RUN IT RENAMED.

[COMS ; Things that change when we're renaming for
; RDSYS/TELERAID

(ADDVARS (RD.SUBFNS (UNLESSRDSYS . 2ND)
(\GETBITS . RNGETBITS)
(\PUTBITS . RNPUTBITS)

[COMS ; Things that change when we're making I-NEW, for building a
; new loadup.

(ADDVARS (MKI.SUBFNS (UNLESSINew . 2ND)
(\GETBITS . RNGETBITS)
(\PUTBITS . RNPUTBITS)

;; Force these macros to be expanded while renaming:

(ADDVARS (EXPANDMACROFNS 1ST 2ND UNLESSRDSYS UNLESSINew RNGETBITS RNPUTBITS \TESTBITS)
(EXPANDMACROFNS ADDBASE GETBASE GETBASEBYTE GETBASEPTR HILOC LOLOC PUTBASE PUTBASEBYTE PUTBASEPTR
REPLACEPTRFIELD VAG2 PAGEBASE PAGELOC))

;; MACROS TO CONTROL EFFECTS:

;; (UNLESSRDSYS normal rdsys) expands to one form or the other, depending on whether you're making a RDSYS.

;; (UNLESSINew normal inew) expands to one form or the other, depending on whether you're making an I-NEW.

;; (1ST ...) expands to its first argument

;; (2ND ...) expands to its second argument. These are used in expanding UNLESS...

(EXPORT (MACROS UNLESSRDSYS UNLESSINew 1ST 2ND LOCAL ALLOCAL)
(MACROS ADDBASE GETBASE GETBASEBYTE GETBASEPTR HILOC LOLOC PUTBASE PUTBASEBYTE PUTBASEPTR
REPLACEPTRFIELD VAG2 PAGEBASE PAGELOC))
(MACROS RNPUTBITS RNGETBITS)))

;; MACROS FOR CODE THAT NEEDS TO CHANGE WHEN YOU RUN IT RENAMED.

;; Things that change when we're renaming for RDSYS/TELERAID

(ADDTovar **RD.SUBFNS** (UNLESSRDSYS . 2ND)
(\GETBITS . RNGETBITS)
(\PUTBITS . RNPUTBITS))

;; Things that change when we're making I-NEW, for building a new loadup.

(ADDTovar **MKI.SUBFNS** (UNLESSINew . 2ND)
(\GETBITS . RNGETBITS)
(\PUTBITS . RNPUTBITS))

;; Force these macros to be expanded while renaming:

(ADDTovar **EXPANDMACROFNS** 1ST 2ND UNLESSRDSYS UNLESSINew RNGETBITS RNPUTBITS \TESTBITS)

(ADDTovar **EXPANDMACROFNS** ADDBASE GETBASE GETBASEBYTE GETBASEPTR HILOC LOLOC PUTBASE PUTBASEBYTE PUTBASEPTR
REPLACEPTRFIELD VAG2 PAGEBASE PAGELOC)

;; MACROS TO CONTROL EFFECTS:

;; (UNLESSRDSYS normal rdsys) expands to one form or the other, depending on whether you're making a RDSYS.

;; (UNLESSINew normal inew) expands to one form or the other, depending on whether you're making an I-NEW.

;; (1ST ...) expands to its first argument

;; (2ND ...) expands to its second argument. These are used in expanding UNLESS...

;; FOLLOWING DEFINITIONS EXPORTED

(DECLARE%: EVAL@COMPILE

(PUTPROPS **UNLESSRDSYS MACRO** ((NORMAL RDSYS)
NORMAL))

(PUTPROPS **UNLESSINew MACRO** ((NORMAL I-NEW)
NORMAL))

(PUTPROPS **1ST MACRO** ((A . B)
A))

(PUTPROPS **2ND MACRO** ((A B . C)

```

        B))

(PUTPROPS LOCAL MACRO ((X)
                        X))

(PUTPROPS ALLOCAL MACRO ((X)
                          X))
)

(DECLARE%: EVAL@COMPILE

(PUTPROPS ADDBASE DMACRO (= . \ADDBASE))

(PUTPROPS GETBASE DMACRO (= . \GETBASE))

(PUTPROPS GETBASEBYTE DMACRO (= . \GETBASEBYTE))

(PUTPROPS GETBASEPTR DMACRO (= . \GETBASEPTR))

(PUTPROPS HILOC DMACRO (= . \HILOC))

(PUTPROPS LOLOC DMACRO (= . \LOLOC))

(PUTPROPS PUTBASE DMACRO (= . \PUTBASE))

(PUTPROPS PUTBASEBYTE DMACRO (= . \PUTBASEBYTE))

(PUTPROPS PUTBASEPTR DMACRO (= . \PUTBASEPTR))

(PUTPROPS REPLACEPTRFIELD DMACRO (= . \RPLPTR))

(PUTPROPS VAG2 DMACRO (= . \VAG2))

(PUTPROPS PAGEBASE MACRO ((PTR)
                          (fetch (POINTER PAGEBASE) of PTR)))

(PUTPROPS PAGELOC MACRO (OPENLAMBDA (PTR)
                                (IPLUS (LLSH (\HILOC PTR)
                                         8)
                                         (LRSH (\LOLOC PTR)
                                         8))))
)

;; END EXPORTED DEFINITIONS

(DECLARE%: EVAL@COMPILE

(PUTPROPS RNPUTBITS MACRO (X ([LAMBDA (DATUM OFFSET FD NEWVALUE)
                                (PROG ((MASK (BitFieldMask FD))
                                         (SHIFT (BitFieldShift FD))
                                         (FIRST (BitFieldFirst FD)))
                                         (OR (EQ FIRST 0)
                                              (SETQ NEWVALUE (LIST 'LOGAND NEWVALUE MASK)))
                                         (OR (EQ SHIFT 0)
                                              (SETQ NEWVALUE (LIST 'LLSH NEWVALUE SHIFT)))
                                         [COND
                                          ((AND (EQ FIRST 0)
                                                  (EQ SHIFT 0))
                                           (SETQ NEWVALUE (LIST '\PUTBASE DATUM OFFSET NEWVALUE)))
                                          (T (SETQ NEWVALUE (LIST 'LOGOR (LIST 'LOGAND (LIST '\GETBASE
                                                                                      '$$PUTBITS OFFSET)
                                                                                      (LOGXOR 65535 (LLSH MASK SHIFT))
                                                                                      )
                                                                    NEWVALUE)))
                                           (SETQ NEWVALUE (LIST (LIST 'OPENLAMBDA '($$PUTBITS)
                                                                    (LIST '\PUTBASE '$$PUTBITS OFFSET
                                                                    NEWVALUE))
                                                                    DATUM])
                                          [COND
                                           ((NOT EFF)
                                            (OR (EQ SHIFT 0)
                                                 (SETQ NEWVALUE (LIST 'LRSH NEWVALUE SHIFT)))
                                            (OR (EQ FIRST 0)
                                                 (SETQ NEWVALUE (LIST 'LOGAND NEWVALUE MASK]
                                            (RETURN NEWVALUE]
                                          (CAR X)
                                          (CADR X)
                                          (CADDR X)
                                          (CADDRR X))))
                                (PUTPROPS RNGETBITS MACRO (X ([LAMBDA (FORM OFFSET FD)
                                (COND
                                 ((NOT (FIXP FD))
                                  'IGNOREMACRO)
                                 (T (SETQ FORM (LIST '\GETBASE FORM OFFSET))
                                  [OR (EQ (BitFieldShift FD)
                                         0)

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      (SETQ FORM (LIST 'LRSH FORM (BitFieldShift FD)
[OR (EQ (BitFieldFirst FD)
      0)
      (SETQ FORM (LIST 'LOGAND FORM (BitFieldMask FD)
FORM]
(CAR X)
(CADR X)
(CADDR X)))
)
(PUTPROPS RENAMEMACROS COPYRIGHT ("Venue & Xerox Corporation" 1982 1985 1986 1990 1994))
```

MACRO INDEX

1ST1	GETBASEBYTE2	PAGEBASE2	REPLACEPTRFIELD ...2	VAG22
2ND1	GETBASEPTR2	PAGELOC2	RNGETBITS2	
ADDBASE2	HILOC2	PUTBASE2	RNPUTBITS2	
ALLOCAL2	LOCAL2	PUTBASEBYTE2	UNLESSINew1	
GETBASE2	LOLOC2	PUTBASEPTR2	UNLESSRDSYS1	

VARIABLE INDEX

EXPANDMACROFNS1	MKI.SUBFNS1	RD.SUBFNS1
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