```
10-May-88 15:41:17 {DSK}<LISPFILES>LOOPS>LYRIC>RULES>LOOPSRULESTTY.:3
   File created:
     changes to:
                                      (FNS RS.INTTY RS.INTTYL RS.WRITE RS.CHECKREPLY)
                                      (VARS LOOPSRULESTTYCOMS)
                                     10-May-88 13:23:02 {DSK}<LISPFILES>LOOPS>LYRIC>RULES>LOOPSRULESTTY.;1
previous date:
    Read Table:
                                     XCT.
          Package:
                                     INTERLISP
                Format:
                                         XCCS
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(RPAQQ LOOPSRULESTTYCOMS
                   ((* * | Simplified | TTY | handling | | fns. | | Written | | by | | Mark | | Stefik. | )
                      (FNS RS.CHECKREPLY)
                      (VARS (|tty| T))
                      (DECLARE\: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVARS (ADDVARS (NLAMA)
                                                                                                                                                                                                                 (LAMA RS.WRITE)))))
                           (* * |Simplified| TTY |handling| |fns.| |Written| |by| |Mark| |Stefik.|)
(DEFINEQ
(RS.INTTY
      (LAMBDA (|promptStr| |goodList| |helpStr| |noShiftFlg| |initialAtom|)
                                                                                                                                                                              ; Edited 10-May-88 15:37 by hwl
                           (* RS.INTTY |is| \a |routine| |which| |returns| |an| |atom| |typed| |by| |the| |User| |at| \a |terminal.| |If |the| |User| |has| |not| |yet| |typed| |anything| |and| \a |promptStr| |has| |been| |supplied,| |it| |is| |typed| |as| \a |prompt| |to| |the| |User.| (|If |the| |User| |has| |typed| |ahead.| |the| |prompt| |is| |suppressed.|) |goodList| (|if| |given|) |is| \a |list| |of| |acceptable| |answers.| |If |the| |first| |characters| |typed| |by| |the| |User| |correspond| |to| |the| |first| |characters| |of| |any| |element| |of| |goodlist,| |that| |element| |is| |returned| |as| |the| |value| |of| |INTTY.| |If |goodList| |is| |supplied| |and| |the| |User| |types| |reprompted.| |the| |User| |types| |reprompted.| |the| |User| |types| |a |semicolon.| |the| |entire| |message| |after| |it| |will| |be| |treated| |as| \a |comment.|
                           |Note: | I/f |the | | User | | types | \a |semicolon, | |the | |entire | |message | |after | |it | |will | |be | |treated | |as | \a |comment. |
                           MJS)
           (PROG ( reply (CRLF (CHARACTER 13))
                                               (SPACE (CHARACTER 32))
                                              |promptedInitial|)
                            (COND
                                   ((AND |goodList| (NOT |noShiftFlg|)) (*|Capitalize||Goodlist||It (SETQ |goodList| (|for| |Item| |in| |goodList| |collect| (U-CASE |Item|)))))
                                                                                                                                                                              (* |Capitalize| |Goodlist| |Items.|)
                                   ((READP | tty|)
                                      (COND
                                              ((EQ SPACE (PEEKC | tty |))
                                                                                                                                                                              (* |Eliminate| |leading| |blanks.|)
                                                 (READC | tty |)
                                   (GO |ReadLoop|))))
(|promptStr| (PRIN1 |promptStr| |tty|)
                                                               ((AND |initialAtom | (NOT |promptedInitial |)) (SETQ |promptedInitial | T)
                           (|do| (PROGN (SETQ |char| (READC |tty|))
                                                                                                                  (COND
                                                                                                                          ((AND
                                                                                                                                          (NULL |chars|)
                                                                                                                                           |promptStr|
                                                                                                                                           (EQ |char| CRLF))
                                                                                                                                                                              (* |Re-prompt| |if| |just| CRLF |typed.|)
                                                                                                                             (PRIN1 |promptStr| T))
                                                                                                                                       (EQ | char | SPACE | S
                                                                                                                          ((OR (EO
                                                                                                                             (COND
                                                                                                                          (|chars| (SETQ |doneflg| T))))
(T_(SETQ |chars| (CONS |char| |chars|)))))
                                                                                         |until| |doneflg|)
                                                                                  (RETURN (PACK (DREVERSE | chars |)))))
                            (COND
                                   ((EQ |reply| '?)
                                      (COND
                                              (|helpStr| (RS.WRITE |helpStr|)
                                                                 (COND
                                              (|goodList| (RS.WRITE "Expecting one of: " |goodList|))))
(|goodList| (RS.WRITE "Expecting one of: " |goodList|))
(T (RS.WRITE "(Sorry -- No Help Provided)"))))
                                   ((STRPOS ";" |reply| 1 NIL T))
((NOT (ATOM |reply|))
```

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(RS.WRITE "Invalid response. Expecting one of: " |goodList|))
                        (T (COND
                                   ((NOT |noShiftFlg|)
                                     (SETQ | reply | (U-CASE | reply | ) ) ))
                                   ((SETQ | reply | (RS.CHECKREPLY | reply | goodList |))
                                    (RETURN | reply | ) ) ) )
                  (CLEARBUF)
                  (GO | ReadLoop | ) ) ) )
(RS.INTTYL
   (LAMBDA (|promptStr| |goodList| |helpStr| |noShiftFlg| |initialList|)
                                                                                                                        ; Edited 10-May-88 15:37 by hwl
                 (* RS.INTTYL | returns| \a | list | typed | by | the | User | at | the | terminal.]

\[ \text{If the | User | has | not | yet | typed | anything | and \a | promptStr | has | been | supplied, | it | is | typed | as \a | prompt | to | the | User.] (I/ | the | User | has | typed | ahead, | the | prompt | is | suppressed.]) | goodList |
\[ \text{(|optional|) | is | \a | list | of | acceptable | answers.] | \text{If | the | leading | characters | correspond | to | any | element | of | goodList, | that | element | is | added | to | the | list | returned.] | \text{If | goodList | is | supplied | an | the | User's | reply | matches | no | entry, | he | is | warned | and | reprompted. | helpStr | is | \a | help | message | supplied | to | the | User | if | he | types \a | question | mark. | Note: | \text{If | the | User | types | \a | semicolon, | the | entire | message | after | it | will | be | treated | as | \a | comment. | \text{If | the | User | iyes | \a | carriage | return, | then | \text{NIL | will | be | returned.} | \text{If | in | will | be | returned | as | typed.} \]
                  |it| |it| |is| T\, |it| |will| |be| |returned| |as| |typed.|)
       (PROG (|reply| (CRLF (CHARACTER 13))
                               (SPACE (CHARACTER 32))
                               |promptedInitial|)
                  (COND
                        ((AND | goodList | (NOT | noShiftFlg | ))
                                                                                                                       (* |Capitalize| |the| |Goodlist| |items.|)
                         ReadLoop
                  (COND
                        ((READP | tty|)
                          (COND
                               ((EQ SPACE (PEEKC | tty|))
                                 (READC |tty|)
                                 (GO | ReadLoop |))))
                        (|promptStr| (PRIN1 |promptStr| |tty|)
                                     (COND
                                          ((AND |initialList| (NOT |promptedInitial|))
(SETQ |promptedInitial| T)
(SETQ |initialList| (SUBSTRING (MKSTRING |initialList|)
                                                                                              2 - 2))
                                            (BKSYSBUF | initialList | ) ) ) )
                  (SETQ |reply | (COND
                                                  ((EQ CRLF (PEEKC | tty|))
                                                                                                                       (* |Return| NIL (|empty| |list|) |if| |User| |just| |types| CRLF.)
                                                    (READC |tty|)
                                                   NIL)
                                                  (T (|for| |char| |collect| (PROG (|chars| |doneFlg|)
                                                                                                       (|do| (PROGN (SETQ |char | (READC |tty|))
                                                                                                                              (COND
                                                                                                                                   ((OR (EQ |char | SPACE)
                                                                                                                          (EQ | char | CRLF))
| Done | | if | SPACE | or | | Return | | Typed--
                                                                                                                        |even| |if| |no| |chars| |typed.|)
                                                                                                                                                                  T))
                                                                                                                                     (SETQ | doneFlg |
                                                                                                                                                                 (CONS | char | | chars | ) ) ) ) )
                                                                                                                                   (T (SETQ | chars
                                                                                                            |until| |doneFlg|)
                                                                                                       (RETURN (PACK (DREVERSE | chars |))))
                                                             |until (EQ |char | CRLF)))))
                  (COND
                        ((NOT |reply|)
                          (RETURN)))
                  (COND
                        ((FMEMB '? |reply|)
                          (COND
                               (|helpStr| (RS.WRITE |helpStr|)
                                           (COND
                               (|goodList| (RS.WRITE "Expecting subset of: " |goodList|))))
(|goodList| (RS.WRITE "Expecting subset of: " |goodList|))
(T (RS.WRITE "(Sorry -- No Help Provided)"))))
                        ((STRPOS ";" |reply| 1 NIL T))
                             ((NOT |noShiftFlg|)
    (SETQ |reply| (U-CASE |reply|))))
(SETQ |reply| (|for| X |in| (MKLIST |reply|) |collect| (RS.CHECKREPLY X |goodList|)))
                             (COND
                                  ((NOTANY | reply | (FUNCTION NULL))
(RETURN | reply | )))))
                  (CLEARBUF)
                  (GO | ReadLoop | ) ) ) )
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{MEDLEY} < loops > obsolete > LOOP SRULESTTY.; 1 (RS.WRITE cont.)
                                                                                                                                                      Page 3
     (PROG ((I 0))
        TOP (|while| (ILESSP I |nargs|) |do| (PRIN1 (ARG |nargs| (SETQ I (ADD1 I)))))
              (TERPRI))))
)
              (* * |Internal| |fns| |not| |called| |directly| |by| |User.|)
(DEFINEQ
(RS.CHECKREPLY
   (LAMBDA (|reply| |goodList| |possibilities|)
                                                                                           ; Edited 10-May-88 12:57 by hwl
              (* RS.CHECKREPLY |is| \a |subroutine| |of| RS.INTTY |and| RS.INTTYL.
              i\t |tries| |to| |match| |the| |reply| |against| |the| |items| |in| |goodList| |as| |described| |below.|)
     (COND
                                                                                          (* I\f |goodList=NIL,| |no| |work| |to| |do.|)
          ((NULL |goodList|)
           replv|)
                                                                                           (* I\f |spelling| |is| |correct,| |no| |work| |to| |do.|)
          ((MEMBER |reply| |goodList|)
           reply)
          ((SETQ | possibilities | (|for| X |in| | goodList | |when| (STRPOS | reply | X 1 NIL T) |collect | X))

(* |Match | |if | |an | |exact | |leading | |substring | |of | 1 | |item | |in| |
                                                                                          |goodList.|)
           (COND
               ((CDR |possibilities|)
(RS.WRITE "Ambiguous: " |possibilities|)
                NIL)
         NIL)
(T (CAR | possibilities | ))))
((FIXSPELL | reply | 70 | goodList | T))
((SETQ | possibilities | (|for | X |in | | goodList | | when | (STRPOS X | reply | 1 NIL T) | collect | X))
(*|Match | |if | one | | goodList | | leading | | substring | | of |
                                                                                          reply.|)
           (COND
               ((CDR |possibilities|)
                 (RS.WRITE "Ambiguous: " |possibilities|))
          (T (CAR |possibilities|))))
(T (RS.WRITE "Response not recognized. Type ? for help.")))))
)
(RPAQQ |tty| T)
(DECLARE\: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVARS
(ADDTOVAR NLAMA )
(ADDTOVAR NLAML )
(ADDTOVAR LAMA RS.WRITE)
```

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{MEDLEY}<loops>obsolete>LOOPSRULESTTY.;1 30-Jun-2024 08:54:28 -- Listed on 30-Jun-2024 09:23:26 --

VARIABLE INDEX

|tty|3