```
changes to:
                (VARS RPCLOWLEVELCOMS)
                (FNS STRING.ZEROBYTES)
previous date:
                8-Aug-88 11:13:29 {ERINYES}<LISPUSERS>MEDLEY>RPCLOWLEVEL.;2
 Read Table:
               INTERLISP
    Package:
               INTERLISP
       Format:
                 XCCS
;; Copyright (c) 1987, 1988 by Stanford University and Xerox Corporation. All rights reserved.
(RPAQQ RPCLOWLEVELCOMS
        [(PROPS (RPCLOWLEVEL MAKEFILE-ENVIRONMENT FILETYPE))
         (FNS TCP.STREAM.SOCKET TCP.SOCKET.EVENT STRING.ZEROBYTES STRING.BOUTS STRING.BINS \IP.APPEND.BYTES UDP.APPEND.BYTES UDP.MYGET.STRING \UDP.SET.CHECKSUM.ZERO)
         (DECLARE%: EVAL@COMPILE DONTCOPY (FILES (SOURCE)
                                                      TCPEXPORTS))
         (DECLARE%: DONTEVAL@LOAD DOCOPY (P (CHANGENAME 'UDP.SEND '\UDP.SET.CHECKSUM '\UDP.SET.CHECKSUM.ZERO])
(PUTPROPS RPCLOWLEVEL MAKEFILE-ENVIRONMENT (:READTABLE "INTERLISP" :PACKAGE "INTERLISP"))
(PUTPROPS RPCLOWLEVEL FILETYPE : COMPILE-FILE)
(DEFINEO
(TCP.STREAM.SOCKET
  [LAMBDA (STREAM)
                                                                         ; Edited 27-Apr-88 21:51 by drc:
;;; Return IPSOCKET of a TCP Stream
     (fetch TCB.IPSOCKET of (fetch F1 of STREAM])
(TCP.SOCKET.EVENT
                                                                         ; Edited 27-Apr-88 21:51 by drc:
  [LAMBDA (IPSOCKET)
;;; For some reason Eric did not include this function, but it is identical to UDP.SOCKET.NUMBER, anyway.
    (fetch (IPSOCKET IPSEVENT) of IPSOCKET])
(STRING.ZEROBYTES
                                                                         ; Edited 5-Aug-88 18:20 by bvm
  [LAMBDA (STRING FIRST NBYTES)
::: Zero bytes of a string
    (\CLEARBYTES (fetch (STRINGP BASE) of STRING)
            FIRST NBYTES])
(STRING.BOUTS
  [LAMBDA (STREAM STRING FIRST NBYTES)
                                                                         ; Edited 27-Apr-88 21:51 by drc:
;;; Write substring to stream
    (\BOUTS STREAM (fetch (STRINGP BASE) of STRING)
            FIRST NBYTES])
(STRING.BINS
  [LAMBDA (STREAM STRING FIRST NBYTES)
                                                                         ; Edited 27-Apr-88 21:51 by drc:
;;; Read substring from stream
    (\BINS STREAM (fetch (STRINGP BASE) of STRING)
            FIRST NBYTES])
(\IP.APPEND.BYTES
                                                                         ; Edited 27-Apr-88 21:51 by drc:
  [LAMBDA (IP ADDR OFFSET LENGTH)
;;; Append bytes (not necessarily a string) to IPPACKET.
    (\MOVEBYTES ADDR OFFSET (fetch (IP IPBASE) of IP)
            (fetch (IP IPTOTALLENGTH) of IP)
            LENGTH)
    (add (ffetch (IP IPTOTALLENGTH) of IP)
          LENGTH1)
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8-Aug-88 11:21:37 {ERINYES}<LISPUSERS>MEDLEY>RPCLOWLEVEL.;3

File created:

(UDP.APPEND.BYTES

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{MEDLEY}spusers>RPCLOWLEVEL.;1 (UDP.APPEND.BYTES cont.)
  [LAMBDA (UDP ADDR OFFSET NBYTES)
                                                                         ; Edited 27-Apr-88 21:52 by drc:
;;; Append bytes (not necessarily a string) to UDP Packet
     (\IP.APPEND.BYTES UDP ADDR OFFSET NBYTES)
     (add (fetch (UDP UDPLENGTH) of UDP)
          NBYTES])
(UDP.GET.BYTES
  [LAMBDA (UDP SOFFSET DEST DOFFSET NBYTES)
                                                                         ; Edited 27-Apr-88 21:52 by drc:
;;; Move bytes out of UDP Packet to another buffer without string creation
    (\MOVEBYTES (fetch (UDP UDPCONTENTS) of UDP)
            SOFFSET DEST DOFFSET NBYTES)
    DEST])
(UDP.MYGET.STRING
  [LAMBDA (UDP OFFSET LENGTH)
                                                                         ; Edited 27-Apr-88 21:52 by drc:
;;; Fetch string from packet. String does not go to end of packet as in UDP.GET.STRING.
     (OR (SMALLP OFFSET)
         (SETQ OFFSET 0))
     (LET* ((STRING (ALLOCSTRING LENGTH)))
           (\MOVEBYTES (fetch (UDP UDPCONTENTS) of UDP)
                   (fetch (STRINGP BASE) of STRING)
(fetch (STRINGP OFFST) of STRING)
                   LENGTH)
           STRING])
(\UDP.SET.CHECKSUM.ZERO
  [LAMBDA (UDP)
                                                                         ; Edited 27-Apr-88 21:52 by drc:
;;; Avoid doing a UDP checksum. Packet already gets IP Checksum.
     (replace (UDP UDPCHECKSUM) of UDP with 0])
(DECLARE%: EVAL@COMPILE DONTCOPY
(FILESLOAD (SOURCE)
       TCPEXPORTS)
(DECLARE%: DONTEVAL@LOAD DOCOPY
(CHANGENAME 'UDP.SEND '\UDP.SET.CHECKSUM '\UDP.SET.CHECKSUM.ZERO)
(PUTPROPS RPCLOWLEVEL COPYRIGHT ("Stanford University and Xerox Corporation" 1987 1988))
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{MEDLEY}lispusers>RPCLOWLEVEL.;1 28-Jun-2024 18:34:03 -- Listed on 30-Jun-2024 13:14:49 --

FUNCTIO	N INDEX
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STRING.BOUTS1	TCP.SOCKET.EVENT		\UDP.SET.CHECKSUM.ZERO2
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PROPERTY INDEX

RPCLOWLEVEL1