```
10-May-88 00:46:44 {ERINYES}<LISPUSERS>MEDLEY>IRISNET.;1
 File created:
previous date:
                4-Feb-87 19:47:55 {ERINYES}<LISPUSERS>LYRIC>IRISNET.;1
 Read Table:
               INTERLISP
    Package:
               INTERLISP
      Format:
                XCCS
;; Copyright (c) 1988 by Xerox Corporation. All rights reserved.
(RPAQQ IRISNETCOMS
        ([DECLARE%: EVAL@LOAD DONTCOPY (P (LOADCOMP 'LLETHER)
                                              (LOADCOMP 'ETHERRECORDS]
         (FNS IRIS.RESET IRIS.TRACE IRISBOOTPROCESS SENDIRISPACKET IRISFILTER OPEN.IRISCONN IRISBOOTSERVER)
         (VARS \IRIS.VERBOSE (PRINTSPPDATAFLG T))
         (VARS (IRIS.LOCK (CREATE.MONITORLOCK "iris boot lock")))
         (GLOBALVARS IRISNSHOSTNUMBER)
         [INITVARS (IRISNET 146)
                (IRISBOOTDIRECTORIES '({CORE} {ERIS}<IRIS>gl2>boot>]
         (CONSTANTS (IRISSOCKET 37)
(IRIS.PACKETTYPE 32790)
         (IRIS.BOOT.STREAM.NAME '| IRIS boot SPP|))
[DECLARE%: EVAL@LOAD DONTCOPY (FILES ETHERRECORDS)
(P (LOADCOMP 'LLETHER]
         [P (ACCESSFNS IRISENCAPSULATION [(IRISBASE (LOCF (FETCH (ETHERPACKET EPENCAPSULATION)
                                                                       OF DATUM]
                    [BLOCKRECORD IRISBASE ((IRISLENGTH WORD)
                                              (IRISDESTHOSTO 3 WORD)
                                              (IRISSOURCEHOSTO 3 WORD)
                                              (IRISTYPE WORD)
                                              (IRISEXCHID WORD)
                                              (INFOCHAR1 BYTE)
                                              (INFOCHAR2 BYTE))
                            [ACCESSFNS IRISDESTHOSTO ((IRISDESTHOST (\LOADNSHOSTNUMBER (LOCF DATUM))
                                                                (\STORENSHOSTNUMBER (LOCF DATUM)
                                                                        NEWVALUE))
                                                         (IRISPACKETBASE (LOCF DATUM))
                                                         (IRISDESTHOSTBASE (LOCF DATUM)
                            (ACCESSFNS IRISSOURCEHOSTO ((IRISSOURCEHOST (\LOADNSHOSTNUMBER (LOCF DATUM))
                                                                   (\STORENSHOSTNUMBER (LOCF DATUM)
                                                                          NEWVALUE))
                                                           (IRISSOURCEHOSTBASE (LOCF DATUM)
                    (TYPE? (type? ETHERPACKET DATUM]
         (MACROS BROADCASTP)))
(DECLARE%: EVAL@LOAD DONTCOPY
(LOADCOMP 'LLETHER)
(LOADCOMP 'ETHERRECORDS)
(DEFINEO
(IRIS.RESET
                                                                       (* gbn "24-Jun-85 01:31")
  [LAMBDA NIL
    (PROG (PROC)
           (CLOSEF? '{DSK}IRISBOOTFILE)
           (if (SETQ PROC (FIND.PROCESS IRIS.BOOT.STREAM.NAME))
               then (DEL.PROCESS PROC))
              (SETQ PROC (FIND.PROCESS ' | Iris Terminal SPP | ))
               then (DEL.PROCESS PROC))
              (SETQ PROC (FIND.PROCESS 'IRISBOOTPROCESS))
               then (DEL.PROCESS PROC))
           (PROCESS.STATUS.WINDOW (CREATEPOSITION 5 5])
(IRIS.TRACE
  [LAMBDA NIL
                                                                       (* gbn "25-Feb-86 12:24")
    (SETQ PRINTSPPDATAFLG NIL)
    (SETQ XIPIGNORETYPES '(1 TRANS))
    (XIPTRACE T])
(IRISBOOTPROCESS
                                                                       (* gbn "12-Nov-85 23:16")
           (IRISPACKET)
     (DECLARE (GLOBALVARS IRISBOOTDIRECTORIES IRISNSADDRESS IRIS.LOCK IRISNET IRISNSHOSTNUMBER))
     (COND
        ((OBTAIN.MONITORLOCK IRIS.LOCK T T)
         [PROG (DH CHAR NET IRISBOOTFILE INBOOTSTREAM OUTBOOTSTREAM IRISBOOTFILENAME BOOTFILENAME TEMP)
               (SETQ DH (fetch (IRISENCAPSULATION IRISSOURCEHOST) of IRISPACKET))
(SETQ CHAR (fetch (IRISENCAPSULATION INFOCHAR1) of IRISPACKET))
                (replace (IRISENCAPSULATION IRISDESTHOST) of IRISPACKET with (SETQ IRISNSHOSTNUMBER
```

(fetch (IRISENCAPSULATION

```
IRISSOURCEHOST)
                                                                                               of IRISPACKET)))
                 (replace (IRISENCAPSULATION IRISSOURCEHOST) of IRISPACKET with \MY.NSHOSTNUMBER)
                     (\IRIS.VERBOSE
                                                                                (* inform the user that a boot attempt is being made)
                             (FLASHWINDOW PROMPTWINDOW)
                             (FLASHWINDOW PROMPINION)
(PROMPTPRINT (CONCAT "IRIS boot initiated to: " DH]

(* "E" for "reply" to booting and "H" for "hostname" for spp
                                                                                connection)
                 (SETQ NET (fetch (XIP XIPSOURCENET) of IRISPACKET))
                 (SETQ IRISNSADDRESS (create NSADDRESS
                                                  NSNET IRISNET
                                                  NSHOSTNUMBER _ IRISNSHOSTNUMBER))
            (* this should be using the net from the iris, but it can't be trusted.
            SGI doesn't handle turning around packets properly)
                 (COND
                     ((EQ CHAR (CHARCODE C))
                                                                                (* replace EPSOCKET of IRISPACKET with 41)
                      (replace (IRISENCAPSULATION INFOCHAR1) of IRISPACKET with (CHARCODE E))
                                                                                (* just sends back an "E" packet with our host socket (41) filled in)
                      (SENDIRISPACKET IRISPACKET)
                      (SETQ INBOOTSTREAM (SPP.OPEN NIL 41 NIL IRIS.BOOT.STREAM.NAME)) (SETQ OUTBOOTSTREAM (SPPOUTPUTSTREAM INBOOTSTREAM))
                      (SPP.DSTYPE INBOOTSTREAM 108)
                                                                                (* returns a connection which is not vet established)
                      (BIN INBOOTSTREAM)
                      [SETQ TEMP (CONCAT (PACKC (while (SPP.READP INBOOTSTREAM) collect (BIN INBOOTSTREAM] [SETQ BOOTFILENAME (L-CASE (SUBSTRING TEMP (STRPOS ":*:" TEMP 1 NIL NIL T) (SUB1 (STRPOS (CONCAT (CHARACTER 0))
                                                                                 TEMP1
                      [COND
                          ((STREQUAL BOOTFILENAME (CONSTANT "defaultboot"))
                           (SETQ BOOTFILENAME (CONSTANT "iris"] (* This is a packet specifying the boot file name,)
                      [SETQ IRISBOOTFILE (OPENSTREAM (SETQ IRISBOOTFILENAME (FINDFILE BOOTFILENAME NIL
                                                                                                  IRISBOOTDIRECTORIES))
                                                      'INPUT NIL '((TYPE BINARY]
                      [COND
                          (\IRIS.VERBOSE
                                                                                (* inform the user that a boot attempt is being made)
                                  (PROMPTPRINT (CONCAT "Booting IRIS from: " IRISBOOTFILENAME]
                      (COPYBYTES IRISBOOTFILE OUTBOOTSTREAM NIL NIL)
                      (FORCEOUTPUT OUTBOOTSTREAM)
                      (CLOSEF IRISBOOTFILE)
                      (PROMPTPRINT "IRIS boot server complete, closing boot file")
                      (CLOSEF INBOOTSTREAM))
                     ((EQ CHAR (CHARCODE A)) (* replace EPSOCKET of IRIS (replace (IRISENCAPSULATION INFOCHAR1) of IRISPACKET with (CHARCODE E))
                                                                                (* replace EPSOCKET of IRISPACKET with 41)
                      (SENDIRISPACKET IRISPACKET)
                                                                                (* just sends back an "E" packet with our host socket
                                                                                (41) filled in)
                      (SETQ INBOOTSTREAM (SPP.OPEN NIL 41 NIL IRIS.BOOT.STREAM.NAME)) (SETQ OUTBOOTSTREAM (SPPOUTPUTSTREAM INBOOTSTREAM))
                      (SPP.DSTYPE INBOOTSTREAM 108)
                                                                                (* returns a connection which is not yet established)
                      (BIN INBOOTSTREAM)
(while (SPP.READP INBOOTSTREAM) collect (BIN INBOOTSTREAM))

(*This is a packet specifying the boot file name,)

(*This is a packet specifying the boot file name,)
                      [SETQ IRISBOOTFILE (OPENSTREAM (SETQ IRISBOOTFILENAME (FINDFILE BOOTFILENAME NIL
                                                                                                  IRISBOOTDIRECTORIES))
                                                      'INPUT NIL '((TYPE BINARY]
                      [COND
                          (\IRIS.VERBOSE
                                                                                (* inform the user that a boot attempt is being made)
                                   (PROMPTPRINT (CONCAT "Booting IRIS from: " IRISBOOTFILENAME]
                      (COPYBYTES IRISBOOTFILE OUTBOOTSTREAM NIL NIL)
                      (FORCEOUTPUT OUTBOOTSTREAM)
                      (CLOSEF IRISBOOTFILE)
                      (PROMPTPRINT "IRIS boot server complete, closing boot file")
                      (CLOSEF INBOOTSTREAM))
                                                                                (* serv-hostname in SGIspeak)
(* replace EPSOCKET of IRISPACKET with 41)
                     ((EQ CHAR (CHARCODE H))
                      (PRINT "workstation server connection")
                      (replace (IRISENCAPSULATION INFOCHAR1) of IRISPACKET with (CHARCODE H))
                             INBOOTSTREAM (SPP.OPEN NIL 37))
                      (SENDIRISPACKET IRISPACKET))
                     (T (PRINT "Iris connection")
                                                                                (* replace EPSOCKET of IRISPACKET with 41)
                         (PRINTOUT PROMPTWINDOW CHAR "RECEIVED")
                         (replace (IRISENCAPSULATION INFOCHAR1) of IRISPACKET with (CHARCODE H))
                         (SETQ INBOOTSTREAM (SPP.OPEN NIL 37))
                         (SENDIRISPACKET IRISPACKET]
         (RELEASE.MONITORLOCK IRIS.LOCK])
(SENDIRISPACKET
                                                                                (* gbn "10-Jun-85 16:05")
  [LAMBDA (IRISPACKET)
            (* * Sends a raw seething IRIS packet)
     (COND
        ((fetch (ETHERPACKET EPTRANSMITTING) of IRISPACKET)
         'AlreadyQueued)
```

```
(\RCLK (LOCF (fetch (ETHERPACKET EPTIMESTAMP) of
                                                                   ÎRÎSPACKET))))
          (TRANSMIT.ETHERPACKET (fetch (ETHERPACKET EPNETWORK) of IRISPACKET)
                 IRISPACKET])
(IRISFILTER
  [LAMBDA (IRISPACKET)
                                                                   (* gbn " 3-Jun-85 22:49")
    (if (AND (EQ (fetch (ETHERPACKET EPTYPE) of IRISPACKET)
                IRIS.PACKETTYPE)
            (BROADCASTP IRISPACKET
        then (ADD.PROCESS '(IRISBOOTPROCESS %, IRISPACKET))
     else
                                                                   (* not an iris packet)
          NIL])
(OPEN.IRISCONN
                                                                   (* gbn " 7-Jul-85 14:42")
  [LAMBDA (NSADDRESS)
    (SETQ IRISCONN (SPP.OPEN (OR NSADDRESS IRISNSADDRESS)
                          IRISSOCKET T ' | Iris Terminal SPP | ])
(IRISBOOTSERVER
                                                                   (* gbn " 7-Jul-85 14:54")
  [LAMBDA (ON?)
    (if ON?
            (PROMPTPRINT "Enabling IRIS boot server")
       then
             (\ADD.PACKET.FILTER (FUNCTION IRISFILTER))
     else (PROMPTPRINT "Disabling IRIS boot server")
          (\DEL.PACKET.FILTER (FUNCTION IRISFILTER])
(RPAQQ \IRIS.VERBOSE T)
(RPAQQ PRINTSPPDATAFLG T)
(RPAQ IRIS.LOCK (CREATE.MONITORLOCK "iris boot lock"))
(DECLARE%: DOEVAL@COMPILE DONTCOPY
(GLOBALVARS IRISNSHOSTNUMBER)
(RPAQ? IRISNET 146)
(RPAQ? IRISBOOTDIRECTORIES '({CORE} {ERIS}<IRIS>q12>boot>))
(DECLARE%: EVAL@COMPILE
(RPAQO IRISSOCKET 37)
(RPAOO IRIS.PACKETTYPE 32790)
(RPAQQ IRIS.BOOT.STREAM.NAME | IRIS boot SPP |)
(CONSTANTS (IRISSOCKET 37)
       (IRIS.PACKETTYPE 32790)
       (IRIS.BOOT.STREAM.NAME ' | IRIS boot SPP | ))
(DECLARE%: EVAL@LOAD DONTCOPY
(FILESLOAD ETHERRECORDS)
(LOADCOMP 'LLETHER)
(ACCESSFNS IRISENCAPSULATION [(IRISBASE (LOCF (FETCH (ETHERPACKET EPENCAPSULATION) OF DATUM]
       [BLOCKRECORD IRISBASE ((IRISLENGTH WORD)
                               (IRISDESTHOSTO 3 WORD)
                               (IRISSOURCEHOSTO 3 WORD)
                               (IRISTYPE WORD)
                               (IRISEXCHID WORD)
                               (INFOCHAR1 BYTE)
                               (INFOCHAR2 BYTE))
              [ACCESSFNS IRISDESTHOSTO ((IRISDESTHOST (\LOADNSHOSTNUMBER (LOCF DATUM))
                                                 (\STORENSHOSTNUMBER (LOCF DATUM)
                                                        NEWVALUE))
                                          (IRISPACKETBASE (LOCF DATUM))
                                          (IRISDESTHOSTBASE (LOCF DATUM)
              (ACCESSFNS IRISSOURCEHOSTO ((IRISSOURCEHOST (\LOADNSHOSTNUMBER (LOCF DATUM))
                                                   (\STORENSHOSTNUMBER (LOCF DATUM)
                                                          NEWVALUE))
                                            (IRISSOURCEHOSTBASE (LOCF DATUM]
       (TYPE? (type? ETHERPACKET DATUM)))
```

```
{\tt \{MEDLEY\}$<} obsolete>lispusers>IRISNET.; 1
```

{MEDLEY}<obsolete>lispusers>IRISNET.;1 28-Jun-2024 18:34:03 -- Listed on 30-Jun-2024 13:23:18 --

FUNCTION INDEX				
IRIS.RESET				SENDIRISPACKET2
VARIABLE INDEX				
IRIS.LOCK			\IRIS.VE	CRBOSE
CONSTANT INDEX				
IRIS.BOOT.STREAM.NAME3	IRIS.PACKETTYPE	3	IRISSOCK	XET
MACRO INDEX				
BROADCASTP4				
	RECORI	O INDEX		
IRISENCAPSULATION				