

File created: 12-Nov-85 19:11:43 {ERIS}<IRIS>KOTO>IRISIO.;2

changes to: (VARS IRISIOCOMS)
(FNS IRIS.SENDFS)

previous date: 9-Sep-85 13:47:28 {ERIS}<IRIS>KOTO>IRISIO.;1

Read Table: OLD-INTERLISP-FILE

Package: INTERLISP

Format: XCCS

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(RPAQQ **IRISIOCOMS**

```
[(COMS (* User level primitives)
  (FNS IRIS.GEXIT IRIS.GFLUSH IRIS.GINIT IRIS.GRESET)
  (MACROS IRIS.GFLUSH))
 (COMS (* Lower level primitives)
  (FNS IRIS.RECBS IRIS.RECFS IRIS.RECLS IRIS.RECSS IRIS.SENDBS IRIS.SENDFS IRIS.SENDLS IRIS.SENDQS
    IRIS.SENDSS IRIS.SETFASTCOM)
  (MACROS IRIS.DOSYNC IRIS.ECHOFF IRIS.ECHON IRIS.FLUSHG IRIS.GCMD IRIS.GETGCHAR IRIS.GEXIT
    IRIS.GFINISH IRIS.PUTGCHAR IRIS.REC32 IRIS.REC6 IRIS.RECB IRIS.RECCR IRIS.RECF IRIS.RECL
    IRIS.RECO IRIS.RECOS IRIS.RECS IRIS.SEND6 IRIS.SEND8 IRIS.SENDB IRIS.SENDC IRIS.SENDF
    IRIS.SENDL IRIS.SENDO IRIS.SENDS SPPINPUTSTREAM SPPSTREAM?)
  (CONSTANTS (STDERR T)
    (IRIS\AESC 46)
    (IRIS\RESC 126)
    (IRIS\TESC 16)))
 [DECLARE: EVAL@LOAD DONTCOPY (P (LOADDEF (QUOTE FLOATP)
  (QUOTE RECORD)
  (QUOTE LLARITH)
 (INITVARS (IRISCONN)
  (IRISSPPON T))
 (DECLARE: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILEVARS (ADDVARS (NLAMA)
  (NLAML)
  (LAMA)]
```

(* * User level primitives)

(DEFINEQ

(**IRIS.GEXIT**

```
[LAMBDA (stream)
  (if stream
    then (IRIS.FLUSHG stream)
    else (IRIS.FLUSHG IRISCONN])
```

(**IRIS.GFLUSH**

```
[LAMBDA (stream)
  (if stream
    then (IRIS.FLUSHG stream)
    else (IRIS.FLUSHG IRISCONN])
```

(**IRIS.GINIT**

```
[LAMBDA (STREAM)
  (if (NOT STREAM)
    then (SETQ STREAM IRISCONN))
 (IRIS.SETFASTCOM STREAM)
 (IRIS.XGINIT STREAM)
 (IRIS.FLUSHG STREAM])
```

(* LeL, " 3-Sep-85 17:18")

(* Assumes that we communicate on the net)

(**IRIS.GRESET**

```
[LAMBDA (STREAM)
  (IRIS.XGRESET STREAM)
 (IRIS.FLUSHG STREAM])
```

(* LeL, " 3-Sep-85 17:18")

)

(DECLARE: EVAL@COMPILE

(PUTPROPS **IRIS.GFLUSH MACRO** [arg?

(* Just for speed...)

```
(if arg?
  then (CONS (QUOTE IRIS.FLUSHG)
    arg?)
  else (QUOTE (IRIS.FLUSHG IRISCONN])
```

)

(* * Lower level primitives)

(DEFINEQ

(IRIS.RECBS

```
[LAMBDA (values stream)
  (PROG (nLongs nBytes)
    (SETQ nLongs (LRSH (IPLUS (SETQ nBytes (IRIS.RECL stream))
      3)
      2))
    (if (NEQ IRIS\RESC (IRIS.GETGCHAR stream))
      then (PRINT "IRIS.RECBS: error in array transport" STDERR)
            (while (SPP.READP stream) do (BIN stream))
            (RETURN))
      [for i from 0 to (SUB1 nLongs) as ptr from (ARRAYORIG values) by 3
        bind aLong (arrayMax _ (IPLUS (ARRAYORIG values)
          nVals))
        do (SETQ aLong (IRIS.REC32 stream))
          (if (IRIS.DOSYNC i)
            then (IRIS.GETGCHAR stream)
                  (IRIS.PUTGCHAR IRIS\AESC stream)
                  (IRIS.FLUSHG stream))
            (for j from 0 to 2 when (LEQ (IPLUS ptr j)
              arrayMax)
              do (SETA values (IPLUS ptr j)
                (LOGAND 255 (LRSH aLong (LLSH j 3))
                (IRIS.GETGCHAR stream))
                (* LeL, "6-Sep-85 14:15")
                (* Receive an array of bytes and fill VALUES)
                (* Number of longs -
                FIXP -
                to recieve)
```

(IRIS.RECFS

```
[LAMBDA (values stream)
  (PROG (nLongs)
    (SETQ nLongs (IRIS.RECL stream))
    (if (NEQ IRIS\RESC (IRIS.GETGCHAR stream))
      then (printout STDERR "IRIS.RECFLS: error in array transport" T)
            (while (SPP.READP stream) do (BIN stream))
            (RETURN))
      [for i from 0 to (SUB1 nLongs) as ptr from (ARRAYORIG values) bind aLong (aFloat _ (NCREATE 'FLOATP))
        do (SETQ aLong (IRIS.REC32 stream))
          (if (IRIS.DOSYNC i)
            then (IRIS.GETGCHAR stream)
                  (IRIS.PUTGCHAR IRIS\AESC stream)
                  (IRIS.FLUSHG stream))
            (replace (FLOATP HIWORD) of aFloat with (LRSH aLong 16))
            (replace (FLOATP LOWORD) of aFloat with (LOGAND aLong 65535))
            (SETA values ptr aFloat))
          (IRIS.GETGCHAR stream))
          (* LeL, "6-Sep-85 12:50")
          (* Common subroutine to IRIS.RECFS and IRIS.RECLS)
```

(IRIS.RECLS

```
[LAMBDA (values STREAM)
  (PROG (nLongs)
    (SETQ nLongs (IRIS.RECL STREAM))
    (if (NEQ IRIS\RESC (IRIS.GETGCHAR STREAM))
      then (PRINT "IRIS.RECLS: error in array transport" STDERR)
            (while (SPP.READP stream) do (BIN stream))
            (RETURN))
      [for i from 0 to (SUB1 nLongs) as ptr from (ARRAYORIG values) bind aLong
        do (SETQ aLong (IRIS.REC32 STREAM))
          (if (IRIS.DOSYNC i)
            then (IRIS.GETGCHAR STREAM)
                  (IRIS.PUTGCHAR IRIS\AESC STREAM)
                  (IRIS.FLUSHG STREAM))
            (SETA values ptr aLong))
          (IRIS.GETGCHAR STREAM))
          (* LeL, "6-Sep-85 10:22")
          (* Recieve an array of longs)
```

(IRIS.RECSS

```
[LAMBDA (values stream)
  (PROG (nLongs nShorts)
    (SETQ nLongs (LRSH (ADD1 (SETQ nShorts (IRIS.RECL stream)))
      1))
    (if (NEQ IRIS\RESC (IRIS.GETGCHAR stream))
      then (PRINT "IRIS.RECSS: error in array transport" STDERR)
            (while (SPP.READP stream) do (BIN stream))
            (RETURN))
      [for i from 0 to (SUB1 nLongs) as ptr from (ARRAYORIG values) by 2 bind aLong
        do (SETQ aLong (IRIS.REC32 stream))
          (if (IRIS.DOSYNC i)
            then (IRIS.GETGCHAR stream)
                  (IRIS.PUTGCHAR IRIS\AESC stream)
                  (IRIS.FLUSHG stream))
            (SETA values ptr (LRSH aLong 16))
            (if (OR (LESSP i (SUB1 nLongs))
                (* LeL, "6-Sep-85 14:17")
                (* Recieve an array of SMALL INTEGERS)
```

```

      (EVENP nShorts))
    then (SETA values (ADD1 ptr)
          (LOGAND 65535 aLong]
  (IRIS.GETGCHAR stream])

```

(IRIS.SENDBS

```

[LAMBDA (values nVals stream)
  (* LeL, " 9-Sep-85 05:29")
  (* Send an array of bytes)

  (PROG (nLongs)
    (SETQ nLongs (LRSH (IPLUS nVals 3)
                       2))
    (COND
      ((ARRAYP values)
       (IRIS.SENDL nVals stream)
       (* Fill a 32 bits word starting from highest byte :)
       (for i from 0 to (SUB1 nLongs) as ptr from (ARRAYORIG values) by 4
         bind aLong (arrayMax _ (IPLUS (ARRAYORIG values)
                                       nVals))
         do [SETQ aLong (for j from 0 to 4 when (LEQ (IPLUS ptr j)
                                                    arrayMax)
              sum (LSH (ELT values (IPLUS ptr j))
                    (LSH j 3]
              (if (IRIS.DOSYNC i)
                  then (IRIS.PUTGCHAR IRIS\AESC stream))
              (IRIS.SENDL aLong stream)))
        ((LISTP values)
         (IRIS.SENDL nVals stream)
         (for i from 0 to (SUB1 nLongs) bind (ptr _ values)
           do (SETQ aLong (for j from 24 to 0 by -8 when ptr sum (LSH (pop ptr)
                                                                    j)))
              (if (IRIS.DOSYNC i)
                  then (IRIS.PUTGCHAR IRIS\AESC stream))
              (IRIS.SENDL aLong stream])

```

(IRIS.SENDFS

```

[LAMBDA (values nVals stream)
  (* gbn "11-Nov-85 19:48")

  (** Sends an array or (possibly two-layered) list of numbers)

  (COND
    ([AND (ARRAYP values)
          (NUMBERP (ELT values (ARRAYORIG values)
                               (* An array of numbers)
                               stream)
          (IRIS.SENDL (LSH nVals 2)
                      stream)
          (for i from 0 to (SUB1 nVals) as ptr from (ARRAYORIG values) do (if (IRIS.DOSYNC i)
            then (IRIS.PUTGCHAR IRIS\AESC stream))
            (IRIS.SENDF (ELT values ptr)
                        stream)))
    ((AND (LISTP values)
          (NUMBERP (CAR values)))
     (* A list of numbers)
     (IRIS.SENDL (LSH nVals 2)
                 stream)
     (for i in values as counter from 0 do (if (IRIS.DOSYNC counter)
       then (IRIS.PUTGCHAR IRIS\AESC stream))
       (IRIS.SENDF i stream)))
    ((AND (LISTP values)
          (POSITIONP (CAR values))
          (NUMBERP (CAAR values)))
     (* A list of positions)
     (IRIS.SENDL (LSH nVals 2)
                 stream)
     (for i in values bind (counter _ -1) do (if (IRIS.DOSYNC (add counter 1))
       then (IRIS.PUTGCHAR IRIS\AESC stream))
       (IRIS.SENDF (CAR i)
                   stream)
       (if (IRIS.DOSYNC (add counter 1))
           then (IRIS.PUTGCHAR IRIS\AESC stream))
       (IRIS.SENDF (CDR i)
                   stream)))
    [(AND (LISTP values)
          (LISTP (CAR values))
          (NUMBERP (CAAR values)))
     (* A list of list of numbers)
     (IRIS.SENDL (LSH nVals 2)
                 stream)
     (for i in values bind (counter _ -1) do (for j in i everytime (add counter 1)
       do (if (IRIS.DOSYNC counter)
           then (IRIS.PUTGCHAR IRIS\AESC stream))
           (IRIS.SENDF j stream]
     (T (ERROR values "-- is not an list [of list]/array of numbers"))

```

(IRIS.SENDLS

```

[LAMBDA (values nVals stream)
  (* LeL, " 9-Sep-85 02:14")

  (** Sends an array or (possibly two-layered) list of numbers)

  (COND

```

```

([AND (ARRAYP values)
      (NUMBERP (ELT values (ARRAYORIG values)
                            (IRIS.SENDL (LLSH nVals 2)
                                           stream)
                            (for i from 0 to (SUB1 nVals) as ptr from (ARRAYORIG values) do (if (IRIS.DOSYNC i)
                                                                                               then (IRIS.PUTGCHAR IRIS\AESC stream)
                                                                                               (IRIS.SENDL (ELT values ptr)
                                                                                               stream))))))
      (* An array of numbers)

((AND (LISTP values)
      (NUMBERP (CAR values)))
      (IRIS.SENDL (LLSH nVals 2)
                  stream)
      (for i in values as counter from 0 do (if (IRIS.DOSYNC counter)
                                                then (IRIS.PUTGCHAR IRIS\AESC stream)
                                                (IRIS.SENDL i stream)))
      (* A list of numbers)

([AND (LISTP values)
      (LISTP (CAR values))
      (NUMBERP (CAAR values)))
      (IRIS.SENDL (LLSH nVals 2)
                  stream)
      (for i in values bind (counter _ -1) do (for j in i eachtime (add counter 1)
                                                do (if (IRIS.DOSYNC counter)
                                                        then (IRIS.PUTGCHAR IRIS\AESC stream)
                                                        (IRIS.SENDL j stream)
                                                        (T (ERROR values "-- is not an list [of list]/array of numbers"))
                                                        ))
      (* A list of list of numbers)

```

(IRIS.SENDQS

(* LeL, " 2-Sep-85 12:47")

```

[LAMBDA (values nVals stream)
  (IRIS.SENDL (LLSH nVals 3))
  (COND
    ((ARRAYP values)
     (for i from 0 to (LLSH nVals 1) by 2 as ptr from 0 by 8
      do (if (IRIS.DOSYNC i)
            then (IRIS.PUTGCHAR IRIS\AESC stream)
            (IRIS.SENDL (LOGOR (LLSH (ELT values ptr)
                                  16)
                        (LLSH (ELT values (IPLUS ptr 1))
                              24)
                        (LLSH (ELT values (IPLUS ptr 2))
                              8)
                        (ELT values (IPLUS ptr 3)))
                        stream)
            (if (IRIS.DOSYNC (IPLUS i 1))
                then (IRIS.PUTGCHAR IRIS\AESC stream)
                (IRIS.SENDL (LOGOR (LLSH (ELT values (IPLUS ptr 4))
                                  24)
                        (LLSH (ELT values (IPLUS ptr 5))
                              16)
                        (ELT values (IPLUS ptr 6))
                        (LLSH (ELT values (IPLUS ptr 7))
                              8))
                        stream)))
    ((LISTP values)
     (for i from 0 to (LLSH nVals 1) by 2 as ptr from values by 8
      do (if (IRIS.DOSYNC i)
            then (IRIS.PUTGCHAR IRIS\AESC stream)
            (IRIS.SENDL (LOGOR (LLSH (CAR values)
                                  16)
                        (LLSH (CADR values)
                              24)
                        (LLSH (CADDR values)
                              8)
                        (CADDR values)
                        stream)
            (SETQ values (NTH values 5))
            (if (IRIS.DOSYNC (IPLUS i 1))
                then (IRIS.PUTGCHAR IRIS\AESC stream)
                (IRIS.SENDL (LOGOR (LLSH (ELT values (CAR values))
                                  24)
                        (LLSH (ELT values (CADR values))
                              16)
                        (CADDR values)
                        (LLSH (CADDR values)
                              8))
                        stream)
            (SETQ values (NTH values 5))
            (T (ERROR values "-- neither an array nor a list"))

```

(IRIS.SENDSS

(* LeL, " 6-Sep-85 14:20")

```

[LAMBDA (values nVals stream)
  (** Sends an array or list of numbers shorts (SMALLPs))

  (LET ((nLongs (LRSH nVals 1))
        (nBytes (LLSH nVals 1)))

```

```
(COND
  ([AND (ARRAYP values)
        (NUMBERP (ELT values (ARRAYORIG values) (* An array of numbers)
        (IRIS.SENDL nBytes stream)
        (for i from 0 to (SUB1 nLongs) as ptr from (ARRAYORIG values) by 2 bind aLong
          do (SETQ aLong (ELT values ptr))
             (if (OR (LESSP i nLongs)
                     (EVENP nVals))
                 then (add aLong (LSH (ELT values (ADD1 ptr))
                                     16)))
             (if (IRIS.DOSYNC i)
                 then (IRIS.PUTGCHAR IRIS\AESC stream))
             (IRIS.SENDL aLong stream)))
  ((AND (LISTP values)
        (NUMBERP (CAR values)))
        (* A list of numbers)
  (IRIS.SENDL nBytes stream)
  (for i from 0 to (SUB1 nLongs) bind aLong (pnt _ values)
    do (SETQ aLong (pop pnt))
       (if pnt
         then (add aLong (LSH (pop pnt)
                             16)))
       (if (IRIS.DOSYNC i)
           then (IRIS.PUTGCHAR IRIS\AESC stream))
       (IRIS.SENDL i stream)))
  (T (ERROR values "-- is not an list [of list]/array of numbers"))
```

(IRIS.SETFASTCOM

```
[LAMBDA (STREAM)
  (IRIS.GCMD 1 STREAM)] (* gbn "19-Mar-85 21:02")
```

)

(DECLARE: EVAL@COMPILE

```
(PUTPROPS IRIS.DOSYNC MACRO ((i)
  (COND
    ((EQ 0 (LOGAND i 7)))
    (T NIL))))
```

```
(PUTPROPS IRIS.ECHOFF MACRO ((STREAM)
  (STREAMPROP STREAM (QUOTE IRIS\ECHOFFLAG)
  NIL)))
```

```
(PUTPROPS IRIS.ECHOON MACRO ((STREAM)
  (STREAMPROP STREAM (QUOTE IRIS\ECHOFFLAG)
  T)))
```

```
(PUTPROPS IRIS.FLUSHG MACRO (= . SPP.FORCEOUTPUT))
```

```
(PUTPROPS IRIS.GCMD MACRO ((CMD STREAM)
  (BOUT STREAM IRIS\TESC)
  (IRIS.SEND6 CMD STREAM)
  (IRIS.SEND6 (LRSH CMD 6)
  STREAM))) (* Sends a command)
(* Escape character)
(* ...followed by the number in two six bits transmission)
```

```
(PUTPROPS IRIS.GETGCHAR MACRO ((STREAM)
  (BIN (SPPINPUTSTREAM STREAM))))
```

```
(PUTPROPS IRIS.GEXIT MACRO ((stream)
  (if stream
    then (IRIS.FLUSHG stream)
    else (IRIS.FLUSHG IRISCONN)))
```

```
(PUTPROPS IRIS.GFINISH MACRO ((stream)
  (IRIS.FLUSHG stream))) (* null defn)
```

```
(PUTPROPS IRIS.PUTGCHAR MACRO ((onechar SPPSTREAM)
  (BOUT SPPSTREAM onechar)))
```

```
(PUTPROPS IRIS.REC32 MACRO ((stream)
  (for j from 0 to 30 by 6 sum (LSH (IRIS.REC6 stream)
  j))))
```

```
(PUTPROPS IRIS.REC6 MACRO ((STREAM)
  (* Recieve a 6 bit word; we subtract 32 because the other end add3s 32 to avoid sending control characters)
  (* NO LONGER ANDS 63)
  (IDIFFERENCE (IRIS.GETGCHAR STREAM)
  32)))
```

```
(PUTPROPS IRIS.RECB MACRO [LAMBDA (STREAM)
  (* Receive a byte)
  (* is passed the spp outputstream, so must grab the input
  stream from it)
  (SETQ STREAM (SPPINPUTSTREAM STREAM))
  (while (NEQ IRIS\RESC (BIN STREAM)))
  (LOGOR (IRIS.REC6 STREAM)
```

(LLSH (IRIS.REC6 STREAM) 6])

(PUTPROPS IRIS.RECCR MACRO ((STREAM) (IRIS.GETGCHAR STREAM)) (* recieve a CarriageReturn) (* OR (EQ (IRIS.GETGCHAR STREAM) (IPLUS 32 (CHARCODE CR))) (ERROR "IRIS.RECCR received a non-carriage return from the IRIS"))))

(PUTPROPS IRIS.RECF MACRO [LAMBDA (SPPSTREAM) (* gbn "17-Jun-85 17:31") (* receive a float. uses IRIS.RECL to receive a 32 bit word and convert it to float)

(PROG (AFLOAT ALONG) (SETQ ALONG (IRIS.RECL SPPSTREAM)) (SETQ AFLOAT (NCREATE (QUOTE FLOATP))) (replace (FLOATP HIWORD) of AFLOAT with (LRSH ALONG 16)) (replace (FLOATP LOWORD) of AFLOAT with (LOGAND ALONG 65535)) (RETURN AFLOAT]))

(PUTPROPS IRIS.RECL MACRO ((stream) (while (NEQ IRIS\RESC (IRIS.GETGCHAR stream)) do NIL (IRIS.REC32 stream)))

(PUTPROPS IRIS.RECO MACRO ((STREAM) (IRIS.RECB STREAM))) (* Recieve a boolean)

(PUTPROPS IRIS.RECOS MACRO ((values STREAM) (IRIS.RECBS values STREAM))) (* Recieve an array of boolean)

(PUTPROPS IRIS.RECS MACRO [(stream) (while (NEQ (IRIS.GETGCHAR stream) IRIS\RESC) do NIL (LET* ((1stbyte (IRIS.REC6 stream)) (2ndbyte (IRIS.REC6 stream))) (LOGOR 1stbyte (LLSH 2ndbyte 6) (LLSH (IRIS.REC6 stream) 12))

(PUTPROPS IRIS.SEND6 MACRO [(n STREAM) (BOUT STREAM (IPLUS 32 (LOGAND 63 n)) (* Add 32 to avoid sending control characters)

(PUTPROPS IRIS.SEND8 MACRO ((n STREAM) (BOUT STREAM n)))

(PUTPROPS IRIS.SENDB MACRO ((VALUE STREAM) (IRIS.SEND8 VALUE STREAM))) (* Send a byte)

(PUTPROPS IRIS.SENDC MACRO ((string stream) (IRIS.SENDBS (NCONC1 (CHCON string) 0) (ADD1 (NCHARS string) stream))) (* Send a string of characters) (* should probably allocate a global resource)

(PUTPROPS IRIS.SENDF MACRO ((value stream) (LET ((float (FLOAT value))) (IRIS.SEND8 (\GETBASEBYTE float 0) stream) (IRIS.SEND8 (\GETBASEBYTE float 1) stream) (IRIS.SEND8 (\GETBASEBYTE float 2) stream) (IRIS.SEND8 (\GETBASEBYTE float 3) stream)))) (* Send a float)

(PUTPROPS IRIS.SENDL MACRO [LAMBDA (VALUE STREAM) (* Sends a 32 bit integer) (SELECTQ (TYPENAME VALUE) (SMALLP (if (ILESSP VALUE 0) then (IRIS.SEND8 255 STREAM) (IRIS.SEND8 255 STREAM) else (IRIS.SEND8 0 STREAM) (IRIS.SEND8 0 STREAM)) (IRIS.SEND8 (LOGAND (LRSH VALUE 8) 255) STREAM) (IRIS.SEND8 (LOGAND VALUE 255) STREAM)) (FIXP (IRIS.SEND8 (\GETBASEBYTE VALUE 0) STREAM) (IRIS.SEND8 (\GETBASEBYTE VALUE 1) STREAM) (IRIS.SEND8 (\GETBASEBYTE VALUE 2) STREAM) (IRIS.SEND8 (\GETBASEBYTE VALUE 3) STREAM))

(ERROR VALUE "can't be sent thru IRIS.SENDL (neither an FIXP nor a SMALLP)"])

(PUTPROPS IRIS.SENDO MACRO ((value STREAM) (* send a boolean)
(IRIS.SENDB value STREAM)))

(PUTPROPS IRIS.SENDS MACRO ((value STREAM) (* Send a SMALL INTEGER (16 bits))
(IRIS.SEND8 (LOGAND 255 (LRSH value 8))
STREAM)
(IRIS.SEND8 (LOGAND 255 value)
STREAM)))

(PUTPROPS SPPINPUTSTREAM MACRO ((OUTPUTSTREAM) (* gbn "17-Jun-85 17:40")
(fetch (SPPCON SPPINPUTSTREAM) of (fetch (STREAM F1) of OUTPUTSTREAM))))

(PUTPROPS SPPSTREAM? MACRO [LAMBDA (STREAM)
(AND (TYPENAME STREAM (QUOTE STREAM))
(TYPENAMEP (fetch F1 of STREAM)
(QUOTE SPPCON]))
)

(DECLARE: EVAL@COMPILE

(RPAQQ STDERR T)

(RPAQQ IRIS\AESC 46)

(RPAQQ IRIS\RESC 126)

(RPAQQ IRIS\TESC 16)

(CONSTANTS (STDERR T)
(IRIS\AESC 46)
(IRIS\RESC 126)
(IRIS\TESC 16))
)

(DECLARE: EVAL@LOAD DONTCOPY

(LOADDEF (QUOTE FLOATP)
(QUOTE RECORD)
(QUOTE LLARITH))
)

(RPAQ? IRISCONN)

(RPAQ? IRISSPPON T)

(DECLARE: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVERS

(ADDTOVAR NLAMA)

(ADDTOVAR NLAML)

(ADDTOVAR LAMA)
)

(PUTPROPS IRISIO COPYRIGHT ("Xerox Corporation" 1985))

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------------------	------------------	------------------	---------------

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-----------------	------------------
