

File created: 22-Jul-88 15:35:50 {MCS:MCS:STANFORD}<LANE>TTYTALK.;2

previous date: 13-Jun-88 16:35:13 {MCS:MCS:STANFORD}<LANE>TTYTALK.;1

Read Table: INTERLISP

Package: INTERLISP

Format: MCCS

```
(RPAQQ TTYTALKCOMS
  ((* TALK TTY Service)
   (LOCALVARS . T)
   (FNS TALK.TTY.DISPLAY TALK.TTY.LISTEN TALK.TTY.CHARFN)
   (INITVARS (TALK.TTY.FONT DEFAULTFONT)
              (TALK.TTY.TERMTABLE (COPYTERMTABLE 'ORIG)
                                   (GLOBALVARS TALK.TTY.FONT TALK.TTY.TERMTABLE)
                                   (FILES TALK)
                                   (APPENDVARS (GAP.SERVICETYPES (5 TTY TALK.NS.SERVER)
                                                       (TALK.SERVICETYPES (TTY TALK.TTY.DISPLAY TALK.TTY.LISTEN)))
                                   (P (ECHOCHAR (CHARCODE BS)
                                              'IGNORE TALK.TTY.TERMTABLE))))))
```

(* * TALK TTY Service)

(DECLARE%: DOEVAL@COMPILE DONTCOPY

(LOCALVARS . T)

(DEFINEQ

(TALK.TTY.DISPLAY
[LAMBDA (MAINWINDOW WINDOW INPUTSTREAM OUTPUTSTREAM PROTOCOLTYPE USER)

; Edited 8-Jun-88 12:21 by cdl

```
(LET (PROCESS)
  (DSPFONT TALK.TTY.FONT MAINWINDOW)
  (DSPFONT TALK.TTY.FONT WINDOW)
  (DSPSCROLL 'ON MAINWINDOW)
  (DSPSCROLL 'ON WINDOW)
  (if USER
    then (WINDOWPROP MAINWINDOW 'ICON (CONCAT "Talk with " USER)))
  [WINDOWPROP MAINWINDOW 'TALK.TTY.PROCESS (SETQ PROCESS (ADD.PROCESS (TALK.TTY.CHARFN
                                                                           ,MAINWINDOW
                                                                           ,OUTPUTSTREAM
                                                                           ,(with
                                                                              TALK.PROTOCOLTYPE
                                                                              PROTOCOLTYPE
                                                                              TALK.CASEARRAY
                                                                              ]
                                                                           TALK.CASEARRAY
                                                                           ]
                                                                           )
                                                                           )
    )])
```

(TALK.TTY.LISTEN
[LAMBDA (MAINWINDOW WINDOW INPUTSTREAM OUTPUTSTREAM PROTOCOLTYPE)

; Edited 8-Jun-88 12:21 by cdl

```
(DECLARE (SPECVARS INPUTSTREAM))
(PROG ((POSITION (create POSITION))
      (CHARWIDTH (CHARWIDTH (CHARCODE A)
                             TALK.TTY.FONT))
      BYTE PROCESS EVENTFN CASEARRAY EOM?)
  [with TALK.PROTOCOLTYPE PROTOCOLTYPE (SETQ EVENTFN TALK.EVENTFN)
    (SETQ CASEARRAY TALK.CASEARRAY)
    (SETQ EOM? (EQ TALK.PROTOCOLNAME 'NS)
    (while (OPENWP WINDOW) do (APPLY* EVENTFN INPUTSTREAM OUTPUTSTREAM)
      (if (NOT (AND (OPENP INPUTSTREAM)
                    (OPENP OUTPUTSTREAM))))
      then (RETURN))
    (TALK.FLASH.CARET WINDOW POSITION 'OFF)
    (bind CCODE while (AND (OPENP INPUTSTREAM)
                           (PROGN (if EOM?
                                     then (SPP.CLEAREOM INPUTSTREAM T))
                                     (READP INPUTSTREAM))))
    do (SETQ BYTE (LOGAND (SETQ CCODE (READCCODE INPUTSTREAM))
                          (MASK.1'S 0 8)))
```

```

[if CASEARRAY
  then (SETQ BYTE (SETQ CCODE (ELT CASEARRAY BYTE)
    (SELCHARQ BYTE
      (LF NIL)
      (↑G (TALK.RINGBELLS WINDOW))
      (BS (if (GEQ (DSPXPOSITION NIL WINDOW)
        CHARWIDTH)
          then (DSPBACKUP CHARWIDTH WINDOW))))
      (PRINTCCODE CCODE WINDOW)))
    (TALK.FLASH.CARET WINDOW POSITION 'ON))
(WINDOWPROP MAINWINDOW 'ICON (CONCAT (WINDOWPROP MAINWINDOW 'ICON)
  TALK.CLOSED.STRING))
(if (PROCESSP (SETQ PROCESS (WINDOWPROP MAINWINDOW 'TALK.TTY.PROCESS NIL)))
  then (DEL.PROCESS PROCESS))

```

(TALK.TTY.CHARFN

```

[LAMBDA (DISPLAYSTREAM OUTPUTSTREAM CHARARRAY) ; Edited 9-Jun-88 15:02 by cdl
  (DECLARE (SPECVARS DISPLAYSTREAM OUTPUTSTREAM CHARARRAY))
  [RESETFORM (TTYDISPLAYSTREAM DISPLAYSTREAM)
    (bind CCODE (STREAM ← (GETSTREAM NIL 'INPUT))
      (CHARWIDTH ← (CHARWIDTH (CHARCODE A)
        TALK.TTY.FONT))
      declare%: (SPECVARS STREAM) while (AND (OPENP OUTPUTSTREAM)
        (OPENWP DISPLAYSTREAM))
      do (if (SETQ CCODE (RESETLST
        (RESETSAVE (SETTERMTABLE TALK.TTY.TERMTABLE))
        (RESETSAVE (CONTROL T))
        (READCCODE STREAM)))
        then (SELCHARQ CCODE
          (BS (if (GEQ (DSPXPOSITION NIL DISPLAYSTREAM)
            CHARWIDTH)
              then (DSPBACKUP CHARWIDTH DISPLAYSTREAM)))
          NIL)
          (if CHARARRAY
            then (SETQ CCODE (ELT CHARARRAY CCODE)))
            (PRINTCCODE CCODE OUTPUTSTREAM)
            (if (NOT (READP STREAM T))
              then (FORCEOUTPUT OUTPUTSTREAM]
          (TTY.PROCESS T])

```

)

(RPAQ? TALK.TTY.FONT DEFAULTFONT)

(RPAQ? TALK.TTY.TERMTABLE (COPYTERMTABLE 'ORIG))

(DECLARE%: DOEVAL@COMPILE DONTCOPY

(GLOBALVARS TALK.TTY.FONT TALK.TTY.TERMTABLE)

)

(FILESLOAD TALK)

(APPENDTOVAR GAP.SERVICETYPES (5 TTY TALK.NS.SERVER))

(APPENDTOVAR TALK.SERVICETYPES (TTY TALK.TTY.DISPLAY TALK.TTY.LISTEN))

```

(ECHOCHAR (CHARCODE BS)
  'IGNORE TALK.TTY.TERMTABLE)

```

FUNCTION INDEX

TALK.TTY.CHARFN2 TALK.TTY.DISPLAY1 TALK.TTY.LISTEN1

VARIABLE INDEX

TALK.TTY.FONT2 TALK.TTY.TERMTABLE2 TTYTALKCOMS1
