```
; ============================================================
;  geoGopherCon: connection editor
; ============================================================
.if             Pass1
                .noeqin
                .include    geoGopherSym
                .include    geoGopherMac
                .include    geoGopher.inc
                .eqin
.endif
; ============================================================
;  constants for connection editor "dialog"
;  note: 320-CON_WIDE must divide by 8 evenly (to position icons)
; ============================================================
TTL_HIGH    =       12              ;title height
FLD_HIGH    =       20              ;height of text field, with offset
NUM_FLD     =       3               ;number of text fields
CON_HIGH    =       (TTL_HIGH+8)+(FLD_HIGH*NUM_FLD)+24 ;icon height+8=24
CON_TOP     =       (200-CON_HIGH)/2
TXT_TOP     =       CON_TOP+TTL_HIGH+8;top of input text string
TXT_HIGH    =       12              ;height of input text area
TXT_LEFT    =       40
TXT_WIDE    =       144
CON_WIDE    =       TXT_LEFT+TXT_WIDE+8
CON_LEFT    =       (320-CON_WIDE)/2
LBL_LEFT    =       CON_LEFT+8
LBL_BOT     =       CON_TOP+28      ;baseline of prompt string
SAV_LEFT    =       CON_LEFT+8      ;icon position
DEL_LEFT    =       CON_LEFT+72
CNC_LEFT    =       CON_LEFT+136
ICON_TOP    =       CON_TOP+(TTL_HIGH+8)+(FLD_HIGH*NUM_FLD)
; ============================================================
;  Save/Delete/Cancel "dialog" (edit connection)
; ============================================================
cfgEdit:        sec
                jsr         winDims
                lda         #1              ;solid (shadow box)
                jsr         SetPattern
                jsr         Rectangle
                clc
                jsr         winDims
                lda         #0              ;clear
                jsr         SetPattern
                jsr         Rectangle
                jsr         titleBar
                clc
                jsr         winDims
                lda         #$ff            ;solid line
                jsr         FrameRectangle
```

```
;               ================================================
                lda     tPort           ;show labels and text fields
                bne     10$
                lda     #'7'
                sta     tPort
                lda     #'0'
                sta     tPort+1
                lda     #0
                sta     tPort+2
10$             LoadB   a0L,0           ;field counter
                LoadB   a1L,LBL_BOT
                LoadB   a1H,TXT_TOP
20$             jsr     showFld         ;shows label and draws box for text area
                AddVB   #FLD_HIGH,a1L
                AddVB   #FLD_HIGH,a1H
                inc     a0L
                lda     a0L
                cmp     #NUM_FLD
                bne     20$
                LoadW   r0,conIcons
                jsr     DoIcons
                jsr     getInput
                rts
; ============================================================
;  Draw striped title bar at top of screen.
; ============================================================
titleBar:       lda     #9              ;horizontal stripes
                jsr     SetPattern
                LoadB   r2L,CON_TOP
                LoadB   r2H,CON_TOP+TTL_HIGH
                LoadW   r3,CON_LEFT
                LoadW   r4,(CON_LEFT+CON_WIDE)-1
                jsr     Rectangle
                LoadW   r0,#conTitle
                jsr     strWidth        ;returns string width in a0
                LoadB   r1H,CON_TOP+8
                ; ((window width - string width) / 2) + window left
                LoadW   r11,CON_WIDE
                SubW    a0,r11
                clc
                ror     r11H
                ror     r11L
                lda     r11L
                clc
                adc     #[CON_LEFT
                sta     r11L
                lda     r11H
                adc     #]CON_LEFT
                sta     r11H
                jsr     PutString
                rts
```

```
; ============================================================
;  Display a text prompt, the bounding box for its input, and the
;  default text for the input.
;                   pass:       a0L, item counter
;                               a1L, baseline of prompt string
;                               a1H, top of input text string
; ============================================================
showFld:        lda         a0L
                asl         a
                tay
                lda         lblAddrs,y
                sta         r0L
                iny
                lda         lblAddrs,y
                sta         r0H
                MoveB       a1L,r1H
                LoadW       r11,LBL_LEFT
                jsr         PutString
                lda         a1H
                sta         r2L
                clc
                adc         #(TXT_HIGH-1)
                sta         r2H
                LoadW       r3,CON_LEFT+TXT_LEFT
                LoadW       r4,(CON_LEFT+TXT_LEFT+TXT_WIDE)-1
                lda         #$ff                ;solid line
                jsr         FrameRectangle
                lda         a0L
                asl         a
                tay
                lda         txtAddrs,y
                sta         r0L
                iny
                lda         txtAddrs,y
                sta         r0H
                MoveB       a1L,r1H
                LoadW       r11,CON_LEFT+TXT_LEFT+3
                jsr         PutString
                rts
```

```
; ============================================================
;  Get the dimensions of the connection editor "dialog".
;               pass:       carry set to get shadow box dimensions
; ============================================================
winDims:      LoadB     r2L,CON_TOP
              LoadB     r2H,(CON_TOP+CON_HIGH)-1
              LoadW     r3,CON_LEFT
              LoadW     r4,(CON_LEFT+CON_WIDE)-1
              bcc       10$
              AddVB     8,r2L
              AddVB     8,r2H
              AddVW     8,r3
              AddVW     8,r4
10$           rts
; ============================================================
;  Clear connection editor area.
; ============================================================
clrCon:       lda       #0
              sta       tName           ;clear entry fields
              sta       tHost
              sta       tPort
              lda       #2              ;50% stipple
              jsr       SetPattern
              jsr       winDims
              AddVB     8,r2H           ;shadow box
              AddVW     8,r4
              jsr       Rectangle
              rts
; ============================================================
;  Loop through input fields. Mouse click will select field.
; ============================================================
getInput:     LoadW     rightMargin,(CON_LEFT+TXT_LEFT+TXT_WIDE)-3
              LoadW     StringFaultVector,0
              php
              sei
              LoadW     otherPressVector,conMouse
              plp
              LoadB     getting,#$ff    ;enable input
reGet:        LoadB     a0L,0           ;loop counter
              LoadB     a0H,TXT_TOP+2
getStrs:      lda       a0L
mGetStrs:     asl       a
              tax
              lda       txtAddrs,x
              sta       r0L
              lda       txtAddrs+1,x
              sta       r0H
              LoadB     r1L,0           ;no string fault
              MoveB     a0H,r1H         ;y position
              ldx       a0L
              lda       txtLens,x
              sta       r2L             ;max. input length
5$            LoadW     r11,CON_LEFT+TXT_LEFT+3;x position
              LoadW     keyVector,gotInput
              jsr       GetString
              rts
gotInput:     lda       getting
              bne       10$
              rts
10$           AddVB     #FLD_HIGH,a0H
              inc       a0L
              lda       a0L
              cmp       #NUM_FLD
              bne       getStrs
              beq       reGet
```

```
; ============================================================
conMouse:   LoadB   r2L,TXT_TOP
            LoadB   r2H,(TXT_TOP+TXT_HIGH)-1
            LoadW   r3,CON_LEFT+TXT_LEFT
            LoadW   r4,(CON_LEFT+TXT_LEFT+TXT_WIDE)-1
            ldx     #0
10$         jsr     IsMseInRegion
            tay                         ;force flags to be set
            bne     30$
            inx
            cpx     #NUM_FLD
            bne     20$
            rts
20$         AddVB   #FLD_HIGH,r2L
            AddVB   #FLD_HIGH,r2H
            bne     10$
30$         txa
            pha
            lda     #TXT_TOP+2
40$         dex
            bmi     50$
            clc
            adc     #FLD_HIGH
            bne     40$
50$         sta     a0H
            pla
            sta     a0L
            jmp     mGetStrs
```

```
; ============================================================
;  icon handlers for connection editor "dialog"
; ============================================================
doSave:     jsr     openCfg
            jsr     validate
            bcc     10$
            jmp     cfgEdit
10$         jsr     killText
            lda     cfgRec
            cmp     #$ff            ;new record?
            bne     40$             ;no, have record no.
            ldx     #2
20$         lda     fileHeader,x    ;VLIR index
            beq     30$             ;found an empty record
            inx
            inx
            bne     20$
            LoadW   errMsg,cfgFull  ;configuration file full
            LoadW   RecoverVector,rstrStd
            LoadW   r0,errorDB
            jsr     DoDlgBox
            bra     60$
30$         txa                     ;convert to VLIR record no.
            clc
            ror     a
            tax
            dex
            txa
40$         jsr     PointRecord
            jsr     cfgToBuf
            LoadW   r2,cfgLen
            LoadW   r7,cfgBuf
            jsr     WriteRecord
            txa
            bne     50$
            jsr     UpdateRecordFile
            txa
            bne     50$
            jsr     CloseRecordFile
            txa
            beq     60$
50$         pha
            LoadW   a8,savErr
            pla
            jsr     showCode
60$         jsr     clrCon
            jsr     clrStat
            jmp     cfgStart
```

```
; ============================================================
doDelete:       jsr     openCfg
                bcc     5$
                LoadW   errMsg,cfgErr
                LoadW   RecoverVector,rstrStd
                LoadW   r0,errorDB
                jsr     DoDlgBox
                bra     20$
5$              lda     cfgRec
                sta     curRecord
                jsr     DeleteRecord
                txa
                bne     10$
                jsr     UpdateRecordFile
                txa
                bne     10$
                jsr     CloseRecordFile
                txa
                beq     20$
10$             pha
                LoadW   a8,delErr
                pla
                jsr     showCode
20$             jsr     killText
                jsr     clrCon
                jsr     clrStat
                jmp     cfgStart
; ============================================================
doCancel:       jsr     killText
                jsr     clrCon
                jsr     clrStat
                jmp     cfgStart
; ============================================================
iconNop:        rts                             ;for disabled Delete icon
```

```
; ============================================================
;  Validate configuration entries.
;                   return: carry flag set on error, clear otherwise
; ============================================================
validate:       lda     tName
                bne     10$
                LoadW   errMsg,noConnNm
                bra     60$
10$             lda     tHost
                bne     20$
                LoadW   errMsg,noHostNm
                bra     60$
20$             lda     tPort
                bne     30$
                LoadW   errMsg,noPortNo
                bra     60$
30$             ldx     #0
40$             lda     tPort,x
                beq     70$
                cmp     #'0'
                bcc     50$
                cmp     #'9'+1
                bcs     50$
                inx
                bne     40$
50$             LoadW   errMsg,badPort
60$             LoadW   r0,errorDB
                LoadW   RecoverVector,rstrStd
                jsr     DoDlgBox
                sec
                rts
70$             jsr     getCfgs         ;check for duplicate name
                lda     numItems
                beq     120$
                LoadW   a8,cfgNames
                LoadW   a9,tName
80$             ldx     #a8
                ldy     #a9
                jsr     CmpString
                bne     90$
                LoadW   errMsg,dupCfg
                bra     60$
90$             ldy     #0
100$            lda     (a8),y
                beq     110$
                iny
                bne     100$
110$            iny
                iny                     ;past record no.
                tya
                clc
                adc     a8L
                sta     a8L
                lda     a8H
                adc     #0
                sta     a8H
                CmpW    a8,cfgEnd
                bcc     80$
120$            clc
                rts
```

```
; ============================================================
;  Copy to/from configuration buffer
; ============================================================
cfgToBuf:       ldx     #0
                ldy     #0
10$             lda     tName,x
                sta     cfgBuf,y
                beq     20$
                inx
                iny
                bne     10$
20$             ldx     #0
                iny
30$             lda     tHost,x
                sta     cfgBuf,y
                beq     40$
                inx
                iny
                bne     30$
40$             ldx     #0
                iny
50$             lda     tPort,x
                sta     cfgBuf,y
                beq     60$
                inx
                iny
                bne     50$
60$             rts
;               ================================================
bufToCfg:       ldx     #0
                ldy     #0
10$             lda     cfgBuf,y
                sta     tName,x
                beq     20$
                inx
                iny
                bne     10$
20$             ldx     #0
                iny
30$             lda     cfgBuf,y
                sta     tHost,x
                beq     40$
                inx
                iny
                bne     30$
40$             ldx     #0
                iny
50$             lda     cfgBuf,y
                sta     tPort,x
                beq     60$
                inx
                iny
                bne     50$
60$             rts
```

```
; ============================================================
;  Open configuration file (create if not found).
;               pass:       nothing
;               return:     carry set on error, clear otherwise
;                           on error, .A contains error code
; ============================================================
openCfg:    LoadW   r6,cfgName
            jsr     FindFile
            txa
            beq     30$
            cmp     #FILE_NOT_FOUND
            bne     40$
            LoadW   r9,cfgHead      ;not found, create
            LoadB   r10L,1
            jsr     SaveFile
            txa
            bne     40$
10$         LoadW   r0,cfgName      ;open newly-created file
            jsr     OpenRecordFile
            txa
            bne     40$
20$         jsr     AppendRecord    ;mark all records as empty
            txa
            beq     20$
            cpx     #OUT_OF_RECORDS
            bne     40$
            lda     #0              ;first record is network card type
            jsr     PointRecord
            LoadW   r2,1
            LoadW   r7,cfgType      ;just write the one byte
            jsr     WriteRecord
            jsr     UpdateRecordFile
            txa
            bne     40$
            clc
            rts
30$         lda     dirEntryBuf+OFF_GFILE_TYPE
            cmp     #APPL_DATA
            bne     50$
            LoadW   r9,dirEntryBuf
            jsr     GetFHdrInfo
            txa
            bne     40$
            ldx     #0
35$         lda     fileHeader+O_GHFNAME,x
            cmp     cfgPerm,x       ; permanent name string match?
            bne     50$
            inx
            cpx     #20
            bne     35$
            LoadW   r0,cfgName      ; OK then, open file
            jsr     OpenRecordFile
            txa
            bne     40$
            clc
            rts
40$         pha                     ;fatal error, must have config file
            LoadW   a8,cfgErr
            pla
            jsr     showCode
            jmp     EnterDeskTop
50$         LoadW   errMsg,badCfg   ;invalid configuration file
            LoadW   r0,errorDB
            LoadW   RecoverVector, rstrDone
            jsr     DoDlgBox
            jmp     EnterDeskTop    ;fatal error
```

```
; ============================================================
conTitle:       .byte       " gopher connection ",0
lName:          .byte       "name:",0
lHost:          .byte       "host:",0
lPort:          .byte       "port:",0
lblAddrs:       .word       lName,lHost,lPort
tName:          .byte       0
                .block      30
tHost:          .byte       0
                .block      30
tPort:          .byte       "70",0,0,0,0
txtLens:        .byte       30,30,5
txtAddrs:       .word       tName,tHost,tPort
badCfg:         .byte       "Invalid configuration file!",0
cfgFull:        .byte       "Configuration file full!",0
noConnNm:       .byte       "You have not entered a name.",0
noHostNm:       .byte       "You have not entered a host name.",0
noPortNo:       .byte       "You have not entered a port number.",0
badPort:        .byte       "Invalid port number.",0
dupCfg:         .byte       "Duplicate configuration name.",0
cfgsErr:        .byte       "reading configurations!",0
cfgErr:         .byte       "opening configuration file!",0
savErr:         .byte       "saving configuration!",0
delErr:         .byte       "deleting configuration!",0
getting:        .byte       0               ;accepting input?
cfgBuf:         .block      68              ;31+31+6
cfgRec:         .block      1
cfgLen          =           cfgRec-cfgBuf
cfgName:        .byte       "geoGopher.cfg",0
cfgType:        .byte       MOD_ULT         ;which network card
selCfg:         .byte       0               ;index into listbox
selIndex:       .byte       0               ;list index of selected item
cfgEnd:         .word       0               ;pointer to end of list
```

```
; ============================================================
;  configuration file header
; ============================================================
cfgHead:        .word   cfgName
                .byte   3,21,$BF
                .byte   $3c,$00,$3c
                .byte   $42,$00,$42
                .byte   $99,$ff,$99
                .byte   $bf,$00,$fd
                .byte   $bc,$00,$3d
                .byte   $5b,$c3,$da
                .byte   $37,$27,$2c
                .byte   $17,$27,$28
                .byte   $24,$24,$24
                .byte   $23,$c3,$c4
                .byte   $20,$18,$04
                .byte   $20,$7e,$04
                .byte   $20,$99,$04
                .byte   $20,$99,$04
                .byte   $20,$99,$04
                .byte   $20,$7e,$04
                .byte   $20,$00,$04
                .byte   $20,$00,$04
                .byte   $20,$00,$04
                .byte   $20,$00,$04
                .byte   $20,$00,$04
                .byte   $80 | USR
                .byte   APPL_DATA
                .byte   VLIR
                .word   $0000           ;load address
                .word   $ffff           ;end address
                .word   0               ;init address
cfgPerm:        .byte   "geoGopherCfgV1.0",0,0,0,0
                .byte   "Cenbe",0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
                .byte   "geoGopher   V2.1",0,0,0,0
                .block  23
                .byte   "geoGopher configuration file",0
```

```
; ============================================================
;  Create/Open/Quit dialog (open or edit connection)
; ============================================================
connDB:         .byte       DEF_DB_POS | 1
                .byte       DBTXTSTR,TXT_LN_X,16
                .word       txtOpt
                .byte       DBUSRICON,2,24
                .word       crtIcon
                .byte       DBTXTSTR,71,34
                .word       txtNew
                .byte       OPEN,2,48
                .byte       DBTXTSTR,71,58
                .word       txtExist
                .byte       DBUSRICON,2,72
                .word       quitIcon
                .byte       DBTXTSTR,71,82
                .word       txtQuit
                .byte       0
;               ================================================
txtOpt:         .byte       "Please Select Option:",0
txtNew:         .byte       "new connection",0
txtExist:       .byte       "existing connection",0
txtQuit:        .byte       "to deskTop",0
;               ================================================
crtIcon:        .word       icnCrt
                .byte       0,0             ;ignore position, use DB
                .byte       6,16            ;standard icon size
                .word       doCreate
;               ================================================
quitIcon:       .word       icnQuit
                .byte       0,0             ;ignore position, use DB
                .byte       6,16            ;standard icon size
                .word       doExit
;               ================================================
icnCrt:
```


```
icnQuit:
```

```
; ============================================================
;  icons for configuration editor
; ============================================================
conIcons:       .byte       3
                .word       SAV_LEFT+24
                .byte       ICON_TOP+8
;               ================================================
                .word       icnSave             ;in resident module
                .byte       SAV_LEFT/8,ICON_TOP
                .byte       6,16
                .word       doSave
;               ================================================
delIcon:        .word       icnDel
                .byte       DEL_LEFT/8,ICON_TOP
                .byte       6,16
delDspch:       .word       doDelete
;               ================================================
                .word       icnCncl
                .byte       CNC_LEFT/8,ICON_TOP
                .byte       6,16
                .word       doCancel
;               ================================================
icnDel:
```


```
icnDelDs:
```


```
icnCncl:
```


```
; ============================================================
cfgNames:       .block      1024                ;connection name buffer
```