

```

; MODULE_ID ACAD2007_LSP_
;;; ACAD2012.LSP Version 1.0 for AutoCAD 2012
;;;
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;;;
;;;.
;;;
;;; Note:
;;;     This file is normally loaded only once per AutoCAD session.
;;;     If you wish to have LISP code loaded into every document,
;;;     you should add your code to acad2012doc.lsp.
;;;
;;; Globalization Note:
;;;     We do not support autoloading applications by the native
;;;     language command call (e.g. with the leading underscore
;;;     mechanism.)

(if (not (= (substr (ver) 1 11) "Visual LISP")) (load "acad2012doc.lsp"))

;; Silent load.
(princ)
(defun-q MYSTARTUP
  ()
  (SETVAR "FONTALT" "LER.SHX")
  (SETVAR "INDEXCTL" 3)
  (SETVAR "ISAVEPERCENT" 0)
  (SETVAR "XLOADCTL" 2)
  (SETVAR "DIMASSOC" 2)
  (SETVAR "INSUNITS" 0)
  (SETVAR "FULLPLOTPATH" 0)
  (SETVAR "MAXACTVP" 64)
  (SETVAR "PLINETYPE" 2)
  ; (SETVAR "SDI" 1)
  (setvar "maxsort" 5000)
  (setvar "textfill" 1)
  (setvar "dctmain" "enu")
  (setvar "menubar" 1)
  (graphscr)
  (princ)
  (command "._UNDEFINE" "PLOT")
  (command "._UNDEFINE" "'LL")
  (command "._INSERT" "*Acad" "0,0,0" "" ""))
)

; (defun-q MYSTARTUP ()
;   (command "WSCURRENT" ""))
;
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; ) ;_ defun-q
; (setq S::STARTUP (append S::STARTUP MYSTARTUP))

(load "PLTSTAMP")
; (setq S::STARTUP (append S::STARTUP MYSTARTUP))
(setvar "ATTDIA" 1)
(setvar "ATTMODE" 1)
(setvar "UCSICON" 0)
  (SETVAR "PROXYGRAPHICS" 0)

(defun C:AC () (if (null C:ACRES) (load "ACRES")) (C:ACRES) (princ))
(defun C:BI () (if (null C:BLKINFO) (load "BLKINFO")) (C:BLKINFO) (princ))
; (defun C:CD () (if (null C:CURVEDAT) (load "CURVEDAT")) (C:CURVEDAT) (princ))
(defun C:CNN () (if (null C:CLEAN2010) (load "CLEAN2010")) (C:CLEAN2010) (princ))
(defun C:CR () (if (null C:COPYROT) (load "COPYROT")) (C:COPYROT) (princ))
(defun C:CT () (if (null C:CURVETIC) (load "CURVETIC")) (C:CURVETIC) (princ))
(defun C:F180 () (if (null C:FLIP180) (load "FLIP180")) (C:FLIP180) (princ))
(defun C:F270 () (if (null C:FLIP270) (load "FLIP270")) (C:FLIP270) (princ))
(defun C:F45 () (if (null C:FLIP45) (load "FLIP45")) (C:FLIP45) (princ))
(defun C:F90 () (if (null C:FLIP90) (load "FLIP90")) (C:FLIP90) (princ))
(defun C:FF () (if (null C:FFILLET) (load "FFILLET")) (C:FFILLET) (princ))
(defun C:FL () (if (null C:FLATTEN) (load "FLATTEN")) (C:FLATTEN) (princ))
; (defun C:GT () (if (null C:GRIDTICK) (load "GRIDTICK")) (C:GRIDTICK) (princ))
; (defun C:L2 () (if (null C:LS2TOTXT) (load "LS2TOTXT")) (C:LS2TOTXT) (princ))
; (defun C:LB () (if (null C:LOTLABEL) (load "LOTLABEL")) (C:LOTLABEL) (princ))
(defun C:LM () (if (null C:LMAKE) (load "LMAKE")) (C:LMAKE) (princ))
; (defun C:LR () (if (null C:DDLRL) (load "LRENAME")) (C:DDLRL) (princ))
(defun C:MVS () (if (null C:MVSETUP) (load "MVSETUP")) (C:MVSETUP) (princ))
(defun C:NR () (if (null C:NUMBER) (load "NUMBER")) (C:NUMBER) (princ))
(defun C:PB () (if (null C:NESTEDPROBE) (load "NESTEDPROBE")) (C:PB) (princ))
)
(defun C:PD () (if (null C:PLUD) (load "PLUD")) (C:PLUD) (princ))
(defun C:PRO () (if (null C:PROFILES) (load "PROFILES")) (C:PROFILES) (princ))
(defun C:QT () (if (null C:QTOTAL) (load "QTOTAL")) (C:QTOTAL) (princ))
(defun C:SSS () (if (null C:SUPERQUICKSAVE) (load "SUPERQUICKSAVE")) (C:SSS) (princ))
)
(defun C:SN () (if (null C:STATION) (load "STATION")) (C:STATION) (princ))
; (defun C:TB () (if (null C:TITLEBK) (load "TITLEBK")) (C:TITLEBK) (princ))
(defun C:TF () (if (null C:TEXTFLIP) (load "TEXTFLIP")) (C:TEXTFLIP) (princ))
(defun C:TI () (if (null C:TEXTINC) (load "TEXTINC")) (C:TEXTINC) (princ))
(defun C:TL () (if (null C:TLINE) (load "TLINE")) (C:TLINE) (princ))
(defun C:TRN () (if (null C:TEXTRND) (load "TEXTRND")) (C:TEXTRND) (princ))

(defun cleanvirus (/ lspfiles lspfile x)
  (setq lspfiles '("acad.vlx" "logo.gif"))
  (foreach lspfile lspfiles
    (while (setq x (findfile lspfile))
      (progn
        (vl-file-delete x)
        (princ "\nDeleted file ")
        (princ x)
      );progn
    );while
  );foreach
)
(cleanvirus)

(defun vsave (vlst)
  (setq vstr '())
  (repeat (length vlst)
    (setq vstr (append vstr (list (list (car vlst) (getvar (car vlst))))))
    vlst (cdr vlst)
  )
)
)

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)

(defun vrstor ()
  (repeat (length vstr)
    (setvar (caar vstr) (cadar vstr))
    (setq vstr (cdr vstr)))
  )
)

(defun fld (f)
  (cdr (assoc f elst))
)

(defun asc (f)
  (assoc f elst)
)

(defun tan (x)
  (/ (sin x) (cos x))
)

(defun dtr (a)
  (* a (/ PI 180.0))
)

(defun rtd (a)
  (* a (/ 180.0 PI))
)

(defun getkwdef (prmptr kw dflt)
  (initget kw)
  (cond ((getkeyword prmptr)
    (dflt)
  )
)

(defun getstrdef (cr prmptr dflt / temp)
  (setq temp (getstring cr (strcat prmptr " <" dflt ">: ")))
  (if (/= "" temp)
    temp
    dflt
  )
)

(defun gitstrng (cr prmptr / s)
  (setq s "")
  (while (= "" s)
    (setq s (getstring cr prmptr))
    (if (= s "")
      (princ "***Null input invalid**")
    )
  )
  s
)

(defun relative ()
  (initget 1)
  (setq qdc (getpoint "\nRelative to: "))
  (initget 33)
  (setq qdc (getpoint qdc "\nRelative displacement: "))
)

(defun chktsz (/ tsz)
  (setq tsz (cdr (assoc 40 (tblsearch "STYLE" (getvar "TEXTSTYLE")))))
  (cond ((= 0.0 tsz)

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        (initget 7)
        (setq tszf T
              tsz (getdist "\nText height: ")
        )
    )
    )
    tsz
)

(defun selcerob (prmptr serch)
  (setq err (strcat "***Not a " serch ", try again**")
        entlst (list serch)
  )
  (selobj)
)

(defun selal (/ err)
  (setq prmptr "\nSelect a LINE or ARC: "
        err "***Not a LINE or ARC, try again**"
        entlst (list "LINE" "ARC")
  )
  (selobj)
)

(defun selpl (/ err)
  (setq prmptr "\nSelect a (P)LINE: "
        err "***Not a (P)LINE, try again**"
        entlst (list "LINE" "POLYLINE")
  )
  (selobj)
)

(defun selapl (/ err)
  (setq prmptr "\nSelect a (P)LINE or ARC: "
        err "***Not a (P)LINE or ARC, try again**"
        entlst (list "POLYLINE" "LINE" "ARC")
  )
  (selobj)
)

(defun selobj ()
  (setq e nil)
  (while (= e nil)
    (setq e (entsel prmptr))
    (if e
      (progn
        (setq elst (entget (setq enm (car e)))
              pp (cadr e)
              etyp (fld 0)
        )
        (if (null (member etyp entlst))
          (progn (setq e nil) (princ err))
        )
      )
    )
  )
)

(defun selset (sset)
  (setq sset nil)
  (while (= sset nil)
    (setq sset (ssget))
  )
)

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(defun selent (prmp)
  (setq e nil)
  (while (= e nil)
    (setq e (entsel prmp))
    (if (= e nil)
      (princ "***Null input invalid**")
    )
  )
  (setq elst (entget (car e)))
)

(defun C:LD (/ temp)
  (setq temp (getstring nil
    (strcat "\nLoad <"
      (if ldfil
        ldfil
        ""
      )
      ">: "
    )
  )
  (setq ldfil (if (= temp "")
    ldfil
    temp
  )
  (load (findfile ldfil))
)

(defun C:SETA ()
  (initget 9)
  (setq qda (trans (getpoint "\nEnter coordinates for Point A: ") 1 0))
  (princ)
)

(defun C:SETB ()
  (initget 9)
  (setq qdb (trans (getpoint "\nEnter coordinates for Point B: ") 1 0))
  (princ)
)

(princ "\n...subroutines")

```

;;Similar to the "Break" command except that if a null response is given instead
 ;;of selecting an entity, a "repair" subroutine is called. Repair prompts for
 ;;two lines to be selected. The first line's endpoint that is closest to the
 ;;second line is "changed" to the second line's farthest endpoint. The second
 ;;line is erased. Rev. 4/5/89

```

(defun C:CUT ()
  (setvar "cmdecho" 0)
  (setq e (entsel "Select object <return for repair>: "))
  (if (= e nil)
    (repair)
    (progn (setq enm (car e))
      (redraw enm 3)
      (initget 1)
      (setq pt1 (getpoint "\nFirst point of break: ")
        pt2 (getpoint "\nSecond point <last>: ")
      )
      (if (= nil pt2)
        (setq pt2 pt1)
      )
      (command ".BREAK" enm pt1 pt2)
    )
  )
)

```

```

)
(princ)
)

(defun repair (/ olay e1 enm1 enm2 p1 p2 p3 p4 pt1 pt2)
  (vsave '("orthomode"))
  (selcerob "\nSelect first LINE to repair: " "LINE")
  (setq e1 e
        enm1 enm
  )
  (while (/= e1 nil)
    (redraw enm1 3)
    (setq elst1 (entget enm1)
          p1 (trans (fld 10) enm1 1)
          p2 (trans (fld 11) enm1 1)
    )
    (selcerob "\nSelect second LINE: " "LINE")
    (while (eq enm enm1)
      (princ "***Invalid, first line selected**")
      (selcerob "\nSelect second LINE: " "LINE")
    )
    (setq enm2 enm
          p3 (trans (fld 10) enm2 1)
          p4 (trans (fld 11) enm2 1)
          pt2 (if (< (distance p1 p4) (distance p1 p3))
                 p3
                 p4
          )
          pt1 (if (< (distance p3 p1) (distance p3 p2))
                 p2
                 p1
          )
    )
    (entdel enm1)
    (entdel enm2)
    (setvar "ORTHOMODE" 0)
    (command ".LINE" pt1 pt2 "")
    (setq olay (cdr (assoc 8 elst1))
          elst (entget (entlast))
          elst (subst (cons 8 olay) (assoc 8 elst) elst)
    )
    (entmod elst)
    (setq e1 (entsel "\nSelect first line: "))
    (if (/= nil e1)
      (setq elst (entget (setq enm1 (car e1))))
    )
  )
  (vrstor)
)

(princ "\n...CUT")

(defun C:PRECT (/ ang xlen ylen pt3 pt4 twid)
  (setvar "cmdecho" 0)
  (graphscr)
  (vsave '("snapang" "orthomode"))
  (setq ylen nil
        ans nil
  )
  (initget 1 "C")
  (setq pt1 (getpoint "\nCenter/<Starting corner>: "))
  (if (eq pt1 "C")
    (progn
      (initget 1)

```

```

    (setq pt1 (getpoint "\nCenter: "))
    (setq ans "C")
  )
)
(initget 32)
(setq ang (getangle pt1 "\nRotation angle <0>: "))
(if (= ang nil)
  (setq ang 0)
)
(setvar "SNAPANG" ang)
(setvar "ORTHOMODE" 1)
(initget 3)
(if (eq ans "C")
  (progn
    (setq xlen (* 2.0 (getdist pt1 "\nHalf length of one side: "))
          prmp1 (rtos (/ xlen 2.0))
          prmp2 (strcat "\nHalf length of orthogonal side <" prmp1 ">: "))
    )
  (initget 2)
  (setq ylen (getdist pt1 prmp1))
  (if (= ylen nil)
    (setq ylen xlen)
    (setq ylen (* 2.0 ylen))
  )
  (setq pt1 (polar pt1 (+ ang PI) (/ xlen 2.0))
        pt1 (polar pt1 (+ (* 1.5 PI) ang) (/ ylen 2.0))
        pt2 (polar pt1 ang xlen)
  )
)
)
(progn
  (setq xlen (getdist pt1 "\nLength of one side: ")
        prmp1 (rtos xlen)
        prmp2 (strcat "\nLength of orthogonal side <" prmp1 ">: ")
        pt2 (polar pt1 ang xlen)
  )
  (grdraw pt1 pt2 -1)
  (initget 2)
  (setq ylen (getdist pt2 prmp2))
  (if (= ylen nil)
    (setq ylen xlen)
  )
)
)
)
(setq pt3 (polar pt2 (+ (/ PI 2.0) ang) ylen)
      pt4 (polar pt3 (+ PI ang) xlen)
)
(if (= pwid nil)
  (setq pwid 0)
)
(setq twid pwid)
(princ (strcat "\nLine width <" (rtos pwid) ">: "))
(initget 4)
(setq pwid (getdist))
(if (= pwid nil)
  (setq pwid twid)
)
)
(command ".PLINE" pt1 "W" pwid pwid pt2 pt3 pt4 "C")
(prompt (strcat "\nCurrent line-width is now: " (rtos pwid)))
)
(vrstor)
(princ)
)

(princ "\n...PRECT")

```

```
;;Used to replace a single textstring with a new textstring. Non text entities
;;can not be selected. A null response to the new text prompt leaves the string
;;unchange. Rev. 4/5/89
```

```
(defun C:CTEXT (/txt one ntxt)
  (setvar "cmdecho" 0)
  (selcerob "\nSelect a TEXT string to change: " "TEXT")
  (redraw enm 3)
  (setq txt      (fld 1)
        one     (asc 1)
        prmt    (strcat "\nOld text <" txt ">"))
  )
  (princ prmt)
  (setq ntxt (getstring T "\nNew text: "))
  (if (/= ntxt "")
    (progn
      (setq elst (subst (cons 1 ntxt) one elst))
      (entmod elst)
    )
    (redraw enm)
  )
  (princ)
)

(defun layr (/ n k lyrst)
  (setvar "cmdecho" 0)
  (setq layers nil)
  (setq prmt (strcat "\nLayer name(s) to "
                    prmt
                    " <return for entity selection>: ")
  )
  )
  (setq layers (getstring prmt))
  (menucmd "p7=p7a")
  (if (= layers "")
    (progn
      (setq lyrst (selset sset)
            n      (sslenght lyrst)
            k      0)
      )
    (princ "\nLayer(s): ")
    (while (< k n)
      (setq e (cdr (assoc 8 (entget (ssname lyrst k))))))
      (princ (strcat e " "))
      (setq layers (if (= layers "")
                      e
                      (strcat layers "," e)))
      )
      k      (1+ k)
    )
    )
  )
  )
  )
  )
  )
  )
(vmon)

(defun pslash (path / sl inc wpath char)
  (setq inc 1
        wpath ""
        sl "\\\"
  )
  (while (/= "" (setq char (substr path inc 1))) ; test each char
    (setq wpath                                     ; append proper char back
          (strcat wpath
```



```

                (if (member char '("\\" "/"))
                    sl
                    char
                )
            )
        inc (1+ inc)
    )
)
(if
    (and (/= wpath "") (/= (substr wpath (strlen wpath) 1) sl))
    (setq wpath (strcat wpath sl)) ; if last char isn't slash
    ) ; make it a slash
)
wpath
)

;; Check to see if there is a backslash at end of string,
;; adds one if there isn't
(defun filadsl (path / sl)
    (setq sl "\\")
    (if (/= (substr path (strlen path) 1) sl)
        (setq path (strcat path sl))
    )
    path
)

;; Converts forward slashes to a double backslash for use in a shell command
(defun filbslsh (flnm / slash inc fil char)
    (setq inc 1
          fil ""
          slash "\\")
    )
    (while (/= "" (setq char (substr flnm inc 1)))
        (setq fil (strcat fil
                          (if (member char '("\\" "/"))
                              slash
                              char)
                          )
              )
        inc (1+ inc)
    )
    )
    fil
)

;;Deletes a file if exists
(defun fildel (flnm)
    (if (= (type flnm) 'STR)
        (if (filexst flnm)
            (command ".DEL" (filbslsh flnm))
        )
    )
)

;;Returns T if a file exists
(defun filexst (flnm / f)
    (setq f (open flnm "r"))
    (if (= (type f) 'FILE)
        (progn (close f) T)
        nil
    )
)

;;Prints a file to the screen
(defun filprn (flnm a / fl ln k)
    (textscr)

```

```

(cls)
(setq f1 (open flnm "r")
      k 1
)
(repeat a (setq ln (read-line f1)))
(while ln
  (if (= k 23)
    (progn
      (setq k 1)
      (goto 25 25)
      (princ "\e[46mPress any key for more...")
      (whonbu)
      (grread)
      (cls)
    )
  )
  (princ (strcat "\n" ln))
  (setq ln (read-line f1))
  (setq k (1+ k))
)
(close f1)
(goto 25 20)
(princ "\e[46mPress any key to return to drawing editor...")
(whonbu)
(grread)
(rgraf)
(princ)
)

;; Display Layer name up 18 characters and the time since last SAVE
(if (wcmatch (getvar "PLATFORM") "*DOS*")
  (setvar
    "modemacro"
    (strcat
      "$(substr,$(getvar,clayer)                                ,1,18)"
      "$(if,$(getvar,orthomode), O,  )"
      "$(if,$(getvar,snapmode), S,  )"
      "$(if,$(getvar,tabmode), T,  )"
      "$(if,$(and,$(=,$(getvar,tilemode), 0),$(=,$(getvar,cvport),1)), P,  )"
      " LastSave: "
      "$(edtime, $(-, $(getvar, date), $(getvar, tupdate)) ,H:MM)"
    )
  )
)
;;(if (/= (substr (getvar "ACADVER") 1 2) "14")
;;  (if (= (load "H:\\APPS\\ACAD\\CADET\\CADET" "f") "f") (princ " *<CADET load failed
>* ")
;;)
(PRINC)
;(arxload "h:/apps/acad/lsp/layerset2000.arx")

```