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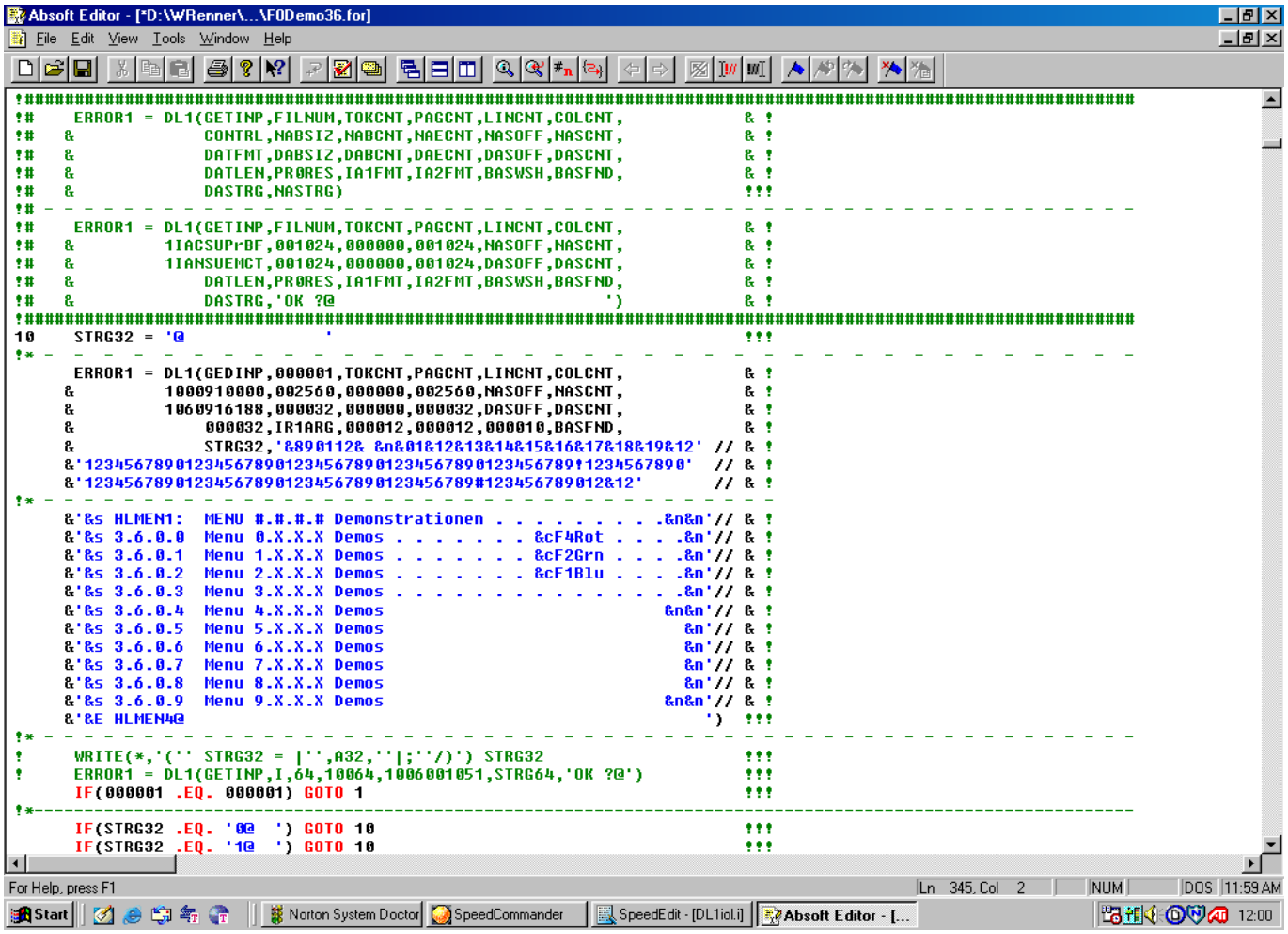
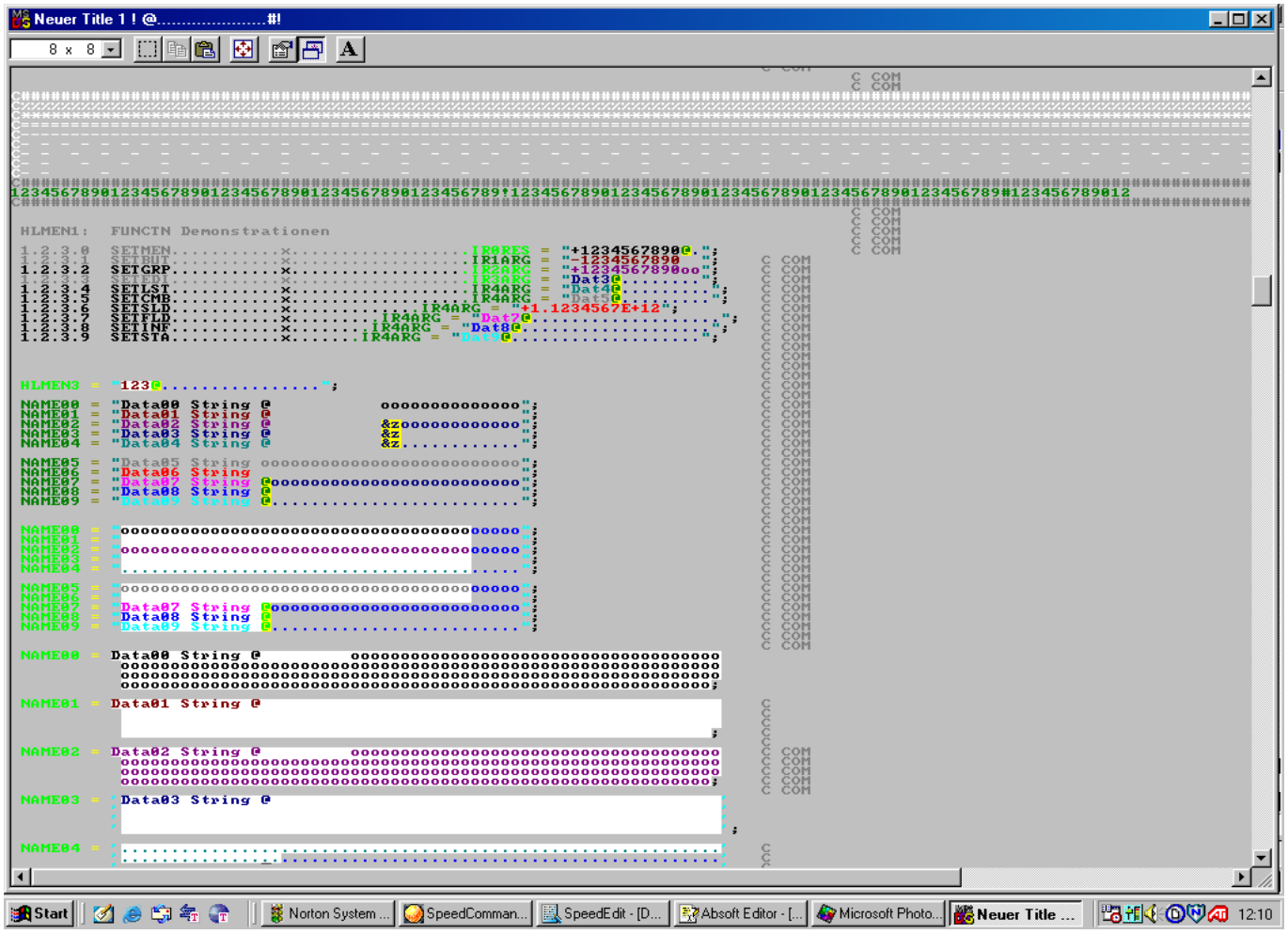
Projektbeschreibung DisplayLibrary „DspLib“

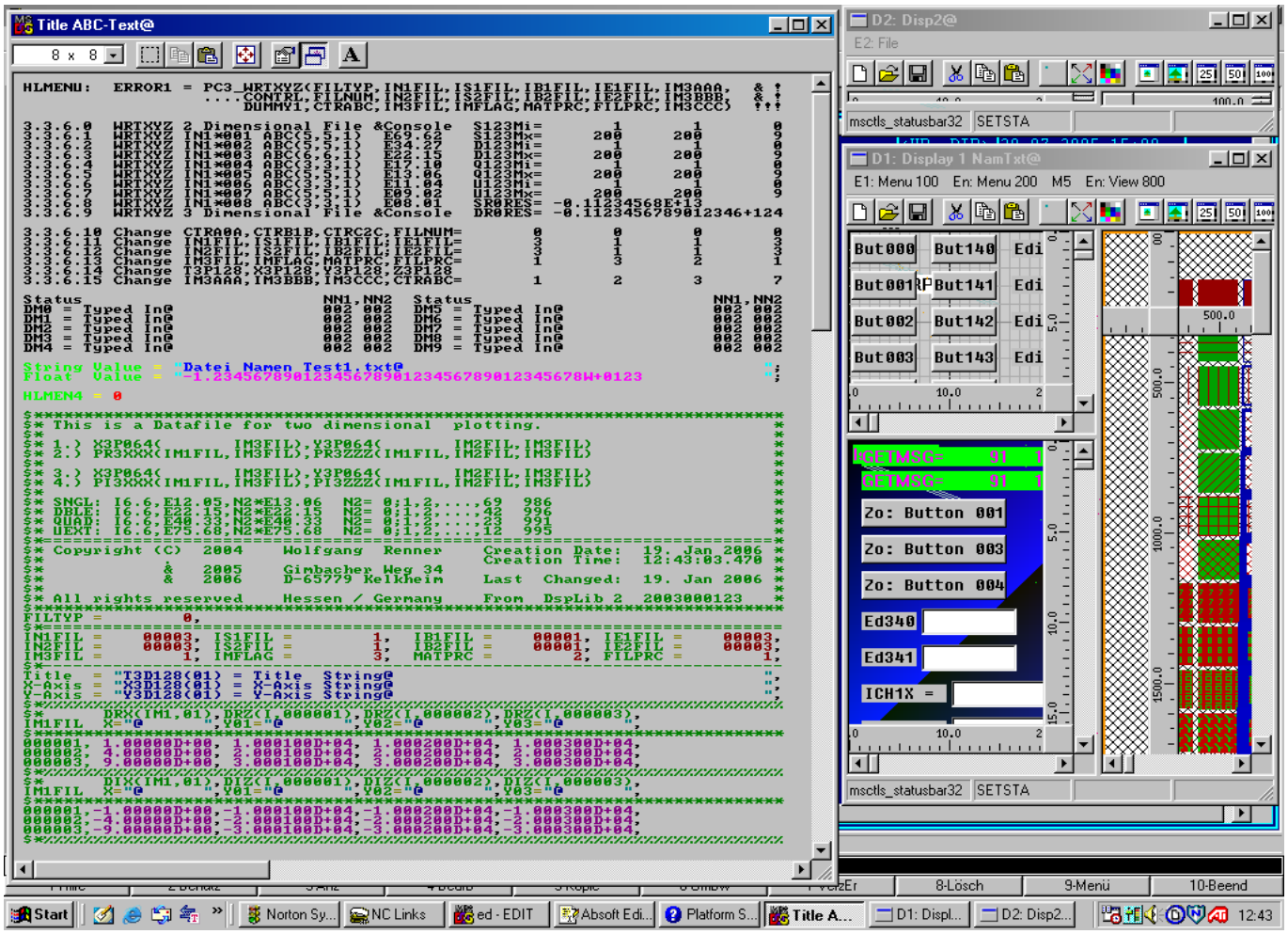
Eine Funktionsbibliothek zur einfachen Anwendungsprogrammierung in Fortran, C, Pascal usw. mit Bildbearbeitungsmöglichkeiten

Um einfach (naturwissenschaftliche) numerische Themen programmieren zu können, entwickelte ich meine „DspLib“ Funktionsbibliothek die dem Fortran, C usw. Programmierer eine „kinderleichte“ Möglichkeit gibt, in der (bunten) Console Anwendungen zu programmieren, sowie graphische Benutzeroberflächen (Displays) mit Bildbearbeitungsfunktionen zu öffnen. Es gibt ein CSV-Token (Comma-Separated-Values) Klartext-System um vielerlei Datensätze zu speichern und eine einfache Mensch-Maschine Kommunikation zu ermöglichen. Dieses CSV-System bildet sequenzielle Datentoken mit einem optionalen Namen und Datenwert, der als String dargestellt wird, aber auch Zahlenwerte darstellen kann. Diese in allen Zahlenbasen von 2 bis 36 und mit beliebiger Präzision. Damit kann man Festplatten-Dateien bilden. Auch die interaktive Eingabe in die Console erfolgt mit dem gleichen System, bei denen der Datenteil editierbar ist. Im Windows werden bunte GUI-Objekte (Buttons, Edits, usw.) in einem unsystematischen Ansatz meistens mit WinProc-Aufrufen erzeugt. Ein DspLib-Anwender muss sich darüber keine Gedanken machen. Es gibt eine einfache Farbeingabe, die dann von DspLib individuell dem Windows API übermittelt wird. DspLib soll als Basis von numerischen Lehrbüchern dienen. Außerdem wäre es die Software-Oberfläche von elektronischen Geräten aus der Produktion der Lehrwerkstatt in Schloss Fünfeck (Meß- und Simulationstechnik).

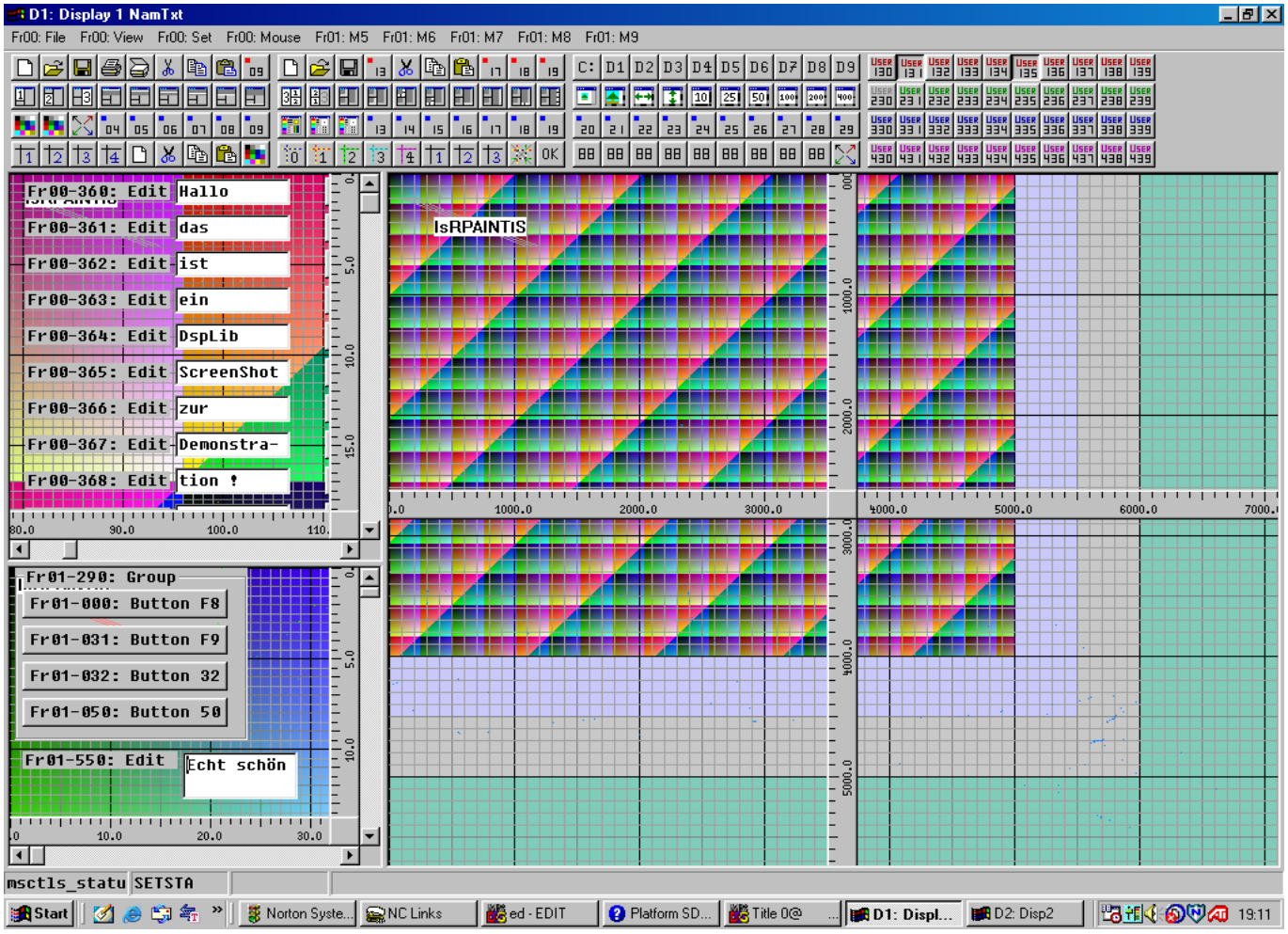


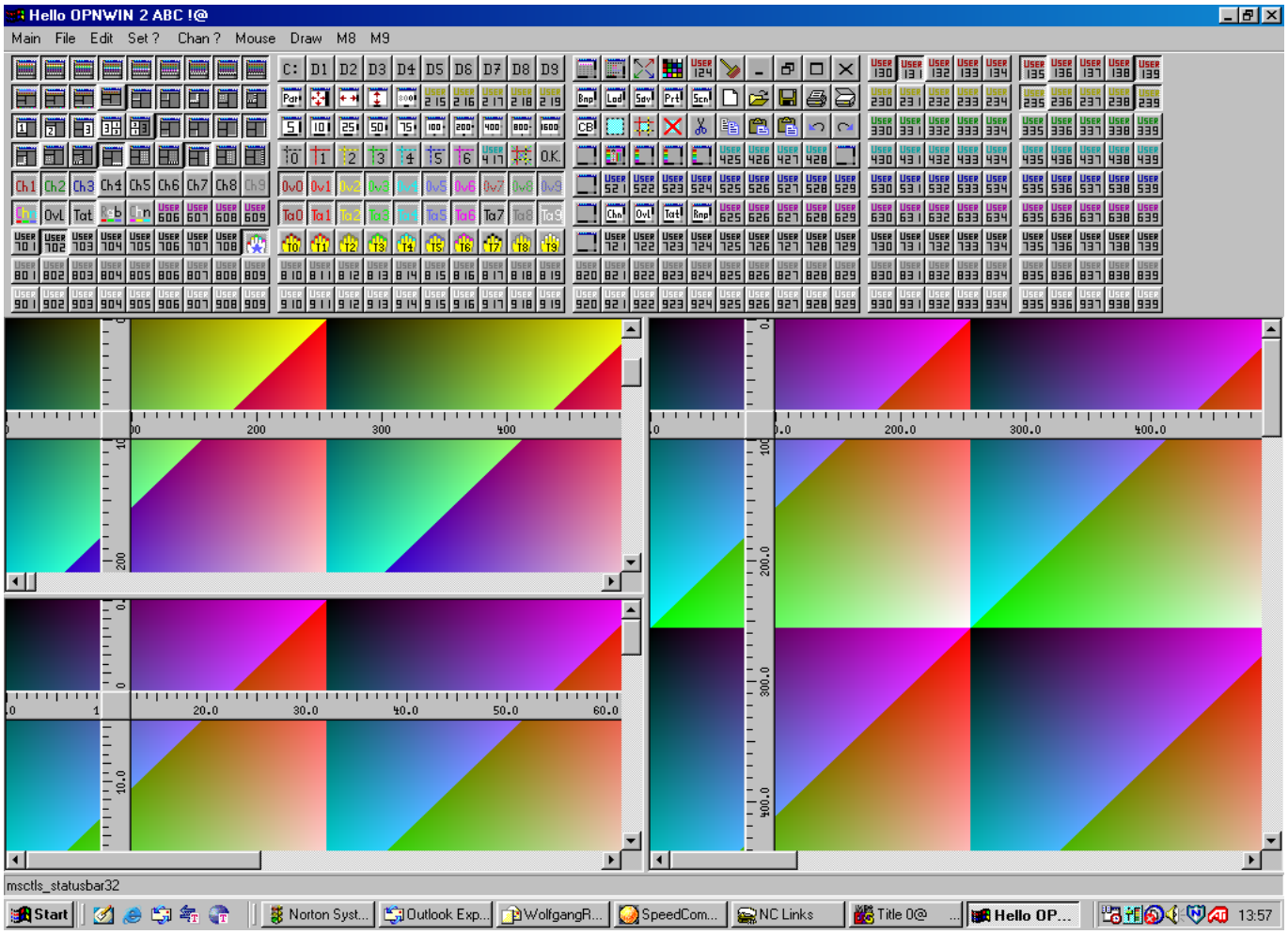
```
!%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
!%    ERROR2 = DL1(FLREAD,FILNUM,TOKCNT,PAGCNT,LINCNT,COLCNT,              & !
!%   &              CONTRL,NABSIZ,NABCNT,NAECNT,NASOFF,NASCNT,             & !
!%   &              DATFMT,DABSIZ,DABCNT,DAECNT,DASOFF,DASCNT,             & !
!%   &              DATLEN,PRORES,BASFND,CHRCNT,DASTRG,NASTRG)             !!!
!% - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
!%    ERROR2 = DL1(FLREAD,FILNUM,TOKCNT,PAGCNT,LINCNT,COLCNT,              & !
!%   &          1IACSUPrBa,001024,000000,001024,NASOFF,NASCNT,             & !
!%   &          1IANSUEMCT,001024,000000,001024,DASOFF,DASCNT,             & !
!%   &              DATLEN,PRORES,BASFND,CHRCNT,DASTRG,NASTRG)             !!!
!%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
10000 ERROR2 = IS4(FILNUM,NABSIZ,DABSIZ,0000011,0000012,0000022,0000032) !!!
      TOKCNT = IS4(PAGCNT,LINCNT,COLCNT,0000013,0000014,0000015,0000016) !!!
      NABCNT = IS4(NAECNT,NASOFF,NASCNT,0000023,0000024,0000025,0000026) !!!
      DABCNT = IS4(DAECNT,DASOFF,DASCNT,0000033,0000034,0000035,0000036) !!!
      DATLEN = IS4(IRORES,BASFND,CHRCNT,0000041,0000042,0000043,0000044) !!!
!* -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -
      CONTRL = 1007925151                                                !!!
      DATFMT = 1000000031                                                !!!
!* -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -
      DASTRG = 'FLREAD Data String @                                   ' !!!
      NASTRG = 'FLREAD Name String @                                   ' !!!
!* - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
      ERROR1 = DL1(MILTIM,TIME01,1000000000)                             !!!
!* -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -
!     ERROR2 = DL1(FNREAD,FILNUM,TOKCNT,PAGCNT,LINCNT,COLCNT,            & !
!    &              CONTRL,NABSIZ,NABCNT,NAECNT,NASOFF,NASCNT,           & !
!    &              DATFMT,DABSIZ,DABCNT,DAECNT,DASOFF,DASCNT,           & !
!    &              DATLEN,PRORES,BASFND,CHRCNT,DASTRG,NASTRG)           !!!
!* -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -
      ERROR3 = DL1(MILTIM,TIME02,1000000000)                             !!!
!* - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        WRITE(*,'(// '' ERROR2 = DL1('',                             '// & !
     &'     ''FLREAD,FILNUM,TOKCNT,PAGCNT,LINCNT,COLCNT,       & !'''/'// & !
     &'14X, ''CONTRL,NABSIZ,NABCNT,NAECNT,NASOFF,NASCNT,       & !'''/'// & !
     &'14X, ''DATFMT,DABSIZ,DABCNT,DAECNT,DASOFF,DASCNT,       & !'''/'// & !
     &'14X, ''DATLEN,IRORES,BASFND,CHRCNT,DASTRG,NASTRG)       !!!'''/'// & !
     &'I7.6,  13X,   I07.04,I07.04,I07.04,I07.04,I07.04/             '// & !
     &'09X,   I11.10,I07.04,I07.04,I07.04,I07.04,I07.04/             '// & !
     &'09X,   I11.10,I07.04,I07.04,I07.04,I07.04,I07.04/             '// & !
     &'09X,   I11.06,I07.04,I07.04,I07.04,//                         '// & !
     &'       ''DA|'',A64,''|DA''/''NA|'',A64,''|NA''/)               ')  & !
     & ERROR2,       FILNUM,TOKCNT,PAGCNT,LINCNT,COLCNT,                 & !
     &        CONTRL,NABSIZ,NABCNT,NAECNT,NASOFF,NASCNT,                 & !
     &        DATFMT,DABSIZ,DABCNT,DAECNT,DASOFF,DASCNT,                 & !
     &        DATLEN,IRORES,BASFND,CHRCNT,DASTRG,NASTRG                  !!!
!* - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
!*    WRITE(*,'(''W1DWRD '',08(Z11.08,'',''),Z11.08,'' End'')')          & !
!*   &            (W1DWRD(I),I = 001,009)                                !!!
!*    WRITE(*,'(''W1WORD '',17(Z05.04,'',''),Z05.04,'' End'')')          & !
!*   &            (W1WORD(I),I = 001,018)                                !!!
!*    WRITE(*,'(''W1STRG '',35(Z02.02,'',''),Z02.02,'' End'')')          & !
!*   &     (ICHAR(W1STRG(I:I)),I = 001,036)                              !!!
!* -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -
      TIME12 = MAX( TIME02-TIME01,1)                                     !!!
      WRITE(*,'(/'' FLREAD TIME01,TIME02,TIME12,GRP/SEC='',2I11,2I09/)') & !
     &                  TIME01,TIME02,TIME12,((1000*001000) /TIME12)     !!!
!* - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
!     ERROR1 = DL1(GETINP,I,64,10064,1006001051,STRG64,'OK ?@')          !!!
!     IF(000001 .EQ. 000001) GOTO 1111                                   !!!
!*    IF(000001 .EQ. 000001) GOTO 99998                                  !!!
!%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
!%    ERROR1 = DL1(FLWRIT,FILNUM,TOKCNT,PAGCNT,LINCNT,COLCNT,            & !
!%   &              CONTRL,NABSIZ,NABCNT,NAECNT,NASOFF,NASCNT,           & !
!%   &              DATFMT,DABSIZ,DABCNT,DAECNT,DASOFF,DASCNT,           & !
!%   &              DATLEN,PR1ARG,IA1FMT,IA2FMT,BASWSH,CHRCNT,           & !
!%   &              DASTRG,NASTRG)                                       !!!
!% - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
!%    ERROR1 = DL1(FLWRIT,000000,TOKCNT,PAGCNT,LINCNT,COLCNT,            & !
!%   &          1IACSUPrBF,000320,000000,000320,NASOFF,NASCNT,           & !
!%   &          1IANSUEMCT,001024,000000,001024,DASOFF,DASCNT,           & !
!%   &              000640,PR1ARG,000012,000012,000010,CHRCNT,           & !
!%   &              DASTRG,'Name String @                 ')             !!!
!%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
      ERROR2 = IS4(FILNUM,NABSIZ,DABSIZ,0000011,0000001,0001024,0001024) !!!
      TOKCNT = IS4(PAGCNT,LINCNT,COLCNT,0000013,0000014,0000015,0000016) !!!
      NABCNT = IS4(NAECNT,NASOFF,NASCNT,0000000,0001024,0000025,0000026) !!!
      DABCNT = IS4(DAECNT,DASOFF,DASCNT,0000000,0001024,0000035,0000036) !!!
      IA1FMT = IS4(IA2FMT,BASWSH,CHRCNT,0000012,0000012,0000010,0000046) !!!
      CONTRL = IS4(DATFMT,DATLEN,IR1ARG,0000021,0000031,0000041,0000042) !!!
!* -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -
```


Neuer Title 1 ! @.....#!
HLMEN1: FUNCTN Demonstrationen
HLMEN3 = "123@.....";
Start
Norton System ...
SpeedComman...
SpeedEdit - [D...
Absoft Editor - [...
Microsoft Photo...
Neuer Title ...
12:10

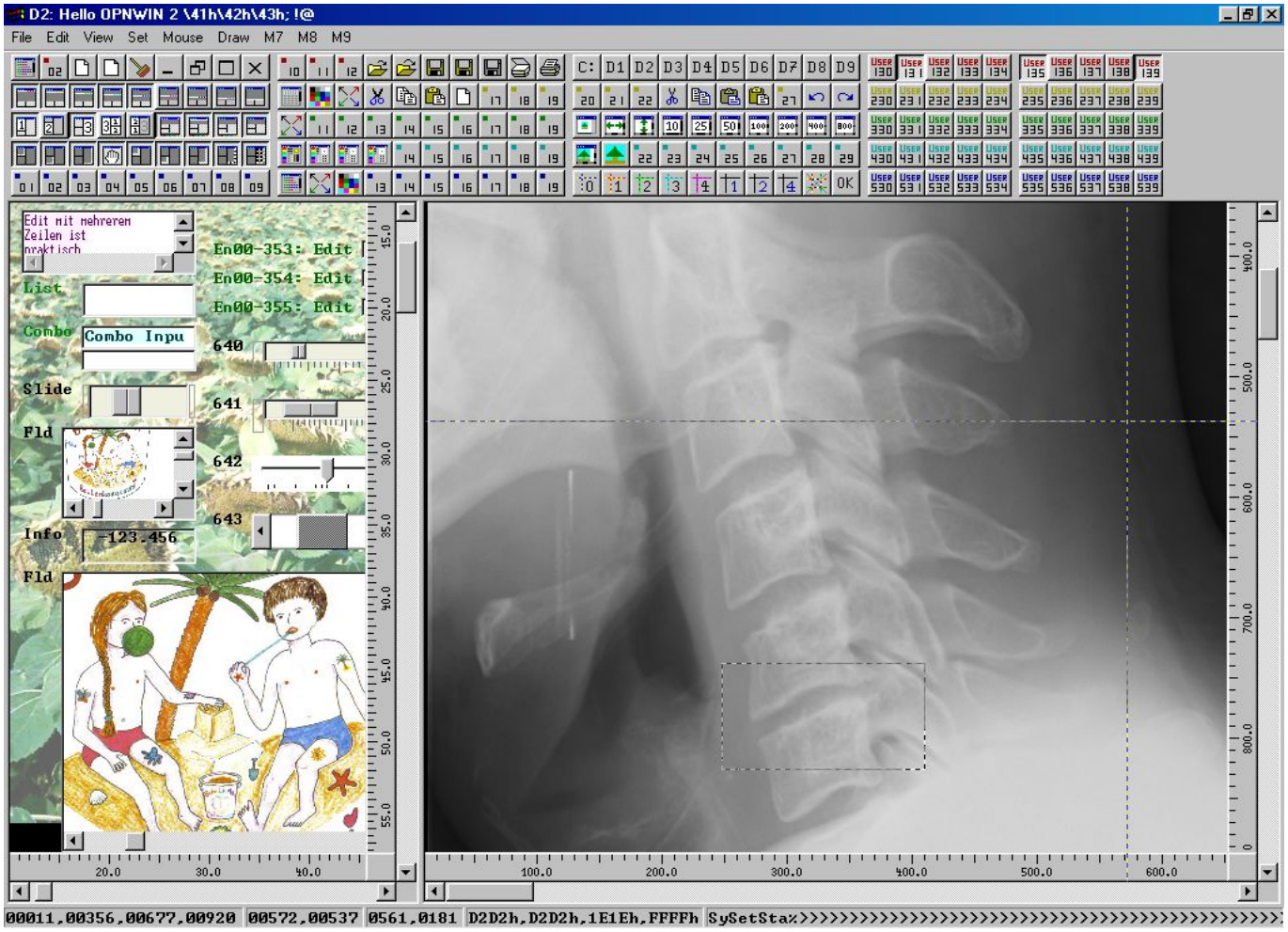

Title ABC-Text@
HLMENU: ERROR1 = PC3_WRTXYZ(FILTYP,IN1FIL,IS1FIL,IB1FIL,IE1FIL,IM3AAA,
D2: Disp2@
D1: Display 1 NamTxt@
E1: Menu 100 En: Menu 200 M5 En: View 800
But000
But001
But002
But003
But140
But141
But142
But143
Zo: Button 001
Zo: Button 003
Zo: Button 004
Ed340
Ed341
ICH1X =
msctls_statusbar32
SETSTA
8-Lösch
9-Menü
10-Beend
Start
Norton Sy...
NC Links
ed - EDIT
Absoft Edi...
Platform S...
Title A...
D1: Displ...
D2: Disp2...
12:43

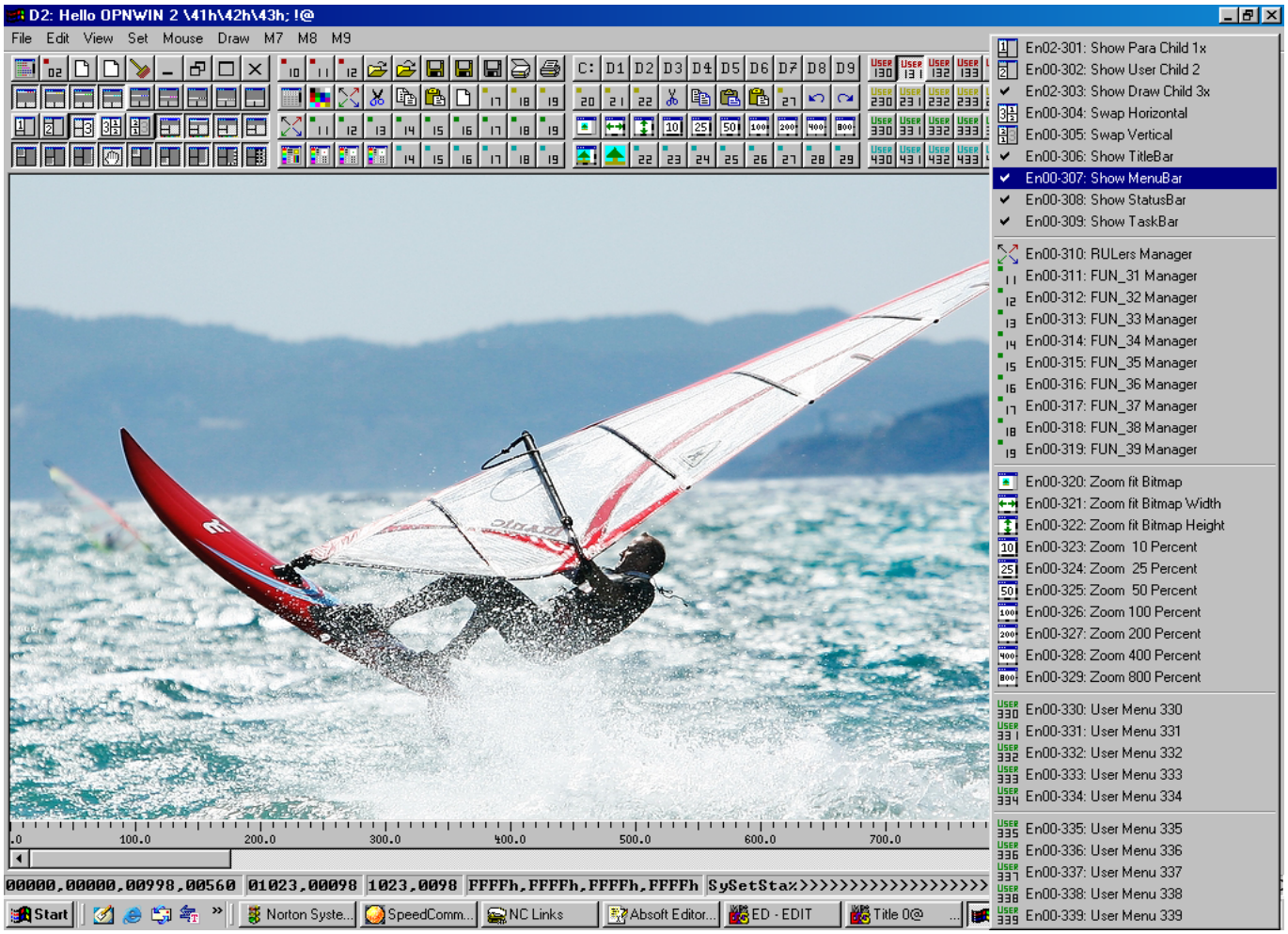
```
;%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
;% 120000 Proces Scroll Changes              ;                                 %
;%-------------------------------------------------------------------------%
;% 120000 VK_SPACE               equ    020h ; #define VK_SPACE      0x20h %
;% - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - %
;% 120010 VK_PRIOR               equ    021h ; #define VK_PRIOR      0x21h %
;% 120020 VK_NEXT                equ    022h ; #define VK_NEXT       0x22h %
;% 120030 VK_END                 equ    023h ; #define VK_END        0x23h %
;% 120040 VK_HOME                equ    024h ; #define VK_HOME       0x24h %
;% - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - %
;% 120050 VK_LEFT                equ    025h ; #define VK_LEFT       0x25h %
;% 120060 VK_UP                  equ    026h ; #define VK_UP         0x26h %
;% 120070 VK_RIGHT               equ    027h ; #define VK_RIGHT      0x27h %
;% 120080 VK_DOWN                equ    028h ; #define VK_DOWN       0x28h %
;%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
GI120000: mov    eax,'1200'                 ; fetch EAX := GetInputs 120000
;*        mov    edx, 000003Dh              ; 0000B-EAX-NN-DVAL-NwLn-B0Char
;*        call        M1OutLib              ; Write Out
;* debugs jmp    LJMP GetInpGT              ; Goto: End
;*-------------------------------------------------------------------------
GI120001: cmp    DVAL[lbp+frw_bKeyDown],BC 0 ; test: <bool> KeyDownFlag == 0
          je     LJMP GI@00000              ; EQ -> Ignore KeyUp        \ ?
;* next   jmp    BJMP GI120002              ; NE -> Proces KeyDownPressed !
;* - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
GI120002: mov    DVAL[lbp+frw_ScrMovDZ],006  ; store 006 => ScrollMoveDeltaZ
;*************************************************************************
GI12@000: call        SyChrMov              ; call: CharMv(LDI,LSI,LBP,LBX)
          jge    BJMP GI12@008              ; GE -> Pretty Successi
;* next   jmp    BJMP GI12@001              ; LT -> Error: Mystical
;* - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
GI12@001: mov    edx, EnMystic              ; ErrorNumber "Mystical"
          mov    ecx, 00120001              ; ErrorLabel: "GI120001"
          call        EmGetInp              ; ErrorMessag "SyGetInp"
;*        jmp    LJMP GetInpLT              ; Return with "LessThan"
;*-------------------------------------------------------------------------
GI12@008: dec    DVAL[lbp+frw_RepCount]     ; decrementing RepeatCountInput
;* -     -     -     -     -     -     -     -     -     -     -     -     -
          jg     BJMP GI12@000              ; GT -> Cycles Repeats-
          je     LJMP GI@00000              ; EQ -> Leaves CntrLoop
;* next   jmp    BJMP GI12@009              ; LT -> Error: Mystical
;* - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
GI12@009: mov    edx, EnMystic              ; ErrorNumber "Mystical"
          mov    ecx, 00120009              ; ErrorLabel: "GI120009"
          call        EmGetInp              ; ErrorMessag "SyGetInp"
          jmp    LJMP GetInpLT              ; Return with "LessThan"
;%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
;% 120010 VK_PRIOR               equ    021h ; #defines  VK_PRIOR     0x21 %
;%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
GI120010: mov    eax,'1201'                 ; fetch EAX := GetInputs 120010
;*        mov    edx, 000003Dh              ; 0000B-EAX-NN-DVAL-NwLn-B0Char
;*        call        M1OutLib              ; Write Out
;* debugs jmp    LJMP GetInpGT              ; Goto: End
;*-------------------------------------------------------------------------
GI120011: cmp    DVAL[lbp+frw_bKeyDown],BC 0 ; test: <bool> KeyDownFlag == 0
          je     LJMP GI@00000              ; EQ -> Ignore KeyUp        \ ?
;* next   jmp    BJMP GI120012              ; NE -> Proces KeyDownPressed !
;* - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
GI120012: mov    DVAL[lbp+frw_ScrMovDZ],002  ; store 002 => ScrollMoveDeltaZ
;*************************************************************************
GI121000: call        SyScrMov              ; call: ScrMov(LDI,LSI,LBP,LBX)
          jge    BJMP GI121008              ; GE -> Pretty Successi
;* next   jmp    BJMP GI121001              ; LT -> Error: Mystical
;* - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
GI121001: mov    edx, EnMystic              ; ErrorNumber "Mystical"
          mov    ecx, 00121001              ; ErrorLabel: "GI121001"
          call        EmGetInp              ; ErrorMessag "SyGetInp"
;*        jmp    LJMP GetInpLT              ; Return with "LessThan"
;*-------------------------------------------------------------------------
GI121008: dec    DVAL[lbp+frw_RepCount]     ; decrementing RepeatCountInput
;* -     -     -     -     -     -     -     -     -     -     -     -     -
          jg     BJMP GI121000              ; GT -> Cycles Repeats-
          je     LJMP GI@00000              ; EQ -> Leaves CntrLoop
;* next   jmp    BJMP GI121009              ; LT -> Error: Mystical
;* - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
GI121009: mov    edx, EnMystic              ; ErrorNumber "Mystical"
          mov    ecx, 00121009              ; ErrorLabel: "GI121009"
          call        EmGetInp              ; ErrorMessag "SyGetInp"
          jmp    LJMP GetInpLT              ; Return with "LessThan"
;%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
;% 120020 VK_NEXT                equ    022h ; #defines  VK_NEXT      0x22 %
;%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```


D1: Display 1 NamTxt
Fr00: File Fr00: View Fr00: Set Fr00: Mouse Fr01: M5 Fr01: M6 Fr01: M7 Fr01: M8 Fr01: M9
Fr00-360: Edit Hallo
Fr00-361: Edit das
Fr00-362: Edit ist
Fr00-363: Edit ein
Fr00-364: Edit DspLib
Fr00-365: Edit ScreenShot
Fr00-366: Edit zur
Fr00-367: Edit Demonstra-
Fr00-368: Edit tion !
IsRPAINTIS
Fr01-290: Group
Fr01-000: Button F8
Fr01-031: Button F9
Fr01-032: Button 32
Fr01-050: Button 50
Fr01-550: Edit Echt schön
msctls_statu SETSTA
Start
Norton Syste...
NC Links
ed - EDIT
Platform SD...
Title 0@
D1: Displ...
D2: Disp2
19:11


Hello OPNWIN 2 ABC !@
Main File Edit Set ? Chan ? Mouse Draw M8 M9
msctls_statusbar32
Start
Norton Syst...
Outlook Exp...
WolfgangR...
SpeedCom...
NC Links
Title 0@
Hello OP...
13:57

```
//=============================================================================
//     error = DL1(OpnWin,winnum,lftedg,topedg,winwdt,winhgt,contrl,
//                 wtitle,bmifil,fnthnd,dummy1,winsrc,bmpwdt,bmphgt)
//=============================================================================
       winnum = 1 ; lftedg= 670 ; topedg=   0 ; winwdt=350 ; winhgt=250 ;
       contrl = 100000 ; *owtitl= "01 Window CPP @" ;
       fnthnd = 0      ; *cfgfil= "D1OpnWin.ini@" ;
       dummy1 = 0  ; winsrc = 0 ; bmpwdt = 1024 ; bmphgt = 1024 ;
       error = DL1(OpnWin,winnum,lftedg,topedg,winwdt,winhgt,contrl,
                 *owtitl,&MYNULL,fnthnd,dummy1,winsrc,bmpwdt,bmphgt);
// - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       dspnum = 1 ; lftedg= 670 ; topedg= 255 ; winwdt=350 ; winhgt=250 ;
       contrl = 100000 ; *odtitl= "11 Display CPP @" ;
       fnthnd =      0 ; *bmifil= "D1OpnDsp.ini@" ;
       dummy1 = 0  ; winsrc = 0 ; bmpwdt =  300 ; bmphgt = 150 ;
       error = DL1(OpnDsp,dspnum,lftedg,topedg,winwdt,winhgt,contrl,
                 *odtitl,*bmifil,fnthnd,dummy1,winsrc,bmpwdt,bmphgt);
// - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       dspnum = 2 ; lftedg= 670 ; topedg= 510 ; winwdt=350 ; winhgt=200 ;
       contrl = 100000 ; *odtitl= "12 Display CPP @" ;
       fnthnd =      0 ; *bmifil= "D2OpnDsp.ini@" ;
       dummy1 = 0  ; winsrc = 0 ; bmpwdt =  300 ; bmphgt = 150 ;
       error = DL1(OpnDsp,dspnum,lftedg,topedg,winwdt,winhgt,contrl,
                 *odtitl,&MYNULL,fnthnd,dummy1,winsrc,bmpwdt,bmphgt);
//-----------------------------------------------------------------------------
       dest  = 0;
       error = DL1(DrwLin,dest,20,20,220,135,100000,1);
//     printf("DrwLin: error = %10.8d %9.8x\n\r",error,error);
       error = DL1(DrwLin,dest,20,12,260,145,100000,2);
//     printf("DrwLin: error = %10.8d %9.8x\n\r",error,error);
       for(i=1;i<128;i++) error=DL1(DrwPxl,00,i*3+20,i*2+26,0,i) ;
       for(i=1;i<32;i++)  error=DL1(DrwLin,00,i*9+20,120,i*9+26,135,0,i);
       for(i=1;i<32;i++)  error=DL1(DrwFrm,00,i*9+20,140,i*9+26,155,0,i);
       for(i=1;i<32;i++)  error=DL1(DrwBlk,00,i*9+20,160,i*9+26,175,0,i);
       dest  = 0 ; x = 200 ; y = 100 ; contrl = 10000 ; apen = 11 ;
       fnthnd= 0 ; *txtstr = "Hallo CPP !@" ;
       error = DL1(DrwTxt,dest,x,y,contrl,apen,fnthnd,*txtstr);
//-----------------------------------------------------------------------------
       for(k = 1 ; k <= 350 ; k++){
        contrl = 100000 ; fnthnd = -2 ;
        error = DL1(GetMsg,&msgnum,&gmdest,&gmcmit,&mousex,&mousey,&contrl,
                  &igmval,&sgmval,&dgmval,egmval,gmstrg,&fnthnd,&dlbcbk);
        dest = 0 ;

        if(msgnum != -10)
          printf(" GetMsg: %4d %8.6d %9.8x %4d CB()= %5d %5d %5d %5d\n",
          k,msgnum,msgnum,gmcmit,
          dlbcbk[0],dlbcbk[1],dlbcbk[2],dlbcbk[3]);
        for(i=1 ; i <=1000000*50 ; i++);
        if(msgnum == 110104) break;

        error = DL1(DrwLin,dest,20,20,220,135,100000,1);
        error = DL1(DrwFrm,dest,20,12,260,145,100000,2);
        sprintf(*valstr,"GetMsg = %4d %12.6d @",k,msgnum);
        error = DL1(DrwTxt,dest,10,165,10000,k,0,*valstr);

        if(k % 2 == 0) error = DL1(DrwLin,dest,k,175,k,195,100000,k);
                  else error = DL1(DrwLin,dest,k,190,k,200,100000,k);

        if(msgnum == 10101){
          winnum = 1 ; *bmifil = "C1ClsWin.bmi#" ; contrl = 100001 ;
          error = DL1(ClsWin,winnum,*bmifil,contrl);
          printf(" ClsWin: error = %10.8d %9.8x\n\r",error,error);
          error = DL1(GetInp,0,10,00,12,1,&i,*gistrg,"OK ? (RETURN) = @");}
        else if(msgnum == 110101 || msgnum == 110111){
          dspnum = 1 ; *bmifil = "C1ClsDsp.bmi#" ; contrl = 100001 ;
          error = DL1(ClsDsp,dspnum,*bmifil,contrl) ;
          printf(" ClsWin: error = %10.8d %9.8x\n\r",error,error);
          error = DL1(GetInp,0,10,00,12,1,&i,*gistrg,"OK ? (RETURN) = @");}
        else if(msgnum == 120101 || msgnum == 120111){
          dspnum = 2 ; *bmifil = "C2ClsDsp.bmi#" ; contrl = 0001 ;
          error = DL1(ClsDsp,dspnum,*bmifil,contrl) ;
          printf(" ClsWin: error = %10.8d %9.8x\n\r",error,error);
          error = DL1(GetInp,0,10,00,17,1,&i,*gistrg,"OK ? (RETURN) = @");}

        if(msgnum == 110601) error = DL1(SetABM,12,1000);
        if(msgnum == 110602) error = DL1(SetABM,12,1001);
        if(msgnum == 110603) error = DL1(SetABM,12,1010);
        if(msgnum == 110604) error = DL1(SetABM,12,1011);
       }
//=============================================================================
```


D2: Hello OPNWIN 2 \41h\42h\43h; !@
File Edit View Set Mouse Draw M7 M8 M9
Edit mit mehreren Zeilen ist praktisch
En00-353: Edit
En00-354: Edit
En00-355: Edit
List
Combo
Combo Inpu
640
Slide
641
Fld
642
643
Info
-123.456
Fld
00011,00356,00677,00920
00572,00537
0561,0181
D2D2h,D2D2h,1E1Eh,FFFFh
SySetSta%


D2: Hello OPNWIN 2 \41h\42h\43h; !@
File Edit View Set Mouse Draw M7 M8 M9
En02-301: Show Para Child 1x
En00-302: Show User Child 2
En02-303: Show Draw Child 3x
En00-304: Swap Horizontal
En00-305: Swap Vertical
En00-306: Show TitleBar
En00-307: Show MenuBar
En00-308: Show StatusBar
En00-309: Show TaskBar
En00-310: RULers Manager
En00-311: FUN_31 Manager
En00-312: FUN_32 Manager
En00-313: FUN_33 Manager
En00-314: FUN_34 Manager
En00-315: FUN_35 Manager
En00-316: FUN_36 Manager
En00-317: FUN_37 Manager
En00-318: FUN_38 Manager
En00-319: FUN_39 Manager
En00-320: Zoom fit Bitmap
En00-321: Zoom fit Bitmap Width
En00-322: Zoom fit Bitmap Height
En00-323: Zoom 10 Percent
En00-324: Zoom 25 Percent
En00-325: Zoom 50 Percent
En00-326: Zoom 100 Percent
En00-327: Zoom 200 Percent
En00-328: Zoom 400 Percent
En00-329: Zoom 800 Percent
En00-330: User Menu 330
En00-331: User Menu 331
En00-332: User Menu 332
En00-333: User Menu 333
En00-334: User Menu 334
En00-335: User Menu 335
En00-336: User Menu 336
En00-337: User Menu 337
En00-338: User Menu 338
En00-339: User Menu 339
00000,00000,00998,00560
01023,00098
1023,0098
FFFFh,FFFFh,FFFFh,FFFFh
SySetSta%
Start
Norton Syste...
SpeedComm...
NC Links
Absoft Editor...
ED - EDIT
Title 0@

```
!#########################################################################################################################
!# Wolfgang  Renner            Creation Date = 18. Nov 2014                                                              #
!#                                                                                                                       #
!# Gimbacher Weg 34            Creation Time = 10:36:44:250                                                              #
!#                                                                                                                       #
!# D-65779 Kelkheim            Last  Changed = 18. Nov 2014                                                              #
!#                                                                                                                       #
!# Copyright  (C) 1993  2003   For Processor :                                                                           #
!#                      2013                                                                                             #
!# All Rights Reserved  2023   X86-32|64|128 ! Datas = "Dat@.....................................";                      #
!#########################################################################################################################
 R-STRG = " R-Axes String@.......................";                      ! COM
 S-STRG = " S-Axes String@.......................";                      ! COM
 T-STRG = " T-Axes String@........................................."   ! COM
          "..................................................";  ! COM
!#########################################################################################################################
 FLWRIT Name String                                                      ! COM
                                                                         ! COM
    =                                                                    ! COM
                                                                         ! COM
       "FLWRIT Data String @........................................."   ! COM
          "..................................................."   ! COM
          "..................................................."   ! COM
          "....................................";                      ! COM
                                                                         ! COM
!#-------------------------------------------------------------------------------------------------------------------------#
 VALU01 = "+1.111111E+11@.......................";                      ! COM
 VALU02 = "+2.222222E+11@.......................";                      ! COM
 VALU03 = "+3.333333E+11@                       ";                      ! COM
!#########################################################################################################################
 Ende = " X@....................................."                       ! COM
!#########################################################################################################################
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!# -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   #
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!= -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     =
!*
!#########################################################################################################################
!%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
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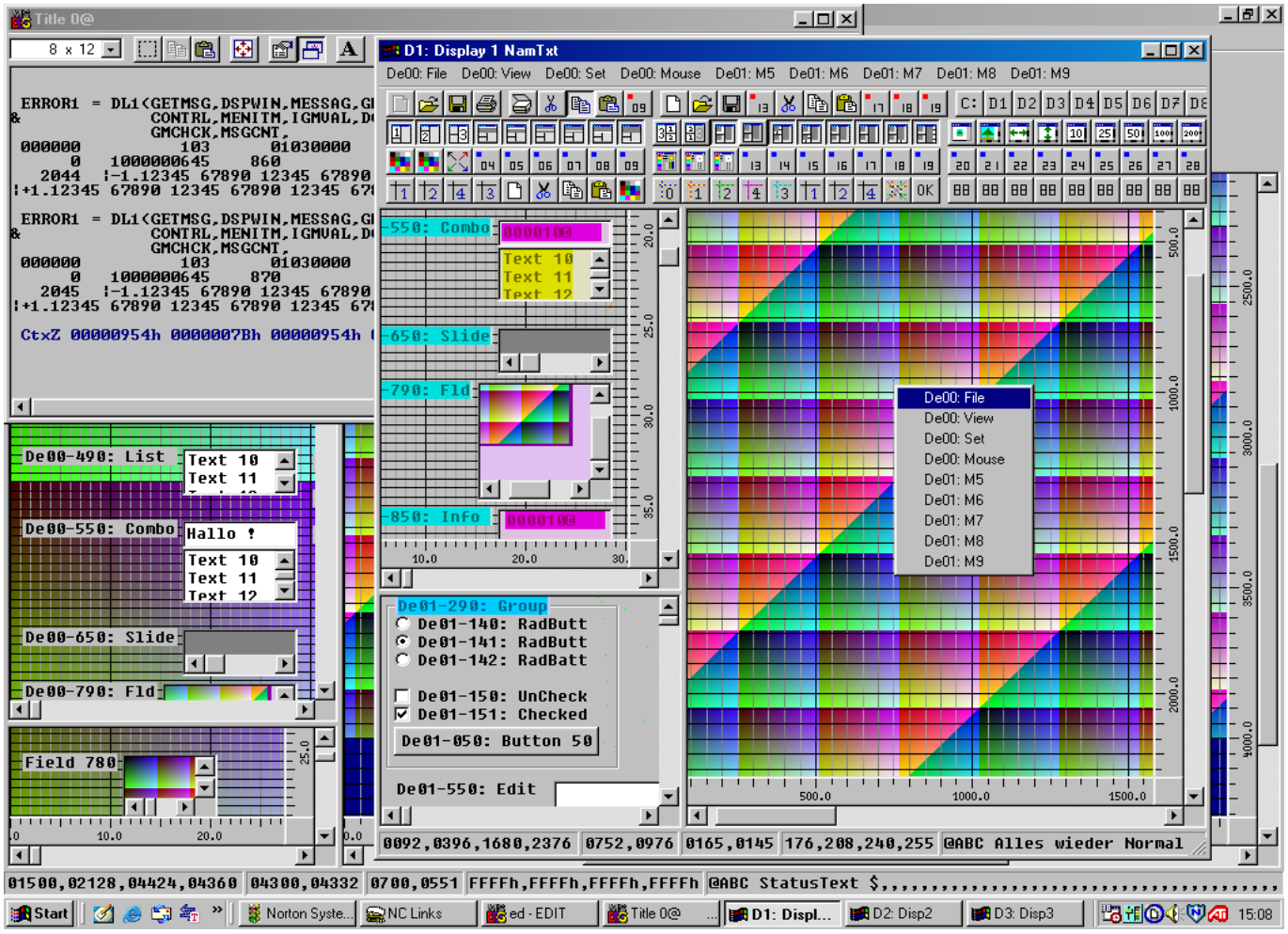
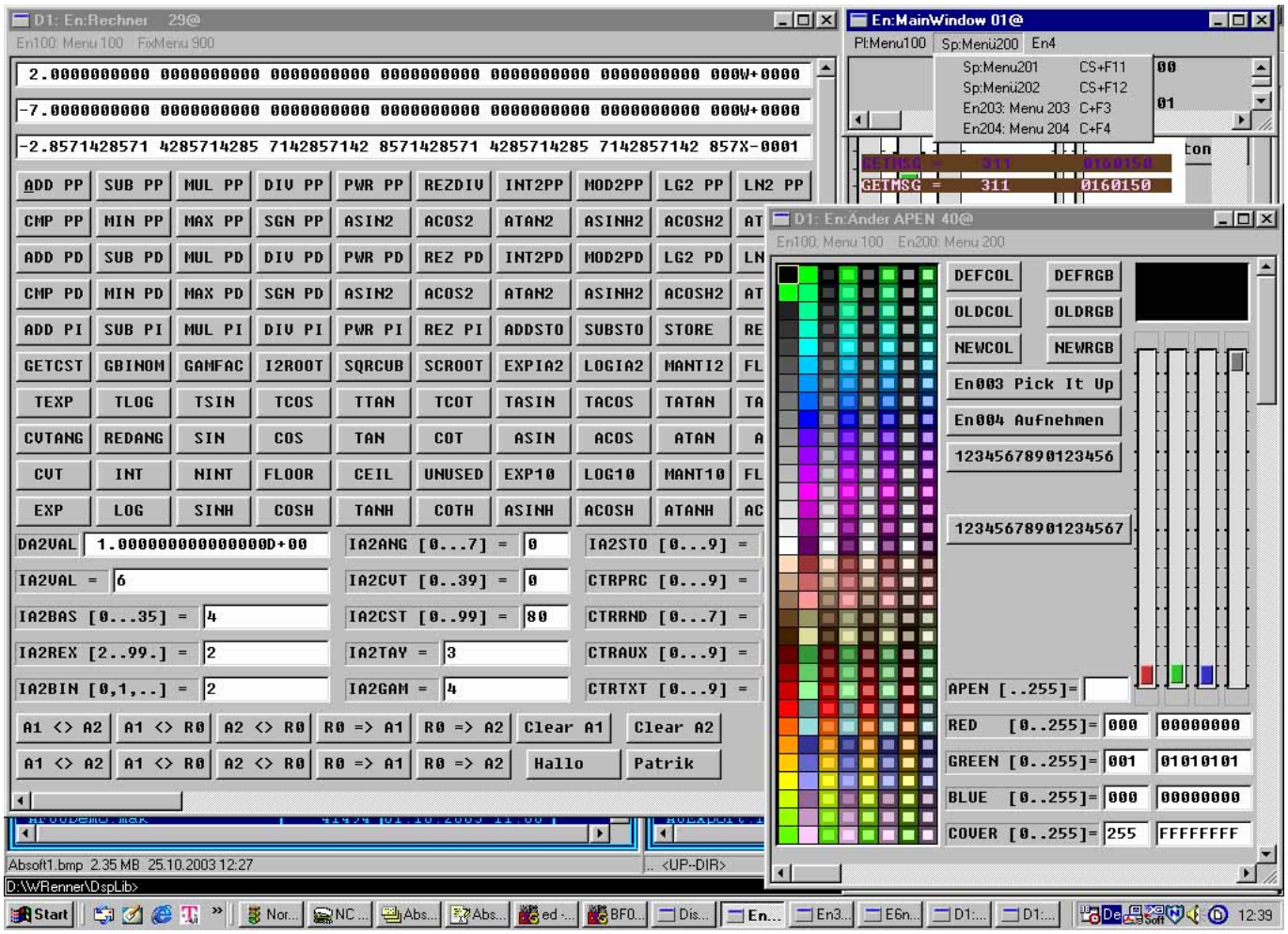

Title 0@
D1: Display 1 NamTxt
De00: File
De00: View
De00: Set
De00: Mouse
De01: M5
De01: M6
De01: M7
De01: M8
De01: M9
De00-490: List
Text 10
Text 11
De00-550: Combo
Hallo !
De00-650: Slide
De00-790: Fld
Field 780
-550: Combo
-650: Slide
-790: Fld
-850: Info
De01-290: Group
De01-140: RadButt
De01-141: RadButt
De01-142: RadBatt
De01-150: UnCheck
De01-151: Checked
De01-050: Button 50
De01-550: Edit
0092,0396,1680,2376
0752,0976
0165,0145
176,208,240,255
@ABC Alles wieder Normal
01500,02128,04424,04360
04300,04332
0700,0551
FFFFh,FFFFh,FFFFh,FFFFh
@ABC StatusText $
Start
Norton Syste...
NC Links
ed - EDIT
Title 0@
D1: Displ...
D2: Disp2
D3: Disp3
15:08


D1: En:Rechner 29@
En100: Menu 100
FixMenu 900
2.0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 000W+0000
-7.0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 000W+0000
-2.8571428571 4285714285 7142857142 8571428571 4285714285 7142857142 857X-0001
ADD PP
SUB PP
MUL PP
DIV PP
PWR PP
REZDIV
INT2PP
MOD2PP
LG2 PP
LN2 PP
CMP PP
MIN PP
MAX PP
SGN PP
ASIN2
ACOS2
ATAN2
ASINH2
ACOSH2
ADD PD
SUB PD
MUL PD
DIV PD
PWR PD
REZ PD
INT2PD
MOD2PD
LG2 PD
CMP PD
MIN PD
MAX PD
SGN PD
ASIN2
ACOS2
ATAN2
ASINH2
ACOSH2
ADD PI
SUB PI
MUL PI
DIV PI
PWR PI
REZ PI
ADDSTO
SUBSTO
STORE
GETCST
GBINOM
GAMFAC
I2ROOT
SQRCUB
SCROOT
EXPIA2
LOGIA2
MANTI2
TEXP
TLOG
TSIN
TCOS
TTAN
TCOT
TASIN
TACOS
TATAN
CVTANG
REDANG
SIN
COS
TAN
COT
ASIN
ACOS
ATAN
CVT
INT
NINT
FLOOR
CEIL
UNUSED
EXP10
LOG10
MANT10
EXP
LOG
SINH
COSH
TANH
COTH
ASINH
ACOSH
ATANH
DA2VAL
1.0000000000000000D+00
IA2ANG [0...7] =
IA2STO [0...9] =
IA2VAL =
IA2CVT [0..39] =
CTRPRC [0...9] =
IA2BAS [0...35] =
IA2CST [0..99] =
CTRRND [0...7] =
IA2REX [2..99.] =
IA2TAY =
CTRAUX [0...9] =
IA2BIN [0,1,..] =
IA2GAM =
CTRTXT [0...9] =
A1 <> A2
A1 <> R0
A2 <> R0
R0 => A1
R0 => A2
Clear A1
Clear A2
Hallo
Patrik
Absoft1.bmp 2.35 MB 25.10.2003 12:27
<UP-DIR>
D:\WRenner\DspLib>
En:MainWindow 01@
Pl:Menu100
Sp:Menü200
En4
Sp:Menü201 CS+F11
Sp:Menü202 CS+F12
En203: Menu 203 C+F3
En204: Menu 204 C+F4
GETMSG = 311 0160158
GETMSG = 311 0160150
D1: En:Änder APEN 40@
En100: Menu 100
En200: Menu 200
DEFCOL
DEFRGB
OLDCOL
OLDRGB
NEWCOL
NEWRGB
En003 Pick It Up
En004 Aufnehmen
1234567890123456
1234567890123456
APEN [..255]=
RED [0..255]= 000 00000000
GREEN [0..255]= 001 01010101
BLUE [0..255]= 000 00000000
COVER [0..255]= 255 FFFFFFFF
Start
12:39

```
#*****************************************************************************************************************************************
#*                                                                                                                                       *
#*=======================================================================================================================================*
#* Copyright (C)  1993   Wolfgang  Renner   Creation Date:  21. Oct 2012                                                                 *
#*            .                             Creation Time:  13:49:28.030                                                                 *
#*            &   2005   Gimbacher Weg 34                                                                                                *
#*            &   2015   D-65779 Kelkheim   Last  Changed:  23. Jul 2019                                                                 *
#*                                                                                                                                       *
#* All rights reserved   Germany / Hessen   From  DspLib 2                                                                               *
#*****************************************************************************************************************************************
#EWiMItXYZ,"12345678901234567890123456789012345678901234567890",-Left,-Topp,-Wdth,-Hght,'ACS-NPO@ ', # "12345678901234567890123456789012345678901234567890";
#*---------------------------------------------------------------------------------------------------------------------------------------
0300100000,"File@                                  ",-0000,-0000,-0000,-0000,'@        ', # "En00: File@                                  ";
#* - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
0300101000,"En00-101: Leave Message Loop@          ",00000,00000,00000,00000,'@        ', # "En00-120: Show Console 0@                ";
0300102000,"En00-102: Fast  Save ?@                ",00000,00000,00000,00000,'AC-S@    ', # "En00-121: Show Display 1@                 ";
0300103000,"En00-103: @                            ",00000,00000,00000,00000,'@        ', # "En00-122: Show Display 2@                 ";
0300104000,"En00-104: Clear ?  Display@            ",00000,00000,00000,00000,'@        ', # "En00-124: Show Display 4@                 ";
0300105000,"En00-105: Redraw   Display@            ",00000,00000,00000,00000,'@        ', # "En00-125: Show Display 5@                 ";
0300106000,"En00-106: Minimize Display@            ",00000,00000,00000,00000,'@        ', # "En00-126: Show Display 6@                 ";
0300107000,"En00-107: Restore  Display@            ",00000,00000,00000,00000,'@        ', # "En00-127: Show Display 7@                 ";
0300108000,"En00-108: Maximize Display@            ",00000,00000,00000,00000,'@        ', # "En00-128: Show Display 8@                 ";
0300109000,"En00-109: Close    Display@            ",00000,00000,00000,00000,'@        ', # "En00-129: Show Display 9@                 ";
#* - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
0300110004,"En00-110: @                            ",00000,00000,00000,00000,'@        ', # "En00-110: Menu 110                      ";
0300111000,"En00-111: OPNWIN Manager@              ",00000,00000,00000,00000,'@        ', # "En00-111: Fast Load  Picture@             ";
0300112000,"En00-112: OPNBMP Manager@              ",00000,00000,00000,00000,'@        ', # "En00-112: Fast Save  Picture@             ";
0300113000,"En00-113: LODPIC Load@                 ",00000,00000,00000,00000,'@        ', # "En00-113: Fast Print Picture@             ";
0300114000,"En00-114: LODPIC Insert@               ",00000,00000,00000,00000,'@        ', # "En00-114: Menu 124@                       ";
0300115000,"En00-115: SAVPIC Save@                 ",00000,00000,00000,00000,'CS-S@    ', # "En00-115: Menu 125@                       ";
0300116000,"En00-116: SAVPIC SaveAs@               ",00000,00000,00000,00000,'@        ', # "En00-117: IsChecked 127@                  ";
0300117000,"En00-117: SAVPIC SaveTo@               ",00000,00000,00000,00000,'@        ', # "En00-118: UnChecked 128@                  ";
0300118000,"En00-118: SCNPIC Scan  @               ",00000,00000,00000,00000,'@        ', # "En00-119: IsChecked 129@                  ";
0300119000,"En00-119: PRIPIC Print @               ",00000,00000,00000,00000,'CS-P@    ', # "En00-119: IsChecked 129@                  ";
#* - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
0300120004,"En00-120: Show Console 0@              ",00000,00000,00000,00000,'C-F10@   ', # "En00-120: Show Console 0@                  ";
0300121000,"En00-121: Show Display 1@              ",00000,00000,00000,00000,'C-F1@    ', # "En00-121: Show Display 1@                 ";
0300122000,"En00-122: Show Display 2@              ",00000,00000,00000,00000,'C-F2@    ', # "En00-122: Show Display 2@                 ";
0300123000,"En00-123: Show Display 3@              ",00000,00000,00000,00000,'C-F3@    ', # "En00-123: Show Display 3@                 ";
0300124000,"En00-124: Show Display 4@              ",00000,00000,00000,00000,'C-F4@    ', # "En00-124: Show Display 4@                 ";
0300125000,"En00-125: Show Display 5@              ",00000,00000,00000,00000,'C-F5@    ', # "En00-125: Show Display 5@                 ";
0300126000,"En00-126: Show Display 6@              ",00000,00000,00000,00000,'C-F6@    ', # "En00-126: Show Display 6@                 ";
0300127000,"En00-127: Show Display 7@              ",00000,00000,00000,00000,'C-F7@    ', # "En00-127: Show Display 7@                 ";
0300128000,"En00-128: Show Display 8@              ",00000,00000,00000,00000,'C-F8@    ', # "En00-128: Show Display 8@                 ";
0300129000,"En00-129: Show Display 9@              ",00000,00000,00000,00000,'C-F9@    ', # "En00-129: Show Display 9@                 ";
#*=======================================================================================================================================
0300000000,"En00-000: Butt F4@                     ",-0001,-0001,00000,00000,'F4@      ', # "En00-000: Butt F4@                        ";
0300030003,"En00-030: Butt F5@                     ",-0001,-0003,00000,00000,'F5@      ', # "En00-030: Butt F5@                        ";
0300031000,"En00-031: Butt 31@                     ",-0001,-0005,00000,00000,'A-NP2@   ', # "En00-031: Butt 31@                        ";
0300032000,"En00-032: Butt 32@                     ",-0001,-0007,00000,00000,'@        ', # "En00-032: Butt 32@                        ";
0300040003,"En00-040: Butt 40@                     ",-0029,-0002,00000,00000,'@        ', # "En00-040: Butt 40@                        ";
0300082003,"En00-082: Butt 82@                     ",-0029,-0003,00000,00000,'@        ', # "En00-082: Butt 82@                        ";
0300083000,"En00-083: Butt 83@                     ",-0029,-0004,00000,00000,'@        ', # "En00-083: Butt 83@                        ";
#*---------------------------------------------------------------------------------------------------------------------------------------
0300180011,"En00-180: Button F6@                   ",-0029,-0006,00000,00000,'F6@      ', # "En00-180: Button F6@                      ";
0300181010,"En00-181: Button F7@                   ",-0029,-0007,00000,00000,'F7@      ', # "En00-181: Button F7@                      ";
0300182010,"En00-182: Button182@                   ",-0029,-0008,00000,00000,'@        ', # "En00-182: Button182@                      ";
#*=======================================================================================================================================
0300290000,"En00-290: Group@                       ",00000,00000,-0024,-0010,'@        ', # "En00-290: Group@                          ";
#*=======================================================================================================================================
0300340000,"En00-340: Edit@                        ",-0030,-0009,-0010,-0002,'@        ', # "En00-340: Edit@                           ";
0300341000,"En00-341: Edit@                        ",-0030,-0011,-0010,-0002,'@        ', # "En00-341: Edit@                           ";
0300350110,"En00-350:@                             ",-0001,-0010,-0018,-0003,'@        ', # "En00-350: Edit @                          ";
0300351870,"En00-351:@                             ",-0001,-0013,-0018,-0005,'@        ', # "En00-350: Edit @                          ";
0300353000,"En00-353: Edit@                        ",-0030,-0015,-0012,-0002,'@        ', # "En00-351: Edit@                           ";
0300354000,"En00-354: Edit@                        ",-0030,-0017,-0012,-0002,'@        ', # "En00-352: Edit@                           ";
0300355000,"En00-355: Edit@                        ",-0030,-0019,-0012,-0002,'@        ', # "En00-353: Edit@                           ";
#* - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
0300360004,"En00-360: Edit@                        ",-0080,00000,-0012,-0002,'@        ', # "En00-360: Edit@                          ";
0300361000,"En00-361: Edit@                        ",-0080,-0002,-0012,-0002,'@        ', # "En00-361: Edit@                           ";
0300362000,"En00-362: Edit@                        ",-0080,-0004,-0012,-0002,'@        ', # "En00-362: Edit@                           ";
0300363000,"En00-363: Edit@                        ",-0080,-0006,-0012,-0002,'@        ', # "En00-363: Edit@                           ";
0300364000,"En00-364: Edit@                        ",-0080,-0008,-0012,-0002,'@        ', # "En00-364: Edit@                           ";
#*=======================================================================================================================================
0300480000,"En00-480: List @                       ",-0001,-0018,-0012,-0003,'@        ', # "En00-490: List @                          ";
#* - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
0300481003,"En00-481: List Box  xxx,xxx,single@    ",-0005,-0170,-0030,-0016,'@        ', # "En00-490: List @                          ";
0300482003,"En00-482: List Box  xxx,xxx,single@    ",-0045,-0170,-0030,-0016,'@        ', # "En00-491: List @                          ";
0300483673,"En00-483: List View chk,grd,single@    ",-0085,-0170,-0030,-0016,'@        ', # "En00-492: List @                          ";
#* - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
0300484103,"En00-484: List Box  xxx,xxx,multi@     ",-0005,-0190,-0030,-0016,'@        ', # "En00-491: List @                          ";
0300485103,"En00-485: List Box  xxx,xxx,multi@     ",-0045,-0190,-0030,-0016,'@        ', # "En00-491: List @                          ";
0300486773,"En00-486: List View chk,grd,multi@     ",-0085,-0190,-0030,-0016,'@        ', # "En00-492: List @                          ";
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0300550000,"En00-550: Combo@                       ",-0001,-0021,-0012,-0004,'@        ', # "En00-550: Combo@                          ";
#300551003,"En00-551: Combo@                       ",-0001,-0170,-0045,-0016,'@        ', # "En00-550: Combo@                          ";
#* - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
0300560007,"En00-560: SIMPLE 0@                    ",-0001,-0290,-0026,-0016,'@        ', # "En00-550: Combo@                          ";
0300561013,"En00-561: SIMPLE 1@                    ",-0030,-0290,-0026,-0016,'@        ', # "En00-550: Combo@                          ";
0300562023,"En00-562: DROPDOWN@                    ",-0060,-0290,-0026,-0016,'@        ', # "En00-550: Combo@                          ";
0300563033,"En00-563: DROPDOWNLIST@                ",-0090,-0290,-0026,-0016,'@        ', # "En00-550: Combo@                          ";
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0300740000,"SLD <004 740>@                         ",-0001,-0070,-0030,-0004,'@        ', # "SLD <004 740>@                            ";
0300741010,"SLD <010 741>@                         ",-0001,-0075,-0030,-0004,'@        ', # "SLD <010 741>@                            ";
0300742020,"SLD <020 742>@                         ",-0001,-0080,-0030,-0004,'@        ', # "SLD <020 742>@                            ";
#*=======================================================================================================================================
0300790000,"En00-790: Fld@                         ",-0001,-0028,-0014,-0007,'@        ', # "En00-790: Fld@                            ";
0300791000,"En00-791: Fld@                         ",-0001,-0038,-0036,-0020,'@        ', # "En00-791: Fld@                            ";
#*=======================================================================================================================================
0300850000,"En00-850: Info @                       ",-0001,-0035,-0012,-0003,'@        ', # "En00-850: Info @                          ";
#*=======================================================================================================================================
0300940000,"En00-940: Status Text in Deutsch@      ",00000,00000,00000,00000,'@        ', # "En00-950: Status Text in Deutsch@         ";
0300941100,"En00-941: Status Text in Deutsch@      ",00000,00000,00000,00000,'@        ', # "En00-951: Status Text in Deutsch@         ";
0300942200,"En00-942: Status Text in Deutsch@      ",00000,00000,00000,00000,'@        ', # "En00-952: Status Text in Deutsch@         ";
#########################################################################################################################################
#301700000,"M7@                                    ",-0000,-0000,-0000,-0000,'@        ', # "En01: M7@                                 ";
#* - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
#301701000,"En01-701: SETMEN@                      ",-0000,-0000,-0000,-0000,'@        ', # "En01-701: SETMEN@                        ";
#301702000,"En01-702: GETMEN@                      ",-0000,-0000,-0000,-0000,'@        ', # "En01-702: GETMEN@                        ";
#301703000,"En01-703: SETBUT@                      ",-0000,-0000,-0000,-0000,'@        ', # "En01-703: SETBUT@                        ";
#* - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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