

CDL Z80 MACRO III Assembler C12012- 414X

87/12/07 22:16:57

DateStamper Call from TurboPascal

-1

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2          .xlink
3
4          .phex
5          .pabs
6
7          .remark "
8 Code for inclusion inline in TurboPascal function
9 Prefix with /$2A/array where array is six byte
10 array for return of BCD result.
11
12 note that the .LADDR pseudo op causes bytes of
13 words to be listed in memory order
14         "
15
16
17
000C      18  getver  =      12      ;CP/M function call
0005      19  BDOS   =      0005H
20
21
22
0100      23          .loc    100H
0100      24  mainpatch:
25
26  ;first test for presence of DateStamper -- method is
27  ;to use function 12 and test full returned value
28  ;
29  ;
30  ;Turbo Pascal has loaded HL with pointer to array for
31  ;saving result
32
0100  E5      33      push    h          ;save pointer to buffer
0101  0E0C    34      mvi    c,getversion
0103  1E00    35      mvi    e,0
0105  CD0500  36      call   BDOS          ;normal test for 2.2
0108  7D      37      mov    a,l
0109  FE22    38      cpi    22H
010B  2034    39      jrnz   exit1          ;DateStamper only runs
010D  7C      40      mov    a,h
010E  B7      41      ora    a
010F  2030    42      jrnz   exit1          ;not on MPM
0111  1E44    43      mvi    e,'D'          ;handshake character
0113  0E0C    44      mvi    c,getversion
0115  CD0500  45      call   BDOS
0118  7C      46      mov    a,h
0119  FE44    47      cpi    'D'          ;test for DS
011B  2024    48      jrnz   exit1
49
50  ;
51  ;if we get to here then DE now points to standard clock
52  ;
0006      53  offset  =      clock - .
```

```
011D ED532301 54          sded    . + offset    ;in line patch
0121 E1        55          pop     h          ;get pointer to buffer
0123          56  clock   equ     $+1
```

```

0122  CD0000      57          call    0
                                58
0125  5D          59          mov     e,l           ;get copy of final poin
0126  54          60          mov     d,h
0127  1B          61          dcx    d
0128  1B          62          dcx    d           ;point to hours byte
0129  1A          63          ldax   d           ;get it
                                64
012A  11FBFF     65          lxi    d,-5         ;get HL pointing to sta
012D  EB          66          xchg
012E  19          67          dad    d           ;DE to tail
                                68
012F  07          69          rlc
                                69          ;test for relative cloc
0130  E5          70          push   h           ;save pointer for null
0131  380E        71          jrc    exit1
0133  E1          72          pop    h
                                73          ;*****
                                74          ; for TBBS only
                                75          ;now reverse order of array
0134  0603        76          mvi    b,3
0136                                77          ..loop:
0136  4E          78          mov    c,m         ;get front number
0137  1A          79          ldax   d         ;get tail number
0138  77          80          mov    m,a         ;swap
0139  79          81          mov    a,c
013A  12          82          stax   d
013B  23          83          inc    h
013C  1B          84          dcx    d
013D  10F7        85          djnz   ..loop
                                86          ;*****
                                87
013F  1808        88          jmp    exit2
                                89
                                90          ;fill array with zeros if DS not present
0141  E1          91          exit1: pop    h
0142  0606        92          mvi    b,6
0144  AF          93          xra    a
0145  77          94          ..loop: mov   m,a
0146  23          95          inc    h
0147  10FC        96          djnz   ..loop
                                97
0149                                98          exit2:
                                99
                                100
                                101          .end

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-3 +++++ Symbol Table +++++

BDOS	0005	CLOCK	0123	EXIT1	0141	EXIT2	0149
MAINPA	0100	OFFSET	0006				

