

lcd\_draft.asm.txt

```

init    org      $8000
        lea      tps,a3
        movea.l #$18000,a0
        movea.l #$20000,a1
        movea.l #$10000,a5      ;ADDED!!!
        move.b #4,d2
init2   move.b #30,d0
        bsr      delay
        subq.b #1,d2
        bne      init2
        move.b #$01, d0
        bsr      delay
        bsr      delay2
        move.b #$0E,d0
        bsr      delay
        move.b #$0C,d0
        bsr      delay
        bra      read1 ;
delay2  move.w #$FFFF,d1
        move.w #$FFFF,d2
delay3  subq.w #1,d2
        bne      delay3
delay4  subq.w #1,d2
        bne      delay4
        rts
;*****updated Monday November 22,2004
;*****
read1   move.b $18000,d7
        move.b d7,d0 ;sdfa
        addi.b #1,d0
        move.b d0,$28000
        movea.l #$18002,a0
        movea.l #$8200,a6
        mulu.w #$4,d7
        adda.l d7,a6
        jmp      (a6)
tps    movea.l #tpsd,a3
        move.b #8,d3
        move.b #$84,d2
        bsr      loop
        clr.b  d3
        movea.l #$18002,a0
rtps   move.b (a1),d7
;equations
;
;
move.b d7,(a5)          ;ADDED!!!!!
bsr      read
bra      rtps
map    movea.l #mapd,a3
        move.b #15,d3
        move.b #$84,d2
        bsr      loop
        clr.b  d3
        movea.l #$18002,a0
rmap   move.b (a1),d7
;equations
;
;
move.b d7,(a5)          ;ADDED!!!!!
bsr      read
bra      rmap
temp1  movea.l #temp1d,a3

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move.b #19,d3
move.b #$8e,d2
bsr loop
clr.b d3
movea.l #$18002,a0
rtemp1 move.b (a1),d7
;equations
;
;
move.b d7,(a5) ;ADDED!!!!!
bsr read
bra rtemp1
temp2 movea.l #temp2d,a3
move.b #18,d3
move.b #$8d,d2
bsr loop
clr.b d3
movea.l #$18002,a0
rtemp2 move.b (a1),d7
;equations
;
;
move.b d7,(a5) ;ADDED!!!!!
bsr read
bra rtemp2
o2 movea.l #o2d,a3
move.b #17,d3
move.b #$8e,d2
bsr loop
clr.b d3
movea.l #$18002,a0
ro2 move.b (a1),d7
;equations
;
;
move.b d7,(a5) ;ADDED!!!!!
bsr read
bra ro2
iat movea.l #iatd,a3
move.b #20,d3
move.b #$8f,d2
bsr loop
clr.b d3
riat movea.l #$18002,a0
move.b (a1),d7
;equations
;
;
move.b d7,(a5) ;ADDED!!!!!
bsr read
bra riat
null movea.l #nulld,a3
move.b #4,d3
move.b #$84,d2
bsr loop
clr.b d3
rnull movea.l #$18002,a0
move.b (a1),d7
;equations
;
;
move.b d7,(a5) ;ADDED!!!!!
bsr read

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rand    bra      rnull
        movea.l #randd,a3
        move.b  #7,d3
        move.b  #$85,d2
        bsr     loop
        clr.b   d3
        movea.l #$18002,a0
        move.b  (a1),d7
;equations
;
;
move.b  d7,(a5)           ;ADDED!!!!!
bsr     read
bra     rrand

loop   move.b  (a3)+,d0
        bsr     delay1
        subq.b #1,d3
        bne     loop
        bsr     reset
        rts

read   cmp.b   #99,d7
        b1s    showdec
        move.b  #1,d3

showdec move.w  d7,d6
        move.w  #100,d5
        bsr    dodigit
        move.w  #10,d5
        bsr    dodigit
        move.b  d6,d1
        addi.b #30,d1
        move.b  d1,d0
        bsr     delay

reset  movea.l #$18000,a0
        move.b  d2,d0
        bsr     delay
        rts

dodigit andi.l #$ffff,d6
        divu   d5,d6
        move.b  d6,d1
        addi.b #30,d1
        cmp.b   #1,d3
        beq    do
        cmp.b   #30,d1
        bne    do
        move.b  #80,d0
        bsr     delay
        bra     do2

do     move.b  d1,d0
        bsr     delay

do2    swap    d6
        rts

delay  move.b  #6,d1
delay1 move.b  d0,(a0)
        subq.b #1,d1
        bne    delay1
        rts

delay1 move.b  #13,d1
        move.b  d0,(a0)
delay12 subq.b #1,d1
        bne    delay12
        rts

org    $8200

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```
bra    tps
bra    map
bra    temp1
bra    temp2
bra    o2
bra    iat
bra    null
bra    rand
trap   #9
org    $8250
tpsd   dc.b  'TPS=',$80,$80,$80,$df
mapd   dc.b  'MAP=',$80,$80,$80,' in. Hg.'
temp1d dc.b  'Cyl.Head Temp=',$80,$80,$80,$df,'F'
temp2d dc.b  'Coolant Temp=',$80,$80,$80,$df,'F'
o2d    dc.b  'Oxygen Sensor=',$80,$80,$80
iatd   dc.b  'Intake AirTemp=',$80,$80,$80,$df,'F'
nulld  dc.b  'N','U','L','L'
randd  dc.b  'rand=',$80,$80,$80
end    init
```