```
SERIES-III 8086/8087/8088 MACRO ASSEMBLER V1.1 ASSEMBLY OF MODULE BOOTENTRY
OBJECT MODULE PLACED IN :F1:SBOOT.OBJ
ASSEMBLER INVOKED BY:  ASM86.86 :F1:SBOOT.A86 XREF PRINT(:F5:SBOOT.LST)

LOC  OBJ                  LINE     SOURCE

                                                     NAME      BOOTENTRY
                                   ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
                                   ;
                                   ;        TITLE:          bootentry
                                   ;
                                   ;                                Boot Loader Entry
                                   ;
                                   ;        DATE:           3-8-82
                                   ;
                                   ;        ABSTRACT:       Inital entry point for the iTPS System Bootstrap
                                   ;                                Loader. Bootentry is passed a pointer to the boot
                                   ;                                device name in the boot table of the first stage
                                   ;                                bootstrap loader. Bootentry calls the device init
                                   ;                                procedure to get the granularity of the boot device
                                   ;                                and pass it along with the address of the device
                                   ;                                read procedure to the iTPS System Bootstrap Loader
                                   ;
                                   ;        LANGUAGE DEPENDENCIES: Compatible with PLM86 COMPACT for SYSBOOT
                                   ;                                and LARGE for driver.
                                   ;
                              +1   $include(:f1:bprop.asm)
                        =1         ;/*
                        =1         ; *      INTEL CORPORATION PROPRIETARY INFORMATION.  THIS LISTING IS
                        =1         ; *      SUPPLIED UNDER THE TERMS OF A LICENSE AGREEMENT WITH INTEL
                        =1         ; *      CORPORATION AND MAY NOT BE COPIED NOR DISCLOSED EXCEPT IN
                        =1         ; *      ACCORDANCE WITH THE TERMS OF THAT AGREEMENT.
                        =1         ; */
                                   ;
                                   ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
                                   ;
  0400                             STACKSIZE       EQU          400H
                                   ;
                                   DGROUP          GROUP        DATA
                                   CGROUP          GROUP        CODE
                                   ASSUME          CS:CGROUP, DS:DGROUP
                                   ;
----                               STACK           SEGMENT      STACK   'STACK'
0000 (1024                                         DB           STACKSIZE DUP(?)
     ??
     )
----                               STACK           ENDS
                                   ;
----                               DATA            SEGMENT      PUBLIC  'DATA'
                                   ;
----                               DATA            ENDS
                                   ;
----                               CODE            SEGMENT      PUBLIC  'CODE'
                                   ;
                                                   EXTRN        SYSBOOT:  NEAR
                                   ;
```

```
LOC  OBJ                  LINE     SOURCE

0000                        49     BOOTENTRY     PROC        NEAR
                            50                   PUBLIC      BOOTENTRY
                            51
0000 FA                     52                   CLI
0001 2E8E1E3500      R      53                   MOV         DS, CS:DSREG  ;SETUP DS AND SS
0006 2E8E163700      R      54                   MOV         SS, CS:SSREG
000B BC0004                 55                   MOV         SP, STACKSIZE
                            56     ;
                            57     ;  ES:BX CONTAINS POINTER TO DEVICE INFORNATION TABLE
                            58     ;
                            59     ;  CALL DEVICE INIT PROCEDURE TO GET DEVICE GRANULARITY
                            60     ;
000E 8BC3                   61                   MOV         AX,BX
0010 33C9                   62                   XOR         CX,CX
0012 268A0F                 63                   MOV         CL, BYTE PTR ES:[BX]
0015 03C1                   64                   ADD         AX, CX
0017 40                     65                   INC         AX
0018 8BD8                   66                   MOV         BX,AX     ;POINTER TO UNIT NUMBER IN DEVICE TABLE
                            67     ;
001A 268B07                 68                   MOV         AX, WORD PTR ES:[BX]  ;GET UNIT NUMBER
001D 50                     69                   PUSH        AX                    ;SAVE A COPY OF UNIT NUMBER
001E 06                     70                   PUSH        ES        ;SAVE POINTER TO UNIT NUMBER
001F 53                     71                   PUSH        BX
0020 50                     72                   PUSH        AX
0021 26FF5F02               73                   CALL        DWORD PTR ES:[BX+2]  ;CALL DEVICE INIT ROUTINE
                            74     ;
                            75     ;  GRANULARITY IN AX
                            76     ;  UNIT NUMBER STILL ON STACK
                            77     ;
0025 5B                     78                   POP         BX
0026 07                     79                   POP         ES
0027 50                     80                   PUSH        AX  ;GRANULARITY
0028 268B4708               81                   MOV         AX, WORD PTR ES:[BX+8]
002C 50                     82                   PUSH        AX             ;BASE OF POINTER
002D 268B4706               83                   MOV         AX, WORD PTR ES:[BX+6]
0031 50                     84                   PUSH        AX             ;OFFSET OF POINTER
                            85     ;
                            86     ;
                            87     ;  GO TO REST OF SYSTEM BOOT CODE
                            88     ;
0032 E80000          E      89                   CALL        SYSBOOT
                            90     ;
0035 ----            R      91     DSREG         DW          DGROUP
0037 ----            R      92     SSREG         DW          STACK
                            93     ;
                            94     ;
                            95     BOOTENTRY     ENDP
                            96     ;
                            97     ;
----                        98     CODE          ENDS
                            99                   END         BOOTENTRY
```

XREF SYMBOL TABLE LISTING

```
NAME        TYPE      VALUE   ATTRIBUTES, XREFS

??SEG . .   SEGMENT           SIZE=0000H PARA PUBLIC
BOOTENTRY   L NEAR    0000H   CODE PUBLIC  49# 50 95 99 99
CGROUP. .   GROUP             CODE   34# 35
CODE. . .   SEGMENT           SIZE=0039H PARA PUBLIC 'CODE'  34# 45 98
DATA. . .   SEGMENT           SIZE=0000H PARA PUBLIC 'DATA'  33# 41 43
DGROUP. .   GROUP             DATA   33# 35 91
DSREG . .   V WORD    0035H   CODE  53 91#
SSREG . .   V WORD    0037H   CODE  54 92#
STACK . .   SEGMENT           SIZE=0400H PARA STACK 'STACK'
STACKSIZE   NUMBER    0400H     31# 38 55
SYSBOOT .   L NEAR    0000H   EXTRN  47# 89
```

END OF SYMBOL TABLE LISTING

ASSEMBLY COMPLETE, NO ERRORS FOUND