```
1
 2
3
                    SSStatus - An AppleWorks Init
 4
 5
            - Adds Real Time File Status Indicator to
 6
               Spreadsheet REVIEW/ADD/CHANGE Window -
7
8
        - 'New' or 'Changed' File Indicated by Mousetext
9
            Diamond Character in place of colon after
10
                  'File' in top line of Display.
11
12
              Version 2.3 (for AppleWorks Version 5.1)
13
                        (c) 2015 Hugh Hood
14
15
        - Seg $1E is patch-in segment, but NEW code requires
           space at end of Seg $1D (Main), because placing
16
17
           code at either $BB00 (default) or at most other
18
           locations results in it being overwritten by
           newly-loaded Segments. By moving the new code
19
           to the Main SS Segment patch, we ensure that it
20
           is always present whenever SpreadSheet is the
21
22
           active application, since Seg $1D must be loaded.
23
24
25
26
                  TR
                                  ADR
                                                 ; truncate bank address
27
28
                  XC
                                                 ; enable 65C02 code
29
30
   * Equates *
31
32 MTDiamond
                                                 ; mousetext 'diamond' character
                  EOU
                                  $DB
                                                   current file status flag byte:
33
  DTFStatus
                  EQU
                                  $C6C
                                                    ($01/0001) or $03/0011) - new
34
35
                                                    ($02/0010) or $06/0110) - changed
36
                                                    ($04/0100) - saved
37
                                                    ($00/0000) - unchanged
38 LJCellID
                  EQU
                                  $802C
                                                   used by SS to contain CellID (e.g. 'A1')
39 AWVersion
                  EQU
                                  $1003
                                                  ;$33/51 = 5.1 / $28/40 = 4.0 /
40
                                                   1E/30 = 3.0
41 MvLeftRtn
                  EOU
                                  $1148
                                                   memory move / follow with TO/FROM/LENGTH
42 StrWrRtn
                  EQU
                                  $116F
                                                   writes a string at a fixed location
43
                                                    on the screen
44
                                                    (follow JSR with col/row/string address)
45 imSavePatch
                  EQU
                                  $3006
                                                   Patch Manager save routine in SEG.IM
                                                   load address for Init files
46 InitAdr
                  EOU
                                  $4000
47
  PatchPoint
                  EOU
                                                   patch point in SEG $1E
                                  $3D5E
  Patch2Run
                  EQU
                                                   final destination for new code
48
                                  $7ED0
49
                                                   NOTE: Seg $1E runs from $3900 - $4EFE,
50
                                                           but seems to use memory up through
                                                           $51FF - Other SpreadSheet Segs
51
52
                                                          load at $5300, $7400 and $2100
53
                                                           - not even $5200 is free for long -
54
                                                           - Seg $1D runs from $7400-$7EC3
55
                                                           - SS work area starts $7F00
                                                   load address for patch code
56 PatchAdr
                  EQU
                                  $BB00
```

```
57
                                             (NOTE: uses ProDOS I/O buffer -
                                                   1K max length -
 58
                                                     $BB00 - $BEFF)
 59
 60
 61
               ORG
                             InitAdr ; ($4000)
 62
 63
                 TYP
                              $06
                                          ; create binary file
 64
 65
 66
            Init Header
 67
 68 START
 69
                JMP
                     IStart ; skip over header
 70
 71
 72
                ASC
DB
                              73
                             'mb'
 74
                ; e.g. - $0A/1.0 $0B/1.1 $17/2.3

STR 'SSStatus'; Init Screen Name
HEX 0000; Header End Bytes
 75
 76
 77
 78
 79
 80
 81 | IStart
 82
                              AWVersion ; AppleWorks version #
 83
              LDA
                              #$33 ; Is it Version 5.1?
Done ; disregard - wrong version
 84
               CMP
 85
               BNE
 86
87 PatchH1E JSR
                              imSavePatch ; call patch manager
Code1 ; beginning of patch1 code ($40xx)
 88
               DW
                              Patch1End-PatchAdr
 89
                DW
   ; length of patch code
 90
              DW
                              $001E ; SEG number to patch
 91
                                           ; ($1E = ASP Edit SEG)
 92
 93
94 PatchH1D JSR imSavePatch ; call patch manager 
95 DW Code1+Patch1End-PatchAdr
   ; beginning of patch2 code ($40xx)
 96
                DW
                           MoveStart-PatchAdr+Patch2End-Patch2Run
   ; length of patch code
                              $001D ; SEG number to patch
 97
98
                                           ; (\$1D = ASP Main SEG)
99
100 Done RTS
                                           ; back to Init Manager
101
102
103
104 Code1 EQU
                                           ; (will be $40xx)
105
106
          ORG
                              PatchAdr ; (Patching Code is moved and run
                                           ; @ $BB00 by Init Manager)
107
108
109 HookBytes HEX
                              0000 ; first bytes for $1E Patch
```

```
110
                              #$4C
                                           ; JMP instruction
                 LDA
111
                 STA
                              PatchPoint
                                           ; $3D5E in SEG $1E
                              #Patch2Run
112
                 LDA
                                           ; low byte of new code
113
                 STA
                              PatchPoint+1
114
                              #>Patch2Run ; high byte of new code
                 LDA
                              PatchPoint+2
115
                 STA
116
117
                 RTS
118
119 Patch1End
                EOU
120
121 || **----
122
123
                 ORG
                              PatchAdr
                                           ; (Patching Code is moved and run
124
                                            ; @ $BB00 by Init Manager)
125
                              HEX
126 MoveCall
127
                 JSR
                                           ; ($7ED0)
128
                              #Patch2Run
                 DA
129
                 DA
                              #MoveStart
130
                              Patch2End-Patch2Run
                 DA
131
132
                 RTS
                                           ; patch hook-in done
133
134
135
                EQU
136 MoveStart
                                           ; (will be $BBxx)
137
138
                 ORG
                              Patch2Run ; ($7ED0)
139
                              #':'
140 PatchStart
                LDA
                                           ; unchanged 'File' suffix
141
                 STA
                              StatusStr+1
                                           ; current file status flag byte
142
                 LDA
                              DTFStatus
                                            ; test if either Bit 0 or Bit 1 is set
                              #%00000011
143
                 AND
                                            ; to check for unchanged or saved
144
                                           ; if both bits are clear, branch around
145
                 BEQ
                              :A
                                            ; mousetext 'diamond' suffix
146
                 LDA
                              #MTDiamond
147
                 STA
                              StatusStr+1
148 : A
                 JSR
                              StrWrRtn
                                           ; column $04/04
                              $04
149
                 DB
                                           ; row $00/00
150
                 DB
                              $00
151
                 DA
                              StatusStr
                                           ; either colon or MTDiamond character
                              StrWrRtn
                                           ; originally from $3D5E-3D60
152
                 JSR
                                            ; column $00/00 {was $3D61}
153
                 DB
                              $00
                                           ; row $15/21 {was $3D62}
154
                              $15
                 DB
                                           ; used by SS to contain CellID (e.g. 'A1')
155
                 DA
                              LJCellID
                                            ; {was $3D63-3D64}
156
157
                              PatchPoint+7; go back to original code
158
                 JMP
159
160
161
162 | StatusStr Str
                         1:1
                                           ; default 'File' suffix
163
   **_____
164
165
```

167	Patch2End	EQU SAV	* I.SSSTATUS	;
168		LST	OFF	
169				
170		END		
171				