

```

1 ****
2 *
3 *          WPUnixLoad20 - An AppleWorks Init
4 *
5 *          - When loading Text Files with UNIX-style
6 *            line enders (LF only), this Init
7 *            properly translates the LF characters
8 *            into line enders used by the AppleWorks
9 *            word processor. It also sets the 'UNIX'
10 *           flag so that subsequent saves of the
11 *           will use the LF character as the line
12 *           ender (provided the 'WPSaveMore' init
13 *           is also installed and active).
14 *
15 *
16 *          Version 2.0 (for AppleWorks Version 5.1)
17 *          (c) 2017 Hugh Hood
18 *
19 *          - Seg $28 (Load Files) is patch-in segment.
20 *
21 ****
22
23     TR          ADR          ; truncate bank address
24
25     XC          ; enable 65C02 code
26
27 * Equates *
28
29 AWVersion    EQU      $1003      ; $33/51 = 5.1 / $28/40 = 4.0  /
30                   ; $1E/30 = 3.0
31 MvLeftRtn    EQU      $1148      ; memory move / follow with TO/FROM/LENGTH
32 StrMvRtn     EQU      $116C      ; string move / follow with TO/FROM
33 imSavePatch  EQU      $3006      ; Patch Manager save routine in SEG.IM
34 InitAdr      EQU      $4000      ; load address for Init files
35 PatchPoint1  EQU      $6495      ; first patch point in SEG $28
36 CRHandler    EQU      $6533      ; <CR> handler/storage routine on load
37 MMInDoc      EQU      $7C68      ; AWP file flag byte:
38                   ; bit 0 (%00000001)/$01 = Mail Merge (AWP)
39                   ; bit 2/5 (%00100100)/$24 = Merlin Source
40                   ; bit 3/5 (%00101000)/$28 = Unix TEXT
41                   ; bit 4/5 (%00110000)/$30 = MS-DOS TEXT
42                   ; bit 5 (%00100000)/$20 = TEXT
43 Patch2Run    EQU      $6D90      ; final destination for new code
44                   ; NOTE: Seg $28 runs from $5200 - $65F6,
45                   ;       and uses some space following
46                   ;       $6600.
47 ****
48 * IMPORTANT NOTE: File Tags are normally loaded (one-by-one) from the file into the
49 * unused space from $6600-$6dff prior to being saved to Desktop
50 * Memory with a pointer stored in the Tag Table. This space will
51 * support a maximum Tag size of $800/2048 bytes. This init will
52 * reduce the maximum possible Tag size to $700/1792 bytes.
53 * Fortunately, all (3) of the officially-registered AppleWorks file
54 * Tags are well below this limit:
55 *          Word Processor Mail Merge filename Tag ($4D/M) - $13/19 bytes
56 *          Word Processor Outliner styles Tag ($4F/0) - $25/37 bytes

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57 * TimeOut Graph selections Tag ($04) - $1FC/252 bytes
58 * If you were to write 'custom' AppleWorks modules, inits, or
59 * macros, and were to use file Tags, you need to keep the length
60 * of those Tags to a maximum of $700/1792 bytes.
61 ****
62
63 PatchAdr EQU $BB00 ; load address for patch code
64 ; (NOTE: uses ProDOS I/O buffer -
65 ; 1K max length -
66 ; $BB00 - $BEFF)
67 ;
68 ORG InitAdr ; ($4000)
69 TYP $06 ; create binary file
70
71 ****
72 * Init Header *
73 ****
74 START
75 JMP IStart ; skip over header
76
77 **-----
78
79 ASC 'mb' ; Init ID Bytes (AW 5.1)
80 DB $14 ; Init Version - programmer assigned
81 ; e.g. - $0A/1.0 $0B/1.1 $19/2.5
82 STR 'WPUnixLoad20' ; Init Screen Name
83 HEX 0000 ; Header End Bytes
84
85 **-----
86
87 IStart
88
89 LDA AWVersion ; AppleWorks version #
90 CMP #$33 ; Is it Version 5.1?
91 BNE Done ; disregard - wrong version
92
93 PatchH28 JSR imSavePatch ; call patch manager
94 DW Code1 ; beginning of patch1 code ($40xx)
95 DW Patch1End-PatchAdr+Patch2End-Patch2Run
... ; length of patch code
96
97
98 DW $0028 ; SEG number to patch
99 ; ($28 = Load Files SEG)
100
101 Done RTS ; back to Init Manager
102
103 **-----
104
105 Code1 EQU * ; (will be $40xx)
106
107 ORG PatchAdr ; (Patching Code is moved and run
108 ; @ $BB00 by Init Manager)
109
110 HookBytes HEX 0000 ; first bytes for $28 Patch
111

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112      LDA      #$4C      ; JMP instruction
113      STA      PatchPoint1    ; $6495 in SEG $28
114      LDA      #Patch2Run   ; low byte of new code
115      STA      PatchPoint1+1
116      LDA      #>Patch2Run  ; high byte of new code
117      STA      PatchPoint1+2
118
119
120 MoveCall   JSR      MvLeftRtn   ; move new code to run location
121          DA       Patch2Run    ; ($6D90)
122          DA       MoveStart    ;
123          DA       Patch2End-Patch2Run
124
125          RTS      ; patch hook-in done
126
127 Patch1End  EQU      *
128
129
130 **-----
131
132 MoveStart  EQU      *           ; (will be $BBxx)
133
134          ORG      Patch2Run   ; ($6D90)
135
136
137 * Check Text file for <LF> ONLY line endings
138
139 PatchStart BNE      SetUnix    ; has <LF> but no preceding <CR>
140
141 SetDOS     LDA      #%%00110000 ; #$30 (keep TXT/#$20 Bit)
142          JMP      PatchPoint1+4 ; go back to original code ($6499)
143
144 SetUnix    LDA      #%%00101000 ; #$28 (keep TXT/#$20 Bit)
145          STA      MMInDoc
146          JMP      CRHandler ; register <CR> and read next line
147
148
149 **-----
150
151
152 Patch2End  EQU      *           ;
153          SAV      I.WPUNIXLOAD20
154          LST      OFF
155
156          END
157
158

```