

```

1 *****
2 *
3 *           CalendarMY - An AppleWorks Init           *
4 *           *****                                     *
5 *           - Adds a multi-year perpetual calendar     *
6 *           display to the <OA-Q> DeskTop Index        *
7 *           accessible from any screen in              *
8 *           AppleWorks 5.1 -                           *
9 *
10 *           Version 5.2 (for AppleWorks Version 5.1)  *
11 *           (c) 2024 by Hugh Hood (perpetual/multi-year) *
12 *
13 *****
14 *
15 *           PRIOR VERSIONS                             *
16 *           -----                                     *
17 * (a)       Single year version 1.0 (c) 1996 by      *
18 *           Christian Serreau / The AppleWorks Gazette *
19 *
20 * (b)       Unfinished and unimplemented version     *
21 *           included in AppleWorks 5.1 (c) 1995      *
22 *           as a blanked screen reading simply:       *
23 *
24 *           AppleWorks Monthly Calendar by Randy Brandt *
25 *           Will it ever do anything?                 *
26 *
27 *****
28 *
29 *           - After entering the Desktop Index by     *
30 *           pressing <OA-Q>, press <OA-M>             *
31 *           to display the calendar -                 *
32 *
33 *           - Press <Left Arrow>/<Right Arrow> to change Month *
34 *
35 *           - Press <Up Arrow>/<Down Arrow> to change Year *
36 *
37 *           - Press <Return> to enter a Year from 1582 to 9999 *
38 *           [Gregorian Calendar]                      *
39 *
40 *           - Calendar may then be printed, copied or *
41 *           imaged to the clipboard by accessing      *
42 *           the standard <OA-H> dialog -              *
43 *           - <OA-H> is modified during the routine   *
44 *           to omit the screen headers and footers   *
45 *           and only print or copy the Calendar and  *
46 *           to insert 0.00" left and right margins   *
47 *
48 *           - Seg $27 is patched to allow <OA-Q><OA-M> to call *
49 *           Seg $2D (Desktop Calendar), and Seg $2D is *
50 *           patched to generate and display the perpetual/ *
51 *           multi-year calendar.                      *
52 *
53 *           - NOTE: Since the length of the new code for $5200+ *
54 *           exceeds the $400 byte maximum for the    *
55 *           SEG Patch Manager memory ($BB00-$BEFF),  *
56 *           the code is first stored in Desktop      *
57 *           memory when the init is run and its      *
58 *           pointer is saved within the patch code   *

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59 *           so that it may be retrieved and run at           *
60 *           the proper address ($5200).                       *
61 *                                                           *
62 *                                                           *
63 *****
64
65         TR           ADR           ; truncate bank address
66
67         XC           ; enable 65C02 code
68
69
70 * Internal AppleWorks Equates
71 ErrFlag    EQU      $03           ; ProDOS error occur?
72 FoundCmd   EQU      $86           ; non-zero if command found
73 FoundEsc   EQU      $88           ; non-zero if <ESC> pressed
74 MReg       EQU      $91           ; MultByte/MultWord/DivWord result here
75 MWrkX      EQU      $93           ;
76
77 AArg       EQU      $9A           ; $9A/$9B - contain address of Year in ASCII
78 BArg       EQU      $9C           ; $9C/$9D - used for conversion calculation
79 CArg       EQU      $9E           ; $9E/$9F - will contain FullYear in HEX
80
81 DVEndMSB   EQU      $F2           ; $F2/$F3 - DivWord remainder here
82 HardCopyTop EQU      $AAB         ; top line for <OA-H> (default=0)
83 HardCopyBtm EQU      $AAC         ; bottom line for <OA-H> (default=$18/24)
84 DTCurOpen EQU      $C54         ; current file # (if any)
85 DTCTOnDesk EQU      $C55         ; number of files on current Desktop
86 SaveScreen1 EQU      $CBB         ; pointer to SaveScr screen 1
87 SaveScreen2 EQU      $CBD         ; pointer to SaveScr screen 2
88 NewStr     EQU      $D85         ; 128 bytes (used by many routines)
89 OrgInMem   EQU      $E86         ; $00 = in file / $01 = in menu /
90           ; $40 = in file list
91 StrWork5   EQU      $FD7         ; 5-byte pString used by newWord2Str
92 MiscSet2   EQU      $FFE         ; Bit 3 is Mousetext Screens
93
94 * AppleWorks Host Equates
95 AWVersion  EQU      $1003         ; $33/51 = 5.1 / $28/40 = 4.0 /
96           ; $1E/30 = 3.0
97 StrWork3   EQU      $1018         ; 3-byte pString used by newConv1TP
98 MainInMem  EQU      $101C         ; $01/DB; $15/WP; $1D/SS
99 PrevSeg    EQU      $1021         ; SEG in use (last loaded by CallSeg)
100 T0Active   EQU      $10E6         ; $00 = enabled / $01 = disabled <OA-ESC>
101 CursorOnSw EQU      $10F2         ; $00 = cursor off / $01 = cursor on
102 CallSeg    EQU      $10FA         ; AW segment loading routine
103           ; - LDA with segment # before calling
104           ; ($01/01 - $2F/47)
105           ; - see segment chart
106           ; - add $80/128 to load only (not JMP)
107 ClearDA    EQU      $1100         ; clears display area on screen
108 DivWord    EQU      $1112         ; routine to divide (2) words
109           ; followed by:
110           ; (i) address of dividend, and
111           ; (ii) address of divisor
112           ; - result/quotient in MReg / $91-$92
113           ; - remainder in DVEndMSB / $F2-$F3
114 DoBell     EQU      $1115         ; ring bell and return 'A' = 1 / true
115 DoGoToXY   EQU      $1118         ; gotoXY (cursor on screen)
116 HiLight    EQU      $1133         ; inverse characters on screen

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117				; X & Y = screen position to start
118				; accum = # of characters (if 0 = normal)
119	MultByte	EQU	\$1142	; multiply byte ('X') times byte ('Y')
120				; (result in MReg / \$91-\$92)
121	MultWord	EQU	\$1145	; multiply (2) addresses (result in MReg+)
122	MvLeftRtn	EQU	\$1148	; move in memory routine (negative/left)
123				; - followed by destination/source/length
124	MvRightRtn	EQU	\$114B	; move in memory routine (positive/right)
125				; - followed by destination/source/length
126	PopStack	EQU	\$114E	; removes the last Escape level
127	PressAny	EQU	\$1151	; 'Press space to continue'
128	PushStack	EQU	\$1157	; add a level to Escape road map
129				; - followed by address of text pString
130	ReadKB	EQU	\$115A	; read a character from keyboard
131	RestCursor	EQU	\$115D	; restore to before WriteCom
132	StrMvRtn	EQU	\$116C	; copy a pString
133				; - followed by destination/source
134	StrWrRtn	EQU	\$116F	; writes a string at a fixed location
135				; on the screen
136				; (follow JSR with col/row/string address)
137	WriteOne	EQU	\$1181	; write one character / precede with LDX
138				; (also accepts console commands)
139	WritePRtn	EQU	\$1187	; propagates a character (repeats)
140				; (X) times of (Y) character
141	WriteCom	EQU	\$118A	; writes a string on last line
142				; (follow JSR with string address)
143	StateByte0	EQU	\$11B0	; one (of many) 'state' save bytes
144	DrawBox	EQU	\$11BA	; draws rectangle mousetext box on screen
145				; - followed by column/row/width/height
146	BoxDone	EQU	\$11BD	; restores some \$1Exx stuff
147	SaveScr	EQU	\$11C3	; JMP \$1A62 / 4C 62 1A
148	RestoreScr	EQU	\$11C6	
149	CommandJump	EQU	\$1DF5	; JMP \$1E02 / execute loaded command
150	CommandGo	EQU	\$1E02	; JMP here to start \$1E00+ command
151				
152	* AppleWorks SEG \$27 (Organizer Main) Equates			
153	OAQMenuCnt	EQU	\$4611	; # of <OA-Q> <OA-x> selections
154				
155				
156	* AppleWorks Subhost Equates			
157	DCentury	EQU	\$AB13	; # of century (e.g. - 19 or 20)
158	DYear	EQU	\$AB14	; # of year (0 - 127)
159	DMonth	EQU	\$AB15	; # of month
160	DDay	EQU	\$AB16	; # of day
161	ReadClock	EQU	\$AB2E	; ReadClock / write to DYear/DMonth/DDay
162	NewGetStr	EQU	\$AB34	; routine to read string into NewStr
163				; - put length in 'A'
164	WriteText	EQU	\$AB37	; writes multiple strings
165				; - follow with address of string 'block'
166				; - block contains: (i) pString for 1
167				; (ii) column for 1
168				; (iii) row for 1
169				; (iv) repeat i/ii/iii
170				; (v) \$00 = endbyte
171	newCC2S	EQU	\$AB40	; concatenate (2) strings
172				; (first String has second added
173				; at end)
174	DoGetMonth	EQU	\$AB52	; LDA with # of month;

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175                                     ; pointer to month string in 'Y' and 'A'
176 newWord2Str      EQU                $AB61      ; convert HEX word to decimal string
177                                     ; (result in StrWork5) [5 character max]
178 newConv1TP       EQU                $AB64      ; convert HEX byte to decimal string
179                                     ; (result in StrWork3) [3 character max]
180 GetStrLowGet     EQU                $B246      ; default low character is $20 <space>
181 GetStrHiGet      EQU                $B24A      ; default low character is $7F <del>
182 SMGetBlock       EQU                $D005      ; load a block into main memory
183                                     ; (pointer in main / 'gets' to main)
184                                     ; - follow with:
185                                     ;   (i) address in main to block pointer
186                                     ;   (ii) address in main to write data
187                                     ;   [CArg/ZReg00 $9E/$9F is returned with
188                                     ;    number of bytes retrieved]
189 SMPutBlock       EQU                $D011      ; puts a block into desktop memory from main
190                                     ; - follow with:
191                                     ;   (i) address in main to block pointer
192                                     ;   [if possible, uses existing pointer;
193                                     ;    otherwise new pointer stored at
194                                     ;    this address]
195                                     ;   (ii) address in main to read data
196                                     ;   (iii) length of area to read
197 SMRelBlock       EQU                $D01A      ; releases a Desktop memory block
198                                     ; - follow with address of pointer
199 DispEsc          EQU                $D026      ; display Escape situation & help
200 GetMenuBar       EQU                $D032      ; inverse horizontal menu bar at bottom
201                                     ; - follow with:
202                                     ;   (i) DA for <ESC> address;
203                                     ;   (ii) DB (number of items);
204                                     ;   (iii) description #x;
205                                     ;   (iv) routine #x;
206                                     ;   (v) description #x+;
207                                     ;   (vi) routine #x+;
208 ReleaseKB        EQU                $D041      ;
209 UndoHelp         EQU                $D047      ;
210 ZapPtrs          EQU                $D06D      ; LDX with module; +$80 adds clipboard
211 MoveToAux        EQU                $D076      ; follow with destination/source/length
212
213 * AppleWorks Init Manager Equates
214 imSavePatch      EQU                $3006      ; Patch Manager save routine in SEG.IM
215 InitAdr          EQU                $4000      ; load address for Init files
216 PatchAdr        EQU                $BB00      ; initial load address for patch code
217                                     ; (NOTE: uses ProDOS I/O buffer -
218                                     ;         1K max length -
219                                     ;         $BB00 - $BEFF)
220
221 * SEG $2D / CalendarMY Equates
222 CalCodeStart     EQU                $5200      ; Relocate calendar code here
223
224
225
226 * Literals
227
228 BaseColumn       EQU                $06
229 Offset           EQU                $14          ; 20
230 SundayCol        EQU                0*4+BaseColumn+Offset      ; $1A/26
231 MondayCol        EQU                1*4+BaseColumn+Offset      ; $1E/30
232 TuesdayCol       EQU                2*4+BaseColumn+Offset      ; $22/34

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233 WednesdayCol EQU 3*4+BaseColumn+Offset ; $26/38
234 ThursdayCol EQU 4*4+BaseColumn+Offset ; $2A/42
235 FridayCol EQU 5*4+BaseColumn+Offset ; $2E/46
236 SaturdayCol EQU 6*4+BaseColumn+Offset ; $32/50
237
238
239
240 *****
241
242 ORG InitAdr ; ($4000)
243 TYP $06 ; create binary file
244
245
246 *****
247 * Init Header *
248 *****
249 START
250 JMP IStart ; skip over header
251
252 **-----
253
254 ASC 'mb' ; Init ID Bytes (AW 5.1)
255 DB $34 ; Init Version - programmer assigned
256 ; e.g. - $0A/1.0 $0B/1.1 $34/5.2
257 STR 'CalendarMY' ; Init Screen Name
258
259 HEX 0000 ; Init Header End Bytes
260
261 **-----
262
263 IStart
264
265 LDA AVersion ; AppleWorks version #
266 CMP #$33 ; Is it Version 5.1?
267 BNE Done ; disregard - wrong version
268
269 StoreCode JSR SMPutBlock ; store calendar code in DT memory
270 DA CalCodePtrAdr ; save pointer here for retrieval ($4xxx)
271 DA Code2End ; start of code to store ($4xxx)
272 DA CalCodeEnd-CalCodeStart ; length of code to store
273
274
275 PatchH27 JSR imSavePatch ; call patch manager
276 DW Code1 ; beginning of patch1 code ($40xx)
277 DW Code2-Code1 ; length of patch code
278 DW $0027 ; SEG number to patch
279 ; ($27 = Organizer Main SEG)
280
281
282 PatchH2D1 JSR imSavePatch ; call patch manager
283 DW Code2 ; beginning of patch2 code ($40xx)
284 DW Code2End-Code2 ; length of patch code
285 DW $002D ; SEG number to patch
286 ; ($2D = Calendar SEG)
287
288
289 Done RTS ; back to Init Manager
290

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```

291 **-----
292
293 Code1      EQU      *      ; (will be $40xx)
294
295           ORG      PatchAdr ; (Patching Code is moved and run
296           ; @ $BB00 by Init Manager)
297
298           HEX      0000    ; Init begin bytes for SEG $27 Patch
299
300
301           LDA      #$0D    ; 13
302           STA      OAQMenuCnt ; increase # of <0A-Q><0A-x> valid
303           ; commands from $0C/12 to $0D/13
304           ; (<0A-M> is 13th command in list)
305
306           RTS
307
308 **-----
309 Code2      ORG      ; ($4xxx+)
310
311
312           ORG      PatchAdr ; (Patching Code is moved and run
313           ; @ $BB00 by Init Manager)
314
315           HEX      0000    ; Init begin bytes for SEG $2D Patch
316
317           JSR      SMGetBlock ; retrieve calendar code from DT memory
318
319           DA      CalCodePA ; address of pointer stored by SMPutBlock
320           ; at running address ($BBxx+)
321           DA      CalCodeStart ; locate code here ($5200)
322
323           RTS      ;
324
325 RunningPtr EQU      *      ; ($BBxx=+)
326
327           ORG      ; ($4xxx+)
328 CalCodePtrAdr ; pointer stored here by SMPutBlock above
329
330           ORG      RunningPtr ; return to $BBxx addressing
331
332 CalCodePA   DA      $0000  ; pointer to stored code block ($BBxx+)
333
334 **-----
335
336 Code2End   ORG      ; ($4xxx+)
337
338
339
340 **-----
341
342           ORG      CalCodeStart ; ($5200)
343
344 CalCode    DA      CalCodeEnd ; SEG $2D end address
345
346           JMP      Begin      ; start routine
347
348 **-----

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349
350 TitleStr      STR      'Multi-Year Calendar'
351
352 DIStr        STR      'Desktop Index'
353
354 CalOptions    STR      'Calendar Options'
355
356 SelectionStr  STR      'Selection'
357
358 EnterYear1Str STR      'Enter year'
359
360 AboutStr      STR      'About Calendar'
361
362 SpaceBarStr   STR      'Press spacebar'
363
364 EnterYearStr  STR      'Enter year (1582 - 9999): '
365
366 YearStr       STR      '20xx'
367
368              DB      $00          ; allow for 5-character year string
369
370 DaysStr       STR      'Sun Mon Tue Wed Thu Fri Sat'
371
372 UseArrowsStr  STR      'Use arrow keys to scroll month and year or press Return for
... more options '
373
374 MonthNum      DB      $01          ; Month written here (January default)
375
376 DaysInMonth   DB      $00          ; table of days in month
377
378              DB      31            ; January # of Days (Month #1)
379 FebDays       DB      28            ; February # of Days (non-leap)
380              DB      31            ; March # of Days
381              DB      30            ; April # of Days
382              DB      31            ; May # of Days
383              DB      30            ; June # of Days
384              DB      31            ; July # of Days
385              DB      31            ; August # of Days
386              DB      30            ; September # of Days
387              DB      31            ; October # of Days
388              DB      30            ; November # of Days
389              DB      31            ; December # of Days (Month #12)
390
391
392 HCTopEntry    DB      $00          ; saved setting for <OA-H> top line
393 HCBtmEntry    DB      $18          ; saved setting for <OA-H> bottom line
394
395              DS      14
396
397 **-----
398
399 Begin
400
401              INC      T0Active      ; disable TimeOut until we un-patch
402              ; several routines on exit
403
404              LDA      CursorOnSw   ; to restore on exit
405              STA      CursorEntry

```

```

406
407         LDA          StateByte0      ; ($11B0) to restore on exit
408         STA          State0Entry
409
410         JSR          ClearDA          ; clear work area on screen
411
412         JSR          PushStack        ; set title and add level to Esc road map
413         DA           DIstr            ; "Desktop Index"
414
415         JSR          PushStack        ; set title and add level to Esc road map
416         DA           TitleStr        ; "Multi-Year Calendar"
417
418
419 **-----
420 * Patch top and bottom line settings for PRINTED <0A-H> routine
421
422         LDA          HardCopyTop      ; setting for <0A-H> top line
423         STA          HCTopEntry       ; save to restore on exit
424         LDA          #$02             ; discard top (2) lines
425         STA          HardCopyTop      ;
426         LDA          HardCopyBtm     ; setting for <0A-H> bottom line
427         STA          HCBtmEntry      ; save to restore on exit
428         LDA          #$16             ; discard bottom (2) lines
429         STA          HardCopyBtm     ;
430
431 **-----
432 * Patch $1E00 loader routine JMP to change <0A-H> and DrawBox settings
433
434         LDA          #<Change1ECmds  ; ($52xx+)
435         STA          CommandJump+1   ; $1DF6
436         LDA          #>Change1ECmds ; ($52xx+)
437         STA          CommandJump+2   ; $1DF7
438
439 **-----
440 * Start drawing calendar
441
442 ReBegin   JSR          DrawBox        ; draw calendar outline rectangle
443           DB          $18             ; column - 24
444           DB          $06             ; row - 6
445           DB          $20             ; width - 32
446           DB          $0B             ; height - 11
447
448
449 **-----
450
451 * Write Month separator dotted line
452
453         LDX          #$1A             ; column - 26
454         LDY          #$07             ; row - 7
455         JSR          DoGoToXY
456
457         LDY          #$2D             ; Normal '-' character
458         LDX          #$1C             ; 28 characters wide
459         JSR          WritePRtn       ; write 'Y' char 'X' times
460
461 * Read and store CURRENT month #
462
463         JSR          ReadClock        ; ReadClock - writes to DMonth

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464         LDA           DMonth           ; Load Month
465         STA           MonthNum        ; Store Current Month # here
466         STZ           NewStr          ; initialize NewStr
467
468 * Calculate and save actual CURRENT FullYear based on AppleWorks stored date
469
470         LDX           DCentury         ; 2-digit century in (1) hex byte
471         LDY           #$64             ; 100
472         JSR           MultByte         ; result in MReg/MReg+1
473
474         LDA           DYear            ; (0-127)
475         CMP           #$64             ; 100 or more?
476         BCC           :R
477         SEC
478         SBC           #$64             ; subtract 100 years to get year
479         CLC
480
481 :R
482
483 * addnum - add 1-byte number (Year) to 2-byte number (Century)
484
485 * CLC                                 ; carry already cleared
486   ADC           MReg                 ; holds full century (e.g. 2000)
487   STA           MReg                 ; write back low byte
488   BCC           :S                  ; high byte not changed
489   INC           MReg+1
490
491 :S   LDA           MReg                 ; save MReg contents for re-use
492   STA           FullYear              ;
493   STA           ThisYear              ; save for day highlight routine
494   LDA           MReg+1                ;
495   STA           FullYear+1            ;
496   STA           ThisYear+1           ; save for day highlight routine
497
498 *
499
500 YearChange JSR           CalcCalNum    ; gets Year in ASCII and Calendar Number
501
502
503 WriteDays  LDA           MonthNum      ; # of month
504           BNE           :B             ; Branch if Month Defined by ReadClock
505
506           LDA           #$01           ; otherwise define as January
507
508 :B   JSR           DoGetMonth          ; lda #month - ptr to string in Y,A
509           STY           :C
510           STA           :D
511           JSR           StrMvRtn      ; move Month Str to NewStr
512           DA           NewStr          ;
513 :C   DB           $00                 ; low byte of Month Str
514 :D   DB           $00                 ; high byte of Month Str
515
516
517           LDA           CalendarNum    ; gets calendar # from 0 - 13
518           ; (0-6 = non-leap; 7-13 = leap)
519           CMP           #$07           ;
520           BCS           :T             ; IS leap year (29 Days in February)
521

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522          LDA          #28          ; 28 days
523          STA          FebDays
524          BRA          :U
525
526 :T          LDA          #29          ; 29 days
527          STA          FebDays
528
529 :U          LDX          NewStr
530          INX          ; increase length of NewStr by one
531          LDA          #$20          ; load 'space' character
532          STA          NewStr,X      ; add space to end of Month Str
533          STX          NewStr        ; increase length of NewStr by one
534          JSR          newCC2S       ; add 2nd string to 1st
535          DA          NewStr         ; NewStr contains Month Str
536          DA          YearStr        ; ASCII Year Str
537          JSR          StrWrRtn
538          DB          $FF           ; centered (columns)
539          DB          $06           ; row
540          DA          NewStr         ; now contains month and year
541
542          LDA          #$20          ; width
543          LDX          #$18          ; start at column
544          LDY          #$06         ; row
545          JSR          HiLight        ; inverse month and year row
546
547          JSR          StrWrRtn
548          DB          $1A           ; column 26
549          DB          $08           ; row 8
550          DA          DaysStr        ; Sun Mon Tue Wed Thu Fri Sat
551
552          JSR          BuildCalendar ; write calendar guts
553
554 **-----
555
556 ReadKeys
557
558          LDA          #$60          ; RTS
559          STA          UndoHelp      ; don't display 'k Avail' message here
560          ; to allow for additional text in WriteCom
561
562          JSR          WriteCom       ; write str on last line
563          DA          UseArrowsStr   ; "Use arrows ..."
564
565          LDA          #$4C          ; JMP
566          STA          UndoHelp      ; re-enable 'k Avail' message here
567
568          LDA          FromAbout      ; coming from 'About' screen?
569          BEQ          :RK
570          JSR          SaveScr        ;
571          STZ          FromAbout     ;
572
573 :RK          JSR          ReadKB
574          CMP          #$1B          ; check for 'escape' key
575          BNE          :E            ; examine keypress
576
577 **-----
578 * Exit on <esc>
579

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580          LDA          HCTopEntry      ; saved setting for <OA-H> top line
581          STA          HardCopyTop    ; restore on exit
582          LDA          HCBtmEntry     ; saved setting for <OA-H> bottom line
583          STA          HardCopyBtm    ; restore on exit
584
585          LDA          #<CommandGo    ; restore normal JMP $1E02
586          STA          CommandJump+1 ; on exit
587          LDA          #>CommandGo    ;
588          STA          CommandJump+2 ;
589
590
591          STZ          $1DC2           ; initialize 'Y' command byte to
592                                     ; require reload of patched <OA-H>
593                                     ; {not confirmed the necessity here}
594                                     ; {BoxDone may re-set this at $04, anyway}
595
596
597          JSR          PopStack        ; removes "Multi-Year Calendar"
598
599          JSR          PopStack        ; removes "Desktop Index"
600
601
602          JSR          BoxDone         ; $11BD (restores some $1Exx stuff)
603
604          STZ          T0Active        ; re-enable TimeOut after un-patches
605                                     ; and forced re-loads
606
607 *****
608
609 * Experimental - determine cause of <OA-Q><OA-C> hang/crash in DejaIIX if
610 * that keystroke combo is used prior to ANY word processor file being
611 * added to the desktop
612
613 * UPDATE: Cleanest way to fix is to add a macro to the startup macro that
614 * adds a new word processor file from scratch and then removes it.
615 * Place the following in <ba-[> between sa-% : and msg ' Default Macros
616 * Sucessfully Installed - Press any key ' :
617
618
619 * // addition to initialize AWP settngs so that items copied to word
620 * // processor clipboard and then accessed via OA-Q and OA-C will not
621 * // crash or hang if an AWP document was not previously accessed
622
623 * t(2) = peek #totalfiles :
624 * if t(2) = 0 :
625 * display 0 :
626 * >1< rtn >3< rtn >1< rtn >n< rtn : esc >4< rtn : rtn > 3< rtn >y<
627 * display 1 :
628 * endif :
629 * t(2) = 0 :
630
631 * // end addition to prevent crash or hang
632
633 *****
634
635          RTS                          ; return if 'escape' pressed
636
637 **-----

```

```

638
639 :E          CMP          #$0D          ; check for Return <CTRL-M>
640          BNE          :EN
641          JMP          MoreMenu        ; year/about/side-by-side
642 **-----
643 :EN          CMP          #$15          ; check for right arrow <CTRL-U>
644          BEQ          MonthPlus      ;
645 **-----
646          CMP          #$2B          ; check for '+' key
647          BEQ          MonthPlus      ;
648 **-----
649          CMP          #$08          ; check for left arrow <CTRL-H>
650          BEQ          MonthMinus     ;
651 **-----
652          CMP          #$2D          ; check for '-' key
653 **-----
654          BEQ          MonthMinus     ;
655 **-----
656          CMP          #$0A          ; check for down arrow <CTRL-J>
657          BEQ          YearMinus      ;
658 **-----
659          CMP          #$0B          ; check for up arrow <CTRL-K>
660          BEQ          YearPlus       ;
661 **-----
662          JSR          DoBell         ; ring bell - try again
663          JMP          ReadKeys      ; go back - keep reading
664
665 **-----
666 MonthPlus   LDX          MonthNum     ; load month #
667          CPX          #$0C          ; December? / 12
668          BCC          :F            ; Jan-Nov?
669 **-----
670          LDX          #$01          ; roll to January / 01
671          STX          MonthNum
672          BRA          YearPlus
673
674 **-----
675 :F          INX          ; increase by 1 month
676          BRA          NewMonth      ;
677
678 **-----
679 MonthMinus  LDX          MonthNum     ; load month #
680          CPX          #$02          ; February? / 02
681          BCS          :G            ; Feb-Dec?
682
683 **-----
684          LDX          #$0C          ; roll to December / 12
685          STX          MonthNum
686          BRA          YearMinus
687
688 **-----
689 :G          DEX          ; decrease by 1 month
690
691 **-----
692 NewMonth    STX          MonthNum     ; store new month # selected
693
694          JSR          WipeHeader
695

```

```

696                JMP                WriteDays                ; re-generate days
697
698 **-----
699 YearPlus        LDA                FullYear
700                CMP                GregEnd                ; 9999 is maximum year
701                BNE                :YP                ; OK to increment year
702                LDA                FullYear+1
703                CMP                GregEnd+1
704                BEQ                :YQ                ; Do NOT increment year
705
706 :YP            INC                FullYear                ; increase year by 1
707                BNE                NewYear
708                INC                FullYear+1
709 :YQ            BRA                NewYear
710 **-----
711 YearMinus        LDA                FullYear
712                CMP                GregStart                ; 1582 is minimum year
713                BNE                :FF                ; OK to decrement year
714                LDA                FullYear+1
715                CMP                GregStart+1
716                BEQ                NewYear                ; Do NOT decrement year
717
718 :FF            LDA                FullYear
719                BNE                :GG
720                DEC                FullYear+1
721 :GG            DEC                FullYear                ; decrease year by 1
722 **-----
723 NewYear         JSR                WipeHeader
724
725                JMP                YearChange                ; re-generate year calendar
726
727 **-----
728 WipeHeader      LDX                #$1B                ; column 27
729                LDY                #$06                ; row 6
730                JSR                DoGoToXY
731                LDY                #$20                ; 'space' character
732                LDX                #$1B                ; 27
733                JSR                WritePRtn                ; write 'Y' char 'X' times
734                RTS
735
736 **-----
737 EnterYear       JSR                PopStack                ; remove Calendar Options
738                JSR                PushStack                ; set title and add level to Esc road map
739                DA                EnterYear1Str                ; "Enter year"
740
741
742                JSR                WriteCom                ; write on command (bottom) line
743                DA                EnterYearStr                ; prompt to enter year
744                LDA                #00
745                STA                NewStr                ; init Newstr
746
747 * patch NewGetStr routine to accept only numbers
748 :PP            LDA                #$30                ; "0"
749                STA                GetStrLowGet                ; limit to numbers
750                LDA                #$3A                ; "9" + 1
751                STA                GetStrHiGet                ; limit to numbers
752
753                LDA                #4                ; limit year length to (4) digits

```

```

754         JSR             NewGetStr          ; put Year string at NewStr ($0D85)
755
756 * un-patch NewGetStr routine to accept all characters
757         LDA             #$20              ; <space>
758         STA             GetStrLowGet      ; restore to defaults
759         LDA             #$7F              ; <delete>
760         STA             GetStrHiGet      ; restore to defaults
761
762
763         LDA             FoundEsc          ; if <ESC> key, exit
764         BNE             :HH              ; Yes, escaped out of EnterYear
765
766         LDA             FoundCmd          ; if first character is not #, try again
767         BEQ             :QQ              ; Cmd not set -- IS a number, proceed
768         JSR             DoBell           ; ring error bell and return 'A' = 1 / true
769         BNE             :PP              ; try again
770
771 * have entry - now convert ASCII year to Hex Year
772 :QQ         JSR             Asc2Hex        ; convert ASCII year in NewStr to
773                                         ; 2-byte Hex in CArg/CArg+1
774
775
776 * check for years 1582 - 9999
777         LDA             CArg+1
778         CMP             GregEnd+1        ; 9999 is maximum year
779         BCC             :YMin            ; high byte is less, now check for too low
780         BNE             EnterYear       ; high byte too high, try to enter again
781
782         LDA             CArg             ; High Byte = GregEnd High Byte
783         CMP             GregEnd          ; 9999 is maximum year
784         BCC             :YMin            ; low byte is less, now check for too low
785         BNE             EnterYear       ; low byte too high, try to enter again
786
787
788 :YMin      LDA             CArg+1
789         CMP             GregStart+1      ; 1582 is minimum year
790         BCC             EnterYear       ; high byte too low, try again
791         BNE             :YOK            ; high byte higher, proceed
792
793         LDA             CArg             ; High Byte = GregStart High Byte
794         CMP             GregStart        ;
795         BCC             EnterYear       ; low byte too low, try to enter again
796
797 * Year is OK - Transfer to FullYear and Go Back
798 :YOK      LDA             CArg            ;
799         STA             FullYear         ;
800         LDA             CArg+1          ;
801         STA             FullYear+1      ;
802
803
804         JSR             PopStack         ;
805         JMP             NewYear         ;
806
807 :HH      JSR             PopStack         ; remove Enter Year
808
809         JMP             ReadKeys        ;
810
811

```

```

812 **-----
813 MoreMenu      JSR      PushStack      ;
814              DA      CalOptions      ;
815
816              JSR      WriteCom      ; write on command (bottom) line
817              DA      SelectionStr    ; prompt to enter year
818
819              JSR      GetMenuBar     ;
820              DA      GoBack          ;
821              DB      2               ;
822              DA      EnterYear1Str   ;
823              DA      EnterYear      ;
824              DA      AboutStr        ;
825              DA      About           ;
826
827
828 GoBack        JSR      PopStack      ;
829
830              JMP      ReadKeys       ;
831
832
833
834 About
835
836
837              JSR      PopStack      ; Remove CalOptions
838              JSR      PushStack     ;
839              DA      AboutStr        ;
840
841
842              JSR      DrawBox        ; draw about rectangle
843              DB      $03            ; column - 3
844              DB      $03            ; row - 3
845              DB      $49            ; width - 73
846              DB      $12            ; height - 18
847
848              JSR      WriteText     ;
849              DA      AboutStrings    ;
850
851
852
853              JSR      PressAny       ;
854              JSR      PopStack       ;
855              JSR      ClearDA        ;
856
857
858              INC      FromAbout      ;
859
860              JMP      ReBegin        ;
861
862 FromAbout     DB      $00            ;
863
864 AboutStrings  DB      :AB-* -1      ; Leading Length Byte
865              DB      $0A            ; Inverse
866              ASC      ' Multi-Year Perpetual Calendar for AppleWorks 5.1 '
867              DB      $0B            ; Normal
868 :AB          DB      $FF            ; centered
869              DB      $04            ; row 4

```



```

926          JSR          DoGoToXY
927          LDX          #$1B          ; write 27 spaces
928          LDY          #$20          ; 'space' character
929          JSR          WritePRtn     ; write 'Y' char 'X' times
930          INC          :I+1          ; increase Row #
931          LDA          :I+1          ;
932          CMP          #$10          ; row # hit $10/16 yet?
933          BCC          :H            ; repeat until blank out 16 rows
934
935 **-----
936 * already calculated before JSR to BuildCalendar routine
937 **-----
938
939          LDA          CalendarNum    ;
940          ASL          ; Multiply by (2)
941          TAX          ; Index into CalFDoMTables
942          LDA          CalFDoMTables,X
943          STA          :R+1
944          LDA          CalFDoMTables+1,X
945          STA          :R+2
946
947          LDY          MonthNum       ; load month # as table offset
948 :R        LDA          CalendarA,Y   ; default to CalendarA
949          STA          :K            ; column
950
951          LDA          DaysInMonth,Y  ; load number of days in month
952          STA          :J+1          ;
953
954
955          LDA          #$01           ; start days @ 1
956          STA          :M+1          ;
957          LDA          #$0A          ; row # to start 1st DOM
958          STA          :L            ; row
959
960 **-----
961 :M        LDA          #$00           ; start days @ 1 then increment
962          JSR          newConv1TP     ; convert Hex to days str
963          LDA          MonthNum       ; load HEX # of month
964          CMP          DMonth        ; DMonth
965          BNE          :N            ; not this month; proceed
966 **-----
967          LDA          :M+1          ; day # being written
968          CMP          DDay          ; DDay / today?
969          BNE          :N            ; not this day; proceed
970 **-----
971          LDA          ThisYear       ; compare year before hilighting
972          CMP          FullYear       ;
973          BNE          :N            ; year is different, skip ahead
974          LDA          ThisYear+1     ;
975          CMP          FullYear+1     ;
976          BNE          :N            ; year is different, skip ahead
977 **-----
978          LDX          #$0A          ; enter console Inverse mode
979          JSR          WriteOne       ; Hilight IF today's date
980 **-----
981 :N        JSR          StrWrRtn      ; Write day of month on calendar
982 :K        DB          $00           ; column # to write DOM
983 :L        DB          $00           ; row # to write DOM

```

```

984          DA          StrWork3          ;
985          LDX         #$0B             ; back to console Normal mode
986          JSR         WriteOne
987          INC         :M+1             ; proceed to 2,3,etc...
988          LDA         :M+1
989
990 :J          CMP         #$00             ; # of days in month put here
991          BEQ         :0               ; still more days to write
992 **-----
993          BCC         :0               ; still more days to write
994 **-----
995          RTS
996          ; no more days - wait for keypress
997 **-----
998 :0          LDA         :K               ; column # written
999          CMP         #$32             ; column 50 or more?
1000         BCS         :P               ; yes, column reset to left
1001
1002 **-----
1003          CLC
1004          ADC         #$04             ; skip 4 spaces for next write
1005          STA         :K               ; column #
1006          BRA         :Q
1007          ;
1008 **-----
1009 :P          LDA         #$1A             ; reset back to column 26
1010         STA         :K               ; column #
1011         INC         :L               ; increase row # by 1
1012
1013 **-----
1014 :Q          JMP         :M               ; repeat to write next day
1015
1016 **-----
1017
1018
1019 CursorEntry  DB          $01             ; default is '0n'
1020
1021 State0Entry  DB          $01             ; default is $01
1022
1023 CalendarNum  DB          $00             ; default is Calendar A/1
1024
1025 FullYear     DW          2000            ; default is year 2000
1026
1027 ThisYear     DW          2022            ; default is year 2022
1028
1029 GregStart    DW          1582           ; start year for Gregorian Calendar
1030
1031 GregEnd      DW          9999           ; maximum year for THIS application
1032
1033 CenturyDiv   DW          100            ;
1034
1035 CenturyX4Div DW          400            ;
1036
1037 YearDiv      DW          4              ;
1038
1039 DaysPerWeek  DW          7              ;
1040
1041 LeapsPerCntry DW         24             ; 24 leaps years in each Century

```

```

1042
1043 LeapYear      DB          $00          ; $00 = No Leap / $07 = Leap
1044
1045 LeapsThisCent DW          $0000          ;
1046
1047 NumOfCenturies DW        $0000          ;
1048
1049 YearAndLeaps  DW          $0000          ; total Day-of-Week advances
1050
1051 TotalLeaps    DW          $0000          ; total leaps since beginning
1052
1053 **-----
1054
1055 * Routine to calculate which of (14) possible calendars applies to year given
1056
1057 CalcCalNum
1058             STZ          LeapYear      ; initialize LeapYear for tables
1059                                     ; (can be 0 or 7)
1060
1061
1062 * Convert year word to ASCII string for Calendar Display and copy to YearStr
1063             JSR          newWord2Str   ; convert hex year to ASCII year
1064             DA          FullYear      ; (result in StrWork5)
1065
1066             JSR          StrMvRtn      ; move ASCII year result to YearStr
1067             DA          YearStr        ;
1068             DA          StrWork5      ;
1069
1070
1071 * Is current year (generally) a Leap Year? (evenly divisible by 4)
1072             JSR          DivWord       ;
1073             DA          FullYear      ; dividend
1074             DA          YearDiv       ; divisor / 4 years
1075
1076             LDA          DVEndMSB     ; remainder of FullYear/4
1077             BNE          NotLeap      ; Every 4 years (generally) is leap year
1078                                     ; (don't need to check DVEndMSB+1 since
1079                                     ; anything there will be 256 x n, and
1080                                     ; 265 IS evenly divisible by 4)
1081
1082
1083 Leap         LDA          #$07         ;
1084             STA          LeapYear     ;
1085             BRA          CalcLeaps    ;
1086
1087
1088 NotLeap      STZ          LeapYear     ;
1089
1090
1091 * Calculate # of Leap Years FOLLOWING this Century's century year (xxx1+)
1092 CalcLeaps    JSR          DivWord     ; divide years by 100
1093             DA          FullYear     ;
1094             DA          CenturyDiv    ; 100 years
1095
1096             LDA          MReg         ; # of centuries / quotient
1097             STA          NumOfCenturies ; to calculate leaps in prior centuries
1098
1099             LDA          DVEndMSB     ; remainder of FullYear/100

```

```

1100         BNE             :AA             ; yes, there IS a remainder
1101
1102 * if an even 100-year century mark is NOT leap (unless 400th year - handled below)
1103         STZ             LeapYear        ; not a leap year / 'F' = 0
1104         STZ             LeapsThisCent   ; no leap years since Century / 'L' = 0
1105         BRA             :BB
1106
1107 * if NOT an even 100-year century mark
1108 :AA      DEC             DVEndMSB        ; subtract 1 year (current year)
1109                                     ; (no effect on 1st day of THIS year calc)
1110         LDA             DVEndMSB        ;
1111         STA             MWrkX           ;
1112         LDA             DVEndMSB+1      ;
1113         STA             MWrkX+1        ;
1114
1115
1116         JSR             DivWord         ; divide years since Century (less current)
1117         DA              MWrkX          ; by (4) to get leap years since Century
1118         DA              YearDiv        ; 4 years
1119
1120         LDA             MReg            ; quotient / q
1121         STA             LeapsThisCent   ; # of leap years since Century / 'L' = q
1122
1123 * Calculate # of Leap Years in all prior Centuries
1124 :BB      JSR             MultWord        ;
1125         DA              NumOfCenturies ;
1126         DA              LeapsPerCntry  ; 24 leaps per Century
1127
1128 * Add # of Leap Years in previous Centuries to # of Leap Years since this Century
1129         LDA             LeapsThisCent   ; # of leap years since Century
1130         CLC             ; prepare to add
1131         ADC             MReg            ; leap years in previous Centuries
1132         STA             TotalLeaps
1133         LDA             LeapsThisCent+1 ;
1134         ADC             MReg+1
1135         STA             TotalLeaps+1
1136
1137 * Calculate # of Leap Years in every previous 4th century
1138         JSR             DivWord         ; divide years by 400
1139         DA              FullYear        ;
1140         DA              CenturyX4Div    ; 400 years
1141
1142 * Add 1 extra Leap Year every 4th century to total # Leap Years
1143         LDA             TotalLeaps      ; # of total leap years so far
1144         CLC             ; prepare to add
1145         ADC             MReg            ; leap years in every previous 4th century
1146         STA             TotalLeaps
1147         LDA             TotalLeaps+1   ;
1148         ADC             MReg+1         ;
1149         STA             TotalLeaps+1   ;
1150
1151 * If an even 400-year century mark current year IS a leap (subtract it out)
1152         LDA             DVEndMSB        ; remainder from division by 400
1153         BNE             :EE             ; yes, there is a remainder
1154
1155 * Current 400th year IS a leap so subtract it from # of total leap years so far
1156         LDA             TotalLeaps      ;
1157         BNE             :FF             ;

```

```

1158             DEC             TotalLeaps+1      ; subtract 1 year (current year)
1159 :FF             DEC             TotalLeaps      ; (no effect on 1st day of THIS year calc)
1160
1161             LDA             #$07              ; mark as leap year
1162             STA             LeapYear          ;
1163
1164
1165 *****
1166 * IF desired that multiples of 4000 NOT be leap years,
1167 * in spite of their being evenly divisible by 400, add that
1168 * code HERE.
1169 *
1170 * NOTE: Most models treat multiples of 4000 as leap years,
1171 *       but some consider their exclusion as
1172 *       being more accurate.
1173 *****
1174 * Add multiples of 4000 exclusion code here:
1175 *
1176 * Code ...
1177 *
1178 * End multiples of 4000 exclusion code.
1179 *****
1180
1181 * Calculate # of Day-of-Week advances in all prior years back to 0001
1182 * by adding the number of previous years to the number of previous leap years
1183 * and dividing by 7, the number of possible days per week. The remainder then
1184 * gives the day-of-week for January 1st of the current year.
1185 *
1186 * NOTE: Each passing year adds 1 Day-of-Week to starting Day-of-Week for year.
1187 *       (365 days / 7 days per week equals 52 weeks with a 1 day remainder)
1188
1189 :EE             LDA             FullYear
1190             CLC                     ; prepare to add
1191             ADC             TotalLeaps
1192             STA             YearAndLeaps      ;
1193             LDA             FullYear+1       ;
1194             ADC             TotalLeaps+1     ;
1195             STA             YearAndLeaps+1   ;
1196
1197             JSR             DivWord          ;
1198             DA              YearAndLeaps     ;
1199             DA              DaysPerWeek     ; 7
1200
1201             LDA             DVEndMSB        ; remainder
1202             STA             CalendarNum      ; will yield Calendars 0-6
1203
1204             CLC                     ; prepare to add
1205             ADC             LeapYear         ; will be either '0' or '7'
1206             STA             CalendarNum      ; will yield Calendars 0-13
1207
1208             RTS
1209
1210 **-----
1211
1212 * Routine to convert 1-4 digit ASCII year in NewStr to 2-byte HEX FullYear
1213
1214 Asc2Hex
1215             LDA             #<NewStr        ; copy location of ASCII string

```

```

1216          STA          AArg          ; to AArg
1217          LDA          #>NewStr      ;
1218          STA          AArg+1        ;
1219
1220          STZ          CArg          ; initialize CArg, which will
1221          STZ          CArg+1        ; contain computed result
1222
1223          LDX          NewStr         ; get length byte
1224          STZ          NewStr+1,X     ; zero terminate after last character
1225
1226          LDY          #$00          ;
1227
1228 Parse      INY          ; start at 1 ($0D86) and progress
1229          LDA          (AArg),Y      ;
1230          CMP          #$30          ; ASCII '0'
1231          BCC          ResultDone    ; will find $00 at end of ASCII string
1232
1233          CMP          #$3A          ;
1234          BCS          ResultDone    ;
1235
1236          AND          #%11001111   ; will limit to $00 - $09
1237          ; {drop bits 4 & 5}
1238          STA          BArg+1        ;
1239          LDA          CArg+1        ;
1240          STA          BArg         ;
1241          LDA          CArg         ;
1242          ASL          ; multiply 'A' x 2 / Bit 7 to Carry
1243          ROL          BArg         ; multiply x 2 / Carry to Bit 0
1244          ASL          ; multiply 'A' x 2 / Bit 7 to Carry
1245          ROL          BArg         ; multiply x 2 / Carry to Bit 0
1246          ADC          CArg         ; add CArg to 'A'
1247          STA          CArg         ; store result at CArg
1248          LDA          BArg         ;
1249          ADC          CArg+1        ;
1250          STA          CArg+1        ;
1251          ASL          CArg         ; multiply CArg x 2 / Bit 7 to Carry
1252          ROL          CArg+1        ; multiply x 2 / Carry to Bit 0
1253          LDA          CArg         ;
1254          ADC          BArg+1        ; add BArg+1 to 'A'
1255          STA          CArg         ;
1256          BCC          Parse        ; get next digit
1257
1258          INC          CArg+1        ;
1259          BRA          Parse        ; now get next digit
1260
1261 **-----
1262
1263 ResultDone RTS          ; go back ... done
1264
1265 **-----
1266
1267 * Dynamic patches to internal AppleWorks routines loaded at $1E00
1268 * <OA-H> and DrawBox
1269
1270 * Change top and bottom lines for <OA-H> Copy and Image to Clipboard
1271 Change1ECmds
1272          PHA          ; save to restore
1273

```

```

1274          LDA          $1E01          ; '$FC' stored here for <0A-H> routine
1275          CMP          #$01          ; is it $1E command?
1276          BEQ          :DBN
1277          JMP          DoneHere
1278
1279 :DBN          LDA          $1E00          ; '$FC' stored here for <0A-H> routine
1280          CMP          #$FC          ; is it $1E command?
1281          BEQ          :X          ; process <0A-H> changes
1282
1283          CMP          #$44          ; '$44' stored here for DrawBox routine
1284          BEQ          :DBC
1285          JMP          DoneHere
1286
1287 * Make Changes to DrawBoxCommand {for a better MT box routine}
1288
1289 :DBC          LDA          #$EA          ; NOP out SaveScr Routine
1290          STA          $1E59          ;
1291          STA          $1E5A          ;
1292          STA          $1E5B          ;
1293
1294
1295
1296          LDA          #$DA          ; MT Right Hand Bar '|'
1297          STA          $1E98          ; was MT Left Hand Bar '|'
1298          LDA          #$DF          ; MT Left Hand Bar '|'
1299          STA          $1EA5          ; was MT Right Hand Bar '|'
1300          LDA          #$EA          ; NOP
1301          STA          $1E7A          ; {was INX}
1302          STA          $1E7B          ; {was INX}
1303          STA          $1E94          ; don't write space '_' first
1304          STA          $1E95          ;
1305          STA          $1E96          ;
1306          STA          $1EC0          ; {was INY}
1307          STA          $1EC7          ; {was INX}
1308          STA          $1EC8          ; {was INX}
1309          LDA          #$5F          ; underscore '_' for box bottom
1310          STA          $1ECA          ; {was MT Top Bar / #$CC}
1311          BNE          DoneHere
1312
1313 * Make Changes to <0A-H> Command
1314
1315 :X          LDA          #$17          ; change from #$18 total lines
1316          STA          $1ED4          ; to #$15 plus (2) margin commands
1317          ; (will be stored @ $C50 / KBHighest
1318
1319          LDA          #$15          ; (less 2 at top and 1 at bottom)
1320          STA          $1F0A          ; # of screen lines in copy loop
1321
1322          LDA          #$4F          ; change copy to clipboard length
1323          STA          $1EB0          ; from $52/82 to $4F/79 (gross #)
1324          LDA          #$CD          ; change copy to clipboard length
1325          STA          $1EAE          ; from $D0/80 to $CD/77
1326          ; (actual characters)
1327          LDA          #$EA          ; NOP
1328          STA          $1E1F          ; disable STZ $A2 instruction
1329          STA          $1E20          ;
1330          LDA          #$02          ; change from #$00 as top line
1331          STA          $A2          ;

```

```

1332
1333 * Experimental to add Zero Margins at top of Clipboard
1334
1335         LDA             #<ZeroMargins ;
1336         STA             $1ECC          ; was $41 ($D041 / ReleaseKB)
1337         LDA             #>ZeroMargins
1338         STA             $1ECD          ; was $D0 ($D041 / ReleaseKB)
1339
1340         BRA             DoneHere
1341
1342
1343 ZeroMargins JSR         ReleaseKB      ; original command at $1ECB
1344             LDA             #$08          ; original Clipboard start is $01/0804
1345             STA             $1ED9        ; (change to $01/0808)
1346             JSR         MoveToAux      ; move margin commands to top of Clipboard
1347             DA             $0804        ; clipboard start (in Aux Mem)
1348             DA             MarginCmds   ;
1349             DW             $04          ; two words (4 bytes)
1350
1351 *****
1352 * Experimental code was inserted here to work around a confirmed Deja IIX bug
1353 * that can be duplicated by doing an <OA-H> (I)mage copy of the Main Menu,
1354 * opening an AWP file, copying part of it to the Clipboard, going back to
1355 * the Main Menu, and doing another <OA-H> (I)mage copy of the Main Menu.
1356 * Deja IIX itself will crash (not the emulated AppleWorks) and reports
1357 * a problem with its NativeCommonPutBlock and NativeAuxPutBlock routines.
1358 * All attempts at a workaround were unsuccessful, but it is noted that if
1359 * the Deja IIX Debug Memory window is open, there is no crash, but anomalies
1360 * are still present if Clipboard contains any Printer Options (e.g. - LM/RM).
1361 *****
1362
1363             RTS
1364
1365 MarginCmds DW             $D900          ; LM = 0.00
1366            DW             $DA00          ; RM = 0.00
1367
1368 CRCmds     DW             $D000          ;
1369            DW             $D000          ;
1370            DW             $D000          ;
1371            DW             $D000          ;
1372
1373 *****
1374
1375 DoneHere
1376             PLA             ; now restore accumulator
1377             JMP             CommandGo   ; execute command
1378
1379
1380 **-----
1381 ** Address table for calendar first day of month tables
1382
1383 CalFDoMTables DA         CalendarA      ; #0
1384              DA         CalendarB      ; #1
1385              DA         CalendarC      ; #2
1386              DA         CalendarD      ; #3
1387              DA         CalendarE      ; #4
1388              DA         CalendarF      ; #5
1389              DA         CalendarG      ; #6

```


1390	DA	CalendarH	; #7
1391	DA	CalendarI	; #8
1392	DA	CalendarJ	; #9
1393	DA	CalendarK	; #10
1394	DA	CalendarL	; #11
1395	DA	CalendarM	; #12
1396	DA	CalendarN	; #13

1397
 1398 ** 1st Day of Month Tables for 14 possible calendars (A-N / 0-13)
 1399

1400	CalendarA	DB	\$00	
1401		DB	SundayCol	; January
1402		DB	WednesdayCol	; February
1403		DB	WednesdayCol	; March
1404		DB	SaturdayCol	; April
1405		DB	MondayCol	; May
1406		DB	ThursdayCol	; June
1407		DB	SaturdayCol	; July
1408		DB	TuesdayCol	; August
1409		DB	FridayCol	; September
1410		DB	SundayCol	; October
1411		DB	WednesdayCol	; November
1412		DB	FridayCol	; December

1413				
1414	CalendarB	DB	\$00	
1415		DB	MondayCol	; January
1416		DB	ThursdayCol	; February
1417		DB	ThursdayCol	; March
1418		DB	SundayCol	; April
1419		DB	TuesdayCol	; May
1420		DB	FridayCol	; June
1421		DB	SundayCol	; July
1422		DB	WednesdayCol	; August
1423		DB	SaturdayCol	; September
1424		DB	MondayCol	; October
1425		DB	ThursdayCol	; November
1426		DB	SaturdayCol	; December

1427				
1428	CalendarC	DB	\$00	
1429		DB	TuesdayCol	; January
1430		DB	FridayCol	; February
1431		DB	FridayCol	; March
1432		DB	MondayCol	; April
1433		DB	WednesdayCol	; May
1434		DB	SaturdayCol	; June
1435		DB	MondayCol	; July
1436		DB	ThursdayCol	; August
1437		DB	SundayCol	; September
1438		DB	TuesdayCol	; October
1439		DB	FridayCol	; November
1440		DB	SundayCol	; December

1441				
1442	CalendarD	DB	\$00	
1443		DB	WednesdayCol	; January
1444		DB	SaturdayCol	; February
1445		DB	SaturdayCol	; March
1446		DB	TuesdayCol	; April
1447		DB	ThursdayCol	; May

1448		DB	SundayCol	; June
1449		DB	TuesdayCol	; July
1450		DB	FridayCol	; August
1451		DB	MondayCol	; September
1452		DB	WednesdayCol	; October
1453		DB	SaturdayCol	; November
1454		DB	MondayCol	; December
1455				
1456	CalendarE	DB	\$00	
1457		DB	ThursdayCol	; January
1458		DB	SundayCol	; February
1459		DB	SundayCol	; March
1460		DB	WednesdayCol	; April
1461		DB	FridayCol	; May
1462		DB	MondayCol	; June
1463		DB	WednesdayCol	; July
1464		DB	SaturdayCol	; August
1465		DB	TuesdayCol	; September
1466		DB	ThursdayCol	; October
1467		DB	SaturdayCol	; November
1468		DB	TuesdayCol	; December
1469				
1470	CalendarF	DB	\$00	
1471		DB	FridayCol	; January
1472		DB	MondayCol	; February
1473		DB	MondayCol	; March
1474		DB	ThursdayCol	; April
1475		DB	SaturdayCol	; May
1476		DB	TuesdayCol	; June
1477		DB	ThursdayCol	; July
1478		DB	SundayCol	; August
1479		DB	WednesdayCol	; September
1480		DB	FridayCol	; October
1481		DB	MondayCol	; November
1482		DB	WednesdayCol	; December
1483				
1484	CalendarG	DB	\$00	
1485		DB	SaturdayCol	; January
1486		DB	TuesdayCol	; February
1487		DB	TuesdayCol	; March
1488		DB	FridayCol	; April
1489		DB	SundayCol	; May
1490		DB	WednesdayCol	; June
1491		DB	FridayCol	; July
1492		DB	MondayCol	; August
1493		DB	ThursdayCol	; September
1494		DB	SaturdayCol	; October
1495		DB	TuesdayCol	; November
1496		DB	ThursdayCol	; December
1497				
1498	CalendarH	DB	\$00	
1499		DB	SundayCol	; January
1500		DB	WednesdayCol	; February
1501		DB	ThursdayCol	; March
1502		DB	SundayCol	; April
1503		DB	TuesdayCol	; May
1504		DB	FridayCol	; June
1505		DB	SundayCol	; July

1506		DB	WednesdayCol	; August
1507		DB	SaturdayCol	; September
1508		DB	MondayCol	; October
1509		DB	ThursdayCol	; November
1510		DB	SaturdayCol	; December
1511				
1512	CalendarI	DB	\$00	
1513		DB	MondayCol	; January
1514		DB	ThursdayCol	; February
1515		DB	FridayCol	; March
1516		DB	MondayCol	; April
1517		DB	WednesdayCol	; May
1518		DB	SaturdayCol	; June
1519		DB	MondayCol	; July
1520		DB	ThursdayCol	; August
1521		DB	SundayCol	; September
1522		DB	TuesdayCol	; October
1523		DB	FridayCol	; November
1524		DB	SundayCol	; December
1525				
1526	CalendarJ	DB	\$00	
1527		DB	TuesdayCol	; January
1528		DB	FridayCol	; February
1529		DB	SaturdayCol	; March
1530		DB	TuesdayCol	; April
1531		DB	ThursdayCol	; May
1532		DB	SundayCol	; June
1533		DB	TuesdayCol	; July
1534		DB	FridayCol	; August
1535		DB	MondayCol	; September
1536		DB	WednesdayCol	; October
1537		DB	SaturdayCol	; November
1538		DB	MondayCol	; December
1539				
1540	CalendarK	DB	\$00	
1541		DB	WednesdayCol	; January
1542		DB	SaturdayCol	; February
1543		DB	SundayCol	; March
1544		DB	WednesdayCol	; April
1545		DB	FridayCol	; May
1546		DB	MondayCol	; June
1547		DB	WednesdayCol	; July
1548		DB	SaturdayCol	; August
1549		DB	TuesdayCol	; September
1550		DB	ThursdayCol	; October
1551		DB	SundayCol	; November
1552		DB	TuesdayCol	; December
1553				
1554	CalendarL	DB	\$00	
1555		DB	ThursdayCol	; January
1556		DB	SundayCol	; February
1557		DB	MondayCol	; March
1558		DB	ThursdayCol	; April
1559		DB	SaturdayCol	; May
1560		DB	TuesdayCol	; June
1561		DB	ThursdayCol	; July
1562		DB	SundayCol	; August
1563		DB	WednesdayCol	; September

```

1564          DB          FridayCol      ; October
1565          DB          MondayCol       ; November
1566          DB          WednesdayCol    ; December
1567
1568 CalendarM      DB          $00
1569          DB          FridayCol        ; January
1570          DB          MondayCol       ; February
1571          DB          TuesdayCol      ; March
1572          DB          FridayCol       ; April
1573          DB          SundayCol       ; May
1574          DB          WednesdayCol    ; June
1575          DB          FridayCol       ; July
1576          DB          MondayCol       ; August
1577          DB          ThursdayCol     ; September
1578          DB          SaturdayCol     ; October
1579          DB          TuesdayCol      ; November
1580          DB          ThursdayCol     ; December
1581
1582 CalendarN      DB          $00
1583          DB          SaturdayCol      ; January
1584          DB          TuesdayCol      ; February
1585          DB          WednesdayCol    ; March
1586          DB          SaturdayCol     ; April
1587          DB          MondayCol      ; May
1588          DB          ThursdayCol     ; June
1589          DB          SaturdayCol     ; July
1590          DB          TuesdayCol     ; August
1591          DB          FridayCol       ; September
1592          DB          SundayCol       ; October
1593          DB          WednesdayCol    ; November
1594          DB          FridayCol       ; December
1595
1596
1597 **-----
1598
1599 CalCodeEnd     EQU          *          ; ($5xxx+)
1600
1601 **-----
1602
1603          SAV          I.CALENDARMY    ;
1604          LST          OFF
1605
1606          END
1607
1608 *=====
1609

```