

HP-41C Video Work Sheet Program by Hans E. Trixer
PPC Calculator Journal Vol 10 No 2 Pg 24 Mar 1983
Uses Extended Functions, HP-IL, & Video Interface

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01 LBL "VWS" ;Video Work Sheet Program
02 SF 27
03 CF 29
04 FIX 0
05 XEQ "CS" ;Clear Screen (Line 463)
06 " " ;2 spaces
07 ASTO 00
08 " " ;1 space
09 ASTO 49
10 CLA
11 AON
12 "HEADING A?"
13 PROMPT ;Enter 3 character column A heading
14 ASTO 37
15 "B?"
16 PROMPT ;Enter 3 character column B heading
17 ASTO 38
18 "C?"
19 PROMPT ;Enter 3 character column C heading
20 ASTO 39
21 "D?"
22 PROMPT ;Enter 3 character column D heading
23 ASTO 40
24 "E?"
25 PROMPT ;Enter 3 character column E heading
26 ASTO 41
27 " =" ;3 spaces, equal sign
28 ASTO 42
29 "LINE 1?"
30 PROMPT ;Enter 1 character line 1 header
31 ASTO 43
32 "2?"
33 PROMPT ;Enter 1 character line 2 header
34 ASTO 44
35 "3?"
36 PROMPT ;Enter 1 character line 3 header
37 ASTO 45
38 "4?"
39 PROMPT ;Enter 1 character line 4 header
40 ASTO 46
41 "5?"
42 PROMPT ;Enter 1 character line 5 header
43 ASTO 47
44 "= " ;Equal sign, 2 spaces
45 ASTO 48
46 AOFF
47 LBL 01
48 "CELL 1?"
49 PROMPT ;Enter 3 digit number for cell 1
50 STO 01
51 LBL 02
52 "2?"
53 PROMPT ;Enter 3 digit number for cell 2
54 STO 02
55 LBL 03
56 "3?"
57 PROMPT ;Enter 3 digit number for cell 3
58 STO 03
59 LBL 04
60 "4?"
61 PROMPT ;Enter 3 digit number for cell 4
62 STO 04
63 LBL 05
64 "5?"
65 PROMPT ;Enter 3 digit number for cell 5
66 STO 05
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67 LBL 06
68 "6?"
69 PROMPT      ;Enter 3 digit number for cell 6
70 STO 06
71 LBL 07
72 "7?"
73 PROMPT      ;Enter 3 digit number for cell 7
74 STO 07
75 LBL 08
76 "8?"
77 PROMPT      ;Enter 3 digit number for cell 8
78 STO 08
79 LBL 09
80 "9?"
81 PROMPT      ;Enter 3 digit number for cell 9
82 STO 09
83 LBL 10
84 "10?"
85 PROMPT      ;Enter 3 digit number for cell 10
86 STO 10
87 LBL 11
88 "11?"
89 PROMPT      ;Enter 3 digit number for cell 11
90 STO 11
91 LBL 12
92 "12?"
93 PROMPT      ;Enter 3 digit number for cell 12
94 STO 12
95 LBL 13
96 "13?"
97 PROMPT      ;Enter 3 digit number for cell 13
98 STO 13
99 LBL 14
100 "14?"
101 PROMPT      ;Enter 3 digit number for cell 14
102 STO 14
103 LBL 15
104 "15?"
105 PROMPT      ;Enter 3 digit number for cell 15
106 STO 15
107 LBL 16
108 "16?"
109 PROMPT      ;Enter 3 digit number for cell 16
110 STO 16
111 LBL 17
112 "17?"
113 PROMPT      ;Enter 3 digit number for cell 17
114 STO 17
115 LBL 18
116 "18?"
117 PROMPT      ;Enter 3 digit number for cell 18
118 STO 18
119 LBL 19
120 "19?"
121 PROMPT      ;Enter 3 digit number for cell 19
122 STO 19
123 LBL 20
124 "20?"
125 PROMPT      ;Enter 3 digit number for cell 20
126 STO 20
127 LBL 21
128 "21?"
129 PROMPT      ;Enter 3 digit number for cell 21
130 STO 21
131 LBL 22
132 "22?"
133 PROMPT      ;Enter 3 digit number for cell 22
134 STO 22
135 LBL 23
136 "23?"
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137 PROMPT      ;Enter 3 digit number for cell 23
138 STO 23
139 LBL 24
140 "24?"
141 PROMPT      ;Enter 3 digit number for cell 24
142 STO 24
143 LBL 25
144 "25?"
145 PROMPT      ;Enter 3 digit number for cell 25
146 STO 25
147 TONE 9
148 LBL "R"      ;Recalculate Work Sheet Totals
149 RCL 01
150 RCL 02
151 +
152 RCL 03
153 +
154 RCL 04
155 +
156 RCL 05
157 +
158 STO 36      ;Total for line 1
159 RCL 06
160 RCL 07
161 +
162 RCL 08
163 +
164 RCL 09
165 +
166 RCL 10
167 +
168 STO 35      ;Total for line 2
169 RCL 11
170 RCL 12
171 +
172 RCL 13
173 +
174 RCL 14
175 +
176 RCL 15
177 +
178 STO 34      ;Total for line 3
179 RCL 16
180 RCL 17
181 +
182 RCL 18
183 +
184 RCL 19
185 +
186 RCL 20
187 +
188 STO 33      ;Total for line 4
189 RCL 21
190 RCL 22
191 +
192 RCL 23
193 +
194 RCL 24
195 +
196 RCL 25
197 +
198 STO 32      ;Total for line 5
199 RCL 01
200 RCL 06
201 +
202 RCL 11
203 +
204 RCL 16
205 +
206 RCL 21

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207 +
208 STO 26      ;Total for column 1
209 RCL 02
210 RCL 07
211 +
212 RCL 12
213 +
214 RCL 17
215 +
216 RCL 22
217 +
218 STO 27      ;Total for column 2
219 RCL 03
220 RCL 08
221 +
222 RCL 13
223 +
224 RCL 18
225 +
226 RCL 23
227 +
228 STO 28      ;Total for column 3
229 RCL 04
230 RCL 09
231 +
232 RCL 14
233 +
234 RCL 19
235 +
236 RCL 24
237 +
238 STO 29      ;Total for column 4
239 RCL 05
240 RCL 10
241 +
242 RCL 15
243 +
244 RCL 20
245 +
246 RCL 25
247 +
248 STO 30      ;Total for column 5
249 RCL 26
250 RCL 27
251 +
252 RCL 28
253 +
254 RCL 29
255 +
256 RCL 30
257 +
258 STO 31      ;Grand Total
259 XEQ "CS"    ;Clear Screen (Line 463)
260 ADV
261 CLA
262 " " "      ;3 spaces
263 ARCL 37      ;Column 1 heading
264 ARCL 00      ;2 spaces
265 ARCL 38      ;Column 2 heading
266 ARCL 00      ;2 spaces
267 ARCL 39      ;Column 3 heading
268 ARCL 00      ;2 spaces
269 ARCL 40      ;Column 4 heading
270 XROM 29,01   ;ACA
271 CLA
272 ARCL 00      ;2 spaces
273 ARCL 41      ;Column 5 heading
274 XROM 29,01   ;ACA
275 " =" "      ;3 spaces, equal sign
276 XROM 29,01   ;ACA

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277 ADV
278 CLA
279 "-----" ;15 dashes
280 XROM 29,01 ;ACA
281 "-----" ;15 dashes
282 XROM 29,01 ;ACA
283 "---" ;2 dashes
284 XROM 29,01 ;ACA
285 CLA
286 ADV
287 ARCL 43 ;Line 1 header
288 ARCL 00 ;2 spaces
289 ARCL 01 ;Cell 1 contents
290 ARCL 00 ;2 spaces
291 ARCL 02 ;Cell 2 contents
292 ARCL 00 ;2 spaces
293 ARCL 03 ;Cell 3 contents
294 ARCL 00 ;2 spaces
295 ARCL 04 ;Cell 4 contents
296 XROM 29,01 ;ACA
297 CLA
298 ARCL 00 ;2 spaces
299 ARCL 05 ;Cell 5 contents
300 ARCL 00 ;2 spaces
301 ARCL 36 ;Line 1 total
302 XROM 29,01 ;ACA
303 ADV
304 ADV
305 CLA
306 ARCL 44 ;Line 2 header
307 ARCL 00 ;2 spaces
308 ARCL 06 ;Cell 6 contents
309 ARCL 00 ;2 spaces
310 ARCL 07 ;Cell 7 contents
311 ARCL 00 ;2 spaces
312 ARCL 08 ;Cell 8 contents
313 ARCL 00 ;2 spaces
314 ARCL 09 ;Cell 9 contents
315 XROM 29,01 ;ACA
316 CLA
317 ARCL 00 ;2 spaces
318 ARCL 10 ;Cell 10 contents
319 ARCL 00 ;2 spaces
320 ARCL 35 ;Line 2 total
321 XROM 29,01 ;ACA
322 ADV
323 ADV
324 CLA
325 ARCL 45 ;Line 3 header
326 ARCL 00 ;2 spaces
327 ARCL 11 ;Cell 11 contents
328 ARCL 00 ;2 spaces
329 ARCL 12 ;Cell 12 contents
330 ARCL 00 ;2 spaces
331 ARCL 13 ;Cell 13 contents
332 ARCL 00 ;2 spaces
333 ARCL 14 ;Cell 14 contents
334 XROM 29,01 ;ACA
335 CLA
336 ARCL 00 ;2 spaces
337 ARCL 15 ;Cell 15 contents
338 ARCL 00 ;2 spaces
339 ARCL 34 ;Line 3 total
340 XROM 29,01 ;ACA
341 ADV
342 ADV
343 CLA
344 ARCL 46 ;Row 4 header
345 ARCL 00 ;2 spaces
346 ARCL 16 ;Cell 16 contents

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347 ARCL 00      ;2 spaces
348 ARCL 17      ;Cell 17 contents
349 ARCL 00      ;2 spaces
350 ARCL 18      ;Cell 18 contents
351 ARCL 00      ;2 spaces
352 ARCL 19      ;Cell 19 contents
353 XROM 29,01   ;ACA
354 CLA
355 ARCL 00      ;2 spaces
356 ARCL 20      ;Cell 20 contents
357 ARCL 00      ;2 spaces
358 ARCL 33      ;Line 4 total
359 XROM 29,01   ;ACA
360 ADV
361 ADV
362 CLA
363 ARCL 47      ;Line 5 header
364 ARCL 00      ;2 spaces
365 ARCL 21      ;Cell 21 contents
366 ARCL 00      ;2 spaces
367 ARCL 22      ;Cell 22 contents
368 ARCL 00      ;2 spaces
369 ARCL 23      ;Cell 23 contents
370 ARCL 00      ;2 spaces
371 ARCL 24      ;Cell 24 contents
372 XROM 29,01   ;ACA
373 CLA
374 ARCL 00      ;2 spaces
375 ARCL 25      ;Cell 25 contents
376 ARCL 00      ;2 spaces
377 ARCL 32      ;Line 5 total
378 XROM 29,01   ;ACA
379 ADV
380 CLA
381 "-----" ;15 dashes
382 XROM 29,01   ;ACA
383 "-----" ;15 dashes
384 XROM 29,01   ;ACA
385 "---" ;2 dashes
386 XROM 29,01   ;ACA
387 CLA
388 ADV
389 ADV
390 "= " ;Equal sign, space
391 ARCL 26      ;Column 1 total
392 ARCL 49      ;1 space
393 ARCL 27      ;Column 2 total
394 ARCL 49      ;1 space
395 ARCL 28      ;Column 3 total
396 ARCL 49      ;1 space
397 ARCL 29      ;Column 4 total
398 XROM 29,01   ;ACA
399 CLA
400 ARCL 49      ;1 space
401 ARCL 30      ;Column 5 total
402 ARCL 49      ;1 space
403 ARCL 31      ;Grand Total
404 XROM 29,01   ;ACA
405 CLA
406 " " ;15 spaces
407 XROM 29,01   ;ACA
408 "===" ;12 spaces, 3 equal signs
409 XROM 29,01   ;ACA
410 "==" ;2 equal signs
411 XROM 29,01   ;ACA
412 1
413 STO 50
414 5
415 STO 51
416 CLX

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417 STOP
418 LBL ">"      ;Horizontal - Change a Row
419 XEQ 00
420 X<>Y
421 LBL 30
422 ST* IND Y
423 ISG Y
424 GTO 30
425 GTO "R"      ;Recalculate Work Sheet Totals (Line 148)
426 LBL 00
427 RCL 51
428 *
429 RCL 50
430 +
431 RCL X
432 RCL 51
433 ST- Z
434 SIGN
435 -
436 1 E3
437 /
438 +
439 RTN
440 LBL "V"      ;Vertical - Change a column
441 XEQ 31
442 X<>Y
443 LBL 32
444 ST* IND Y
445 ISG Y
446 GTO 32
447 GTO "R"      ;Recalculate Work Sheet Totals (Line 148)
448 LBL 31
449 RCL 50
450 +
451 1
452 -
453 STO Z
454 20
455 +
456 1 E3
457 /
458 .00005
459 +
460 RCL Z
461 +
462 RTN
463 LBL "CS"     ;Clear Screen
464 "\1BE\1B<" ;Escape E Escape < = Turn cursor off
465 XROM 28,35 ;OUTA
466 END

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03B0C000F400565753A81BA91D9C001EF24353F220209A00F1
209A31878CFA48454144494E4720413F8E9A25F2423F8E9A26
F2433F8E9A27F2443F8E9A28F2453F8E9A29F42020203D9A2A
F74C494E4520313F8E9A2BF2323F8E9A2CF2333F8E9A2DF234
3F8E9A2EF2353F8E9A2FF33D20209A308B02F743454C4C2031
3F8E3103F2323F8E3204F2333F8E3305F2343F8E3406F2353F
8E3507F2363F8E3608F2373F8E3709F2383F8E380AF2393F8E
390BF331303F8E3A0CF331313F8E3B0DF331323F8E3C0EF331
333F8E3D0FF331343F8E3ECF0FF331353F8E3FCF10F331363F
8E9110CF11F331373F8E9111CF12F331383F8E9112CF13F331
393F8E9113CF14F332303F8E9114CF15F332313F8E9115CF16
F332323F8E9116CF17F332333F8E9117CF18F332343F8E9118
CF19F332353F8E91199F09C000F20052212240234024402540
9124262740284029402A4091232B2C402D402E402F40912290
10901140901240901340901440912190159016409017409018
4090194091202126402B40901040901540911A2227402C4090
1140901640911B2328402D40901240901740911C2429402E40
901340901840911D252A402F40901440901940911E901A901B
40901C40901D40901E40911F1EF243538F87F32020209B259B
009B269B009B279B009B28A741879B009B29A741F42020203D
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2D2D2D2D2D2D2D2D2D2D2D2D2D2D2D2D2DA741F22D2DA741878F9B2B9B
009B019B009B029B009B039B009B04A741879B009B059B009B
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41879B009B0A9B009B23A7418F8F879B2D9B009B0B9B009B0C
9B009B0D9B009B0EA741879B009B0F9B009B22A7418F8F879B
2E9B009B109B009B119B009B129B009B13A741879B009B149B
009B21A7418F8F879B2F9B009B159B009B169B009B179B009B
18A741879B009B199B009B20A7418F87FF2D2D2D2D2D2D2D2D
2D2D2D2D2D2D2D2DA741FF2D2D2D2D2D2D2D2D2D2D2D2D2D
A741F22D2DA741878F8FFF23D209B1A9B319B1B9B319B1C9B31
9B1DA741879B319B1E9B319B1FA74187FF2020202020202020
20202020202020A741FF2020202020202020202020203D3D3D
A741F23D3DA7411191321591337784C000F2003EE0000071CF
1E94F29672D0001E1DF152019033429032409073903393717A
41111B13434085C000F20056E0001F71CF2094F29672D00020
1DF152CF1F90324011419171121040111B13431A1010101015
4090714085C000F3004353F41B451B3CA723C0000DBC

944 BYTES

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Program Registers Needed: 135

Row 1 (1 - 4)



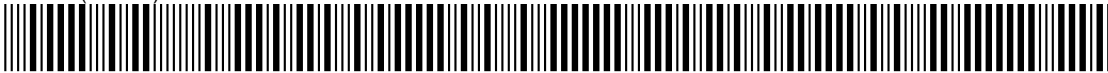
Row 2 (5 - 9)



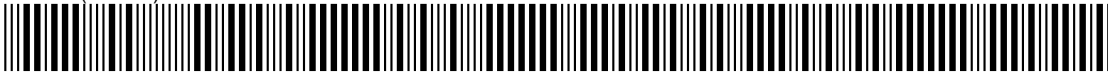
Row 3 (10 - 12)



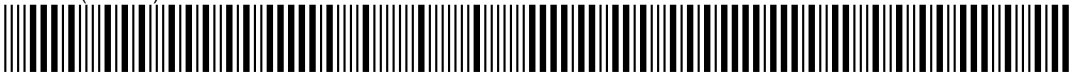
Row 4 (13 - 19)



Row 5 (20 - 26)



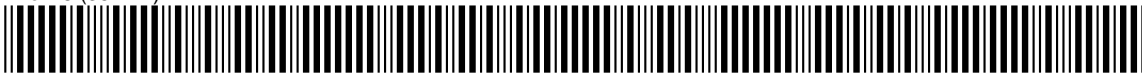
Row 6 (26 - 29)



Row 7 (29 - 35)



Row 8 (35 - 41)



Row 9 (41 - 48)



Row 10 (48 - 52)



Row 11 (53 - 61)



Row 12 (62 - 70)



Row 13 (71 - 79)



Row 14 (80 - 87)



Row 15 (88 - 94)



Row 16 (95 - 101)



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Row 17 (102 - 108)



Row 18 (108 - 114)



Row 19 (114 - 120)



Row 20 (120 - 125)



Row 21 (126 - 131)



Row 22 (132 - 136)



Row 23 (137 - 143)



Row 24 (143 - 148)



Row 25 (148 - 158)



Row 26 (159 - 170)



Row 27 (171 - 180)



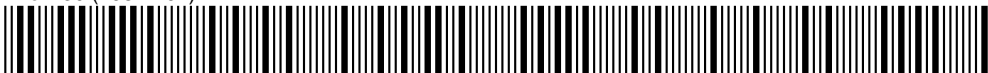
Row 28 (181 - 189)



Row 29 (189 - 197)



Row 30 (198 - 207)



Row 31 (208 - 217)



Row 32 (218 - 227)



Row 33 (228 - 237)



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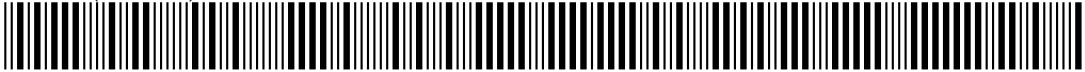
Row 34 (238 - 247)



Row 35 (248 - 255)



Row 36 (256 - 262)



Row 37 (262 - 268)



Row 38 (268 - 275)



Row 39 (275 - 279)



Row 40 (279 - 280)



Row 41 (281)



Row 42 (281 - 287)



Row 43 (287 - 293)



Row 44 (294 - 300)



Row 45 (301 - 308)



Row 46 (309 - 315)



Row 47 (315 - 322)



Row 48 (323 - 330)



Row 49 (330 - 337)



Row 50 (337 - 345)



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Row 51 (345 - 351)



Row 52 (352 - 358)



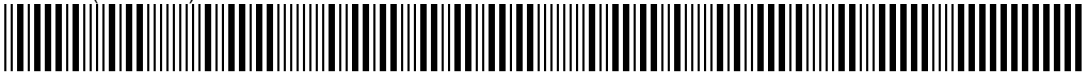
Row 53 (359 - 366)



Row 54 (367 - 373)



Row 55 (374 - 381)



Row 56 (381)



Row 57 (381 - 383)



Row 58 (383 - 386)



Row 59 (386 - 393)



Row 60 (394 - 400)



Row 61 (401 - 406)



Row 62 (406 - 407)



Row 63 (407 - 408)



Row 64 (408 - 413)



Row 65 (413 - 419)



Row 66 (419 - 425)



Row 67 (425 - 433)



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Row 68 (433 - 440)



Row 69 (440 - 446)



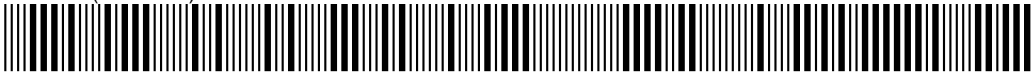
Row 70 (446 - 453)



Row 71 (454 - 458)



Row 72 (459 - 464)



Row 73 (464 - 466)

