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000001 MAKER.PRG v0.2.0a, 7 августа 2022
000002 Компилируем ресурсы МК-261 XS, сохраняя их в файлах GRP и DAT
000003
000004 'Авторское право (с) Васильев Илья Владимирович, г. Москва
000005 'Это свободная программа, защищённая авторским правом
000006 'Распространяется под лицензией GNU GPL v3 или старше
000007
000008 CONST #CORANGE=RGB(254,80,0), #CRED=RGB(224,0,77), #CBBLUE=RGB(0,61,165)
000009 CONST #CGREEN=RGB(84,20,80), #CGOLD=RGB(255,215,0)
000010 CONST #CWHITE=RGB(217,217,214), #CBLACK=RGB(44,42,41)
000011
000012 CONST #CHGEN0=&h00ffffff, #CHGEN1=-1
000013
000014
000015 ACLS:XSCREEN 1280,720,1,1
000016
000017 MkFont
000018 SAVEG "FONT",5
000019
000020 DIM Board$[]
000021 MkBoard
000022 SAVEV "DAT:BOARD",Board$
000023
000024 MkDisplay
000025 MkKeyboardFace
000026 SAVEG "SKIN",0,0,0,1280,720
000027
000028 END
000029
000030
000031 DEF MkDisplay
000032 GBOX 18,18,537,281
000033 GFill 22,22,533,277,#CGREEN
000034 END
000035
000036 DEF DrawLabel2 X,Y,S$,L,C
000037 CASE L
000038 WHEN 1: DX=34:ZX=2:ZY=2:F=16
000039 WHEN 2: DX=10:ZX=1:ZY=2:F=16
000040 WHEN 3: DX=20:ZX=1:ZY=2:F=16
000041 WHEN 4: DX=2:ZX=2:ZY=2:F=16
000042 WHEN 5: DX=20:ZX=1:ZY=4:F=8
000043 ENDCASE
000044 GPUTCHR X+30+DX,20+Y+14,S$,F,ZX,ZY,C,#G_NORMAL2
000045 END
000046
000047
000048 DEF DrawLabel NX,NY,S$,L,C
000049 CASE L
000050 WHEN 1: DX=34:ZX=2:ZY=2:F=16
000051 WHEN 2: DX=10:ZX=1:ZY=2:F=16
000052 WHEN 3: DX=20:ZX=1:ZY=2:F=16
000053 WHEN 4: DX=2:ZX=2:ZY=2:F=16
000054 ENDCASE
000055 GPUTCHR 160*NX+30+DX,320+100*NY+14,S$,F,ZX,ZY,C,#G_NORMAL2
000056 END
000057
000058
000059 DEF DrawLabelF NX,NY,S$,L,C
000060 CASE L
000061 WHEN -1: DX=0
000062 WHEN 0: DX=48
000063 WHEN 1: DX=56
000064 WHEN 2: DX=64
000065 WHEN 3: DX=30
000066 WHEN 4: DX=80
000067 WHEN 5: DX=96
000068 ENDCASE
000069 GPUTCHR 160*NX+DX,300+100*NY,S$,16,C,#G_NORMAL2
000070 END
000071
000072
000073 DEF DrawHEX NX,NY,S$,L
000074 CASE L
000075 WHEN 0: DX=72:DY=80 'Надпись под кнопкой (не используется)
000076 WHEN 1: DX=140:DY=44 'Надпись справа от кнопки
000077 ENDCASE
000078 GPUTCHR 160*NX+DX,300+100*NY+DY,S$,16,#CWHITE,#G_NORMAL2
000079 END
000080
000081
000082 DEF MkKeyboardFace
000083 X=0:Y=300
000084 GFill X+30,Y+20,X+129,Y+79,#CORANGE
000085 FOR Y=400 TO 500 STEP 100
000086 GFill X+30,Y+20,X+129,Y+79,#CBBLUE
000087 NEXT Y
000088 DrawLabel 0,0,"F",1,#CWHITE
000089 DrawLabel 0,1,"X",1,#CWHITE
000090 DrawLabel 0,2,"P",1,#CWHITE
000091
000092 Y=600
000093 GFill X+30,Y+20,X+129,Y+79,#CBLACK
000094 GBOX X+30,Y+20,X+129,Y+79
000095
000096 DrawLabel 0,3,"ГМ",3,#CWHITE
000097
000098 FOR X=160 TO 320 STEP 160
000099 FOR Y=300 TO 600 STEP 100
000100 GFill X+30,Y+20,X+129,Y+79,#CBLACK
000101 GBOX X+30,Y+20,X+129,Y+79
000102 NEXT Y
000103 NEXT X
000104 DrawLabel 1,0,"",3,#CWHITE
000105 DrawLabel 1,1,"",3,#CWHITE
000106 DrawLabel 1,2,"",3,#CWHITE
000107 DrawLabel 1,3,"",3,#CWHITE
000108 DrawLabel 1,4,"",3,#CWHITE
000109 DrawLabel 1,5,"",3,#CWHITE
000110 DrawLabel 1,6,"",3,#CWHITE
000111 DrawLabel 1,7,"",3,#CWHITE
000112 DrawLabel 1,8,"",3,#CWHITE
000113 DrawLabel 1,9,"",3,#CWHITE
000114 DrawLabel 1,10,"",3,#CWHITE
000115 DrawLabel 1,11,"",3,#CWHITE
000116 DrawLabel 1,12,"",3,#CWHITE
000117 DrawLabel 1,13,"",3,#CWHITE
000118 DrawLabel 1,14,"",3,#CWHITE
000119 DrawLabel 1,15,"",3,#CWHITE
000120 DrawLabel 1,16,"",3,#CWHITE
000121
000122 FOR X=480 TO 960 STEP 160
000123 FOR Y=300 TO 600 STEP 100
000124 GFill X+30,Y+20,X+129,Y+79,#CWHITE
000125

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124 GFill X+30,Y+20,X+129,Y+79,#CWHITE
125 NEXT Y
126 NEXT X
127 DrawLabel 1, "7", X+30, Y+20, #CBLACK
128 DrawLabel 1, "4", X+30, Y+20, #CBLACK
129 DrawLabel 1, "1", X+30, Y+20, #CBLACK
130 DrawLabel 1, "0", X+30, Y+20, #CBLACK
131 DrawLabel 1, "0", X+30, Y+20, #CBLACK
132 DrawLabel 1, "0", X+30, Y+20, #CBLACK
133 DrawLabel 1, "0", X+30, Y+20, #CBLACK
134 DrawLabel 1, "0", X+30, Y+20, #CBLACK
135 DrawLabel 1, "0", X+30, Y+20, #CBLACK
136 DrawLabel 1, "0", X+30, Y+20, #CBLACK
137 DrawLabel 1, "0", X+30, Y+20, #CBLACK
138 DrawLabel 1, "0", X+30, Y+20, #CBLACK
139 DrawLabel 1, "0", X+30, Y+20, #CBLACK
140 DrawLabel 1, "0", X+30, Y+20, #CBLACK
141 DrawLabel 1, "0", X+30, Y+20, #CBLACK
142 DrawLabel 1, "0", X+30, Y+20, #CBLACK
143 DrawLabel 1, "0", X+30, Y+20, #CBLACK
144 DrawLabel 1, "0", X+30, Y+20, #CBLACK
145 DrawLabel 1, "0", X+30, Y+20, #CBLACK
146 DrawLabel 1, "0", X+30, Y+20, #CBLACK
147 DrawLabel 1, "0", X+30, Y+20, #CBLACK
148 DrawLabel 1, "0", X+30, Y+20, #CBLACK
149 DrawLabel 1, "0", X+30, Y+20, #CBLACK
150 DrawLabel 1, "0", X+30, Y+20, #CBLACK
151 DrawLabel 1, "0", X+30, Y+20, #CBLACK
152 DrawLabel 1, "0", X+30, Y+20, #CBLACK
153 DrawLabel 1, "0", X+30, Y+20, #CBLACK
154 DrawLabel 1, "0", X+30, Y+20, #CBLACK
155 DrawLabel 1, "0", X+30, Y+20, #CBLACK
156 DrawLabel 1, "0", X+30, Y+20, #CBLACK
157 DrawLabel 1, "0", X+30, Y+20, #CBLACK
158 DrawLabel 1, "0", X+30, Y+20, #CBLACK
159 DrawLabel 1, "0", X+30, Y+20, #CBLACK
160 DrawLabel 1, "0", X+30, Y+20, #CBLACK
161 DrawLabel 1, "0", X+30, Y+20, #CBLACK
162 DrawLabel 1, "0", X+30, Y+20, #CBLACK
163 DrawLabel 1, "0", X+30, Y+20, #CBLACK
164 DrawLabel 1, "0", X+30, Y+20, #CBLACK
165 DrawLabel 1, "0", X+30, Y+20, #CBLACK
166 DrawLabel 1, "0", X+30, Y+20, #CBLACK
167 DrawLabel 1, "0", X+30, Y+20, #CBLACK
168 DrawLabel 1, "0", X+30, Y+20, #CBLACK
169 DrawLabel 1, "0", X+30, Y+20, #CBLACK
170 DrawLabel 1, "0", X+30, Y+20, #CBLACK
171 DrawLabel 1, "0", X+30, Y+20, #CBLACK
172 DrawLabel 1, "0", X+30, Y+20, #CBLACK
173 DrawLabel 1, "0", X+30, Y+20, #CBLACK
174 DrawLabel 1, "0", X+30, Y+20, #CBLACK
175 X=1120
176 FOR Y=300 TO 500 STEP 100
177 GFill X+30,Y+20,X+129,Y+79,#CWHITE
178 NEXT Y
179 Y=600
180 GFill X+30,Y+20,X+129,Y+79,#CRED
181 DrawLabel 1, "L", X+30, Y+20, #CBLACK
182 DrawLabel 1, "A", X+30, Y+20, #CBLACK
183 DrawLabel 1, "C", X+30, Y+20, #CBLACK
184 DrawLabel 1, "O", X+30, Y+20, #CBLACK
185 DrawLabel 1, "R", X+30, Y+20, #CBLACK
186 DrawLabel 1, "A", X+30, Y+20, #CBLACK
187 DrawLabel 1, "N", X+30, Y+20, #CBLACK
188 DrawLabel 1, "G", X+30, Y+20, #CBLACK
189 DrawLabel 1, "E", X+30, Y+20, #CBLACK
190 DrawLabel 1, "E", X+30, Y+20, #CBLACK
191 DrawLabel 1, "E", X+30, Y+20, #CBLACK
192 DrawLabel 1, "E", X+30, Y+20, #CBLACK
193 DrawLabel 1, "E", X+30, Y+20, #CBLACK
194 DrawLabel 1, "E", X+30, Y+20, #CBLACK
195 DrawLabel 1, "E", X+30, Y+20, #CBLACK
196 DrawLabel 1, "E", X+30, Y+20, #CBLACK
197 DrawLabel 1, "E", X+30, Y+20, #CBLACK
198 DrawLabel 1, "E", X+30, Y+20, #CBLACK
199 DrawLabel 1, "E", X+30, Y+20, #CBLACK
200 X=640:Y=25
201 GFill X+30,Y+20,X+129,Y+79,#CBLACK
202 GBOX X+30,Y+20,X+129,Y+79
203 DrawLabel 2, X,Y, "Вкл", 4, #CWHITE
204
205 Y=125
206 GFill X+30,Y+20,X+129,Y+79,#CBLACK
207 GBOX X+30,Y+20,X+129,Y+79
208 DrawLabel 2, X,Y, "Р-ГРД-Г", 5, #CWHITE
209 DrawLabel 2, X,Y, "(X)", 4, #CWHITE
210
211
212 Теперь клавиши ВЫБОРА
213 X=800:Y=75
214 GFill X+30,Y+20,X+129,Y+79,#CWHITE
215 DrawLabel 2, X,Y, "1", #CBLACK
216 Y=175
217 GFill X+30,Y+20,X+129,Y+79,#CBLUE
218 DrawLabel 2, X,Y, "ВЫХОД", 2, #CWHITE
219 X=960:Y=25
220 GFill X+30,Y+20,X+129,Y+79,#CWHITE
221 DrawLabel 2, X,Y, "1", #CBLACK
222 Y=125
223 GFill X+30,Y+20,X+129,Y+79,#CWHITE
224 DrawLabel 2, X,Y, "1", #CBLACK
225 X=1120:Y=75
226 GFill X+30,Y+20,X+129,Y+79,#CWHITE
227 DrawLabel 2, X,Y, "1", #CBLACK
228 Y=175
229 GFill X+30,Y+20,X+129,Y+79,#CBLUE
230 DrawLabel 2, X,Y, "ВВОД", 3, #CWHITE
231 END
232
233
234 Добавить в шрифт литеры ПМК
235 DEF MkFont
236 DIM X,Y,X0,Y0,XC,YC,GL,I,N
237 G5=GARRAY(5)
238
239 READ N
240 FOR I=1 TO N
241 READ XC,YC
242 X0=0+XC*16:Y0=1024+YC*16 ' 16x16
243 READ CS
244 FONTINFO CS,16 OUT X0,Y0
245 FOR X=0 TO 15
246 READ GL
247 FOR Y=0 TO 15
248 IF GL AND 1 THEN G5[Y0+Y,X0+X]=#CHGEN1 ELSE G5[Y0+Y,X0+X]=#CHGEN0

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248 FOR Y=0 TO 15
249 IF GL AND 1 THEN G5[Y0+Y,X0+X]=#CHGEN1 ELSE G5[Y0+Y,X0+X]=#CHGEN0
250 GL=GL>>>1
251 NEXT
252
253 X0=X0+XC*8:Y0=Y0+YC*8 ' 8x8
254 FOR INFO C$=8 OUT X0,Y0
255 FOR X=0 TO 7
256 READ GL
257 FOR Y=0 TO 7
258 IF GL AND 1 THEN G5[Y0+Y,X0+X]=#CHGEN1 ELSE G5[Y0+Y,X0+X]=#CHGEN0
259 GL=GL>>>1
260 NEXT
261 NEXT
262
263 UPDATE 5
264 END
265
266 *Скомпилировать таблицу клавиш и состояний клавиатуры
267 DEF MkBoard
268 DIM Names$,Values$[]
269 DIM A$,N
270 LOOP
271 READ A$
272 IF A$=="ENDB" THEN BREAK
273 IF A$="" THEN
274 PUSH Board$, " "
275 ELSE
276 CASE A$[0]
277 WHEN "№": 'Начало таблицы режима клавиатуры
278 N=VAL(MID$(A$,1))
279 Board$[N]=STR$(LEN(Board$))
280 WHEN "Метка":
281 PUSH Names$,MID$(A$,1)
282 PUSH Values$,STR$(LEN(Board$))
283 WHEN "Ссылка назад":
284 N=FIND(Names$,MID$(A$,1))
285 IF N=-1 THEN STOP 'Метка не найдена: "+A$
286 PUSH Board$,Values$[N]
287 WHEN "Переход назад":
288 N=FIND(Names$,MID$(A$,1))
289 IF N=-1 THEN STOP 'Метка перехода не найдена: "+A$
290 PUSH Board$, "J"+Values$[N]
291 OTHERWISE
292 PUSH Board$,A$
293 ENDCASE
294 ENDIF
295 ENDDO
296
297 *Глифы литер МК-261, отсутствующих в SB4
298 DATA 7 'Количество литер
299 DATA "␣", 6, 12
300 DATA &h0200,&h0200,&h0200,&h0200,&h0200,&h0200,&h0200,' 16x16
301 DATA &h2204,&h2204,&h2204,&h2204,&h2204,&h2204,&h2204,'
302 DATA &h10,&h08,&h3e,&h4a,&h52,&h42,&h42,&h3c,' 8x8
303
304 DATA "<=", 12, 6
305 DATA &h0000,&h0000,&h0000,&h0000,&h0440,&h0440,&h3440,&h0c40,&h0740,' ≠ 16x16
306 DATA &h040c,&h0460,&h0458,&h0458,&h0440,&h0440,&h0000,&h0000,&h0000,'
307 DATA &h00,&h28,&h68,&h38,&h2c,&h28,&h00,&h00,&h00,' ≠ 8x8
308
309 DATA ">=", 62, 8
310 DATA &h0000,&h0000,&h0000,&h0000,&h0000,&h0000,&h8802,&h4404,&h2208,' ≥ 16x16
311 DATA &h1110,&h0000,&h0000,&h0000,&h0000,&h0000,&h0000,&h0000,&h0000,'
312 DATA &h00,&h00,&h0a,&h54,&h28,&h00,&h00,&h00,' ≥ 8x8
313
314 DATA "<~", 39, 3
315 DATA &h0000,&h0000,&h0000,&h0100,&h0200,&h0400,&h0800,&h1000,&h2000,' √ 16x16
316 DATA &h1000,&h0000,&h0000,&h0400,&h0200,&h0100,&h0080,&h0000,&h0000,'
317 DATA &h08,&h10,&h20,&h40,&h20,&h10,&h08,&h00,' √ 8x8
318
319 DATA "Δ", 38, 3
320 DATA &h0000,&h0000,&h0000,&h0000,&h0000,&h0000,&h0000,&h0000,&h0000,' Δ 16x16
321 DATA &h0000,&h0000,&h0000,&h0000,&h0000,&h0000,&h0000,&h0000,&h0000,'
322 DATA &h40,&h20,&h10,&h08,&h10,&h20,&h40,&h00,' Δ 8x8
323
324 DATA "⊙", 9, 12
325 DATA &h0000,&h0000,&h0000,&h0380,&h0c60,&h1010,&h1110,&h2108,&h27c8,' ⊙ 16x16
326 DATA &h2108,&h1110,&h1010,&h0c60,&h0380,&h0000,&h0000,&h0000,&h0000,'
327 DATA &h38,&h44,&h92,&hba,&h92,&h44,&h38,&h00,' ⊙ 8x8
328
329 DATA "×", 44, 7
330 DATA &h0000,&h0000,&h0000,&h0000,&h0000,&h0081,&h0042,&h0024,&h0018,' × 16x16
331 DATA &h0024,&h0042,&h0081,&h0000,&h0000,&h0000,&h0000,&h0000,'
332 DATA &h00,&h00,&h09,&h06,&h09,&h00,&h00,&h00,' × 8x8
333
334 DATA "ʹ", 44, 8
335 DATA &h0000,&h0000,&h0000,&h0000,&h0000,&h0007,&h0088,&h0088,&h0088,' ʹ 16x16
336 DATA &h007f,&h0000,&h0000,&h0000,&h0000,&h0000,&h0000,&h0000,&h0000,'
337 DATA &h00,&h00,&h0b,&h0a,&h07,&h00,&h00,' ʹ 8x8
338
339 *Клавиши МК-261 и их назначения в разных раскладках
340 DATA "№0.", МК-261, "выключен"
341 DATA "№1.", Режим автоматической работы
342 DATA "№2.", Режим программирования
343 DATA "№3.", Режим счета по программе
344 DATA "№4.", Режим шестнадцатеричного редактирования
345 DATA "№5.", Клавиша F нажата в режимах АВТ, ПРГ
346 DATA "№6.", Клавиша K нажата в режимах АВТ, ПРГ
347 DATA "№7.", Клавиша R нажата в режимах АВТ, ПРГ
348 DATA "№8.", Префикс РК в режимах АВТ, ПРГ
349 DATA "№9.", Клавиша F, R нажата в режиме HEX
350 DATA "№10.", Шестнадцатеричный ввод в режимах АВТ, ПРГ и HEX
351 DATA "№11.", Префикс КБП, (К)ИП/П и Т.п. в режимах АВТ, ПРГ
352 DATA "№12.", БП XXXX в режимах АВТ, ПРГ
353 DATA "№13.", БП XXXX в режимах АВТ, ПРГ
354 DATA "№14.", БП XXXX в режимах АВТ, ПРГ
355 DATA "№15.", БП XXXX в режимах АВТ, ПРГ
356
357 DATA "XXXXXX", "XXXXXXXXXXXX", "NNNNNNNNNNND", 1
358 DATA "XXXXXX", "XXXXXXXXXXXX", "NNNNNNNNNNND", 2
359 DATA "XXXXXX", "XXXXXXXXXXXX", "NNNNNNNNNNND", 3
360 DATA "XXXXXX", "XXXXXXXXXXXX", "NNNNNNNNNNND", 4
361 DATA "XXXXXX", "XXXXXXXXXXXX", "NNNNNNNNNNND", 5
362 DATA "XXXXXX", "XXXXXXXXXXXX", "NNNNNNNNNNND", 6

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