

MASAKARI-The Holy Axe-Textual-Sidekick



MASAKARI_Vanilla.BAS:

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00,001 ' Masakari.bas, written in QB64 v1.5 by Kaze (sanmayce@sanmayce.com), 2021-Mar-03
00,002 ' Many thanks go to Galleon, also thanks go to the www.qb64.org/forum members for sharing useful excerpts/etudes
00,003
00,004 ' Note #1: For wrapping set the flag 'wrapFlag = 1' or 'wrapFlag = 0' for vanilla.
00,005 ' 'MASAKARI_General-Purpose_Grade_English_wordlist.wrd' is the unigram i.e. wordlist to be used here.
00,006
00,007 Const RSHIFTkey& = 100303
00,008 Const LSHIFTkey& = 100304
00,009 Const RCTRLkey& = 100305
00,010 Const LCTRLkey& = 100306
00,011 Const RALTkey& = 100307
00,012 Const LALTkey& = 100308
00,013
00,014 Const BACKSPkey& = 8
00,015 Const TABkey& = 9
00,016 Const SPACEkey& = 32
00,017 Const ESCkey& = 27
00,018 Const ENTERkey& = 13
00,019
00,020 Const HOMEkey& = 18176
00,021 Const ENDkey& = 20224
00,022
00,023 Const INSkey& = 20992
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00,024 Const DELkey& = 21248
00,025
00,026 Const PGUPkey& = 18688
00,027 Const PGDNkey& = 20736
00,028
00,029 Const LEFTkey& = 19200
00,030 Const RIGHTkey& = 19712
00,031 Const UPkey& = 18432
00,032 Const DOWNkey& = 20480
00,033
00,034 Dim Shared ToLoadOrNotFlag As Integer ' Global flag, if 1 then load the entire file - use it to speed up parsing. Set to 0 if you want to load bigger files, slow it is.
00,035 Dim Shared WrapFlag As Integer
00,036
00,037 WrapFlag = 0 ' 1 means wrapping; 0 means vanilla
00,038 ToLoadOrNotFlag = 0 ' Should be 0; OLD: 1 means fast load but memory greedy; 0 means slow load but memory efficient
00,039
00,040 If InStr(LCase$(Command$), "/help") Or InStr(LCase$(Command$), "-h") Then
00,041     $ScreenHide
00,042     $Console
00,043     _Console On
00,044     _ConsoleTitle "Masakari console window"
00,045     _Dest _Console
00,046
00,047     Print "
00,048     Print "M I G K E C I K K C I F I I F I C V O E I I"
00,049     Print "
00,050     Print "M I G K E C I K K C I F I I F I C V O E I I"
00,051     Print "M I G K E C I K K C I F I I F I C V O E I I"
00,052     Print "M I G K E C I K K C I F I I F I C V O E I I"
00,053     Print
00,054
00,055     '
00,056     '
00,057     '
00,058     '
00,059     '
00,060     '
00,061     '
00,062     '
00,063     '
00,064     '
00,065     '
00,066     '
00,067     '
00,068     '
00,069     '
00,070     '
00,071     '
00,072     '
00,073     '
00,074     '
00,075     '
00,076     '
00,077     '
00,078     '
00,079     '
00,080     '
00,081     '
00,082     '
00,083     '
00,084     '
00,085     '
00,086     '
00,087     '
00,088     '
00,089     '
00,090     '
00,091     '
00,092     '
00,093     '
00,094     '
00,095     '
00,096     '
00,097     '
00,098     '
00,099     '
00,100     '
00,101     '
00,102     '
00,103     '
00,104     '
00,105     '
00,106     '
00,107     '
00,108     '
00,109     '
00,110     '
00,111     '
00,112     '
00,113     '
00,114     '
00,115     '
00,116     '
00,117     '
00,118     '
00,119     '
00,120     '
00,121     '
00,122     '
00,123     '

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00,224 ' CASE "m"
00,225 ' IF volumeINT% <= 8 THEN volumeINT% = volumeINT% + 1 ' don't go 100% but up to 90%
00,226 ' _SNDVOL s&, volumeINT% / 10
00,227 ' CASE "p"
00,228 ' _SNDPAUSE s&
00,229 ' CASE " "
00,230 ' _SNDPLAY s&
00,231 ' CASE CHR$(27)
00,232 ' _SNDSTOP s&
00,233 ' _SNDCLOSE s&
00,234 ' StopFlag = 1
00,235 ' END SELECT
00,236 ' LOCATE 1, 1
00,237 ' IF StopFlag = 0 THEN PRINT "Volume: "; volumeINT%; "; Position: "; INT(_SNDGETPOS(s&)); "second, up to"; INT(_SNDLEN(s&))
00,238 ' LOOP UNTIL StopFlag
00,239 'END IF
00,240 '' SOUND PLAYER ]
00,241
00,242 'spell [
00,243 Dim lfixed As String * 32
00,244 Totalwrld& = 0
00,245 Open PSPlike$ + "masakari.ind" For Binary As #2
00,246 If LOF(2) Then
00,247 Totalwrld& = LOF(2) / 32
00,248 Close #2
00,249 Else
00,250 Close #2
00,251 Kill PSPlike$ + "masakari.ind"
00,252 Open PSPlike$ + "masakari.wrd" For Binary As #2
00,253 If LOF(2) Then
00,254 Close #2
00,255 Open PSPlike$ + "masakari.wrd" For Input As #1
00,256 Open PSPlike$ + "masakari.ind" For Random Access Write As #2 Len = 32
00,257 Do While Not EOF(1)
00,258 Line Input #1, l$
00,259 lfixed$ = l$
00,260 Put #2, , lfixed$: Totalwrld& = Totalwrld& + 1
00,261 FL2wrld& = 1
00,262 Loop
00,263 Close #1, #2
00,264 Else
00,265 Close #2
00,266 Kill PSPlike$ + "masakari.wrd"
00,267 End If
00,268 End If
00,269 'spell ]
00,270
00,271 GoTo SkipFontReviews
00,272 'SCREEN 0 'It is better to define your own mode, as:
00,273 handle& = _NewImage(40, 20, 0)
00,274 Screen handle&
00,275 _Dest handle&
00,276
00,277 '_FONT _LOADFONT("C:\windows\fonts\cour.ttf", 32, "MONOSPACE")
00,278 '_FONT _LOADFONT("C:\windows\fonts\lucon.ttf", 32, "MONOSPACE")
00,279 '_FONT _LOADFONT("C:\windows\fonts\MxPlus_Cordata_PPC-400.ttf", 32, "MONOSPACE")
00,280 '_FONT _LOADFONT("C:\windows\fonts\MxPlus_ToshibaTxL2_8x16.ttf", 32, "MONOSPACE")
00,281 _Font _LoadFont(PSPlike$ + "MxPlus_ToshibaTxL2_8x16.ttf", 32, "MONOSPACE")
00,282
00,283 'RESTORE Microsoft_pc_cp437 'United States MS DOS
00,284 'RESTORE Microsoft_windows_cp1250 'WINDOWS in Central European and Eastern European languages that use Latin script, such as Polish, Czech, Slovak, Hungarian, Slovene, Bosnian, Croatian,
Serbian (Latin script), Romanian and Albanian. It may also be used with the German language.
00,285 'RESTORE Microsoft_windows_cp1251 'Cyrillic alphabet such as Russian, Bulgarian, Serbian Cyrillic and other languages. It is the most widely used for encoding the Bulgarian, Serbian and
Macedonian languages.
00,286 'RESTORE Microsoft_pc_cpMIK 'Cyrillic Bulgarian Pravetz 16 for MS-DOS
00,287 Restore Microsoft_pc_cpGESCH 'My codepage a.k.a. Gesch
00,288
00,289 For ASCIIcode = 128 To 255
00,290 Read unicode
00,291 _MapUnicode unicode To ASCIIcode
00,292 Next
00,293
00,294 For i = 0 To 255
00,295 Print Chr$(i) + " ";
00,296 cnt = cnt + 1
00,297 If cnt Mod 16 = 0 Then Print: Print cnt;
00,298 Next
00,299 End
00,300
00,301 Microsoft_pc_cp737: 'Greek MS DOS displays Greek alphabet for algebraic formulas.
00,302 Data 913,914,915,916,917,918,919,920,921,922,923,924,925,926,927,928
00,303 Data 929,931,932,933,934,935,936,937,945,946,947,948,949,950,951,952
00,304 Data 953,954,955,956,957,958,959,960,961,963,962,964,965,966,967,968
00,305 Data 9617,9618,9619,9474,9508,9569,9570,9558,9557,9571,9553,9559,9565,9564,9563,9488
00,306 Data 9492,9524,9516,9500,9472,9532,9566,9567,9562,9556,9577,9574,9568,9552,9580,9575
00,307 Data 9576,9572,9573,9561,9560,9554,9555,9579,9578,9496,9484,9608,9604,9612,9616,9600
00,308 Data 969,940,941,942,970,943,972,973,971,974,902,904,905,906,908,910
00,309 Data 911,177,8805,8804,938,939,247,8776,176,8729,183,8730,8319,178,9632,160
00,310
00,311 Microsoft_pc_cp775: 'Estonian, Lithuanian and Latvian languages.
00,312 Data 262,252,233,257,228,291,229,263,322,275,342,343,299,377,196,197
00,313 Data 201,230,198,333,246,290,162,346,347,214,220,248,163,216,215,164
00,314 Data 256,298,243,379,380,378,8221,166,169,174,172,189,188,321,171,187
00,315 Data 9617,9618,9619,9474,9508,260,268,280,278,9571,9553,9559,9565,302,352,9488
00,316 Data 9492,9524,9516,9500,9472,9532,370,362,9562,9556,9577,9574,9568,9552,9580,381
00,317 Data 261,269,281,279,303,353,371,363,382,9496,9484,9608,9604,9612,9616,9600
00,318 Data 211,223,332,323,245,213,181,324,310,311,315,316,326,274,325,8217
00,319 Data 173,177,8220,190,182,167,247,8222,176,8729,183,185,179,178,9632,160
00,320
00,321 Microsoft_pc_cp850: 'western Europe, Spain, England

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00,322 Data 199,252,233,226,228,224,229,231,234,235,232,239,238,236,196,197
00,323 Data 201,230,198,244,246,242,251,249,255,214,220,248,163,216,215,402
00,324 Data 225,237,243,250,241,209,170,186,191,174,172,189,188,161,171,187
00,325 Data 9617,9618,9619,9474,9508,193,194,192,169,9571,9553,9559,9565,162,165,9488
00,326 Data 9492,9524,9516,9500,9472,9532,227,195,9562,9556,9577,9574,9568,9552,9580,164
00,327 Data 240,208,202,203,200,305,205,206,207,9496,9484,9608,9604,166,204,9600
00,328 Data 211,223,212,210,245,213,181,254,222,218,219,217,253,221,175,180
00,329 Data 173,177,8215,190,182,167,247,184,176,168,183,185,179,178,9632,160
00,330
00,331 Microsoft_pc_cp852: 'Central European languages that use Latin script such as Bosnian, Croatian, Czech, Hungarian, Polish, Romanian, Serbian or Slovak.
00,332 Data 199,252,233,226,228,367,263,231,322,235,336,337,238,377,196,262
00,333 Data 201,313,314,244,246,317,318,346,347,214,220,356,357,321,215,269
00,334 Data 225,237,243,250,260,261,381,382,280,281,172,378,268,351,171,187
00,335 Data 9617,9618,9619,9474,9508,193,194,282,350,9571,9553,9559,9565,379,380,9488
00,336 Data 9492,9524,9516,9500,9472,9532,258,259,9562,9556,9577,9574,9568,9552,9580,164
00,337 Data 273,272,270,203,271,327,205,206,283,9496,9484,9608,9604,354,366,9600
00,338 Data 211,223,212,323,324,328,352,353,340,218,341,368,253,221,355,180
00,339 Data 173,733,731,711,728,167,247,184,176,168,729,369,344,345,9632,160
00,340
00,341 Microsoft_pc_cp855: 'Cyrillic code page to be used under MS-DOS
00,342 Data 1106,1026,1107,1027,1105,1025,1108,1028,1109,1029,1110,1030,1111,1031,1112,1032
00,343 Data 1113,1033,1114,1034,1115,1035,1116,1036,1118,1038,1119,1039,1102,1070,1098,1066
00,344 Data 1072,1040,1073,1041,1094,1062,1076,1044,1077,1045,1092,1060,1075,1043,171,187
00,345 Data 9617,9618,9619,9474,9508,1093,1061,1080,1048,9571,9553,9559,9565,1081,1049,9488
00,346 Data 9492,9524,9516,9500,9472,9532,1082,1050,9562,9556,9577,9574,9568,9552,9580,164
00,347 Data 1083,1051,1084,1052,1085,1053,1086,1054,1087,9496,9484,9608,9604,1055,1103,9600
00,348 Data 1071,1088,1056,1089,1057,1090,1058,1091,1059,1078,1046,1074,1042,1100,1068,8470
00,349 Data 173,1099,1067,1079,1047,1096,1064,1101,1069,1097,1065,1095,1063,167,9632,160
00,350
00,351 Microsoft_pc_cp857: 'Turkish MS DOS
00,352 Data 199,252,233,226,228,224,229,231,234,235,232,239,238,305,196,197
00,353 Data 201,230,198,244,246,242,251,249,304,214,220,248,163,216,350,351
00,354 Data 225,237,243,250,241,209,286,287,191,174,172,189,188,161,171,187
00,355 Data 9617,9618,9619,9474,9508,193,194,192,169,9571,9553,9559,9565,162,165,9488
00,356 Data 9492,9524,9516,9500,9472,9532,227,195,9562,9556,9577,9574,9568,9552,9580,164
00,357 Data 186,170,202,203,200,0,205,206,207,9496,9484,9608,9604,166,204,9600
00,358 Data 211,223,212,210,245,213,181,0,215,218,219,217,236,255,175,180
00,359 Data 173,177,0,190,182,167,247,184,176,168,183,185,179,178,9632,160
00,360
00,361 Microsoft_pc_cp860: 'Portuguese language. MS DOS
00,362 Data 199,252,233,226,227,224,193,231,234,202,232,205,212,236,195,194
00,363 Data 201,192,200,244,245,242,218,249,204,213,220,162,163,217,8359,211
00,364 Data 225,237,243,250,241,209,170,186,191,210,172,189,188,161,171,187
00,365 Data 9617,9618,9619,9474,9508,9569,9570,9558,9557,9571,9553,9559,9565,9564,9563,9488
00,366 Data 9492,9524,9516,9500,9472,9532,9566,9567,9562,9556,9577,9574,9568,9552,9580,9575
00,367 Data 9576,9572,9573,9561,9560,9554,9555,9579,9578,9496,9484,9608,9604,9612,9616,9600
00,368 Data 945,223,915,960,931,963,181,964,934,920,937,948,8734,966,949,8745
00,369 Data 8801,177,8805,8804,8992,8993,247,8776,176,8729,183,8730,8319,178,9632,160
00,370
00,371 Microsoft_pc_cp861: 'Icelandic language (as well as other Nordic languages). MS DOS
00,372 Data 199,252,233,226,228,224,229,231,234,235,232,208,240,222,196,197
00,373 Data 201,230,198,244,246,254,251,221,253,214,220,248,163,216,8359,402
00,374 Data 225,237,243,250,193,205,211,218,191,8976,172,189,188,161,171,187
00,375 Data 9617,9618,9619,9474,9508,9569,9570,9558,9557,9571,9553,9559,9565,9564,9563,9488
00,376 Data 9492,9524,9516,9500,9472,9532,9566,9567,9562,9556,9577,9574,9568,9552,9580,9575
00,377 Data 9576,9572,9573,9561,9560,9554,9555,9579,9578,9496,9484,9608,9604,9612,9616,9600
00,378 Data 945,223,915,960,931,963,181,964,934,920,937,948,8734,966,949,8745
00,379 Data 8801,177,8805,8804,8992,8993,247,8776,176,8729,183,8730,8319,178,9632,160
00,380
00,381 Microsoft_pc_cp862: 'Hebrew letters in positions 809A hex, but otherwise it is identical to CP437. Now obsolete, see CP1255
00,382 Data 1488,1489,1490,1491,1492,1493,1494,1495,1496,1497,1498,1499,1500,1501,1502,1503
00,383 Data 1504,1505,1506,1507,1508,1509,1510,1511,1512,1513,1514,162,163,165,8359,402
00,384 Data 225,237,243,250,241,209,170,186,191,8976,172,189,188,161,171,187
00,385 Data 9617,9618,9619,9474,9508,9569,9570,9558,9557,9571,9553,9559,9565,9564,9563,9488
00,386 Data 9492,9524,9516,9500,9472,9532,9566,9567,9562,9556,9577,9574,9568,9552,9580,9575
00,387 Data 9576,9572,9573,9561,9560,9554,9555,9579,9578,9496,9484,9608,9604,9612,9616,9600
00,388 Data 945,223,915,960,931,963,181,964,934,920,937,948,8734,966,949,8745
00,389 Data 8801,177,8805,8804,8992,8993,247,8776,176,8729,183,8730,8319,178,9632,160
00,390
00,391 Microsoft_pc_cp863: 'French language (mainly in Canada). MS DOS
00,392 Data 199,252,233,226,194,224,182,231,234,235,232,239,238,8215,192,167
00,393 Data 201,200,202,244,203,207,251,249,164,212,220,162,163,217,219,402
00,394 Data 166,180,243,250,168,184,179,175,206,8976,172,189,188,190,171,187
00,395 Data 9617,9618,9619,9474,9508,9569,9570,9558,9557,9571,9553,9559,9565,9564,9563,9488
00,396 Data 9492,9524,9516,9500,9472,9532,9566,9567,9562,9556,9577,9574,9568,9552,9580,9575
00,397 Data 9576,9572,9573,9561,9560,9554,9555,9579,9578,9496,9484,9608,9604,9612,9616,9600
00,398 Data 945,223,915,960,931,963,181,964,934,920,937,948,8734,966,949,8745
00,399 Data 8801,177,8805,8804,8992,8993,247,8776,176,8729,183,8730,8319,178,9632,160
00,400
00,401 Microsoft_pc_cp864: 'Arabic MS DOS
00,402 Data 176,183,8729,8730,9618,9472,9474,9532,9508,9516,9500,9524,9488,9484,9492,9496
00,403 Data 946,8734,966,177,189,188,8776,171,187,65271,65272,0,0,65275,65276,0
00,404 Data 160,173,65154,163,164,65156,0,0,65166,65167,65173,65177,1548,65181,65185,65189
00,405 Data 1632,1633,1634,1635,1636,1637,1638,1639,1640,1641,65233,1563,65201,65205,65209,1567
00,406 Data 162,65152,65153,65155,65157,65226,65163,65165,65169,65171,65175,65179,65183,65187,65191,65193
00,407 Data 65195,65197,65199,65203,65207,65211,65215,65217,65221,65227,65231,166,172,247,215,65225
00,408 Data 1600,65235,65239,65243,65247,65251,65255,65259,65261,65263,65267,65213,65228,65230,65229,65249
00,409 Data 65149,1617,65253,65257,65260,65264,65266,65232,65237,65269,65270,65245,65241,65265,9632,0
00,410
00,411 Microsoft_pc_cp865: 'Nordic languages (except Icelandic, for which CP861 is used). MS DOS
00,412 Data 199,252,233,226,228,224,229,231,234,235,232,239,238,236,196,197
00,413 Data 201,230,198,244,246,242,251,249,255,214,220,248,163,216,8359,402
00,414 Data 225,237,243,250,241,209,170,186,191,8976,172,189,188,161,171,164
00,415 Data 9617,9618,9619,9474,9508,9569,9570,9558,9557,9571,9553,9559,9565,9564,9563,9488
00,416 Data 9492,9524,9516,9500,9472,9532,9566,9567,9562,9556,9577,9574,9568,9552,9580,9575
00,417 Data 9576,9572,9573,9561,9560,9554,9555,9579,9578,9496,9484,9608,9604,9612,9616,9600
00,418 Data 945,223,915,960,931,963,181,964,934,920,937,948,8734,966,949,8745
00,419 Data 8801,177,8805,8804,8992,8993,247,8776,176,8729,183,8730,8319,178,9632,160
00,420
00,421 Microsoft_pc_cp866: 'Cyrillic alphabetical order code page to be used with MS-DOS

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00,422 Data 1040,1041,1042,1043,1044,1045,1046,1047,1048,1049,1050,1051,1052,1053,1054,1055
00,423 Data 1056,1057,1058,1059,1060,1061,1062,1063,1064,1065,1066,1067,1068,1069,1070,1071
00,424 Data 1072,1073,1074,1075,1076,1077,1078,1079,1080,1081,1082,1083,1084,1085,1086,1087
00,425 Data 9617,9618,9619,9474,9508,9569,9570,9558,9557,9571,9553,9559,9565,9564,9563,9488
00,426 Data 9492,9524,9516,9500,9472,9532,9566,9567,9562,9556,9577,9574,9568,9552,9580,9575
00,427 Data 9576,9572,9573,9561,9560,9554,9555,9579,9578,9496,9484,9608,9604,9612,9616,9600
00,428 Data 1088,1089,1090,1091,1092,1093,1094,1095,1096,1097,1098,1099,1100,1101,1102,1103
00,429 Data 1025,1105,1028,1108,1031,1111,1038,1118,176,8729,183,8730,8470,164,9632,160
00,430
00,431 Microsoft_pc_cp869: 'Greek MS DOS. Less popular than Code page 737
00,432 Data 0,0,0,0,0,0,902,0,183,172,166,8216,8217,904,8213,905
00,433 Data 906,938,908,0,0,910,939,169,911,178,179,940,163,941,942,943
00,434 Data 970,912,972,973,913,914,915,916,917,918,919,189,920,921,171,187
00,435 Data 9617,9618,9619,9474,9508,922,923,924,925,9571,9553,9559,9565,926,927,9488
00,436 Data 9492,9524,9516,9500,9472,9532,928,929,9562,9556,9577,9574,9568,9552,9580,931
00,437 Data 932,933,934,935,936,937,945,946,947,9496,9484,9608,9604,948,949,9600
00,438 Data 950,951,952,953,954,955,956,957,958,959,960,961,963,962,964,900
00,439 Data 173,177,965,966,967,167,968,901,176,168,969,971,944,974,9632,160
00,440
00,441 Microsoft_pc_cp874: 'Thai MS DOS and windows
00,442 Data 8364,0,0,0,0,8230,0,0,0,0,0,0,0,0,0
00,443 Data 0,8216,8217,8220,8221,8226,8211,8212,0,0,0,0,0,0,0,0
00,444 Data 160,3585,3586,3587,3588,3589,3590,3591,3592,3593,3594,3595,3596,3597,3598,3599
00,445 Data 3600,3601,3602,3603,3604,3605,3606,3607,3608,3609,3610,3611,3612,3613,3614,3615
00,446 Data 3616,3617,3618,3619,3620,3621,3622,3623,3624,3625,3626,3627,3628,3629,3630,3631
00,447 Data 3632,3633,3634,3635,3636,3637,3638,3639,3640,3641,3642,0,0,0,0,3647
00,448 Data 3648,3649,3650,3651,3652,3653,3654,3655,3656,3657,3658,3659,3660,3661,3662,3663
00,449 Data 3664,3665,3666,3667,3668,3669,3670,3671,3672,3673,3674,3675,0,0,0,0
00,450
00,451 Microsoft_windows_cp1250: 'WINDOWS in Central European and Eastern European languages that use Latin script, such as Polish, Czech, Slovak, Hungarian, Slovene, Bosnian, Croatian, Serbian (Latin script), Romanian and Albanian. It may also be used with the German language.
00,452 Data 8364,0,8218,0,8222,8230,8224,8225,0,8240,352,8249,346,356,381,377
00,453 Data 0,8216,8217,8220,8221,8226,8211,8212,0,8482,353,8250,347,357,382,378
00,454 Data 160,711,728,321,164,260,166,167,168,169,350,171,172,173,174,379
00,455 Data 176,177,731,322,180,181,182,183,184,261,351,187,317,733,318,380
00,456 Data 340,193,194,258,196,313,262,199,268,201,280,203,282,205,206,270
00,457 Data 272,323,327,211,212,336,214,215,344,366,218,368,220,221,354,223
00,458 Data 341,225,226,259,228,314,263,231,269,233,281,235,283,237,238,271
00,459 Data 273,324,328,243,244,337,246,247,345,367,250,369,252,253,355,729
00,460
00,461 Microsoft_windows_cp1252: 'Windows Western languages with Latin alphabet, used by default in the legacy components of Microsoft Windows in English.
00,462 Data 8364,0,8218,402,8222,8230,8224,8225,710,8240,352,8249,338,0,381,0
00,463 Data 0,8216,8217,8220,8221,8226,8211,8212,732,8482,353,8250,339,0,382,376
00,464 Data 160,161,162,163,164,165,166,167,168,169,170,171,172,173,174,175
00,465 Data 176,177,178,179,180,181,182,183,184,185,186,187,188,189,190,191
00,466 Data 192,193,194,195,196,197,198,199,200,201,202,203,204,205,206,207
00,467 Data 208,209,210,211,212,213,214,215,216,217,218,219,220,221,222,223
00,468 Data 224,225,226,227,228,229,230,231,232,233,234,235,236,237,238,239
00,469 Data 240,241,242,243,244,245,246,247,248,249,250,251,252,253,254,255
00,470
00,471 Microsoft_windows_cp1253: 'Greek (but not polytonic Greek) Not fully compatible with ISO 8859-7 (? is located differently).
00,472 Data 8364,0,8218,402,8222,8230,8224,8225,710,8240,0,8249,0,0,0,0
00,473 Data 0,8216,8217,8220,8221,8226,8211,8212,0,8482,0,8250,0,0,0,0
00,474 Data 160,901,902,163,164,165,166,167,168,169,0,171,172,173,174,8213
00,475 Data 176,177,178,179,900,181,182,183,904,905,906,187,908,189,910,911
00,476 Data 912,913,914,915,916,917,918,919,920,921,922,923,924,925,926,927
00,477 Data 928,929,0,931,932,933,934,935,936,937,938,939,940,941,942,943
00,478 Data 944,945,946,947,948,949,950,951,952,953,954,955,956,957,958,959
00,479 Data 960,961,962,963,964,965,966,967,968,969,970,971,972,973,974,0
00,480
00,481 Microsoft_windows_cp1254: 'Turkish
00,482 Data 8364,0,8218,402,8222,8230,8224,8225,710,8240,352,8249,338,0,0,0
00,483 Data 0,8216,8217,8220,8221,8226,8211,8212,732,8482,353,8250,339,0,0,376
00,484 Data 160,161,162,163,164,165,166,167,168,169,170,171,172,173,174,175
00,485 Data 176,177,178,179,180,181,182,183,184,185,186,187,188,189,190,191
00,486 Data 192,193,194,195,196,197,198,199,200,201,202,203,204,205,206,207
00,487 Data 286,209,210,211,212,213,214,215,216,217,218,219,220,304,350,223
00,488 Data 224,225,226,227,228,229,230,231,232,233,234,235,236,237,238,239
00,489 Data 287,241,242,243,244,245,246,247,248,249,250,251,252,305,351,255
00,490
00,491 Microsoft_windows_cp1255: 'Hebrew windows. Modern applications prefer [https://en.wikipedia.org/wiki/UTF-8 UTF-8] or UTF-16 http://www.fileformat.info/info/charset/UTF-16/list.htm to windows 1255.
00,492 Data 8364,0,8218,402,8222,8230,8224,8225,710,8240,0,8249,0,0,0,0
00,493 Data 0,8216,8217,8220,8221,8226,8211,8212,732,8482,0,8250,0,0,0,0
00,494 Data 160,161,162,163,8362,165,166,167,168,169,215,171,172,173,174,175
00,495 Data 176,177,178,179,180,181,182,183,184,185,247,187,188,189,190,191
00,496 Data 1456,1457,1458,1459,1460,1461,1462,1463,1464,1465,0,1467,1468,1469,1470,1471
00,497 Data 1472,1473,1474,1475,1520,1521,1522,1523,1524,0,0,0,0,0,0
00,498 Data 1488,1489,1490,1491,1492,1493,1494,1495,1496,1497,1498,1499,1500,1501,1502,1503
00,499 Data 1504,1505,1506,1507,1508,1509,1510,1511,1512,1513,1514,0,0,8206,8207,0
00,500
00,501 Microsoft_windows_cp1256: 'Arabic Latin windows
00,502 Data 8364,1662,8218,402,8222,8230,8224,8225,710,8240,1657,8249,338,1670,1688,1672
00,503 Data 1711,8216,8217,8220,8221,8226,8211,8212,1705,8482,1681,8250,339,8204,8205,1722
00,504 Data 160,1548,162,163,164,165,166,167,168,169,1726,171,172,173,174,175
00,505 Data 176,177,178,179,180,181,182,183,184,185,1563,187,188,189,190,1567
00,506 Data 1729,1569,1570,1571,1572,1573,1574,1575,1576,1577,1578,1579,1580,1581,1582,1583
00,507 Data 1584,1585,1586,1587,1588,1589,1590,215,1591,1592,1593,1594,1600,1601,1602,1603
00,508 Data 224,1604,226,1605,1606,1607,1608,231,232,233,234,235,1609,1610,238,239
00,509 Data 1611,1612,1613,1614,244,1615,1616,247,1617,249,1618,251,252,8206,8207,1746
00,510
00,511 Microsoft_windows_cp1257: 'Estonian (although that can also be written with windows-1252), Latvian and Lithuanian languages under Microsoft Windows. It is also possible to write Polish and German.
00,512 Data 8364,0,8218,0,8222,8230,8224,8225,0,8240,0,8249,0,168,711,184
00,513 Data 0,8216,8217,8220,8221,8226,8211,8212,0,8482,0,8250,0,175,731,0
00,514 Data 160,0,162,163,164,0,166,167,216,169,342,171,172,173,174,198
00,515 Data 176,177,178,179,180,181,182,183,248,185,343,187,188,189,190,230
00,516 Data 260,302,256,262,196,197,280,274,268,201,377,278,290,310,298,315
00,517 Data 352,323,325,211,332,213,214,215,370,321,346,362,220,379,381,223
00,518 Data 261,303,257,263,228,229,281,275,269,233,378,279,291,311,299,316

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00,519 Data 353,324,326,243,333,245,246,247,371,322,347,363,252,380,382,729
00,520
00,521 Microsoft_windows_cp1258: 'Vietnamese. [https://en.wikipedia.org/wiki/UTF-8 UTF-8] is the preferred encoding for Vietnamese in modern applications.
00,522 Data 8364,0,8218,402,8222,8230,8224,8225,710,8240,0,8249,338,0,0,0
00,523 Data 0,8216,8217,8220,8221,8226,8211,8212,732,8482,0,8250,339,0,0,376
00,524 Data 160,161,162,163,164,165,166,167,168,169,170,171,172,173,174,175
00,525 Data 176,177,178,179,180,181,182,183,184,185,186,187,188,189,190,191
00,526 Data 192,193,194,258,196,197,198,199,200,201,202,203,768,205,206,207
00,527 Data 272,209,777,211,212,416,214,215,216,217,218,219,220,431,771,223
00,528 Data 224,225,226,259,228,229,230,231,232,233,234,235,769,237,238,239
00,529 Data 273,241,803,243,244,417,246,247,248,249,250,251,252,432,8363,255
00,530
00,531 Microsoft_pc_cp437: 'United States MS DOS
00,532 Data 199,252,233,226,228,224,229,231,234,235,232,239,238,236,196,197
00,533 Data 201,230,198,244,246,242,251,249,255,214,220,162,163,165,8359,402
00,534 Data 225,237,243,250,241,209,170,186,191,8976,172,189,188,161,171,187
00,535 Data 9617,9618,9619,9474,9508,9569,9570,9558,9557,9571,9553,9559,9565,9564,9563,9488
00,536 Data 9492,9524,9516,9500,9472,9532,9566,9567,9562,9556,9577,9574,9568,9552,9580,9575
00,537 Data 9576,9572,9573,9561,9560,9554,9555,9579,9578,9496,9484,9608,9604,9612,9616,9600
00,538 Data 945,223,915,960,931,963,181,964,934,920,937,948,8734,966,949,8745
00,539 Data 8801,177,8805,8804,8992,8993,247,8776,176,8729,183,8730,8319,178,9632,160
00,540
00,541 Microsoft_windows_cp1251: 'Cyrillic alphabet such as Russian, Bulgarian, Serbian Cyrillic and other languages. It is the most widely used for encoding the Bulgarian, Serbian and
Macedonian languages.
00,542 Data 1026,1027,8218,1107,8222,8230,8224,8225,8364,8240,1033,8249,1034,1036,1035,1039
00,543 Data 1106,8216,8217,8220,8221,8226,8211,8212,0,8482,1113,8250,1114,1116,1115,1119
00,544 Data 160,1038,1118,1032,164,1168,166,167,1025,169,1028,171,172,173,174,1031
00,545 Data 176,177,1030,1110,1169,181,182,183,1105,8470,1108,187,1112,1029,1109,1111
00,546 Data 1040,1041,1042,1043,1044,1045,1046,1047,1048,1049,1050,1051,1052,1053,1054,1055
00,547 Data 1056,1057,1058,1059,1060,1061,1062,1063,1064,1065,1066,1067,1068,1069,1070,1071
00,548 Data 1072,1073,1074,1075,1076,1077,1078,1079,1080,1081,1082,1083,1084,1085,1086,1087
00,549 Data 1088,1089,1090,1091,1092,1093,1094,1095,1096,1097,1098,1099,1100,1101,1102,1103
00,550
00,551 Microsoft_pc_cpMIK: 'Cyrillic Bulgarian Pravetz 16 for MS-DOS
00,552 Data 1040,1041,1042,1043,1044,1045,1046,1047,1048,1049,1050,1051,1052,1053,1054,1055
00,553 Data 1056,1057,1058,1059,1060,1061,1062,1063,1064,1065,1066,1067,1068,1069,1070,1071
00,554 Data 1072,1073,1074,1075,1076,1077,1078,1079,1080,1081,1082,1083,1084,1085,1086,1087
00,555 Data 1088,1089,1090,1091,1092,1093,1094,1095,1096,1097,1098,1099,1100,1101,1102,1103
00,556 Data 9492,9524,9516,9500,9472,9532,9571,9553,9562,9566,9577,9574,9568,9552,9580,9488
00,557 Data 9617,9618,9619,9474,9508,8470,167,9559,9565,9496,9484,9608,9604,9612,9616,9600
00,558 Data 945,223,915,960,931,963,181,964,934,920,937,948,8734,966,949,8745
00,559 Data 8801,177,8805,8804,8992,8993,247,8776,176,8729,183,8730,8319,178,9632,160
00,560
00,561 Microsoft_pc_cpGESCH: 'Gesch is Sanmayce's layout, combining the MIK and 437, in this way:
00,562 'First half of big Cyrillic letters:
00,563 Data 1040,1041,1042,1043,1044,1045,1046,1047,1048,1049,1050,1051,1052,1053,1054,1055
00,564 'Second half of big Cyrillic letters:
00,565 Data 1056,1057,1058,1059,1060,1061,1062,1063,1064,1065,1066,1067,1068,1069,1070,1071
00,566 'First half of small Cyrillic letters:
00,567 Data 1072,1073,1074,1075,1076,1077,1078,1079,1080,1081,1082,1083,1084,1085,1086,1087
00,568 '1st third of CP437 drawing symbols:
00,569 Data 9617,9618,9619,9474,9508,9569,9570,9558,9557,9571,9553,9559,9565,9564,9563,9488
00,570 '2nd third of CP437 drawing symbols:
00,571 Data 9492,9524,9516,9500,9472,9532,9566,9567,9562,9556,9577,9574,9568,9552,9580,9575
00,572 '3rd third of CP437 drawing symbols:
00,573 Data 9576,9572,9573,9561,9560,9554,9555,9579,9578,9496,9484,9608,9604,9612,9616,9600
00,574 'Second half of small Cyrillic letters:
00,575 Data 1088,1089,1090,1091,1092,1093,1094,1095,1096,1097,1098,1099,1100,1101,1102,1103
00,576 'Last 16 of CP437 symbols:
00,577 '
u-kr E: e: << >> Up_ ...
00,578 Data 8216,8217,8218,8219,8220,8221,8222,8223,176,1118,1025,1105,171,187,175,8230
00,579
00,580 SkipFontReviews:
00,581 handle& = _NewImage(xdimCOL + IndigoField, YdimROW + 1, 0)
00,582 Screen handle&
00,583 _Dest handle&
00,584
00,585 ' _DEST 0 refers to the present program SCREEN. You can use 0 to refer to the present program
00,586 ' SCREEN.
00,587
00,588 ' _FONT 16 'wish we could use the old 8x16 bitmap/raster fonts from DOS times...
00,589
00,590 'Let's think for people using 4K, then 32px is to be used. Now, 128col x 8 = 1024 (fits well in 1680x) or 198col x 8 = 1584 (fits well in FHD)
00,591 'IF _FILEEXISTS("C:\windows\fonts\MxPlus_ToshibaTxL2_8x16.ttf") = 0 THEN
00,592 If _FileExists(PSPLike$ + "MxPlus_ToshibaTxL2_8x16.ttf") = 0 Then
00,593 If Mode4K = 0 Then
00,594 ' _FONT _LOADFONT(PSPLike$ + "cour.ttf", 14, "MONOSPACE") ' 8x14 is not bad at all!
00,595 ' _FONT _LOADFONT(PSPLike$ + "cour.ttf", 16, "MONOSPACE")
00,596 ' _FONT _LOADFONT(PSPLike$ + "lucon.ttf", 14, "MONOSPACE") ' 8x14 is not bad at all!
00,597 ' _FONT _LOADFONT(PSPLike$ + "lucon.ttf", 16, "MONOSPACE")
00,598 'If not a single line is uncommented, above, then the EMULATED (Trident?) font is in use.
00,599 Else
00,600 ' _FONT _LOADFONT(PSPLike$ + "cour.ttf", 32, "MONOSPACE")
00,601 ' _Font _LoadFont(PSPLike$ + "lucon.ttf", 32, "MONOSPACE")
00,602 'If not a single line is uncommented, above, then the EMULATED (Trident?) font is in use.
00,603 End If
00,604 Else
00,605 If Mode4K = 0 Then
00,606 ' _Font _LoadFont(PSPLike$ + "MxPlus_ToshibaTxL2_8x16.ttf", 16, "MONOSPACE") 'Toshiba rules...
00,607 ' _FONT _LOADFONT(PSPLike$ + "MxPlus_Cordata_PPC-400.ttf", 16, "MONOSPACE") 'Beautiful, yet the '2' has a missing dot - up-right
00,608 Else
00,609 ' _Font _LoadFont(PSPLike$ + "MxPlus_ToshibaTxL2_8x16.ttf", 32, "MONOSPACE")
00,610 ' _FONT _LOADFONT(PSPLike$ + "MxPlus_Cordata_PPC-400.ttf", 32, "MONOSPACE")
00,611 End If
00,612 End If
00,613 Restore Microsoft_pc_cpGESCH 'My codepage a.k.a. Gesch
00,614 'RESTORE Microsoft_windows_cp1251
00,615 For ASCIIcode = 128 To 255
00,616 Read unicode
00,617 _MapUnicode unicode To ASCIIcode

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00,618 Next
00,619
00,620 ' Either one must be uncommented:
00,621 _Display
00,622 '_AUTODISPLAY 'no need of refreshing
00,623
00,624 PurpleFlag = 0
00,625
00,626 NormalFRGr = 3
00,627 If PurpleFlag Then NormalFRGr = 9
00,628 NormalBCKGr = 0
00,629 If PurpleFlag Then NormalBCKGr = 0
00,630
00,631 InverseFRGr = 0
00,632 If PurpleFlag Then InverseFRGr = 8
00,633 InverseBCKGr = 3
00,634 If PurpleFlag Then InverseBCKGr = 0
00,635
00,636 Color NormalFRGr, NormalBCKGr
00,637
00,638 Print "
00,639 Print "
00,640 Print "
00,641 Print "
00,642 Print "
00,643 Print "
00,644 Print
00,645
00,646 $If WINDOWS Then
00,647     i = 0
00,648     DO
00,649         i = i + 1
00,650         setting$ = ENVIRON$(i) ' get a setting from the list
00,651         IF INSTR(setting$, "NUMBER_OF_PROCESSORS") THEN NUMBER_OF_PROCESSORS$ = setting$
00,652         LOOP UNTIL setting$ = ""
00,653         PRINT NUMBER_OF_PROCESSORS$
00,654
00,655         ' For some reason the Drag-and-Drop stops working when running as Administrator?! [
00,656         'c$ = ENVIRON$("ALLUSERSPROFILE") 'try desktop for all users
00,657         'SHORTCUTS = c$ + "\Desktop\" + "Masakari.log.txt" 'create filename for the desktop
00,658         ' For some reason the Drag-and-Drop stops working when running as Administrator?! ]
00,659         SHORTCUT$ = _STARTDIR$ + "\" + "Masakari.log.txt"
00,660         OPEN SHORTCUT$ FOR APPEND AS #13
00,661         PRINT #13,
00,662         PRINT #13, "[Written on DATE: " + DATE$ + ", TIME: " + TIME$ + "]:"
00,663         PRINT #13,
00,664         'CLOSE #13
00,665         PRINT "The log/output file, opened in APPEND mode: "; CHR$(34); SHORTCUT$; CHR$(34)
00,666     $End If
00,667
00,668     'f = FREEFILE
00,669     'SHELL _HIDE "cd > PRGMDIR.INF" 'get the current program path
00,670     'OPEN "PRGMDIR.INF" FOR INPUT AS #f
00,671     'LINE INPUT #f, current_program_path$
00,672     'CLOSE #f
00,673     'KILL "PRGMDIR.INF"
00,674     'PRINT "Current working directory path (obtained via SHELL _HIDE): "; CHR$(34); current_program_path$; CHR$(34)
00,675
00,676     'ugh, they are reversed?!
00,677     'PRINT "Current working directory path: "; CHR$(34); _CWD$; CHR$(34)
00,678     'PRINT "User's program calling path: "; CHR$(34); _STARTDIR$; CHR$(34)
00,679     Print "Current working directory path: "; Chr$(34); _StartDir$; Chr$(34)
00,680     Print "User's program calling path: "; Chr$(34); _CWD$; Chr$(34)
00,681     'PRINT "Command line parameters sent when a program is started: "; CHR$(34); COMMAND$; CHR$(34)
00,682     'PRINT "_OS$="; _OS$
00,683
00,684     'Lazy me, in order to avoid editing the existing r.3+ code FileArray$() became function, array no more!
00,685     Dim FileArrayWINDOW$(YdimROW)
00,686
00,687     $If WINDOWS Then
00,688         _ACCEPTFILEDROP 'enables drag/drop functionality
00,689         IF COMMAND$ = "" THEN PRINT: PRINT "Drag files from a folder and drop them in this window... May press Alt+X or Alt+Q to exit/quit..."
00,690     $End If
00,691
00,692     _Display
00,693
00,694     a$ = ""
00,695     PostfixedToHeader = CsrLin
00,696     Do
00,697
00,698         Locate PostfixedToHeader, 1
00,699
00,700         'FOR d = 1 TO _DEVICES 'number of input devices found
00,701         ' dev$ = _DEVICES$(d)
00,702         ' IF INSTR(dev$, "[MOUSE]") THEN buttons = _LASTBUTTON(d): wheels = _LASTWHEEL(d): EXIT FOR
00,703         'NEXT
00,704         'PRINT
00,705         'PRINT "Mouse Buttons: "; buttons
00,706         'PRINT "Mouse wheels: "; wheels
00,707         'd = _DEVICES ' always read number of devices to enable device input
00,708         'DO WHILE _DEVICEINPUT(2) 'loop only runs during a device 2 mouse event
00,709         'LOOP
00,710
00,711         $If WINDOWS Then
00,712             ' MEMUSAGE by Steve [
00,713             ' GetCPULoad = 0 is idle, 1 is fully used.
00,714             ' Multiply by 100 for a percentage
00,715             PRINT
00,716             PRINT "CPU used: "; LTRIM$(STR$(INT((GetCPULoad * 10000) / 100))); "%"; SPACE$(18)
00,717             PRINT "Memory used: "; LTRIM$(STR$(MemInUsePercent)); "%"; SPACE$(18)

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00,718 PRINT "Total Physical Memory: ";: PRINT AddCommas$(TotalPhysicalMem); " bytes"; SPACE$(18)
00,719 PRINT "Free Physical Memory: ";: PRINT AddCommas$(FreePhysicalMem); " bytes"; SPACE$(18)
00,720 PRINT "Total Paging File: ";: PRINT AddCommas$(TotalPagingFile); " bytes"; SPACE$(18)
00,721 PRINT "Free Paging File: ";: PRINT AddCommas$(FreePagingFile); " bytes"; SPACE$(18)
00,722 PRINT "Total Virtual Memory: ";: PRINT AddCommas$(TotalVirtualMem); " bytes"; SPACE$(18)
00,723 PRINT "Free Virtual Memory: ";: PRINT AddCommas$(FreeVirtualMem); " bytes"; SPACE$(18)
00,724 ' MEMUSAGE by Steve ]
00,725 $End If
00,726
00,727 'IF COMMAND$ = "" THEN PRINT: PRINT "May press Alt+X or Alt+Q to exit/Quit..."
00,728 ReturnCOMBO
00,729
00,730 If YdimROW = 60 Then
00,731 cryFrame = CsrLin
00,732 NextFrame cryFrame + 1
00,733 Locate cryFrame, 1
00,734 End If
00,735
00,736 _Display
00,737
00,738 $If WINDOWS Then
00,739 IF _TOTALDROPPEDFILES THEN
00,740 'FOR i = 1 TO _TOTALDROPPEDFILES
00,741 'a$ = _DROPPEDFILE(i)
00,742 a$ = _DROPPEDFILE(1)
00,743 'NEXT
00,744 _FINISHDROP 'If _FINISHDROP isn't called here then _TOTALDROPPEDFILES never gets reset.
00,745 'ELSE
00,746 'a$ = "Scroller.$$$"
00,747 'SHELL _HIDE "DIR /B *.* > Scroller.$$$"
00,748 END IF
00,749 $End If
00,750 $If WINDOWS Then
00,751 IF COMMAND$ <> "" THEN a$ = _STARTDIR$ + "\" + COMMAND$
00,752 $Else
00,753 If Command$ <> "" Then a$ = _StartDir$ + "/" + Command$
00,754 $End If
00,755
00,756 'WrapFlag = 0
00,757 'wwidth% = XdimCOL
00,758 'u1& = 0
00,759 'LongestLine = 0
00,760 'DO WHILE NOT EOF(1)
00,761 ' LINE INPUT #1, l$: u1& = u1& + 1
00,762 ' ExpandTabs l$
00,763 ' IF LEN(l$) > LongestLine THEN LongestLine = LEN(l$)
00,764 ' IF WrapFlag THEN
00,765 ' lx$ = l$
00,766 ' DO WHILE LEN(lx$) > wwidth%
00,767 ' Glupak% = wwidth%
00,768 ' DO UNTIL MID$(lx$, Glupak% + 1, 1) = " " AND MID$(lx$, Glupak%, 1) <> " "
00,769 ' Glupak% = Glupak% - 1
00,770 ' IF Glupak% = 0 THEN
00,771 ' PRINT "Rejecting line(#); LTRIM$(STR$(u1&)); ", "; LTRIM$(STR$(LEN(l$))); "chars that cannot be wrapped!"
00,772 ' _DISPLAY: SYSTEM
00,773 ' GOTO B4Txpanar
00,774 ' END IF
00,775 ' LOOP
00,776 ' PRINT #3, LEFT$(lx$, Glupak%)
00,777 ' lx$ = STRING$(1, " ") + LTRIM$(MID$(lx$, Glupak% + 1, LEN(lx$) - (Glupak%))
00,778 ' LOOP
00,779 ' PRINT #3, lx$
00,780 ' B4Txpanar:
00,781 ' END IF
00,782 'LOOP
00,783
00,784 SecondTime = 1
00,785 GettingStarted:
00,786
00,787 If WrapFlag = 1 Then
00,788 'Creating the wrapped temporary file [
00,789 If _FileExists(a$ + ".wrapped") = 0 Then
00,790 If _FileExists(a$) Then
00,791 If SecondTime <> 2 Then Print: Print "Writing wrapped variant..."
00,792 PostfixedToHeader = CsrLin
00,793
00,794 StatuLine$ = Space$(XdimCOL)
00,795 Mid$(StatuLine$, 1, 1) = "["
00,796 Mid$(StatuLine$, XdimCOL, 1) = "]"
00,797
00,798 _Display
00,799 Open a$ For Binary As #1
00,800 Open a$ + ".wrapped" For Output As #3
00,801 Open a$ + ".unwrappable" For Output As #2
00,802 LongestLine = 0
00,803 UnwrappableLines = 0
00,804 FileSize = LOF(1)
00,805 If FileSize Then
00,806 ChunkBeingOneUnit = FileSize \ (XdimCOL - 1 - 1) + 1: LastPercentage = 0
00,807 NumberOfLFs = 0
00,808 wwidth% = XdimCOL
00,809 u1& = 0
00,810 ReadBytes = 0
00,811 Do While Not EOF(1)
00,812 Line Input #1, l$: u1& = u1& + 1: ReadBytes = ReadBytes + LEN(l$)
00,813 ExpandTabs l$
00,814 If LEN(l$) > LongestLine Then LongestLine = LEN(l$)
00,815 If WrapFlag Then
00,816 ' Firstly do the wrapping virtually (in order to avoid writing some wrapped chunks and encounter unwrappable chunk) - we need either a wrapped line (in its
entirety) or none:

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00,817 AssumeLineIsWrappable = 1
00,818 lX$ = l$
00,819 Do While Len(lX$) > wwidth%
00,820 Glupak% = wwidth%
00,821 Do 'UNTIL (MID$(lX$, Glupak% + 1, 1) = " " OR MID$(lX$, Glupak% + 1, 1) = "\" OR MID$(lX$, Glupak% + 1, 1) = "/" OR MID$(lX$, Glupak% + 1, 1) = "_" OR
MID$(lX$, Glupak% + 1, 1) = ";" OR MID$(lX$, Glupak% + 1, 1) = ",") AND MID$(lX$, Glupak%, 1) <> "
00,822 InvokeOnce$ = Mid$(lX$, Glupak% + 1, 1)
00,823 If Instr("\_.,-|+%=:", InvokeOnce$) And Mid$(lX$, Glupak%, 1) <> " " Then Exit Do
00,824 'IF (InvokeOnce$ = " " OR InvokeOnce$ = "\" OR InvokeOnce$ = "/" OR InvokeOnce$ = "_" OR InvokeOnce$ = ";" OR InvokeOnce$ = "," OR InvokeOnce$ = ".
OR InvokeOnce$ = "-" OR InvokeOnce$ = "|") OR InvokeOnce$ = "+" OR InvokeOnce$ = "%") AND MID$(lX$, Glupak%, 1) <> " " THEN EXIT DO
00,825 Glupak% = Glupak% - 1
00,826 If Glupak% = 0 Then
00,827 AssumeLineIsWrappable = 0
00,828 GoTo B4TxpanarVIRTUAL
00,829 End If
00,830 Loop
00,831 lX$ = LTrim$(Mid$(lX$, Glupak% + 1, Len(lX$) - (Glupak%)))
00,832 Loop
00,833 B4TxpanarVIRTUAL:
00,834 If AssumeLineIsWrappable = 1 Then
00,835 lX$ = l$
00,836 Do While Len(lX$) > wwidth%
00,837 Glupak% = wwidth%
00,838 Do 'UNTIL (MID$(lX$, Glupak% + 1, 1) = " " OR MID$(lX$, Glupak% + 1, 1) = "\" OR MID$(lX$, Glupak% + 1, 1) = "/" OR MID$(lX$, Glupak% + 1, 1) = "_" OR
MID$(lX$, Glupak% + 1, 1) = ";" OR MID$(lX$, Glupak% + 1, 1) = ",") AND MID$(lX$, Glupak%, 1) <> "
00,839 InvokeOnce$ = Mid$(lX$, Glupak% + 1, 1)
00,840 If Instr("\_.,-|+%=:", InvokeOnce$) And Mid$(lX$, Glupak%, 1) <> " " Then Exit Do
00,841 'IF (InvokeOnce$ = " " OR InvokeOnce$ = "\" OR InvokeOnce$ = "/" OR InvokeOnce$ = "_" OR InvokeOnce$ = ";" OR InvokeOnce$ = "," OR InvokeOnce$ = ".
" OR InvokeOnce$ = "-" OR InvokeOnce$ = "|") OR InvokeOnce$ = "+" OR InvokeOnce$ = "%") AND MID$(lX$, Glupak%, 1) <> " " THEN EXIT DO
00,842 Glupak% = Glupak% - 1
00,843 If Glupak% = 0 Then
00,844 Print "Rejecting line(#"; LTrim$(Str$(u1&)); ", "; LTrim$(Str$(Len(l$))); "chars) that cannot be wrapped!"
00,845 Close #1, #3: Kill a$ + ".wrapped"
00,846 _Display: End
00,847 GoTo B4Txpanar
00,848 End If
00,849 Loop
00,850 Print #3, Left$(lX$, Glupak%)
00,851 lX$ = STRING$(1, " ") + LTRIM$(MID$(lX$, Glupak% + 1, LEN(lX$) - (Glupak%)))
00,852 lX$ = LTrim$(Mid$(lX$, Glupak% + 1, Len(lX$) - (Glupak%)))
00,853 Loop
00,854 Print #3, lX$
00,855 B4Txpanar:
00,856 Else
00,857 Print #2, l$: UnwrappableLines = UnwrappableLines + 1
00,858 End If
00,859 End If
00,860 If (ReadBytes \ ChunkBeingOneUnit) > LastPercentage Then
00,861 LastPercentage = LastPercentage + 1 ' in range 1..(XdimCOL-1)
00,862 Mid$(StatuLine$, 2, LastPercentage) = String$(LastPercentage, Chr$(176))
00,863 Locate YdimROW + 1, 1: Color 9, 0: Print StatuLine$;
00,864 _Display
00,865 End If
00,866 Loop
00,867 Else
00,868 Close #1 'when filesize is 0
00,869 System
00,870 End If 'IF FileSize THEN
00,871 Close #1, #3
00,872 a$ = a$ + ".wrapped"
00,873 Locate PostfixedToHeader, 1
00,874 Color NormalFRGr, NormalBCKGr
00,875 End If
00,876 Else
00,877 a$ = a$ + ".wrapped"
00,878 End If
00,879 'Creating the wrapped temporary file ]
00,880 End If
00,881
00,882 TimeA = Timer
00,883
00,884 ' Below fragment is r.4+ with 64bit pointers... to external/internal RAM!
00,885 ' On i5-7200u, SSD Kingston 256GB it loads OED in ????.??? seconds, respectively.
00,886 If _FileExists(a$) Then
00,887 If SecondTime <> 2 Then Print: Print "Loading...": Print
00,888
00,889 PostfixedToHeader = CsrLin
00,890
00,891 StatuLine$ = Space$(XdimCOL)
00,892 Mid$(StatuLine$, 1, 1) = "["
00,893 Mid$(StatuLine$, XdimCOL, 1) = "]"
00,894
00,895 _Display
00,896 Open a$ For Binary As #1
00,897 LongestLine = 0
00,898 FileSize = LOF(1)
00,899 If FileSize Then
00,900 ChunkBeingOneUnit = FileSize \ (XdimCOL - 1 - 1) + 1: LastPercentage = 0
00,901 NumberOfLFs = 0
00,902 If ToLoadOrNotFlag Then
00,903 MwholeFile = _MemNew(FileSize + 1)
00,904 'TheWholeFile$ = SPACE$(FileSize + 1) ' Grmb1, this comes with limitation probably 2GB, which prompts for buffered e.g. 128KB approach as my old LinewordReporter.c tool.
00,905 'GET #1, , TheWholeFile$
00,906 ReadBytes = 0 ' Have to load the 2+GB "malloc" in chunks...
00,907 chunk128KB$ = Space$(128 * 1024 * 1024)
00,908 Do While ReadBytes + (128 * 1024 * 1024) < FileSize
00,909 Get #1, , chunk128KB$
00,910 i = 1
00,911 Do While i <= (128 * 1024 * 1024)
00,912 i = Instr(i, chunk128KB$, Chr$(10))

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00,913         If i = 0 Then Exit Do
00,914         NumberOfLFs = NumberOfLFs + 1
00,915         i = i + 1
00,916     Loop
00,917     'FOR i = 1 TO LEN(chunk128KB$)
00,918     ' IF MID$(chunk128KB$, i, 1) = CHR$(10) THEN NumberOfLFs = NumberOfLFs + 1 ' Boost it with INSTR...
00,919     'NEXT i
00,920     _MemPut Mwholefile, Mwholefile.OFFSET + ReadBytes, chunk128KB$
00,921     ReadBytes = ReadBytes + (128 * 1024 * 1024)
00,922 Loop
00,923 If (FileSize - ReadBytes) Then
00,924     RemainingChunk$ = Space$(FileSize - ReadBytes)
00,925     Get #1, , RemainingChunk$
00,926     i = 1
00,927     Do While i <= Len(RemainingChunk$)
00,928         i = Instr(i, RemainingChunk$, Chr$(10))
00,929         If i = 0 Then Exit Do
00,930         NumberOfLFs = NumberOfLFs + 1
00,931         i = i + 1
00,932     Loop
00,933     'FOR i = 1 TO LEN(RemainingChunk$)
00,934     ' IF MID$(RemainingChunk$, i, 1) = CHR$(10) THEN NumberOfLFs = NumberOfLFs + 1 ' Boost it with INSTR...
00,935     'NEXT i
00,936     _MemPut Mwholefile, Mwholefile.OFFSET + ReadBytes, RemainingChunk$
00,937 End If
00,938 End If
00,939 'Bugfix from 2021-Jan-29, inhere problem exists, in efficient mode we don't know 'NumberOfLFs' therefore should read-it-without-loading-it:
00,940 If ToLoadOrNotFlag = 0 Then
00,941     ReadBytes = 0 ' Have to load the 2+GB "malloc" in chunks...
00,942     chunk128KB$ = Space$(128 * 1024 * 1024)
00,943     Do While ReadBytes + (128 * 1024 * 1024) < FileSize
00,944         Get #1, , chunk128KB$
00,945         i = 1
00,946         Do While i <= (128 * 1024 * 1024)
00,947             i = Instr(i, chunk128KB$, Chr$(10))
00,948             If i = 0 Then Exit Do
00,949             NumberOfLFs = NumberOfLFs + 1
00,950             i = i + 1
00,951         Loop
00,952         ReadBytes = ReadBytes + (128 * 1024 * 1024)
00,953     Loop
00,954     If (FileSize - ReadBytes) Then
00,955         RemainingChunk$ = Space$(FileSize - ReadBytes)
00,956         Get #1, , RemainingChunk$
00,957         i = 1
00,958         Do While i <= Len(RemainingChunk$)
00,959             i = Instr(i, RemainingChunk$, Chr$(10))
00,960             If i = 0 Then Exit Do
00,961             NumberOfLFs = NumberOfLFs + 1
00,962             i = i + 1
00,963         Loop
00,964     End If
00,965 End If
00,966 Seek #1, 1
00,967 'IF ASC(Byte) < 32 AND Byte <> CHR$(10) AND Byte <> CHR$(13) AND Byte <> CHR$(9) THEN Byte = CHR$(32)
00,968 filecount = 0
00,969 'ugh, buggy, in r.5 below two "malloc" lines should be using 'NumberOfLFs' not 'FileSize'...
00,970 MhandleOFF = _MemNew(8&& * (NumberOfLFs + 1)) 'create new memory block of 8*NumberOfLFs bytes - each line has its own 64bit Offset
00,971 MhandleLEN = _MemNew(8&& * (NumberOfLFs + 1)) 'create new memory block of 8*NumberOfLFs bytes - each line has its own 64bit Length, kinda overkill, could be 32bit
00,972
00,973 ' Parser for r.6 [[[
00,974     LineLen13 = 0
00,975     Byte = ""
00,976     'Caution: Many files DON'T end with CRLF, or LF or CR - kinda the last line is not always postfixed correctly!
00,977     'This means if after the last CRLF, or LF or CR there is at least one byte then the number of total lines should be +1
00,978     FOR j = 1 TO FileSize + 1
00,979
00,980         IF (j \ ChunkBeingOneUnit) > LastPercentage THEN
00,981             LastPercentage = LastPercentage + 1 'in range 1..(xdimCOL-1)
00,982             MIDS(StatuLine$, 2, LastPercentage) = STRING$(LastPercentage, CHR$(176))
00,983             LOCATE YdimROW + 1, 1: COLOR 9, 0: PRINT StatuLine$;
00,984             _DISPLAY
00,985         END IF
00,986
00,987         PrevByte = Byte
00,988         IF j <= FileSize THEN
00,989             IF ToLoadOrNotFlag THEN
00,990                 'Byte = MID$(TheWholeFile$, j, 1)
00,991                 _MEMGET Mwholefile, Mwholefile.OFFSET + (j - 1), Byte
00,992             ELSE
00,993                 GET #1, , Byte
00,994             END IF
00,995         ELSE
00,996             Byte = ""
00,997             IF PrevByte <> CHR$(10) THEN Byte = CHR$(10) ' enforce last line to be postfixed ONLY if last char was not LF
00,998         END IF
00,999         QWORD = j
01,000         IF Byte = CHR$(10) THEN 'For now, won't work for MacOS...
01,001             QWORD = QWORD - LineLen13 'have to write the current offset minus the length of the line
01,002             _MEMPUT MhandleOFF, MhandleOFF.OFFSET + 8&& * filecount, QWORD
01,003             IF PrevByte = CHR$(13) THEN LineLen13 = LineLen13 - 1
01,004             _MEMPUT MhandleLEN, MhandleLEN.OFFSET + 8&& * filecount, LineLen13
01,005             IF LineLen13 > LongestLine THEN LongestLine = LineLen13
01,006             LineLen13 = 0
01,007             filecount = filecount + 1
01,008         ELSE
01,009             LineLen13 = LineLen13 + 1
01,010         END IF
01,011     NEXT j
01,012 ' Parser for r.6 ]]]

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01,013 ' Parser for r.7 [ [ [ [ [ [
01,014 If ToLoaderNotFlag = 0 Then
01,015   ReadBytes = 0 ' Have to load the 2+GB "malloc" in chunks...
01,016   ChunkLen = 128 * 1024
01,017   chunk128KB$ = Space$(ChunkLen) '+1 for sentinel
01,018   j = 1 ' is the current offset where new GET reads
01,019   QWORDlast = 1
01,020   PrevByte = ""
01,021   Do while ReadBytes + (ChunkLen) < FileSize ' this '<' is important, on purpose not using '<=' since there should be a remnant chunk (where LF postfixing is enforced,
01,022 eventually)
01,023
01,024   If (j \ ChunkBeingOneUnit) > LastPercentage Then
01,025
01,026     If SecondTime <> 2 Then
01,027       $If WINDOWS Then
01,028         LOCATE PostfixedToHeader, 1
01,029         ' MEMUSAGE by Steve [
01,030         ' GetCPULoad = 0 is idle, 1 is fully used.
01,031         ' Multiply by 100 for a percentage
01,032         PRINT "CPU used: "; LTRIM$(STR$(INT((GetCPULoad * 10000) / 100))); "%"; SPACES(18)
01,033         PRINT "Memory used: "; LTRIM$(STR$(MemInUsePercent)); "%"; SPACES(18)
01,034         PRINT "Total Physical Memory: "; PRINT AddCommas$(TotalPhysicalMem); " bytes"; SPACES(18)
01,035         PRINT "Free Physical Memory: "; PRINT AddCommas$(FreePhysicalMem); " bytes"; SPACES(18)
01,036         PRINT "Total Paging File: "; PRINT AddCommas$(TotalPagingFile); " bytes"; SPACES(18)
01,037         PRINT "Free Paging File: "; PRINT AddCommas$(FreePagingFile); " bytes"; SPACES(18)
01,038         PRINT "Total Virtual Memory: "; PRINT AddCommas$(TotalVirtualMem); " bytes"; SPACES(18)
01,039         PRINT "Free Virtual Memory: "; PRINT AddCommas$(FreeVirtualMem); " bytes"; SPACES(18)
01,040         ' MEMUSAGE by Steve ]
01,041       $End If
01,042     End If
01,043
01,044     LastPercentage = LastPercentage + 1 ' in range 1..(XdimCOL-1)
01,045     Mid$(StatuLine$, 2, LastPercentage) = String$(LastPercentage, Chr$(176))
01,046     Locate YdimROW + 1, 1: Color 9, 0: Print StatuLine$;
01,047
01,048     If YdimROW = 60 Then
01,049       cryFrame = CsrLin
01,050       NextFramePEN 1
01,051       Locate cryFrame, 1
01,052     End If
01,053
01,054     _Display
01,055   End If
01,056
01,057   LastByte = Right$(chunk128KB$, 1) 'to handle eventual CR, left behind i.e. in previous chunk
01,058   Get #1, j, chunk128KB$
01,059   i = 1
01,060   FoundAt = InStr(i, chunk128KB$, Chr$(10))
01,061   If FoundAt Then
01,062     Do while FoundAt
01,063       If FoundAt = 1 Then PrevByte = LastByte Else PrevByte = Mid$(chunk128KB$, FoundAt - 1, 1)
01,064       QWORD = (j - 1) + FoundAt
01,065       LineLen13 = QWORD - QWORDlast
01,066       _MemPut MhandleOFF, MhandleOFF.OFFSET + 8&& * filecount, QWORDlast
01,067       QWORDlast = QWORD + 1
01,068       If PrevByte = Chr$(13) Then LineLen13 = LineLen13 - 1
01,069       _MemPut MhandleLEN, MhandleLEN.OFFSET + 8&& * filecount, LineLen13
01,070       If LineLen13 > LongestLine Then LongestLine = LineLen13
01,071       filecount = filecount + 1
01,072       i = FoundAt + 1
01,073       If i > (ChunkLen) Then Exit Do 'could use sentinel (buffer+1), in order this line to drop out
01,074       FoundAt = InStr(i, chunk128KB$, Chr$(10))
01,075     Loop
01,076   End If
01,077   j = j + (ChunkLen)
01,078   ReadBytes = ReadBytes + (ChunkLen)
01,079 Loop
01,080 If (FileSize - ReadBytes) Then
01,081   RemainingChunk$ = Space$(FileSize - ReadBytes) '+1 for sentinel
01,082   LastByte = Right$(chunk128KB$, 1) 'to handle eventual CR, left behind i.e. in previous chunk
01,083   Get #1, RemainingChunk$
01,084   If Right$(RemainingChunk$, 1) <> Chr$(10) Then RemainingChunk$ = RemainingChunk$ + Chr$(10) ' dirty, enforcing not missing the last line (if it is not postfixing with
01,085 LF)
01,086   'Beware, yes be aware that above line should have been applied for above/first fragment because the filesize could be multiple of the chunk length i.e. no remaining
01,087   chunk, however it was feinted by '<'
01,088   i = 1
01,089   FoundAt = InStr(i, RemainingChunk$, Chr$(10))
01,090   If FoundAt Then
01,091     Do while FoundAt
01,092       If FoundAt = 1 Then PrevByte = LastByte Else PrevByte = Mid$(RemainingChunk$, FoundAt - 1, 1)
01,093       QWORD = (j - 1) + FoundAt
01,094       LineLen13 = QWORD - QWORDlast
01,095       _MemPut MhandleOFF, MhandleOFF.OFFSET + 8&& * filecount, QWORDlast
01,096       QWORDlast = QWORD + 1
01,097       If PrevByte = Chr$(13) Then LineLen13 = LineLen13 - 1
01,098       _MemPut MhandleLEN, MhandleLEN.OFFSET + 8&& * filecount, LineLen13
01,099       If LineLen13 > LongestLine Then LongestLine = LineLen13
01,100       filecount = filecount + 1
01,101       i = FoundAt + 1
01,102       If i > (FileSize - ReadBytes) Then Exit Do 'could use sentinel (buffer+1), in order this line to drop out
01,103       FoundAt = InStr(i, RemainingChunk$, Chr$(10))
01,104     Loop
01,105   End If
01,106   End If
01,107   Seek #1, 1
01,108   ' Parser for r.7 ] ] ] ] ] ]
01,109 Else

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01,110         Close #1 'when filesize is 0
01,111         System
01,112     End IF 'IF FileSize THEN
01,113 End If
01,114
01,115 ' Below fragment is r.4 with 64bit pointers... to external RAM!
01,116 ' On i5-7200u, SSD Kingston 256GB it loads OED in 3,339 seconds, naturally the second attempt is to read byte-by-byte from RAM, however the whole file has to be loaded.
01,117 'IF _FILEEXISTS(a$) THEN
01,118     PRINT: PRINT "Loading..."
01,119     _DISPLAY
01,120     OPEN a$ FOR BINARY AS #1
01,121     FileSize = LOF(1)
01,122     filecount = 0
01,123     MhandleOFF = _MEMNEW(8&& * FileSize) 'create new memory block of 8*filesize bytes - each line has its own 64bit Offset
01,124     MhandleLEN = _MEMNEW(8&& * FileSize) 'create new memory block of 8*filesize bytes - each line has its own 64bit Length, kinda overkill, could be 32bit
01,125     LineLen13 = 0
01,126     Byte = ""
01,127     'Caution: Many files DON'T end with CRLF, or LF or CR - kinda the last line is not always postfixed correctly!
01,128     'This means if after the last CRLF, or LF or CR there is at least one byte then the number of total lines should be +1
01,129     FOR j = 1 TO FileSize + 1
01,130         PrevByte = Byte
01,131         IF j <= FileSize THEN
01,132             GET #1, , Byte
01,133         ELSE
01,134             Byte = ""
01,135             IF PrevByte <> CHR$(10) THEN Byte = CHR$(10) ' enforce last line to be postfixed ONLY if last char was not LF
01,136         END IF
01,137         QWORD = j
01,138         IF Byte = CHR$(10) THEN 'For now, won't work for MacOS...
01,139             QWORD = QWORD - LineLen13 'have to write the current offset minus the length of the line
01,140             _MEMPUT MhandleOFF, MhandleOFF.OFFSET + 8&& * filecount, QWORD
01,141             IF PrevByte = CHR$(13) THEN LineLen13 = LineLen13 - 1
01,142             _MEMPUT MhandleLEN, MhandleLEN.OFFSET + 8&& * filecount, LineLen13
01,143             IF LineLen13 > LongestLine THEN LongestLine = LineLen13
01,144             LineLen13 = 0
01,145             filecount = filecount + 1
01,146         ELSE
01,147             LineLen13 = LineLen13 + 1
01,148         END IF
01,149     NEXT j
01,150 'END IF
01,151
01,152 ''PRINT "filecount="; filecount
01,153 ''PRINT "LongestLine="; LongestLine
01,154 ''exercise in reproducing the indexed file:
01,155 ''Debugo = CHR$(13) + CHR$(10)
01,156 ''Debugo = CHR$(10)
01,157 'OPEN a$ + ".dump" FOR BINARY AS #2
01,158 'FOR i = 1 TO filecount
01,159     _MEMGET MhandleOFF, MhandleOFF.OFFSET + 8&& * (i - 1), QWORD
01,160     _MEMGET MhandleLEN, MhandleLEN.OFFSET + 8&& * (i - 1), LineLen13
01,161     PRINT QWORD, LineLen13:
01,162     SEEK #1, QWORD
01,163     BufferForLine$ = ""
01,164     FOR j = 1 TO LineLen13
01,165         GET #1, , Byte 'grmb1, how to load in one call?! As fread() is capable.
01,166         PUT #2, , Byte
01,167         BufferForLine$ = BufferForLine$ + Byte
01,168     NEXT j
01,169     PUT #2, , Debugo
01,170     PRINT BufferForLine$
01,171 'NEXT i
01,172 ''_DISPLAY
01,173 ''END
01,174
01,175 ' Commented fragment is r.3+ with slow strings
01,176 'LongestLine = 0
01,177 'IF _FILEEXISTS(a$) THEN
01,178     PRINT: PRINT "Loading..."
01,179     _DISPLAY
01,180     filecount = 0
01,181     '
01,182     OPEN a$ FOR INPUT AS #1
01,183     DO UNTIL EOF(1)
01,184         LINE INPUT #1, l$
01,185         filecount = filecount + 1
01,186     LOOP
01,187     CLOSE #1
01,188     REDIM FileArray$(1 TO filecount)
01,189     filecount = 0
01,190     '
01,191     OPEN a$ FOR BINARY AS #1 ' As suggested by SMCNeill and Pete in https://www.qb64.org/forum/index.php?topic=3518.msg128631#msg128631
01,192     FileSize = LOF(1)
01,193     DO UNTIL EOF(1)
01,194         LINE INPUT #1, l$
01,195         ExpandTabs l$
01,196         FOR j = 1 TO LEN(l$)
01,197             IF MID$(l$, j, 1) < CHR$(32) THEN MID$(l$, j, 1) = CHR$(32)
01,198         NEXT j
01,199         IF LEN(l$) > LongestLine THEN LongestLine = LEN(l$)
01,200         filecount = filecount + 1
01,201         FileArray$(filecount) = l$
01,202     LOOP
01,203     CLOSE #1
01,204 'END IF
01,205
01,206 _Limit 5
01,207 If (_KeyDown(LALTkey&) Or _KeyDown(RALTkey&)) And (_KeyDown(81) Or _KeyDown(113)) Then System
01,208 If (_KeyDown(LALTkey&) Or _KeyDown(RALTkey&)) And (_KeyDown(88) Or _KeyDown(120)) Then System
01,209

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01,410
01,411 If _KeyDown(27) Then
01,412     LineScrollBenchmark = 0
01,413     PageScrollBenchmark = 0
01,414 End If
01,415
01,416 If LSHIFT_RSHIFT Or LineScrollBenchmark = 1 Then 'same as scroll page-by-page benchmark, but line-by-line
01,417     If LineScrollBenchmark = 0 Then TimeScrollA = Timer
01,418     LineScrollBenchmark = 1
01,419     'PgDn - just add the page height i.e. 'YdimROW' to 'File_Frame_y'
01,420     ' Don't execute PgDn (advancing the 'CurrentLine') if 'File_Frame_y' is not "eligible":
01,421     'IF File_Frame_y < filecount - (YdimROW - 1) THEN File_Frame_y = File_Frame_y + 1
01,422     'IF File_Frame_y + 1 <= filecount - (YdimROW - 1) THEN File_Frame_y = File_Frame_y + 1
01,423     'CAUTION [
01,424     ' Next three line beep NOT
01,425     'DEFLNG A-Z
01,426     'aaa = 61
01,427     'bbb = -48
01,428     'IF aaa <= bbb THEN BEEP: END
01,429     'Next three line beep
01,430     'aaa& = 61
01,431     'bbb& = -48
01,432     'IF aaa& <= bbb& THEN BEEP: END
01,433     'Next three line beep NOT
01,434     'aaa& = 61
01,435     'bbb& = -48
01,436     'IF aaa& <= bbb& THEN BEEP: END
01,437     'Next line works even when unsigned!
01,438     'IF File_Frame_y + YdimROW - (filecount - (YdimROW - 1)) <= 0 THEN
01,439     'CAUTION ]
01,440     'Next line doesn't work when unsigned!
01,441     If File_Frame_y + 1 <= filecount - (YdimROW - 1) Then
01,442         File_Frame_y = File_Frame_y + 1
01,443         'IF CurrentLine < filecount THEN CurrentLine = CurrentLine + 1
01,444         'IF CurrentLine + 1 <= filecount THEN CurrentLine = CurrentLine + 1
01,445         'IF CurrentLine + 1 <= filecount THEN CurrentLine = CurrentLine + 1
01,446         UpdateWindowFrame NormalFRGr, NormalBCKGr
01,447     Else
01,448         If LineScrollBenchmark = 1 Then
01,449             TimeScrollB = Timer
01,450             _KeyClear
01,451             ReportTimeToScroll MostRightField
01,452             LineScrollBenchmark = 0
01,453             _Display
01,454         End If
01,455     End If
01,456 End If
01,457
01,458 ' Esc F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12 Sys SCL Pause
01,459 ' 27 +59 +60 +61 +62 +63 +64 +65 +66 +67 +68 +133 +134 - - -
01,460 ' ~ 1! 2@ 3# 4$ 5% 6^ 7& 8* 9( 0) _ = + BkSp Ins Hme PUP NumL / * -
01,461 ' 126 33 64 35 36 37 94 38 42 40 41 95 43 8 +82 +71 +73 - 47 42 45
01,462 ' 96 49 50 51 52 53 54 55 56 57 48 45 61
01,463 ' Tab Q W E R T Y U I O P [ { ] \ | Del End PDn 7Hme 8/ 9PU +
01,464 ' 9 81 87 69 82 84 89 85 73 79 80 123 125 124 +83 +79 +81 +71 +72 +73 43
01,465 ' 113 119 101 114 116 121 117 105 111 112 91 93 92 55 56 57
01,466 ' CapL A S D F G H J K L ; : " ' Enter 4/- 5 6/-
01,467 ' - 65 83 68 70 71 72 74 75 76 58 34 13 +75 +76 +77 E
01,468 ' 97 115 100 102 103 104 106 107 108 59 39 52 53 54 n
01,469
01,470 ' Shift Z X C V B N M , < . > / ? Shift 1End 2/ 3PD t
01,471 ' * 90 88 67 86 66 78 77 60 62 63 * +72 +79 +80 +81 e
01,472 ' 122 120 99 118 98 110 109 44 46 47 49 50 51 r
01,473 ' Ctrl Win Alt Spacebar Alt Win Menu Ctrl - - 0Ins .Del
01,474 ' * - * 32 * - - * +75 +80 +77 +82 +83 13
01,475 ' 48 46
01,476
01,477 ' Italics = LCase/NumLock On _____ + = 2 Byte: CHR$(0) + CHR$(code)
01,478 'NOTE: The above commented table can be copied and pasted directly into the QB64 IDE
01,479
01,480 key$ = InKey$
01,481 'do: a$ = INKEY$: LOOP UNTIL a$ <> "" ' prevent ASC empty string read error
01,482 If key$ <> "" Then
01,483     code% = Asc(key$):
01,484     If code% Then ' ASC returns any value greater than 0
01,485         Select Case Asc(key$)
01,486             Case 32:
01,487                 a$ = RTrim$(FileArray$(CurrentLine))
01,488                 If _FileExists(a$) Then
01,489                     Close #1
01,490                     _MemFree MhandleOFF
01,491                     _MemFree MhandleLEN
01,492                     If ToLoadOrNotFlag Then
01,493                         _MemFree Mwholefile
01,494                     End If
01,495                     GOTO GettingStarted 'Before going above lines must be executed, i.e. to initialize.
01,496                 End If
01,497             Case 65 TO 97: 'PRINT key$;
01,498             Case Asc("a") TO Asc("z"): 'PRINT key$;
01,499             'CASE 27: COLOR 7, 0: SYSTEM 'END
01,500         End Select
01,501     Else
01,502         Select Case Asc(key$, 2)
01,503             Case 59:
01,504                 Locate 1, 1, 0, 30, 31
01,505                 For i = 1 To YdimROW
01,506                     Locate i, 1: Print Space$(XdimCOL);
01,507                 Next
01,508                 Locate 1, 1
01,509                 ShowF1

```

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01,510         Print: Print "Press ESC..."
01,511         _Display
01,512         $If WINDOWS Then
01,513             PLAY "v20120g"
01,514         $End If
01,515         Do While InKey$ <> Chr$(27)
01,516             _Limit 30
01,517         Loop
01,518         UpdateWindowFrame NormalFRGr, NormalBCKGr
01,519     Case 72:
01,520         If CurrentLine > 1 Then CurrentLine = CurrentLine - 1
01,521         If cry > 1 Then
01,522             cry = cry - 1 'up
01,523         Else 'scrolling is needed
01,524             If File_Frame_y > 1 Then File_Frame_y = File_Frame_y - 1
01,525             UpdateWindowFrame NormalFRGr, NormalBCKGr
01,526         End If
01,527     Case 80:
01,528         If CurrentLine < filecount Then CurrentLine = CurrentLine + 1
01,529         If cry < YdimROW Then
01,530             If cry < filecount Then cry = cry + 1 'down
01,531         Else 'scrolling is needed
01,532             If File_Frame_y < filecount - (YdimROW - 1) Then File_Frame_y = File_Frame_y + 1
01,533             UpdateWindowFrame NormalFRGr, NormalBCKGr
01,534         End If
01,535     Case 75: If crx > 1 Then crx = crx - 1 'left
01,536     Case 77: If crx < XdimCOL Then crx = crx + 1 'right
01,537     Case 73: 'PgUp
01,538         If File_Frame_y - YdimROW >= 1 Then
01,539             File_Frame_y = File_Frame_y - YdimROW
01,540             If CurrentLine - YdimROW >= 1 Then CurrentLine = CurrentLine - YdimROW
01,541             UpdateWindowFrame NormalFRGr, NormalBCKGr
01,542         End If
01,543     Case 81: 'PgDn
01,544         If File_Frame_y + YdimROW <= filecount - (YdimROW - 1) Then
01,545             File_Frame_y = File_Frame_y + YdimROW
01,546             'IF CurrentLine < filecount THEN CurrentLine = CurrentLine + 1
01,547             'IF CurrentLine + 1 <= filecount THEN CurrentLine = CurrentLine + 1
01,548             If CurrentLine + YdimROW <= filecount Then CurrentLine = CurrentLine + YdimROW
01,549             UpdateWindowFrame NormalFRGr, NormalBCKGr
01,550         End If
01,551     End Select
01,552     End If
01,553 End If
01,554 If cryOLD <> cry Then
01,555     UpdateCLine cryOLD, 1, NormalFRGr, NormalBCKGr, cryOLD
01,556     cryOLD = cry
01,557 Else 'it 'cry' could be changed by Mouse wheel too, check it
01,558     ASIfItIsINKEY% = _MouseInput ' Check the mouse status
01,559     buttondown1 = _MouseButton(1)
01,560     buttondown2 = _MouseButton(2)
01,561     buttondown3 = _MouseButton(3)
01,562     mwheel = _Mousewheel
01,563
01,564     If _KeyDown(LSHIFTkey&) And buttondown1 Then 'Fast Up
01,565         If CurrentLine > 1 Then CurrentLine = CurrentLine - 1
01,566         If cry > 1 Then
01,567             cry = cry - 1 'up
01,568         Else 'scrolling is needed
01,569             If File_Frame_y > 1 Then File_Frame_y = File_Frame_y - 1
01,570             UpdateWindowFrame NormalFRGr, NormalBCKGr
01,571         End If
01,572     End If
01,573
01,574     If _KeyDown(LSHIFTkey&) And buttondown2 Then 'Fast Down
01,575         If CurrentLine < filecount Then CurrentLine = CurrentLine + 1
01,576         If cry < YdimROW Then
01,577             If cry < filecount Then cry = cry + 1 'down
01,578         Else 'scrolling is needed
01,579             If File_Frame_y < filecount - (YdimROW - 1) Then File_Frame_y = File_Frame_y + 1
01,580             UpdateWindowFrame NormalFRGr, NormalBCKGr
01,581         End If
01,582     End If
01,583
01,584     If _KeyDown(LALTkey&) And buttondown1 Then 'CTRL_HOME
01,585         CTRL_HOME = 1
01,586     End If
01,587     If _KeyDown(LALTkey&) And buttondown2 Then 'CTRL_END
01,588         CTRL_END = 1
01,589     End If
01,590
01,591     If _KeyDown(LCTRLkey&) And buttondown1 Then 'Fast PgUp
01,592         If File_Frame_y - YdimROW >= 1 Then
01,593             File_Frame_y = File_Frame_y - YdimROW
01,594             If CurrentLine - YdimROW >= 1 Then CurrentLine = CurrentLine - YdimROW
01,595             UpdateWindowFrame NormalFRGr, NormalBCKGr
01,596         End If
01,597     End If
01,598
01,599     If _KeyDown(LCTRLkey&) And buttondown2 Then 'Fast PgDn, grmb1, for some reason (Lshift+button3) and (Lshift+button1) are not spitting?!
01,600         If File_Frame_y + YdimROW <= filecount - (YdimROW - 1) Then
01,601             File_Frame_y = File_Frame_y + YdimROW
01,602             'IF CurrentLine < filecount THEN CurrentLine = CurrentLine + 1
01,603             'IF CurrentLine + 1 <= filecount THEN CurrentLine = CurrentLine + 1
01,604             If CurrentLine + YdimROW <= filecount Then CurrentLine = CurrentLine + YdimROW
01,605             UpdateWindowFrame NormalFRGr, NormalBCKGr
01,606         End If
01,607     End If
01,608
01,609     If mwheel = 1 Then ' as if Down

```

```

01,610 If CurrentLine < filecount Then CurrentLine = CurrentLine + 1
01,611 If cry < YdimROW Then
01,612     If cry < filecount Then cry = cry + 1 'down
01,613 Else 'scrolling is needed
01,614     If File_Frame_y < filecount - (YdimROW - 1) Then File_Frame_y = File_Frame_y + 1
01,615     UpdateWindowFrame NormalFRGr, NormalBCKGr
01,616 End If
01,617 End If
01,618 If mwheel = -1 Then ' as if Up
01,619     If CurrentLine > 1 Then CurrentLine = CurrentLine - 1
01,620     If cry > 1 Then
01,621         cry = cry - 1 'up
01,622     Else 'scrolling is needed
01,623         If File_Frame_y > 1 Then File_Frame_y = File_Frame_y - 1
01,624         UpdateWindowFrame NormalFRGr, NormalBCKGr
01,625     End If
01,626 End If
01,627 If (_KeyDown(LSHIFTkey&) = 0) And buttondown1 Then
01,628     crxOLD = crx
01,629     cryOLD = cry
01,630     If _MouseY <= MIN&(YdimROW, filecount) Then
01,631         cry = _MouseY
01,632         crx = _MouseX
01,633         UpdateCLine cryOLD, 1, NormalFRGr, NormalBCKGr, cryOLD
01,634         Do while cryOLD > cry
01,635             cryOLD = cryOLD - 1
01,636             If CurrentLine > 1 Then CurrentLine = CurrentLine - 1
01,637         Loop
01,638         Do while cryOLD < cry
01,639             cryOLD = cryOLD + 1
01,640             If CurrentLine < filecount Then CurrentLine = CurrentLine + 1
01,641         Loop
01,642     End If
01,643 End If
01,644
01,645 If (mwheel = -1) And buttondown2 Then ' same as LCTRL_HOME
01,646     LCTRL_HOME = 1
01,647 End If
01,648 If (mwheel = 1) And buttondown2 Then ' same as LCTRL_END
01,649     LCTRL_END = 1
01,650 End If
01,651
01,652 If buttondown2 Then ' 'drawing a line' gesture - 100 cells at least long, COMBO: Alt+X, Alt+Q
01,653     ReadOnceY = _MouseY
01,654     ReadOnceX = _MouseX
01,655     If Button2Down = 0 Then Mouse2Press! = Timer: Button2Down = 1
01,656     If WidenessINIT = 0 Then WidenessINIT = ReadOnceX
01,657     If HighnessINIT = 0 Then HighnessINIT = ReadOnceY
01,658     If ReadOnceY < YdimROW + 1 Then Locate ReadOnceY, ReadOnceX: Print Chr$(176); 'don't write trail in status line
01,659 Else
01,660     Button2Down = 0
01,661     Mouse2Release! = Timer
01,662     If WidenessINIT And (Mouse2Release! - Mouse2Press! > 0 And Mouse2Release! - Mouse2Press! < 2) Then
01,663         If Abs(_MouseX - WidenessINIT) >= 100 Then System 'PLAY "v1018g" 'bidirectional i.e. can be drawn from left to right and vice versa
01,664         WidenessINIT = 0
01,665     End If
01,666     'simulate PgDn (from bottom to top, as the hand cursor in Photoshop), but not repetitive i.e. not-buffered
01,667     If HighnessINIT And (Mouse2Release! - Mouse2Press! > 0 And Mouse2Release! - Mouse2Press! < 2) Then
01,668         If (HighnessINIT - _MouseY) >= 5 Then 'PLAY "v1018g" 'bidirectional i.e. can be drawn from left to right and vice versa
01,669
01,670             If File_Frame_y + YdimROW <= filecount - (YdimROW - 1) Then
01,671                 File_Frame_y = File_Frame_y + YdimROW
01,672                 'IF CurrentLine < filecount THEN CurrentLine = CurrentLine + 1
01,673                 'IF CurrentLine + 1 <= filecount THEN CurrentLine = CurrentLine + 1
01,674                 If CurrentLine + YdimROW <= filecount Then CurrentLine = CurrentLine + YdimROW
01,675                 UpdateWindowFrame NormalFRGr, NormalBCKGr
01,676             End If
01,677             ' Here is the layout:
01,678             ' The window-frame is 1..crx or 1..128 | The file-frame is 1..LongestLine
01,679             '
01,680             '
01,681             '           cry           60           |           filecount
01,682             '           FileArrayWINDOW$(60) |           FileArray(filecount)
01,683             ' if File_Frame_x < 128 then PADDING to 128 else File_Frame_x = 1..LongestLine-(128-1)
01,684             ' if File_Frame_y < 60 then PADDING to 60 else File_Frame_y = 1..filecount-(60-1)
01,685
01,686         End If
01,687     End If
01,688     'simulate PgUp (from top to bottom, as the hand cursor in Photoshop), but not repetitive i.e. not-buffered
01,689     If HighnessINIT And (Mouse2Release! - Mouse2Press! > 0 And Mouse2Release! - Mouse2Press! < 2) Then
01,690         If (_MouseY - HighnessINIT) >= 5 Then 'PLAY "v1018g" 'bidirectional i.e. can be drawn from left to right and vice versa
01,691
01,692             If File_Frame_y - YdimROW >= 1 Then
01,693                 File_Frame_y = File_Frame_y - YdimROW
01,694                 If CurrentLine - YdimROW >= 1 Then CurrentLine = CurrentLine - YdimROW
01,695                 UpdateWindowFrame NormalFRGr, NormalBCKGr
01,696             End If
01,697         End If
01,698     End If
01,699 End If
01,700 HighnessINIT = 0
01,701 End If
01,702
01,703 If LCTRL_RCTRL Then PageScrollBenchmark = 1: TimeScrollA = Timer
01,704 If buttondown3 Or PageScrollBenchmark Then 'PgDn - just add the page height i.e. 'YdimROW' to 'File_Frame_y'
01,705     ' Don't execute PgDn (advancing the 'CurrentLine') if 'File_Frame_y' is not "eligible":
01,706     'IF File_Frame_y < filecount - (YdimROW - 1) THEN File_Frame_y = File_Frame_y + 1
01,707     'IF File_Frame_y + 1 <= filecount - (YdimROW - 1) THEN File_Frame_y = File_Frame_y + 1
01,708     'CAUTION [
01,709     ' Next three line beep NOT

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```

01,710 'DEFLNG A-Z
01,711 'aaa = 61
01,712 'bbb = -48
01,713 'IF aaa <= bbb THEN BEEP: END
01,714 'Next three line beep
01,715 'aaa-& = 61
01,716 'bbb-& = -48
01,717 'IF aaa-& <= bbb-& THEN BEEP: END
01,718 'Next three line beep NOT
01,719 'aaa& = 61
01,720 'bbb& = -48
01,721 'IF aaa& <= bbb& THEN BEEP: END
01,722 'Next line works even when unsigned!
01,723 'IF File_Frame_y + YdimROW - (filecount - (YdimROW - 1)) <= 0 THEN
01,724 'CAUTION ]
01,725 'Next line doesn't work when unsigned!
01,726 If File_Frame_y + YdimROW <= filecount - (YdimROW - 1) Then
01,727 File_Frame_y = File_Frame_y + YdimROW
01,728 'IF CurrentLine < filecount THEN CurrentLine = CurrentLine + 1
01,729 'IF CurrentLine + 1 <= filecount THEN CurrentLine = CurrentLine + 1
01,730 If CurrentLine + YdimROW <= filecount Then CurrentLine = CurrentLine + YdimROW
01,731 UpdateWindowFrame NormalFRGr, NormalBCKGr
01,732 Else
01,733 If PageScrollBenchmark = 1 Then
01,734 TimeScrollB = Timer
01,735 _KeyClear
01,736 ReportTimeToScroll MostRightField
01,737 PageScrollBenchmark = 0
01,738 _Display
01,739 End If
01,740 End If
01,741 End If
01,742 End If
01,743 If cryOLD <> cry Then
01,744 UpdateCLine cryOLD, 1, NormalFRGr, NormalBCKGr, cryOLD
01,745 cryOLD = cry
01,746 End If
01,747 If LCTRL_HOME Then
01,748 Locate 1, 1, 1, 30, 31
01,749 crx = Pos(0)
01,750 cry = CsrLin
01,751 crxOLD = crx
01,752 cryOLD = cry
01,753 File_Frame_x = 1
01,754 File_Frame_y = 1
01,755 CurrentLine = 1
01,756 UpdateWindowFrame NormalFRGr, NormalBCKGr
01,757 'DO WHILE _MOUSEINPUT: LOOP
01,758 End If
01,759 If LCTRL_END Then
01,760 If filecount >= YdimROW Then
01,761 If filecount - (YdimROW - 1) Then
01,762 Locate YdimROW, 1, 1, 30, 31
01,763 crx = Pos(0)
01,764 cry = CsrLin
01,765 crxOLD = crx
01,766 cryOLD = cry
01,767 File_Frame_x = 1
01,768 File_Frame_y = filecount - (YdimROW - 1)
01,769 CurrentLine = filecount
01,770 UpdateWindowFrame NormalFRGr, NormalBCKGr
01,771 End If
01,772 Else
01,773 Locate filecount, 1, 1, 30, 31
01,774 crx = Pos(0)
01,775 cry = CsrLin
01,776 crxOLD = crx
01,777 cryOLD = cry
01,778 File_Frame_x = 1
01,779 File_Frame_y = 1
01,780 CurrentLine = filecount
01,781 UpdateWindowFrame NormalFRGr, NormalBCKGr
01,782 End If
01,783 'DO WHILE _MOUSEINPUT: LOOP
01,784 End If
01,785
01,786 If buttondown1 Then
01,787 tCurrentTI# = Timer(.001)
01,788 If tCurrentTI# - tLASTpress1# < .33 And tCurrentTI# - tLASTrelease1# < .33 Then Click1 = 2 Else Click1 = 0
01,789 If Click1 = 2 And SaveMouseY1 = _MouseY Then ' "Double click" same as SPACE key
01,790 a$ = RTrim$(FileArray$(CurrentLine))
01,791 If _FileExists(a$) Then
01,792 Close #1
01,793 _MemFree MhandleOFF
01,794 _MemFree MhandleLEN
01,795 If ToLoadOrNotFlag Then
01,796 _MemFree Mwholefile
01,797 End If
01,798 GoTo GettingStarted 'before going above lines must be executed, i.e. to initialize.
01,799 Else ' not responsive enough - it misses some double-clicks?!
01,800 If File_Frame_y - YdimROW >= 1 Then
01,801 File_Frame_y = File_Frame_y - YdimROW
01,802 If CurrentLine - YdimROW >= 1 Then CurrentLine = CurrentLine - YdimROW
01,803 UpdateWindowFrame NormalFRGr, NormalBCKGr
01,804 End If
01,805 End If
01,806 SaveMouseY1 = 0 'execute once
01,807 End If
01,808 tLASTpress1# = Timer(.001)
01,809 Else

```

```

01,810     If Timer - tLASTpress1# < .01 Then tLASTrelease1# = Timer(.001): SaveMouseY1 = _MouseY
01,811 End If
01,812 If buttontdown2 Then
01,813     tCurrentT2# = Timer(.001)
01,814     If tCurrentT2# - tLASTpress2# < .33 And tCurrentT2# - tLASTrelease2# < .33 Then Click2 = 2 Else Click2 = 0
01,815     If Click2 = 2 And SaveMouseY2 = _MouseY Then ' "Double click" same as SPACE key
01,816         If File_Frame_y + YdimROW <= filecount - (YdimROW - 1) Then
01,817             File_Frame_y = File_Frame_y + YdimROW
01,818             'IF CurrentLine < filecount THEN CurrentLine = CurrentLine + 1
01,819             'IF CurrentLine + 1 <= filecount THEN CurrentLine = CurrentLine + 1
01,820             If CurrentLine + YdimROW <= filecount Then CurrentLine = CurrentLine + YdimROW
01,821             UpdateWindowFrame NormalFRGr, NormalBCKGr
01,822         End If
01,823         SaveMouseY2 = 0 'execute once
01,824     End If
01,825     tLASTpress2# = Timer(.001)
01,826 Else
01,827     If Timer - tLASTpress2# < .01 Then tLASTrelease2# = Timer(.001): SaveMouseY2 = _MouseY
01,828 End If
01,829
01,830 Locate cry, crx, 1, 30, 31
01,831 UpdateCLine cry, 1, InverseFRGr, InverseBCKGr, cry
01,832 UpdateCLL CurrentLine, Len(Dumbo$) + 1 + 1
01,833 _Display
01,834 'DO WHILE INKEY$ <> "" : LOOP ' have to clear the keyboard buffer
01,835 _Limit 500 '_LIMIT 30 'commented because the wheel up/down was not working?!
01,836 'Caution: Above line works fine with "mainstream" mouse like a cheap HP 3-button one, but when attaching "game" mouse as White Shark Lance!ot, it became superlaggy and unresponsive,
maybe due to REPORT RATE aka POLL RATE being high, had to set it to 125Hz in order to work as if "cheap".
01,837 Loop
01,838
01,839 End
01,840
01,841 Sub ReturnCOMBO
01,842 Shared LSHIFT_RSHIFT
01,843 Shared LCTRL_RCTRL
01,844 Shared LALT_RALT
01,845
01,846 Shared LALT_HOME
01,847 Shared LALT_END
01,848
01,849 Shared LALT_INS
01,850 Shared LALT_DEL
01,851
01,852 Shared LALT_PGUP
01,853 Shared LALT_PGDN
01,854
01,855 Shared LALT_Left
01,856 Shared LALT_Right
01,857 Shared LALT_Up
01,858 Shared LALT_Down
01,859
01,860 Shared RALT_HOME
01,861 Shared RALT_END
01,862
01,863 Shared RALT_INS
01,864 Shared RALT_DEL
01,865
01,866 Shared RALT_PGUP
01,867 Shared RALT_PGDN
01,868
01,869 Shared RALT_Left
01,870 Shared RALT_Right
01,871 Shared RALT_Up
01,872 Shared RALT_Down
01,873
01,874 Shared LSHIFT_HOME
01,875 Shared LSHIFT_END
01,876
01,877 Shared LSHIFT_INS
01,878 Shared LSHIFT_DEL
01,879
01,880 Shared LSHIFT_PGUP
01,881 Shared LSHIFT_PGDN
01,882
01,883 Shared LSHIFT_Left
01,884 Shared LSHIFT_Right
01,885 Shared LSHIFT_Up
01,886 Shared LSHIFT_Down
01,887
01,888 Shared RSHIFT_HOME
01,889 Shared RSHIFT_END
01,890
01,891 Shared RSHIFT_INS
01,892 Shared RSHIFT_DEL
01,893
01,894 Shared RSHIFT_PGUP
01,895 Shared RSHIFT_PGDN
01,896
01,897 Shared RSHIFT_Left
01,898 Shared RSHIFT_Right
01,899 Shared RSHIFT_Up
01,900 Shared RSHIFT_Down
01,901
01,902 Shared LCTRL_HOME
01,903 Shared LCTRL_END
01,904
01,905 Shared LCTRL_INS
01,906 Shared LCTRL_DEL
01,907
01,908 Shared LCTRL_PGUP

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01,909 Shared LCTRL_PGDN
01,910
01,911 Shared LCTRL_Left
01,912 Shared LCTRL_Right
01,913 Shared LCTRL_Up
01,914 Shared LCTRL_Down
01,915
01,916 Shared RCTRL_HOME
01,917 Shared RCTRL_END
01,918
01,919 Shared RCTRL_INS
01,920 Shared RCTRL_DEL
01,921
01,922 Shared RCTRL_PGUP
01,923 Shared RCTRL_PGDN
01,924
01,925 Shared RCTRL_Left
01,926 Shared RCTRL_Right
01,927 Shared RCTRL_Up
01,928 Shared RCTRL_Down
01,929
01,930 Shared LSHIFT_LCTRL_HOME
01,931 Shared LSHIFT_LCTRL_END
01,932
01,933 Shared LSHIFT_LCTRL_INS
01,934 Shared LSHIFT_LCTRL_DEL
01,935
01,936 Shared LSHIFT_LCTRL_PGUP
01,937 Shared LSHIFT_LCTRL_PGDN
01,938
01,939 Shared LSHIFT_LCTRL_Left
01,940 Shared LSHIFT_LCTRL_Right
01,941 Shared LSHIFT_LCTRL_Up
01,942 Shared LSHIFT_LCTRL_Down
01,943
01,944 Shared LSHIFT_BackSpace
01,945 Shared LSHIFT_TAB
01,946 Shared LSHIFT_SPACE
01,947 Shared LSHIFT_ESC
01,948 Shared LSHIFT_ENTER
01,949
01,950 Shared RSHIFT_BackSpace
01,951 Shared RSHIFT_TAB
01,952 Shared RSHIFT_SPACE
01,953 Shared RSHIFT_ESC
01,954 Shared RSHIFT_ENTER
01,955
01,956 Shared LCTRL_SPACE
01,957 Shared LCTRL_ENTER
01,958
01,959 Shared RCTRL_SPACE
01,960 Shared RCTRL_ENTER
01,961
01,962 If _KeyDown(LSHIFTkey&) And _KeyDown(RSHIFTkey&) Then LSHIFT_RSHIFT = 1 Else LSHIFT_RSHIFT = 0
01,963 If _KeyDown(LCTRLkey&) And _KeyDown(RCTRLkey&) Then LCTRL_RCTRL = 1 Else LCTRL_RCTRL = 0
01,964 If _KeyDown(LALTkey&) And _KeyDown(RALTkey&) Then LALT_RALT = 1 Else LALT_RALT = 0
01,965
01,966 'LALT:
01,967 If _KeyDown(LALTkey&) And _KeyDown(HOMEkey&) Then LALT_HOME = 1 Else LALT_HOME = 0
01,968 If _KeyDown(LALTkey&) And _KeyDown(ENDkey&) Then LALT_END = 1 Else LALT_END = 0
01,969
01,970 If _KeyDown(LALTkey&) And _KeyDown(INSkey&) Then LALT_INS = 1 Else LALT_INS = 0
01,971 If _KeyDown(LALTkey&) And _KeyDown(DELkey&) Then LALT_DEL = 1 Else LALT_DEL = 0
01,972
01,973 If _KeyDown(LALTkey&) And _KeyDown(PGUPkey&) Then LALT_PGUP = 1 Else LALT_PGUP = 0
01,974 If _KeyDown(LALTkey&) And _KeyDown(PGDNkey&) Then LALT_PGDN = 1 Else LALT_PGDN = 0
01,975
01,976 If _KeyDown(LALTkey&) And _KeyDown(LEFTkey&) Then LALT_Left = 1 Else LALT_Left = 0
01,977 If _KeyDown(LALTkey&) And _KeyDown(RIGHTkey&) Then LALT_Right = 1 Else LALT_Right = 0
01,978 If _KeyDown(LALTkey&) And _KeyDown(UPkey&) Then LALT_Up = 1 Else LALT_Up = 0
01,979 If _KeyDown(LALTkey&) And _KeyDown(DOWNkey&) Then LALT_Down = 1 Else LALT_Down = 0
01,980
01,981 'RALT:
01,982 If _KeyDown(RALTkey&) And _KeyDown(HOMEkey&) Then RALT_HOME = 1 Else RALT_HOME = 0
01,983 If _KeyDown(RALTkey&) And _KeyDown(ENDkey&) Then RALT_END = 1 Else RALT_END = 0
01,984
01,985 If _KeyDown(RALTkey&) And _KeyDown(INSkey&) Then RALT_INS = 1 Else RALT_INS = 0
01,986 If _KeyDown(RALTkey&) And _KeyDown(DELkey&) Then RALT_DEL = 1 Else RALT_DEL = 0
01,987
01,988 If _KeyDown(RALTkey&) And _KeyDown(PGUPkey&) Then RALT_PGUP = 1 Else RALT_PGUP = 0
01,989 If _KeyDown(RALTkey&) And _KeyDown(PGDNkey&) Then RALT_PGDN = 1 Else RALT_PGDN = 0
01,990
01,991 If _KeyDown(RALTkey&) And _KeyDown(LEFTkey&) Then Print RALT_Left = 1 Else RALT_Left = 0
01,992 If _KeyDown(RALTkey&) And _KeyDown(RIGHTkey&) Then Print RALT_Right = 1 Else RALT_Right = 0
01,993 If _KeyDown(RALTkey&) And _KeyDown(UPkey&) Then Print RALT_Up = 1 Else RALT_Up = 0
01,994 If _KeyDown(RALTkey&) And _KeyDown(DOWNkey&) Then Print RALT_Down = 1 Else RALT_Down = 0
01,995
01,996 'LSHIFT:
01,997 If _KeyDown(LSHIFTkey&) And _KeyDown(HOMEkey&) Then LSHIFT_HOME = 1 Else LSHIFT_HOME = 0
01,998 If _KeyDown(LSHIFTkey&) And _KeyDown(ENDkey&) Then LSHIFT_END = 1 Else LSHIFT_END = 0
01,999
02,000 If _KeyDown(LSHIFTkey&) And _KeyDown(INSkey&) Then LSHIFT_INS = 1 Else LSHIFT_INS = 0
02,001 If _KeyDown(LSHIFTkey&) And _KeyDown(DELkey&) Then LSHIFT_DEL = 1 Else LSHIFT_DEL = 0
02,002
02,003 If _KeyDown(LSHIFTkey&) And _KeyDown(PGUPkey&) Then LSHIFT_PGUP = 1 Else LSHIFT_PGUP = 0
02,004 If _KeyDown(LSHIFTkey&) And _KeyDown(PGDNkey&) Then LSHIFT_PGDN = 1 Else LSHIFT_PGDN = 0
02,005
02,006 If _KeyDown(LSHIFTkey&) And _KeyDown(LEFTkey&) Then LSHIFT_Left = 1 Else LSHIFT_Left = 0
02,007 If _KeyDown(LSHIFTkey&) And _KeyDown(RIGHTkey&) Then LSHIFT_Right = 1 Else LSHIFT_Right = 0
02,008 If _KeyDown(LSHIFTkey&) And _KeyDown(UPkey&) Then LSHIFT_Up = 1 Else LSHIFT_Up = 0

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02,009 If _KeyDown(LSHIFTkey&) And _KeyDown(DOWNkey&) Then LSHIFT_Down = 1 Else LSHIFT_Down = 0
02,010
02,011 'RSHIFT:
02,012 If _KeyDown(RSHIFTkey&) And _KeyDown(HOMEkey&) Then RSHIFT_HOME = 1 Else RSHIFT_HOME = 0
02,013 If _KeyDown(RSHIFTkey&) And _KeyDown(ENDkey&) Then RSHIFT_END = 1 Else RSHIFT_END = 0
02,014
02,015 If _KeyDown(RSHIFTkey&) And _KeyDown(INSkey&) Then RSHIFT_INS = 1 Else RSHIFT_INS = 0
02,016 If _KeyDown(RSHIFTkey&) And _KeyDown(DELkey&) Then RSHIFT_DEL = 1 Else RSHIFT_DEL = 0
02,017
02,018 If _KeyDown(RSHIFTkey&) And _KeyDown(PGUPkey&) Then RSHIFT_PGUP = 1 Else RSHIFT_PGUP = 0
02,019 If _KeyDown(RSHIFTkey&) And _KeyDown(PGDNkey&) Then RSHIFT_PGDN = 1 Else RSHIFT_PGDN = 0
02,020
02,021 If _KeyDown(RSHIFTkey&) And _KeyDown(LEFTkey&) Then RSHIFT_Left = 1 Else RSHIFT_Left = 0
02,022 If _KeyDown(RSHIFTkey&) And _KeyDown(RIGHTkey&) Then RSHIFT_Right = 1 Else RSHIFT_Right = 0
02,023 If _KeyDown(RSHIFTkey&) And _KeyDown(UPkey&) Then RSHIFT_Up = 1 Else RSHIFT_Up = 0
02,024 If _KeyDown(RSHIFTkey&) And _KeyDown(DOWNkey&) Then RSHIFT_Down = 1 Else RSHIFT_Down = 0
02,025
02,026 'LCTRL:
02,027 If _KeyDown(LCTRLkey&) And _KeyDown(HOMEkey&) Then LCTRL_HOME = 1 Else LCTRL_HOME = 0
02,028 If _KeyDown(LCTRLkey&) And _KeyDown(ENDkey&) Then LCTRL_END = 1 Else LCTRL_END = 0
02,029
02,030 If _KeyDown(LCTRLkey&) And _KeyDown(INSkey&) Then LCTRL_INS = 1 Else LCTRL_INS = 0
02,031 If _KeyDown(LCTRLkey&) And _KeyDown(DELkey&) Then LCTRL_DEL = 1 Else LCTRL_DEL = 0
02,032
02,033 If _KeyDown(LCTRLkey&) And _KeyDown(PGUPkey&) Then LCTRL_PGUP = 1 Else LCTRL_PGUP = 0
02,034 If _KeyDown(LCTRLkey&) And _KeyDown(PGDNkey&) Then LCTRL_PGDN = 1 Else LCTRL_PGDN = 0
02,035
02,036 If _KeyDown(LCTRLkey&) And _KeyDown(LEFTkey&) Then LCTRL_Left = 1 Else LCTRL_Left = 0
02,037 If _KeyDown(LCTRLkey&) And _KeyDown(RIGHTkey&) Then LCTRL_Right = 1 Else LCTRL_Right = 0
02,038 If _KeyDown(LCTRLkey&) And _KeyDown(UPkey&) Then LCTRL_Up = 1 Else LCTRL_Up = 0
02,039 If _KeyDown(LCTRLkey&) And _KeyDown(DOWNkey&) Then LCTRL_Down = 1 Else LCTRL_Down = 0
02,040
02,041 'RCTRL:
02,042 If _KeyDown(RCTRLkey&) And _KeyDown(HOMEkey&) Then RCTRL_HOME = 1 Else RCTRL_HOME = 0
02,043 If _KeyDown(RCTRLkey&) And _KeyDown(ENDkey&) Then RCTRL_END = 1 Else RCTRL_END = 0
02,044
02,045 If _KeyDown(RCTRLkey&) And _KeyDown(INSkey&) Then RCTRL_INS = 1 Else RCTRL_INS = 0
02,046 If _KeyDown(RCTRLkey&) And _KeyDown(DELkey&) Then RCTRL_DEL = 1 Else RCTRL_DEL = 0
02,047
02,048 If _KeyDown(RCTRLkey&) And _KeyDown(PGUPkey&) Then RCTRL_PGUP = 1 Else RCTRL_PGUP = 0
02,049 If _KeyDown(RCTRLkey&) And _KeyDown(PGDNkey&) Then RCTRL_PGDN = 1 Else RCTRL_PGDN = 0
02,050
02,051 If _KeyDown(RCTRLkey&) And _KeyDown(LEFTkey&) Then RCTRL_Left = 1 Else RCTRL_Left = 0
02,052 If _KeyDown(RCTRLkey&) And _KeyDown(RIGHTkey&) Then RCTRL_Right = 1 Else RCTRL_Right = 0
02,053 If _KeyDown(RCTRLkey&) And _KeyDown(UPkey&) Then RCTRL_Up = 1 Else RCTRL_Up = 0
02,054 If _KeyDown(RCTRLkey&) And _KeyDown(DOWNkey&) Then RCTRL_Down = 1 Else RCTRL_Down = 0
02,055
02,056 'LSHIFT+LCTRL: NOTICE: LSHIFT+LCTRL+Left triggers 3 variables on - 1] LSHIFT_LCTRL_Left 2] LSHIFT_Left 3] LCTRL_Left
02,057 If _KeyDown(LSHIFTkey&) And _KeyDown(LCTRLkey&) And _KeyDown(HOMEkey&) Then LSHIFT_LCTRL_HOME = 1 Else LSHIFT_LCTRL_HOME = 0
02,058 If _KeyDown(LSHIFTkey&) And _KeyDown(LCTRLkey&) And _KeyDown(ENDkey&) Then LSHIFT_LCTRL_END = 1 Else LSHIFT_LCTRL_END = 0
02,059
02,060 If _KeyDown(LSHIFTkey&) And _KeyDown(LCTRLkey&) And _KeyDown(INSkey&) Then LSHIFT_LCTRL_INS = 1 Else LSHIFT_LCTRL_INS = 0
02,061 If _KeyDown(LSHIFTkey&) And _KeyDown(LCTRLkey&) And _KeyDown(DELkey&) Then LSHIFT_LCTRL_DEL = 1 Else LSHIFT_LCTRL_DEL = 0
02,062
02,063 If _KeyDown(LSHIFTkey&) And _KeyDown(LCTRLkey&) And _KeyDown(PGUPkey&) Then LSHIFT_LCTRL_PGUP = 1 Else LSHIFT_LCTRL_PGUP = 0
02,064 If _KeyDown(LSHIFTkey&) And _KeyDown(LCTRLkey&) And _KeyDown(PGDNkey&) Then LSHIFT_LCTRL_PGDN = 1 Else LSHIFT_LCTRL_PGDN = 0
02,065
02,066 If _KeyDown(LSHIFTkey&) And _KeyDown(LCTRLkey&) And _KeyDown(LEFTkey&) Then LSHIFT_LCTRL_Left = 1 Else LSHIFT_LCTRL_Left = 0
02,067 If _KeyDown(LSHIFTkey&) And _KeyDown(LCTRLkey&) And _KeyDown(RIGHTkey&) Then LSHIFT_LCTRL_Right = 1 Else LSHIFT_LCTRL_Right = 0
02,068 If _KeyDown(LSHIFTkey&) And _KeyDown(LCTRLkey&) And _KeyDown(UPkey&) Then LSHIFT_LCTRL_Up = 1 Else LSHIFT_LCTRL_Up = 0
02,069 If _KeyDown(LSHIFTkey&) And _KeyDown(LCTRLkey&) And _KeyDown(DOWNkey&) Then LSHIFT_LCTRL_Down = 1 Else LSHIFT_LCTRL_Down = 0
02,070
02,071 'LSHIFT:
02,072 If _KeyDown(LSHIFTkey&) And _KeyDown(BACKSPACEkey&) Then LSHIFT_BackSpace = 1 Else LSHIFT_BackSpace = 0
02,073 If _KeyDown(LSHIFTkey&) And _KeyDown(TABkey&) Then LSHIFT_TAB = 1 Else LSHIFT_TAB = 0
02,074 If _KeyDown(LSHIFTkey&) And _KeyDown(SPACEkey&) Then LSHIFT_SPACE = 1 Else LSHIFT_SPACE = 0
02,075 If _KeyDown(LSHIFTkey&) And _KeyDown(ESCKey&) Then LSHIFT_ESC = 1 Else LSHIFT_ESC = 0
02,076 If _KeyDown(LSHIFTkey&) And _KeyDown(ENTERkey&) Then LSHIFT_ENTER = 1 Else LSHIFT_ENTER = 0
02,077 'RSHIFT:
02,078 If _KeyDown(RSHIFTkey&) And _KeyDown(BACKSPACEkey&) Then RSHIFT_BackSpace = 1 Else RSHIFT_BackSpace = 0
02,079 If _KeyDown(RSHIFTkey&) And _KeyDown(TABkey&) Then RSHIFT_TAB = 1 Else RSHIFT_TAB = 0
02,080 If _KeyDown(RSHIFTkey&) And _KeyDown(SPACEkey&) Then RSHIFT_SPACE = 1 Else RSHIFT_SPACE = 0
02,081 If _KeyDown(RSHIFTkey&) And _KeyDown(ESCKey&) Then RSHIFT_ESC = 1 Else RSHIFT_ESC = 0
02,082 If _KeyDown(RSHIFTkey&) And _KeyDown(ENTERkey&) Then RSHIFT_ENTER = 1 Else RSHIFT_ENTER = 0
02,083
02,084 'LCTRL:
02,085 If _KeyDown(LCTRLkey&) And _KeyDown(SPACEkey&) Then LCTRL_SPACE = 1 Else LCTRL_SPACE = 0
02,086 If _KeyDown(LCTRLkey&) And _KeyDown(ENTERkey&) Then LCTRL_ENTER = 1 Else LCTRL_ENTER = 0
02,087 'RCTRL:
02,088 If _KeyDown(RCTRLkey&) And _KeyDown(SPACEkey&) Then RCTRL_SPACE = 1 Else RCTRL_SPACE = 0
02,089 If _KeyDown(RCTRLkey&) And _KeyDown(ENTERkey&) Then RCTRL_ENTER = 1 Else RCTRL_ENTER = 0
02,090
02,091 '_KEYCLEAR
02,092 End Sub
02,093
02,094 Sub ExpandTabs (I$)
02,095 Shared XdimCOL
02,096 If InStr(I$, Chr$(9)) Then
02,097     TabV% = 8
02,098     b$ = "": f& = 0
02,099     PossibleRecalculation = Len(I$)
02,100     For i& = 1 To MIN&(PossibleRecalculation, XdimCOL) ' LEN(I$) ' For some reason going all the length is too slow...?! As it is, the lateral scroll is crippled!
02,101         RemoveSpecial$ = Mid$(I$, i&, 1)
02,102         If RemoveSpecial$ = Chr$(9) Then
02,103             b$ = b$ + String$(f& \ TabV%) * TabV% + TabV% - f&, " ")
02,104             |
02,105             |
02,106             | \ /
02,107             | 'TabV% - (f% - (f% \ TabV%) * TabV%) =
02,108             | 'TabV% - (f% MOD TabV%)

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02,109         f& = (f& \ TabV%) * TabV% + TabV%
02,110     Else
02,111         b$ = b$ + RemoveSpecial$ 'MID$(1$, i&, 1)
02,112         f& = f& + 1
02,113     End If
02,114     Next
02,115     1$ = b$
02,116 End If
02,117 End Sub
02,118
02,119 Function MIN& (YdimROW, filecount)
02,120     If YdimROW < filecount Then MIN& = YdimROW Else MIN& = filecount
02,121 End Function
02,122
02,123 Function AddCommas$ (numeral)
02,124     s$ = LTrim$(Str$(numeral))
02,125     If Len(s$) > 3 Then
02,126         If (Len(s$) Mod 3) Then x$ = String$(3 - (Len(s$) Mod 3), " ") + s$ Else x$ = s$
02,127         s$ = ""
02,128         For i = 1 To Len(x$) Step 3
02,129             s$ = s$ + Mid$(x$, i, 3) + ", "
02,130         Next
02,131         s$ = Left$(s$, Len(s$) - 1)
02,132     End If
02,133     AddCommas$ = LTrim$(s$)
02,134 End Function
02,135
02,136 Function AddCommasPaddedNUM$ (numeral)
02,137     Shared FieldLineNum
02,138     s$ = LTrim$(Str$(numeral))
02,139     If Len(s$) > 3 Then
02,140         If (Len(s$) Mod 3) Then x$ = String$(3 - (Len(s$) Mod 3), " ") + s$ Else x$ = s$
02,141         s$ = ""
02,142         For i = 1 To Len(x$) Step 3
02,143             s$ = s$ + Mid$(x$, i, 3) + ", "
02,144         Next
02,145         s$ = Left$(s$, Len(s$) - 1)
02,146     End If
02,147     s$ = LTrim$(s$)
02,148     Padded$ = Right$("000,000,000,000", FieldLineNum)
02,149     Mid$(Padded$, Len(Padded$) - Len(s$) + 1, Len(s$)) = s$
02,150     AddCommasPaddedNUM$ = Padded$
02,151 End Function
02,152
02,153 Function AddCommasPaddedLEN$ (numeral)
02,154     Shared FieldLineLen
02,155     s$ = LTrim$(Str$(numeral))
02,156     If Len(s$) > 3 Then
02,157         If (Len(s$) Mod 3) Then x$ = String$(3 - (Len(s$) Mod 3), " ") + s$ Else x$ = s$
02,158         s$ = ""
02,159         For i = 1 To Len(x$) Step 3
02,160             s$ = s$ + Mid$(x$, i, 3) + ", "
02,161         Next
02,162         s$ = Left$(s$, Len(s$) - 1)
02,163     End If
02,164     s$ = LTrim$(s$)
02,165     Padded$ = Right$("000,000,000,000", FieldLineLen)
02,166     Mid$(Padded$, Len(Padded$) - Len(s$) + 1, Len(s$)) = s$
02,167     AddCommasPaddedLEN$ = Padded$
02,168 End Function
02,169
02,170 Sub UpdateCLL (1, posit)
02,171     Shared YdimROW, FileArray$()
02,172     crx = Pos(0)
02,173     cry = CsrLin
02,174     Locate YdimROW + 1, posit: Color 9, 0
02,175     Print "; Line Number: " + AddCommasPaddedNUM$(1);
02,176     Print "; Line Length: " + AddCommasPaddedLEN$(Len(FileArray$(1)));
02,177     Locate cry, crx, 1, 30, 31
02,178 End Sub
02,179
02,180 Sub UpdateNextTOCCL_BUSY (posit)
02,181     Shared YdimROW
02,182     crx = Pos(0)
02,183     cry = CsrLin
02,184     Locate YdimROW + 1, posit: Color 9, 0: Print "; Status: BUSY";
02,185     Locate cry, crx, 1, 30, 31
02,186 End Sub
02,187
02,188 Sub UpdateNextTOCCL_DONE (posit)
02,189     Shared YdimROW
02,190     crx = Pos(0)
02,191     cry = CsrLin
02,192     Locate YdimROW + 1, posit: Color 9, 0: Print "; Status: DONE";
02,193     Locate cry, crx, 1, 30, 31
02,194 End Sub
02,195
02,196 Sub UpdateNextTOCCL_UNWRAPPABLEcount (posit)
02,197     Shared YdimROW
02,198     Shared UnwrappableLines
02,199     crx = Pos(0)
02,200     cry = CsrLin
02,201     Locate YdimROW + 1, posit: Color 9, 0: Print "; Unwrappable Lines: " + AddCommas$(UnwrappableLines);
02,202     Locate cry, crx, 1, 30, 31
02,203 End Sub
02,204
02,205 Sub UpdateCLine (lineToWrite, columnToWrite, FRGR, BACKGR, ln)
02,206     Shared FileArrayWINDOW$()
02,207     Shared XdimCOL
02,208     Shared CurrentWord$

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02,209 crx = Pos(0)
02,210 cry = CsrLin
02,211 Color FRGR, BACKGR
02,212 Locate LineToWrite, columnToWrite, 1, 30, 31
02,213 Print FileArrayWINDOW$(ln);
02,214 'get the word under the cursor [
02,215 LeftM = crx: RightM = crx 'both can go within 1..XdimCOL
02,216 CurrentChar$ = Mid$(FileArrayWINDOW$(ln), LeftM, 1)
02,217 If (CurrentChar$ >= "a" And CurrentChar$ <= "z") Or (CurrentChar$ >= "A" And CurrentChar$ <= "Z") Then
02,218   Do While LeftM > 1
02,219     CurrentChar$ = Mid$(FileArrayWINDOW$(ln), LeftM - 1, 1)
02,220     If (CurrentChar$ >= "a" And CurrentChar$ <= "z") Or (CurrentChar$ >= "A" And CurrentChar$ <= "Z") Then
02,221       LeftM = LeftM - 1
02,222     Else
02,223       Exit Do
02,224     End If
02,225   Loop
02,226   Do While RightM < XdimCOL
02,227     CurrentChar$ = Mid$(FileArrayWINDOW$(ln), RightM + 1, 1)
02,228     If (CurrentChar$ >= "a" And CurrentChar$ <= "z") Or (CurrentChar$ >= "A" And CurrentChar$ <= "Z") Then
02,229       RightM = RightM + 1
02,230     Else
02,231       Exit Do
02,232     End If
02,233   Loop
02,234 End If
02,235 If RightM - LeftM > 0 Then CurrentWord$ = Mid$(FileArrayWINDOW$(ln), LeftM, RightM - LeftM + 1) Else CurrentWord$ = ""
02,236 'get the word under the cursor ]
02,237 Locate cry, crx, 1, 30, 31
02,238 End Sub
02,239
02,240 Sub UpdateWindowFrame (FRGR, BACKGR)
02,241 Shared YdimROW, filecount, File_Frame_y, File_Frame_x, XdimCOL, FileArrayWINDOW$( ), FileArray$( )
02,242 Color FRGR, BACKGR
02,243 If YdimROW > filecount Then
02,244   For i = 1 To YdimROW
02,245     Locate i, 1: Print Space$(XdimCOL);
02,246   Next
02,247 End If
02,248 For i = 1 To MIN$(YdimROW, filecount)
02,249   DumboReadOnceNotThrice$ = FileArray$(i + (File_Frame_y - 1))
02,250   If Len(DumboReadOnceNotThrice$) >= XdimCOL Then
02,251     FileArrayWINDOW$(i) = Mid$(DumboReadOnceNotThrice$, File_Frame_x, XdimCOL)
02,252   Else
02,253     FileArrayWINDOW$(i) = DumboReadOnceNotThrice$ + Space$(XdimCOL - Len(DumboReadOnceNotThrice$))
02,254   End If
02,255   'since r.8 the goal is to browse properly binary/.tar files
02,256   For j = 1 To Len(FileArrayWINDOW$(i))
02,257     If Mid$(FileArrayWINDOW$(i), j, 1) < " " Then Mid$(FileArrayWINDOW$(i), j, 1) = Chr$(32)
02,258   Next
02,259   Locate i, 1: Print FileArrayWINDOW$(i);
02,260 Next
02,261 End Sub
02,262
02,263 Sub ReportTimeToLoad (posit)
02,264 Shared YdimROW, XdimCOL
02,265 Shared TimeA, TimeB
02,266 crx = Pos(0)
02,267 cry = CsrLin
02,268 ElapsedTime% = TimeB - TimeA
02,269 If ElapsedTime% < 0 Then ElapsedTime% = (86400 - TimeA) + TimeB
02,270 Paddedstr$ = "; Loaded in " + LTrim$(Str$(ElapsedTime%)) + " seconds."
02,271 '
02,272 '[123456] (8-5)-1=2
02,273 Locate YdimROW + 1, posit: Color 4, 0: Print Space$(XdimCOL - posit) - 1);
02,274 Locate YdimROW + 1, posit: Color 4, 0: Print Paddedstr$;
02,275 Locate cry, crx, 1, 30, 31
02,276 End Sub
02,277
02,278 Sub ReportTimeToScroll (posit)
02,279 Shared YdimROW, XdimCOL
02,280 Shared TimeScrollA, TimeScrollB
02,281 Shared LineScrollBenchmark
02,282 Shared PageScrollBenchmark
02,283 Shared filecount
02,284 crx = Pos(0)
02,285 cry = CsrLin
02,286 ElapsedTime% = TimeScrollB - TimeScrollA
02,287 If ElapsedTime% < 0 Then ElapsedTime% = (86400 - TimeScrollA) + TimeScrollB
02,288 If ElapsedTime% = 0 Then ElapsedTime% = 1
02,289 'Line-By-Line or Line granularity Scroll Rate; LPS stands for Lines-Per-Second
02,290 'Page-By-Page or Page granularity Scroll Rate; PPS stands for Pages-Per-Second
02,291 Locate YdimROW + 1, posit: Color 4, 0: Print Space$(XdimCOL - posit) - 1);
02,292 If XdimCOL = 198 Then
02,293   If LineScrollBenchmark = 1 Then Locate YdimROW + 1, posit: Color 4, 0: Print "; DOWNed in"; ElapsedTime%; "seconds, or "; AddCommasPaddedLEN$(filecount / ElapsedTime%); " LPS";
02,294   If PageScrollBenchmark = 1 Then Locate YdimROW + 1, posit: Color 4, 0: Print "; PGDned in"; ElapsedTime%; "seconds, or "; AddCommasPaddedLEN$(filecount / YdimROW) /
02,295   ElapsedTime%; " PPS";
02,296 Else
02,297   If LineScrollBenchmark = 1 Then Locate YdimROW + 1, posit: Color 4, 0: Print "; DOWNed in"; ElapsedTime%; "seconds.";
02,298   If PageScrollBenchmark = 1 Then Locate YdimROW + 1, posit: Color 4, 0: Print "; PGDned in"; ElapsedTime%; "seconds.";
02,299 End If
02,299 Locate cry, crx, 1, 30, 31
02,300 End Sub
02,301
02,302 Function FileArray$(i)
02,303 Shared QWORD, LineLen13
02,304 'SHARED ThewholeFile$
02,305 _MemGet MhandleOFF, MhandleOFF.OFFSET + &&& * (i - 1), QWORD
02,306 _MemGet MhandleLEN, MhandleLEN.OFFSET + &&& * (i - 1), LineLen13
02,307 If ToLoadOrNotFlag Then

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02,308 'BufferForLine$ = MID$(TheWholeFile$, QWORD, LineLen13)
02,309 BufferForLine$ = Space$(LineLen13)
02,310 _MemGet Mwholefile, Mwholefile.OFFSET + (QWORD - 1), BufferForLine$
02,311 Else
02,312 BufferForLine$ = Space$(LineLen13)
02,313 Seek #1, QWORD
02,314 Get #1, , BufferForLine$
02,315 End If
02,316 ExpandTabs (BufferForLine$)
02,317 FileArray$ = BufferForLine$
02,318 End Function
02,319
02,320 Sub ShowIndigowindow
02,321 'COLOR 8, 0: LOCATE i, 1 + LEN(FileArrayWINDOW$(i)): PRINT CHR$(179);: COLOR FRGR, BACKGR
02,322 End Sub
02,323
02,324 'http://rosettacode.org/wiki/Levenshtein_distance#FutureBasic
02,325 'FutureBasic
02,326 'Based on Wikipedia algorithm. Suitable for Pascal strings.
02,327
02,328 'include "consolewindow"
02,329
02,330 'local fn LevenshteinDistance( aStr as Str255, bStr as Str255 ) as long
02,331 'dim as long m, n, i, j, min, k, l
02,332 'dim as long distance( 255, 255 )
02,333
02,334 'm = len(aStr)
02,335 'n = len(bStr)
02,336
02,337 'for i = 0 to m
02,338 ' distance( i, 0 ) = i
02,339 'next
02,340
02,341 'for j = 0 to n
02,342 ' distance( 0, j ) = j
02,343 'next
02,344
02,345 'for j = 1 to n
02,346 ' for i = 1 to m
02,347 ' if mid$( aStr, i, 1 ) == mid$( bStr, j, 1 )
02,348 ' distance( i, j ) = distance( i-1, j-1 )
02,349 ' else
02,350 ' min = distance( i-1, j ) + 1
02,351 ' k = distance( i, j - 1 ) + 1
02,352 ' l = distance( i-1, j-1 ) + 1
02,353 ' if k < min then min = k
02,354 ' if l < min then min = l
02,355 ' distance( i, j ) = min
02,356 ' end if
02,357 ' next
02,358 'next
02,359 'end fn = distance( m, n )
02,360
02,361 'dim as long i
02,362 'dim as Str255 testStr( 5, 2 )
02,363
02,364 'testStr( 0, 0 ) = "kitten" : testStr( 0, 1 ) = "sitting"
02,365 'testStr( 1, 0 ) = "rosettacode" : testStr( 1, 1 ) = "raisethyword"
02,366 'testStr( 2, 0 ) = "Saturday" : testStr( 2, 1 ) = "Sunday"
02,367 'testStr( 3, 0 ) = "FutureBasic" : testStr( 3, 1 ) = "FutureBasic"
02,368 'testStr( 4, 0 ) = "here's a bunch of words"
02,369 'testStr( 4, 1 ) = "to wring out this code"
02,370
02,371 'for i = 0 to 4
02,372 ' print "1st string = "; testStr( i, 0 )
02,373 ' print "2nd string = "; testStr( i, 1 )
02,374 ' print "Levenshtein distance ="; fn LevenshteinDistance( testStr( i, 0 ), testStr( i, 1 ) )
02,375 ' print
02,376 'next
02,377
02,378 'Output:
02,379
02,380 '1st string = kitten
02,381 '2nd string = sitting
02,382 'Levenshtein distance = 3
02,383
02,384 '1st string = rosettacode
02,385 '2nd string = raisethyword
02,386 'Levenshtein distance = 8
02,387
02,388 '1st string = Saturday
02,389 '2nd string = Sunday
02,390 'Levenshtein distance = 3
02,391
02,392 '1st string = FutureBasic
02,393 '2nd string = FutureBasic
02,394 'Levenshtein distance = 0
02,395
02,396 '1st string = here's a bunch of words
02,397 '2nd string = to wring out this code
02,398 'Levenshtein distance = 18
02,399
02,400 'In information theory and computer science, the Levenshtein distance is a metric for measuring the amount of difference between two sequences (i.e. an edit distance). The Levenshtein distance between two strings is defined as the minimum number of edits needed to transform one string into the other, with the allowable edit operations being insertion, deletion, or substitution of a single character.
02,401
02,402 Sub DrawBoxShadow3 (TopLrow, TopLcol, BottomRow, BottomRcol, Captnn$)
02,403 Shared FileSize
02,404 Shared LoadedFile$
02,405 Shared PSPlike$

```

```

02,406 Shared YdimROW, filecount, File_Frame_y, XdimCOL, FileArrayWINDOW$( ), FileArray$(
02,407 'Shadow
02,408 BckGRcolor = 4
02,409 Color 8, BACKGR
02,410 For i = 1 To MIN(YdimROW, filecount)
02,411     'DumboReadOnceNotThrice$ = FileArray$(i + (File_Frame_y - 1))
02,412     'IF LEN(DumboReadOnceNotThrice$) >= XdimCOL THEN
02,413         'FileArrayWINDOW$(i) = MID$(DumboReadOnceNotThrice$, 1, XdimCOL)
02,414     'ELSE
02,415         'FileArrayWINDOW$(i) = DumboReadOnceNotThrice$ + SPACE$(XdimCOL - LEN(DumboReadOnceNotThrice$))
02,416     'END IF
02,417     If i >= TopLrow + 1 And i <= BottomRrow + 1 Then
02,418         Locate i, TopLcol + 1: Print Mid$(FileArrayWINDOW$(i), TopLcol + 1, BottomRcol - TopLcol + 1);
02,419     End If
02,420 Next
02,421 'Outer frame
02,422 Locate TopLrow, TopLcol
02,423 Color 7, BckGRcolor
02,424 Print Chr$(218); String$(BottomRcol - TopLcol - 1, Chr$(196));
02,425 Color 0, BckGRcolor: Print Chr$(191);
02,426 Color 7, BckGRcolor: Locate TopLrow, TopLcol + 2: Print "[ "; Color 15, BckGRcolor: Print Capttn$; Color 7, BckGRcolor: Print " ]";
02,427 For i = TopLrow + 1 To BottomRrow - 1
02,428     Color 7, BckGRcolor: Locate i, TopLcol: Print Chr$(179); String$(BottomRcol - TopLcol - 1, Chr$(32)); Color 0, BckGRcolor: Print Chr$(179);
02,429 Next
02,430 Locate BottomRrow, TopLcol
02,431 Color 7, BckGRcolor: Print Chr$(192);
02,432 Color 0, BckGRcolor: Print String$(BottomRcol - TopLcol - 1, Chr$(196)); Chr$(217)
02,433 'Inner frame
02,434 'In case of YdimROW = 40 then shrunk panel
02,435 If YdimROW = 40 Then shrunkP = 14 Else shrunkP = 0
02,436 Locate TopLrow + 38 - shrunkP, TopLcol + 1
02,437 Color 0, BckGRcolor
02,438 Print Chr$(218); String$(BottomRcol - 1 - (TopLcol + 1) - 1, Chr$(196));
02,439 Color 7, BckGRcolor: Print Chr$(191);
02,440 For i = TopLrow + 39 - shrunkP To TopLrow + 40 - shrunkP
02,441     Color 0, BckGRcolor: Locate i, TopLcol + 1: Print Chr$(179); String$(BottomRcol - 1 - (TopLcol + 1) - 1, Chr$(32)); Color 7, BckGRcolor: Print Chr$(179);
02,442 Next
02,443 Locate TopLrow + 40 - shrunkP, TopLcol + 1
02,444 Color 0, BckGRcolor: Print Chr$(192);
02,445 Color 7, BckGRcolor: Print String$(BottomRcol - 1 - (TopLcol + 1) - 1, Chr$(196)); Chr$(217)
02,446
02,447 Locate TopLrow + 2, TopLcol + 2
02,448 'PRINT " "
02,449 'PRINT " | / / \ \ / / \ \ | | | | \ \ / / \ \ | | "
02,450 'PRINT " | | \ \ / / \ \ | | | | \ \ / / \ \ | | "
02,451 'PRINT " | | \ \ / / \ \ | | | | \ \ / / \ \ | | "
02,452 'PRINT " | | \ \ / / \ \ | | | | \ \ / / \ \ | | "
02,453 Color 7, BckGRcolor
02,454 Print " _____ ._"
02,455 Locate , TopLcol + 2
02,456 Print "| | / / \ \ / / \ \ | | | | \ \ / / \ \ | | "
02,457 Locate , TopLcol + 2
02,458 Print "| | < \ \ \ \ \ \ \ \ | | | | \ \ / / \ \ | | "
02,459 Locate , TopLcol + 2
02,460 Print "| | \ \ / / \ \ / / \ \ | | Y \ \ \ \ | | \ \ / / \ \ | | "
02,461 Locate , TopLcol + 2
02,462 Print "| | \ \ / / \ \ / / \ \ | | / \ \ / \ \ / \ \ / "
02,463 Locate , TopLcol + 2
02,464 Print " | | \ \ / / \ \ / / \ \ | | \ \ / / \ \ / / \ \ | | "
02,465 Locate , TopLcol + 2
02,466 Print " | | \ \ / / \ \ / / \ \ | | \ \ / / \ \ / / \ \ | | "
02,467
02,468 Locate , TopLcol + 2
02,469 Print "A typhoon-class exact & wildcards & Levenshtein Distance (wagner-Fischer) searcherss"
02,470 Print ""
02,471 Locate , TopLcol + 2
02,472 Print "Note1: The dump (resultant hits) goes to Kazahana.txt file."
02,473 Locate , TopLcol + 2
02,474 Print "Note2: Nine SLOW wildcards are available:"
02,475 Locate , TopLcol + 2
02,476 Print " wildcard '*' any character(s) or empty,"
02,477 Locate , TopLcol + 2
02,478 Print " wildcard '.' any ALPHA character(s) or empty,"
02,479 Locate , TopLcol + 2
02,480 Print " wildcard '^' any NON-ALPHA character(s) or empty,"
02,481 Locate , TopLcol + 2
02,482 Print " wildcard '@'/'#' any character {or empty}/{and not empty},"
02,483 Locate , TopLcol + 2
02,484 Print " wildcard '^'/'$' any ALPHA character {or empty}/{and not empty},"
02,485 Locate , TopLcol + 2
02,486 Print " wildcard '|'|'~' any NON-ALPHA character {or empty}/{and not empty}."
02,487 Locate , TopLcol + 2
02,488 Print "Note3: Two FAST wildcards are available:"
02,489 Locate , TopLcol + 2
02,490 Print " wildcard '&' any character(s) or empty,"
02,491 Locate , TopLcol + 2
02,492 Print " wildcard '+' any character and not empty."
02,493 Locate , TopLcol + 2
02,494 Print "Note4: Don't mix SLOW and FAST, the SLOW overrides the FAST."
02,495 If shrunkP = 0 Then
02,496     Locate , TopLcol + 2
02,497     Print "Exact Case-Sensitive 16-threaded search for all lines up to 26208 chars long:"
02,498     Locate , TopLcol + 2
02,499     Print "Example1: Arnold"
02,500     Locate , TopLcol + 2
02,501     Print "Example2: "; Chr$(34); "metal fatigue"; Chr$(34)
02,502     Locate , TopLcol + 2
02,503     Print "Wildcard Case-Insensitive 16-threaded search for all lines up to 26208 chars long:"
02,504     Locate , TopLcol + 2
02,505     Print "Example3: "; Chr$(34); "outAAAAAAAAAAAAAize*"; Chr$(34)

```

```

02,506 Locate , TopLcol + 2
02,507 Print " Possible hits within a line starting with 0|o: outhyperbolize, OUTSIZE, outsized"
02,508 Locate , TopLcol + 2
02,509 Print "NORMAL/EXHAUSTIVE Fuzzy Case-Insensitive 16-threaded search for all lines up to 156/26208 chars long:"
02,510 Locate , TopLcol + 2
02,511 Print "Example4: 3 psychedlicize"
02,512 Locate , TopLcol + 2
02,513 Print " This line '1234psychedlicize' won't match."
02,514 Locate , TopLcol + 2
02,515 Print "Example5: 2e edelvais"
02,516 Locate , TopLcol + 2
02,517 Print " Possible hits: edelweiss, edelweisses, psychedelicism"
02,518 Locate , TopLcol + 2
02,519 Print "Note5: Levenshtein search can be NORMAL, as in Example4, matching the whole line."
02,520 Locate , TopLcol + 2
02,521 Print "Note6: Levenshtein search can be EXHAUSTIVE, as in Example5, if LD is postfixed with 'e',"
02,522 Locate , TopLcol + 2
02,523 Print " matching each position in the line."
02,524 Locate , TopLcol + 2
02,525 Print "Note7: The Needle/Pattern below is set by default as the Current word or the CLIPBOARD."
02,526 End If
02,527 Color 7, BckGRcolor
02,528 HelpLine$ = "Edit keys, allowed: Home, Left, Right, End, Backspace, Del"
02,529 Locate TopLrow + 41 - shrunkP, TopLcol + 2: Print HelpLine$
02,530 _Display
02,531 AddTokazahana$ = InputLine$(TopLrow + 39 - shrunkP, TopLcol + 2, BottomRcol - TopLcol - 1 - 2)
02,532 StartSt$ = Date$ + " " + Time$
02,533 Locate TopLrow + 41 - shrunkP, TopLcol + 2: Print String$(Len(HelpLine$), " ")
02,534 Locate TopLrow + 41 - shrunkP, TopLcol + 2: Print "Start: "; StartSt$
02,535 Locate 1, 1, 0, 30, 31
02,536 _Display
02,537
02,538 TimeK1# = Timer(.01)
02,539 $If WINDOWS Then
02,540 PRINT #13, CHR$(34) + PSPLike$ + "kazahana.exe" + CHR$(34) + " " + AddTokazahana$ + " " + CHR$(34) + LoadedFile$ + CHR$(34) + " 30539"
02,541 $End If
02,542 $If WINDOWS Then
02,543 'SHELL _DONTWAIT _HIDE CHR$(34) + PSPLike$ + "kazahana_Hexadecad_GCC_472_SSE41_32bit.exe" + CHR$(34) + " " + AddTokazahana$ + " " + CHR$(34) + LoadedFile$ + CHR$(34) + " 1539" '9
is odd therefore no dump of pattern field, 9 is bigger than 4 therefore case insensitive wildcard search.
02,544 SHELL _HIDE CHR$(34) + PSPLike$ + "kazahana.exe" + CHR$(34) + " " + AddTokazahana$ + " " + CHR$(34) + LoadedFile$ + CHR$(34) + " 30539" '9 is odd therefore no dump of pattern
field, 9 is bigger than 4 therefore case insensitive wildcard search.
02,545 $Else
02,546 Shell _Hide Chr$(34) + PSPLike$ + "kazahana" + Chr$(34) + " " + AddTokazahana$ + " " + Chr$(34) + LoadedFile$ + Chr$(34) + " 30539" '9 is odd therefore no dump of pattern field,
9 is bigger than 4 therefore case insensitive wildcard search.
02,547 $End If
02,548 TimeK2# = Timer(.01)
02,549 SearchTime! = TimeK2# - TimeK1#
02,550 If SearchTime! < 0 Then SearchTime! = (86400 - TimeK1#) + TimeK2#
02,551 Locate TopLrow + 42 - shrunkP, TopLcol + 2: Print "Ready: "; Date$ + " " + Time$
02,552 f = FreeFile
02,553 Open "kazahana.txt" For Binary As #f
02,554 KazLen = LOF(f)
02,555 Close #f
02,556 SearchRate = FileSize / (SearchTime! + 0.0001)
02,557 Locate TopLrow + 43 - shrunkP, TopLcol + 2: Print "Size of Kazahana.txt: "; AddCommas$(KazLen); " bytes"; "; Search-and-Dump Speed: "; AddCommas$(SearchRate); " bytes/s";
02,558 Locate TopLrow + 44 - shrunkP, TopLcol + 2: Print "Press Esc...";
02,559 _Display
02,560 $If WINDOWS Then
02,561 PLAY "v20120g"
02,562 $End If
02,563 Do While Inkey$ <> Chr$(27)
02,564 _Limit 30
02,565 Loop
02,566 Locate 1, 1, 1, 30, 31
02,567
02,568 'E:\_KAZE_SmXrt_Benchmarks\QB64_kit_v1.4.2.48 GB\qb64-kazahana_Hexadecad_GCC_472_SSE41_32bit.exe
02,569 'kazahana, a typhoon-class exact & wildcards & Levenshtein Distance (Wagner-Fischer) searcher, r. 1-+++fix+nowait_critical_nixFIX_Wolfram+fixITER+EX+CS_fix_DEFINE_Tro1ldom, copyleft
Kaze 2019-May-21.
02,570 'Usage: Kazahana [AtMostLevenshteinDistance][e] string textualfile MasterBufferSize
02,571 'Note0: MasterBufferSize is in KB, consider 1024, 3072, 7168 or bigger (up to 2GB). Three additional flags were mapped on this value: all dump
02,572 ' lines (except fuzzy's) will have/lack pattern-source info when the number is even/odd respectively, see Examples #5 and #6.
02,573 ' when MasterBufferSize ends in 0, then No-Dump i.e. hits are only counted.
02,574 'Note0a: Caution! Reported hits are not actual ones but all LINES containing a hit (or hits), e.g. for pattern 'Boom' a line as 'Boom-Boom!' yields one hit not two.
02,575 'Note1: There are three regimes: exact, wildcards and fuzzy searches. First two kick in when 3 parameters are given, fuzzy when 4.
02,576 'Note2: What decides whether exact or wildcards? Of course presence of at least one wildcard. To see exact search see Example #4.
02,577 'Note3: Exact search hits with 'Railgun_Tro1ldom', not 'Railgun_Sekireigan_Wolfram'.
02,578 'Note4a: Incoming string is automatically lowercased for fuzzy searches i.e. they are case insensitive.
02,579 'Note4b: Incoming string is NOT automatically lowercased for wildcards searches when MasterBufferSize ends in 0..4 i.e. they are case sensitive.
02,580 'Note4c: Incoming string is automatically lowercased for wildcards searches when MasterBufferSize ends in 5..9 i.e. they are case insensitive.
02,581 'Note5: Incoming string could be up to 26208/156 chars for Exact&Wildcard&ExhaustiveFuzzy/Fuzzy respectively.
02,582 'Note5a: Since 2013-Nov-21 Levenshtein search exits not when the incoming line is bigger than 156 chars, now it just skips longer lines.
02,583 'Note5b: Since 2013-Dec-05 Levenshtein search can be EXHAUSTIVE if LD is postfixed with 'e'.
02,584 'Note6: Incoming textualfile could be bigger than 4GB.
02,585 'Note7: Each line should end with [CR]LF, that is windows or/and UNIX style.
02,586 'Note8: The dump goes to Kazahana.txt file.
02,587 'Note9a: Nine SLOW wildcards are available:
02,588 ' wildcard '*' any character(s) or empty,
02,589 ' wildcard '.' any ALPHA character(s) or empty,
02,590 ' wildcard ':' any NON-ALPHA character(s) or empty,
02,591 ' wildcard '@'/'#' any character {or empty}/{and not empty},
02,592 ' wildcard '^'/'$' any ALPHA character {or empty}/{and not empty},
02,593 ' wildcard '!'/'~' any NON-ALPHA character {or empty}/{and not empty}.
02,594 'Note9b: Two FAST wildcards are available:
02,595 ' wildcard '&' any character(s) or empty,
02,596 ' wildcard '+' any character and not empty.
02,597 'Note9c: Don't mix SLOW and FAST, the SLOW overrides the FAST, i.e. presence of at least one of the 9 wildcards cancels FAST mode.
02,598 'Example1: E:\>kazahana 0 ramjet MASAKARI_General-Purpose_Grade_English_wordlist_r3_316423_words.wrd 1536
02,599 'Example2: E:\>kazahana 3 psychedlicize MASAKARI_General-Purpose_Grade_English_wordlist_r3_316423_words.wrd 1536
02,600 'Example3: E:\>kazahana "psychedlicize" MASAKARI_General-Purpose_Grade_English_wordlist_r3_316423_words.wrd 1536

```



```

02,701
02,702 Sub NextFrame (TopRow)
02,703   Shared ASCIIFrame
02,704   Shared PSPLike$
02,705   Locate TopRow, 73
02,706   ASCIIFrame = ASCIIFrame + 1
02,707   If ASCIIFrame > 20 Then ASCIIFrame = 1 '1..20
02,708   f = FreeFile
02,709   fr$ = LTrim$(Str$(ASCIIFrame))
02,710   If Len(fr$) = 1 Then fr$ = "0" + fr$
02,711   If _FileExists(PSPLike$ + "glass" + fr$ + ".txt") Then
02,712     Open PSPLike$ + "glass" + fr$ + ".txt" For Input As #f
02,713     Do While Not EOF(f)
02,714       Line Input #f, a$
02,715       Locate , 73
02,716       Print a$
02,717     Loop
02,718     Close #f
02,719   End If
02,720 End Sub
02,721
02,722 Sub NextFramePEN (TopRow)
02,723   Shared ASCIIFramePEN
02,724   Shared PSPLike$
02,725   Shared XdimCOL
02,726   If XdimCOL = 198 Then HorizPos = 128 Else HorizPos = 70
02,727   Locate TopRow, HorizPos
02,728   ASCIIFramePEN = ASCIIFramePEN + 1
02,729   If ASCIIFramePEN > 24 Then ASCIIFramePEN = 1 '1..20
02,730   f = FreeFile
02,731   fr$ = LTrim$(Str$(ASCIIFramePEN))
02,732   If Len(fr$) = 1 Then fr$ = "0" + fr$
02,733   If _FileExists(PSPLike$ + "pen" + fr$ + ".txt") Then
02,734     Open PSPLike$ + "pen" + fr$ + ".txt" For Input As #f
02,735     Do While Not EOF(f)
02,736       Line Input #f, a$
02,737       Locate , HorizPos
02,738       Print Right$(a$, 80 - 23)
02,739     Loop
02,740     Close #f
02,741   End If
02,742 End Sub
02,743
02,744 Sub ShowF1
02,745   PostFix$ = ""
02,746   'IF TOLoadOrNotFlag = 0 THEN PostFix$ = PostFix$ + "_External" ELSE PostFix$ = PostFix$ + "_Fast"
02,747   If WrapFlag = 1 Then PostFix$ = PostFix$ + "_Wrapper" Else PostFix$ = PostFix$ + "_Vanilla"
02,748   Print "Masakari, revision 8+" + PostFix$ + ", written in QB64 by Kaze, source code downloadable at https://www.qb64.org/forum"
02,749
02,750   $If WINDOWS Then
02,751     PRINT "Usage: Masakari [filename][[/help]"
02,752   $Else
02,753     Print "Usage: Masakari [filename][[-h]"
02,754   $End If
02,755   Print "Note: The 'filename' could be a filelist, i.e. a list of filenames (see Space and Double-Left-click)."

```

MEM.H:

```

00,001 #include<windows.h>
00,002 #include<stdio.h>

```

```

00,003 #include<tchar.h>
00,004
00,005
00,006 uint64 MemInUsePercent();
00,007 uint64 TotalPhysicalMem ();
00,008 uint64 FreePhysicalMem ();
00,009 uint64 TotalPagingFile ();
00,010 uint64 FreePagingFile ();
00,011 uint64 TotalVirtualMem ();
00,012 uint64 FreeVirtualMem ();
00,013 uint64 FreeExtendedMem ();
00,014
00,015 static float CalculateCPULoad();
00,016 static unsigned long long FileTimeToInt64();
00,017 float GetCPULoad();
00,018
00,019
00,020 uint64 MemInUsePercent () {
00,021     MEMORYSTATUSEX statex;
00,022     statex.dwLength = sizeof (statex);
00,023     GlobalMemoryStatusEx (&statex);
00,024     return statex.dwMemoryLoad;
00,025 }
00,026
00,027 uint64 TotalPhysicalMem () {
00,028     MEMORYSTATUSEX statex;
00,029     statex.dwLength = sizeof (statex);
00,030     GlobalMemoryStatusEx (&statex);
00,031     return statex.ullTotalPhys;
00,032 }
00,033
00,034 uint64 FreePhysicalMem () {
00,035     MEMORYSTATUSEX statex;
00,036     statex.dwLength = sizeof (statex);
00,037     GlobalMemoryStatusEx (&statex);
00,038     return statex.ullAvailPhys;
00,039 }
00,040
00,041 uint64 TotalPagingFile () {
00,042     MEMORYSTATUSEX statex;
00,043     statex.dwLength = sizeof (statex);
00,044     GlobalMemoryStatusEx (&statex);
00,045     return statex.ullTotalPageFile;
00,046 }
00,047
00,048 uint64 FreePagingFile () {
00,049     MEMORYSTATUSEX statex;
00,050     statex.dwLength = sizeof (statex);
00,051     GlobalMemoryStatusEx (&statex);
00,052     return statex.ullAvailPageFile;
00,053 }
00,054
00,055 uint64 TotalVirtualMem () {
00,056     MEMORYSTATUSEX statex;
00,057     statex.dwLength = sizeof (statex);
00,058     GlobalMemoryStatusEx (&statex);
00,059     return statex.ullTotalVirtual;
00,060 }
00,061
00,062 uint64 FreeVirtualMem () {
00,063     MEMORYSTATUSEX statex;
00,064     statex.dwLength = sizeof (statex);
00,065     GlobalMemoryStatusEx (&statex);
00,066     return statex.ullAvailVirtual;
00,067 }
00,068
00,069 uint64 FreeExtendedMem () {
00,070     MEMORYSTATUSEX statex;
00,071     statex.dwLength = sizeof (statex);
00,072     GlobalMemoryStatusEx (&statex);
00,073     return statex.ullAvailExtendedVirtual;
00,074 }
00,075
00,076 static float CalculateCPULoad(unsigned long long idleTicks, unsigned long long totalTicks)
00,077 {
00,078     static unsigned long long _previousTotalTicks = 0;
00,079     static unsigned long long _previousIdleTicks = 0;
00,080
00,081     unsigned long long totalTicksSinceLastTime = totalTicks - _previousTotalTicks;
00,082     unsigned long long idleTicksSinceLastTime = idleTicks - _previousIdleTicks;
00,083
00,084
00,085     float ret = 1.0f - ((totalTicksSinceLastTime > 0) ? ((float)idleTicksSinceLastTime) / totalTicksSinceLastTime : 0);
00,086
00,087     _previousTotalTicks = totalTicks;
00,088     _previousIdleTicks = idleTicks;
00,089     return ret;
00,090 }
00,091
00,092 static unsigned long long FileTimeToInt64(const FILETIME & ft)
00,093 {
00,094     return (((unsigned long long)(ft.dwHighDateTime)) << 32) | ((unsigned long long)ft.dwLowDateTime);
00,095 }
00,096
00,097 // Returns 1.0f for "CPU fully pinned", 0.0f for "CPU idle", or somewhere in between
00,098 // You'll need to call this at regular intervals, since it measures the load between
00,099 // the previous call and the current one. Returns -1.0 on error.
00,100 float GetCPULoad()
00,101 {
00,102     FILETIME idleTime, kernelTime, userTime;

```

```
00,103 return GetSystemTimes(&idleTime, &kernelTime, &userTime) ? CalculateCPULoad(FileTimeToInt64(idleTime), FileTimeToInt64(kernelTime) + FileTimeToInt64(userTime)) : -1.0f;
00,104 }
```

1251toGesch.bas:

REM Converting windows_cp1251 to Gesch codepage

```
$SCREENHIDE
$CONSOLE
_CONSOLE ON
_CONSOLETITLE "Gesch codepage convertor"
_DEST _CONSOLE
```

REM Microsoft_windows_cp1251: 'Cyrillic alphabet such as Russian, Bulgarian, Serbian Cyrillic and other languages. It is the most widely used for encoding the Bulgarian, Serbian and Macedonian languages.

```
REM 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143
REM DATA 1026,1027,8218,1107,8222,8230,8224,8225,8364,8240,1033,8249,1034,1036,1035,1039 '128+16*0 to 128+16*1-1
REM 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159
REM DATA 1106,8216,8217,8220,8221,8226,8211,8212,0 ,8482,1113,8250,1114,1116,1115,1119 '128+16*1 to 128+16*2-1
REM 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175
REM DATA 160 ,1038,1118,1032,164 ,1168,166 ,167 ,1025,169 ,1028,171 ,172 ,173 ,174 ,1031 '128+16*2 to 128+16*3-1
REM 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191
REM DATA 176 ,177 ,1030,1110,1169,181 ,182 ,183 ,1105,8470,1108,187 ,1112,1029,1109,1111 '128+16*3 to 128+16*4-1
REM Cyrillic:
REM DATA 1040,1041,1042,1043,1044,1045,1046,1047,1048,1049,1050,1051,1052,1053,1054,1055 '128+16*4 to 128+16*5-1
REM DATA 1056,1057,1058,1059,1060,1061,1062,1063,1064,1065,1066,1067,1068,1069,1070,1071 '128+16*5 to 128+16*6-1
REM DATA 1072,1073,1074,1075,1076,1077,1078,1079,1080,1081,1082,1083,1084,1085,1086,1087 '128+16*6 to 128+16*7-1
REM DATA 1088,1089,1090,1091,1092,1093,1094,1095,1096,1097,1098,1099,1100,1101,1102,1103 '128+16*7 to 128+16*8-1 --\
REM
```

REM Microsoft_pc_cpGESCH: 'Gesch is Sanmayce's layout, combining the MIK and 437, in this way:

```
REM
REM DATA 1040,1041,1042,1043,1044,1045,1046,1047,1048,1049,1050,1051,1052,1053,1054,1055 '128+16*0 to 128+16*1-1
REM DATA 1056,1057,1058,1059,1060,1061,1062,1063,1064,1065,1066,1067,1068,1069,1070,1071 '128+16*1 to 128+16*2-1
REM DATA 1072,1073,1074,1075,1076,1077,1078,1079,1080,1081,1082,1083,1084,1085,1086,1087 '128+16*2 to 128+16*3-1
REM
REM DATA 9617,9618,9619,9474,9508,9569,9570,9558,9557,9571,9553,9559,9565,9564,9563,9488 '128+16*3 to 128+16*4-1
REM DATA 9492,9524,9516,9500,9472,9532,9566,9567,9562,9556,9577,9574,9568,9552,9580,9575 '128+16*4 to 128+16*5-1
REM DATA 9576,9572,9573,9561,9560,9554,9555,9579,9578,9496,9484,9608,9604,9612,9616,9600 '128+16*5 to 128+16*6-1
REM
REM DATA 1088,1089,1090,1091,1092,1093,1094,1095,1096,1097,1098,1099,1100,1101,1102,1103 '128+16*6 to 128+16*7-1 <-/
REM 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255
REM DATA 8216,8217,8218,8219,8220,8221,8222,8223,176 ,1118,1025,1105,171 ,187 ,175 ,8230 '128+16*7 to 128+16*8-1
```

'We need to replace 1251 only with the last line, above.

```
DIM byt AS STRING * 1
IF COMMAND$ = "" THEN PRINT "Usage: 1251toGesch.exe filename": SYSTEM
OPEN COMMAND$ FOR BINARY AS #1
OPEN COMMAND$ + ".Gesch" FOR BINARY AS #2
PRINT "Converting"; LOF(1); "bytes..."
FOR i& = 1 TO LOF(1)
GET #1, i&, byt$
SELECT CASE ASC(byt$)
CASE 130:
bytNEW$ = CHR$(242)
PUT #2, , bytNEW$

CASE 132:
bytNEW$ = CHR$(246)
PUT #2, , bytNEW$

CASE 133:
bytNEW$ = CHR$(255)
PUT #2, , bytNEW$

CASE 145:
bytNEW$ = CHR$(240)
PUT #2, , bytNEW$

CASE 146:
bytNEW$ = CHR$(241)
PUT #2, , bytNEW$

CASE 147:
bytNEW$ = CHR$(244)
PUT #2, , bytNEW$

CASE 148:
bytNEW$ = CHR$(245)
PUT #2, , bytNEW$

CASE 152:
bytNEW$ = CHR$(0)
PUT #2, , bytNEW$

CASE 160:
bytNEW$ = CHR$(0)
PUT #2, , bytNEW$

CASE 162:
bytNEW$ = CHR$(249)
PUT #2, , bytNEW$

CASE 168:
bytNEW$ = CHR$(250)
PUT #2, , bytNEW$

CASE 184:
bytNEW$ = CHR$(251)
PUT #2, , bytNEW$
```

```

'Not in the tables above, but should be changed [
CASE 171:
  bytNEW$ = CHR$(252)
  PUT #2, , bytNEW$
CASE 187:
  bytNEW$ = CHR$(253)
  PUT #2, , bytNEW$
CASE 150:
  bytNEW$ = CHR$(196)
  PUT #2, , bytNEW$
CASE 151:
  bytNEW$ = CHR$(196)
  PUT #2, , bytNEW$
CASE 173:
  bytNEW$ = CHR$(196)
  PUT #2, , bytNEW$
'Not in the tables above, but should be changed ]

CASE 128 + 16 * 4 TO 128 + 16 * 5 - 1:
  bytNEW$ = CHR$(ASC(byt$) - (4 - 0) * 16)
  PUT #2, , bytNEW$
CASE 128 + 16 * 5 TO 128 + 16 * 6 - 1:
  bytNEW$ = CHR$(ASC(byt$) - (5 - 1) * 16)
  PUT #2, , bytNEW$
CASE 128 + 16 * 6 TO 128 + 16 * 7 - 1:
  bytNEW$ = CHR$(ASC(byt$) - (6 - 2) * 16)
  PUT #2, , bytNEW$
CASE 128 + 16 * 7 TO 128 + 16 * 8 - 1:
  bytNEW$ = CHR$(ASC(byt$) - (7 - 6) * 16)
  PUT #2, , bytNEW$
CASE ELSE:
  PUT #2, , byt$
END SELECT
NEXT
CLOSE #1, #2
SYSTEM

```

鉞



MASAKARI

The masakari is mainly used to smooth down and finish timber. There are two types of masakari. One has a longer handle and is used mainly for lumbering work, while the other type with a shorter handle, also called the carpenters' broadax (daiku-masakari), is used for rough carpentry work or for making wedges from scraps of wood. A carpenter's hewing ax. This ax was an essential tool for rough hewing work and for smoothing logs to be used as pillars and beams. It is still used by carpenter's who work on shrines and temples.

Ono and Masakari as religious symbols

The animistic tradition from ancient times state that deities descend to and reside in the mountains. For lumbermen, the mountain was therefore a sacred territory which required strict ritual abstentions to be entered. The ax has been closely related with this religious revering of the mountain and its trees. For example, the first act amongst the myriad of Shinto rituals carried out before the lumbering for the rebuilding of the Ise Shrine every 20 years, is the cutting into a tree with a ritually purified ax (imi-ono). Moreover in the festival of the pillar (Onbashira-matsuri) at the Suwa shrine, a vermilion-lacquered ax is used to cut down a tree which is to become the sacred pillar.

In Buddhist symbolism the ax also acquires the power of cutting off evil, and there are numerous existing statues of bodhisattva holding axes. Shugen-do, a traditional Japanese religion born out of an amalgam of different religions including Shintoism and Buddhism which has a particular connection with mountains, regards the ax as one of the symbolic objects to be carried by practitioners when going into mountains for ascetic training.

Ax is also an important (heavenly/carpentry) instrument in Laoism, a few excerpts from pseudo-chapter 74 of 'Dao De Jing':

Translation: **Lin Yutang**

And to take the place of the executioner
Is like handling the hatchet for the master carpenter.
He who handles the hatchet for the master carpenter
seldom escapes injury to his hands.

Translation: **Gu Zhengkun**

If one wants to kill on behalf of the executioner,
It is like chopping wood on behalf of the master carpenter.
There are few who can escape cutting their own hands
when they chop wood on behalf of the master carpenter.

Translation: **Ch'u Ta-Kao**

Only the Supreme Executioner kills.
To kill in place of the Supreme Executioner is to hack instead of a greater carpenter.
Now if one hacks in place of a great carpenter one can scarcely avoid cutting one's own hand.

Translation: **Hua-Ching Ni**

To become the executioner of artificial righteousness is like the inexperienced lad who would brandish a sharp axe of a master carpenter.
He can seldom escape cutting himself.

Translation: **Witter Bynner**

Nature is executioner.
When man usurps the place,
A carpenter's apprentice takes the place of the master:
And 'an apprentice hacking with the master's axe
May slice his own hand.'

Translation: **Hu Xuezhí**

Therefore, there always exists the executioner in charge of inflicting death.
To inflict death in place of the executioner,
Is equal to finishing an excellent woodwork in place of a master carpenter.
Of those who finish an excellent woodwork in place of a master carpenter,
Few will not hurt their hands.

Translation: **J.J.L. Duyvendak**

There is always a Chief Executioner who kills.
To kill in place of the Chief Executioner may be called: to chop in place of the Master Carpenter.
Now in chopping in place of the Master Carpenter, few will escape maiming their hands!

Translation: **Spurgeon Medhurst**

There is one who inflicts sentence of death.
To usurp his functions and to kill would be to assume the role of the Master-Carpenter.
There are few who can act as Master-Carpenter without cutting their hands.

Translation: **Richard Wilhelm**

There is always a power of death that kills.
To kill instead of leaving killing to this power of death
is as if one wanted to use the axe oneself
instead of leaving it to the carpenter.
Whosoever would use the axe
instead of leaving it to the carpenter
shall rarely get away
without injuring his hand.

KINTARO - From the folklore of Japan - Legendary symbol of virtue and strength

Kintaro is a beloved legendary and symbolic figure from Japan. Like many legendary figures he appears in both history and mythology. According to classic Japanese literature he was fathered by a great Red Dragon (the thunder god - see below) who visited his mountain sorceress mother in a dream. She awoke amidst powerful claps of thunder and knew at once she was with child. Kintaro means "Golden boy" and his jealous uncle sought to kill him. His mother took him and fled into the Hakone mountains to the deepest forests of Mount Kintoki. Growing up deep in the forest his beautiful spirit caused him to become a special friend to all the wild animals, most especially the rabbits and the bears. He loved to play with his animal friends about the rocks of the Yuhi no Taki Falls. So strong was he as a boy and so gifted at Sumo wrestling that he could throw down a bear. He was a very good boy, rosy-cheeked and chubby and always carried a hatchet, the Japanese symbol of the thunder god and is usually depicted riding his beloved bear.

This documentlet is available thanks to sources:

- 1] TAKENAKA CARPENTRY TOOLS MUSEUM
4-18-25, Nakayamate-dori, Chuo-ku,
Kobe 650-0004, Japan
- 2] The Asian Myths & Legends Art page of Howard David Johnson
- 3] Japanese Architecture and Art Net Users System
- 4] My web-page: www.sanmayce.com

Kaze,
2013-Jan-07

