

```

0001 //Only one must be uncommented:
0002 #define _WIN32_ENVIRONMENT_
0003 // #define _POSIX_ENVIRONMENT_
0004
0005 #include <stdlib.h>          /* malloc(), Info from GNU C      */
0006 #include <stdio.h>          /* standard input/output routines.*/
0007 #include <dirent.h>         /* readdir(), etc.               */
0008 #include <time.h>
0009 #include <utime.h>
0010 #include <sys/stat.h>       /* stat(), etc.                  */
0011 #include <unistd.h>         /* getcwd(), etc.                */
0012
0013 #define MAX_DIR_PATH 2048    /* maximal full path we support. */
0014
0015 #define UCHAR_MAX          255
0016
0017 #define INT_MAX              2147483647
0018 #define INT_MIN              (-INT_MAX-1)
0019 #define UINT_MAX             0xffffffff
0020
0021 #define SHRT_MAX             32767
0022 #define SHRT_MIN             (-SHRT_MAX-1)
0023 #define USHRT_MAX            0xffff
0024
0025 /*
0026  * Maximum and minimum values for longs and unsigned longs.
0027  *
0028  * TODO: This is not correct for Alphas, which have 64 bit longs.
0029  */
0030 #define LONG_MAX              2147483647L
0031 #define LONG_MIN              (-LONG_MAX-1)
0032 #define ULONG_MAX             0xffffffffUL
0033
0034 #define LONG_LONG_MAX         9223372036854775807LL
0035 #define LONG_LONG_MIN         (-LONG_LONG_MAX-1)
0036 #define ULONG_LONG_MAX        (2ULL * LONG_LONG_MAX + 1)
0037
0038 #ifndef NULL
0039 #ifdef __cplusplus
0040 #define NULL 0
0041 #else
0042 #define NULL ((void*)0)
0043 #endif
0044 #endif
0045
0046 #ifndef FALSE
0047 #define FALSE 0
0048 #endif
0049 #ifndef TRUE
0050 #define TRUE 1
0051 #endif
0052
0053 #ifndef false
0054 #define false 0
0055 #endif
0056 #ifndef true
0057 #define true 1
0058 #endif
0059
0060 #ifndef MAX_PATH
0061 #define MAX_PATH (260)
0062 #endif
0063 #define _MAX_DIR 256
0064 #define _MAX_FNAME 256
0065 #define _MAX_EXT 256
0066
0067 typedef unsigned short Bool; /* Boolean TRUE/FALSE value      */
0068 typedef unsigned short bool; /* Boolean TRUE/FALSE value      */
0069 typedef unsigned char byte; /* Single unsigned byte = 8 bits */
0070
0071 #define FOREVER for (;;) /* FOREVER { ... }              */
0072 #define until(expr) while (!(expr)) /* do { ... } until (expr)      */
0073 #define streq(s1,s2) (!strcmp ((s1), (s2)))
0074 #define strneq(s1,s2) (strcmp ((s1), (s2)) == 0)
0075 #define strused(s) (*s != 0)
0076 #define strnull(s) (*s == 0)
0077 #define strclr(s) (*s = 0)
0078 #define strlast(s) ((s) [strlen (s) - 1])
0079 #define strterm(s) ((s) [strlen (s)])
0080
0081 #define KAZE_tolower(c) ( (((c) >= 'A') && ((c) <= 'Z')) ? ((c) - 'A' + 'a') : (c) )
0082 #define KAZE_toupper(c) ( (((c) >= 'a') && ((c) <= 'z')) ? ((c) - 'a' + 'A') : (c) )
0083 #define KAZE_iswalph(c) ( ('A' <= (c) && (c) <= 'Z') || ('a' <= (c) && (c) <= 'z') )
0084 #define KAZE_iswdigit(c) ( '0' <= (c) && (c) <= '9' )
0085
0086 #define KAZE_isascii(_c) ( (unsigned)(_c) < 0x80 )
0087
0088 #define KAZE_max(a,b) ((a) > (b)) ? (a) : (b)

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0089 #define KAZE_min(a,b)      (((a) < (b)) ? (a) : (b))
0090
0091 #define      EXIT_SUCCESS      0
0092 #define      EXIT_FAILURE      1
0093
0094 long KAZE_strlen (
0095     const char * str
0096 )
0097 {
0098     const char *eos = str;
0099
0100     while( *eos++ );
0101
0102     return( (int)(eos - str - 1) );
0103 }
0104
0105 // -----
0106 // this function tests is name matches mask
0107 // ? - any wchar_t or empty
0108 // * - any characters or empty
0109 static bool EnhancedMaskTest_OrEmpty(const char *mask, int maskPos,
0110                                     const char *name, int namePos)
0111 {
0112     int maskLen = KAZE_strlen(mask) - maskPos;
0113     int nameLen = KAZE_strlen(name) - namePos;
0114     if (maskLen == 0)
0115         if (nameLen == 0)
0116             return true;
0117         else
0118             return false;
0119     char maskChar = mask[maskPos];
0120     if(maskChar == '?')
0121     {
0122         /*
0123         if (EnhancedMaskTest_OrEmpty(mask, maskPos + 1, name, namePos))
0124             return true;
0125         */
0126         if (EnhancedMaskTest_OrEmpty(mask, maskPos + 1, name, namePos)) // KAZE: THIS LINE DECIDES whether 'or empty' or 'and not empty'
0127             return true; // uncommented is 'or empty'
0128         if (nameLen == 0)
0129             return false;
0130         return EnhancedMaskTest_OrEmpty(mask, maskPos + 1, name, namePos + 1);
0131     }
0132     else if(maskChar == '*')
0133     {
0134         if (EnhancedMaskTest_OrEmpty(mask, maskPos + 1, name, namePos))
0135             return true;
0136         if (nameLen == 0)
0137             return false;
0138         return EnhancedMaskTest_OrEmpty(mask, maskPos, name, namePos + 1);
0139     }
0140     else
0141     {
0142         char c = name[namePos];
0143         //if (maskChar != c)
0144             if (KAZE_toupper(maskChar) != KAZE_toupper(c))
0145                 return false;
0146         return EnhancedMaskTest_OrEmpty(mask, maskPos + 1, name, namePos + 1);
0147     }
0148 }
0149
0150 // -----
0151 // this function tests is name matches mask
0152 // ? - any wchar_t and not empty
0153 // * - any characters or empty
0154 static bool EnhancedMaskTest_AndNotEmpty(const char *mask, int maskPos,
0155                                         const char *name, int namePos)
0156 {
0157     int maskLen = KAZE_strlen(mask) - maskPos;
0158     int nameLen = KAZE_strlen(name) - namePos;
0159     if (maskLen == 0)
0160         if (nameLen == 0)
0161             return true;
0162         else
0163             return false;
0164     char maskChar = mask[maskPos];
0165     if(maskChar == '?')
0166     {
0167         /*
0168         if (EnhancedMaskTest_AndNotEmpty(mask, maskPos + 1, name, namePos)) // KAZE: THIS LINE DECIDES whether 'or empty' or 'and not empty'
0169             return true; // commented is 'and not empty'
0170         */
0171         if (nameLen == 0)
0172             return false;
0173         return EnhancedMaskTest_AndNotEmpty(mask, maskPos + 1, name, namePos + 1);
0174     }
0175     else if(maskChar == '*')
0176     {

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0177     if (EnhancedMaskTest_AndNotEmpty(mask, maskPos + 1, name, namePos))
0178         return true;
0179     if (nameLen == 0)
0180         return false;
0181     return EnhancedMaskTest_AndNotEmpty(mask, maskPos, name, namePos + 1);
0182 }
0183 else
0184 {
0185     char c = name[namePos];
0186     //if (maskChar != c)
0187         if (KAZE_toupper(maskChar) != KAZE_toupper(c))
0188             return false;
0189     return EnhancedMaskTest_AndNotEmpty(mask, maskPos + 1, name, namePos + 1);
0190 }
0191 }
0192 bool CompareWildCardWithName(const char *mask, const char *name, int orempty)
0193 {
0194     if (orempty != 0)
0195         return EnhancedMaskTest_OrEmpty(mask, 0, name, 0);
0196     else
0197         return EnhancedMaskTest_AndNotEmpty(mask, 0, name, 0);
0198 }
0199 // Above fragment(modified) is from wildcard.cpp from 7zip package.
0200
0201 char * KAZE_strrev (
0202     char * string
0203 )
0204 {
0205     char *start = string;
0206     char *left = string;
0207     char ch;
0208
0209     while (*string++)          /* find end of string */
0210         ;
0211     string -= 2;
0212
0213     while (left < string)
0214     {
0215         ch = *left;
0216         *left++ = *string;
0217         *string-- = ch;
0218     }
0219
0220     return(start);
0221 }
0222
0223 ///<* -----[<]-
0224 // Function: file_matches
0225 //
0226 // Synopsis: Returns TRUE if the filename matches the pattern. The pattern
0227 // is a character string that can contain these 'wildcard' characters:
0228 // -----[>]-*/
0229 ///<* THIS FUNCTION WORKS ONLY FOR ONE '*' I.E. MANY '*' ARE NOT ALLOWED! [(
0230 //Bool
0231 //file_matches (
0232 // char *filename,
0233 // char *pattern)
0234 //{
0235 // char
0236 //     *pattern_ptr,          /* Points to pattern          */
0237 //     *filename_ptr,        /* Points to filename          */
0238 //     *filename_ptrLA; // Look Ahead
0239 //
0240 // filename_ptr = (char *) filename; /* Start comparing file name */
0241 // pattern_ptr = (char *) pattern; /* Start comparing file name */
0242 //
0243 // FOREVER
0244 // {
0245 //     /* If we came to the end of the pattern and the filename, we have */
0246 //     /* successful match. */
0247 //     if (*pattern_ptr == '\0' && *filename_ptr == '\0')
0248 //         return (TRUE); /* Have a match */
0249 //
0250 //     /* Otherwise, end of either is a failed match */
0251 //     if (*pattern_ptr == '\0' || *filename_ptr == '\0')
0252 //         return (FALSE); /* Match failed */
0253 //
0254 //     /* If the pattern character is '?', then we matched a char */
0255 //     if (*pattern_ptr == '?')
0256 //         || KAZE_toupper (*pattern_ptr) == KAZE_toupper (*filename_ptr))
0257 //     {
0258 //         pattern_ptr++;
0259 //         filename_ptr++;
0260 //     }
0261 //     else
0262 //         /* If we have a '*', match as much of the filename as we can */
0263 //         if (*pattern_ptr == '*')
0264 //         {

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0265 //      pattern_ptr++;          /* Try to match following char      */
0266 //      while (*filename_ptr && KAZE_toupper (*filename_ptr) != KAZE_toupper (*pattern_ptr))
0267 //          filename_ptr++;
0268 //      if (KAZE_strlen(pattern_ptr) != KAZE_strlen(filename_ptr)) // I can afford this due to
0269 //      {                                                         // no more '*' AND '?' - any character and not empty
0270 //          filename_ptrLA = filename_ptr;
0271 //          while (*filename_ptrLA && KAZE_toupper(*filename_ptrLA) != KAZE_toupper(*pattern_ptr))
0272 //              filename_ptrLA++;
0273 //          if (KAZE_toupper(*filename_ptrLA) == KAZE_toupper(*pattern_ptr))
0274 //          {
0275 //              pattern_ptr--; // Points to '*' again
0276 //              if (*filename_ptr) filename_ptr++; // Points to char after '.' f.e.
0277 //          } else
0278 //              return (FALSE); // FALSE only if no such char exists: case Tufto.exe.zip '.'
0279 //      }
0280 //      else
0281 //          return (FALSE); // Match failed
0282 //      }
0283 //  }
0284 //  }
0285 //}
0286
0287 // BELOW DISASM IS TO ENSURE ME FOR SAFETY OF (X && Y) WHERE Y WILL NOT BE EXECUTED UNLESS X IS TRUE.
0288
0289 //09 int main( int argc, char **argv ) {
0290 //10     char
0291 //11         *pattern_ptr = NULL, // Points to pattern
0292 //12         *filename_ptr = NULL; // Points to filename
0293 //13
0294 //14         while (*filename_ptr && *filename_ptr != *pattern_ptr)
0295 //15             filename_ptr++;
0296 //16
0297 //17     return( 0 );
0298 //18 }
0299
0300 //_main PROC NEAR
0301 //; File c:\program files\microsoft visual c++ toolkit 2003\yoshi.c
0302 //; Line 12
0303 //     xor     ecx, ecx
0304 //; Line 14
0305 //     mov     al, BYTE PTR [ecx]
0306 //     push    esi
0307 //     xor     esi, esi
0308 //     test    al, al
0309 //     je      SHORT $L562
0310 //     mov     dl, BYTE PTR [esi]
0311 //     npad    3
0312 // $L549:
0313 //     cmp     al, dl
0314 //     je      SHORT $L562
0315 //     mov     al, BYTE PTR [ecx+1]
0316 //; Line 15
0317 //     inc     ecx
0318 //     test    al, al
0319 //     jne     SHORT $L549
0320 // $L562:
0321 //; Line 17
0322 //     xor     eax, eax
0323 //     pop     esi
0324 //; Line 18
0325 //     ret     0
0326 //_main ENDP
0327
0328 char *Logo[] = {
0329 "Yoshi(Filelist Creator), revision 6+, written by Svalqyatchx,",
0330 "in fact based on SWEEP.C from 'Open Watcom Project', thanks-thanks.",
0331 "",
0332 "Note1: So far, it works for current directory only.",
0333 "Note2: Default method is depth-first traversal;",
0334 "       may use pipe 'Yoshi|sort' for breadth-first_like traversal results.",
0335 "Note3: Make notice that *.*(extensionfull only) is not equal to '*'(all);",
0336 "       one disadvantage is an inability to list only extensionless filenames.",
0337 "Note4: Search is case-insensitive as-must.",
0338 "Note5: This revision allows multiple '*', and meaning of masks is:",
0339 "       '?' - any character AND NOT EMPTY(default, for OR EMPTY see option -e);",
0340 "       '*' - any character(s) or empty.",
0341 "Note6: What is a .LBL(LineByLine) file?",
0342 "       it is a bunch of GRAMMATICAL lines not mere LF or CRLF lines;",
0343 "       it contains not symbols under 32(except CR and LF) and above 127;",
0344 "       it contains not space symbol sequences.",
0345 "Note7: Since r.6+ size of files bigger than 4GB is correctly reported.",
0346 "Usage:",
0347 "       Yoshi [option(s)] [filename(s)],
0348 "       option(s):",
0349 "       -v         i.e. verbose mode; output goes to console;",
0350 "       -f         i.e. fullpath mode for output;",
0351 "       -e         i.e. treat '?' as any character OR EMPTY;",
0352 "       -t         i.e. touch all encountered files;",

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0353 "        -2            i.e. convert all encountered .TXT files to .LBL files;",
0354 "        -o<filename> i.e. output goes to file(in append mode).",
0355 "        filename(s):",
0356 "        wildcards '*' and wildcards '?' are allowed i.e. \"str*.c??\";",
0357 "        default filename is '*'; DO NOT FORGET TO PUT",
0358 "        filename(s) WITH WILDCARD(S) INTO QUOTE MARKS!",
0359
0360 // DAMN IGNORANCE LEADS TO(fix for below problem is QUOTE MARKS):
0361 //Note2: I am confused: 'Yoshi *.c' receives all(i.e.) *.c one-by-one in current",
0362 //      folder as command line parameters instead of WYSIWYG?! That leads",
0363 //      to lost wildcard(s) i.e. expanding them and nonsense-buggy results.",
0364 //      So, to avoid this ugly-pseudo-bug, the current folder must contain not",
0365 //      extensions you are looking(with wildcard(s)) for - GRMBL.",
0366
0367 "Examples:";
0368 "    Yoshi -v -f -oCaterpillar_NON.lst \"*.lbl\" \"*.txt\" \"*.htm\" \"*.html\"";
0369 "    Yoshi -f -omyEbooks.txt \"*wiley*essential*.pdf\" \"*russian*.htm\"";
0370 ";
0371     NULL
0372 };
0373
0374     int verbose = 0;          /* verbose mode (default = false) */
0375     int orempty = 0;
0376     int mfullpath = 0;
0377     int lbl = 0;
0378     int tch = 0;
0379     int moutput = 0;
0380     unsigned long long int TotalSize = 0;
0381     unsigned long int TotalFiles = 0, TotalFolders = 0;
0382     unsigned long number_of_successful_touches = 0;
0383     unsigned long int LBLFiles = 0;
0384
0385     struct utimbuf stamp;
0386
0387 //char    SaveDir[MAX_PATH];
0388 char    SaveDir[MAX_DIR_PATH];
0389
0390 int Options_levels = INT_MAX;
0391 unsigned Options_depthfirst = 1;
0392
0393 typedef struct dirstack {
0394     struct dirstack    *prev;
0395     char                name_len;
0396     char                name[_MAX_FNAME + _MAX_EXT];
0397 }    dirstack;
0398
0399 dirstack    *Stack = NULL;
0400 int         DoneFlag = 0;
0401
0402
0403 void SetDoneFlag()
0404 {
0405     DoneFlag = 1;
0406 }
0407
0408
0409 void *SafeMalloc( size_t n )
0410 {
0411     void *p = malloc( n );
0412     if( p == NULL ) {
0413         puts( "Out of memory!" );
0414         SetDoneFlag();
0415     }
0416     return( p );
0417 }
0418
0419
0420 static char    CurrPathBuff[MAX_DIR_PATH + 2];
0421
0422 char *CurrPath()
0423 {
0424     char        *p;
0425     dirstack    *stack;
0426
0427     if( Stack->prev == NULL )
0428         return( "." );
0429     p = CurrPathBuff + MAX_DIR_PATH;
0430     *--p = '\\0';
0431     stack = Stack;
0432     for( ;; ) {
0433         p -= stack->name_len;
0434         memcpy( p, stack->name, stack->name_len );
0435         stack = stack->prev;
0436         if( stack->prev == NULL )
0437             break;
0438         *--p = '\\';
0439     }
0440     return( p );

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0441 }
0442
0443
0444 char *StringCopy( char *dst, char *src )
0445 {
0446     while( ( *dst = *src ) ) {
0447         ++dst;
0448         ++src;
0449     }
0450     return( dst );
0451 }
0452
0453 //PUBLIC _StringCopy
0454 //; Function compile flags: /ogty
0455 //TEXT SEGMENT
0456 //_dst$ = 8 ; size = 4
0457 //_src$ = 12 ; size = 4
0458 //_StringCopy PROC NEAR
0459 //; File c:\program files\microsoft visual c++ toolkit 2003\sweep_me1.c
0460 //; Line 7
0461 //      mov     edx, DWORD PTR _src$[esp-4]
0462 //      mov     cl, BYTE PTR [edx]
0463 //      test    cl, cl
0464 //      mov     eax, DWORD PTR _dst$[esp-4]
0465 //      mov     BYTE PTR [eax], cl
0466 //      je      SHORT $L546
0467 //$L545:
0468 //      mov     cl, BYTE PTR [edx+1]
0469 //; Line 8
0470 //      inc     eax
0471 //; Line 9
0472 //      inc     edx
0473 //      test    cl, cl
0474 //      mov     BYTE PTR [eax], cl
0475 //      jne     SHORT $L545
0476 //$L546:
0477 //; Line 12
0478 //      ret     0
0479 //_StringCopy ENDP
0480
0481
0482 // TXT2LBL TXT2LBL TXT2LBL TXT2LBL TXT2LBL TXT2LBL TXT2LBL TXT2LBL TXT2LBL
0483 void TXT2LBL(char *CurrentSolid)
0484 {
0485     FILE *fp_unSOLID, *fp_SOLID;
0486     char LBLname[_MAX_FNAME + _MAX_EXT];
0487     char LBLname2[_MAX_FNAME + _MAX_EXT];
0488     long size_unSOLID, k;
0489     unsigned char workbyte, PREVworkbyte, LASTwrite_workbyte, c32 = ' ', c13 = '\r', c10 = '\n', cdot = '.';
0490     int NoLeadSPACE = 1;
0491
0492     StringCopy( LBLname, CurrentSolid );
0493     LBLname[KAZE_strlen(LBLname)-1] = '1';
0494     LBLname[KAZE_strlen(LBLname)-2] = 'B';
0495     LBLname[KAZE_strlen(LBLname)-3] = 'L';
0496     if( ( fp_unSOLID = fopen( CurrentSolid, "rb" ) ) == NULL )
0497     { printf( "Yoshi: Can't open %s file.\n", CurrentSolid ); exit( 1 ); }
0498     if( ( fp_SOLID = fopen( LBLname, "wb" ) ) == NULL )
0499     { printf( "Yoshi: Can't open %s file.\n", LBLname ); exit( 1 ); }
0500     fseek( fp_unSOLID, 0L, SEEK_END );
0501     size_unSOLID = ftell( fp_unSOLID );
0502     fseek( fp_unSOLID, 0L, SEEK_SET );
0503     workbyte = 0x00;
0504     LASTwrite_workbyte = 0x00;
0505     for( k = 0; k < size_unSOLID; k++ )
0506     {
0507         PREVworkbyte = workbyte;
0508         fread( &workbyte, 1, 1, fp_unSOLID );
0509         if( workbyte != c13 )
0510         {
0511             // a file can finish with no LF character!!!
0512             if( k != size_unSOLID - 1 )
0513                 if( workbyte != c10 )
0514                 {
0515                     if( workbyte < c32 )
0516                     {
0517                         if( LASTwrite_workbyte != c32 )
0518                             fwrite( &c32, 1, 1, fp_SOLID );
0519                         LASTwrite_workbyte = c32;
0520                     }
0521                     else if( workbyte >= 0x80 )
0522                     {
0523                         if( LASTwrite_workbyte != c32 )
0524                             fwrite( &c32, 1, 1, fp_SOLID );
0525                         LASTwrite_workbyte = c32;
0526                     }
0527                     else
0528                     {

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0529         if (LASTwrite_workbyte == c32 && workbyte == c32) {} else
0530             fwrite( &workbyte, 1, 1, fp_SOLID );
0531         LASTwrite_workbyte = workbyte;
0532     }
0533 }
0534 else
0535 {
0536     if (LASTwrite_workbyte != c32)
0537         fwrite( &c32, 1, 1, fp_SOLID );
0538     LASTwrite_workbyte = c32;
0539 }
0540 else
0541 {
0542     if (LASTwrite_workbyte != '?' && LASTwrite_workbyte != '!' && LASTwrite_workbyte != '.') fwrite( &cdot, 1, 1, fp_SOLID );
0543     fwrite( &c13, 1, 1, fp_SOLID );
0544     fwrite( &c10, 1, 1, fp_SOLID );
0545 }
0546 }
0547 } // k 'for'
0548 fclose(fp_SOLID);
0549 fclose(fp_unSOLID);
0550
0551 StringCopy( LBLname2, LBLname );
0552 LBLname2[KAZE_strlen(LBLname2)-1] = 'L';
0553 LBLname2[KAZE_strlen(LBLname2)-2] = 'B';
0554 LBLname2[KAZE_strlen(LBLname2)-3] = 'L';
0555 if( ( fp_unSOLID = fopen( LBLname, "rb" ) ) == NULL )
0556 { printf( "Yoshi: Can't open %s file.\n", LBLname ); exit( 1 ); }
0557 if( ( fp_SOLID = fopen( LBLname2, "wb" ) ) == NULL )
0558 { printf( "Yoshi: Can't open %s file.\n", LBLname2 ); exit( 1 ); }
0559 fseek( fp_unSOLID, 0L, SEEK_END );
0560 size_unSOLID = ftell( fp_unSOLID );
0561 fseek( fp_unSOLID, 0L, SEEK_SET );
0562 workbyte = 0x00;
0563 for( k = 0; k < size_unSOLID - 2; k++ ) // -2 due to surely CRLF ending from LB1
0564 {
0565     PREVworkbyte = workbyte;
0566     fread( &workbyte, 1, 1, fp_unSOLID );
0567     if(( PREVworkbyte == '.' || PREVworkbyte == '?' || PREVworkbyte == '!' ) && workbyte == 0x22)
0568     {
0569         fwrite( &PREVworkbyte, 1, 1, fp_SOLID );
0570         fwrite( &workbyte, 1, 1, fp_SOLID );
0571         fwrite( &c13, 1, 1, fp_SOLID );
0572         fwrite( &c10, 1, 1, fp_SOLID );
0573         NoLeadSPACE = 1;
0574     }
0575     else if(( PREVworkbyte == '.' || PREVworkbyte == '?' || PREVworkbyte == '!' ) && workbyte == 0x27)
0576     {
0577         fwrite( &PREVworkbyte, 1, 1, fp_SOLID );
0578         fwrite( &workbyte, 1, 1, fp_SOLID );
0579         fwrite( &c13, 1, 1, fp_SOLID );
0580         fwrite( &c10, 1, 1, fp_SOLID );
0581         NoLeadSPACE = 1;
0582     }
0583     else if(( PREVworkbyte == '.' || PREVworkbyte == '?' || PREVworkbyte == '!' ) && workbyte == 0x20)
0584     {
0585         fwrite( &PREVworkbyte, 1, 1, fp_SOLID );
0586         fwrite( &c13, 1, 1, fp_SOLID );
0587         fwrite( &c10, 1, 1, fp_SOLID );
0588         NoLeadSPACE = 1;
0589     }
0590     else if(( PREVworkbyte == '.' || PREVworkbyte == '?' || PREVworkbyte == '!' ) && workbyte != 0x20)
0591     {
0592         fwrite( &PREVworkbyte, 1, 1, fp_SOLID );
0593         fwrite( &c13, 1, 1, fp_SOLID );
0594         fwrite( &c10, 1, 1, fp_SOLID );
0595         NoLeadSPACE = 1;
0596         if( workbyte != '.' && workbyte != '?' && workbyte != '!' ) {
0597             fwrite( &workbyte, 1, 1, fp_SOLID );
0598             NoLeadSPACE = 0; }
0599         if (k == (size_unSOLID - 2) - 1)
0600         {
0601             fwrite( &workbyte, 1, 1, fp_SOLID ); // last char is .|?!
0602             fwrite( &c13, 1, 1, fp_SOLID );
0603             fwrite( &c10, 1, 1, fp_SOLID );
0604         }
0605     }
0606     else
0607     {
0608         if( workbyte != '.' && workbyte != '?' && workbyte != '!' ) {
0609             if( workbyte == c32 && NoLeadSPACE == 1 ) {} else {
0610                 fwrite( &workbyte, 1, 1, fp_SOLID );
0611                 NoLeadSPACE = 0; }
0612             if (k == (size_unSOLID - 2) - 1)
0613             {
0614                 fwrite( &workbyte, 1, 1, fp_SOLID ); // last char is .|?!
0615                 fwrite( &c13, 1, 1, fp_SOLID );
0616                 fwrite( &c10, 1, 1, fp_SOLID );

```

```

0617     }
0618 }
0619 } // k 'for'
0620 fclose(fp_SOLID);
0621 fclose(fp_unSOLID);
0622
0623 if( remove( LBLname ) != 0 )
0624 { printf( "Yoshi: Can't remove %s file.\n", LBLname ); exit( 1 ); }
0625 }
0626 // TXT2LBL TXT2LBL TXT2LBL TXT2LBL TXT2LBL TXT2LBL TXT2LBL TXT2LBL
0627
0628 // Again thanks to TOUCH.C from WATCOM:
0629 static int doTouchFile( char *full_name, struct utimbuf *stamp)
0630 /*****
0631 {
0632     int utime_rc;
0633
0634     utime_rc = utime( full_name, stamp );
0635     if( utime_rc == -1 ) {
0636     } else {
0637         return 1;
0638     }
0639     return 0;
0640 }
0641
0642 void ProcessCurrentDirectory(char *wildCard, FILE *fp_outLOG)
0643 {
0644     DIR                *dirh;
0645     struct dirent      *dp;
0646     dirstack           *stack;
0647     char cwd[MAX_DIR_PATH+1]; /* current working directory. */
0648
0649     if( !Options_depthfirst ) {
0650         //ExecuteCommands();
0651     }
0652     if( Options_levels != 0 ) {
0653         dirh = opendir( "." );
0654         if( dirh != NULL ) {
0655             --Options_levels;
0656             for(;;) {
0657                 if( DoneFlag )
0658                     return;
0659                 dp = readdir( dirh );
0660                 if( dp == NULL )
0661                     break;
0662 #ifdef __UNIX__
0663 {
0664 #if defined(_WIN32_ENVIRONMENT_)
0665         struct _stat64 buf; // this is new: r.6+
0666 #else
0667         struct stat buf; // this is old: r.6; Linux does what it should: this works for 64bit automatically
0668 #endif /* defined(_WIN32_ENVIRONMENT_) */
0669 #if defined(_WIN32_ENVIRONMENT_)
0670         if ( _stat64( dp->d_name, &buf ) != 0 )
0671 #else
0672         if ( stat( dp->d_name, &buf ) != 0 ) // this is old: r.6
0673 #endif /* defined(_WIN32_ENVIRONMENT_) */
0674             { // ##### CRASH SPOT ??? ?!!!! #####
0675                 // my case was for folders that are bad i.e. cannot be erase or copy
0676                 printf("Yoshi: Break after function 'stat'.\n");
0677                 exit( EXIT_FAILURE ); }
0678             if( !S_ISDIR( buf.st_mode ) )
0679                 {
0680 //if( S_ISREG( buf.st_mode ) && file_matches ( dp->d_name, wildCard ) ) // Under windows it reads hidden and system files - grmb1.
0681 if( S_ISREG( buf.st_mode ) && CompareWildCardWithName ( wildCard, dp->d_name, orempty ) )
0682 {
0683     TotalSize = TotalSize + buf.st_size;
0684     TotalFiles++;
0685
0686             if (tch != 0) {
0687                 number_of_successful_touces +=
0688                     doTouchFile( dp->d_name, &stamp );
0689             }
0690
0691             if (lbl != 0) {
0692                 KAZE_strrev(dp->d_name);
0693                 if (KAZE_toupper(dp->d_name[0]) == 'T' && KAZE_toupper(dp->d_name[1]) == 'X' && KAZE_toupper(dp->d_name[2]) == 'T' && dp->d_name[3]
0694 == '.') {
0695                     KAZE_strrev(dp->d_name);
0696                     LBLFiles++;
0697                     printf("Converting(LBLing) %s ... \n", dp->d_name);
0698                     TXT2LBL (dp->d_name);
0699                 } else
0700                     KAZE_strrev(dp->d_name);
0701             }
0702             if (mfullpath != 0) {
0703                 if ( !getcwd(cwd, MAX_DIR_PATH+1) ) {
0704                     // Some error

```



```

0704     } else {
0705         if (moutput != 0) {
0706             fprintf( fp_outLOG, "%s\\%s\n", cwd, dp->d_name );
0707         }
0708         if (verbose != 0) printf("%s\\%s\n", cwd, dp->d_name);
0709     }
0710 } else {
0711     if (moutput != 0) {
0712         fprintf( fp_outLOG, "%s\\%s\n", CurrPath(), dp->d_name );
0713     }
0714     if (verbose != 0) printf("%s\\%s\n", CurrPath(), dp->d_name);
0715 }
0716 }
0717     continue;
0718 }
0719 }
0720 //else
0721 //     if( !( dp->d_attr & _A_SUBDIR ) )
0722 //         continue;
0723 //endif
0724     if( dp->d_name[0] == '.' ) {
0725         if( dp->d_name[1] == '.' || dp->d_name[1] == '\0' )
0726             continue;
0727     }
0728     stack = SafeMalloc( sizeof( *stack ) );
0729     if( DoneFlag )
0730         return;
0731     stack->name_len = strlen( dp->d_name );
0732     memcpy( stack->name, dp->d_name, stack->name_len + 1 );
0733     stack->prev = Stack;
0734     Stack = stack;
0735
0736 TotalFolders++;
0737 //puts(CurrPath()); // All folders listing
0738
0739     if (chdir( stack->name ) != 0)
0740     { // ##### CRASH SPOT ??? ???? !!!!! #####
0741         // my case was for hidden folder System Volume Information
0742         printf("Yoshi: Break after function 'chdir'.\n");
0743         exit( EXIT_FAILURE ); }
0744     ProcessCurrentDirectory( WildCard, fp_outLOG );
0745     chdir( ".." );
0746     Stack = stack->prev;
0747     free( stack );
0748 }
0749 ++Options_levels;
0750 closedir( dirh );
0751 }
0752 }
0753 if( Options_depthfirst ) {
0754     //ExecuteCommands();
0755 }
0756 }
0757
0758 void PrintLogo()
0759 {
0760     int i;
0761
0762     for( i = 0; Logo[i] != NULL; ++i )
0763         puts( Logo[i] );
0764     //exit( EXIT_FAILURE );
0765 }
0766
0767 //int scmp( unsigned char *s1, unsigned char *s2 )
0768 //{
0769 //     while( *s1 != '\0' && *s1 == *s2 )
0770 //     {
0771 //         s1++;
0772 //         s2++;
0773 //     }
0774 //     return( *s1-*s2 );
0775 //}
0776
0777 void x64toaKAZE ( /* stdcall is faster and smaller... Might as well use it for the helper. */
0778     unsigned long long val,
0779     char *buf,
0780     unsigned radix,
0781     int is_neg
0782 )
0783 {
0784     char *p;           /* pointer to traverse string */
0785     char *firstdig;    /* pointer to first digit */
0786     char temp;         /* temp char */
0787     unsigned digval;   /* value of digit */
0788
0789     p = buf;
0790
0791     if ( is_neg )

```

```

0792 {
0793     *p++ = '-';          /* negative, so output '-' and negate */
0794     val = (unsigned long long)(-(long long)val);
0795 }
0796
0797 firstdig = p;           /* save pointer to first digit */
0798
0799 do {
0800     digval = (unsigned) (val % radix);
0801     val /= radix;        /* get next digit */
0802
0803     /* convert to ascii and store */
0804     if (digval > 9)
0805         *p++ = (char) (digval - 10 + 'a'); /* a letter */
0806     else
0807         *p++ = (char) (digval + '0');      /* a digit */
0808 } while (val > 0);
0809
0810 /* we now have the digit of the number in the buffer, but in reverse
0811    order. Thus we reverse them now. */
0812
0813 *p-- = '\0';           /* terminate string; p points to last digit */
0814
0815 do {
0816     temp = *p;
0817     *p = *firstdig;
0818     *firstdig = temp; /* swap *p and *firstdig */
0819     --p;
0820     ++firstdig;        /* advance to next two digits */
0821 } while (firstdig < p); /* repeat until halfway */
0822 }
0823
0824 char * _ui64toaKAZEzerocomma (
0825     unsigned long long val,
0826     char *buf,
0827     int radix
0828 )
0829 {
0830     char *p;
0831     char temp;
0832     int txpman;
0833     int pxnman;
0834     x64toaKAZE(val, buf, radix, 0);
0835     p = buf;
0836     do {
0837     } while (*++p != '\0');
0838     p--; // p points to last digit
0839     // buf points to first digit
0840     buf[26] = 0;
0841     txpman = 1;
0842     pxnman = 0;
0843     do
0844     { if (buf <= p)
0845       { temp = *p;
0846         buf[26-txpman] = temp; pxnman++;
0847         p--;
0848         if (pxnman % 3 == 0)
0849         { txpman++;
0850           buf[26-txpman] = (char) (' ');
0851         }
0852       }
0853     else
0854     { buf[26-txpman] = (char) ('0'); pxnman++;
0855       if (pxnman % 3 == 0)
0856       { txpman++;
0857         buf[26-txpman] = (char) (' ');
0858       }
0859     }
0860     txpman++;
0861 } while (txpman <= 26);
0862
0863 return buf;
0864 }
0865
0866 // Again thanks to TOUCH.C from WATCOM:
0867 static void syncStamp( struct utimbuf *stamp )
0868 /******
0869 //struct tm
0870 //{
0871 //    int    tm_sec;        /* Seconds: 0-59 (K&R says 0-61?) */
0872 //    int    tm_min;        /* Minutes: 0-59 */
0873 //    int    tm_hour;       /* Hours since midnight: 0-23 */
0874 //    int    tm_mday;       /* Day of the month: 1-31 */
0875 //    int    tm_mon;        /* Months *since* january: 0-11 */
0876 //    int    tm_year;       /* Years since 1900 */
0877 //    int    tm_wday;       /* Days since Sunday (0-6) */
0878 //    int    tm_yday;       /* Days since Jan. 1: 0-365 */
0879 //    int    tm_isdst;      /* +1 Daylight Savings Time, 0 No DST,
                                * -1 don't know */

```

```

0880 //};
0881 // _CRTIMP time_t __cdecl mktime (struct tm*);
0882 // _CRTIMP struct tm* __cdecl localtime (const time_t*);
0883
0884 {
0885     time_t touch_time;
0886     static struct tm touchTime;
0887
0888     time_t curr_time;
0889     struct tm *ptime;
0890
0891     time( &curr_time );
0892     ptime = localtime( &curr_time );
0893     touchTime = *ptime;
0894
0895     // touchTime.tm_sec = 0;
0896     // touchTime.tm_min = 0;
0897     // touchTime.tm_hour = 0;
0898     //touchTime.tm_mday = DateAdjust.day;
0899     //touchTime.tm_mon = DateAdjust.month - 1;
0900     //touchTime.tm_year = DateAdjust.year - 1900;
0901     //touchTime.tm_isdst = -1;
0902
0903     touch_time = mktime( &touchTime );
0904     stamp->actime = touch_time;
0905     stamp->modtime = touch_time;
0906 }
0907
0908 int main( int argc, char **argv ) {
0909 //int main(int argc, char *argv[]) {
0910
0911     char l1ToADigits[27]; // 9,223,372,036,854,775,807: 1(sign or carry)+19(digits)+1('\0')+6(,)
0912     char *wildCard = "*";
0913     char *out_file = "Yoshi.lst";
0914     FILE *fp_outLOG;
0915
0916     PrintLogo();
0917     Stack = SafeMalloc( sizeof( *Stack ) );
0918     Stack->name_len = 1;
0919     Stack->prev = NULL;
0920     StringCopy( Stack->name, "." );
0921     getcwd( SaveDir, MAX_DIR_PATH+1 );
0922 //chdir( "d:\\www.sanmayce.com" );
0923
0924     /*
0925     * loop for each option.
0926     * Stop if we run out of arguments
0927     * or we get an argument without a dash.
0928     */
0929     while ((argc > 1) && (argv[1][0] == '-')) {
0930         /*
0931         * argv[1][1] is the actual option character.
0932         */
0933         switch (argv[1][1]) {
0934             /*
0935             * -v verbose
0936             */
0937             case 'v':
0938                 verbose = 1;
0939                 break;
0940             case 'e':
0941                 orempty = 1;
0942                 break;
0943             case '2':
0944                 lbl = 1;
0945                 break;
0946             case 't':
0947                 tch = 1;
0948                 syncStamp( &stamp );
0949                 break;
0950             case 'f':
0951                 mfullpath = 1;
0952                 break;
0953             /*
0954             * -o<name> output file
0955             * [0] is the dash
0956             * [1] is the "o"
0957             * [2] starts the name
0958             */
0959             case 'o':
0960                 moutput = 1;
0961                 out_file = &argv[1][2];
0962         }
0963         if( ( fp_outLOG = fopen( out_file, "ab" ) ) == NULL )
0964             { printf( "Yoshi: Can't open file %s.\n", out_file ); return( EXIT_FAILURE ); }
0965         break;
0966     /*
0967     * -l<number> set max number of lines

```

```

0968     */
0969     //case 'l':
0970     //     line_max = atoi(&argv[1][2]);
0971     //     break;
0972     default:
0973         printf("Yoshi: Bad option %s\n", argv[1]);
0974         return( EXIT_FAILURE );
0975     }
0976     /*
0977     * move the argument list up one
0978     * move the count down one
0979     */
0980     ++argv;
0981     --argc;
0982 }
0983
0984 /*
0985 * At this point all the options have been processed.
0986 * Check to see if we have no files in the list
0987 * and if so, we need to process just standard in.
0988 */
0989 if (argc == 1) {
0990     ProcessCurrentDirectory( wildCard, fp_outLOG ); // *.* is default
0991 } else {
0992     while (argc > 1) {
0993         wildCard = argv[1];
0994         ProcessCurrentDirectory( wildCard, fp_outLOG );
0995         ++argv;
0996         --argc;
0997     }
0998 }
0999
1000 if ((verbose == 1) && TotalFiles)
1001     printf("\n");
1002 else
1003 if ((lbl == 1) && LBLFiles)
1004     printf("\n");
1005
1006 printf("Yoshi: Total size of files: %s bytes.\n", _ui64toaKAZEzerocomma(TotalSize, llToaDigits, 10)+(26-18)) ; // 26 are all 26-DESIRED=24
1007 if (tch == 1)
1008     printf("Yoshi: Total files: %s touched.\n", _ui64toaKAZEzerocomma(number_of_successful_touches, llToaDigits, 10)+(26-15)) ; // 26 are all 26-DESIRED=24
1009 printf("Yoshi: Total files: %s.\n", _ui64toaKAZEzerocomma(TotalFiles, llToaDigits, 10)+(26-15)) ; // 26 are all 26-DESIRED=24
1010 printf("Yoshi: Total folders: %s.\n", _ui64toaKAZEzerocomma(TotalFolders, llToaDigits, 10)+(26-13)) ; // 26 are all 26-DESIRED=24
1011
1012 free( Stack );
1013 Stack = NULL;
1014 chdir( SaveDir );
1015 if (moutput == 1) fclose( fp_outLOG );
1016 return( EXIT_SUCCESS );
1017 }

```