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                      Movie Library
                        version 1.0
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[ Abstract ]
Movie Library is a C++ library which compresses images into MDEC
compression format. It compresses RGB and YUV into BS format. Movie
Library can be used to customize movie encoding process for your own
environment. Movie Library covers 5 different hardware platforms.
[ Contents of this package ]
   include
              include files
              library and binaries for Windows 95/NT
              library and binaries for Windows NT(DEC alpha chip)
   alpha
              library and binaries for Macintosh(PowerPC)
   mac
   sqi
              library and binaries for SGI
              library and binaries for SUN sparc
   sparc
   sample
              sample program and samle data
   readme_e.txt this file
[ Environment ]
Movie Library was built under environments listed below. Please use
suitable linker which can be used under these environments.
           Intel Pentium, Windows 95, Microsoft Visual C++ (dll)
   alpha: DEC alpha, Windows NT, Microsoft Visual C++
           Macintosh, PowerPC, MetroWerks CodeWarrior (CW Pro1)
           SGI IRIX 5.3, CC
   sqi:
   sparc: SUN Solaris 2.5.1, CC
[ Usage ]
MdecBeqin() is a function which initializes Movie Library. It needs to
be called prior to any other library function call. MdecEnd() needs to
be called to clean up Movie Library. Please refer to a sample code
below.
   MdecBegin();
   for (...) {
       MdecEncode(...);
   MdecEnd();
```

Please refer to the sample program in 'sample' directory as well to see

details.

```
[ Structure and Functions ]
+ structure for O matrix
   struct DECDCTENV {
       u_char iq_y[64]; // IQ (Y): zig-zag order
       u_char iq_c[64]; // IQ (Cb,Cr): zig-zag order
       short dct[64];
                         // IDCT coef (currently not available)
   };
+ input data format
   enum Format {
       RGBformat,
       YUVformat
   };
+ initialization of Movie Library
   BOOL MdecBegin();
       // Initializes library
       // return value: TRUE if succeeded
+ termination of Movie Library
   BOOL MdecEnd();
       // Terminates library
       // return value: TRUE if succeeded
+ Store O matrix
   void MdecPutEnv(DECDCTENV *env);
       // Changes Q matrix and DCT matrix
       // DCT matrix cannot be changed with this version
+ Store default O matrix
   void MdecPutEnvDefault();
       // Sets default Q matrix
+ Get Q matrix
   void MdecGetEnv(DECDCTENV *env);
       // Get Q matrix
+ Encode (with bs size specified)
   u_long MdecEncode(
                             // image to be compressed (RGB or YUV)
       u_char *pix,
                            // image format (RGBformat or YUVformat)
       Format format,
                             // width of the image
       u short width,
                           // width of the image
       u short height,
       u long *bs.
                             // buffer for bs data
       u long bsBuffSize,
                             // buffer size for bs data (unit: long
word)
       double fullness,
                             // fullness (0.0-1.0) ... see below
                             // initial quant value (1 - 63)
       u_short initQuant,
       u_short *finalQuant
                             // final quant value retured
   );
       // Encodes one image
       // with specifying size of encoded data(bs data).
       // return value: size of encoded data (byte)
       // This function try to encode image data into the size shown
below.
               fullness * bsLimitSize <= size <= bsLimitSize
       //
+ Encode (with quantization value specified)
   u_long MdecEncode(
```