//

// endian\_fix.h

// ImageCore

//

// For OSes that use glibc < 2.9 (like RHEL5)

//

#pragma once

#ifdef \_\_APPLE\_\_

#include <libkern/OSByteOrder.h>

#define htobe16(x) OSSwapHostToBigInt16(x)

#define htole16(x) OSSwapHostToLittleInt16(x)

#define betoh16(x) OSSwapBigToHostInt16(x)

#define letoh16(x) OSSwapLittleToHostInt16(x)

#define htobe32(x) OSSwapHostToBigInt32(x)

#define htole32(x) OSSwapHostToLittleInt32(x)

#define betoh32(x) OSSwapBigToHostInt32(x)

#define letoh32(x) OSSwapLittleToHostInt32(x)

#define htobe64(x) OSSwapHostToBigInt64(x)

#define htole64(x) OSSwapHostToLittleInt64(x)

#define betoh64(x) OSSwapBigToHostInt64(x)

#define letoh64(x) OSSwapLittleToHostInt64(x)

#else

#include <endian.h>

#ifdef \_\_USE\_BSD

/\* Conversion interfaces. \*/

#include <byteswap.h>

#if \_\_BYTE\_ORDER == \_\_LITTLE\_ENDIAN

#ifndef htobe16

#define htobe16(x) \_\_bswap\_16(x)

#endif

#ifndef htole16

#define htole16(x) (x)

#endif

#ifndef betoh16

#define betoh16(x) \_\_bswap\_16(x)

#endif

#ifndef letoh16

#define letoh16(x) (x)

#endif

#ifndef htobe32

#define htobe32(x) \_\_bswap\_32(x)

#endif

#ifndef htole32

#define htole32(x) (x)

#endif

#ifndef betoh32

#define betoh32(x) \_\_bswap\_32(x)

#endif

#ifndef letoh32

#define letoh32(x) (x)

#endif

#ifndef htobe64

#define htobe64(x) \_\_bswap\_64(x)

#endif

#ifndef htole64

#define htole64(x) (x)

#endif

#ifndef betoh64

#define betoh64(x) \_\_bswap\_64(x)

#endif

#ifndef letoh64

#define letoh64(x) (x)

#endif

#else /\* \_\_BYTE\_ORDER == \_\_LITTLE\_ENDIAN \*/

#ifndef htobe16

#define htobe16(x) (x)

#endif

#ifndef htole16

#define htole16(x) \_\_bswap\_16(x)

#endif

#ifndef be16toh

#define be16toh(x) (x)

#endif

#ifndef le16toh

#define le16toh(x) \_\_bswap\_16(x)

#endif

#ifndef htobe32

#define htobe32(x) (x)

#endif

#ifndef htole32

#define htole32(x) \_\_bswap\_32(x)

#endif

#ifndef betoh32

#define betoh32(x) (x)

#endif

#ifndef letoh32

#define letoh32(x) \_\_bswap\_32(x)

#endif

#ifndef htobe64

#define htobe64(x) (x)

#endif

#ifndef htole64

#define htole64(x) \_\_bswap\_64(x)

#endif

#ifndef betoh64

#define betoh64(x) (x)

#endif

#ifndef letoh64

#define letoh64(x) \_\_bswap\_64(x)

#endif

#endif /\* \_\_BYTE\_ORDER == \_\_LITTLE\_ENDIAN \*/

#else /\* \_\_USE\_BSD \*/

#ifndef betoh16

#define betoh16 be16toh

#endif

#ifndef betoh32

#define betoh32 be32toh

#endif

#ifndef betoh64

#define betoh64 be64toh

#endif

#ifndef letoh16

#define letoh16 le16toh

#endif

#ifndef letoh32

#define letoh32 le32toh

#endif

#ifndef letoh64

#define letoh64 le64toh

#endif

#endif /\* \_\_USE\_BSD \*/

#endif /\* \_\_APPLE\_\_ \*/