

# H5LT\_OPEN\_FILE\_IMAGE

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# H5LT\_OPEN\_FILE\_IMAGE

Opens an HDF5 file image in memory.

## Procedure:

H5LT\_OPEN\_FILE\_IMAGE (buf\_ptr, buf\_size, flags)

## Signature:

```
hid_t H5LTopen_file_image( void *buf_ptr, size_t buf_size, unsigned flags )
```

## Parameters:

<i>void</i> *buf_ptr	IN: A pointer to the supplied initial image A value of <code>NULL</code> is invalid and will cause the function to fail.
<i>size_t</i> buf_size	IN: Size of the supplied buffer A value of 0 is invalid and will cause the function to fail.

*unsigned flags*

IN: Flags specifying whether to open the image read-only or read/write, whether HDF5 is to take control of the buffer, and instruction regarding releasing the buffer  
Valid values are:

H5LT\_FILE\_IMAGE\_OPEN\_RW Specifies opening the file image in read/write mode. Default without this flag: File image will be opened read-only.  
H5LT\_FILE\_IMAGE\_DONT\_COPY Specifies to not copy the provided file image buffer; the buffer will be used directly. HDF5 will release the file image when finished. Default without this flag: Copy the file image buffer and open the copied file image.  
H5LT\_FILE\_IMAGE\_DONT\_RELEASE Specifies that HDF5 is not to release the buffer when the file opened with `H5LTopen_file_image` is closed; releasing the buffer will be left to the application. Default without this flag: HDF5 will automatically release the file image buffer after the file image is closed. This flag is valid only when used with `H5LT_FILE_IMAGE_DONT_COPY`.

### Description:

#### Motivation:

H5LT\_OPEN\_FILE\_IMAGE and other elements of HDF5 are used to load an image of an HDF5 file into system memory and open that image as a regular HDF5 file. An application can then use the file without the overhead of disk I/O.

H5LT\_OPEN\_FILE\_IMAGE opens the HDF5 file image that is located in system memory at the address indicated by `buf_ptr` of size `buf_size`.  
H5LT\_OPEN\_FILE\_IMAGE opens a file image with the Core driver, `H5FD_CORE`.

The flags passed in `flags` specify whether to open the image read-only or read/write, whether HDF5 is to take control of the buffer, and instruction regarding releasing the buffer.

#### Recommended Reading:

This function is part of the file image operations feature set. It is highly recommended to study the guide “[HDF5 File Image Operations](#)” before using this feature set.

See the “See Also” section below for links to other elements of HDF5 file image operations.

### Returns:

Returns a file identifier if successful; otherwise returns a negative value.

#### Failure Modes:

H5LT\_OPEN\_FILE\_IMAGE will fail if either `buf_ptr` is `NULL` or `buf_size` equals 0 (zero).

### Example:

```
hl / test / test_file_image.c [197:198] 1.10/master H5FFV/hdf5
/* attempt to set file image in the core driver */
    file_id[i] = H5LTopen_file_image(buf_ptr[i], (size_t)buf_size[i],
input_flags[i]);
```

**History:**

Release	Change
1.8.9	C function introduced in this release.

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