

:c:type: `uv_req_t` --- Base request

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\ (node-master) (deps) (uv) (docs) (src) request.rst, line 4); [backlink](#)

Unknown interpreted text role "c:type".

`uv_req_t` is the base type for all libuv request types.

Structures are aligned so that any libuv request can be cast to `uv_req_t`. All API functions defined here work with any request type.

Data types

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Unknown directive type "c:type".

```
.. c:type:: uv_req_t
```

The base libuv request structure.

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Unknown directive type "c:type".

```
.. c:type:: uv_any_req
```

Union of all request types.

Public members

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Unknown directive type "c:member".

```
.. c:member:: void* uv_req_t.data
```

Space for user-defined arbitrary data. libuv does not use this field.

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Unknown directive type "c:member".

```
.. c:member:: uv_req_type uv_req_t.type
```

Indicated the type of request. Readonly.

```
::
```

```
typedef enum {
    UV_UNKNOWN_REQ = 0,
    UV_REQ,
    UV_CONNECT,
    UV_WRITE,
    UV_SHUTDOWN,
    UV_UDP_SEND,
    UV_FS,
    UV_WORK,
    UV_GETADDRINFO,
    UV_GETNAMEINFO,
    UV_REQ_TYPE_MAX,
} uv_req_type;
```

API

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Unknown directive type "c:macro".

```
.. c:macro:: UV_REQ_TYPE_MAP(iter_macro)
```

Macro that expands to a series of invocations of ``iter_macro`` for each of the request types. ``iter_macro`` is invoked with two arguments: the name of the ``uv_req_type`` element without the ``UV_`` prefix, and the name of the corresponding structure type without the ``uv_`` prefix and ``_t`` suffix.

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Unknown directive type "c:function".

```
.. c:function:: int uv_cancel(uv_req_t* req)
```

Cancel a pending request. Fails if the request is executing or has finished executing.

Returns 0 on success, or an error code < 0 on failure.

Only cancellation of `:c:type:`uv_fs_t``, `:c:type:`uv_getaddrinfo_t``, `:c:type:`uv_getnameinfo_t``, `:c:type:`uv_random_t`` and `:c:type:`uv_work_t`` requests is currently supported.

Cancelled requests have their callbacks invoked some time in the future. It's **not** safe to free the memory associated with the request until the callback is called.

Here is how cancellation is reported to the callback:

* A `:c:type:`uv_fs_t`` request has its `req->result` field set to ``UV_ECANCELED``.

* A `:c:type:`uv_work_t``, `:c:type:`uv_getaddrinfo_t``, `:c:type:`uv_getnameinfo_t`` or `:c:type:`uv_random_t`` request has its callback invoked with status == ``UV_ECANCELED``.

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Unknown directive type "c:function".

```
.. c:function:: size_t uv_req_size(uv_req_type type)
```

Returns the size of the given request type. Useful for FFI binding writers who don't want to know the structure layout.

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Unknown directive type "c:function".

```
.. c:function:: void* uv_req_get_data(const uv_req_t* req)
```

Returns ``req->data``.

```
.. versionadded:: 1.19.0
```

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Unknown directive type "c:function".

```
.. c:function:: void* uv_req_set_data(uv_req_t* req, void* data)
```

```
Sets `req->data` to `data`.

.. versionadded:: 1.19.0
```

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Unknown directive type "c:function".

```
.. c:function:: uv_req_type uv_req_get_type(const uv_req_t* req)

Returns `req->type`.

.. versionadded:: 1.19.0
```

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Unknown directive type "c:function".

```
.. c:function:: const char* uv_req_type_name(uv_req_type type)

Returns the name for the equivalent struct for a given request type,
e.g. `"connect"` (as in :c:type:`uv_connect_t`) for `UV_CONNECT`.

If no such request type exists, this returns `NULL`.

.. versionadded:: 1.19.0
```